CAPSTONE PHASE III INVESTIGATION REPORT

FORMER HOWE FURNITURE CORPORATION
151 WOODWARD AVENUE
NORWALK, CONNECTICUT

HRP#HOW0017.P3

March 26, 2010
(REVISED October 4, 2012)

Prepared For:

Mr. Robert Brackett
US EPA
1 Congress Street
Suite 1100 (HBT)
Boston, MA 02114-2023

Prepared By:

HRP Associates, Inc.
197 Scott Swamp Road
Farmington, CT 06032

RDMS Doc ID 109890

TABLE OF CONTENTS

SECTION **PAGE**

1.0 INTRODUCTION 1
- 1.1 Purpose 1
- 1.2 Report Organization 1
- 1.3 Site Setting and Location 2
- 1.4 Geology 2
  - 1.4.1 Regional 2
  - 1.4.2 Site 2
- 1.5 Previous Investigations 2
- 1.6 Regulatory Framework and Compliance Standards 4
  - 1.6.1 EPA Voluntary Program 4
  - 1.6.2 EPA RCRA Closure 4
  - 1.6.3 CT DEEP Transfer Act – RSRs 4

2.0 SOILS INVESTIGATION AND REMEDIATION 6
- 2.1 Background Soil Sampling 7

3.0 HYDROGEOLOGICAL INVESTIGATION 8
- 3.1 Monitoring Well Installation 8
- 3.2 Survey 8
- 3.3 Monitoring Well Sampling 8
- 3.4 Status of Groundwater Contamination 11
- 3.5 Tidal Study 11
- 3.6 Stormwater Network Mapping 12

4.0 SOIL VAPOR INVESTIGATION 13

5.0 SEDIMENT AND SURFACE WATER INVESTIGATION 14

6.0 GROUNDWATER RECLASSIFICATION AND RECEPTOR SURVEY 15

7.0 ECOLOGICAL RISK ASSESSMENT 16

8.0 PROJECT QUALITY CONTROL/QUALITY ASSURANCE 17
- 8.1 Data Usability 17

9.0 CONCEPTUAL SITE MODEL NARRATIVE 18

10.0 FINAL REMEDIES 21

TABLE OF CONTENTS

(continued)

LIST OF FIGURES

1 Site Location

2 Site Plan depicting Site Storm Sewer Network

3 Sampling Locations

4 September 2009 Groundwater Contours

5 Neighborhood Storm Water Network

6 Summary of Groundwater Quality

LIST OF TABLES

1 Conceptual Site Model

2 MW construction summary

3 2009 Groundwater Gauging Summary

4 2009 Groundwater Sampling Laboratory Results

LIST OF APPENDICES

A Technical Memoranda

B SLERA

C Laboratory Data

D Calculation of 95% UCL for ETPH

ACRONYM LIST

AOC	=	Area of Concern
Cober	=	Cober Electronics, Inc.
CSM	=	Conceptual Site Model
CT	=	Connecticut
DCA	=	Dichloroethane
DCE	=	Dichloroethylene
DEEP	=	Department of Energy and Environmental Protection
ELUR	=	Environmental Land Use Restriction
EPA	=	Environmental Protection Agency
ETPH	=	Extractable Total Petroleum Hydrocarbons
HRP	=	HRP Associates, Inc.
I/C DEC	=	Industrial/Commercial Direct Exposure Criteria
I/C VC	=	Industrial/Commercial Volatilization Criteria
LEP	=	Licensed Environmental Professional
PCE	=	Tetrachloroethylene
PMC	=	Pollutant Mobility Criteria
PRA	=	Potential Release Area
QAPP	=	Quality Assurance Project Plan
QAQC	=	Quality Assurance/Quality Control
RA	=	Release Area
RCP	=	Reasonable Confidence Protocols
RCRA	=	Resource Conservation Recovery Act
RCSA	=	Regulations of Connecticut State Agencies
RDEC	=	Residential Direct Exposure Criteria
RFI	=	RCRA Facility Investigation
RSR	=	Remediation Standard Regulations
RVC	=	Residential Volatilization Criteria
SEH	=	Significant Environmental Hazard
SLERA	=	Screening Level Ecological Risk Assessment
SV	=	Soil Vapor
SVOC	=	Semi-volatile Organic Compound
SWPC	=	Surface Water Protection Criteria
TCA	=	1,1,1-Trichloroethane

ACRONYM LIST

TCE	=	Trichloroethylene
TPH	=	Total Petroleum Hydrocarbons
UCL	=	Upper Confidence Limit
U.S.	=	United States
UST	=	Underground Storage Tank
VC	=	Volatilization Criteria
VCAP	=	Voluntary Corrective Action Program
VOC	=	Volatile Organic Compound

1.0 INTRODUCTION

1.1 Purpose

This document has been prepared to summarize environmental activities conducted at the former Howe Furniture Corp. property, located at 151 Woodward Avenue, Norwalk, Connecticut. This report also informs upon the current status of the site with respect to the Resource Conservation Recovery Act (RCRA) Voluntary Corrective Action Program (VCAP), which is overseen by the United States Environmental Protection Agency (EPA). This document was prepared at the request of EPA to satisfy the requirements of a RCRA Facility Investigation report, complete with a discussion of all investigation techniques, fate and transport of site contaminants, and a determination of the impact of contaminants on human and ecological receptors. This report also summarizes environmental activities performed at the site to comply with the Connecticut Property Transfer Act (Sections 22a-134 through 22a-134e of the Connecticut General Statutes, and as amended by Public Act 09-235 and Section 406 of Public Act 09-3).

1.2 Report Organization

This document includes information on site investigation methods, project data quality, a conceptual site model, descriptions of local environs, conclusions and recommendations and other details that relative to the work performed at the subject site throughout its developed history. An understanding of this site requires that each subset of information be considered first individually and then in the context of a site-wide picture. To facilitate understanding, this document has been designed to look at global issues that impact the site investigation and the document user's understanding of the site as a whole, as described below:

The text presented herein as Sections 1.0 through 7.0 describe the site, its history, global investigation methods and rational, site-wide issues as opposed to specific Potential Release Area/Release Area (PRA/RA) issues, and presents condensed conclusions and recommendations based upon the investigation performed. In this sense, the user can review this text and attain a broad understanding of the site history, the site's overall environmental quality, the characteristic results of the investigation and an understanding of what else needs to be done. It does not, however, describe in fine detail the results of investigations performed in each of the PRAs/RAs. Where practical and appropriate, references to previously-prepared documents have been provided to allow the reader to access more detailed discussions of historical investigations.

Technical Memorandums, attached as Appendix A, have been developed for each PRA/RA where the details of the investigation history can be found. It is our intent that each Technical Memo exist as a stand-alone document that can be reviewed independently to inform the environmental condition of the subject PRA/RA with all supporting data and rationale including circular references to site-wide issues that expand our understanding of each PRA/RA in a site-wide context. Analytical data tables for soil samples collected in each distinct PRA/RA are included within each Technical Memo. However, figures depicting all soil, soil vapor, and groundwater sampling locations are included in the main text. In this sense it is the author's intent that this document be reviewed first by reading Sections 1.0 through 7.0 and then subsequently reading the

Technical Memos in Appendix A. Documents supporting general site investigation methods and results are included as Appendices B through C.

1.3 Site Setting and Location

The subject site consists of approximately 7.0 acres of land located at 151 Woodward Avenue, Norwalk, Connecticut. The site is developed by a 117,000 square foot, single-story, L-shaped, concrete block warehouse. The site is accessed from Woodward Avenue via a shared driveway located along the northern property boundary. Parking areas are present along the eastern, western, and southern portions of the site. A grassy landscaped area is present at the front (eastern) side of the building. The site is currently occupied by Cober Electronics, Inc. (Cober), Pepperidge Farms, and several other tenants utilizing office space in the site building.

The former Howe Furniture building was constructed in stages beginning with the original structure in the 1962. Prior to construction of the building, the site consisted of a wetland area, including areas of surface water. In 1970 and 1975, additions were constructed onto the southern portion of the original structure. In 1980, an addition was added to the western portion of the site building.

The subject site is located within a mixed commercial, industrial, and residential area. A playground is located immediately to the south of the facility (upgradient to cross-gradient of the site). A commercial/industrial building is located adjacent to the north. Wetlands are present to the west and a residential area is located across Woodward Avenue to the east. More complete descriptions of the facility history and setting are provided in HRP's *Phase I Environmental Site Assessment Report for the Former Howe Furniture Facility, 151 Woodward Avenue, Norwalk, Connecticut (HRP# HOW0013.P1)* issued June 1, 1998.

1.4 Geology

1.4.1 Regional

Based on U.S. Geological Survey mapping, the subject site is underlain by Harrison Gneiss, an inter-layered, dark grey to light grey, medium-grained gneiss with strong foliation. Surficial materials at the site and surrounding area have been mapped as artificial fill.

1.4.2 Site

Based on observation of subsurface materials, the site soils consist of shallow fill material, sand, and gravel, overlying fine-grained organic-rich sediments. Wetland soils were observed throughout the subject site and exhibit a sulfur-like odor. Bedrock was encountered at the site at a depth of approximately 44 feet below grade during installation of well MW-19D in 2002.

1.5 Previous Investigations

The Howe Furniture property has been iteratively investigated in detail since the early 1990's. Additionally, HRP Associates, Inc. (HRP) coordinated regulatory compliance

including waste and wastewater management and permitting for the facility since the late 1980's until 1995, when Howe Furniture operations ceased at the site. The list below represents a list of all of environmental activities performed to investigate the soil, soil vapor, and groundwater quality at the site.

- Preliminary Assessment – Plus Final Report for Howe Furniture Corp., prepared by TRC Companies, Inc., dated June 10, 1992
- *Phase II Subsurface Investigation Report*, prepared by HRP, dated September 25, 1995
- *Phase III Subsurface Investigation Report*, prepared by HRP, dated November 22, 1995
- Summary of Investigations/Removal Activities Performed Inside the Howe Furniture Corporation Manufacturing Facility, prepared by HRP, dated June 1996
- Letter Report Regarding Soil Remediation in AOC#1 and 12, prepared by HRP, dated June 14, 1996
- Phase I Environmental Site Assessment Report, prepared by HRP, dated June 1, 1998
- *Phase II Subsurface Investigation*, prepared by HRP, dated May 27, 1999
- Environmental Indicator Forms for Migration of Contaminated Groundwater under Control (CA 750) and Human Exposures Under Control (CA 725) prepared by HRP and submitted to EPA Region I – New England, 2001.
- Former Howe Furniture Facility RFI Work Plan, prepared by HRP, dated February 13, 2002
- Environmental Condition Assessment Form, prepared by HRP, dated August 2003
- *Habitat Assessment Report*, prepared by Connecticut EcoSystems, LLC, dated October 10, 2003
- Letter to Howe regarding Focused Subsurface Soil Investigation, prepared by HRP, dated February 8, 2007
- January 2007 First Quarterly Groundwater Monitoring Event, prepared by HRP, dated March 30, 2007
- April 2007 Second Quarterly Groundwater Monitoring Event, prepared by HRP, dated May 18, 2007
- Memorandum to EPA regarding Groundwater Volatilization Criteria for 1,4-Dioxane, prepared by HRP, dated July 18, 2007

- July 2007 Third Quarterly Groundwater Monitoring Event, prepared by HRP, dated October 29, 2007

- October 2007 Fourth Quarterly Groundwater Monitoring Event, prepared by HRP, dated November 20, 2007

1.6 Regulatory Framework and Compliance Standards

1.6.1 EPA Voluntary Program

Environmental activities conducted at the site have been designed to characterize site contaminant distribution for the purposes of achieving stabilization in the context of the RCRA Voluntary Corrective Action Program (VCAP). RCRA VCAP is a self-directed approach to investigation and remediation in which EPA maintains a less day to day involvement in project design and implementation. Typically, formal review and approval of submittals to EPA are not required. However, the EPA still retains the lead regulatory oversight role for the site.

Under the RCRA VCAP, the Connecticut Remediation Standard Regulations (RSRs) are being used as performance standards for site environmental conditions.

1.6.2 EPA RCRA Closure

The site is subject to RCRA hazardous waste closure due to the usage of a hazardous materials storage area at Howe Furniture. The EPA has delegated the primary responsibility of implementing the RCRA hazardous waste program to the CT DEEP in lieu of EPA. As such, the RSRs are being used as performance standards for RCRA Closure.

In 1994, HRP submitted a *Closure Plan Part I – Facility Information and Site Characterization Work Plan* to the CT DEEP for approval. To date, approval for Closure Part I has not been received. Discussion of closure activities at the former hazardous waste storage area (RA-3) can be found in Technical Memo RA-3 in Appendix A.

1.6.3 CT DEEP Transfer Act – RSRs

The sale of Howe Furniture in 1998 added a State regulatory burden for environmental compliance. Specifically, as the result of the Transfer Act, the site is being evaluated for compliance with the CT DEEP Remedial Standard Regulations (RSRs) in the CT DEEP Licensed Environmental Professional (LEP) Verification Program pursuant to sections 22a-133v-1 through 22a-133v-8 of the Regulations of Connecticut State Agencies.

Soil

The CT DEEP has developed the RSRs (RCSA 22a-133k), which include various remediation criteria (i.e., standards or maximum contaminant levels) for soil, groundwater, and soil vapor. The applicable RSR numeric criteria for soil at the site consist of the Residential Direct Exposure Criteria (RDEC), the

Industrial/Commercial Direct Exposure Criteria (I/CDEC), and the Pollutant Mobility Criteria (PMC) for GB groundwater-classification areas.

For RSR compliance, soils must meet the DEC in the uppermost two (2) feet in paved areas or the uppermost four (4) feet in unpaved areas. Soil below those depths down to 15 feet that exceed the DEC can remain in place without the requirement of remediation provided that an Environmental Land Use Restriction (ELUR) is obtained. This applies regardless of the depth to groundwater (i.e., saturated or unsaturated soil). On industrial or commercial properties, soils exceeding the Residential DEC but not the Industrial/Commercial DEC can remain in place, but an ELUR must be obtained that would prohibit residential use of the property.

The PMC governs soil down to the seasonal-low water table in GA groundwater-classification areas and down to the seasonal-high water table in GB areas. The PMC standards were established to protect degradation of groundwater quality from contaminants leaching from soil. Environmentally isolated soils (i.e., beneath a permanent structure where not subject to drainage) that exceed the PMC (except in the case of VOCs) can be left in place provided an ELUR is obtained.

It is noted that an ELUR restricting the site to non-residential use and rendering soils beneath the existing building inaccessible and environmentally isolated is anticipated for the site.

Groundwater and Soil Vapor

Applicable RSR numeric criteria for groundwater at the site consist of the Surface Water Protection Criteria (SWPC), and the Volatilization Criteria (VC). The applicable RSR criteria for soil vapor consist of the Soil Vapor Volatilization Criteria (SV VC).

The purpose of the SWPC is to protect surface water quality. The purpose of the VC is to preclude potential migration of VOCs from groundwater into overlying structures. The CT DEEP has established a VC for both Residential and Industrial/Commercial properties. The CT DEEP proposed revisions to the 1996 VC for groundwater and soil vapor in 2003; however, these were never officially adopted to date. The CT DEEP's interim policy has been to consider the existing 1996 and proposed standards when evaluating the environmental quality and remedial requirements for properties subject to the RSRs. By regulation, the determination of Significant Environmental Hazards (SEHs) (Section 22a-6 (u) of the Connecticut General Statutes) is based on the current Volatilization Criteria standards, thus the established 1996 VC was used for comparison to this statute.

2.0 SOILS INVESTIGATION AND REMEDIATION

Fourteen release areas (RA's) and potential release areas (PRA's) relating to Howe Furniture's operations have been identified at the site, as detailed below and on Figure 2:

RA/PRA	Description
RA-1	Former 3,000-gallon underground heating oil storage tank
PRA-2	Former ignitable materials storage area
RA-3	Former hazardous materials storage area
PRA-4	Former compressed gas storage area
RA-5	Former de-scaling rinse tanks
RA-5a	Former piping trench between solder cooling water tank and de-scaling rinse tanks
PRA-6	Former silver solder cooling water tanks
PRA-7	Former 1,1,1-Trichloroethane vapor degreaser
PRA-8	Former pre-powder cleaning lines and tanks
PRA-9	Former dust/powder overspray area
PRA-10	Former powder curing/baking area
PRA-11	Former lacquer spray hood
RA-12	Former hazardous waste storage area (coincident with RA-1)
RA-13	Exterior TPH-impacted soils

Contaminants of concern for the site include volatile organic compounds including chlorinated solvents, petroleum-related compounds, and metals. Each PRA/RA has been investigated through an iterative process that included the following investigation techniques:

- Concrete chip sampling
- Soil sampling by hand sampling methods, geoprobe borings, split-spoon samples
- Field screening including ground penetrating radar, x-ray diffraction for metals, photoionization detection for volatiles, visual inspection
- Laboratory analysis
- Monitoring well installation and groundwater sampling
- Surface water and sediment sampling

A summary of the status of each PRA/RA can be found in the Conceptual Site Model Table (Table 1, attached). The full investigation history of each PRA/RA is presented in detail in Technical Memoranda, attached in Appendix A.

Please note that the 1998 Phase I ESA identified that a registered underground heating oil storage tank (UST-1) was present on the southern portion of the site from 1977 to 1987, based on a UST registration form on-file at the CT DEEP. The size, date of installation, and date of removal all coincide with the known UST located west of the site building at RA-1. No corroborating evidence of a tank on the southern portion of the site was identified in other records pertaining to the site and no site contact could verify the existence of a tank on the south side of the building. In 2002, HRP conducted a ground penetrating radar (GPR) survey to evaluate the presence of the tank along the southern portion of the site, near MW-10. The GPR survey results did not indicate the presence of an underground storage tank. It is likely that the DEEP UST registration form was filled out incorrectly and no tank was ever present along the southern portion of the site.

2.1 Background Soil Sampling

HRP collected soil samples from non-release areas during installation of monitoring wells MW-14 and MW-15 in 1999. These wells are located in the grassy area along the eastern boundary of the site, where no known or suspected releases have occurred. Soil samples were collected from MW-14 and MW-15 from 2-4 feet below grade and analyzed for 8 RCRA metals by mass analysis, TPH by EPA Method 418.1, and VOCs by EPA Method 8021B.

Low levels of arsenic (2.5 mg/kg), barium (27 to 52 mg/kg), chromium (8.5 to 15.5 mg/kg), lead (1.3 to 14.5 mg/kg), and mercury (0.04 mg/kg) were detected in background soils. All background soils results were below applicable RSR criteria.

No ETPH or VOCs were detected in background soils.

3.0 HYDROGEOLOGICAL INVESTIGATION

3.1 Monitoring Well Installation

Groundwater quality at the site has been periodically monitored via permanent monitoring wells since 1995. Six monitoring wells (BMW-1 through BMW-5, and BMW-7) were initially installed in 1995 in RA-1/12 prior to soil remediation. These wells were reported to have been destroyed during remedial activities. However, during site investigations in 1999 and 2002, three wells in the remedial area were found to be intact, along with another well located east of the building. The wells remaining from the 1995 investigation were renamed MW-16, MW-17, MW-18, and MW-20.

Fifteen monitoring wells (MW-1 through MW-15) were installed on the subject site in 1999 to evaluate groundwater quality in areas with a high potential for a liquid release, where elevated VOCs were detected in soil vapor, and around the exterior of the site building for upgradient wells. During installation of monitoring wells, site soil was described as sand overlying swampy organic-rich deposits at depth.

Well pair MW-19M and MW-19D were installed in 2002 to evaluate the vertical extent of VOC contamination identified in groundwater. In 2006, wells MW-101 and MW-102 were installed along the northern property line to evaluate potential off-site impacts. It is also noted that one well, referred to as "MW-By Others" has been sampled during recent groundwater monitoring events. This well is located in the right-of-way north of the subject property and is presumed to have been installed by the owner of adjacent property to the north (145 Woodward Avenue) to evaluate releases from that industrial site.

In 2009, HRP installed wells MW-103, MW-104, and MW-105 to evaluate the potential for off-site migration of groundwater contaminants. Well MW-105 was installed on the adjacent parcel to the east (145 Woodward Avenue).

All monitoring wells present on the subject site and used to evaluate the site and area groundwater quality were installed in the overburden aquifer. No impacts to the underlying bedrock aquifer are suspected based on testing of the overlying unconsolidated aquifer, and as such, no bedrock wells have been installed at the site. Table 2 summarizes the construction, status, and survey data for all wells used to evaluate groundwater quality.

3.2 Survey

All existing groundwater monitoring wells at the Howe Furniture site have been surveyed relative to mean sea level by a licensed surveyor. Table 2 summarizes the construction and survey data for all wells used to evaluate groundwater quality.

3.3 Monitoring Well Sampling

HRP has conducted groundwater sampling events in August 1995, February and March 1999, August and December 2002, March and August 2006, quarterly in 2007, and a single event in the fall of 2009. In accordance with the requirements of the CT DEEP Transfer Act and other applicable regulations, site groundwater monitoring wells were sampled for four quarters of RSR compliance monitoring in January, April, July, and

October 2007. During the 2007 sampling events, the groundwater was analyzed for multiple aquifer parameters to fully characterize groundwater chemistry, including the following:

- pH, specific conductivity, turbidity, dissolved oxygen measured in the field
- VOCs by EPA Method 8260
- Semi-volatile organic compounds (SVOCs) by EPA Method 8270
- Eight RCRA metals plus copper, nickel, and zinc (select wells)
- ETPH
- fluoride, boron, chloride and manganese

During the fall of 2009, monitoring wells were sampled for analysis for VOCs and metals only. During this monitoring event, arsenic concentrations were detected in monitoring wells MW-2, MW-8, MW-9, MW-10, MW-15, MW-16, and MW-17. According to the laboratory analytical report, the detection limits for arsenic during this sampling event were above the SWPC standard of 4 ppb. However, it should be noted that the September 2009 sampling event was not conducted to demonstrate numeric compliance with RSR criteria. Previous sampling events conducted in 2007 provided a demonstration that groundwater contaminants were stable or decreasing. The September 2009 groundwater sampling event was conducted specifically at the direction of the EPA for the purpose of providing context for the sampling of two new wells within the Right-of-Way. The purpose of conducting a synoptic site-wide sampling event was simply to have a temporal basis of comparison for the data from the new wells.

An on-site groundwater "plume" of contaminants has never been shown to exist. There have, however, been detections of several contaminants that were identified in various concentrations across the site that may be attributed to historical site conditions. Please note that the sampling results for the referenced years show decreasing concentrations of virtually all noted contaminants. Figure 6 details the results of the sampling events that occurred in 2007 and 2009.

Metals

Metals have historically been detected in groundwater at the site, including arsenic, lead, cadmium, copper, mercury and zinc. The levels at which metals are being detected in the wells have been continuously decreasing since the 2002 sampling event. Arsenic is the only metal consistently detected above the SWPC; however, tidal studies conducted at the site have demonstrated that there is no net discharge to the local wetlands, and therefore, the SWPC do not apply. Arsenic is not known or reported to have been used in the former on-site processes and has been detected in background soil samples collected at the site. As discussed below, arsenic is suspected to be attributable to the historical placement of fill on the site.

Arsenic has not been identified as a raw material or waste constituent at the site by any of the current or former site occupants. Arsenic is a known common naturally-occurring metal that frequently accumulates at elevated levels in both marsh environments and in "fill" areas. The former Howe Furniture facility lies within a former marsh area that was subsequently filled prior to construction and development of the building. As shown on Figure 6, the detections of arsenic are widely distributed, appear heterogeneous when compared to other metals and compounds identified in soil, and are sporadic in occurrence. The

sporadic and widespread-nature of the arsenic is indicative of uncontrolled or uneven distribution of fill material from various sources brought to the site prior to site development. As stated above, an on-site groundwater "plume" of contaminants has never been shown to exist. Instead, the arsenic in the fill material appears to be chemically dissolving at varying rates throughout the site as indicated by the varying concentrations throughout the site. Factors that may affect arsenic dissolution rates are the presence/absence of vegetation or buildings and subsurface characteristics such as pH, dissolved oxygen (DO), and oxidation reduction potential (ORP) levels[1]. In addition, the arsenic concentrations do not appear to be associated with specific AOCs or specific portions of the site. This suggests that one individual release source area or AOC is not the cause of the arsenic contamination. Based upon the site-specific information, the arsenic is suspected to be leaching from fill or marsh materials underlying the entire surrounding area.

The CT DEEP has unofficially acknowledged exceeding arsenic concentrations detected in subsurface materials, as presented at the Howe Furniture site, as a potential background condition observed throughout areas of Connecticut. Mr. William Wareham of the CT DEEP was contacted for comment on the CT DEEP's interpretation of arsenic as a background condition, specifically for this site, but was unavailable. A formal document or statement from the CT DEEP acknowledging high arsenic concentrations as a Connecticut background condition is anticipated to be publicly released by 2013.

VOCs

The initial groundwater sampling event at the subject site was conducted prior to soil remediation for petroleum in RA-1/RA-12 in 1995. At that time, PCE, TCE, and trans1,2-DCE were identified in groundwater in the remediation area. PCE and its breakdown products are not specifically known to have been used on the property, and their detections were not thought to originate from the petroleum remediation area. Because the site is located in an industrial area, it is possible that VOC contamination is related to an area-wide problem. During sampling at the site in 1995 and 1999, TCE was identified in groundwater at concentrations up to 11 ppb (wells B-2MW, MW-11, and MW-10). Laboratory results from the 2002 sampling event shows that TCE decreased to below 5 ppb. TCE has not been detected above RSR standards in site groundwater since 2002. Vinyl chloride, a breakdown product of PCE and TCE, was initially detected above the proposed RVC and ICVC in wells MW-19M and MW-19D in 2002. During the four quarterly sampling events conducted in 2007, vinyl chloride has only been detected above standard in well MW-ByOthers, located in the right-of-way north of the Howe property. That well is believed to have been installed by the neighboring industrial property owner to evaluate releases emanating from that site (145 Woodward Avenue). Subsequent installation of additional wells in the right-of-way (MW-101, MW-102, MW-103, MW-104) and on the adjacent property (MW-105) indicate that vinyl chloride concentrations are decreasing, and are limited to the Howe Furniture property. Detections of vinyl chloride have exceeded the proposed 2003 Residential Volatilization Criteria (Res VC) in wells MW-ByOthers, MW-103, and MW-104; however, because an ELUR restricting the site to Industrial/Commercial is being implemented, compliance with the Res VC is not required. Additionally, the wells with vinyl chloride impacts are located within a right-of-way allowing

1 "Surface Structures and Stability of Arsenic(III) on Goethite: Spectroscopic Evidence for Inner-sphere Complexes." Manning , B.A., Fendorf, S.E. and Goldberg S. Environmental Science and Technology 34, p.2383-2388, 1998.

access to a rear parcel, and as such, no exposure pathway exists for vapor intrusion as no buildings may be constructed in this area. No vinyl chloride was detected in the offsite well MW-105 installed at 145 Woodward Avenue.

ETPH

Groundwater in RA-1/RA-12 has been sampled for ETPH to monitor the effectiveness of soil remediation conducted in 1995. ETPH has been detected only one time (April 2007) in the wells located in and downgradient of the soil remediation area since March 2006, thus confirming that the excavations removed the contamination, stemming migration of ETPH into the adjacent tidal wetland. Over time, the concentrations of ETPH across the site have either decreased or remained at consistently low levels. It should be noted that there is no clean up standard for ETPH in groundwater in a GB area.

3.4 Status of Groundwater Contamination

Contaminants detected in site groundwater are likely the result of historical site conditions or historical off-site pollution from the surrounding industrial properties. The Howe Furniture facility closed in 1995. While it was operational, the site was involved in manufacturing processes and generated hazardous or regulated wastes such as solvents, waste oils and various other solutions that might have contained dissolved heavy metals. Since these processes have not been present on the site for over a decade, they are no longer a source of contamination to the site groundwater.

Affected groundwater is expected to remain within the horizontal and vertical dimensions of the existing affected groundwater area based upon the results of groundwater testing, on-site remediation that has taken place, and the fact that industrial processes utilizing hazardous materials ceased at the site in 1995. In reports dated June 1996, HRP described soil excavation in RA-1/RA-12 and RA-5. HRP removed TPH contaminated soil from RA-1/RA-12, thus reducing the amount of impacted soil from the westernmost portion of the subject site. Additionally, HRP removed metals contaminated soil from RA-5, reducing the amount of impacted soil located beneath the site facility. Therefore, the potential for migration of constituents to the groundwater from these two soil release areas has been mitigated. In 2001, HRP submitted Environmental Indicator Forms for Migration of Contaminated Groundwater under Control (CA 750) and Human Exposures Under Control (CA 725) to EPA Region I – New England. EI form CA 725 and CA 750 were accepted and approved by EPA on December 21, 2007.

3.5 Tidal Study

The groundwater flow direction at the subject site is variable due to the tidal influence of nearby Norwalk Harbor. The site is located proximal to Norwalk Harbor to the east and south, and to a tidally-influenced wetland to the west. Therefore, groundwater elevation monitoring was conducted to determine the impact, if any, of tidal fluctuations during the 2002 RCRA Facility Investigation (RFI) conducted by HRP. Three geographically appropriate wells (MW-16, MW-17, and MW-19M) were monitored over a 48-hour period using In-Situ Minitrolls. The Minitrolls, which are 0.72-inches in diameter, have factory-calibrated internal data loggers to record water level fluctuations. The resulting groundwater elevation data from the Minitrolls was plotted against time and correlated with

the local tidal data. The data reveals that the site groundwater levels do appear to be tidally influenced on the western portion of the site, and potentially influenced on the eastern portion of the site.

It was determined that the overall site groundwater flow direction diverges to the northeast and the southeast, based on tidal fluctuations. The nearest surface water body to the site in either of these directions is Norwalk Harbor. However, due to the geographic distance, the industrial nature of the properties between the subject site and the harbor, and the tidal flux of the harbor, it is likely that little-to-no net transport of groundwater, and/or significant net impact occurs between the site and the harbor. Additionally, tidal flux on the western portion of the site appears to provide little-to-no net transport of contaminated groundwater between the site and adjacent wetlands. Figure 4 depicts the most recent groundwater elevations measured in September 2009.

Data collected during the Tidal Impact Study is included in the 2001 Environmental Indicator Forms for Migration of Contaminated Groundwater under Control (CA 750) and Human Exposures Under Control (CA 725).

3.6 Stormwater Network Mapping

In 2009, a licensed surveyor performed a survey of the site's drainage features to evaluate if the stormwater network could be acting as a preferential pathway for groundwater migration. The top-of-frame and bottom elevations of each drainage structure, as well as the invert elevations of each drainage pipe were measured. The invert elevations were used to determine the drainage direction of each drainage pipe. The diameter and construction of each drainage pipe were recorded to determine the potential pipe bedding which will be determined based upon common engineering practices.

Storm sewer profiles of the facility's drainage system, including cross-sections depicting relative elevations of the groundwater table are depicted on Figure 5. The profiles indicate the depth of the drainage structures is generally above the elevation of the groundwater table, indicating that a preferred pathway for groundwater contamination through the storm drain network is not likely.

Additionally, all available mapping of the municipal storm sewer network was reviewed at the Norwalk Engineering Department. Based on that mapping, the storm sewer runs along Woodward Avenue and drains to the Norwalk Harbor to the southeast. No storm sewer network is present in the residential neighborhood located across Woodward Avenue to the east.

4.0 SOIL VAPOR INVESTIGATION

Collection of 45 soil vapor samples from various locations throughout the site building occurred in 1999. The vapor survey was designed to address the historical known or suspected waste and chemical storage areas and included transects across previously exterior portions of the original building structure. Soil vapor samples were collected into glass thieves and immediately analyzed in the field using a gas chromatograph. Concentrations of toluene, trichloroethane (TCA), xylenes, tetrachlorethylene (PCE), trichloroethylene (TCE), 1,2-Dichloroethane (12DCA), and ethylbenzene were detected in 14 of the 45 vapor samples, generally below 100 parts per billion (ppb), in a sporadic distribution. Only two vapor points had elevated volatile organic compounds (VOCs), specifically toluene (up to 480 ppb) and TCA (up to 202 ppb) located in the west-central portion of the site building near MW-2. No known or suspected hazardous materials or waste storage area is present in that area. All VOC concentrations were below RSR numeric criteria for soil vapor, although the results are not strictly comparable to the RSRs because the samples were analyzed in the field and not at a certified laboratory.

Soil samples were collected in the area of the elevated soil vapor points during installation of well MW-2; however, no VOCs were identified in soil. Trace concentrations of TCA were identified in groundwater in MW-2 during the 1999 sampling event, but not above the Volatilization Criteria. No known sources of VOC contamination in soil have been identified that would be indicative of a release of product or pose a potential risk to indoor air quality. Additional details regarding soil vapor sampling can be found in the Phase II Subsurface Investigation Report, prepared by HRP, dated May 27, 1999.

5.0 SEDIMENT AND SURFACE WATER INVESTIGATION

In 2002, a habitat assessment was conducted in order to determine whether or not the wetland was being negatively impacted by the groundwater coming from the former Howe Furniture facility. The wetland was described as having dense vegetation in the east, and a salt marsh community in the west. An assortment of debris, including cobbles, wood, metal, glass and plastic, was located in the easterly limit of the wetland. Additionally, linear ditches had been dug in the marsh, presumably for mosquito control. Water was noted to have been draining out of the marsh, through the ditches during low tide. It was noted that the ditches in the marsh drain to a tidal creek that drains to Village Creek and eventually to Long Island Sound to the south. The marsh is bordered on the north, east and west by industrial facilities.

The CT DEEP Natural Diversity Database contained no record of any State or Federally listed species in or adjacent to the on-site wetland. Most of the wildlife species observed are commonly found in developed and rural landscapes. One exception was a great egret (*Adrea albus*) that was identified far off-site during the inspection. The CT DEEP lists this species as a Threatened Species. It was the inspector's professional opinion that this species would not utilize the on-site portion of the marsh due to the heavily industrialized surrounding properties. It was also the inspector's professional opinion that since no changes in the storm water drainage patterns on the subject site were anticipated, there would be no wetland impacts due to storm water runoff. Additionally, since there is little-to-no net transport of groundwater between the subject site and the wetland, and none of the wells located proximal to the wetland show significant detections of contaminants, it can be assumed that any groundwater that is being exchanged with the wetland is not posing a risk to wetland receptors.

6.0 GROUNDWATER RECLASSIFICATION AND RECEPTOR SURVEY

A well receptor survey was conducted in 2004 to inform upon the appropriateness of a groundwater quality reclassification of the subject site area. All nearby residences and commercial/industrial facilities were found to be connected to the municipal drinking water supply. In 2006, an application for a groundwater reclassification from GA to GB was accepted by CT DEEP, thus subjecting the site to compliance with the GB RSR standards.

7.0 ECOLOGICAL RISK ASSESSMENT

In July 2009, Exponent, Inc. performed a Screening Level Ecological Risk Assessment (SLERA) at the site to assess the potential risk to the wetland environment adjacent to the site. It is noted that the metals data provided to Exponent, Inc. for the two analyzed sediment samples are from leachate analyses and were not appropriate for potential ecological risk screening associated with metals in sediment. Exponent, Inc. identified this lack of appropriate data as a data gap. However, including this data gap, Exponent, Inc. concluded that although the potential ecological risk from metals in sediment could not be directly evaluated, the reported concentrations of metals in groundwater suggest that transport from groundwater to sediment is not a significant pathway.

The two sediment samples presented in the SLERA do not show exceedances of VOC and SVOC concentrations. One of the samples was not collected directly downgradient of the site and both sediment sample locations are subject to area-wide flooding, which may be impacted by the numerous nearby industrial/commercial sites which surround the wetland area. Also, collected data in the area of the wetland shows no significant concentrations of metals or VOCs which indicates that there is no source or route for contaminant migration to the wetlands.

In addition, petroleum contaminated soils located in the areas of a former 3,000-gallon fuel oil AST (RA-1) and a former hazardous waste storage area (RA-12) were removed, replaced with clean fill, and paved. Because of these actions, no current stormwater runoff migration pathway from any remaining potentially contaminated soils to the wetland area exists. No contaminants, with the exception of a one-time detection of arsenic, have been detected in groundwater near the western wetland area.

Based on the results of the SLERA, HRP concludes that little to no risk to wetland receptors is likely from VOCs, SVOCs, TPH and metals in sediments and groundwater and that transport from groundwater to sediment is not a significant pathway. As such, it does not appear that a significant ecological risk is present concerning the adjacent wetland environment. A copy of the SLERA has been included as Appendix B.

8.0 PROJECT QUALITY CONTROL/QUALITY ASSURANCE

All investigation activities conducted at the subject site from 2002 to 2007 were conducted in accordance with the EPA-approved Quality Management Plan outlined in Section 5.0 of the *Former Howe Furniture Facility RFI Work Plan*, prepared by HRP, dated February 13, 2002. This Quality Management Plan included Tier II data validation by independent laboratory data validators, as well as clearly defined data usability goals and guidelines. Tier II validated data is available for review by request.

In 2007, the CT DEEP instituted the use of Reasonable Confidence Protocols (RCP) to standardize laboratory data quality procedures. HRP transitioned out of strict conformance with the 2002 QAPP to accommodate updated methodologies for sample collection and analysis which were required by CT DEP. All data collected at the subject site since 2007 has conformed to the RCP.

In 2009, HRP submitted to EPA a Site-Specific Quality Assurance Project Plan (QAPP) outlining all data quality measures required for investigations and remediation at the site. All data collected from 2007 to the present has conformed with the 2009 QAPP, although the QAPP was only formally submitted to EPA in 2009.

8.1 Data Usability

Soil data collected to date has been utilized to evaluate the presence of contamination and the degree and extent of known contamination. Over time, many release areas have been sampled iteratively over several years, thus amassing a database of laboratory data that serves to confirm historical results. In this way, although historical data may not have been collected under current guidelines, more recent data often exists that was collected under current rules which confirms historical data.

Soil vapor data was historically collected as a screening tool to evaluate potential sources of VOCs in soil. Soil vapor data collected at that time was determined to be suitable for the purposes of screening.

Groundwater samples have been collected over time to evaluate contaminant trends. Recent laboratory data (2007 to the present) has conformed with applicable CT DEEP sampling and analysis protocols.

Groundwater sampling activities were conducted in September 2009 at the request of EPA to provide additional context or temporal basis of comparison for the data of two newly installed monitoring wells (MW-103 and MW-104) within the Right-Of-Way. Laboratory results from the September 2009 sampling event included minimum detection limits for arsenic and lead that were higher than the default SWPC for these metals. As a result, the samples that were non-detect for arsenic and/or lead cannot be used to demonstrate compliance with the default SWPC. However, it is noted that sampling activities conducted in 2009 were not performed to demonstrate compliance with RSR criteria, but to provide additional information requested by EPA. As such, the 2009 sample results are deemed usable for their intended purpose. Groundwater compliance monitoring was performed over four consecutive quarters in 2007 and demonstrated that groundwater contaminants were stable or decreasing at the site.

9.0 CONCEPTUAL SITE MODEL NARRATIVE

The site occupies approximately 7.0 acres of land developed with a single concrete block building, and is located in a mixed industrial/commercial/ residential area. The subject site operated as a furniture manufacturing facility from the 1960's through 1995. The former Howe Furniture building was constructed in stages beginning with the original structure in 1962. Prior to construction of the building, the site consisted of a wetland area, including areas of surface water. Construction of site structures followed filling of the wetland area with material of unknown origin. In 1970 and 1975, additions were constructed onto the southern portion of the original structure. In 1980, an addition was added to the western portion of the site building. Following cessation of Howe Furniture operations the building was subdivided and leased to several commercial businesses. Primary tenants at the site since 1995 have included Pepperidge Farm warehousing, Cober Electronics light electronics assembly, the U.S. Postal Service, and various office tenants. Operations since 1995 have not been environmentally significant.

Howe Furniture operated as a manufacturer of wood and metal office and school furniture during its occupancy of the site. In relation to the operation a total of thirteen potential and known release areas have been identified as follows:

- A 3,000-gallon underground heating oil storage tank
- An ignitable materials storage area
- A hazardous materials storage area
- A compressed gas storage area
- De-scaling rinse tanks
- Piping trench between solder cooling water tank and de-scaling rinse tanks
- Silver solder cooling water tanks
- A 1,1,1-Trichloroethane vapor degreaser
- Pre-powder cleaning lines and tanks
- A dust/powder overspray area
- Powder curing/baking area
- A lacquer spray hood
- A hazardous waste storage area (coincident with the UST)
- Exterior TPH-impacted soils

Release mechanisms at the majority of the identified areas of concern involve potential loss and impacts to surface and near surface soils and materials (i.e. concrete), primarily inside the site building. Only a release from the former heating oil UST had the potential to impact deeper soils. A summary of the status of each PRA/RA is contained in the Conceptual Site Model Table (Table 1, attached), which includes contaminants of concern, investigation locations, techniques, and results.

Each of the release areas identified at the site has been directly evaluated through a program of iterative investigation including Phase I, Phase II and Phase III and Phase III Supplemental in accordance with best industry practice, in consultation with EPA and consistent with the CT LEP program. In addition, a conceptual site model was developed in accordance with CT DEEP Site Characterization Guidance Document (final version dated September 2007, and utilized in draft form from June 2000 to September 2007). All soil contamination identified at the site was limited to surface or near-surface soils and was primarily petroleum and metals dominated. Soil exceeding the RSR Industrial/Commercial standards was removed during remedial activities conducted at the site in 1995. Note: RSR standards were promulgated in January 2006; however draft

standards were published prior to promulgation and were used for comparison during the 1995 investigations and remediation. The draft standards were consistent with the promulgated 1995 standards.

At present, remaining soil contamination at the site is limited to low levels of metals and petroleum below RSR criteria or under buildings. Metals contamination, dominated by arsenic, is pervasive at low levels and associated with the site fill and not Howe Furniture operations. Potential exposure risks associated with the remaining limited and shallow soil contamination on the site are extremely small given that the all of said contamination is under buildings or is beneath pavement and exists at comparatively low concentrations. Contamination not beneath buildings or well-maintained pavement could become airborne and increase the risk of dermal contact or ingestion, but the number of locations where this potential exists is very small. Left in place, it is not foreseeable that any of the soil contamination, all of which is non-volatile, will migrate or degrade environmental quality further. Currently, all existing soil contamination can be addressed and brought into compliance with the RSR by administrative techniques (i.e. ELUR to render soils beneath the building inaccessible and environmentally isolated, ELUR to limit the site to Industrial/Commercial use, and calculation of the 95% Upper Confidence Limit). These techniques will effectively protect against any unacceptable exposure via dermal contact or inhalation of contaminated soils at the site.

Groundwater contamination with metals, ETPH, and VOCs at low levels is present at the subject site as well. Only arsenic and vinyl chloride have been consistently detected at concentrations in excess of RSR criteria. As indicated, any remaining soil contamination exists at low levels or beneath structures and as such does not constitute a continuing source of pollution to groundwater. It should be noted that groundwater at the site is very shallow and has been found to be tidally influenced. As a result, the downgradient direction of groundwater flow varies and groundwater may appear to discharge to the adjacent wetland to the west or towards the Norwalk Harbor to the east, depending on the tides. Based on a 2002 tidal impact study, the tidal flux on the western portion of the site appears to provide little-to-no net transport of contaminated groundwater between the site and adjacent wetlands, nor is there significant transport of groundwater between the site and harbor.

A wetland habitat assessment was conducted in 2002 which did not identify any known sensitive receptors in the wetland. In fact, the assessment indicated that the wetland had been historically degraded by the significant industrial development in the surrounding area. Storm water outfalls from the municipal storm sewer along Meadow Street, on the eastern side of the wetland, discharge directly to the wetland, along with numerous private storm drains on the various industrial properties in the area. In 1995, direct evaluation of wetland soils adjacent to the site was conducted to confirm that historical site activities have not significantly contributed to degradation of the wetland. No indications of significant impact were identified in wetland soils (i.e. no exceedances of RSR numeric criteria). Currently, there are no exceedances of the SWPC for any compounds except arsenic in site groundwater, which indicates that no ongoing impacts to the wetlands are occurring. Additionally, comparison of arsenic concentrations in groundwater to the chronic Aquatic Life Criteria demonstrates full compliance with that standard, which is an appropriate comparison for groundwater that discharges to a wetland, the worst-case scenario for the Howe Furniture site. A Screening Level Ecological Risk Assessment conducted in 2009 concluded that no risk to wetland receptors is likely from VOCs, SVOCs, TPH and metals in sediments and groundwater and that transport from

groundwater to sediment is not a significant pathway for environmental contaminants. As such, it does not appear that a significant ecological risk is present concerning the adjacent wetland environment.

The only current exceedance of VOCs in groundwater at the site is for vinyl chloride in wells MW-ByOthers, MW-103, and MW-104 located in the right-of-way north of the site. The concentrations of vinyl chloride are slightly above the proposed RVC, which will not apply to the site per the ELUR restricting the site to non-commercial use. Groundwater at the site is currently classified as GB and no known drinking water wells are present in the vicinity. As evidenced by 2004 receptor survey, the closest residential structures to the affected wells are located more than 50 feet to the east, across Woodward Avenue. It should be noted that wells MW-15 and MW-101, located between MW-By Others and the nearby residences, do not have detectable levels of vinyl chloride. Well MW-105, installed at the adjacent industrial property, does not contain detectable vinyl chloride.

At the request of EPA, HRP calculated risk-based standards for 1,4-dioxane, a VOC sporadically detected at low concentrations in groundwater at the site and commonly associated with use of 1,1,1-Trichloroethane. Note that there is currently no published RSR standard for 1,4-dioxane. HRP used the revised Johnson and Ettinger Model incorporating diffusion and advection (described in the March 2003 *Proposed Revisions-Connecticut's Remediation Standard Regulations Volatilization Criteria* by CT DEEP), to calculate volatilization criteria for 1,4-dioxane in both the residential and industrial/commercial exposure scenarios. Based on those calculations, the detections of 1,4-dioxane in groundwater at the site do not pose a volatilization risk.

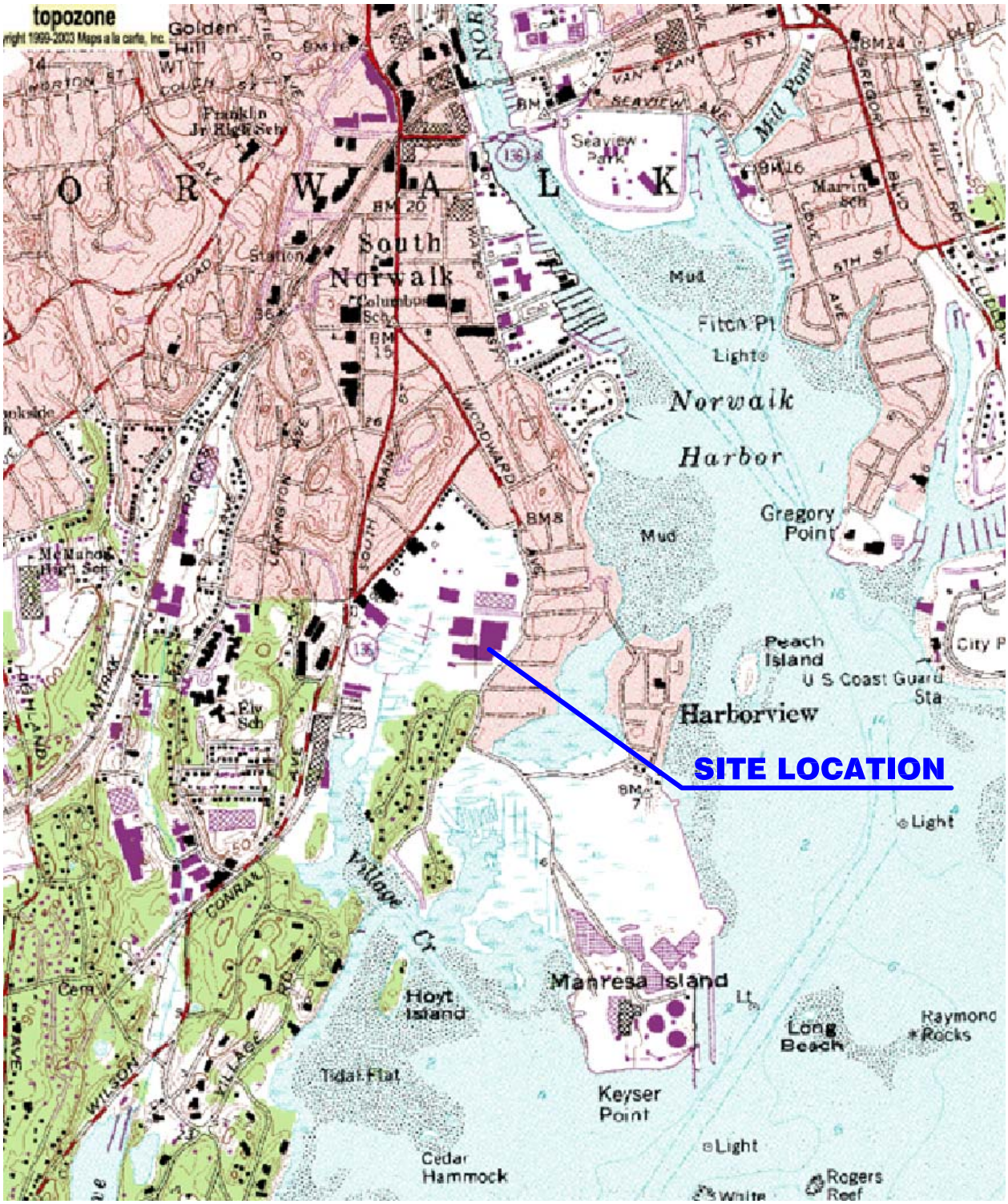
A review of Norwalk Municipal Storm Sewer mapping indicates that a network of storm drains located in the street along Woodward Avenue discharges to Norwalk Harbor via a single outfall located south of the subject site. The residential streets east of Woodward Avenue are not serviced by the municipal storm sewer, leaving storm water to discharge via overland flow. This is important because if the storm sewer network were acting as a preferential pathway for groundwater flow, then site groundwater would not flow into the residential neighborhood located immediately west of the site along Woodward Avenue. Instead, the groundwater may be directed along the gravel trenching of the storm water system directly to Norwalk Harbor, bypassing the residences and thus limiting any potential for off-gassing of VOCs from groundwater into residential structures.

10.0 FINAL REMEDIES

Based upon review of all investigations and remediation conducted at the site to date, the following final remedies conducted by HRP prepare the site for verification by a licensed environmental professional (LEP):

- Preparation and submittal of an ELUR to restrict the site to non-residential use, and to prohibit disturbance of soils beneath the site building and prohibit demolition of the building. These land use restrictions shall act as the final remedy to 1) bring soils beneath the building slab into compliance with the CT DEEP DEC and PMC by rendering soils inaccessible and environmentally isolated and 2) bring soil and groundwater contamination above the residential criteria, but below the industrial/commercial criteria into compliance with the RSR. To date, subordination agreements have not yet been received from participating parties.
- Soil excavation and off-site disposal was the chosen remedy to bring soils in exceedance of TPH in RA-1 in 1996.
- Reclassification of the groundwater quality from GA to GB (approved in 2004).
- Calculation of 95% UCL for ETPH contamination in soil in RA-2 (prepared September 2012 and included as Appendix D).
- Exceedances of the default numeric SWPC for arsenic in groundwater will be further addressed in the LEP Verification report by explaining the tidal influence on groundwater flow, with no net discharge to surface water. As a result of this, the SWPC do not apply to the site. Additionally, comparison of arsenic concentrations in groundwater to the chronic Aquatic Life Criteria of the Water Quality standards indicates no exposure risk for aquatic life in the adjacent wetland, in the worst case scenario wherein groundwater is assumed to discharge directly to the wetland.

FIGURES



0 0.3 0.6 0.9 1.2 1.5 km

0 0.2 0.4 0.6 0.8 1 mi

UTM 18 633072E 4549186N (NAD27)

USGS Norwalk South (CT,NY) Quadrangle

Projection is UTM Zone 18 NAD83 Datum

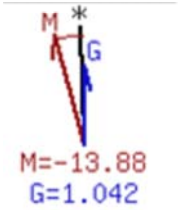
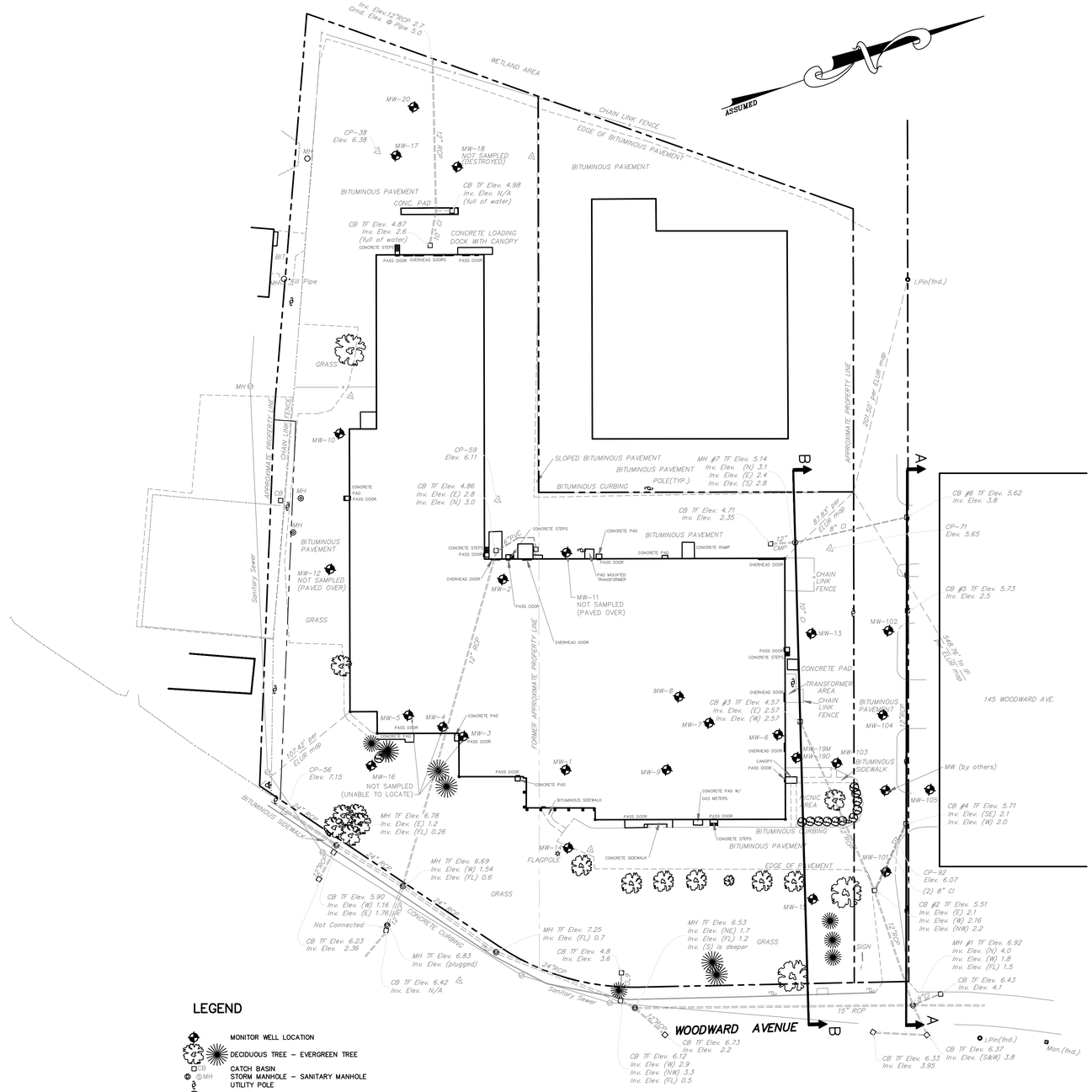


FIGURE 1
SUBJECT SITE
151 WOODWARD AVE.
NORWALK, CT
HRP# HOW0017.P3

J:\H\HOWEH - MR HAROLD HOWE, JR\151 WOODWARD AVE, NORWALK, CT\HOW0017P3\CAD\SITE LOCATION.dwg, without site border, 3/16/2010 12:20:18 PM, Adobe P



LEGEND

- MONITOR WELL LOCATION
- DECIDUOUS TREE – EVERGREEN TREE
- CB — CATCH BASIN
- MH — STORM MANHOLE – SANITARY MANHOLE
- UTILITY POLE
- SHRUB
- SCP — SURVEY CONTROL POINT
- RCP — REINFORCED CONCRETE PIPE
- PVC — POLYVYNAL CHLORIDE PIPE
- CI — CAST IRON PIPE
- CMP — CORRIGATED METAL PIPE

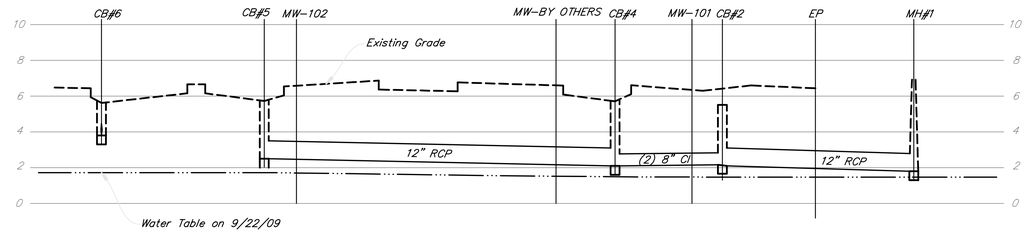
PLAN VIEW

GRAPHIC SCALE

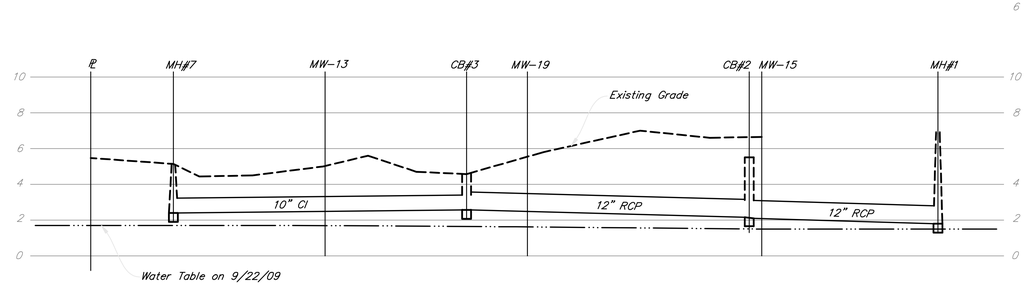
50 0 25 50 100 200

(IN FEET)
1 inch = 50 ft.

NOTES:
1.) ELEVATIONS REFER TO NORTH AMERICAN DATUM 1983 (NAD83).



SECTION A–A



SECTION B–B

CROSS SECTIONS

1" = 40'
40 0 20 40 80
HORIZONTAL SCALE IN FEET

1" = 4'
4 0 2 4 8
VERTICAL SCALE IN FEET

SITE PLAN DEPICTING STORM SEWER SYSTEM

FORMER HOWE FURNITURE CORPORATION

151 WOODWARD AVENUE
NORWALK, CONNECTICUT

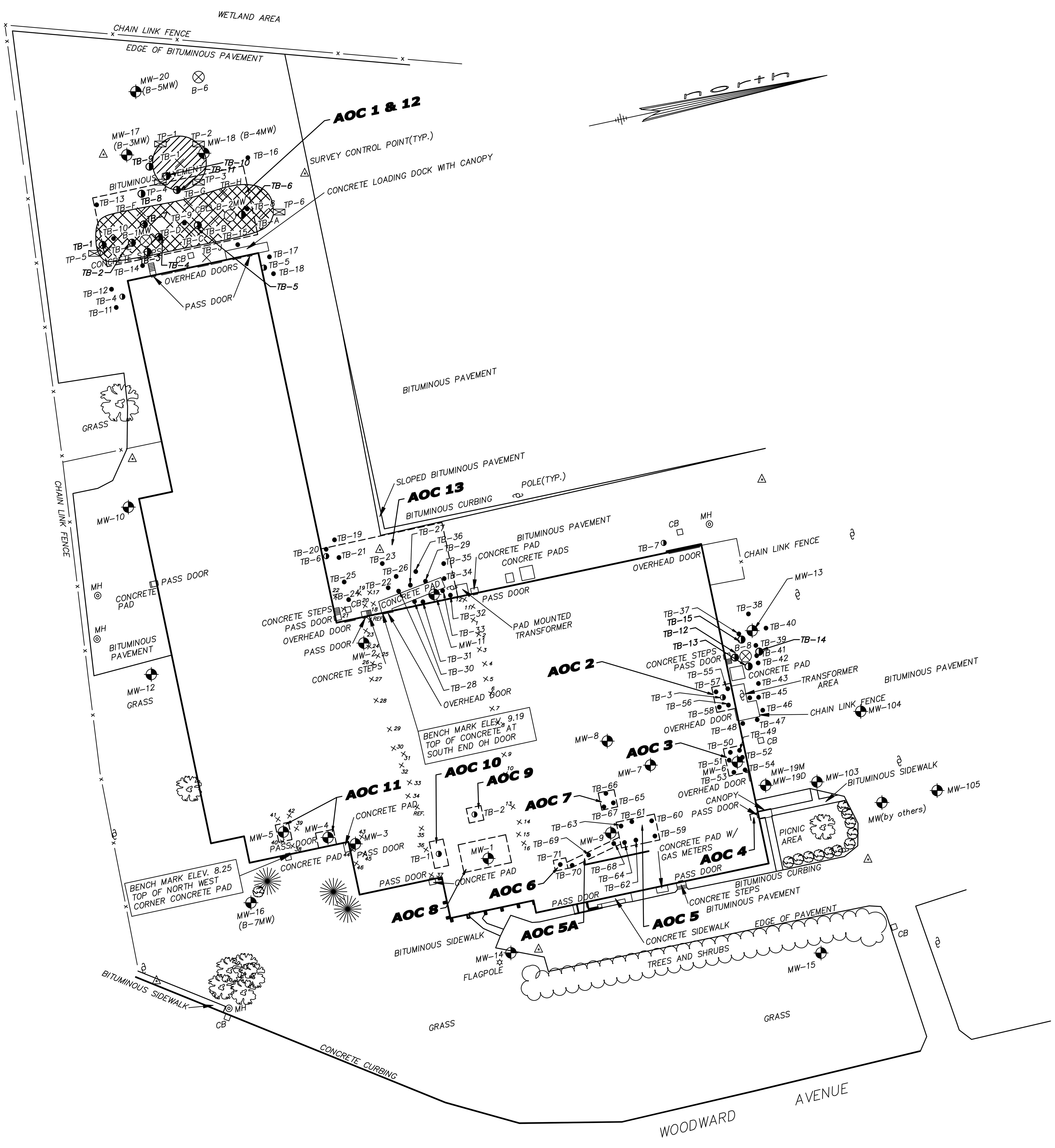
REVISIONS

NO.	DATE	DESCRIPTION

HRP Associates, Inc.
Environmental/Civil Engineering & Hydrogeology
Creating the Right Solutions Together
Connecticut, New York, Pennsylvania, South Carolina
197 Scott Swamp Road
Farmington, Connecticut 06032
Ph:(860)674-9570 Fax:(860)674-9624
www.hrpassociates.com

FMS DESIGNED	DDH APPROVED	1"=50' SCALE	
FMS DRAWN	MAR. 20, 2010 DATE		Fig. 2
FMS CHECKED	HOW0017.P3 PROJECT NO.		SHEET NO.

J:\H\HOWEH - MR HAROLD HOWE, JR\151 WOODWARD AVE, NORWALK, CT\HOW0017P3\CAD\SITE PLAN DEPICTING STORM SEWER SYSTEM.dwg, Layout1, 3/16/2010 12:22:25 PM, DWG To PDF.pc3, Plot stamp



NOTES;
1.) ELEVATIONS REFER TO NORTH AMERICAN DATUM 1983 (NAD83).

LEGEND

- MONITOR WELL LOCATION
- TREE
- CB CATCH BASIN
- MH MANHOLE
- UTILITY POLE
- SHRUB
- SURVEY CONTROL POINT
- HRP SOIL SAMPLING LOCATION (2002)
- HISTORICAL HRP SOIL SAMPLING LOCATION
- 2007 TEST BORING LOCATION
- JULY 1995 TEST BORING LOCATION
- OCTOBER 1995 TEST BORING LOCATION
- DECEMBER 1995 TEST PIT LOCATION
- 1999 SOIL VAPOR SAMPLING LOCATION
- DECEMBER 1995 EXCAVATION AREA (TO 2.5' B.G.)
- DECEMBER 1995 EXCAVATION AREA (TO 4.5' B.G.)

1" = 40'
40 0 20 40 80
APPROXIMATE SCALE IN FEET

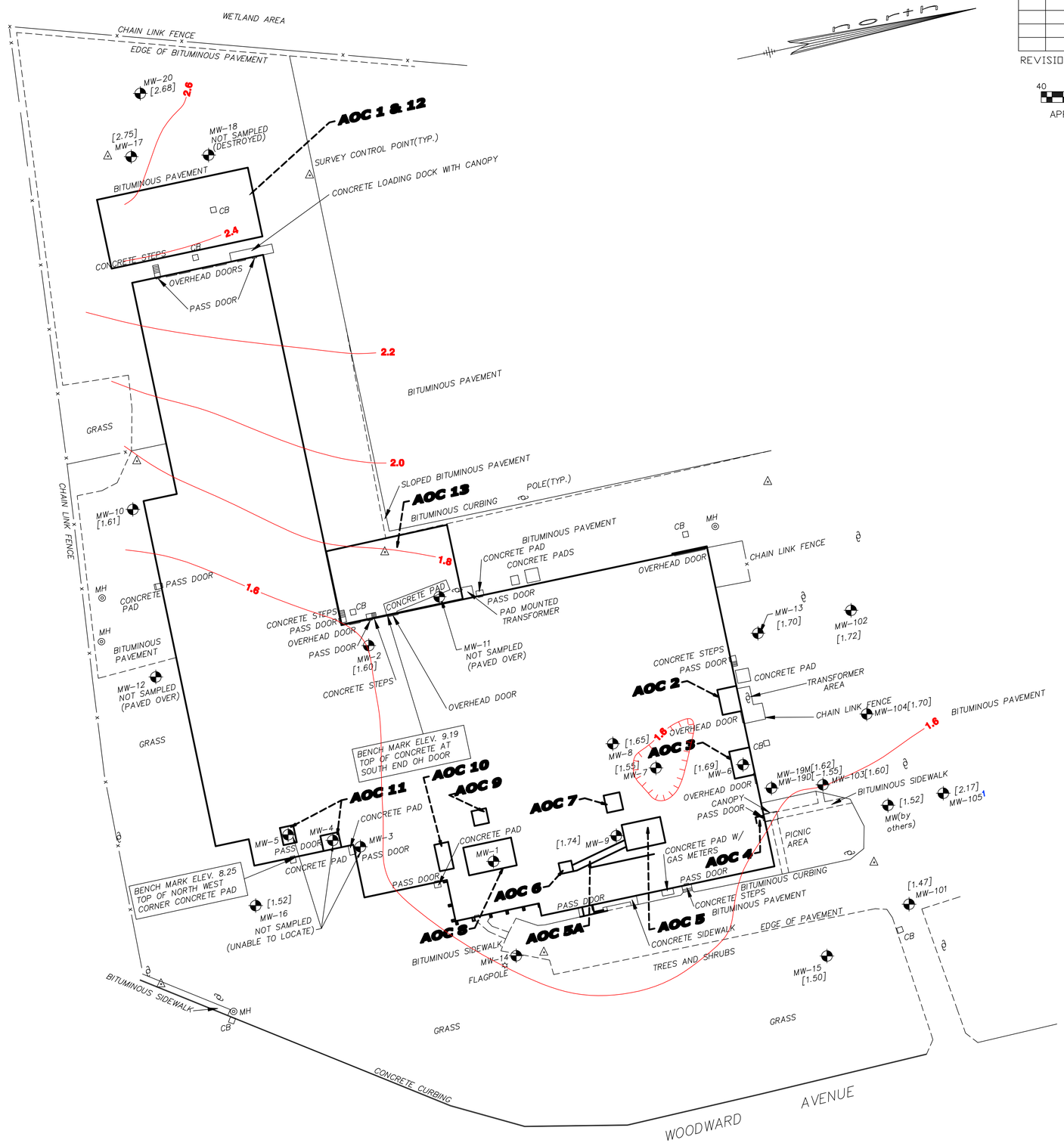
SITE PLAN AND SAMPLING LOCATIONS

FORMER HOWE FURNITURE CORPORATION
151 WOODWARD AVENUE
NORWALK, CONNECTICUT

REVISIONS		
NO.	DATE	DESCRIPTION

HRP Associates, Inc. Environmental/Civil Engineering & Hydrogeology. Creating the Right Solutions Together. Connecticut, New York, South Carolina, Florida, Indiana. 197 Scott Swamp Road Farmington, Connecticut 06032 Ph:(860)674-9570 Fax:(860)674-9624 www.hrpassociates.com	ADD DESIGNED	DDT APPROVED	1"=40' SCALE
	DL DRAWN	MARCH 2010 DATE	FIG. 3 SHEET NO.
	ADD CHECKED	HOW0017.RA PROJECT NO.	

Z:\F\HOWEH - MR HAROLD HOWE, JR\151 WOODWARD AVE, NORWALK, CT\HOW0017RA\CAD\SITE PLAN AND SAMPLING LOCATIONS.dwg, Layout1, 3/16/2010 12:24:28 PM, DWG To PDF.pc3, Plot stamp



NO.	DATE	DESCRIPTION

REVISIONS

1" = 40'

40 0 20 40 80

APPROXIMATE SCALE IN FEET

SEPT. 2009 GROUNDWATER CONTOURS

FORMER HOWE FURNITURE FACILITY
151 WOODWARD AVENUE
NORWALK, CONNECTICUT

HRP Associates, Inc.
Environmental/Civil Engineering & Hydrogeology
Creating the Right Solutions Together
Connecticut, New York, Pennsylvania, South Carolina
197 Scott Swamp Road
Farmington, Connecticut 06032
Ph:(860)674-9570 Fax:(860)674-9624
www.hrpassociates.com

RCF DESIGNED	DDT APPROVED	1"=40' SCALE	
BOB DRAWN	JAN., 2010 DATE		FIG. 4
RCF CHECKED	HOW0017.P3 PROJECT NO.		SHEET NO.

NOTES;
1.) ELEVATIONS REFER TO NORTH AMERICAN DATUM 1983 (NAD83).

LEGEND

- MONITOR WELL LOCATION
- □CB CATCH BASIN
- ◎MH MANHOLE
- UTILITY POLE
- SURVEY CONTROL POINT
- [1.13] ELEVATION OF WATER TABLE IN FT. ABOVE MEAN SEA LEVEL ON SEPT. 22, 2009
- 2.2 GROUNDWATER ELEVATION CONTOUR
- 1 WATER LEVEL IN MW-105 WAS MEASURED ON NOV. 25, 2009

J:\JV\HOWE\H - MR HAROLD HOWE, JR\151 WOODWARD AVE, NORWALK, CT\HOW0017P3\CAD\GROUNDWATER CONTOURS - SEPT-NOV 2009.dwg, Layout1, 3/16/2010 12:23:29 PM, DWG To PDF.pc3, Plot stamp

FIGURE 5
MUNICIPAL
STORMWATER SYSTEM
FORMER HOWE
FURNITURE
CORPORATION
151 WOODWARD AVE.
NORWALK, CT
HRP# HOW0017.P3
SCALE: 1" = 400'

HRP Associates, Inc.
Environmental/Civil Engineering & Hydrogeology
Creating the Right Solutions Together
Connecticut, New York, South Carolina, Florida, Indiana
197 Scott Swamp Road
Farmington, Connecticut 06032
Ph:(860)674-9570 Fax:(860)674-9624
www.hrpassociates.com

J:\H\HOWEH - MR HAROLD HOWE, JR\151 WOODWARD AVE, NORWALK, CT\HOW0017P3\CAD\MUNICIPAL STORM SEWER SYSTEM.dwg, 11X17 LANDSCAPE, 3/16/2010 12:

NO.	DATE	DESCRIPTION

REVISIONS

1" = 40'

40 0 20 40 80

APPROXIMATE SCALE IN FEET

SUMMARY OF GROUNDWATER QUALITY – SEPTEMBER/NOVEMBER 2009

FORMER HOWE FURNITURE FACILITY
151 WOODWARD AVENUE
NORWALK, CONNECTICUT

HRP Associates, Inc.
Environmental/Civil Engineering & Hydrogeology
Creating the Right Solutions Together
Connecticut, New York, Pennsylvania, South Carolina
197 Scott Swamp Road
Farmington, Connecticut 06032
Ph:(860)674-9570 Fax:(860)674-9624
www.hrpassociates.com

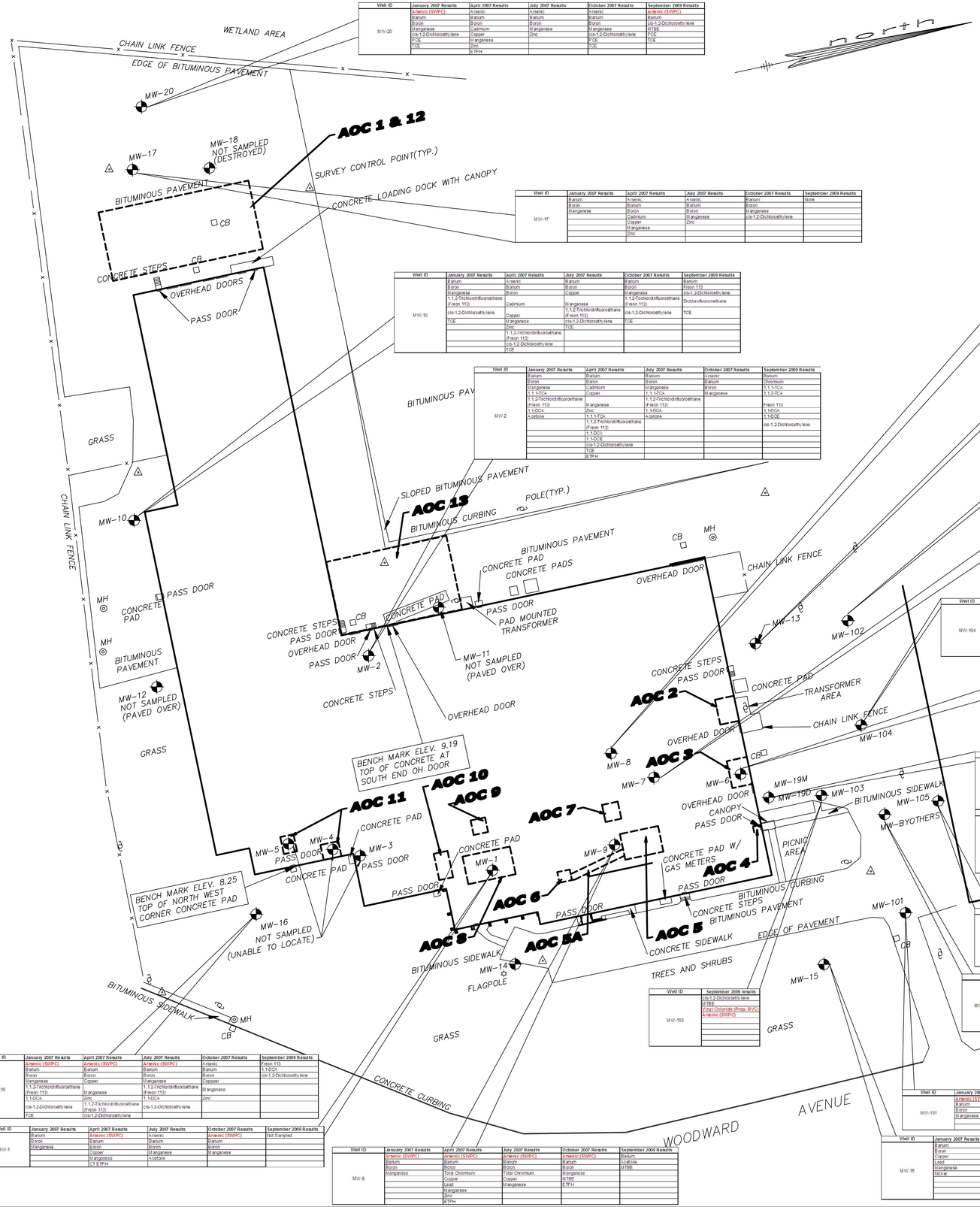
RCF DESIGNED	DDT APPROVED	1"=40' SCALE	
BOB DRAWN	JANUARY 2010 DATE		FIG. 6
RCF CHECKED	HOW0017.P3 PROJECT NO.		SHEET NO.

NOTES;
1.) ELEVATIONS REFER TO NORTH AMERICAN DATUM 1983 (NAD83).

LEGEND

- MONITOR WELL LOCATION
- □CB CATCH BASIN
- ◎MH MANHOLE
- UTILITY POLE
- SURVEY CONTROL POINT

BLACK LETTERING	CONTAMINANT DETECTION
RED LETTERING	RSR EXCEEDANCE (RSR STANDARD)



Well ID	January 2007 Results	April 2007 Results	July 2007 Results	October 2007 Results	September 2009 Results
MW-20	Arsenic (SWPC)	Arsenic	Arsenic	Arsenic	Arsenic (SWPC)
	Barium	Barium	Barium	Barium	Barium
	Boron	Boron	Boron	Boron	cis-1,2-Dichloroethylene
	Manganese	Cadmium	Manganese	MTBE	
	cis-1,2-Dichloroethylene	Copper	Zinc	cis-1,2-Dichloroethylene	PCE
	PCE	Manganese		PCE	TCE
	TCE	Zinc		TCE	
		ETPH			

Well ID	January 2007 Results	April 2007 Results	July 2007 Results	October 2007 Results	September 2009 Results
MW-17	Barium	Arsenic	Arsenic	Barium	None
	Boron	Barium	Barium	Boron	
	Manganese	Boron	Boron	Manganese	
		Cadmium	Manganese	cis-1,2-Dichloroethylene	
		Copper	Zinc		
		Manganese			
		Zinc			

Well ID	January 2007 Results	April 2007 Results	July 2007 Results	October 2007 Results	September 2009 Results
MW-10	Barium	Arsenic	Barium	Barium	Barium
	Boron	Barium	Boron	Boron	Freon 113
	Manganese	Boron	Copper	Manganese	cis-1,2-Dichloroethylene
	1,1,2-Trichlorotrifluoroethane (Freon 113)	Cadmium	Manganese	1,1,2-Trichlorotrifluoroethane (Freon 113)	Dichlorofluoromethane
	cis-1,2-Dichloroethylene	Copper	1,1,2-Trichlorotrifluoroethane (Freon 113)	cis-1,2-Dichloroethylene	TCE
	TCE	Manganese	cis-1,2-Dichloroethylene	TCE	
		Zinc	TCE		
		1,1,2-Trichlorotrifluoroethane (Freon 113)			
		cis-1,2-Dichloroethylene			
		TCE			

Well ID	January 2007 Results	April 2007 Results	July 2007 Results	October 2007 Results	September 2009 Results
MW-2	Barium	Barium	Barium	Arsenic	Barium
	Boron	Boron	Boron	Barium	Chromium
	Manganese	Cadmium	Manganese	Boron	1,1,1-TCA
	1,1,1-TCA	Copper	1,1,1-TCA	Manganese	1,1,2-TCA
	1,1,2-Trichlorotrifluoroethane (Freon 113)	Manganese	1,1,2-Trichlorotrifluoroethane (Freon 113)		Freon 113
	1,1-DCA	Zinc	1,1-DCA		1,1-DCA
	Acetone	1,1,1-TCA	Acetone		1,1-DCE
		1,1,2-Trichlorotrifluoroethane (Freon 113)			cis-1,2-Dichloroethylene
		1,1-DCA			
		1,1-DCE			
		cis-1,2-Dichloroethylene			
		TCE			
		ETPH			

Well ID	January 2007 Results	April 2007 Results	July 2007 Results	October 2007 Results	September 2009 Results
MW-8	Barium	Arsenic (SWPC)	Arsenic (SWPC)	Arsenic (SWPC)	1,1-DCA
	Boron	Barium	Barium	Barium	1,1-DCE
	Manganese	Boron	Boron	Boron	Acetone
	1,1-DCA	Copper	Manganese	Manganese	cis-1,2-Dichloroethylene
	1,1-DCE	Manganese	1,1-DCA	1,1-DCA	
	1,4-Dioxane	Zinc	1,1-DCE	1,1-DCE	
	cis-1,2-Dichloroethylene	1,1-DCA	1,4-Dioxane	cis-1,2-Dichloroethylene	
		1,1-DCE	ETPH		
		ETPH			

Well ID	January 2007 Results	April 2007 Results	July 2007 Results	October 2007 Results	September 2009 Results
MW-13	Barium	Barium	Arsenic	Arsenic	Arsenic
	Boron	Boron	Barium	Barium	cis-1,2-Dichloroethylene
	Manganese	Cadmium	Boron	Boron	
	cis-1,2-Dichloroethylene	Copper	Copper	Manganese	
		Lead	Manganese	cis-1,2-Dichloroethylene	
		Manganese	cis-1,2-Dichloroethylene	ETPH	
		cis-1,2-Dichloroethylene			
		ETPH			

Well ID	January 2007 Results	April 2007 Results	July 2007 Results	October 2007 Results	September 2009 Results
MW-102	Arsenic (SWPC)	Arsenic	Arsenic	Arsenic	Barium (SWPC)
	Barium	Barium	Barium	Barium	
	Boron	Boron	Boron	Boron	
	Manganese	Manganese	Manganese	Total Chromium	
	Mercury	Zinc	Zinc	Manganese	
	MTBE	MTBE	ETPH	ETPH	
	TPH	ETPH			

Well ID	August 2006 results	January 2007 Results	April 2007 Results	October 2007 Results	September 2009 Results
MW-7	Barium	Barium	Arsenic (SWPC)	Arsenic	Arsenic (SWPC)
	ETPH	Boron	Barium	Barium	1,1-DCA
	cis-1,2-Dichloroethylene	Manganese	Boron	Boron	1,1-DCE
	1,1-DCA	1,1-DCA	Copper	Manganese	cis-1,2-Dichloroethylene
		1,1-DCE	Manganese	1,1-DCA	Dichlorofluoromethane
		1,4-Dioxane	Zinc	1,4-Dioxane	
		cis-1,2-Dichloroethylene	1,4-Dioxane	cis-1,2-Dichloroethylene	
			cis-1,2-Dichloroethylene	ETPH	
			ETPH		

Well ID	September 2009 results
MW-104	Barium
	Cis (SWPC)
	Vinyl Chloride (Prop. RVC)
	Arsenic (SWPC)
	cis-1,2-Dichloroethylene
	MTBE

Well ID	August 2006 results	January 2007 Results	April 2007 Results	October 2007 Results	September 2009 Results
MW-6	Barium	Barium	Barium	Barium	1,1,1-TCA
	Copper	Boron	Boron	Boron	1,1-DCA
	1,1,1-TCA	1,1,1-DCA	Copper	Manganese	Chloroethane
	1,1-DCA	1,1-DCA	Manganese	1,1,1-TCA	
			Zinc	1,1-DCA	
			1,1-TCA	ETPH	
			1,1-DCA		
			ETPH		

Well ID	January 2007 Results	April 2007 Results	July 2007 Results	October 2007 Results	September 2009 Results
MW-19D	Arsenic (SWPC)	Arsenic	Arsenic (SWPC)	Arsenic (SWPC)	Arsenic (SWPC)
	Barium	Barium	Barium	Barium	1,1-DCA
	Boron	Boron	Boron	Boron	cis-1,2-Dichloroethylene
	Manganese	Cadmium	Manganese	Manganese	trans-1,2-Dichloroethylene
	Zinc	Copper	1,1-DCA	cis-1,2-Dichloroethylene	MTBE
	MTBE	Manganese	cis-1,2-Dichloroethylene	MTBE	TCE
	Toluene	Zinc	MTBE	trans-1,2-Dichloroethylene	
	trans-1,2-Dichloroethylene	MTBE	trans-1,2-Dichloroethylene	TCE	
	TCE	TCE	TCE		

Well ID	January 2007 Results	April 2007 Results	July 2007 Results	October 2007 Results	September 2009 Results
MW-19M	Barium	Arsenic	Arsenic	Arsenic	Arsenic (SWPC)
	Boron	Barium	Barium	Barium	Barium
	Manganese	Boron	Boron	Boron	1,1-DCA
	1,1,1-TCA	Cadmium	Manganese	Manganese	1,1-DCE
	1,1-DCA	Copper	Zinc (SWPC)	Zinc	MTBE
	cis-1,2-Dichloroethylene	Manganese	1,1-DCA	1,1-DCA	cis-1,2-Dichloroethylene
	Toluene	Zinc (SWPC)	1,1-DCE	1,1-DCE	
		1,1,1-TCA	cis-1,2-Dichloroethylene	cis-1,2-Dichloroethylene	
		cis-1,2-Dichloroethylene	MTBE	MTBE	
		ETPH			

Well ID	November 2009 results
MW-106	MTBE

Well ID	January 2007 Results	April 2007 Results	July 2007 Results	October 2007 Results	September 2009 Results
MW-By Others	Barium	Arsenic	Arsenic	Arsenic	Arsenic (SWPC)
	Boron	Barium	Barium	Barium	Barium
	Manganese	Boron	Boron	Boron	1,1-DCA
	1,1-DCA	Copper	cis-1,2-Dichloroethylene	Manganese	MTBE
	MTBE	Manganese	Manganese	MTBE	Vinyl Chloride (Prop. RVC)
	trans-1,2-Dichloroethylene	Zinc	MTBE	trans-1,2-Dichloroethylene	
	Vinyl Chloride (Prop. RVC)	MTBE	Vinyl Chloride	Vinyl Chloride (Prop. RVC)	
	TPH	Vinyl Chloride (Prop. RVC)	ETPH	ETPH	
		ETPH			

Well ID	September 2009 results
MW-103	cis-1,2-Dichloroethylene
	MTBE
	Vinyl Chloride (Prop. RVC)
	Arsenic (SWPC)

Well ID	January 2007 Results	April 2007 Results	July 2007 Results	October 2007 Results	September 2009 Results
MW-16	Arsenic (SWPC)	Arsenic (SWPC)	Arsenic (SWPC)	Arsenic	Freon 113
	Barium	Barium	Barium	Barium	1,1-DCA
	Boron	Boron	Boron	Boron	cis-1,2-Dichloroethylene
	Manganese	Manganese	Manganese	Copper	
	1,1,2-Trichlorotrifluoroethane (Freon 113)	Manganese	1,1,2-Trichlorotrifluoroethane (Freon 113)	Manganese	
	1,1-DCA	Zinc	1,1-DCA	Zinc	
	cis-1,2-Dichloroethylene	1,1-DCA	cis-1,2-Dichloroethylene		
	TCE	cis-1,2-Dichloroethylene			
		TCE			

Well ID	January 2007 Results	April 2007 Results	July 2007 Results	October 2007 Results	September 2009 Results
MW-101		Arsenic (SWPC)	Arsenic	Arsenic	None
		Barium	Barium	Barium	
		Boron	Boron	Boron	
		Manganese	Manganese	Manganese	
			Zinc	ETPH	
			ETPH		

Well ID	January 2007 Results	April 2007 Results	July 2007 Results	October 2007 Results	September 2009 Results
MW-1	Barium	Arsenic (SWPC)	Arsenic	Arsenic (SWPC)	Not Sampled
	Boron	Barium	Barium	Barium	
	Manganese	Boron	Boron	Boron	
		Copper	Manganese	Manganese	
		Manganese	Acetone		
		CT ETPH			

Well ID	January 2007 Results	April 2007 Results	July 2007 Results	October 2007 Results	September 2009 Results
MW-9	Arsenic (SWPC)	Arsenic (SWPC)	Arsenic (SWPC)	Arsenic (SWPC)	Barium
	Barium	Barium	Barium	Barium	Acetone
	Boron	Boron	Boron	Boron	MTBE
	Manganese	Total Chromium	Total Chromium	Manganese	
		Copper	MTBE	Copper	
		Lead	Manganese	Lead	
		Manganese		Manganese	
		Zinc		ETPH	
		ETPH			

Well ID	January 2007 Results	April 2007 Results	July 2007 Results	October 2007 Results	September 2009 Results
MW-15	Barium	Arsenic	Arsenic	Arsenic	Acetone
	Boron	Barium	Barium	Barium	
	Copper	Boron	Boron	Boron	
	Lead	Copper	Copper	Total Chromium	
	Manganese	Manganese	Lead	Copper	
	Nickel	Zinc	Manganese	Manganese	
		ETPH	Nickel	Zinc	
			Zinc	1,1 - Dichloroethane	

F:\HYDRO\HH – MR HAROLD HOWE, JR\151 WOODWARD AVE, NORWALK, CT\HOW0017P3\CAD\SUMMARY OF GW QUALITY – SEPT-NOV 2009.dwg, Layout1, 3/16/2010 12:27:27 PM, DWG To PDF.pc3, Plot stamp

TABLES

Table 1
Conceptual Site Model
Former Howe Furniture
151 Woodward Ave
Norwalk, CT

RA/PRA Number	Description of Potential Release Areas	Potential Release Mechanism	Potential Contaminants of Concern	1995 Soil Samples Collected		1995 Parameters Analyzed [Contaminants Detected]	1995 Soil Contamination Above RSR Criteria	1999 Phase II Soil Samples Collected	1999 Parameters Analyzed [Contaminants Detected]	1999 Soil Contamination Above RSR Criteria	2002 Phase II Soil Samples Collected	2002 Parameters Analyzed [Contaminants Detected]	2002 Soil Contamination Above RSR Criteria	2006 Soil Samples Collected	2006 Parameters Analyzed [Contaminants Detected]	2006 Soil Contamination Above RSR Criteria	Remediation Required
				Type of Sample	Sample ID												
RA-1	Former 3,000-gallon fuel oil UST installed in 1977 and removed in April/May 1988. Note: this area coincides with RA-12.	Leakage to soil and shallow groundwater due to tank failure, surface spills affecting shallow soil from overfilling	ETPH, SVOCs	Phase II Investigation	B-1MW (0.5-2.5')	TPH (418.1), Total metals, VOCs, pH [TPH, pH]	TPH > RDEC, I/C DEC, GB PMC (removed)	TB-4	TPH (418.1), Total and SPLP metals [total metals, SPLP Pb]	none	TB-8 (4-6')	ETPH [ETPH]	none	TB-01 (2-2.5')	ETPH [none]	none	Excavation of 1200 tons of petroleum contaminated soil was conducted in December 1995. Confirmatory sampling conducted in 1995, and again in 2002 and 2006, indicate that ETPH is below the Industrial/Commercial DEC and GB PMC. An ELUR restricting the site to Industrial/Commercial use will achieve compliance with RSR criteria for ETPH. The single detection of Total Chromium at concentrations exceeding the DEC for hexavalent Chromium is not interpreted to be a true exceedance of RSR criteria due to the instability of hexavalent chrome in soils.
				Phase II Investigation	B-2MW (0.5-2.5')	TPH, Total metals, VOCs, pH [TPH, pH]	TPH > RDEC (removed)	TB-5	TPH, Total and SPLP metals [TPH, Total metals]	none	TB-8 (4-6') dup	ETPH [ETPH]	none	TB-02 (2.67-3.33')	ETPH [ETPH]	none	
				Phase II Investigation	B-3MW (0.5-2.5')	TPH, Total metals, VOCs, pH [TPH, pH]	none				TB-9 (0-2')	ETPH [ETPH]	ETPH > RDEC	TB-03 (1.58-2.25')	ETPH [ETPH]	none	
				Phase II Investigation	B-4MW (2.5-4.5')	TPH, Total metals, VOCs, pH [TPH, pH]	none				TB-10 (6-8')	ETPH, Total and SPLP DEP metals, VOCs [ETPH, total and SPLP metals, 2-butanone, acetone]	total Cr > RDEC, I/C DEC for hex Cr	TB-04 (2.16-2.67')	ETPH [none]	none	
				Phase II Investigation	B-5-MW (2.5-4.5')	TPH, Total metals, VOCs, pH [pH]	none				TB-11 (0-2')	ETPH, Total and SPLP DEP metals, VOCs [ETPH, total and SPLP metals]	ETPH > RDEC	TB-04 (3.5-4')	ETPH [none]	none	
				Phase II Investigation	B-6 (2.5-4.5')	TPH, Total metals, VOCs, pH [pH]	none				TB-12 (2-4')	ETPH [ETPH]	none	TB-05 (1.58-2.25)	ETPH [ETPH]	none	
				Phase III Investigation	TB-A (0.5-2.5')	TPH [TPH]	TPH > RDEC (removed)				TB-13 (0-2')	ETPH [ETPH]	ETPH > RDEC	TB-06 (3.33-4')	ETPH [none]	none	
				Phase III Investigation	TB-A (2.5-4.5')	TPH [TPH]	none				TB-14 (2-4')	ETPH [ETPH]	none	TB-07 (3.33-4')	ETPH [none]	none	
				Phase III Investigation	TB-B (2.5-4.5)	TPH [TPH]	none				TB-15 (2-4')	ETPH, Total and SPLP DEP metals, VOCs [ETPH, total and SPLP metals, 2-butanone, acetone]	none	TB-08 (3.75-5')	ETPH [none]	none	
				Phase III Investigation	TB-C (0.5-2.5')	TPH [TPH]	TPH > RDEC (removed)				TB-17 (0-2')	ETPH [ETPH]	none	TB-09 (3.5-4.5')	ETPH [ETPH]	none	
				Phase III Investigation	TB-C (2.5-4.5')	TPH [TPH]	none				TB-18 (0-2')	mercury [mercury]	none	TB-11 (3.5-4.25')	ETPH [none]	none	
				Phase III Investigation	TB-D (2.5-4.5')	TPH [none]	none				TB-18 (2-4')	ETPH [ETPH]	none				
				Phase III Investigation	TB-E (0.5-2.5')	TPH [TPH]	TPH > RDEC (removed)										
				Phase III Investigation	TB-E (2.5-4.5')	TPH [TPH]	none										
				Phase III Investigation/ Confirmatory sample	TB-F (0.5-2.5')	TPH [TPH]	none										
				Phase III Investigation/ Confirmatory sample	TB-F (2.5-4.5')	TPH [TPH]	none										
				Phase III Investigation/ Confirmatory sample	TB-G (0.5-2.5')	TPH [TPH]	none										
				Phase III Investigation/ Confirmatory sample	TB-G (2.5-4.5')	TPH [TPH]	none										
				Phase III Investigation/ Confirmatory sample	TB-H (0.5-2.5')	TPH [TPH]	none										
				Phase III Investigation/ Confirmatory sample	TB-H (2.5-4.5')	TPH [TPH]	none										
				Phase III Investigation	TB-I (0.5-2.5')	TPH [TPH]	none										
				Phase III Investigation	TB-I (2.5-4.5')	TPH [TPH]	TPH > RDEC (removed)										
				Phase III Investigation	TB-J (0.5-2.5')	TPH [TPH]	none										
				Phase III Investigation	TB-J (2.5-4.5')	TPH [none]	none										
				Confirmatory sample	TP-1 (2.5-4.5')	TPH [TPH]	none										
				Confirmatory sample	TP-2 (2.5-4.5')	TPH [none]	none										
				Confirmatory sample	TP-3 (2.5-4.5')	TPH [none]	none										
				Confirmatory sample	TP-4 (2.5-4.5')	TPH [none]	none										
				Confirmatory sample	TP-5 (0.5-2.5')	TPH [TPH]	none										
				Confirmatory sample	TP-6	TPH [TPH]	none										
PRA-2	Former ignitable materials storage area Occupied 10ft x 15ft bermed area inside building Storage of bulk solvents, acids, paints, stains, lacquers, paint thinner. Dates of operations unknown, but Howe Furniture operations ceased in 1995. Concrete floor observed to be in good condion. Staining observed on floor. Ventilation pipe observed at floor level	Release to concrete floor potentially affecting shallow soils from spills or container failure. Potential discharge of interior spills to exterior soils via ventilation pipe.	ETPH, VOCs, pH, metals, PCBs	Phase II Investigation	B-8	none	NA	TB-3	TPH (418.1), Total metals, VOCs [Total metals]	none	TB-37 (4-6')	ETPH [ETPH]	none	TB-12 (1.83-3')	ETPH [none]	none	TPH was identified at a concentration exceeding the RDEC, I/C DEC and GB PMC in one exterior soil sample in 1995. Extensive delineation of the petroleum-impacted soils by the ETPH method did not confirm the presence of ETPH exceeding RSR criteria. Calculation of the 95% UCL will achieve compliance with RSR Criteria.
				Phase II Investigation	Venthood (0.5-1')	TPH, VOCs, 8 RCRA metals by SPLP, acetone, phenols, formaldehyde, pH [TPH, pH]	TPH > RDEC, I/C DEC, GB PMC (exterior)							TB-13 (1.5-2.33')	ETPH [none]		
				Phase II Investigation	AOC2-Soil	TCLP metals, VOCs [TCLP metals]	none				TB-38 (2-4')	ETPH [ETPH]		TB-14 (1.83-2.83)	ETPH [none]		
				Concrete chip samples	AOC2S, AOC2N	Total and TCLP metals, VOCs [TCLP metals, AVOCs]	NA				TB-39 (0-2')	ETPH [ETPH]		TB-15 (1.91-2.91')	ETPH [none]		
											TB-40 (4-6.5')	ETPH [ETPH]					
											TB-41 (4-6.5')	ETPH [ETPH]					
											TB-41 (4-6.5') dup	ETPH [none]					
											TB-42 (4-6')	ETPH [ETPH]					
											TB-43 (0-2')	ETPH [ETPH]					
											TB-44 (0-2')	ETPH [ETPH]					
											TB-45 (2-4')	ETPH [none]					
											TB-46 (0-2')	ETPH [none]					
											TB-47 (2-4')	ETPH [ETPH]					
											TB-48 (0-2')	ETPH [ETPH]					
											TB-55 (1-2')	VOCs [VOCs]					
											TB-56 (2-4')	ETPH, Total metals [Total metals]					
											TB-57 (6-7.5')	ETPH [none]					
											TB-58 (0-2')	ETPH [none]					

Table 1
Conceptual Site Model
Former Howe Furniture
151 Woodward Ave
Norwalk, CT

RA/PRA Number	Description of Potential Release Areas	Potential Release Mechanism	Potential Contaminants of Concern	1995 Soil Samples Collected		1995 Parameters Analyzed [Contaminants Detected]	1995 Soil Contamination Above RSR Criteria	1999 Phase II Soil Samples Collected	1999 Parameters Analyzed [Contaminants Detected]	1999 Soil Contamination Above RSR Criteria	2002 Phase II Soil Samples Collected	2002 Parameters Analyzed [Contaminants Detected]	2002 Soil Contamination Above RSR Criteria	2006 Soil Samples Collected	2006 Parameters Analyzed [Contaminants Detected]	2006 Soil Contamination Above RSR Criteria	Remediation Required
				Type of Sample	Sample ID												
RA-3	Former hazardous materials storage area Occupied 5ft x 9ft bermed area inside building. Storage of 111TCA, waste paint, silver solder cooling water waste, acetone Dates of operations unknown, but Howe Furniture operations ceased in 1995. Concrete floor observed to be in good condion. Minor splash staining observed on walls.	Release to concrete floor potentially affecting shallow soils from spills or container failure.	ETPH, VOCs, metals, SVOCs, pesticides, PCBs	RCRA Closure Concrete chip samples	CP-3, CP-5, CP-6, CP-7, CP-8	Appendix IX [Total and SPLP metals, AVOCs, PCBs]	NA	MW-6 (2-4')	TPH, Total Metals [Total metals]	none	TB-49 (0-2')	VOCs [2-butanone, acetone]	As > RDEC, I/C DEC	Not Tested	NA	As > RDEC, I/C DEC	Arsenic has been identified at concentrations exceeding the RDEC and I/C DEC in soils beneath the building. An ELUR to render soils inaccessible under building will achieve compliance with RSR criteria.
											TB-49 (4-5')	NA					
											TB-51 (6-7')	Total and SPLP metals [Total and SPLP metals]					
											TB-52 (2-4')	Total and SPLP metals [Total and SPLP metals]					
											TB-53 (1-2')	VOCs [TCA, 2-butanone, acetone]					
											TB-54 (0-2')	VOCs, Total metals, TOC [Total metals, 2-butanone, acetone, TOC]					
											Concrete chip CP-1	none	NA				
											Concrete chip CP-2	none					
											Concrete chip CP-3	VOCs [acetone, 2-butanone, MIBK, 2-hexanone]					
											Concrete chip CP-4	none					
											Concrete chip CP-5 (composite of CP-1 through CP-5)	Appendix IX [metals, Aldrin, phthalates]					
											Concrete chip CP-6, CP-7, CP-8	VOCs, SVOCs, pesticides, formaldehyde, total and SPLP metals [acetone, 2-butanone, BTEX, 2-hexanone, trimethylbenzenes, naphthalene, TCA, phthalates, total and SPLP metals]					
PRA-4	Compressed gas storage Storage of argon, oxygen, and liquid petroleum/propane in compressed gas cylinders	None. There is no potential for a release of compressed gas to affect soil or groundwater quality	None	Not Tested	None	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	None Required
RA-5	Former Descaling Rinse Tanks Tanks in use from 1986-1995 for steel furniture parts. Mild acid solution/rinsewater discharged to sanitary sewer. Rinsewaters also contained trace 111TCA residuals. No secondary containment present. Significant staining observed on floor	Release to concrete floor potentially affecting shallow soils from spills or container failure.	VOCs, ETPH, metals	Phase II Investigation	AOC5-Soil	SPLP/TCLP metals, VOC [TCLP/SPLP metals]	none	MW-9 (0-2")	Total and SPLP metals [Total metals]	As > RDEC, I/C DEC	TB-62 (2-4')	SPLP Metals [SPLP metals]	total Cr > RDEC, I/C DEC for hex Cr	Not Tested	NA	total Cr > RDEC, I/C DEC for hex Cr	Metals, including cadmium, arsenic, and total chromium, are present in soil beneath the building at concentrations exceeding the DEC and/or GB PMC, which remain after soil remediation was conducted in 1995/1996. ELUR to render soils inaccessible under building will achieve compliance with RSR criteria for metals in this area.
				Confirmatory post remediation sample	S-1 (13")	SPLP metals [SPLP metals]	none	MW-9 (4-6')	Total and SPLP metals, TPH, VOCs [Total metals]	none	TB-62 (6-7')	Total and SPLP metals, VOCs, TOC [Total and SPLP metals, acetone, toluene, TOC]					
				Confirmatory post remediation sample	S-2 (13")	SPLP metals [SPLP metals]	none	MW-7 (0-2')	total and SPLP metals, TPH, VOCs [Total metals]	none	TB-64 (2-4')	Total and SPLP metals [Total and SPLP metals]					
				Confirmatory post remediation sample	AOC5E (collected 2/1996)	SPLP metals [SPLP metals]	none				TB-64 (6-7')	Total and SPLP metals [Total and SPLP metals]					
				Confirmatory post remediation sample	AOC5W (collected 2/1996)	SPLP metals [SPLP metals]	none										
				Confirmatory post remediation sample	1N (6") (collected 2/1996)	SPLP metals [SPLP metals]	none										
				Confirmatory post remediation sample	2N (24") (collected 2/1996)	SPLP metals [SPLP metals]	none										
				Confirmatory post remediation sample	3N (36") (collected 2/1996)	SPLP metals [SPLP metals]	none										
				Confirmatory post remediation sample	1S (6") (collected 2/1996)	SPLP metals [SPLP metals]	none										
				Confirmatory post remediation sample	2S (24") (collected 2/1996)	SPLP metals [SPLP metals]	none										
				Confirmatory post remediation sample	3S (36") (collected 2/1996)	SPLP metals [SPLP metals]	none										
				Confirmatory post remediation sample	1E (6") (collected 2/1996)	SPLP metals [SPLP metals]	none										
				Confirmatory post remediation sample	2E (24") (collected 2/1996)	SPLP metals [SPLP metals]	none										
				Confirmatory post remediation sample	3E (36") (collected 2/1996)	SPLP metals [SPLP metals]	none										
				Confirmatory post remediation sample	1W (6") (collected 2/1996)	SPLP metals [SPLP metals]	none										
				Confirmatory post remediation sample	2W (24") (collected 2/1996)	SPLP metals [SPLP metals]	Cd > GB PMC										
				Confirmatory post remediation sample	3W (36") (collected 2/1996)	SPLP metals [SPLP metals]	none										
				Confirmatory post remediation sample	3BE (36") (collected 2/1996)	SPLP metals [SPLP metals]	none										
				Confirmatory post remediation sample	3BW (36') (collected 2/1996)	SPLP metals [SPLP metals]	none										
				Concrete chip samples	AOC5M, AOC5N, AOC5S	SPLP and TCLP metals [SPLP/TCLP metals]	NA										
RA-5a	Former piping trench between solder cooling water tank and descaling rinse tanks Subfloor trench in use from 1981-1995.	Release to the concrete trench potentially affecting shallow soils from spills or pipe failure	VOCs, PCBs, metals	Phase II Investigation	AOC5.5E (collected 2/1996)	SPLP metals [none]	None	Not Tested	NA	None	TB-68 (0-1.5')	Total metals, VOCs, TOC [Iron, acetone, toluene, TOC]	None	Not Tested	NA	None	None Required
				Phase II Investigation	AOC5.5W (collected 2/1996)	SPLP metals [none]					TB-69 (7-8')	VOCs [2-butanone, acetone, toluene]					
											TB-70 (0-2')	VOCs [acetone]					
											TB-70 (2-4')	Total and SPLP metals [Total and SPLP metals]					

Table 1
Conceptual Site Model
Former Howe Furniture
151 Woodward Ave
Norwalk, CT

RA/PRA Number	Description of Potential Release Areas	Potential Release Mechanism	Potential Contaminants of Concern	1995 Soil Samples Collected		1995 Parameters Analyzed [Contaminants Detected]	1995 Soil Contamination Above RSR Criteria	1999 Phase II Soil Samples Collected	1999 Parameters Analyzed [Contaminants Detected]	1999 Soil Contamination Above RSR Criteria	2002 Phase II Soil Samples Collected	2002 Parameters Analyzed [Contaminants Detected]	2002 Soil Contamination Above RSR Criteria	2006 Soil Samples Collected	2006 Parameters Analyzed [Contaminants Detected]	2006 Soil Contamination Above RSR Criteria	Remediation Required
				Type of Sample	Sample ID												
RA-6	Former silver solder cooling water tanks Cooling water was discharged at a rate of 100 gallons/month from 1981-1991. Cooling waters contained trace 111TCA. No secondary containment present. Staining observed on floor	Release to concrete floor potentially affecting shallow soils from spills or container failure	VOCs, ETPH, metals	Phase II Investigation	AOC6E (collected 2/1996)	SPLP metals [SPLP zinc]	None	MW-9 (0-2')	Total and SPLP metals [Total metals]	As > RDEC, I/C DEC	TB-71 (2-4')	Total metals [Total metals]	As > RDEC, I/C DEC; total Cr > RDEC, I/C DEC for hex Cr	Not Tested	NA	As > RDEC, I/C DEC; total Cr > RDEC, I/C DEC for hex Cr	Metals, including arsenic, and total chromium, are present in soil beneath the building at concentrations exceeding the DEC. An ELUR to render soils inaccessible under building will achieve compliance with RSR criteria for metals in this area.
				Phase II Investigation	AOC6W	SPLP metals [SPLP zinc]		MW-9 (4-6')	Total and SPLP metals, TPH, VOCs [Total metals]	none	TB-71 (6-7')	Total metals, VOCs, TOC [Total metals, 2-butanone, acetone, ethylbenzene, xylenes, toluene,TOC]					
				Concrete chip samples	AOC6	SPLP and TCLP metals [leachable metals]											
PRA-7	Former vapor degreaser 111TCA degreaser in use from 1983-1992. Spent solvent stored in attached drum. 80-220 gallons of spent solvent generated per month	Release to concrete floor potentially affecting shallow soils from spills or container failure	VOCs, metals, ETPH	Phase II Investigation	AOC7-Soil	SPLP/TCLP metals [TCLP metals]	None	MW-8 (0-2')	VOCs, total and SPLP metals, TPH [Total metals]	none	TB-65 (6-7')	Total and SPLP metals [Total and SPLP metals]	As > RDEC, I/C DEC; total Cr > RDEC, I/C DEC for hex Cr	Not Tested	NA	As > RDEC, I/C DEC; total Cr > RDEC, I/C DEC for hex Cr	Metals, including arsenic, and total chromium, are present in soil beneath the building at concentrations exceeding the DEC. An ELUR to render soils inaccessible under building will achieve compliance with RSR criteria for metals in this area.
				Concrete chip samples	AOC7W, AOC7E	TCLP metals [TCLP metals]	NA				TB-65 (7-8')	VOCs [11DCA, 2-butanone, acetone, toluene]					
											TB-67 (6-7')	Total metals [Total metals]					
PRA-8	Former pre-powder cleaning lines and tanks Rinsewaters containing residual bromodichloromethane, chloroform, xylenes, and 111TCA were discharged to the sanitary sewer from 1960-1986. 1986-1995, rinsewaters were recirculated.	Release to concrete floor potentially affecting shallow soils from spills or container failure	VOCs, metals, ETPH	Concrete chip samples	AOC8N, AOC8S	SPLP and TCLP metals, VOCs [TCLP metals]	NA	MW-1 (0-2')	TPH (418.1), total metals [Total metals]	None	Not Tested	NA	NA	Not Tested	NA	NA	None Required
PRA-9	Former dust/powder overspray area In operation circa 1980-1995 in conjuction with air filtration system.	None. There is no potential for a release of overspray to affect soil or groundwater quality	ETPH, metals, VOCs	Concrete chip samples	AOC9	TCLP metals [TCLP metals]	NA	TB-2	TPH (418.1), total metals [Total metals]	None	Not Tested	NA	NA	Not Tested	NA	NA	None Required
PRA-10	Former powder curing/baking area Powder curing oven in use from 1960-1995	Release of icocyanite and caprolactum to air. There is no potential for a release to air from is area to affect soil or groundwater quality	ETPH, VOCs, metals	Phase II Investigation	AOC10-Soil	Total and TCLP metals [Total and TCLP metals]	None	TB-1 (0-2')	Total metals [total metals]	none	Not Tested	NA	NA	Not Tested	NA	NA	None Required
				Concrete chip samples	AOC10E, AOC10W, AOC10S	SPLP and TCLP metals [SPLP/TCLP metals]		TB-1 (6-8')	VOCs, TPH [none]	none							
RA-11	Former Lacquer spray hood area This area was utilized for spray hoods from 1985-1995. Post 1995, it was used for storage of spray hood filter pads.	Releases of 2-butanone (MEK) and cresol to the air. There is no potential for a release to air from is area to affect soil or groundwater quality	VOCs	Concrete chip samples	AOC11E, AOC11S	SPLP and TCLP metals, VOCs [Leachable metals, MIBK]	NA	MW-4 (2-4')	TPH, Total Metals [Total metals]	none	Not Tested	NA	NA	Not Tested	NA	NA	None Required
								MW-5 (2-4')	TPH, Total Metals [Total metals]	None							
RA-12	Former hazardous waste storage area Exterior storage area for 8-10 drums of waste solvent, paint, lacquer and/or paint stripper from 1982-1985. Staining observed on pavement around drums	Releases to soil and shallow groundwater due to container failure or surface spills	VOCs, ETPH, metals, pH	See RA-1	See RA-1	See RA-1	See RA-1	See RA-1	See RA-1	See RA-1	See RA-1	See RA-1	See RA-1	See RA-1	See RA-1	See RA-1	See RA-1
RA-13	TPH-impacted soils were identified near the former shredder machine and dumpster exterior to the Carpentry Room	Releases to soil and shallow groundwater due to surface spills	ETPH, VOCs, SVOCs, PCBs, metals	Not Tested	Not Tested	NA	NA	TB-6 (0-2')	TPH (418.1), Total metals	TPH > RDEC	TB-19 (0-2')	ETPH [ETPH]	none	Not Tested	NA	none	Extensive delineation of the petroleum-impacted soils by the ETPH method did not confirm the presence of TPH > RDEC. Calculation of the 95% UCL will achieve compliance with RSR Criteria.
								MW-11 (0-2')	TPH, total metals [TPH, Total metals]	TPH > RDEC	TB-20 (2-3.5')	ETPH [none]					
								MW-2 (0-2')	TPH, Total Metals [Total metals]	none	TB-21 (2-3')	ETPH [ETPH]					
											TB-22 (0-2')	ETPH [ETPH]					
											TB-23 (2-4.5')	ETPH [none]					
											TB-24 (1-3')	ETPH, total and SPLP metals, pesticides, VOCs, SVOCs, TOC [ETPH, total metals, SPLP metals, 2-butanone, acetone, TOC]					
											TB-24 (3-5')	ETPH [ETPH]					
											TB-25 (1-3')	ETPH [none]					
											TB-26 (3-5')	ETPH [none]					
											TB-27 (0-2')	ETPH [ETPH]					
											TB-28 (1-3')	ETPH [ETPH]					
											TB-29 (0-2')	ETPH [ETPH]					
											TB-30 (1-3')	ETPH [none]					
											TB-31 (2-4')	ETPH, total and SPLP metals, PCBs, VOCs, SVOCs, TOC [Total metals, PCBs, acetone, toluene, SVOCs, TOC]					
											TB-32 (1-3')	ETPH [ETPH]					
											TB-33 (3-5')	ETPH [ETPH]					
											TB-34 (3-5')	ETPH, total and SPLP metals, PCBs, VOCs, SVOCs, TOC [ETPH, total and SPLP metals, 11DCA, acetone, toluene, 11DCE, 2-butanone, 4-methyl-2-pentanone, chloroethane, c12DCE, ethylbenzene, xylenes, TCE, 4-methylphenol, TOC]					
											TB-35 (2-4')	ETPH [ETPH]					
											TB-36 (0-2')	ETPH [ETPH]					
Wetlands	Wetlands adjacent to the site to the west receive discharges of surface runoff from the site and surrounding industrial/commercial properties	Releases of contaminated runoff	ETPH, VOCs, metals	Surficial Soil	DG (0.5')	TPH (418.1), SPLP metals, VOCs [TPH, SPLP Pb]	None	Not Tested	NA	NA	Not Tested	NA	NA	Not Tested	NA	NA	None Required
				Surficial Soil	RO (1.5')	TPH (418.1), SPLP metals, VOCs [TPH, SPLP Ba]											

Notes: NA = Not Applicable

Table 2
Monitoring Well Construction Summary
Former Howe Furniture Corporation
151 Woodward Ave
Norwalk, CT
HRP#HOW0017.P3

Well ID	Installation Date	Well Finish	Target Area	Condition	Well Diameter and Construction	Screen Interval	PVC Elevation (ft above MSL)
B-1MW	1995	exterior handway	RA-1/RA-12	destroyed	3/4 inch Schedule 40 PVC	2.5-12.5	na
B-2MW	1995	exterior handway	RA-1/RA-12	destroyed	3/4 inch Schedule 40 PVC	3.0-13.0	na
B-3MW (aka MW-17)	1995	exterior handway	RA-1/RA-12	good	3/4 inch Schedule 40 PVC	3.0-13.0	6.495
B-4MW (aka MW-18)	1995	exterior handway	RA-1/RA-12	destroyed	3/4 inch Schedule 40 PVC	3.0-13.0	6.625
B-5MW (aka MW-20)	1995	exterior handway	RA-1/RA-12	good	3/4 inch Schedule 40 PVC	3.0-13.0	6.13
B-7MW (aka MW-16)	1995	exterior standpipe	General	good	3/4 inch Schedule 40 PVC	3.0-13.0	9.04
MW-1	1999	interior handway	RA-8	good	3/4 inch Schedule 40 PVC	4.0-14.0	8.715
MW-2	1999	interior handway	RA-13	good	3/4 inch Schedule 40 PVC	4.8-9.8	9.01
MW-3	1999	interior handway	General	unable to locate	3/4 inch Schedule 40 PVC	4.0-14.0	8.71
MW-4	1999	interior handway	RA-11	unable to locate	3/4 inch Schedule 40 PVC	1.5-11.5	8.685
MW-5	1999	interior handway	RA-11	unable to locate	3/4 inch Schedule 40 PVC	2.0-12.0	8.755
MW-6	1999	interior handway	RA-3	good	3/4 inch Schedule 40 PVC	5.0-10.0	9.145
MW-7	1999	interior handway	RA-5/RA-5a and/or RA-7	good	3/4 inch Schedule 40 PVC	3.0-13.0	8.925
MW-8	1999	interior handway	RA-7	good	3/4 inch Schedule 40 PVC	5.5-10.5	8.62
MW-9	1999	interior handway	RA-5/RA-5a	good	3/4 inch Schedule 40 PVC	1.5-11.5	8.865
MW-10	1999	exterior handway	General	good	3/4 inch Schedule 40 PVC	5.0-10.0	8.11
MW-11	1999	exterior handway	RA-13	destroyed	3/4 inch Schedule 40 PVC	2.0-12.0	7.26
MW-12	1999	exterior handway	General	destroyed	3/4 inch Schedule 40 PVC	2.0-12.0	7.13
MW-13	1999	exterior handway	RA-2/General	good	3/4 inch Schedule 40 PVC	2.0-12.0	6.085
MW-14	1999	exterior handway	General	good	3/4 inch Schedule 40 PVC	2.0-12.0	6.595
MW-15	1999	exterior handway	General	good	3/4 inch Schedule 40 PVC	2.0-12.0	6.41
MW-19M	2002	exterior handway	RA-3	good	2 inch Schedule 40 PVC	22-32	4.485
MW-19D	2002	exterior handway	RA-3	good	2 inch Schedule 40 PVC	39-44	4.325
MW-101	2006	exterior handway	General	good	2 inch Schedule 40 PVC	7.0-10.0	5.73
MW-102	2006	exterior handway	General	good	2 inch Schedule 40 PVC	7.0-10.0	6.03
MW-103	2009	exterior handway	General	good	2 inch Schedule 40 PVC	3.0-13.0	5.12
MW-104	2009	exterior handway	General	good	2 inch Schedule 40 PVC	3.0-13.0	5.65
MW-105	2009	exterior handway	General/Off-site	good	2 inch Schedule 40 PVC	3.0-13.0	6.235
MW-ByOthers	unknown	exterior handway	General/Off-site	good	2 inch Schedule 40 PVC	2.0-12.0 (assumed)	6.08

MSL = Mean Sea Level

Table 3
2009 Groundwater Gauging Summary
Former Howe Furniture Facility
151 Woodward Ave.
Norwalk, CT
HRP#HOW0017.P3

Well ID	Tab Elevation (ft)	Depth to Groundwater (ft) 9/22/2009	Groundwater Elevation (ft) 9/22/2009
MW-1	8.715	NA	NA
MW-2	9.01	7.41	1.60
MW-6	9.145	7.46	1.69
MW-7	8.925	7.38	1.55
MW-8	8.62	6.97	1.65
MW-9	8.865	7.13	1.74
MW-10	8.11	6.50	1.61
MW-13	6.085	4.39	1.70
MW-15	6.41	4.91	1.50
MW-16	9.04	7.52	1.52
MW-17	6.495	3.75	2.75
MW-19D	4.485	2.94	1.55
MW-19M	4.325	2.71	1.62
MW-20	6.13	3.45	2.68
MW-101	5.73	4.26	1.47
MW-102	6.03	4.31	1.72
MW-103	5.12	3.52	1.60
MW-104	5.65	3.95	1.70
MW-105	6.235	4.07*	2.17*
MW-By Others	6.08	4.56	1.52

*MW-105 was measured on 11/25/2009

Table 4
2009 Groundwater Sampling Laboratory Results
Former Howe Furniture Property
151 Woodward Avenue
Norwalk, CT
HRP# HOW0017.P3

.	CAS #	Unit	1996 RVC GW	1996 ICVC GW	Proposed RVC GW	Proposed ICVC GW	CT DEEP SWPC	09I0595 09I0595-01SITE	09I0608 09I0608-01SITE	09I0608 09I0608-02SITE	09I0608 09I0608-03SITE	09I0595 09I0595-02SITE	09I0608 09I0608-04SITE	09I0595 09I0595-03SITE	09I0608 09I0608-05SITE	09I0608 09I0608-06SITE
Sample Depth (ft.)								**MW-2**	**MW-6**	**MW-7**	**MW-8**	**MW-9**	**MW-10**	**MW-13**	**MW-15**	**MW-16**
Date Collected								**9/21/2009**	**9/22/2009**	**9/22/2009**	**9/22/2009**	**9/21/2009**	**9/22/2009**	**9/21/2009**	**9/22/2009**	**9/22/2009**
Water-Metals																
Arsenic	7440-38-2	mg/l	NE	NE	NE	NE	0.004	(<0.01)	<0.002	**0.0053**	(<0.01)	(<0.01)	(<0.01)	0.0026	(<0.01)	(<0.01)
Barium	7440-39-3	mg/l	NE	NE	NE	NE	NE	0.11	<0.1	<0.1	<0.1	0.16	0.16	<0.1	<0.1	<0.1
Chromium, Total	7440-47-3	mg/l	NE	NE	NE	NE	0.11	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Lead	7439-92-1	mg/l	NE	NE	NE	NE	0.013	(<0.015)	<0.005	<0.005	(<0.015)	(<0.015)	(<0.015)	<0.005	(<0.015)	(<0.015)
Water-8260B ug/l	**CAS #**	**Unit**			**Proposed RVC GW**	**Proposed ICVC GW**	**DEEP SWPC**									
1,1,1,2-Tetrachloroethane	630-20-6	ug/l	12	50	2	64	NE	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	71-55-6	ug/l	20400	50000	6500	16000	62000	37	18	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	ug/l	23	100	1.8	54	110	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	79-00-5	ug/l	8000	19600	220	2900	1260	1.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane (freon 113)	76-13-1	ug/l	NE	NE	NE	NE	NE	7.4	<0.5	<0.5	<0.5	<0.5	20	<0.5	<0.5	2.8
1,1-Dichloroethane	75-34-3	ug/l	34600	50000	3000	41000	NE	38	4.9	2.1	5.9	<0.5	<0.5	<0.5	<0.5	0.59
1,1-Dichloroethylene	75-35-4	ug/l	1	6	190	920	96	0.87	<0.5	0.68	1.4	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-Dibromoethane (EDB)	106-93-4	ug/l	4	16	0.3	11	NE	(<0.5)	(<0.5)	(<0.5)	(<0.5)	(<0.5)	(<0.5)	(<0.5)	(<0.5)	(<0.5)
Acetone	67-64-1	ug/l	50000	50000	50000	50000	NE	<5	<5	<5	5.4	12	<5	<5	8.7	<5
Bromodichloromethane	75-27-4	ug/l	NE	NE	2.3	73	NE	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Carbon tetrachloride	56-23-5	ug/l	16	40	5.3	14	132	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	75-00-3	ug/l	NE	NE	12000	29000	NE	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethylene	156-59-2	ug/l	NE	NE	830	11000	NE	0.63	<0.5	1.7	0.75	<0.5	1.7	0.6	<0.5	0.53
Dichlorodifluoromethane	75-71-8	ug/l	NE	NE	93	1200	NE	<0.5	<0.5	6.2	<0.5	<0.5	0.53	<0.5	<0.5	<0.5
Methyltertbutyl ether	1634-04-4	ug/l	50000	50000	21000	50000	NE	<0.5	<0.5	<0.5	<0.5	0.65	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene	127-18-4	ug/l	1500	3820	340	810	88	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethylene	156-60-5	ug/l	NE	NE	1000	13000	NE	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	79-01-6	ug/l	219	540	27	67	2340	<1	<1	<1	<1	<1	1.1	<1	<1	<1
Vinyl chloride	75-01-4	ug/l	2	2	1.6	52	15750	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropene (Total)		ug/l	6	25	11	360	34000	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5	<5.5

Key

1	Parameter Detected Below Standards
1	Parameter Exceeds standards
NA	Parameter Not Analyzed

*Chromium SWPC standard is for Hexavalent Chromium.

Notes:
Shaded Cells indicate exceedances of one or more of the listed standards.
The Lab Sample No. is the merging of the Lab Sample ID and the Lab Sample Type.

CT DEEP = Connecticut Department of Energy and Environmental Protection
RVC = Residential Volatilization Criteria
ICVC = Industrial/Commercial Volatilization Criteria
SWPC = Surface Water Protection Criteria

NA = Not Submitted for analysis
NE = Not Established by CT DEP
mg/l = milligrams per liter
( ) = Indicates the stated minimum detectable level exceeds an RSR criteria.

Table 4
2009 Groundwater Sampling Laboratory Results
Former Howe Furniture Property
151 Woodward Avenue
Norwalk, CT
HRP# HOW0017.P3

.	CAS #	Unit	1996 RVC GW	1996 ICVC GW	Proposed RVC GW	Proposed ICVC GW	CT DEEP SWPC	09I0608 09I0608-07SITE	09I0595 09I0595-04SITE	09I0595 09I0595-05SITE	09I0608 09I0608-08SITE	09I0608 09I0608-09SITE	09I0595 09I0595-06SITE	09I0595 09I0595-07SITE	09I0595 09I0595-08SITE	09K0604 09K0604-01SITE	09I0595 09I0595-09SITE
Sample Depth (ft.)								**MW-17**	**MW-19D**	**MW-19M**	**MW-20**	**MW-101**	**MW-102**	**MW-103**	**MW-104**	**MW-105**	**MW By others**
Date Collected								**9/22/2009**	**9/21/2009**	**9/21/2009**	**9/22/2009**	**9/22/2009**	**9/21/2009**	**9/21/2009**	**9/21/2009**	**11/25/2009**	**9/21/2009**
Water-Metals																	
Arsenic	7440-38-2	mg/l	NE	NE	NE	NE	0.004	(<0.01)	**0.03**	**0.012**	**0.041**	<0.002	**0.0075**	**0.0054**	**0.0074**	NA	**0.0045**
Barium	7440-39-3	mg/l	NE	NE	NE	NE	NE	<0.1	<0.1	0.16	0.11	<0.1	0.32	<0.1	0.23	NA	0.12
Chromium, Total	7440-47-3	mg/l	NE	NE	NE	NE	0.11	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	<0.01
Lead	7439-92-1	mg/l	NE	NE	NE	NE	0.013	(<0.015)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.017**	NA	<0.005
Water-8260B ug/l	**CAS #**	**Unit**			**Proposed RVC GW**	**Proposed ICVC GW**	**DEEP SWPC**										
1,1,1,2-Tetrachloroethane	630-20-6	ug/l	12	50	2	64	NE	<0.5	<0.5	<0.5	<0.5	(<5)	<0.5	<0.5	<0.5	(<5)	<0.5
1,1,1-Trichloroethane	71-55-6	ug/l	20400	50000	6500	16000	62000	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<0.5	<5	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	ug/l	23	100	1.8	54	110	<0.5	<0.5	<0.5	<0.5	(<2.5)	<0.5	<0.5	<0.5	(<5)	<0.5
1,1,2-Trichloroethane	79-00-5	ug/l	8000	19600	220	2900	1260	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<0.5	<5	<0.5
1,1,2-Trichlorotrifluoroethane (freon 113)	76-13-1	ug/l	NE	NE	NE	NE	NE	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<0.5	<5	<0.5
1,1-Dichloroethane	75-34-3	ug/l	34600	50000	3000	41000	NE	<0.5	0.81	3.7	<0.5	<2.5	<0.5	<0.5	<0.5	<5	0.64
1,1-Dichloroethylene	75-35-4	ug/l	1	6	190	920	96	<0.5	<0.5	1.8	<0.5	<2.5	<0.5	<0.5	<0.5	<5	<0.5
1,2-Dibromoethane (EDB)	106-93-4	ug/l	4	16	0.3	11	NE	(<0.5)	(<0.5)	(<0.5)	(<0.5)	(<2.5)	(<0.5)	(<0.5)	(<0.5)	(<5)	(<0.5)
Acetone	67-64-1	ug/l	50000	50000	50000	50000	NE	<5	<5	<5	<5	<25	<5	<5	<5	<50	<5
Bromodichloromethane	75-27-4	ug/l	NE	NE	2.3	73	NE	<0.5	<0.5	<0.5	<0.5	(<25)	<0.5	<0.5	<0.5	(<5)	<0.5
Carbon tetrachloride	56-23-5	ug/l	16	40	5.3	14	132	<1	<1	<1	<1	(<25)	<1	<1	<1	<5	<1
Chloroethane	75-00-3	ug/l	NE	NE	12000	29000	NE	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<0.5	<5	<0.5
cis-1,2-Dichloroethylene	156-59-2	ug/l	NE	NE	830	11000	NE	<0.5	6.3	15	7.9	<2.5	<0.5	3.5	2.4	<5	<0.5
Dichlorodifluoromethane	75-71-8	ug/l	NE	NE	93	1200	NE	<0.5	<0.5	<0.5	<0.5	<2.5	<0.5	<0.5	<0.5	<5	<0.5
Methyltertbutyl ether	1634-04-4	ug/l	50000	50000	21000	50000	NE	<0.5	6.6	1.8	1.3	<2.5	<0.5	0.97	2.2	79	11
Tetrachloroethylene	127-18-4	ug/l	1500	3820	340	810	88	<1	<1	<1	1.5	<5	<1	<1	<1	<10	<1
trans-1,2-Dichloroethylene	156-60-5	ug/l	NE	NE	1000	13000	NE	<1	2.8	<1	<1	<5	<1	<1	<1	<10	<1
Trichloroethylene	79-01-6	ug/l	219	540	27	67	2340	<1	2.2	<1	2.8	<5	<1	<1	<1	<10	<1
Vinyl chloride	75-01-4	ug/l	2	2	1.6	52	15750	<1	<1	<1	<1	(<5)	<1	4.2	4.4	(<10)	2.8
1,3-Dichloropropene (Total)		ug/l	6	25	11	360	34000	<5.5	<5.5	<5.5	<5.5	(<50)	<5.5	<5.5	<5.5	<10	<5.5

Key

1	Parameter Detected Below Standards
1	Parameter Exceeds standards
NA	Parameter Not Analyzed

*Chromium SWPC standard is for Hexavalent Chromium.

Notes:
Shaded Cells indicate exceedances of one or more of the listed standards.
The Lab Sample No. is the merging of the Lab Sample ID and the Lab Sample Type.

CT DEEP = Connecticut Department of Energy and Environmental Protection
RVC = Residential Volatilization Criteria
ICVC = Industrial/Commercial Volatilization Criteria
SWPC = Surface Water Protection Criteria

NA = Not Submitted for analysis
NE = Not Established by CT DEP
mg/l = milligrams per liter
( ) = Indicates the stated minimum detectable level exceeds an RSR criteria.

Table 4
2009 Groundwater Sampling Laboratory Results
Former Howe Furniture Property
151 Woodward Avenue
Norwalk, CT
HRP# HOW0017.P3

.	CAS #	Unit						09I0595 09I0595-10SITE	09I0595 9I0595-11SIT	09I0595 09I0595-11SITE
.								**TB-01**	**EB-01**	**EB-01-new**
Sample Depth (ft.)										
Date Collected								**9/21/2009**	**9/21/2009**	**9/21/2009**
Water-Metals			**1996 RVC GW**	**1996 ICVC GW**	**Proposed RVC GW**	**Proposed ICVC GW**	**CT DEEP SWPC**			
Arsenic	7440-38-2	mg/l	NE	NE	NE	NE	0.004	NA	(<0.01)	<0.002
Barium	7440-39-3	mg/l	NE	NE	NE	NE	NE	NA	<0.1	NA
Chromium, Total	7440-47-3	mg/l	NE	NE	NE	NE	0.11	NA	<0.01	NA
Lead	7439-92-1	mg/l	NE	NE	NE	NE	0.013	NA	(<0.015)	<0.005
Water-8260B ug/l	**CAS #**	**Unit**			**Proposed RVC GW**	**Proposed ICVC GW**	**DEEP SWPC**			
1,1,1,2-Tetrachloroethane	630-20-6	ug/l	12	50	2	64	NE	<0.5	<0.5	NA
1,1,1-Trichloroethane	71-55-6	ug/l	20400	50000	6500	16000	62000	<0.5	<0.5	NA
1,1,2,2-Tetrachloroethane	79-34-5	ug/l	23	100	1.8	54	110	<0.5	<0.5	NA
1,1,2-Trichloroethane	79-00-5	ug/l	8000	19600	220	2900	1260	<0.5	<0.5	NA
1,1,2-Trichlorotrifluoroethane (freon 113)	76-13-1	ug/l	NE	NE	NE	NE	NE	<0.5	<0.5	NA
1,1-Dichloroethane	75-34-3	ug/l	34600	50000	3000	41000	NE	<0.5	<0.5	NA
1,1-Dichloroethylene	75-35-4	ug/l	1	6	190	920	96	<0.5	<0.5	NA
1,2-Dibromoethane (EDB)	106-93-4	ug/l	4	16	0.3	11	NE	(<0.5)	(<0.5)	NA
Acetone	67-64-1	ug/l	50000	50000	50000	50000	NE	<5	6.4	NA
Bromodichloromethane	75-27-4	ug/l	NE	NE	2.3	73	NE	<0.5	<0.5	NA
Carbon tetrachloride	56-23-5	ug/l	16	40	5.3	14	132	<1	<1	NA
Chloroethane	75-00-3	ug/l	NE	NE	12000	29000	NE	<0.5	<0.5	NA
cis-1,2-Dichloroethylene	156-59-2	ug/l	NE	NE	830	11000	NE	<0.5	<0.5	NA
Dichlorodifluoromethane	75-71-8	ug/l	NE	NE	93	1200	NE	<0.5	<0.5	NA
Methyltertbutyl ether	1634-04-4	ug/l	50000	50000	21000	50000	NE	<0.5	<0.5	NA
Tetrachloroethylene	127-18-4	ug/l	1500	3820	340	810	88	<1	<1	NA
trans-1,2-Dichloroethylene	156-60-5	ug/l	NE	NE	1000	13000	NE	<1	<1	NA
Trichloroethylene	79-01-6	ug/l	219	540	27	67	2340	<1	<1	NA
Vinyl chloride	75-01-4	ug/l	2	2	1.6	52	15750	<1	<1	NA
1,3-Dichloropropene (Total)		ug/l	6	25	11	360	34000	<5.5	<5.5	NA

Key

1	Parameter Detected Below Standards
1	Parameter Exceeds standards
NA	Parameter Not Analyzed

*Chromium SWPC standard is for Hexavalent Chromium.

Notes:
Shaded Cells indicate exceedances of one or more of the listed standards.
The Lab Sample No. is the merging of the Lab Sample ID and the Lab Sample Type.

CT DEEP = Connecticut Department of Energy and Environmental Protection
RVC = Residential Volatilization Criteria
ICVC = Industrial/Commercial Volatilization Criteria
SWPC = Surface Water Protection Criteria

NA = Not Submitted for analysis
NE = Not Established by CT DEP
mg/l = milligrams per liter
( ) = Indicates the stated minimum detectable level exceeds an RSR criteria.

APPENDIX A
TECHNICAL MEMORANDA

RA-1: Former 3,000-gallon Fuel Oil UST
and
RA-12: Former Hazardous Waste Storage Area

Technical Memorandum

Former Howe Furniture
151 Woodward Ave, Norwalk, CT

I. RA Information

RA-1: A 3,000-gallon underground #2 heating oil storage tank was formerly located west of the Howe Furniture Building. This tank was installed in 1977 and was removed from the site in April or May of 1988. This RA coincides with RA-12, a former exterior hazardous waste storage area.

RA-12: From approximately 1982 to 1985, hazardous waste was reportedly stored exterior to the western portion of the Howe Furniture Building. Approximately eight to ten drums of waste solvent, paint, lacquer and/or paint stripper were stored in this area. Historical site inspections report staining observed on the pavement where the drums were stored.

The locations of RA-1 and RA-12 are depicted on Figure 2 of the *Capstone Phase III Investigation Report*; the locations of all sampling points are depicted on Figure 3. The results of all soil sampling are included on tables attached to this Technical Memo. A synopsis of all investigations is presented in the Conceptual Site Model Table (Table 1) of the *Capstone Phase III Investigation Report.* Investigations are discussed in chronological order in Sections III through VII below.

II. Release Information

RA-1: Potential release mechanisms include spills affecting surface media and shallow soils and container failure affecting subsurface soils at the depth of the tank graves. Contaminants of Concern for RA-1 include ETPH, SVOCs, and aromatic VOCs.

RA-12: Potential release mechanisms include spills and/or container failure affecting surface media and shallow soils. Contaminants of Concern for RA-12 include ETPH, SVOCs, VOCs, PCBs and metals.

III. Phase II Investigation

Report: *Phase II Subsurface Investigation of Areas of Concern (AOCs) Numbers 1 and 12*, dated September 25, 1995, prepared by HRP Associates, Inc.

To evaluate the potential for releases, six (6) soil borings (B-1 through B-6) were installed in this area in 1995, and analyzed for TPH by EPA Method 418.1, 8 RCRA metals by total mass and SPLP, VOCs by EPA methods 8010, 8015, and 8020, acetone, phenols, formaldehyde, and pH. Borings B-1 through B-5 were completed as groundwater monitoring wells after installation (referred to as B-1MW through B-5MW). Soil was observed to consist of grey, fine to medium sand with little silt and gravel, overlying grey, sandy, organic silt. No staining or odors were observed during collection of the soil samples. PID readings ranged from 0 to 30 ppm. Based on field observations and PID readings, six (6) soil samples were submitted from depths of 0.5-2.5 ft below grade and 2.5-4.5 ft below grade.

Results of Soil Analysis

TPH: TPH was detected in four of the six samples submitted for analysis at concentrations ranging from 3,980 ppm in B-1 (0.5-2.5 ft) to 40 ppm in B-3 (0.5-2.5 ft).

Other: No VOCs, acetone, phenols, formaldehyde, or leachable metals were detected in subsurface and surface soils collected from RA-1/RA-12. The pH of soils collected in this area ranged from 6.3 to 8.4.

The Phase II investigation concluded that a shallow release of petroleum from the former heating oil UST was detected in RA-1. No evidence of a release of hazardous materials from the drum storage area was observed.

IV. Phase III Investigation

Report: *Phase III Subsurface Investigation of AOC Numbers 1 and 12,* dated November 22, 1995, prepared by HRP Associates, Inc.

HRP conducted a Phase III investigation of the degree and extent of petroleum contamination identified during Phase II activities. The Phase III investigation consisted of the installation of ten (10) soil borings (TB-A through TB-J) in the vicinity of previous borings B-1 and B-2, where TPH was detected at the highest concentrations during the Phase II.

PID readings of 26.2 to 2,643 ppm were observed during collection of the soil samples. Based upon field observations and PID readings, 18 soil samples were collected from depths of 0.5-2.5 ft and 2.5-4.5 ft below grade. Soil was analyzed for TPH by Method 418.1.

Results of Soil Analyses

TPH: Petroleum was detected in 17 of the 18 soil samples submitted for laboratory analysis at concentrations ranging from 36 to 1,899 ppm. The detections of TPH in several samples exceeded the GA PMC of 500 ppm.

Based on Phase III investigations, HRP recommended that soil removal be conducted to achieve compliance with RSR criteria.

V. Tank Closure Sampling

Report: *Supervision of Soil Remediation in AOC Numbers 1 and 12*, dated June 14, 1996, prepared by HRP Associates, Inc.

December 2005, HRP supervised the installation of test pits in the vicinity of previously-detected TPH contamination to define the extent of soil remediation. Six test pits (TP-1 through TP-6) were installed at the presumed extent of contamination and one (1) soil sample was collected at each location for analysis for TPH. No TPH was detected in samples collected from test pits TP-2 through TP-4. TPH was detected at low levels (36 to 60 ppm) in test pits TP-1, TP-5, and TP-6, which were all well below the GA PMC of 500 ppm. As such, test pits TP-1 through TP-6 were determined to represent the limits of the horizontal extent of contamination. The vertical extent of contamination was assumed to be 2.5 feet below grade in most of the remedial area, and 4.5 feet below grade in a limited area surrounding boring TB-I, based on results of the Phase II investigation.

Subsequent to installation and sampling of the test pits, HRP supervised the removal of 899.2 tons of contaminated soil. At the time of remediation, a catch basin and associated piping and other site soils were also removed. All excavated soil and debris was disposed off-site (waste disposal documentation was included as an attachment to the 1996 report). The samples collected during Phase II, III, and test pit sampling were utilized as confirmatory samples to demonstrate that all contaminated soil had been removed. No additional confirmatory sampling was conducted subsequent to soil excavation.

VI. Additional Investigations

Reports: *Phase II Subsurface Investigation*, dated July 14, 1999, prepared by HRP Associates, Inc.

In 1999, HRP conducted additional soil investigations throughout the former Howe Furniture property, which included the installation of borings TB-4 and TB-5 in the vicinity of RA-1/RA-12. These two borings installed for general site evaluation and not specifically to evaluate releases from the former heating oil UST in RA-1. Samples from 4-6 ft below grade were submitted for analysis from each boring for TPH by EPA Method 418.1, total and leachable 8 RCRA metals by mass analysis and SPLP. Sample results indicated that low levels of total metals were detected in the two soil samples. SPLP lead was detected at 0.006 mg/l in TB-4 and TPH was detected in TB-5 at 150 ppm. All detections were well below all applicable RSR standards.

RFI VCA Work Plan and Quality Assurance Program Plan (QAPP), dated February 13, 2002, prepared by HRP Associates, Inc.

Environmental Condition Assessment Form, dated August 2003, prepared by HRP Associates, Inc.

In 2002, HRP conducted additional soil investigations in RA-1 to address data gaps identified in the RFI VCA Work Plan, including evaluation of potential soil contamination at depths greater than 4.5 feet below grade within the footprint of historical soil remediation and along the building foundation. Uncertainty in the previous data set arose due to the lack of post-excavation confirmatory soil sampling.

In November 2002, HRP installed 10 additional soil borings (AOC1+12-TB-8 through AOC1+12-TB-18) within the soil excavation area to confirm that all contaminated soil above RSR standards had been removed during the 1995 remedial activities. Borings penetrated to depths between 4 and 8 feet below grade. Soil was described as grey fine to medium sand. An organic odor and darker grey to black organic rich soil layer were encountered at the approximate depth of the water table (~ 4ft below grade) in borings TB-10, TB-11, TB-12, and TB-18.

Soil samples from each boring (11 total samples) from various depths (0-2 ft to 6-8 ft) were submitted for laboratory analysis for ETPH by the Connecticut ETPH Method. Three samples (TB10 6-8ft, TB-11 0-2ft, and TB-15 2-4 ft) were also analyzed for total and SPLP DEP 15 metals, VOCs, SVOCs, TAL/TCL metals, PCBs. Sample TB-18 0-2ft was also analyzed for total and SPLP mercury; TB-9 0-2 ft was analyzed for total and SPLP nickel. All laboratory data was independently Tier II validated to ensure data usability.

ETPH was detected at concentrations ranging from 3 to 920 ppm in each soil sample tested. Three detections of ETPH exceeded the RDEC and GA PMC of 500 ppm: TB-9 0-2ft, TB-11 0-2ft, and TB-13 0-2ft. Various metals were also detected by mass analysis in soil at concentrations below RSR standards, except for an isolated detection of total chromium (159 mg/kg, which exceeds the default RDEC for hexavalent chromium of 100 mg/kg). Arsenic and vanadium were detected by SPLP method at concentrations below the GA PMC.

It is noted that the groundwater classification for the subject site was changed from GA to GB in 2004. Thus, previous exceedances of the Pollutant Mobility Criteria (PMC) were re-evaluated to be consistent with the new groundwater class. As a result of the application of the GB PMC instead of the GA PMC, the only remaining exceedances in RA-1 are exceedances of the DEC.

Report: *Focused Subsurface Soil Investigation*, dated February 2007, prepared by HRP Associates, Inc.

In 2006, in order to further confirm that the soil remediation was effective in the area of historical excavations, and to confirm the clean bottom closure of the excavations, 11 test borings (TB-1 through TB-11) were installed in December 2006. Soil samples were collected from just below the depth of the bottom of the two excavation areas, in native material.

Ten soil samples and one duplicate soil sample were analyzed for ETPH. Low-level ETPH was detected in four of the ten samples at concentrations between 13 and 61 ppm. These detections are well below the applicable RSR criteria. These results confirm that the historical remediation in RA-1 removed the petroleum contaminated soil.

VII. Groundwater Investigation

Monitoring wells B-1MW, B-2MW, B-3MW (renamed MW-17), B-4MW (renamed MW-18), B-5MW (renamed MW-20) were installed to evaluate groundwater quality at RA-1/RA-12 in 1995. Wells B-1MW, B-2MW, and B-4MW were destroyed during remedial activities at the site. However the remaining wells have been sampled 12 times during events dating 1995 to 2009. Metals, PCE, TCE, MTBE, and ETPH have been detected in groundwater in wells MW-17 and MW-20 over time. However, the noted contaminants detected in the above-listed wells are likely attributable to site-wide degradation of groundwater quality and not a specific release from RA-1/RA-12. A discussion of groundwater monitoring can be found in Section 4.0 of the *Capstone Phase III Investigation Report.*

VIII. Current Status

The degree and extent of the release of petroleum to shallow soils in RA-1 has been characterized through the collection of over 50 soil samples. No evidence of a release of hazardous material from the former exterior storage area has been encountered. All soil exceeding the RSR standards has been removed from the site during previous remedial actions, except for three detections of ETPH above the RDEC, and one detection of total chromium above the hexavalent chromium RDEC and I/C DEC.

Between 1995 and 2006, a total of 11 soil samples were collected by HRP and analyzed for total metals, including total chromium, as indicated in the attached summary table. It should be noted that the CT RSR does not specify a DEC standard for total chromium. Instead, the CT RSR provide DEC standards for hexavalent chromium and trivalent chromium. The samples analyzed for total chromium were compared to the hexavalent standard as a conservative measure, since hexavalent chromium is more toxic than trivalent chromium. As mentioned above, total chromium was detected above the I/C DEC for hexavalent chromium in a single soil sample (TB-10) collected from the 6 to 8 foot depth interval on November 4, 2002.

This detection of total chromium in TB-10 of 159 milligrams per kilogram (mg/kg) is several orders of magnitude below the I/C DEC for trivalent chromium of 51,000 mg/kg. No other contaminants were detected in conjunction with the chromium in sample TB-10. Total chromium was detected at much lower levels ranging from 15.4 to31.4 mg/kg (an order of magnitude less than TB-10) in only four other samples (TB-11, TB-15, TB-4 and TB-5) collected from this release area. The isolated nature of the chromium detection, the lack of chromium detections at elevated levels in shallower soils (which would represent the worst-case samples in a shallow-release area like a surface drum storage area), the conservative nature of comparison of total chromium levels to hexavalent chromium standards, and the tendency of hexavalent chromium to be extremely temporally transient

in natural setting indicate that no release of chromium has occurred from RA-1 and RA-12.

It is anticipated that an Environmental Land Use Restriction (ELUR) will restrict the site to industrial/commercial use, and will provide for a "no dig" restriction under the site building. Because the site will be limited to industrial and commercial uses only, any previous ETPH detections that exceeded the Res DEC will no longer be of concern for the subject site. The single detection of total chromium is not a true exceedance of the RDEC and I/C DEC for hexavalent chromium, as it is unlikely that all of the chromium detected is of the hexavalent variety. Hexavalent chromium is very unstable in the soil environment and typically only persists in the unstable form in groundwater. Hexavalent chromium has not been detected above standard in the groundwater at the site.

AOC		RDEC	I/C DEC	GB PMC	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12
SAMP_ID					TB-01	TB-02	TB-03	TB-04	TB-04MS/MSD	TB-05	TB-06	TB-07	TB-08	TB-09	TB-11	TB-8(4-6)
SAMP_DATE					12/29/2006	12/29/2006	12/29/2006	12/29/2006	12/29/2006	12/29/2006	12/29/2006	12/29/2006	12/29/2006	12/29/2006	12/29/2006	11-04-02
ANALYTE	Units				2' - 2.5'	2.67' - 3.33'	1.58' - 2.25'	2.16' - 2.67'	3.5' - 4'	1.58' - 2.25'	3.33' - 4'	3.33' - 4'	3.75' - 5'	3.5' - 4.5'	3.5' - 4.25'	
Extractable Total Petroleum Hydrocarbons	MG/KG	500	2500	2500	<12	20	13	<11	<12	21	<13	<13	<16	61	<12	22
TPH - 418.1	MG/KG	500	2500	2500												
pH		NE	NE	NE												
Metals by Mass Analysis																
Arsenic	MG/KG	10	10	NE												
Barium	MG/KG	4700	140000	NE												
Cadmium	MG/KG	34	1000	NE												
Chromium	MG/KG	100	100	NE												
Lead	MG/KG	400	1000	NE												
Mercury	MG/KG	20	610	NE												
Metals by SPLP																
Arsenic	UG/L	NE	NE	500												
Lead	UG/L	NE	NE	150												
Vanadium	UG/L	NE	NE	500												
Metals by TCLP																
VOCs																
2-Butanone	UG/KG	500000	1000000	80000												
Acetone	UG/KG	500000	1000000	140000												
Qualifiers/Abbreviations																
Bold Values Exceed Standards																
Blank = not analyzed																
Res DEC = CT DEP Remediation Standard Regulation numerical Residential Direct Exposure Criteria																
I/C DEC = CT DEP Remediation Standard Regulation Industrial/Commercial numerical Direct Exposure Criteria																
GB PMC = CT DEP Remediation Standard Regulation numerical Pollutant Mobility Criteria																
ug/kg = microgram per kilogram																
mg/kg = milligram per kilogram																
mg/L = milligram per liter																

AOC		RDEC	I/C DEC	GB PMC	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12
SAMP_ID					(Dup. of TB-8 (4-6))	(Dup. of TB-8 (4-6))	TB-9(0-2)	TB-10(6-8)	TB-11(0-2)	TB-12(2-4)	TB-13(0-2)	TB-14(2-4)	TB-14(2-4)	TB-15(2-4)
SAMP_DATE					11-04-02	11-04-02	11-04-02	11-04-02	11-04-02	11-04-02	11-04-02	11-04-02	11-04-02	11-04-02
ANALYTE	Units													
Extractable Total Petroleum Hydrocarbons	MG/KG	500	2500	2500	12	10	**540**	6	**920**	360	**720**	8	3	23
TPH - 418.1	MG/KG	500	2500	2500										
pH		NE	NE	NE										
Metals by Mass Analysis														
Arsenic	MG/KG	10	10	NE				1.8	2.9					4.8
Barium	MG/KG	4700	140000	NE				30.6	81.9					61.5
Cadmium	MG/KG	34	1000	NE				0.18	0.28					0.35
Chromium	MG/KG	100	100	NE				**159**	19.7					22.4
Lead	MG/KG	400	1000	NE				4.7	7.9					11
Mercury	MG/KG	20	610	NE				ND<0.016	ND<0.015					0.032
Metals by SPLP														
Arsenic	UG/L	NE	NE	500				ND<3	ND<3					3.4
Lead	UG/L	NE	NE	150				ND<2.6	ND<1.4					ND<2.5
Vanadium	UG/L	NE	NE	500				3.3	4.2					4
Metals by TCLP														
VOCs														
2-Butanone	UG/KG	500000	1000000	80000				6						19
Acetone	UG/KG	500000	1000000	140000				65						84
Qualifiers/Abbreviations														
Bold Values Exceed Standards														
Blank = not analyzed														
Res DEC = CT DEP Remediation Standard Regulation numerical Residential Direct I														
I/C DEC = CT DEP Remediation Standard Regulation Industrial/Commercial numerica														
GB PMC = CT DEP Remediation Standard Regulation numerical Pollutant Mobility Cr														
ug/kg = microgram per kilogram														
mg/kg = milligram per kilogram														
mg/L = milligram per liter														

AOC		RDEC	I/C DEC	GB PMC	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12
SAMP_ID					TB-17(0-2)	TB-18(0-2)	TB-18(2-4)	B-1MW	B-2MW	B-3MW	B-4MW	B-5MW	B-6	TB-A	TB-A	TB-B
SAMP_DATE					11-04-02	11-04-02	11-04-02	July - 1995	July - 1995	July - 1995	July - 1995	July - 1995	July - 1995	Oct-1995	Oct-1995	Oct-1995
ANALYTE	Units							(0.5-2.5')	(0.5-2.5')	(0.5-2.5')	(2.5-4.5')	(2.5-4.5')	(2.5-4.5')	(0.5-2.5')	(2.5-4.5')	(2.5-4.5')
Extractable Total Petroleum Hydrocarbons	MG/KG	500	2500	2500	46		260									
TPH - 418.1	MG/KG	500	2500	2500				**3980**	**1320**	40	236	ND	ND	**756**	68	76
pH		NE	NE	NE				8.4	8	7.9	8.2	7.9	7.8			
Metals by Mass Analysis																
Arsenic	MG/KG	10	10	NE				ND	ND	ND	ND	ND	ND			
Barium	MG/KG	4700	140000	NE				ND	ND	ND	ND	ND	ND			
Cadmium	MG/KG	34	1000	NE				ND	ND	ND	ND	ND	ND			
Chromium	MG/KG	100	100	NE				ND	ND	ND	ND	ND	ND			
Lead	MG/KG	400	1000	NE				ND	ND	ND	ND	ND	ND			
Mercury	MG/KG	20	610	NE		0.096		ND	ND	ND	ND	ND	ND			
Metals by SPLP																
Arsenic	UG/L	NE	NE	500												
Lead	UG/L	NE	NE	150												
Vanadium	UG/L	NE	NE	500												
Metals by TCLP																
VOCs																
2-Butanone	UG/KG	500000	1000000	80000				BDL	BDL	BDL	BDL	BDL	BDL			
Acetone	UG/KG	500000	1000000	140000				BDL	BDL	BDL	BDL	BDL	BDL			
Qualifiers/Abbreviations																
Bold Values Exceed Standards																
Blank = not analyzed																
Res DEC = CT DEP Remediation Standard Regulation numerical Residential Direct I																
I/C DEC = CT DEP Remediation Standard Regulation Industrial/Commercial numerica																
GB PMC = CT DEP Remediation Standard Regulation numerical Pollutant Mobility Cr																
ug/kg = microgram per kilogram																
mg/kg = milligram per kilogram																
mg/L = milligram per liter																

AOC		RDEC	I/C DEC	GB PMC	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12
SAMP_ID					TB-C	TB-C	TB-D	TB-E	TB-E	TB-F	TB-F	TB-G	TB-G	TB-H	TB-H	TB-I
SAMP_DATE					Oct-1995	Oct-1995	Oct-1995	Oct-1995	Oct-1995	Oct-1995	Oct-1995	Oct-1995	Oct-1995	Oct-1995	Oct-1995	Oct-1995
ANALYTE	Units				(0.5-2.5')	(2.5-4.5')	(2.5-4.5')	(0.5-2.5')	(2.5-4.5')	(0.5-2.5')	(2.5-4.5')	(0.5-2.5')	(2.5-4.5')	(0.5-2.5')	(2.5-4.5')	(0.5-2.5')
Extractable Total Petroleum Hydrocarbons	MG/KG	500	2500	2500												
TPH - 418.1	MG/KG	500	2500	2500	**1899**	40	ND	**540**	364	104	208	396	36	72	36	56
pH		NE	NE	NE												
Metals by Mass Analysis																
Arsenic	MG/KG	10	10	NE												
Barium	MG/KG	4700	140000	NE												
Cadmium	MG/KG	34	1000	NE												
Chromium	MG/KG	100	100	NE												
Lead	MG/KG	400	1000	NE												
Mercury	MG/KG	20	610	NE												
Metals by SPLP																
Arsenic	UG/L	NE	NE	500												
Lead	UG/L	NE	NE	150												
Vanadium	UG/L	NE	NE	500												
Metals by TCLP																
VOCs																
2-Butanone	UG/KG	500000	1000000	80000												
Acetone	UG/KG	500000	1000000	140000												
Qualifiers/Abbreviations																
Bold Values Exceed Standards																
Blank = not analyzed																
Res DEC = CT DEP Remediation Standard Regulation numerical Residential Direct I																
I/C DEC = CT DEP Remediation Standard Regulation Industrial/Commercial numerica																
GB PMC = CT DEP Remediation Standard Regulation numerical Pollutant Mobility Cr																
ug/kg = microgram per kilogram																
mg/kg = milligram per kilogram																
mg/L = milligram per liter																

AOC		RDEC	I/C DEC	GB PMC	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12	RA-1/RA-12
SAMP_ID					TB-I	TB-J	TB-J	TP-1	TP-2	TP-3	TP-4	TP-5	TP-6	TB-4	TB-5
SAMP_DATE					Oct-1995	Oct-1995	Oct-1995	1995	1995	1995	1995	1995	1995	1999	1999
ANALYTE	Units				(2.5-4.5')	(0.5-2.5')	(2.5-4.5')	(2.5-4.5')	(2.5-4.5')	(2.5-4.5')	(2.5-4.5')	(0.5-2.5')	(0.5-2.5')		
Extractable Total Petroleum Hydrocarbons	MG/KG	500	2500	2500											
TPH - 418.1	MG/KG	500	2500	2500	**812**	272	ND	40	ND	ND	ND	36	60	ND	150
pH		NE	NE	NE											
Metals by Mass Analysis															
Arsenic	MG/KG	10	10	NE										2.8	6.8
Barium	MG/KG	4700	140000	NE										41	63
Cadmium	MG/KG	34	1000	NE										ND	0.6
Chromium	MG/KG	100	100	NE										15.4	31.4
Lead	MG/KG	400	1000	NE										23.8	31.4
Mercury	MG/KG	20	610	NE										0.02	0.26
Metals by SPLP															
Arsenic	UG/L	NE	NE	500										ND	
Lead	UG/L	NE	NE	150										6	
Vanadium	UG/L	NE	NE	500											
Metals by TCLP															
VOCs														ND	ND
2-Butanone	UG/KG	500000	1000000	80000											
Acetone	UG/KG	500000	1000000	140000											
Qualifiers/Abbreviations															
Bold Values Exceed Standards															
Blank = not analyzed															
Res DEC = CT DEP Remediation Standard Regulation numerical Residential Direct I															
I/C DEC = CT DEP Remediation Standard Regulation Industrial/Commercial numerica															
GB PMC = CT DEP Remediation Standard Regulation numerical Pollutant Mobility Cr															
ug/kg = microgram per kilogram															
mg/kg = milligram per kilogram															
mg/L = milligram per liter															

RA-2: Former Ignitable Material Storage Area

Technical Memorandum

Former Howe Furniture
151 Woodward Ave, Norwalk, CT

I. RA Information

The former ignitable material storage area occupied a 10 ft by 15 ft bermed area inside the former Howe Furniture building. Storage of bulk solvents, acids, paints, stains, lacquers, and paint thinners reportedly occurred here during Howe Furniture operations at the site. The dates of use of the storage area are not certain, but they ceased when Howe Furniture operations ceased in 1995. Site inspections of the storage area have noted that staining was observed on the walls, presumably from splashing, but that the concrete floor appeared to be in good condition, without cracks. A ventilation hole (essentially a pipe perforating the wall) was observed at floor level within the storage area. In some reports, the ventilation hole is also referred to as the "venthood".

The location of RA-2 is depicted on Figure 2 of the *Capstone Phase III Investigation Report*; the locations of all sampling points are depicted on Figure 3. A synopsis of all investigations is presented in the Conceptual Site Model Table (Table 1) of the *Capstone Phase III Investigation Report.* The results of concrete chip and soil sampling are included on tables attached to this Technical Memo. Investigations are discussed in chronological order in Sections III through V below.

II. Release Information

Potential release mechanisms include spills to the concrete floor, having the potential to affect soils immediately beneath the slab. Larger spills or container failures could have potentially migrated through the low-level ventilation hole to the exterior and affected shallow soils adjacent to the building. Contaminants of Concern for RA-2 include ETPH, VOCs, pH, metals, and PCBs.

III. Phase II Investigation

Report: *Phase II Subsurface Investigation of Areas of Concern (AOCs) Numbers 1 and 12*, dated September 25, 1995, prepared by HRP Associates, Inc.

During the 1995 evaluation of RA-1/RA-12, a single soil boring, B-8, was installed exterior to RA-2, in the vicinity of the ventilation hole to evaluate the potential for spills from the ignitable storage area to have migrated to the soils exterior through the vent hole. Boring B-8 could not be installed in the immediate vicinity of the vent hole due to access restrictions of the drill rig and the presence of a high-voltage electrical transformer, and thus was off-set approximately 10 feet to the north. B-8 penetrated to a depth of 4.5 feet. Soil at B-8 was observed to consist of brown fine to medium sand with

some silt and fine to coarse gravel. No staining or odors were observed and no soil sampled was submitted for analysis due to the distance away from the vent hole. To directly evaluate the soil beneath the vent hole, a grab samples was collected by hand-auger from immediately beneath the vent approximately 1 week after installation of B-8. The sample was labeled "venthood" and was collected from 0.5-1 ft below the asphalt pavement. The "venthood" sample was analyzed for TPH by EPA Method 418.1, 8 RCRA metals by SPLP, VOCs by EPA methods 8010, 8015, and 8020, acetone, phenols, formaldehyde, pH, and PCBs. Please note that this report and other subsequent reports refer to boring B-8 and sample "venthood" interchangeably, however only a sample collected from immediately beneath the ventilation hole was analyzed by the laboratory.

Results of Soil Analysis

TPH: TPH was detected at a concentration of 4,000 ppm in the venthood soil sample.

Other: No PCBs, VOCs, acetone, phenols, formaldehyde, or leachable metals were detected in soil beneath the venthood. The pH of soil collected in this area was 7.4.

The Phase II investigation concluded that a shallow release of petroleum from the venthood was detected in RA-2.

Report: *Summary of Investigations/Removal Activities Performed Inside the Howe Furniture Corporation Manufacturing Facility*, dated June 1996, prepared by HRP Associates, Inc.

HRP was directed to perform an evaluation of interior areas of concern to assess the potential for contamination of the concrete floor and underlying soils after the cessation of Howe Furniture manufacturing operations. HRP collected two concrete chip samples, AOC2S and AOC2N, from the floor within the former ignitables storage area. A soil sample, AOC2Soil was also collected from the soil immediately beneath the slab where a crack was observed in the floor.

The concrete chip samples were analyzed for VOCs, TCLP 8 RCRA metals, plus copper, nickel and zinc, and SPLP copper, lead, and zinc. The soil sample was analyzed for VOCs, TCLP 8 RCRA metals, plus copper, nickel and zinc, and SPLP barium, copper, lead, nickel, and zinc.

Results of Concrete Chip Analysis

VOCs: MIBK, toluene, ethyl benzene, and xylenes were detected in AOC2S at concentrations ranging from 17 ppb to 2,157 ppb.

TCLP Metals: TCLP copper was detected at 0.03 mg/l and 0.09 mg/l in concrete samples AOC2S and AOC2N, respectively. TCLP lead at 0.032 mg/l and zinc at 0.16 mg/l were also detected in sample AOC2N.

SPLP Metals: SPLP copper was detected at 0.02 mg/l in concrete sample AOC2N. No other SPLP metals were detected.

Concrete chips are not comparable to RSR standards, and thus, were used only as an indicator of compounds released that could potentially affect the soil below.

Results of Soil Analysis

VOCs: No VOCs were detected in soil collected from this area.

TCLP Metals: TCLP barium (1.0 mg/l), copper (0.52 mg/l), nickel (0.17 mg/l), and zinc (0.65 mg/l) were detected in soil sample AOC2Soil.

SPLP Metals: SPLP copper was detected at 0.01 mg/l in soil sample AOC2Soil. No other SPLP metals were detected.

TCLP is an aggressive analytical method that simulates leaching capabilities of contaminants in a landfill-type environment. SPLP method more closely simulates the leaching capabilities of rainfall. The RSR allows for comparison of either method to the PMC. The concentrations of all leachable metals detected in soil were below the GB PMC. Based on this interior investigation, no evidence of a release to soils beneath the building was identified.

Reports: *Phase II Subsurface Investigation*, dated July 14, 1999, prepared by HRP Associates, Inc.

In 1999, HRP conducted additional soil investigations throughout the former Howe Furniture property, which included the installation of boring TB-3 in the former ignitables storage area to confirm previous testing. A soil sample was collected from 0-2 ft below grade and was submitted for analysis of VOCs by EPA Method 8021B, TPH by EPA Method 418.1, and 8 RCRA metals by mass analysis and SPLP method. Sample results indicated that low levels of total metals were detected, including arsenic, barium, chromium, and lead. No SPLP metals, TPH or VOCs were detected. All metals detections were well below applicable RSR standards.

IV. Phase III Investigation

Reports: *RFI VCA Work Plan and Quality Assurance Program Plan (QAPP)*, dated February 13, 2002, prepared by HRP Associates, Inc.

Environmental Condition Assessment Form, dated August 2003, prepared by HRP Associates, Inc.

In 2002, HRP conducted additional soil investigations in RA-2 to address data gaps identified in the RFI VCA Work Plan, including evaluation of potential petroleum contamination exterior to the building, adjacent to RA-2.

In November 2002, HRP installed 16 additional soil borings, including four interior borings (TB-55 through TB-58) and 12 exterior (TB-37 through TB-48). Interior borings penetrated to depths of up to 7.5 feet below the concrete slab. Exterior borings penetrated up to 6.5 feet below grade.

Soil samples from each interior boring from various depths (0-2 ft to 6-7.5 ft) were submitted for laboratory analysis. Samples TB-56 (2-4 ft), TB-57 (6-7.5 ft), and TB-58 (0-2 ft) were analyzed for ETPH by the Connecticut ETPH Method. Sample TB-56 (2-4 ft) was also analyzed for metals by mass analysis. Sample TB-55 (1-2 ft) was analyzed for VOCs. All laboratory data was independently Tier II validated to ensure data usability.

Results of Interior Soil Analysis

ETPH: No ETPH was detected in soil collected from interior areas.

Metals: Antimony (1.7 mg/kg), arsenic (8.4 mg/kg), barium (183 mg/kg), chromium (77.6 mg/kg), lead (12.1 mg/kg), manganese (752 mg/kg), nickel (46 mg/kg), and zinc (76.3 mg/kg) were detected in interior soil.

VOCs: Trace concentrations up to 3 ppb of 2-butanone, ethylbenzene, xylenes, and toluene were detected in TB-55 (1-2 ft). Acetone was also detected at 24 ppb.

Soil samples from each exterior boring from various depths (0-2 ft to 4-6.5 ft) were submitted for laboratory analysis for ETPH by the Connecticut ETPH Method.

Results of Exterior Soil Analysis

ETPH: ETPH was detected at concentrations ranging from 3 to 170 in 10 of the 12 soil samples collected from exterior areas.

The results of all soil sampling conducted in RA-2 during the 2002 sampling event were below all applicable RSR criteria.

Report: *Focused Subsurface Soil Investigation,* dated February 2007, prepared by HRP Associates, Inc.

HRP installed four test borings (TB-12 – TB-15) within 10 feet of the historical location of the "venthood" sample, where TPH was detected at elevated levels in 1995. Four soil samples and one duplicate sample were collected from shallow depths and subsequently analyzed for ETPH. No ETPH was detected in any of the borings.

V. Groundwater Investigation

Monitoring well MW-13 was installed outside the building adjacent to RA-2 to evaluate groundwater quality in 1999. Well MW-13 has been sampled 11 times during events

dating 1999 to 2009. Metals, c12DCE and ETPH have been detected in groundwater in this well over time. However, the noted contaminants are likely attributable to site-wide degradation of groundwater quality and not a specific release from RA-2. A discussion of groundwater monitoring can be found in Section 4.0 of the *Capstone Phase III Investigation Report.*

VI. Current Status

Multiple rounds of soil investigation (totaling over 20 samples) have confirmed that no significant releases have occurred inside the former Howe Furniture building in the ignitable material storage area. A limited release of petroleum was identified in a single soil sample in 1995 exterior to a vent pipe. The degree and extent of the release of petroleum to shallow exterior soils in RA-2 has been characterized. It is likely that the 1995 soil sample represents a worst-case sample that may have been caused by asphalt particles in the shallow soil samples collected immediately below asphalt pavement. It is not certain that the detection of petroleum in exterior soils is related to a release from the ignitables storage area, as no similar detections of petroleum have been identified in concrete chip or soil samples from inside the building.

All soil exceeding the RSR standards has been removed from the site during previous remedial actions, except for the single historical detection of TPH above the RDEC and GB PMC in 1995.

It is anticipated that an Environmental Land Use Restriction (ELUR) will restrict the site to industrial/commercial use, and will provide for a "no dig" restriction under the site building. Because the site will be limited to industrial and commercial uses only, any previous ETPH detections that exceeded the Res DEC will no longer be of concern for the subject site. Compliance with the GB PMC for ETPH was achieved by calculation of the 95% Upper Confidence Interval in September 2012.

PRA-2
Concrete Chip Results

AOC		PRA-2	PRA-2
SAMP_ID		AOC2S	AOC2N
LAB_ID		chip	chip
SAMP_DATE		10-18-95	10-18-95
ANALYTE	Units	Result	Result
SPLP Metals			
Copper	UG/L	ND<10	20
TCLP Metals			
TCLP Copper	UG/L	30	90
TCLP Lead	UG/L		32
TCLP Zinc	UG/L		160
VOCs			
Ethylbenzene	UG/KG	17	
m,p-Xylene	UG/KG	35	
MIBK	UG/KG	977	
o-Xylene	UG/KG	81	
Toluene	UG/KG	2157	
Xylene (Total)	UG/KG	116	

Qualifiers/Abbreviations
BLANK CELLS = analysis not run
Blank Results Cells = Not analyzed
Blank Qualifier Cells = Validated Data within Quantitation Limits
J = Estimated, below Quantitation Limit
UJ = Estimated detection/Quantitation Limit Issues
NV = not validated
ug/kg = microgram per kilogram
mg/kg = milligram per kilogram
mg/L = milligram per liter

PRA-2
Soil Sampling Results

AOC		RDEC	I/C DEC	GB PMC	PRA-2	PRA-2	PRA-2	PRA-2	PRA-2	PRA-2	PRA-2	PRA-2	PRA-2	PRA-2	PRA-2
SAMP_ID					TB-12	TB-12MS/MSD	TB-13	TB-14	TB-15	TB-37(4-6)	TB-38(2-4)	B-39(0-2)	TB-40(4-6.5)	TB41(4-6.5)	(Dup. of TB-41 (4-6.5))
SAMP_DATE					12/29/2006	12/29/2006	12/29/2006	12/29/2006	12/29/2006	11-06-02	11-06-02	11-06-02	11-06-02	11-07-02	11-07-02
ANALYTE	Units				1.83' - 3'	1.91' - 3.16'	1.5' - 2.33'	1.83' - 2.83'	1.91' - 2.91'						
Extractable Total Petroleum Hydrocarbons	MG/KG	500	2500	2500	<11	<11	<13	<13	<12	3	7	15	100	5	ND<3
TPH - 418.1	MG/KG	500	2500	2500											
pH		NE	NE	NE											
Metals by Mass Analysis															
Antimony	MG/KG	27	8200	NE											
Arsenic	MG/KG	10	10	NE											
Barium	MG/KG	4700	140000	NE											
Chromium	MG/KG	100	100	NE											
Lead	MG/KG	400	1000	NE											
Manganese	MG/KG	NE	NE	NE											
Nickel	MG/KG	1400	7500	NE											
Zinc	MG/KG	20000	610000	NE											
SPLP Metals															
Copper	mg/l	NE	NE	13											
TCLP Metals															
Barium	mg/l	NE	NE	10											
Copper	mg/l	NE	NE	13											
Nickel	mg/l	NE	NE	1											
Zinc	mg/l	NE	NE	50											
VOCs															
2-Butanone	UG/KG	500000	1000000	80000											
Acetone	UG/KG	500000	1000000	140000											
Ethylbenzene	UG/KG	500000	1000000	10100											
m,p-Xylene	UG/KG	500000	1000000	19500											
o-Xylene	UG/KG	500000	1000000	19500											
Toluene	UG/KG	500000	1000000	67000											
Xylene(Total)	UG/KG	500000	1000000	19500											

Qualifiers/Abbreviations
Bold Values Exceed Standards
Blank = not analyzed
Res DEC = CT DEP Remediation Standard Regulation numerical Residential Direct Exposure Criteria
I/C DEC = CT DEP Remediation Standard Regulation Industrial/Commercial numerical Direct Exposure Criteria
GB PMC = CT DEP Remediation Standard Regulation numerical Pollutant Mobility Criteria
ug/kg = microgram per kilogram
mg/kg = milligram per kilogram
mg/L = milligram per liter

PRA-2
Soil Sampling Results

AOC		RDEC	I/C DEC	GB PMC	PRA-2	PRA-2	PRA-2	PRA-2	PRA-2	PRA-2	PRA-2	PRA-2	PRA-2	PRA-2	PRA-2	PRA-2
SAMP_ID					(Dup. of TB-41 (4-6.5))	TB42(4-6)	TB-43(0-2)	TB-44(0-2)	TB-45(2-4)	TB-46(0-2)	TB-47(2-4)	TB-48(0-2)	TB-55(1-2)	TB-56(2-4)	TB-57(6-7.5)	TB-58(0-2)
SAMP_DATE					11-07-02	11-07-02	11-07-02	11-07-02	11-07-02	11-07-02	11-07-02	11-07-02	12-18-02	12-18-02	12-18-02	12-18-02
ANALYTE	Units															
Extractable Total Petroleum Hydrocarbons	MG/KG	500	2500	2500	4	8	20	170	ND<2	ND<3	3	15		ND<13	ND<13	ND<12
TPH - 418.1	MG/KG	500	2500	2500												
pH		NE	NE	NE												
Metals by Mass Analysis																
Antimony	MG/KG	27	8200	NE										1.7		
Arsenic	MG/KG	10	10	NE										8.4		
Barium	MG/KG	4700	140000	NE										183		
Chromium	MG/KG	100	100	NE										77.6		
Lead	MG/KG	400	1000	NE										12.1		
Manganese	MG/KG	NE	NE	NE										752		
Nickel	MG/KG	1400	7500	NE										46		
Zinc	MG/KG	20000	610000	NE										76.3		
SPLP Metals																
Copper	mg/l	NE	NE	13												
TCLP Metals																
Barium	mg/l	NE	NE	10												
Copper	mg/l	NE	NE	13												
Nickel	mg/l	NE	NE	1												
Zinc	mg/l	NE	NE	50												
VOCs																
2-Butanone	UG/KG	500000	1000000	80000									2			
Acetone	UG/KG	500000	1000000	140000									24			
Ethylbenzene	UG/KG	500000	1000000	10100									0.6			
m,p-Xylene	UG/KG	500000	1000000	19500									2			
o-Xylene	UG/KG	500000	1000000	19500									1			
Toluene	UG/KG	500000	1000000	67000									2			
Xylene(Total)	UG/KG	500000	1000000	19500									3			

Qualifiers/Abbreviations

Bold Values Exceed Standards

Blank = not analyzed

Res DEC = CT DEP Remediation Standard Regulation numerical Residential Direct

I/C DEC = CT DEP Remediation Standard Regulation Industrial/Commercial numeric

GB PMC = CT DEP Remediation Standard Regulation numerical Pollutant Mobility Cr

ug/kg = microgram per kilogram

mg/kg = milligram per kilogram

mg/L = milligram per liter

PRA-2
Soil Sampling Results

AOC		RDEC	I/C DEC	GB PMC	PRA-2	PRA-2	PRA-2
SAMP_ID					Venthood	AOC2-Soil	TB-3
SAMP_DATE					July 1995	10/18/95	1999
ANALYTE	Units				(0.5-1')		
Extractable Total Petroleum Hydrocarbons	MG/KG	500	2500	2500			
TPH - 418.1	MG/KG	500	2500	2500	**4000**		ND
pH		NE	NE	NE	7.4		
Metals by Mass Analysis							
Antimony	MG/KG	27	8200	NE			
Arsenic	MG/KG	10	10	NE	ND		1.2
Barium	MG/KG	4700	140000	NE	ND		28
Chromium	MG/KG	100	100	NE	ND		55.5
Lead	MG/KG	400	1000	NE	ND		7.9
Manganese	MG/KG	NE	NE	NE			
Nickel	MG/KG	1400	7500	NE			
Zinc	MG/KG	20000	610000	NE	ND		
SPLP Metals							
Copper	mg/l	NE	NE	13		0.01	
TCLP Metals							
Barium	mg/l	NE	NE	10		1.0	
Copper	mg/l	NE	NE	13		0.52	
Nickel	mg/l	NE	NE	1		0.17	
Zinc	mg/l	NE	NE	50		0.65	
VOCs							
2-Butanone	UG/KG	500000	1000000	80000	BDL	BDL	BDL
Acetone	UG/KG	500000	1000000	140000	BDL	BDL	BDL
Ethylbenzene	UG/KG	500000	1000000	10100	BDL	BDL	BDL
m,p-Xylene	UG/KG	500000	1000000	19500	BDL	BDL	BDL
o-Xylene	UG/KG	500000	1000000	19500	BDL	BDL	BDL
Toluene	UG/KG	500000	1000000	67000	BDL	BDL	BDL
Xylene(Total)	UG/KG	500000	1000000	19500	BDL	BDL	BDL
Qualifiers/Abbreviations							
Bold Values Exceed Standards							
Blank = not analyzed							
Res DEC = CT DEP Remediation Standard Regulation numerical Residential Direct							
I/C DEC = CT DEP Remediation Standard Regulation Industrial/Commercial numeric							
GB PMC = CT DEP Remediation Standard Regulation numerical Pollutant Mobility C							
ug/kg = microgram per kilogram							
mg/kg = milligram per kilogram							
mg/L = milligram per liter							

RA-3: Former Hazardous Materials Storage Area

Technical Memorandum

Former Howe Furniture
151 Woodward Ave, Norwalk, CT

I. RA Information

The former hazardous materials storage area occupied a 5 ft by 9 ft bermed area inside the former Howe Furniture building. Storage of 1,1,1-trichloroethane, waste paint, silver solder cooling water waste, and acetone reportedly occurred here during Howe Furniture operations at the site. The dates of use of the storage area are not certain, but they ceased when Howe Furniture operations ceased in 1995. Site inspections of the storage area have noted that staining was observed on the walls, presumably from splashing, but that the concrete floor appeared to be in good condition, without cracks, at the time of facility closure. Re-inspection of the area was conducted in 2002 during implementation of EPA-requested investigations, and resulted in an expansion of the former storage area to 9 ft by 10 ft. At that time, a crack was observed in the concrete floor.

The location of RA-3 is depicted on Figure 2 of the *Capstone Phase III Investigation Report*; the locations of all sampling points are depicted on Figure 3. A synopsis of all investigations is presented in the Conceptual Site Model Table (Table 1) of the *Capstone Phase III Investigation Report.* The results of concrete chip and soil sampling are included on tables attached to this Technical Memo. Investigations are discussed in chronological order in Sections III through V below.

II. Release Information

Potential release mechanisms include spills to the concrete floor, having the potential to affect soils immediately beneath the slab. Contaminants of Concern for RA-3 include ETPH, VOCs, metals, SVOCs, pesticides, and PCBs.

III. Phase II Investigation

Reports: *Phase II Subsurface Investigation,* dated July 14, 1999, prepared by HRP Associates, Inc.

In 1999, HRP conducted additional soil investigations throughout the former Howe Furniture property, which included the installation of monitoring well MW-6 in the former hazardous waste storage area to evaluate groundwater quality. A soil sample was collected from 2-4 ft below grade during installation of well MW-6 and was submitted for analysis of VOCs by EPA Method 8021B, TPH by EPA Method 418.1, and 8 RCRA metals by mass analysis. Sample results indicated that low levels of total metals were detected, including arsenic, barium, chromium, lead, and mercury. No TPH or VOCs were detected. All metals detections were well below RDEC and I/C DEC.

IV. Phase III Investigation

Reports: *Closure Plan Part I – Facility Information and Site Characterization Work Plan,* dated November 10, 1994, prepared by HRP Associates, Inc.

Facility Closure for the Howe Furniture Corporation, dated March 3, 1995, prepared by HRP Associates, Inc.

RFI VCA Work Plan and Quality Assurance Program Plan (QAPP), dated February 13, 2002, prepared by HRP Associates, Inc.

Environmental Condition Assessment Form, dated August 2003, prepared by HRP Associates, Inc.

In 2002, HRP conducted additional soil investigations in RA-3 to address data gaps identified in the RFI VCA Work Plan, including the potential presence of leachable metals in soils underneath the building slab and to perform RCRA closure of the hazardous waste storage area. HRP performed a RCRA hazardous waste storage area closure of RA-3 to assess the potential for contamination of the concrete floor and underlying soils after the cessation of Howe Furniture manufacturing operations. The RCRA closure was performed as a follow up to the 1994 Closure Plan, which had not been implemented.

In September 2002, HRP collected concrete chip samples from the floor within the former hazardous waste storage area. The samples were collected from three randomly chosen grid squares within the storage area (CP-1, CP-2, CP-3) as well as a fourth location, at which a crack in the concrete floor was observed (CP-4). A fifth sample (CP-5) was collected as a composite of all concrete samples. In accordance with RCRA closure procedures, sample CP-3, with the highest PID reading, was analyzed for VOCs. Composite sample CP-5 was analyzed for Appendix IX constituents to determine the site-specific contaminants of concern. Various metals, phthalates, aldrin, beta-BHC, and 2-picoline, 2-butanone, 2-hexanone, 4-methyl-2-pentane, and acetone were detected.

In December 2002, HRP returned to collect additional concrete chips from the storage area to discretely assess the previously-detected contaminants. Three randomly selected grid squares were chosen and chip samples CP-6, CP-7, and CP-8 were collected and analyzed for VOCs, SVOCs, pesticides, formaldehyde, total and SPLP metals. Various total and SPLP metals, aldrin, halogenated and aromatic VOCs, and phthalates were detected at low levels.

In December 2002, HRP installed 6 interior soil borings, (TB-49 through TB-54). Interior borings penetrated to depths of up to 7 feet below the concrete slab. Soil samples from each interior boring from various depths (0-2 ft to 6-7 ft) were submitted for laboratory analysis for total and SPLP metals, SVOCs, pesticides, PCBs, and VOCs.

Sample TB-54 (0-2 ft) was analyzed for total organic carbon. All laboratory data was independently Tier II validated to ensure data usability.

Results of Interior Soil Analysis

Metals: Arsenic, barium, cadmium, chromium, copper, lead, nickel, and zinc were detected by mass analysis in interior soil at concentrations below the DEC, except for a single detection of arsenic. Arsenic was detected at 20 mg/kg in TB-52 (2-4 ft), which exceeds the RDEC and I/C DEC of 10 mg/kg. SPLP chromium and nickel were detected below the GB PMC.

VOCs: Trace concentrations up to 2 ppb of 2-butanone and up to 22 ppb of acetone were detected in three soil samples. 1,1,1-Trichloroethane was detected in sample TB-53 (1-2 ft) at 1 ppb.

TOC: Total organic carbon was detected at 2,210 mg/kg in TB-54 (0-2 ft).

Other: No SVOCs, PCBs, or pesticides were detected in soil samples from RA-3.

V. Groundwater Investigation

Monitoring well MW-6 was installed inside the building in RA-3 to evaluate groundwater quality in 1999. Well MW-6 has been sampled 11 times during events dating 1999 to 2009. Metals, TCA and related breakdown products, and ETPH have been detected in groundwater in this well over time. However, the noted contaminants are likely attributable to site-wide degradation of groundwater quality and not a specific release from RA-3. A discussion of groundwater monitoring can be found in Section 4.0 of the *Capstone Phase III Investigation Report.*

VI. Current Status

Multiple rounds of concrete chip (13 samples) and soil (7 samples) investigations have confirmed that no significant releases have occurred to the soil inside the former Howe Furniture building in the hazardous waste storage area. Trace concentrations of VOCs were detected in soil beneath the concrete slab, but are at such low levels that they are not indicative of a release, and may in fact be the result of volatilization off of contaminated groundwater. All soils are below RSR criteria, except for a single exceedance of the RDEC and I/C DEC for arsenic.

Although RCRA closure activities have been performed, no closure report has been prepared to date. Hazardous waste closure is required to be verified by a licensed Professional Engineer. It is uncertain if full RCRA closure can be achieved because of the single exceedance of RSR criteria for arsenic.

It is anticipated that an Environmental Land Use Restriction (ELUR) will restrict the site to industrial/commercial use, and will provide for a "no dig" restriction under the site

building. The building will render soils beneath the slab inaccessible and environmentally isolated, which will exempt the single arsenic detection from compliance with the numerical criteria.

RA-3
Concrete Chip Sampling Results

AOC		RA-3		RA-3		RA-3		RA-3		RA-3		RA-3		RA-3		RA-3		RA-3	
SAMP_ID		AOC3-CT-CP-3		AOC3-CT-CP-5		AOC3-CT-CP-5		AOC3-CT-CP-5		AOC3CTCP6		AOC3CTCP6		AOC3CTCP7		AOC3CTCP7		AOC3CTCP8		AOC3CTCP8	
LAB_ID		202024-001		202024-002		502125		G2I250255-001		A1905-01		(Dilution or Re-extract)		A1905-02		(Dilution or Re-extract)		A1905-03C		(Dilution or Re-extract)	
SAMP_DATE		9/17/2002		9/17/2002		9/17/2002		9/17/2002		12-17-02		12-17-02		12-17-02		12-17-02		12-17-02		12-17-02	
ANALYTE	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
formaldehyde	UG/KG									110				ND<100	U			ND<100	U		
Metals by Mass Analysis																					
Arsenic	MG/KG			1.2	J					1.3	J			1.7	J			1.6	J		
Barium	MG/KG			39.2						34.9	J			32.8	J			33.2	J		
Chromium	MG/KG			9.0						6.8				8.1				9.4			
Cobalt	MG/KG			3.0						1.8				1.9				2.4			
Copper	MG/KG			19.5						14.3				13.9				16.8			
Lead	MG/KG			5.1	J					2.7	J			2.7	J			4.3	J		
Mercury	MG/KG									0.11				ND<0.014	U			ND< 0.015	U		
Nickel	MG/KG			7.3						5.2	J			5.7	J			7.5	J		
Selenium	MG/KG									ND< 0.38	UJ			ND<0.38	UJ			0.75	J		
Tin	mg/kg			5.3	J																
Vanadium	MG/KG			9.0						6				7.2				7.9			
Zinc	MG/KG			49.3						28.2	J			27.6	J			39.5	J		
Sulfide	MG/KG			4.08	UJ																
SPLP Metals																					
SPLP Chromium	UG/L									8.4				4.6				6.1			
SPLP Nickel	UG/L									5				1.1				ND<1	U		
SPLP Vanadium	UG/L									10.4				ND< 3	U			ND< 3	U		
Pesticides																					
Aldrin	UG/KG			16	J					1.7	J			ND<1.7	U			ND<1.7	U		
Beta-BHC	UG/KG			5.6																	
2-picoline	UG/KG			68	UJ																
VOCs																					
1,1,1-Trichloroethane	UG/KG											ND<1	U			1	J			390	
1,1-Dichloroethene	UG/KG											ND<1	U			ND<2	U			23	
1,2,3-Trichlorobenzene	UG/KG									2	J					1	J	ND<3	UR		
1,2,4-Trichlorobenzene	UG/KG									1	J					1	J	ND<3	UR		
1,2,4-Trimethylbenzene	UG/KG											28				37				18	
1,3,5-Trimethylbenzene	UG/KG									6						10		ND<3	UR		
2-Butanone	UG/KG	17	J							6						26		30	J		
2-Hexanone	UG/KG	10	J							2	J					13		29	J		
4-Methyl-2-pentanone	UG/KG	10	J							6						19		11	J		
Acetone	UG/KG	72	J							32	J					88	J			150	J
Benzene	UG/KG									0.6	J					ND<2	U	1	J		
Ethylbenzene	UG/KG									0.8	J					0.6	J	ND<3	UR		
m,p-Xylene	UG/KG									2	J					3		1	J		
Naphthalene	UG/KG									4						4				40	
n-Butylbenzene	UG/KG									2	J					ND<2	U	ND<3	UR		
o-Xylene	UG/KG									1	J					2	J	ND<3	UR		
Toluene	UG/KG									1	J					2	J			25	
Xylene (Total)	UG/KG									3						5		1	J		
SVOCs																					
bis(2-Ethylhexyl)phthalate	UG/KG									1100	NV	1500 J	J	2900	NV			360	NV		
Butyl benzyl phthalate	UG/KG			380	J																
Di-n-butyl phthalate	UG/KG			150	J																
Di-n-octylphthalate	UG/KG									ND<330	NV	ND<320	UJ	79	J, NV			ND<330	NV	ND<320	UJ

Qualifiers/Abbreviations
BLANK CELLS = analysis not run
Blank Results Cells = Not analyzed
Blank Qualifier Cells = Validated Data within Quantitation Limits
J = Estimated, below Quantitation Limit
UJ = Estimated detection/Quantitation Limit Issues
NV = not validated
ug/kg = microgram per kilogram
mg/kg = milligram per kilogram
mg/L = milligram per liter

RA-3
Soil Sampling Results

AOC		RDEC	I/C DEC	GB PMC	RA-3	RA-3	RA-3	RA-3	RA-3	RA-3	RA-3
SAMP_ID					TB-49(0-2)	TB-49(4-5)	TB-51(6-7)	TB-52(2-4)	TB-53(1-2)	TB-54(0-2)	MW-6
SAMP_DATE					12-16-02	12-16-02	12-16-02	12-16-02	12-16-02	12-16-02	1995
ANALYTE	Units										(2-4')
Metals by Mass Analysis											
Antimony	MG/KG	27	8200	NE						0.93	
Arsenic	MG/KG	10	10	NE			1.4	20		9	2.9
Barium	MG/KG	4700	140000	NE			62.8	85.1		158	92
Cadmium	MG/KG	34	1000	NE			0.18	0.32		.54	ND
Chromium	MG/KG	100	100	NE			22.7	36.6		42	24.5
Copper	MG/KG	2500	76000	NE			11.6	16.9		20	
Lead	MG/KG	400	1000	NE			3.7	5.3		9.4	4.9
Manganese	MG/KG	NE	NE	NE						636	
Mercury	MG/KG	20	610	NE			ND<0.015	ND< 0.016		ND< 0.016	0.03
Nickel	MG/KG	1400	7500	NE			9.8	18.3		23.4	
Zinc	MG/KG	20000	610000	NE			31.2	37.5		46.7	
SPLP Metals											
Chromium	UG/L	NE	NE	500			0.87	0.81			ND
Nickel	UG/L	NE	NE	1000			0.9	ND<0.8			
VOCs											
1,1,1-Trichloroethane	UG/KG	500000	1000000	40000	ND<2				1	ND<2	BDL
2-Butanone	UG/KG	500000	1000000	80000	2				2	2	BDL
Acetone	UG/KG	500000	1000000	140000	19				22	18	BDL
TOC	MG/KG	NE	NE	NE						2210	
Qualifiers/Abbreviations											
Bold Values Exceed Standards											
Blank = not analyzed											
Res DEC = CT DEP Remediation Standard Regulation numerical Residential Direct Exposure Criteria											
I/C DEC = CT DEP Remediation Standard Regulation Industrial/Commercial numerical Direct Exposure Criteria											
GB PMC = CT DEP Remediation Standard Regulation numerical Pollutant Mobility Criteria											
ug/kg = microgram per kilogram											
mg/kg = milligram per kilogram											
mg/L = milligram per liter											

PRA-4: Former Compressed Gas Storage Area

Technical Memorandum

Former Howe Furniture
151 Woodward Ave, Norwalk, CT

I. RA Information

Cylinders of compressed argon, oxygen, and liquid petroleum/propane were formerly stored in the northwest portion of the Howe Furniture building. The dates of use of the storage area are not certain, but they ceased when Howe Furniture operations ceased in 1995.

II. Release Information

Potential release mechanisms include a release of compressed gas to the air from container failure or leakage. These types of releases have no potential to affect soil or groundwater quality.

III. Current Status

No soil or groundwater investigations were required to assess this potential release area, as no migration pathway to these media was identified. Compressed gas storage ceased with all other Howe Furniture operations in 1995. No additional evaluation of this PRA is required.

RA-5: Former Descaling Rinse Tanks
RA-5A: Former Piping Trench

Technical Memorandum

Former Howe Furniture
151 Woodward Ave, Norwalk, CT

I. RA Information

RA-5: Howe Furniture formerly utilized descaling tanks for the production of steel furniture parts. The tanks, consisting of four 500-gallon open vats of mild acid rinse solution, were in use from 1982 through 1995, when Howe Furniture operations ceased at the site. No secondary containment was present for the descaling tanks, and site inspections in 1992 noted significant staining on the floor in that area. Rinsewater from the tanks were reportedly discharged to the sanitary sewer and were reported to have contained trace concentrations of 1,1,1-trichloroethane.

RA-5A: A sub-floor concrete lined trench was present that linked the former descaling area to an adjacent silver solder cooling area (RA-6). The trench was sand-filled and housed copper and PVC piping.

The locations of RA-5 and RA-5A are depicted on Figure 2 of the *Capstone Phase III Investigation Report*; the locations of all sampling points are depicted on Figure 3. A synopsis of all investigations is presented in the Conceptual Site Model Table (Table 1) of the *Capstone Phase III Investigation Report.* The results of concrete chip and soil sampling are included on tables attached to this Technical Memo. Investigations are discussed in chronological order in Sections III through V below.

II. Release Information

Potential release mechanisms include spills to the concrete floor, having the potential to affect soils immediately beneath the slab. Releases from pipe failures or spills to the concrete trench could affect shallow soils within and surrounding the trench. Contaminants of Concern for RA-5 and RA-5A include metals, ETPH, and VOCs.

III. Phase II Investigation

Report: *Summary of Investigations/Removal Activities Performed Inside the Howe Furniture Corporation Manufacturing Facility*, dated June 1996, prepared by HRP Associates, Inc.

HRP was directed to perform an evaluation of interior areas of concern to assess the potential for contamination of the concrete floor and underlying soils after the cessation of Howe Furniture manufacturing operations. HRP collected three concrete chip

samples, AOC5M, AOC5N, and AOC5S, from the floor beneath the descaling tanks. A soil sample, AOC5Soil was also collected from the soil immediately beneath the slab where a crack was observed in the floor.

The concrete chip samples were analyzed for VOCs, TCLP 8 RCRA metals, plus copper, nickel and zinc, and SPLP cadmium, copper, and zinc. The soil sample was analyzed for VOCs, TCLP 8 RCRA metals, plus copper, nickel and zinc, and SPLP cadmium, copper, lead, nickel, silver, and zinc.

Results of Concrete Chip Analysis

VOCs: No VOCs were detected in the concrete chip samples.

TCLP Metals: TCLP cadmium (0.014 to 0.017 mg/l), copper (0.09 to 0.38 mg/l), and zinc (0.25 to 0.40 mg/l) were detected in the three concrete samples.

SPLP Metals: SPLP copper was detected at 0.01 mg/l in each of the concrete samples. No other SPLP metals were detected.

Concrete chips are not comparable to RSR standards, and thus, were used only as an indicator of compounds released that could potentially affect the soil below.

Results of Soil Analysis

VOCs: No VOCs were detected in soil collected from this area.

TCLP Metals: TCLP cadmium (0.206 mg/l), copper (0.86 mg/l), lead (0.013 mg/l), nickel (0.24 mg/l), silver (0.03 mg/l) and zinc (3.04 mg/l) were detected in soil sample AOC5Soil.

SPLP Metals: SPLP cadmium (0.026 mg/l), copper (0.12 mg/l), nickel (0.06 mg/l), and zinc (0.43 mg/l) were detected in soil sample AOC5Soil.

TCLP is an aggressive analytical method that simulates leaching capabilities of contaminants in a landfill-type environment. SPLP method more closely simulates the leaching capabilities of rainfall. The RSR allows for comparison of either method to the PMC. The concentrations of all leachable metals detected in soil were below the GB PMC.

Based on this interior investigation, evidence of a release of metals to soils beneath the building was identified. Please note that at the time of the 1995 investigation, the site was classified as a GA groundwater area, and thus, soil results were compared to the more rigorous GA PMC. The site has since been re-classified as GB, and the GB PMC now applies. The concentration of cadmium in soil sample AOC5Soil exceeded the GA PMC of 0.005 mg/l.

HRP returned to the site in December 1995 and removed soil from within a piping trench where cadmium was detected in October 1995. A small volume (less than 20 gallons) of soil, concrete, copper and PVC piping were removed and additional samples of soil within the trench (samples S-1 and S-2) were collected. Samples S-1 and S-2 were analyzed for SPLP metals, all of which were below GB PMC numerical criteria, but exceeded the GA PMC for cadmium.

Additional soil was removed from the bottom of the excavation, extending the depth by approximately 1 foot in early February 1996, and two additional soil samples (AOC5E and AOC5W) were collected to confirm that contamination had been removed. Soil samples (AOC5.5E and AOC5.5W) were also collected from the pipe trench (AOC-5A) that connects AOC5 and AOC6 (former silver solder cooling tanks). The soil samples were analyzed for SPLP metals. No detections were reported for samples AOC5.5E and AOC5.5W. Cadmium (0.010 to 0.009 mg/l) and zinc (0.11 and 0.30 mg/l) were detected in samples AOC5W and AOC5E, respectively. The concentrations of cadmium in these samples exceeded the GA PMC, but are below the GB PMC.

Soil within AOC5 was excavated an additional foot in depth and then a vertical profile of soil was sampled to evaluate the remaining extent of cadmium contamination. Soils were sampled at depth of 0.5 ft, 2 ft, and 3 ft below a layer of concrete found to exist beneath the floor slab. Samples were labeled Level 1N, 1S, 1E, 1W at 0.5 ft below grade, Level 2N, 2S, 2E, 2W at 2 ft below grade, and Level 3N, 3S, 3E, 3W, 3BE, and 3BW at the 3 ft depth interval. Samples were analyzed for SPLP metals. Nickel (0.07 mg/l), zinc (0.15 to 1.13 mg/l), and cadmium (0.07 to 0.088 mg/l) were detected. All metals detections were below the GB PMC, except for a single detection of cadmium in sample Level 2W.

At the conclusion of the 1996 investigation, it was recommended that no further investigation or remedial action be conducted, as no threat to the building occupants had been identified.

Reports: *Phase II Subsurface Investigation,* dated July 14, 1999, prepared by HRP Associates, Inc.

In 1999, HRP conducted additional soil investigations throughout the former Howe Furniture property, which included the installation of wells MW-7 and MW-9. Based on site plans from 1999, MW-7 is located in RA-5. However, subsequent site plans depict MW-9 in the area of RA-5. It is uncertain if the base map or well survey may have been re-drawn or if this is a typographical error. As such, data sets from both wells have been considered to be associated with RA-5. Soil samples were collected from MW-7 at 0-2 ft below grade and MW-9 at 0-2 ft and 4-6 ft below grade and submitted for analysis VOCs by EPA Method 8021B, TPH by EPA Method 418.1, and 8 RCRA metals by mass analysis and SPLP method. Sample results indicated that low levels of total metals were detected, including arsenic, barium, chromium, lead, and mercury. No SPLP metals, TPH or VOCs were detected. All metals detections were well below applicable RSR standards, except for arsenic in MW-9 (0-2 ft), which contained arsenic at 10.1 mg/kg, which slightly exceeds the RDEC and I/CDEC of 10 mg/kg.

IV. Phase III Investigation

RFI VCA Work Plan and Quality Assurance Program Plan (QAPP), dated February 13, 2002, prepared by HRP Associates, Inc.

Environmental Condition Assessment Form, dated August 2003, prepared by HRP Associates, Inc.

In 2002, HRP conducted additional soil investigations in RA-5 and RA-5A to address data gaps identified in the RFI VCA Work Plan, including the presence of metals in soils underneath the building slab. In December 2002, HRP installed 6 interior soil borings, (TB-59 through TB-64) in the area of the former descaling tanks and 3 borings (TB-68, TB-69, and TB-70) in the pipe trench (RA-5A). Interior borings penetrated to depths of up to 8 feet below the concrete slab. All soils encountered during boring installation in RA-5 and RA-5A were screened using x-ray fluorescence (XRF) to evaluate the potential for metals contamination. Samples with elevated metals during XRF screening were selected for laboratory analysis. Soil samples from each interior boring from various depths (0-2 ft to 7-8 ft) were submitted for laboratory analysis for VOCs, and total and SPLP metals. All laboratory data was independently Tier II validated to ensure data usability.

Results of RA-5 Soil Analysis

Metals: Antimony, arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, and zinc were detected by mass analysis in interior soil at concentrations below the DEC, except for a single detection of chromium. The concentration of total chromium in sample TB-64 (2-4 ft) of 124 mg/kg exceeds the RDEC and I/C DEC of 100 mg/kg for hexavalent chromium.

Leachable arsenic, barium, cadmium, chromium, copper, lead, nickel, and vanadium were detected by SPLP method at concentrations below the GB PMC.

VOCs: Trace concentrations of 1 ppb of toluene and 22 ppb of acetone were detected in sample TB-62 (6-7ft). The concentrations of VOCs were below all applicable RSR standards.

TOC: Total organic carbon was detected at 21,900 mg/kg in TB-62 (6-7 ft).

Results of RA-5A Soil Analysis

Metals: Aluminum, arsenic, barium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, sodium, vanadium, and zinc were detected by mass analysis in soil in RA-5A at concentrations below the DEC.

Leachable arsenic, barium, beryllium, cadmium, chromium, copper, lead, nickel, and vanadium were detected by SPLP method at concentrations below the GB PMC.

VOCs: Trace concentrations of 2-butanone (35 ppb), toluene (1 to 7 ppb) and acetone (9 to 150 ppb) were detected in samples from RA-5A. The concentrations of VOCs were below all applicable RSR standards.

TOC: Total organic carbon was detected at 1,060 mg/kg in TB-68 (0-1.5 ft).

V. Groundwater Investigation

Monitoring wells MW-7 and MW-9 were installed inside the building in the vicinity of RA-5 and RA-5a to evaluate groundwater quality in 1999. As noted in Section III above, these wells are depicted in slightly different locations on historical site plans, and as a conservative measure, have both been considered in the evaluation of RA-5/RA-5a. Wells MW-7 and MW-9 have been sampled 11 times during events dating 1999 to 2009. Metals, breakdown products of TCA, 1-4-dioxane, MTBE, and ETPH have been detected in groundwater in these wells over time. The noted contaminants are not specifically contaminants of concern for these release areas, and thus are likely attributable to site-wide degradation of groundwater quality and not a specific release from RA-5/RA-5a. A discussion of groundwater monitoring can be found in Section 4.0 of the *Capstone Phase III Investigation Report.*

VI. Current Status

Multiple rounds of soil investigation (for a total of 3 concrete chip samples and 31 soil samples) have confirmed minor releases of metals have occurred to the soil in a limited area of the former descaling tanks (RA-5). Remediation of soil beneath the slab was conducted in 1996 to remove a low level detection of cadmium. Soils remaining in RA-5 and RA-5A are below RSR criteria, except for individual exceedances of the RDEC and I/C DEC for arsenic and chromium, and the GB PMC for cadmium.

It is anticipated that an Environmental Land Use Restriction (ELUR) will restrict the site to industrial/commercial use, and will render soils beneath the building slab inaccessible and environmentally isolated to achieve compliance with the RSR criteria.

RA-5
Concrete Chip Sampling Results

AOC		RA-5	RA-5	RA-5
SAMP_ID		AOC5M	AOC5N	AOC5S
LAB_ID		chip	chip	chip
SAMP_DATE		10-18-95	10-18-95	10-18-95
ANALYTE	Units	Result	Result	Result
SPLP Metals				
SPLP Copper	UG/L	10	10	10
TCLP Metals				
TCLPCadmium	UG/L	14	17	
TCLPCopper	UG/L	90	380	90
TCLPZinc	UG/L	250	400	300

Qualifiers/Abbreviations
BLANK CELLS = analysis not run
Blank Results Cells = Not analyzed
Blank Qualifier Cells = Validated Data within Quantitation Limits
J = Estimated, below Quantitation Limit
UJ = Estimated detection/Quantitation Limit Issues
NV = not validated
ug/kg = microgram per kilogram
mg/kg = milligram per kilogram
mg/L = milligram per liter

RA-5
Soil Sampling Results

AOC		RDEC	I/C DEC	GB PMC	RA-5	RA-5	RA-5	RA-5	RA-5	RA-5	RA-5	RA-5	RA-5	RA-5	RA-5	RA-5
SAMP_ID					TB-59(2-3)	TB-59(3-4)	TB-60(2-4)	TB-60(6-7)	TB-60(7-8)	TB-61(0-2)	(Dup. of TB-61(0-2))	TB-62(2-4)	TB-62(6-7)	TB-64(2-4)	TB-64(6-7)	AOC5 - Soil
SAMP_DATE					12-18-02	12-18-02	12-18-02	12-18-02	12-18-02	12-18-02	12-18-02	12-19-02	12-19-02	12-19-02	12-19-02	Oct. 1995
ANALYTE	Units															
Metals by Mass Analysis																
Antimony	MG/KG	27	8200	NE									1.4			
Arsenic	MG/KG	10	10	NE				8	3.1				5.3	3.4	6.5	
Barium	MG/KG	4700	140000	NE				31.4	25.5				45.4	126	35.4	
Cadmium	MG/KG	34	1000	NE				0.28	0.25				.23	1.3	1.3	
Chromium	MG/KG	100	100	NE				59.8	48.3				21.2	**124**	86.3	
Copper	MG/KG	2500	76000	NE				319	264				9.8	503	391	
Lead	MG/KG	400	1000	NE				147	9.6				14.3	11.8	173	
Manganese	MG/KG	NE	NE	NE									121			
Mercury	MG/KG	20	610	NE				0.053	0.019				ND< 0.1	ND<0.016	0.1	
Nickel	MG/KG	1400	7500	NE				18.2	19.4				13.2	51	24.6	
Silver	MG/KG	340	10000	NE				ND<0.086	ND<0.08				ND< 0.45	ND<0.094	0.24	
Zinc	MG/KG	20000	610000	NE				35.1	38.1				39.1	77.6	107	
SPLP Metals																
Arsenic	UG/L	NE	NE	500				44.4	8.7			ND<3	7.9	ND<3	12.6	ND
Barium	UG/L	NE	NE	10000				133	290			ND<56	193	ND<29.5	221	ND
Cadmium	UG/L	NE	NE	50	ND<0.7	ND<0.7	ND<0.7	ND<0.7	ND<0.7	ND<0.7	ND<0.7	3.7	ND<2	ND<0.7	ND<0.7	26
Chromium	UG/L	NE	NE	500				17.4	4.7			0.8	3.8	1.5	12.7	ND
Copper	UG/L	NE	NE	13000				609	18.8			ND<4		20.9	11.1	120
Lead	UG/L	NE	NE	150				22.9	19.1			ND<4	7.7	ND<4	6.9	ND<10
Nickel	UG/L	NE	NE	1000				5.3	3.6			19.4	1.7	ND<0.8	9.8	60
Vanadium	UG/L	NE	NE	500									45.7			
Zinc	UG/L	NE	NE	50000	ND<21	ND<78.9		ND<78.2	ND<71.4	ND<13.2	ND<8.4	ND<70.8		ND<7	ND<90.6	430
TCLP Copper	UG/L															90
Sodium	UG/L	NE	NE	NE												300
Zinc	UG/L	NE	NE	50000												300
VOCs																
Acetone	UG/KG	500000	1000000	140000									22			BDL
Toluene	UG/KG	500000	1000000	67000									1			BDL
TOC	MG/KG	NE	NE	NE									21900			
Qualifiers/Abbreviations																
Bold Values Exceed Standards																
Blank = not analyzed																
Res DEC = CT DEP Remediation Standard Regulation numerical Residential Direct Exposure Criteria																
I/C DEC = CT DEP Remediation Standard Regulation Industrial/Commercial numerical Direct Exposure Criteria																
GA PMC = CT DEP Remediation Standard Regulation numerical Pollutant Mobility Criteria																
ug/kg = microgram per kilogram																
mg/kg = milligram per kilogram																
mg/L = milligram per liter																

RA-5
Soil Sampling Results

AOC		RDEC	I/C DEC	GB PMC	RA-5	RA-5	RA-5	RA-5	RA-5	RA-5	RA-5	RA-5	RA-5	RA-5	RA-5	RA-5	RA-5	RA-5	RA-5	RA-5
SAMP_ID					S-1	S-2	AOC5E	AOC5W	1N	2N	3N	1S	2S	3S	1E	2E	3E	1W	2W	3W
SAMP_DATE					12-21-95	12-21-95	02-01-96	02-01-96	02-27-96	02-27-96	02-27-96	02-27-96	02-27-96	02-27-96	02-27-96	02-27-96	02-27-96	02-27-96	02-27-96	02-27-96
ANALYTE	Units				(13")	(13")			(6")	(24")	(36")	(6")	(24")	(36")	(6")	(24")	(36")	(6")	(24")	(36")
Metals by Mass Analysis																				
Antimony	MG/KG	27	8200	NE																
Arsenic	MG/KG	10	10	NE																
Barium	MG/KG	4700	140000	NE																
Cadmium	MG/KG	34	1000	NE																
Chromium	MG/KG	100	100	NE																
Copper	MG/KG	2500	76000	NE																
Lead	MG/KG	400	1000	NE																
Manganese	MG/KG	NE	NE	NE																
Mercury	MG/KG	20	610	NE																
Nickel	MG/KG	1400	7500	NE																
Silver	MG/KG	340	10000	NE																
Zinc	MG/KG	20000	610000	NE																
SPLP Metals																				
Arsenic	UG/L	NE	NE	500																
Barium	UG/L	NE	NE	10000																
Cadmium	UG/L	NE	NE	50	33	ND<5	10	9	ND<5	23	15	6	25	24	8	7	15	30	**88**	28
Chromium	UG/L	NE	NE	500																
Copper	UG/L	NE	NE	13000	70	10														
Lead	UG/L	NE	NE	150	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10
Nickel	UG/L	NE	NE	1000	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	70	ND<50
Vanadium	UG/L	NE	NE	500																
Zinc	UG/L	NE	NE	50000	470	ND<50	300	110	370	600	430	150	490	520	170	270	440	470	1130	630
TCLP Copper	UG/L																			
Sodium	UG/L	NE	NE	NE																
Zinc	UG/L	NE	NE	50000																
VOCs																				
Acetone	UG/KG	500000	1000000	140000																
Toluene	UG/KG	500000	1000000	67000																
TOC	MG/KG	NE	NE	NE																
Qualifiers/Abbreviations																				
Bold Values Exceed Standards																				
Blank = not analyzed																				
Res DEC = CT DEP Remediation Standard Regulation numerical Residential Direct I																				
I/C DEC = CT DEP Remediation Standard Regulation Industrial/Commercial numeric																				
GA PMC = CT DEP Remediation Standard Regulation numerical Pollutant Mobility Cr																				
ug/kg = microgram per kilogram																				
mg/kg = milligram per kilogram																				
mg/L = milligram per liter																				

RA-5
Soil Sampling Results

AOC		RDEC	I/C DEC	GB PMC	RA-5	RA-5	RA-5	RA-5
SAMP_ID					3BE	3BW	MW-9	MW-9
SAMP_DATE					02-27-96	02-27-96	1999	1999
ANALYTE	Units				(36")	(36")	(0-2')	(4-6')
Metals by Mass Analysis								
Antimony	MG/KG	27	8200	NE				
Arsenic	MG/KG	10	10	NE			10.1	1.2
Barium	MG/KG	4700	140000	NE			193	28
Cadmium	MG/KG	34	1000	NE			ND	ND
Chromium	MG/KG	100	100	NE			51.3	8.8
Copper	MG/KG	2500	76000	NE				
Lead	MG/KG	400	1000	NE			7.2	1.5
Manganese	MG/KG	NE	NE	NE				
Mercury	MG/KG	20	610	NE			0.04	0.05
Nickel	MG/KG	1400	7500	NE				
Silver	MG/KG	340	10000	NE			ND	ND
Zinc	MG/KG	20000	610000	NE				
SPLP Metals								
Arsenic	UG/L	NE	NE	500			ND	ND
Barium	UG/L	NE	NE	10000			ND	ND
Cadmium	UG/L	NE	NE	50	15	21	ND	ND
Chromium	UG/L	NE	NE	500			ND	ND
Copper	UG/L	NE	NE	13000				
Lead	UG/L	NE	NE	150	ND<10	ND<10	ND	ND
Nickel	UG/L	NE	NE	1000	ND<50	70		
Vanadium	UG/L	NE	NE	500				
Zinc	UG/L	NE	NE	50000	630	480		
TCLP Copper	UG/L							
Sodium	UG/L	NE	NE	NE				
Zinc	UG/L	NE	NE	50000				
VOCs								
Acetone	UG/KG	500000	1000000	140000			BDL	BDL
Toluene	UG/KG	500000	1000000	67000			BDL	BDL
TOC	MG/KG	NE	NE	NE				
Qualifiers/Abbreviations								
Bold Values Exceed Standards								
Blank = not analyzed								
Res DEC = CT DEP Remediation Standard Regulation numerical Residential Direct I								
I/C DEC = CT DEP Remediation Standard Regulation Industrial/Commercial numerica								
GA PMC = CT DEP Remediation Standard Regulation numerical Pollutant Mobility Cr								
ug/kg = microgram per kilogram								
mg/kg = milligram per kilogram								
mg/L = milligram per liter								

RA-5a
Soil Sampling Results

AOC		RDEC	I/C DEC	GB PMC	RA-5A	RA-5A	RA-5A	RA-5A	RA-5A	RA-5A
SAMP_ID					TB-68(0-1.5)	TB-69(7-8)	TB-70(0-2)	TB-70(2-4)	AOC5.5E	AOC5.5W
SAMP_DATE					12-19-02	12-19-02	12-19-02	12-19-02	02-01-96	02-01-96
ANALYTE	Units									
Metals by Mass Analysis										
Aluminum	MG/KG	NE	NE	NE				19400		
Arsenic	MG/KG	10	10	NE				5		
Barium	MG/KG	4700	140000	NE				185		
Cadmium	MG/KG	34	1000	NE				0.53		
Calcium	MG/KG	NE	NE	NE				3470		
Chromium	MG/KG	100	100	NE				48		
Cobalt	MG/KG	70	NE	NE				15.8		
Copper	MG/KG	2500	76000	NE				20.9		
Iron	MG/KG	NE	NE	NE	10200			27800		
Lead	MG/KG	400	1000	NE				9		
Magnesium	MG/KG	NE	NE	NE				10000		
Manganese	MG/KG	NE	NE	NE				581		
Nickel	MG/KG	1400	7500	NE				23.4		
Potassium	MG/KG	NE	NE	NE				5870		
Sodium	MG/KG	NE	NE	NE				203		
Vanadium	MG/KG	470	140000	NE				61		
Zinc	MG/KG	20000	610000	NE				57.7		
Metals by SPLP										
SPLP As	UG/L	NE	NE	500				11.8		
SPLP Ba	UG/L	NE	NE	10000				340		
SPLP Be	UG/L	NE	NE	40				1.4		
SPLP Cd	UG/L	NE	NE	50				0.77	ND<5	ND<5
SPLP Cr, t	UG/L	NE	NE	500				19.5		
SPLP Cu	UG/L	NE	NE	13000				24.9		
SPLP Pb	UG/L	NE	NE	150				16	ND<10	ND<10
SPLP Ni	UG/L	NE	NE	1000				15.7	ND<50	ND<50
SPLP Vn	UG/L	NE	NE	500				30.3		
VOCs										
2-Butanone	UG/KG	500000	1000000	80000	ND<4	35	ND<1			
Acetone	UG/KG	500000	1000000	140000	17	150	9			
Toluene	UG/KG	500000	1000000	67000	1	7	ND<1			
TOC	MG/KG	NE	NE	NE	1060					
Qualifiers/Abbreviations										
U = Not detected, below Quantitation Limits										
Bold Values Exceed Standards										
J = Estimated, below Quantitation Limit										
Blank = not analyzed										
Res DEC = CT DEP Remediation Standard Regulation numerical Residential Direct Exposure Criteria										
I/C DEC = CT DEP Remediation Standard Regulation Industrial/Commercial numerical Direct Exposure Criteria										
GB PMC = CT DEP Remediation Standard Regulation numerical Pollutant Mobility Criteria										
ug/kg = microgram per kilogram										
mg/kg = milligram per kilogram										
mg/L = milligram per liter										

RA-6: Former Silver Solder Cooling Tanks

Technical Memorandum

Former Howe Furniture
151 Woodward Ave, Norwalk, CT

I. RA Information

Howe Furniture formerly utilized two 80-100-gallon covered vats of silver solder cooling water used for the production of steel furniture parts. The tanks were reportedly in use from 1981 through 1995, when Howe Furniture operations ceased at the site. No secondary containment was observed during site inspections in 1992, and staining was observed on the floor in that area. Cooling water from the tanks was reportedly discharged to the sanitary sewer from 1981 to 1991 at a rate of 100 gallons per month. From 1991 to 1995, the cooling water was recirculated and containerized for off-site disposal when spent. Cooling water was reported to have contained trace concentrations of 1,1,1-trichloroethane.

The location of RA-6 is depicted on Figure 2 of the *Capstone Phase III Investigation Report*; the locations of all sampling points are depicted on Figure 3. A synopsis of all investigations is presented in the Conceptual Site Model Table (Table 1) of the *Capstone Phase III Investigation Report.* The results of concrete chip and soil sampling are included on tables attached to this Technical Memo. Investigations are discussed in chronological order in Sections III through V below.

II. Release Information

Potential release mechanisms include spills to the concrete floor, having the potential to affect soils immediately beneath the slab. Contaminants of Concern for RA-6 include metals, ETPH, and VOCs.

III. Phase II Investigation

Report: *Summary of Investigations/Removal Activities Performed Inside the Howe Furniture Corporation Manufacturing Facility*, dated June 1996, prepared by HRP Associates, Inc.

HRP was directed to perform an evaluation of interior areas of concern to assess the potential for contamination of the concrete floor and underlying soils after the cessation of Howe Furniture manufacturing operations. HRP collected one concrete chip sample, AOC6, from the floor beneath the solder cooling tanks.

The concrete chip samples were analyzed for VOCs, TCLP 8 RCRA metals, plus copper, nickel and zinc, and SPLP cadmium, copper, nickel, and zinc.

Results of Concrete Chip Analysis

VOCs: No VOCs were detected in the concrete chip sample.

TCLP Metals: TCLP cadmium (0.015 mg/l), copper (0.04 mg/l), nickel (0.09 mg/l), and zinc (0.08 mg/l) were detected in the concrete sample.

SPLP Metals: SPLP copper was detected at 0.02 mg/l. No other SPLP metals were detected.

Concrete chips are not comparable to RSR standards, and thus, were used only as an indicator of compounds released that could potentially affect the soil below.

Based on soil excavation performed in adjacent release areas RA-5 and RA-5A, soil samples were collected from beneath the concrete slab in RA-6 to evaluate the extent of metals contamination present in the adjacent area. Two soil samples (AOC6E and AOC6W) were collected from an area adjacent to the pipe trench at AOC-5A and analyzed for SPLP metals. Leachable zinc was detected at 0.08 to 0.12 mg/l in the two soil samples, which is well below the GB PMC.

Reports: *Phase II Subsurface Investigation,* dated July 14, 1999, prepared by HRP Associates, Inc.

In 1999, HRP conducted additional soil investigations throughout the former Howe Furniture property, which included the installation of well MW-9. Based on site plans from 1999, MW-9 is located in RA-6. However, subsequent site plans depict MW-9 in the area of RA-5. It is uncertain if the base map or well survey may have been re-drawn or if this is a typographical error. As such, data from this well has been considered to be associated with RA-5 and RA-6 (please refer to Technical Memo RA-5/RA-5A for additional information). Soil samples were collected from MW-9 at 0-2 ft and 4-6 ft below grade and submitted for analysis VOCs by EPA Method 8021B, TPH by EPA Method 418.1, and 8 RCRA metals by mass analysis and SPLP method. Sample results indicated that low levels of total metals were detected, including arsenic, barium, chromium, lead, and mercury. No SPLP metals, TPH or VOCs were detected. All metals detections were well below applicable RSR standards, except for arsenic in MW-9 (0-2 ft), which contained arsenic at 10.1 mg/kg, which slightly exceeds the RDEC and I/CDEC of 10 mg/kg.

IV. Phase III Investigation

RFI VCA Work Plan and Quality Assurance Program Plan (QAPP), dated February 13, 2002, prepared by HRP Associates, Inc.

Environmental Condition Assessment Form, dated August 2003, prepared by HRP Associates, Inc.

In 2002, HRP conducted additional soil investigations in RA-6 to address data gaps identified in the RFI VCA Work Plan, including the confirmation of the presence of metals in soils beneath the building slab and the potential for residual VOC contamination. In December 2002, HRP installed soil boring TB-71 in the area of the former silver solder cooling tanks. The boring penetrated to a depth of 7 feet below the concrete slab. All soils encountered during boring installation were screened using x-ray fluorescence (XRF) to evaluate the potential for metals contamination. Samples with elevated metals during XRF screening were selected for laboratory analysis. Soil samples from 2-4 ft to 6-7 ft were submitted for laboratory analysis for VOCs, metals by mass analysis, and total organic carbon (TOC). All laboratory data was independently Tier II validated to ensure data usability.

Results of Soil Analysis

Metals: Aluminum, antimony, barium, cadmium, calcium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, silver, vanadium, and zinc were detected by mass analysis at concentrations below the DEC. The concentration of total chromium in sample TB-71 (2-4 ft) of 209 mg/kg exceeds the RDEC and I/C DEC of 100 mg/kg for hexavalent chromium. The concentration of arsenic in sample TB-71 (6-7 ft) of 22.1 mg/kg exceeds the RDEC and I/C DEC of 10 mg/kg.

VOCs: Trace concentrations of 2-butanone (23 ppb), acetone (100 ppb), ethylbenzene (3 ppb), xylenes (69 ppb), and toluene (2 ppb) were detected in sample TB-71 (6-7ft). The concentrations of VOCs were below all applicable RSR standards.

TOC: Total organic carbon was detected at 572 mg/kg in TB-71 (6-7 ft).

V. Groundwater Investigation

No monitoring wells have been installed within the footprint of RA-6, however, monitoring wells MW-7 and MW-9 were installed in the adjacent RA-5. Wells MW-7 and MW-9 have been sampled 11 times during events dating 1999 to 2009. Metals, breakdown products of TCA, 1-4-dioxane, MTBE, and ETPH have been detected in groundwater in these wells over time. The noted contaminants are not specifically contaminants of concern for RA-6, and thus are likely attributable to site-wide degradation of groundwater quality. A discussion of groundwater monitoring can be found in Section 4.0 of the *Capstone Phase III Investigation Report.*

VI. Current Status

Soil investigations, including the collection of 6 discrete soil samples, have confirmed a minor release of metals has occurred to the soil in RA-6. Soils beneath the building are within RSR criteria, except for individual exceedances of the RDEC and I/C DEC for arsenic and chromium.

It is anticipated that an Environmental Land Use Restriction (ELUR) will restrict the site to industrial/commercial use, and will render soils beneath the building slab inaccessible and environmentally isolated to achieve compliance with the RSR criteria.

RA-6
Concrete Chip Sampling Results

AOC		RA-6
SAMP_ID		AOC6
LAB_ID		chip
SAMP_DATE		10-18-95
ANALYTE	Units	Result
SPLP Metals		
SPLP Copper	UG/L	20
TCLP Metals		
TCLP Cadmium	UG/L	15
TCLP Copper	UG/L	40
TCLP Nickel	UG/L	90
TCLP Zinc	UG/L	80

Qualifiers/Abbreviations
BLANK CELLS = analysis not run
Blank Results Cells = Not analyzed
Blank Qualifier Cells = Validated Data within Quantitation Limits
J = Estimated, below Quantitation Limit
UJ = Estimated detection/Quantitation Limit Issues
NV = not validated
ug/kg = microgram per kilogram
mg/kg = milligram per kilogram
mg/L = milligram per liter

RA-6
Soil Sampling Results

AOC		RDEC	I/C DEC	GB PMC	RA-6	RA-6	RA-6	RA-6
SAMP_ID					TB-71(2-4)	TB-71(6-7)	AOC6E	AOC6W
SAMP_DATE					12-19-02	12-19-02	02-01-96	02-01-96
ANALYTE	Units							
Metals by Mass Analysis								
Aluminum	MG/KG	NE	NE	NE	22300	12800		
Antimony	MG/KG	27	8200	NE	4.3	1.2		
Arsenic	MG/KG	10	10	NE	6.3	**22.1**		
Barium	MG/KG	4700	140000	NE	185	31.4		
Beryllium	MG/KG	2	2	NE	ND<0.08	0.66		
Cadmium	MG/KG	34	1000	NE	0.67	0.81		
Calcium	MG/KG	NE	NE	NE	2980	5710		
Chromium	MG/KG	100	100	NE	**209**	39.5		
Cobalt	MG/KG	70	NE	NE	83.2	6.6		
Copper	MG/KG	2500	76000	NE	412	743		
Iron	MG/KG	NE	NE	NE	33200	11400		
Lead	MG/KG	400	1000	NE	10.1	329		
Magnesium	MG/KG	NE	NE	NE	11500	4880		
Manganese	MG/KG	NE	NE	NE	608	198		
Mercury	MG/KG	20	610	NE	ND<0.015	0.26		
Nickel	MG/KG	1400	7500	NE	86.8	22.4		
Potassium	MG/KG	NE	NE	NE	8000	2930		
Silver	MG/KG	340	10000	NE	ND<0.08	0.18		
Sodium	MG/KG	NE	NE	NE	220	2840		
Vanadium	MG/KG	470	140000	NE	67.5	63.4		
Zinc	MG/KG	20000	610000	NE	61.6	96.1		
SPLP Metals								
Zinc	mg/l	NE	NE	50			0.08	0.12
VOCs								
2-Butanone	UG/KG	500000	1000000	80000		23		
Acetone	UG/KG	500000	1000000	140000		100		
Ethylbenzene	UG/KG	500000	1000000	10100		3		
m,p-Xylene	UG/KG	500000	1000000	19500		41		
o-Xylene	UG/KG	500000	1000000	19500		28		
Toluene	UG/KG	500000	1000000	67000		2		
Xylene(Total)	UG/KG	500000	1000000	19500		68		
TOC	MG/KG	NE	NE	NE		572		
Qualifiers/Abbreviations								
U = Not detected, below Quantitation Limits								
Bold Values Exceed Standards								
J = Estimated, below Quantitation Limit								
Blank = not analyzed								
Res DEC = CT DEP Remediation Standard Regulation numerical Residential Direct Exposure Criteria								
I/C DEC = CT DEP Remediation Standard Regulation Industrial/Commercial numerical Direct Exposure Criteria								
GB PMC = CT DEP Remediation Standard Regulation numerical Pollutant Mobility Criteria								
ug/kg = microgram per kilogram								
mg/kg = milligram per kilogram								
mg/L = milligram per liter								

PRA-7: Former Vapor Degreaser

Technical Memorandum

Former Howe Furniture
151 Woodward Ave, Norwalk, CT

I. RA Information

Howe Furniture formerly utilized 1,1,1-trichloroethane vapor degreaser for cleaning metal parts. The degreaser was reportedly in use from 1989 through 1995, when Howe Furniture operations ceased at the site. Spent solvent was stored in a 55-gallon drum attached to the degreasing unit. Approximately 80 to 220 gallons of spent solvent was generated per month.

The location of RA-7 is depicted on Figure 2 of the *Capstone Phase III Investigation Report*; the locations of all sampling points are depicted on Figure 3. A synopsis of all investigations is presented in the Conceptual Site Model Table (Table 1) of the *Capstone Phase III Investigation Report.* The results of concrete chip and soil sampling are included on tables attached to this Technical Memo. Investigations are discussed in chronological order in Sections III through V below.

II. Release Information

Potential release mechanisms include spills to the concrete floor, having the potential to affect soils immediately beneath the slab. Contaminants of Concern for RA-7 include VOCs, ETPH, and metals.

III. Phase II Investigation

Report: *Summary of Investigations/Removal Activities Performed Inside the Howe Furniture Corporation Manufacturing Facility*, dated June 1996, prepared by HRP Associates, Inc.

HRP was directed to perform an evaluation of interior areas of concern to assess the potential for contamination of the concrete floor and underlying soils after the cessation of Howe Furniture manufacturing operations. HRP collected two concrete chip samples, AOC7E and AOC7W from the floor beneath the degreaser. A soil sample, AOC7Soil, was collected from beneath the concrete slab in the area of a suspected crack.

The concrete chip samples were analyzed for TCLP 8 RCRA metals, plus copper, nickel and zinc, and SPLP barium, cadmium, copper, and zinc. Soil was analyzed for TCLP 8 RCRA metals, plus copper, nickel, and zinc, and SPLP barium, cadmium, copper, nickel, and zinc.

Results of Concrete Chip Analysis

TCLP Metals: TCLP barium (0.5 mg/l), cadmium (0.006 to 0.008 mg/l), copper (0.02 to 0.03 mg/l), and zinc (0.13 to 0.59 mg/l) were detected in the concrete samples.

SPLP Metals: No SPLP metals were detected.

Concrete chips are not comparable to RSR standards, and thus, were used only as an indicator of compounds released that could potentially affect the soil below.

Results of Soil Analysis

TCLP Metals: TCLP barium (0.5 mg/l), cadmium (0.0071 mg/l), copper (0.17 mg/l), nickel (0.11 mg/l), and zinc (0.142 mg/l) were detected in soil.

SPLP Metals: No SPLP metals were detected. The detections of metals in soil were below all applicable RSR criteria.

Reports: *Phase II Subsurface Investigation*, dated July 14, 1999, prepared by HRP Associates, Inc.

In 1999, HRP conducted additional soil investigations throughout the former Howe Furniture property, which included the installation of well MW-8 in RA-7. A soil sample was collected from MW-8 at 0-2 ft below grade and submitted for analysis VOCs by EPA Method 8021B, TPH by EPA Method 418.1, and 8 RCRA metals by mass analysis. Sample results indicated that low levels of total metals were detected, including arsenic, barium, chromium, lead, and mercury. No TPH or VOCs were detected. All metals detections were well below applicable RSR standards.

IV. Phase III Investigation

RFI VCA Work Plan and Quality Assurance Program Plan (QAPP), dated February 13, 2002, prepared by HRP Associates, Inc.

Environmental Condition Assessment Form, dated August 2003, prepared by HRP Associates, Inc.

In 2002, HRP conducted additional soil investigations in RA-7 to address data gaps identified in the RFI VCA Work Plan, including the confirmation of the presence of metals in soils beneath the building slab and the potential for residual VOC contamination. In December 2002, HRP installed three soil borings, TB-65, TB-66, and TB-67, in the area of the former degreaser. The borings penetrated to depth of up to 8 feet below the concrete slab. All soils encountered during boring installation were screened using x-ray fluorescence (XRF) to evaluate the potential for metals contamination. Samples with elevated metals during XRF screening were selected for laboratory analysis. Soil samples from 6-7 ft and 7-8 ft were submitted for laboratory analysis for VOCs and metals by mass analysis and SPLP. All laboratory data was independently Tier II validated to ensure data usability.

Results of Soil Analysis

Metals: Aluminum, tin, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, selenium, silver, sodium, thallium, vanadium, and zinc were detected by mass analysis at concentrations below the DEC. The concentration of arsenic in sample TB-65 (6-7 ft) of 12.4 mg/kg exceeds the RDEC and I/C DEC of 10 mg/kg. The concentration of total chromium in sample TB-67 (6-7 ft) of 185 mg/kg exceeds the RDEC and I/C DEC of 100 mg/kg for hexavalent chromium.

VOCs: Trace concentrations of 2-butanone (36 ppb), acetone (170 ppb), and toluene (15 ppb) were detected in sample TB-65 (7-8 ft). 1,1-Dichloroethane was also detected at 2 ppb. The concentrations of VOCs were below all applicable RSR standards.

V. Groundwater Investigation

Monitoring wells MW-7 and MW-8 were installed inside the building in the vicinity of RA-7 to evaluate groundwater quality in 1999. Wells MW-7 and MW-8 have been sampled 11 times during events dating 1999 to 2009. Metals, breakdown products of TCA, 1-4-dioxane, acetone, and ETPH have been detected in groundwater in these wells over time. It is possible that the breakdown products of TCA observed in groundwater in this area are the result of residual contamination originating from the former degreaser. The noted contaminants have decreased over time and are not currently in exceedance of RSR criteria. A discussion of site-wide groundwater monitoring can be found in Section 4.0 of the *Capstone Phase III Investigation Report.*

VI. Current Status

Soil investigations (including 3 concrete chip samples and 5 soil samples) have confirmed a minor release of metals has occurred to the soil in RA-7. Soils beneath the building are within RSR criteria, except for individual exceedances of the RDEC and I/C DEC for arsenic and chromium. Although no VOC contamination from the degreaser has been identified in soil, evidence of solvent contamination consistent with TCA has been observed in groundwater at the site. The groundwater VOC contamination is currently below RSR criteria and is expected to continue to decrease over time.

It is anticipated that an Environmental Land Use Restriction (ELUR) will restrict the site to industrial/commercial use, and will render soils beneath the building slab inaccessible and environmentally isolated to achieve compliance with the RSR criteria.

PRA-7
Concrete Chip Sampling Results

AOC		PRA-7	PRA-7
SAMP_ID		AOC7W	AOC7E
LAB_ID		chip	chip
SAMP_DATE		10-18-95	10-18-95
ANALYTE	Units	Result	Result
TCLP Barium	UG/L		500
TCLP Cadmium	UG/L	8	6
TCLP Copper	UG/L	30	20
TCLP Zinc	UG/L	590	130

Qualifiers/Abbreviations
BLANK CELLS = analysis not run
Blank Results Cells = Not analyzed
Blank Qualifier Cells = Validated Data within Quantitation Limits
J = Estimated, below Quantitation Limit
UJ = Estimated detection/Quantitation Limit Issues
NV = not validated
ug/kg = microgram per kilogram
mg/kg = milligram per kilogram
mg/L = milligram per liter

PRA-7
Soil Sampling Results

AOC		RDEC	I/C DEC	GB PMC	PRA-7	PRA-7	PRA-7	PRA-7	PRA-7
SAMP_ID					TB-65(6-7)	TB-65(7-8)	TB-67(6-7)	MW-8	AOC7-Soil
SAMP_DATE					12-19-02	12-19-02	12-19-02	1999	10-18-95
ANALYTE	Units							(0-2')	
TPH by 418.1	MG/KG	500	2500	2500				ND<25	
Metals by Mass Analysis									
Total Al	MG/KG	NE	NE	NE	6400		11800		
Total Sb	MG/KG	27	8200	NE	1.9		7.1		
Total As	MG/KG	10	10	NE	**12.4**		6.1	1.2	
Total Ba	MG/KG	4700	140000	NE	26.4		30	94	
Total Be	MG/KG	2	2	NE	0.37		0.33		
Total Cd	MG/KG	34	1000	NE	1		0.61	ND<0.5	
Total Ca	MG/KG	NE	NE	NE	4780		6470		
Total Cr, t	MG/KG	100	100	NE	58.2		**185**	28.5	
Total Co	MG/KG	70	NE	NE	8.4		18.5		
Total Cu	MG/KG	2500	76000	NE	982		715		
Total Fe	MG/KG	NE	NE	NE	12000		17900		
Total Pb	MG/KG	400	1000	NE	110		82.6	5.2	
Total Mg	MG/KG	NE	NE	NE	3320		5540		
Total Mn	MG/KG	NE	NE	NE	114		182		
Total Hg	MG/KG	20	610	NE	0.64		0.082	0.03	
Total Ni	MG/KG	1400	7500	NE	69.2		28.7		
Total K	MG/KG	NE	NE	NE	2010		3900		
Total Se	MG/KG	340	10000	NE	0.95		ND<0.36	ND<0.5	
Total Ag	MG/KG	340	10000	NE	0.72		ND<0.089	ND<0.2	
Na	MG/KG	NE	NE	NE	7240		8150		
Total Ti	MG/KG	5.4	160	NE	ND<0.2		0.27		
Total Vn	MG/KG	470	140000	NE	32.8		33.2		
Total Zn	MG/KG	20000	610000	NE	114		50.8		
Metals by SPLP									
SPLP As	UG/L	NE	NE	500	15.2				
SPLP Ba	UG/L	NE	NE	10000	228				ND
SPLP Cr, t	UG/L	NE	NE	500	11.1				
SPLP Cu	UG/L	NE	NE	13000	13.5				ND
SPLP Pb	UG/L	NE	NE	150	12.1				
SPLP Ni	UG/L	NE	NE	1000	9.3				ND
SPLP Vn	UG/L	NE	NE	500	184				
Metals by TCLP									
TCLP Ba	UG/L	NE	NE	10000					500
TCLP Cd	UG/L	NE	NE	50					71
TCLP Cu	UG/L	NE	NE	13000					170
TCLP Ni	UG/L	NE	NE	1000					110
TCLP Zn	UG/L	NE	NE	50000					420
VOCs									
1,1-Dichloroethane	UG/KG	500000	1000000	14000		2		BDL	BDL
2-Butanone	UG/KG	500000	1000000	80000		36		BDL	BDL
Acetone	UG/KG	500000	1000000	140000		170		BDL	BDL
Toluene	UG/KG	500000	1000000	67000		15		BDL	BDL
Qualifiers/Abbreviations									
U = Not detected, below Quantitation Limits									
Bold Values Exceed Standards									
J = Estimated, below Quantitation Limit									
Blank = not analyzed									
Res DEC = CT DEP Remediation Standard Regulation numerical Residential Direct Exposure Criteria									
I/C DEC = CT DEP Remediation Standard Regulation Industrial/Commercial numerical Direct Exposure Criteria									
GA PMC = CT DEP Remediation Standard Regulation numerical Pollutant Mobility Criteria									
ug/kg = microgram per kilogram									
mg/kg = milligram per kilogram									
mg/L = milligram per liter									

PRA-8: Former Pre-Powder Cleaning Lines and Tanks

Technical Memorandum

Former Howe Furniture
151 Woodward Ave, Norwalk, CT

I. RA Information

Howe Furniture operations involved the cleaning of metal parts prior to powder coating. The process included three enclosed tanks of 1,750-, 1,150-, and 250-gallons size. The cleaning process generated rinsewaters containing residual bromodichloromethane, chloroform, xylenes, and 1,1,1-trichloroethane, which were discharged to the sanitary sewer from 1960 to 1986. From 1986 to 1995, rinsewaters were kept in a closed-loop circuit. Use of the cleaning lines ceased in 1995.

The location of RA-8 is depicted on Figure 2 of the *Capstone Phase III Investigation Report*; the locations of all sampling points are depicted on Figure 3. A synopsis of all investigations is presented in the Conceptual Site Model Table (Table 1) of the *Capstone Phase III Investigation Report.* The results of concrete chip and soil sampling are included on tables attached to this Technical Memo. Investigations are discussed in chronological order in Sections III through IV below.

II. Release Information

Potential release mechanisms include spills to the concrete floor, having the potential to affect soils immediately beneath the slab. Contaminants of Concern for RA-8 include VOCs, ETPH, and metals.

III. Phase II Investigation

Report: *Summary of Investigations/Removal Activities Performed Inside the Howe Furniture Corporation Manufacturing Facility,* dated June 1996, prepared by HRP Associates, Inc.

HRP was directed to perform an evaluation of interior areas of concern to assess the potential for contamination of the concrete floor and underlying soils after the cessation of Howe Furniture manufacturing operations. HRP collected two concrete chip samples, AOC8N and AOC8S from the floor beneath the tanks.

The concrete chip samples were analyzed for VOCs, TCLP 8 RCRA metals, plus copper, nickel and zinc, and SPLP barium, copper, and zinc.

Results of Concrete Chip Analysis

VOCs: No VOCs were detected in concrete.

TCLP Metals: TCLP barium (0.6 mg/l), copper (0.02 to 0.03 mg/l), and zinc (0.58 mg/l) were detected in the concrete samples.

SPLP Metals: No SPLP metals were detected.

Concrete chips are not comparable to RSR standards, and thus, were used only as an indicator of compounds released that could potentially affect the soil below. No evidence of a release was identified.

Reports: *Phase II Subsurface Investigation*, dated July 14, 1999, prepared by HRP Associates, Inc.

In 1999, HRP conducted additional soil investigations throughout the former Howe Furniture property, which included the installation of well MW-1 in RA-8. A soil sample was collected from MW-1 at 0-2 ft below grade and submitted for analysis VOCs by EPA Method 8021B, TPH by EPA Method 418.1, and 8 RCRA metals by mass analysis and SPLP. Sample results indicated that low levels of total metals were detected, including arsenic, barium, chromium, and lead. No TPH, SPLP metals, or VOCs were detected. All metals detections were well below applicable RSR standards.

IV. Groundwater Investigation

Monitoring well MW-1 was installed inside the building in RA-8 to evaluate groundwater quality in 1999. Well MW-1 has been sampled 11 times during events dating 1999 to 2009. Metals, acetone, and ETPH have been detected in groundwater in these wells over time, but are interpreted to be a site-wide groundwater impact, and not indicative of a release from RA-8. A discussion of site-wide groundwater monitoring can be found in Section 4.0 of the *Capstone Phase III Investigation Report.*

V. Current Status

No evidence of a release from this RA has been identified during soil investigations. All soils beneath the building are within RSR criteria. No additional investigation or remediation is recommended or required.

PRA-8
Concrete Chip Sampling Results

AOC		PRA-8	PRA-8
SAMP_ID		AOC8N	AOC8S
LAB_ID		chip	chip
SAMP_DATE		10-18-95	10-18-95
ANALYTE	Units	Result	Result
SPLP Metals		ND	ND
TCLP Metals			
TCLP Barium	UG/L		600
TCLP Copper	UG/L	30	20
TCLP Zinc	UG/L		580

Qualifiers/Abbreviations
BLANK CELLS = analysis not run
Blank Results Cells = Not analyzed
Blank Qualifier Cells = Validated Data within Quantitation Limits
J = Estimated, below Quantitation Limit
UJ = Estimated detection/Quantitation Limit Issues
NV = not validated
ug/kg = microgram per kilogram
mg/kg = milligram per kilogram
mg/L = milligram per liter

PRA-8
Soil Sampling Results

AOC		RDEC	I/C DEC	GB PMC	PRA-8			
SAMP_ID					MW-1			
SAMP_DATE					1999			
ANALYTE	Units				(0-2')			
TPH - 418.1	MG/KG	500	2500	2500	ND			
Metals by Mass Analysis								
Arsenic	MG/KG	10	10	NE	7.2			
Barium	MG/KG	4700	140000	NE	113			
Chromium	MG/KG	100	100	NE	28.9			
Lead	MG/KG	400	1000	NE	9			
Mercury	MG/KG	20	610	NE	ND			
Qualifiers/Abbreviations								
U = Not detected, below Quantitation Limits								
Bold Values Exceed Standards								
J = Estimated, below Quantitation Limit								
Blank = not analyzed								
Res DEC = CT DEP Remediation Standard Regulation numerical Residential Direct Exposure Criteria								
I/C DEC = CT DEP Remediation Standard Regulation Industrial/Commercial numerical Direct Exposure Criteria								
GB PMC = CT DEP Remediation Standard Regulation numerical Pollutant Mobility Criteria								
ug/kg = microgram per kilogram								
mg/kg = milligram per kilogram								
mg/L = milligram per liter								

PRA-9: Former Dust/Powder Overspray Area

Technical Memorandum

Former Howe Furniture
151 Woodward Ave, Norwalk, CT

I. RA Information

Howe Furniture operations involved application of powder coat to metal parts. An area for overspray was identified during site inspections. The dust filtration and collection system was in-place during the history of this area's usage (1980 to 1995).

The location of RA-9 is depicted on Figure 2 of the *Capstone Phase III Investigation Report*; the locations of all sampling points are depicted on Figure 3. A synopsis of all investigations is presented in the Conceptual Site Model Table (Table 1) of the *Capstone Phase III Investigation Report.* The results of concrete chip and soil sampling are included on tables attached to this Technical Memo. Investigations are discussed in chronological order in Sections III through IV below.

II. Release Information

Potential pathways to soil and groundwater have not been identified for solid material (dust) released in this area. Contaminants of Concern for RA-9 include VOCs, ETPH, and metals.

III. Phase II Investigation

Report: *Summary of Investigations/Removal Activities Performed Inside the Howe Furniture Corporation Manufacturing Facility*, dated June 1996, prepared by HRP Associates, Inc.

HRP was directed to perform an evaluation of interior areas of concern to assess the potential for contamination of the concrete floor and underlying soils after the cessation of Howe Furniture manufacturing operations. HRP collected a concrete chip sample, AOC9 from the floor in this area.

The concrete chip samples were analyzed for VOCs, TCLP 8 RCRA metals, plus copper, nickel and zinc, and SPLP barium, copper, and zinc.

Results of Concrete Chip Analysis

VOCs: No VOCs were detected in concrete.

TCLP Metals: TCLP barium (1.0 mg/l), copper (0.04 mg/l), and zinc (0.43 mg/l) were detected in the concrete sample.

SPLP Metals: No SPLP metals were detected.

Concrete chips are not comparable to RSR standards, and thus, were used only as an indicator of compounds released that could potentially affect the soil below. No evidence of a release was identified.

Reports: *Phase II Subsurface Investigation*, dated July 14, 1999, prepared by HRP Associates, Inc.

In 1999, HRP conducted additional soil investigations throughout the former Howe Furniture property, which included the installation of boring TB-2 in RA-9. A soil sample was collected from TB-2 at 0-2 ft below grade and submitted for analysis for VOCs by EPA Method 8021B, TPH by EPA Method 418.1, and 8 RCRA metals by mass analysis and SPLP. Sample results indicated that low levels of total metals were detected, including arsenic, barium, chromium, and lead. No TPH, SPLP metals, or VOCs were detected. All metals detections were well below applicable RSR standards.

IV. Groundwater Investigation

An evaluation of groundwater within RA-9 has not been conducted due to a lack of contaminant migration pathway. A discussion of site-wide groundwater monitoring can be found in Section 4.0 of the *Capstone Phase III Investigation Report.*

V. Current Status

No evidence of a release from this RA has been identified during soil investigations. All soils beneath the building are within RSR criteria. No additional investigation or remediation is recommended or required.

PRA-9
Concrete Chip Sampling Results

AOC		PRA-9
SAMP_ID		AOC9
LAB_ID		chip
SAMP_DATE		10-18-95
ANALYTE	Units	Result
SPLP Metals		ND
TCLP Barium	UG/L	1000
TCLP Copper	UG/L	40
TCLP Zinc	UG/L	430

Qualifiers/Abbreviations
BLANK CELLS = analysis not run
Blank Results Cells = Not analyzed
Blank Qualifier Cells = Validated Data within Quantitation Limits
NV = not validated
ug/kg = microgram per kilogram
mg/kg = milligram per kilogram
mg/L = milligram per liter

PRA-9
Soil Sampling Results

AOC		RDEC	I/C DEC	GB PMC	PRA-9			
SAMP_ID					TB-2			
SAMP_DATE					1999			
ANALYTE	Units							
TPH - 418.1	MG/KG	500	2500	2500	ND			
Metals by Mass Analysis								
Arsenic	MG/KG	10	10	NE	5.8			
Barium	MG/KG	4700	140000	NE	57			
Chromium	MG/KG	100	100	NE	17.2			
Lead	MG/KG	400	1000	NE	6.9			
Mercury	MG/KG	20	610	NE	ND			
Qualifiers/Abbreviations								
U = Not detected, below Quantitation Limits								
Bold Values Exceed Standards								
J = Estimated, below Quantitation Limit								
Blank = not analyzed								
Res DEC = CT DEP Remediation Standard Regulation numerical Residential Direct Exposure Criteria								
I/C DEC = CT DEP Remediation Standard Regulation Industrial/Commercial numerical Direct Exposure Criteria								
GB PMC = CT DEP Remediation Standard Regulation numerical Pollutant Mobility Criteria								
ug/kg = microgram per kilogram								
mg/kg = milligram per kilogram								
mg/L = milligram per liter								

PRA-10: Former Powder Curing/Baking Area

Technical Memorandum

Former Howe Furniture
151 Woodward Ave, Norwalk, CT

I. RA Information

Howe Furniture operations involved application of powder coat to metal parts. The baking oven and curing area were in use from 1960 to 1995.

The location of PRA-10 is depicted on Figure 2 of the *Capstone Phase III Investigation Report*; the locations of all sampling points are depicted on Figure 3. A synopsis of all investigations is presented in the Conceptual Site Model Table (Table 1) of the *Capstone Phase III Investigation Report.* The results of concrete chip and soil sampling are included on tables attached to this Technical Memo. Investigations are discussed in chronological order in Sections III through IV below.

II. Release Information

Previous consultants identified a release of trace amounts of isocyanite and caprolactam to the air from this RA as fine particulates. However, potential pathways to soil and groundwater have not been identified for solid material or gases released in this area. Fine particulates released as dust are not expected to migrate through the concrete floor to the soils or groundwater beneath. Contaminants of Concern for RA-10 include VOCs, ETPH, and metals.

III. Phase II Investigation

Report: *Summary of Investigations/Removal Activities Performed Inside the Howe Furniture Corporation Manufacturing Facility*, dated June 1996, prepared by HRP Associates, Inc.

HRP was directed to perform an evaluation of interior areas of concern to assess the potential for contamination of the concrete floor and underlying soils after the cessation of Howe Furniture manufacturing operations. HRP collected two concrete chip samples, AOC10E and AOC10W, from the floor in this area. A soil sample, AOC10Soil, was collected from beneath the concrete slab.

The concrete chip samples were analyzed for VOCs, TCLP 8 RCRA metals, plus copper, nickel and zinc, and SPLP barium, cadmium, copper, and zinc. The soil sample was analyzed for VOCs, TCLP 8 RCRA metals, plus copper, nickel and zinc, and SPLP cadmium, copper, lead, and zinc.

Results of Concrete Chip Analysis

VOCs: No VOCs were detected in concrete.

TCLP Metals: TCLP barium (0.7 to 1.0 mg/l), cadmium (0.012 to 0.013 mg/l), copper (0.09 to 0.3 mg/l), and zinc (1.37 to 3.09 mg/l) were detected in the concrete samples.

SPLP Metals: Leachable copper (0.01 to 0.02 mg/l) was detected in each concrete chip sample. No other SPLP metals were detected.

Concrete chips are not comparable to RSR standards, and thus, were used only as an indicator of compounds released that could potentially affect the soil below. No evidence of a release was identified.

Results of Soil Analysis

VOCs: No VOCs were detected in soil.

TCLP Metals: TCLP cadmium (0.008 mg/l), copper (0.06 mg/l), lead (0.011 mg/l), and zinc (5.68 mg/l) were detected in soil.

SPLP Metals: Leachable copper (0.01 mg/l) was detected in soil. No other SPLP metals were detected. All metals detections were below applicable RSR criteria.

Reports: *Phase II Subsurface Investigation*, dated July 14, 1999, prepared by HRP Associates, Inc.

In 1999, HRP conducted additional soil investigations throughout the former Howe Furniture property, which included the installation of boring TB-1 in RA-10. A soil sample was collected from TB-1 at 0-2 ft and 6-8 ft below grade and submitted for analysis for VOCs by EPA Method 8021B, TPH by EPA Method 418.1, and 8 RCRA metals by mass analysis. Sample results indicated that low levels of total metals were detected, including arsenic, barium, chromium, lead, and mercury. No TPH or VOCs were detected. All metals detections were well below applicable RSR standards.

IV. Groundwater Investigation

An evaluation of groundwater within RA-10 has not been conducted due to a lack of contaminant migration pathway. A discussion of site-wide groundwater monitoring can be found in Section 4.0 of the *Capstone Phase III Investigation Report.*

V. Current Status

No evidence of a release from this RA has been identified during soil investigations. All soils beneath the building are within RSR criteria. No additional investigation or remediation is recommended or required.

PRA-10
Concrete Chip Sampling Results

AOC		PRA-10	PRA-10	PRA-10
SAMP_ID		AOC10E	AOC10W	AOC10S
LAB_ID		chip	chip	chip
SAMP_DATE		10-18-95	10-18-95	10-18-95
ANALYTE	Units	Result	Result	Result
SPLP Metals				
SPLP Copper	UG/L	20	10	10
TCLP Metals				
TCLP Barium	UG/L	1000	700	
TCLP Cadmium	UG/L	12	13	
TCLP Copper	UG/L	90	300	
TCLP Zinc	UG/L	3090	1370	

Qualifiers/Abbreviations
BLANK CELLS = analysis not run
Blank Results Cells = Not analyzed
Blank Qualifier Cells = Validated Data within Quantitation Limits
NV = not validated
ug/kg = microgram per kilogram
mg/kg = milligram per kilogram
mg/L = milligram per liter

PRA-10
Soil Sampling Results

AOC		RDEC	I/C DEC	GB PMC	PRA-10	PRA-10	PRA-10
SAMP_ID					AOC10-Soil	TB-1	TB-1
SAMP_DATE					10/18/95	1999	1999
ANALYTE	Units					0-2'	6-8'
TPH by 418.1	mg/kg	500	2500	2500			ND<25
Metals by Mass Analysis							
Arsenic	MG/KG	10	10	NE		3.1	
Barium	MG/KG	4700	140000	NE		41	
Cadmium	MG/KG	34	1000	NE		ND <0.5	
Chromium	MG/KG	100	100	NE		21.5	
Lead	MG/KG	400	1000	NE		13.5	
Mercury	MG/KG	20	610	NE		0.23	
TCLP Metals							
Cadmium	mg/l	NE	NE	0.05	0.008		
Copper	mg/l	NE	NE	13	0.06		
Lead	mg/l	NE	NE	0.15	0.011		
Zinc	mg/l	NE	NE	50	5.68		
VOCs	ppb	NE	NE	NE			ND
Qualifiers/Abbreviations							
Bold Values Exceed Standards							
Blank = not analyzed							
Res DEC = CT DEP Remediation Standard Regulation numerical Residential Direct Exposure Criteria							
I/C DEC = CT DEP Remediation Standard Regulation Industrial/Commercial numerical Direct Exposure Criteria							
GB PMC = CT DEP Remediation Standard Regulation numerical Pollutant Mobility Criteria							
ug/kg = microgram per kilogram							
mg/kg = milligram per kilogram							
mg/L = milligram per liter							

RA-11: Former Lacquer Spray Hood Area

Technical Memorandum

Former Howe Furniture
151 Woodward Ave, Norwalk, CT

I. RA Information

Two individual spray hoods were formerly utilized for painting and staining of furniture from 1985 to 1995. Spray hoods employed a vacuum to draw vapors and mists through coarse filter pads. Spray hood filter pads were also stored in this area. The pads were tested and found to contain 2-butanone (also known as methyl ethyl ketone), and o-cresol.

The location of RA-11 is depicted on Figure 2 of the *Capstone Phase III Investigation Report*; the locations of all sampling points are depicted on Figure 3. A synopsis of all investigations is presented in the Conceptual Site Model Table (Table 1) of the *Capstone Phase III Investigation Report.* The results of concrete chip and soil sampling are included on tables attached to this Technical Memo. Investigations are discussed in chronological order in Sections III through IV below.

II. Release Information

Previous consultants identified that release from the spray hoods would likely impact air. Potential pathways to soil and groundwater have not been identified for solid material or gases released in this area. Fine particulates released as dust are not expected to migrate through the concrete floor to the soils or groundwater beneath. Contaminants of Concern for RA-11 include VOCs.

III. Phase II Investigation

Report: *Summary of Investigations/Removal Activities Performed Inside the Howe Furniture Corporation Manufacturing Facility*, dated June 1996, prepared by HRP Associates, Inc.

HRP was directed to perform an evaluation of interior areas of concern to assess the potential for contamination of the concrete floor and underlying soils after the cessation of Howe Furniture manufacturing operations. HRP collected two concrete chip samples, AOC11E and AOC11S, from the floor in each spray hood area.

The concrete chip samples were analyzed for VOCs, TCLP 8 RCRA metals, plus copper, nickel and zinc, and SPLP copper and zinc.

Results of Concrete Chip Analysis

VOCs: Methyl isobutyl ketone (MIBK) was detected at 178 ppb in concrete sample AOC11S. No other VOCs were detected in concrete.

TCLP Metals: TCLP copper (0.02 to 0.03 mg/l) and zinc (0.06 to 0.09 mg/l) were detected in the concrete samples.

SPLP Metals: Leachable copper (0.01 mg/l) was detected in concrete chip sample AOC11S. No other SPLP metals were detected.

Concrete chips are not comparable to RSR standards, and thus, were used only as an indicator of compounds released that could potentially affect the soil below.

Reports: *Phase II Subsurface Investigation*, dated July 14, 1999, prepared by HRP Associates, Inc.

In 1999, HRP conducted additional soil investigations throughout the former Howe Furniture property, which included the installation of wells MW-4 and MW-5 in each of the former spray hood locations. A soil sample was collected from each well at 2-4 feet below grade and submitted for analysis for VOCs by EPA Method 8021B, TPH by EPA Method 418.1, and 8 RCRA metals by mass analysis. Sample results indicated that low levels of total metals were detected, including arsenic, barium, chromium, lead, and mercury. TPH was detected at 44 ppm in sample MW-5 (2-4 ft). No TPH was detected in MW-4 and no VOCs were detected in either sample. All metals detections were well below applicable RSR standards.

IV. Groundwater Investigation

Monitoring wells MW-4 and MW-5 were installed inside the building at RA-11 to evaluate groundwater quality in 1999. Wells MW-4 and MW-5 were sampled once in 1999. Trace concentrations of chlorinated VOCs were detected in groundwater in these wells at that time. The noted contaminants are not specifically contaminants of concern for this release area, and thus are likely attributable to site-wide degradation of groundwater quality and not a specific release from RA-11. A discussion of groundwater monitoring can be found in Section 4.0 of the *Capstone Phase III Investigation Report.*

V. Current Status

Evidence of a minor release of MIBK and petroleum to the concrete slab has been identified in the southernmost former spray hood area. However, no impact to soils or groundwater beneath the building was identified. No additional investigation or remediation is recommended or required.

RA-11
Concrete Chip Sampling Results

AOC		RA-11	RA-11
SAMP_ID		AOC11E	AOC11S
LAB_ID		chip	chip
SAMP_DATE		10-18-95	10-18-95
ANALYTE	Units	Result	Result
SPLP Metals			
SPLP Copper	UG/L	ND<10	10
TCLP Metals			
TCLP Copper	UG/L	20	30
TCLP Zinc	UG/L	60	90
VOCs			
MIBK	UG/KG	BDL	178

Qualifiers/Abbreviations
BLANK CELLS = analysis not run
Blank Results Cells = Not analyzed
Blank Qualifier Cells = Validated Data within Quantitation Limits
NV = not validated
ug/kg = microgram per kilogram
mg/kg = milligram per kilogram
mg/L = milligram per liter

RA-11
Soil Sampling Results

AOC		RDEC	I/C DEC	GB PMC	RA-11	RA-11
SAMP_ID					MW-4	MW-5
SAMP_DATE					1999	1999
ANALYTE	Units				(2-4')	(2-4')
TPH - 418.1	MG/KG	500	2500	2500	ND	44
Metals by Mass Analysis						
Arsenic	MG/KG	10	10	NE	3.1	1.9
Barium	MG/KG	4700	140000	NE	68	25
Chromium	MG/KG	100	100	NE	17.3	7.3
Lead	MG/KG	400	1000	NE	17.8	2.6
Mercury	MG/KG	20	610	NE	0.08	0.03
Qualifiers/Abbreviations						
Bold Values Exceed Standards						
Blank = not analyzed						
Res DEC = CT DEP Remediation Standard Regulation numerical Residential Direct Exposure Criteria						
I/C DEC = CT DEP Remediation Standard Regulation Industrial/Commercial numerical Direct Exposure Criteria						
GB PMC = CT DEP Remediation Standard Regulation numerical Pollutant Mobility Criteria						
ug/kg = microgram per kilogram						
mg/kg = milligram per kilogram						
mg/L = milligram per liter						

RA-13: TPH-Impacted Soils

Technical Memorandum

Former Howe Furniture
151 Woodward Ave, Norwalk, CT

I. RA Information

An area of soils impacted with petroleum contamination was identified during subsurface investigations in 1999. The source of the contamination is uncertain but may be related to the former shredder or dumpster, located exterior to the former Howe Furniture carpentry room, or could be the result of asphalt cross-contamination in the shallow soil samples.

The location of RA-13 is depicted on Figure 2 of the *Capstone Phase III Investigation Report*; the locations of all sampling points are depicted on Figure 3. A synopsis of all investigations is presented in the Conceptual Site Model Table (Table 1) of the *Capstone Phase III Investigation Report.* The results of soil sampling are included on tables attached to this Technical Memo. Investigations are discussed in chronological order in Sections III through V below.

II. Release Information

Potential release mechanisms include spills to the pavement affecting surface media and shallow soils. Because the source of contamination is not known, Contaminants of Concern for RA-13 include ETPH, SVOCs, VOCs, metals, and PCBs.

III. Phase II Investigation

Reports: *Phase II Subsurface Investigation,* dated July 14, 1999, prepared by HRP Associates, Inc.

In 1999, HRP conducted subsurface soil investigations throughout the former Howe Furniture property, which included the installation of boring TB-6 and well MW-11 in the vicinity of RA-13. These sampling points were installed for general site evaluation and not specifically to evaluate releases from a suspected source. As such, soil was analyzed for a broad range of potential contaminants. A sample from TB-6 and MW-11 at 0-2 ft below grade was submitted for analysis for VOCs, TPH by EPA Method 418.1, total 8 RCRA metals by mass analysis. Sample results indicated that low levels of total metals were detected, including arsenic, barium, chromium, lead and mercury, at concentrations below the DEC. TPH was detected at 580 ppm in TB-6 and 1,044 ppm in MW-11, which exceed the RDEC of 500 ppm. No VOCs were detected.

A soil vapor survey was also conducted in the vicinity of RA-13. Vapor points 17 through 21 were installed in the area of a catch basin to evaluate the potential for

historical disposal of solvents to the site. Samples were collected from the upper three feet of soil beneath the asphalt pavement and analyzed using an on-site gas chromatograph. No VOCs were indentified at points 17 through 21.

IV. Phase III Investigation

RFI VCA Work Plan and Quality Assurance Program Plan (QAPP), dated February 13, 2002, prepared by HRP Associates, Inc.

Environmental Condition Assessment Form, dated August 2003, prepared by HRP Associates, Inc.

In 2002, HRP conducted additional soil investigations in RA-13 to address data gaps identified in the RFI VCA Work Plan, including evaluation of the source, degree, and extent of petroleum contamination in shallow soils. In November 2002, HRP installed 13 additional soil borings (TB-19 through TB-36) in RA-13. Borings penetrated to depths up to 5 feet below grade. Soil samples were collected from each boring (19 total samples) from various depths (0-2 ft to 3-5 ft) and were submitted for laboratory analysis for ETPH by the Connecticut ETPH Method. Three samples (TB-24 1-3ft, TB-31 2-4 ft, and TB-34 3-5 ft) were also analyzed for total and SPLP DEP 15 metals, VOCs, SVOCs, PCBs, and total organic carbon (TOC). All laboratory data was independently Tier II validated to ensure data usability.

Results of Soil Analysis

ETPH: ETPH was detected at concentrations ranging from 3 to 160 ppm in 13 of the soil samples tested. ETPH was not detected in samples TB-20, TB-23, TB-25, TB-26, TB-30, and TB-31. All detections were below applicable RSR criteria.

Metals: Various metals, including arsenic, barium, chromium, lead, and mercury were detected by mass analysis in soil at concentrations below RSR standards. Arsenic, barium, chromium, lead, and vanadium were detected by SPLP method at concentrations below the GB PMC.

VOCs: Acetone was detected at concentrations ranging from 36 to 300 ppb in each of the three samples analyzed for VOCs. Toluene was detected in samples TB-31 (0-2 ft) and TB-34 (3-5 ft) at 0.4 ppb and 1,300 ppb, respectively. 2-butanone was detected in sample TB-24 (1-3 ft). Low levels of 2-butanone, xylenes, ethylbenzene, chloroethane, trichloroethylene, cis-1,2-dichloroethylene, 1,1-dichloroethylene, and 1,1-dichloroethane were also detected in sample TB-34 (3-5 ft) at concentrations below applicable RSR criteria.

SVOCs: Low levels of PAHs were detected in sample TB-31 (2-4 ft) at concentrations below RSR criteria.

PCBs: Arochlor was detected at 43 ppb in sample TB-31 (2-4 ft) by mass analysis, which is below the DEC. No SPLP PCBs were detected.

V. Groundwater Investigation

Monitoring well MW-2 was installed inside the building adjacent to RA-13 and MW-11 was installed within the footprint of RA-13 to evaluate groundwater quality in 1999. Well MW-2 was sampled 11 times from 1999 to 2009. MW-11 was paved over and was only sampled once in 1999. Trace concentrations of metals, TCA, TCE and related breakdown products, Freon 113, and ETPH were detected in groundwater in these wells. The noted contaminants are not specifically contaminants of concern for this release area, and thus are likely attributable to site-wide degradation of groundwater quality and not a specific release from RA-13. A discussion of groundwater monitoring can be found in Section 4.0 of the *Capstone Phase III Investigation Report.*

VI. Current Status

The degree and extent of the release of petroleum to shallow soils in RA-13 has been characterized by the collection and analysis of over 20 soil samples. A limited release of petroleum was identified in 2 shallow soil samples in 1999 that exceeded RSR criteria. It is likely that the 1999 soil samples represent worst-case samples that may have been caused by asphalt particles in the shallow soil samples collected immediately below asphalt pavement. Additional soil investigations conducted in 2002 did not confirm elevated ETPH in soils in this area above RSR criteria. No known source of petroleum contamination to soils has been identified.

It is anticipated that an Environmental Land Use Restriction (ELUR) will restrict the site to industrial/commercial use, and will render soils under the site building inaccessible and environmentally isolated. Because the site will be limited to industrial and commercial uses only, the RDEC will no longer apply to site soils and previous ETPH detections that exceeded the Res DEC will be in compliance.

RA-13
Soil Sampling Results

AOC		RDEC	I/C DEC	GB PMC	RA-13	RA-13	RA-13	RA-13	RA-13	RA-13	RA-13	RA-13	RA-13	RA-13	RA-13	RA-13
SAMP_ID					TB-19(0-2)	TB-20(2-3.5)	TB-21(2-3)	TB-22(0-2)	TB-23(2-4.5)	TB-24(1-3)	TB24(3-5)	(Dup. of TB-24 (3-5))	TB-25(1-3)	TB-26(3-5)	TB-27(0-2)	TB-28(1-3)
SAMP_DATE					11-04-02	11-04-02	11-04-02	11-05-02	11-05-02	11-18-02	11-05-02	11-05-02	11-05-02	11-05-02	11-05-02	11-05-02
ANALYTE	Units															
Extractable Total Petroleum Hydrocarbons	MG/KG	500	2500	2500	45	ND<3	4	5	ND<3	5	6	4	ND<3	ND<3	46	3
TPH - 418.1	MG/KG	500	2500	2500												
Metals by Mass Analysis																
Arsenic	MG/KG	10	10	NE						3.9						
Barium	MG/KG	4700	140000	NE						134						
Chromium	MG/KG	100	100	NE						25.7						
Lead	MG/KG	400	1000	NE						9.1						
Mercury	MG/KG	20	610	NE						.019						
SPLP Arsenic	UG/L									ND<3						
Barium	UG/L	NE	NE	10000						1280						
Chromium	UG/L	NE	NE	500						ND<3						
Lead	UG/L	NE	NE	150						14.4						
Vanadium	UG/L	NE	NE	500						24.8						
PCBs																
Aroclor-1254	UG/KG	1000	10000	5						ND<38						
VOCs																
1,1-Dichloroethane	UG/KG	500000	1000000	14000						ND<4						
1,1-Dichloroethene	UG/KG	1000	9500	1400						ND<4						
2-Butanone	UG/KG	500000	1000000	80000						17						
4-Methyl-2-pentanone	UG/KG	NE	NE	NE						ND<4						
Acetone	UG/KG	500000	1000000	140000						300						
Chloroethane	UG/KG	NE	NE	NE						ND<4						
cis-1,2-Dichloroethene	UG/KG	500000	1000000	14000						ND<4						
Ethylbenzene	UG/KG	500000	1000000	10100						ND<4						
m,p-Xylene	UG/KG	500000	1000000	19500						ND<4						
o-Xylene	UG/KG	500000	1000000	19500						ND<4						
Toluene	UG/KG	500000	1000000	67000						ND<4						
Trichloroethene	UG/KG	56000	520000	1000						ND<4						
Xylene(Total)	UG/KG	500000	1000000	19500						ND<4						
SVOCs																
4-Methylphenol	UG/KG	340000	2500000	7000						ND<380						
Benzo(b)fluoranthene	UG/KG	1000	7800	1000						ND<380						
bis(2-Ethylhexyl)phthalate	UG/KG	44000	410000	11000						ND<380						
Chrysene	UG/KG	84000	780000	1000						ND<380						
Di-n-butylphthalate	UG/KG	1000000	2500000	140000						ND<380						
Fluoranthene	UG/KG	1000000	2500000	56000						ND<380						
Pyrene	UG/KG	1000000	2500000	40000						ND<380						
TOC	MG/KG	NE	NE	NE						5730						

Qualifiers/Abbreviations

Bold Values Exceed Standards

Blank = not analyzed

Res DEC = CT DEP Remediation Standard Regulation numerical Residential Direct Exposure Criteria

I/C DEC = CT DEP Remediation Standard Regulation Industrial/Commercial numerical Direct Exposure Criteria

GB PMC = CT DEP Remediation Standard Regulation numerical Pollutant Mobility Criteria

ug/kg = microgram per kilogram

mg/kg = milligram per kilogram

mg/L = milligram per liter

RA-13
Soil Sampling Results

AOC		RDEC	I/C DEC	GB PMC	RA-13	RA-13	RA-13	RA-13	RA-13	RA-13	RA-13	RA-13	RA-13	RA-13	RA-13
SAMP_ID					TB-29(0-2)	TB-30(1-3)	TB-31(2-4)	TB-32(1-3)	TB-33(3-5)	TB-34-(3-5)	TB-34(3-5)DL	TB-35(2-4)	TB-36(0-2)	TB-6	MW-11
SAMP_DATE					11-05-02	11-05-02	11-19-02	11-05-02	11-05-02	11-05-02	11-05-02	11-05-02	11-05-02	1999	1999
ANALYTE	Units													(0-2)	(0-2)
Extractable Total Petroleum Hydrocarbons	MG/KG	500	2500	2500	36	ND<3	ND<2	20	11	7		5	160		
TPH - 418.1	MG/KG	500	2500	2500										580	1044
Metals by Mass Analysis															
Arsenic	MG/KG	10	10	NE			4.1			4.7				2.8	1.9
Barium	MG/KG	4700	140000	NE			150			197				84	87
Chromium	MG/KG	100	100	NE			30.1			33.9				18.2	18
Lead	MG/KG	400	1000	NE			11.7			10.1				7.5	6.9
Mercury	MG/KG	20	610	NE			.021			.026				0.06	0.11
SPLP Arsenic	UG/L						ND<3			3.4					
Barium	UG/L	NE	NE	10000			ND<37.8			150					
Chromium	UG/L	NE	NE	500			ND<3			5.2					
Lead	UG/L	NE	NE	150			ND<1.1			ND<8					
Vanadium	UG/L	NE	NE	500			ND<3			8					
PCBs															
Aroclor-1254	UG/KG	1000	10000	5			43			ND<39					
VOCs															
1,1-Dichloroethane	UG/KG	500000	1000000	14000			ND<2				170				
1,1-Dichloroethene	UG/KG	1000	9500	1400			ND<2			34					
2-Butanone	UG/KG	500000	1000000	80000			ND<2			120					
4-Methyl-2-pentanone	UG/KG	NE	NE	NE			ND<2			15					
Acetone	UG/KG	500000	1000000	140000			36				130				
Chloroethane	UG/KG	NE	NE	NE			ND<2			4					
cis-1,2-Dichloroethene	UG/KG	500000	1000000	14000			ND<2			6					
Ethylbenzene	UG/KG	500000	1000000	10100			ND<2			3					
m,p-Xylene	UG/KG	500000	1000000	19500			ND<2			12					
o-Xylene	UG/KG	500000	1000000	19500			ND<2			4					
Toluene	UG/KG	500000	1000000	67000			0.4				1300				
Trichloroethene	UG/KG	56000	520000	1000			ND<2			2					
Xylene(Total)	UG/KG	500000	1000000	19500			ND<2			16					
SVOCs															
4-Methylphenol	UG/KG	340000	2500000	7000			ND<340			180					
Benzo(b)fluoranthene	UG/KG	1000	7800	1000			43			ND<390					
bis(2-Ethylhexyl)phthalate	UG/KG	44000	410000	11000			47			ND<390					
Chrysene	UG/KG	84000	780000	1000			36			ND<390					
Di-n-butylphthalate	UG/KG	1000000	2500000	140000			58			ND<390					
Fluoranthene	UG/KG	1000000	2500000	56000			42			ND<390					
Pyrene	UG/KG	1000000	2500000	40000			42			ND<390					
TOC	MG/KG	NE	NE	NE			2220			997					

Qualifiers/Abbreviations

Bold Values Exceed Standards

Blank = not analyzed

Res DEC = CT DEP Remediation Standard Regulation numerical Residential Direct Expo

I/C DEC = CT DEP Remediation Standard Regulation Industrial/Commercial numerical Di

GB PMC = CT DEP Remediation Standard Regulation numerical Pollutant Mobility Criteria

ug/kg = microgram per kilogram

mg/kg = milligram per kilogram

mg/L = milligram per liter

APPENDIX B

SLERA

Exponent®

Screening-Level Ecological Risk Assessment: Former Howe Furniture Facility, Norwalk, Connecticut

Screening-Level Ecological Risk Assessment: Former Howe Furniture Facility, Norwalk, Connecticut

Prepared for

HRP Associates, Inc.
197 Scott Swamp Road
Farmington, CT 06032

Prepared by

Exponent
3 Clock Tower Place, Suite 205
Maynard, MA 01754

July 2009

© Exponent, Inc.

Doc. no. 0902210.000 02F1 0709 AM01

Contents

		Page
List of Figures		**iv**
List of Tables		**iv**
Acronyms and Abbreviations		**v**
1	**Introduction**	**1**
2	**Problem Formulation for Screening-Level Ecological Risk Assessment**	**2**
2.1	Site Description	2
2.2	Conceptual Model	2
2.2.1	Potentially Exposed Receptors	2
2.2.2	Potential Ecological Exposure Pathways	2
3	**Chemical Screening**	**4**
3.1	General Method	4
3.2	Benchmarks	5
4	**Exposure Concentrations**	**6**
5	**Results of the Screening-Level Assessment**	**7**
5.1	Groundwater Impacts to Surface Water	7
5.2	Sediment	8
6	**Conclusions and Recommendations**	**9**
6.1	Sediment	9
6.2	Surface Water	9
6.2.1	Metals	9
6.2.2	VOCs	11
6.2.3	TPH	11
6.3	Conclusion	11
7	**References**	**11**

Figures
Tables
Appendix A Groundwater Data for MW-17 and MW-20
Appendix B Sediment Data for DG and RO

List of Figures

Figure 1. Map of Former Howe Furniture facility with area of screening-level ecological risk assessment highlighted

Figure 2. Boron concentration generally increases with increasing specific conductance; higher specific conductance is indicative of salt water intrusion

List of Tables

Table 1. Compounds analyzed in groundwater samples from the former Howe Furniture Facility

Table 2. Compounds retained as chemicals of potential concern for impacts to surface-water quality from groundwater

Acronyms and Abbreviations

AVOC	aromatic volatile organic compound
COPC	chemical of potential concern
EPA	U.S. Environmental Protection Agency
ERA	ecological risk assessment
ESB	Equilibrium Partitioning Sediment Benchmark
ETPH	extractable total petroleum hydrocarbons
HVOC	halogenated volatile organic compound
NVOC	non-volatile organic compound
ORNL	Oak Ridge National Laboratory
RSR	Remediation Standard Regulations (Connecticut)
SPLP	synthetic precipitation leaching procedure
SWPC	Surface Water Protection Criteria
THC	total hydrocarbon
TPH	total petroleum hydrocarbons
VOC	volatile organic compound

1 Introduction

This screening-level ecological risk assessment (ERA) provides a conservative estimate of the potential for risk in the wetland environment of the former Howe Furniture facility in Norwalk, Connecticut (the Site). The Site abuts a saltwater marsh on the western boundary of the property (Figure 1). Because the property is paved and cannot support other ecological systems, this screening-level ecological risk assessment addresses only potential risk to the wetland ecology.

The objectives of the screening-level ecological risk assessment were to identify:

- Aspects of the site that require either remediation or additional assessment activities because they pose credible potential risks
- Aspects of the site that do not pose a potential risk and can be eliminated from further assessment.

This screening-level ecological risk assessment generally followed U.S. Environmental Protection Agency (EPA) guidance (U.S. EPA 1997) and Oak Ridge National Laboratory guidance for screening-level ecological risk assessments (Suter 1995).

These purposes are consistent with Suter's (1995) definition, which states that a screening-level assessment can potentially allow the risk assessment to eliminate:

- Particular chemicals or classes of chemicals as chemicals of potential concern (COPCs),
- Particular media as sources of contaminant exposure,
- Particular ecological receptors as assessment endpoints, or
- Ecological risks as a consideration.

2 Problem Formulation for Screening-Level Ecological Risk Assessment

The problem formulation defines the scope of the assessment. It includes a site description and a conceptual model which identifies contaminant sources, media, routes of exposure, and receptors.

2.1 Site Description

The Site is located on the west side of Woodward Avenue in Norwalk, Connecticut. It contains several industrial buildings, paved driveways, and parking lots. At the west end of the property is a large tidal wetland area.

The eastern limit of the wetland includes a variety of debris (cobbles, wood, metal, glass, and plastic) which supports a 60- 70-ft-wide dense stand of common reed. Beyond this zone is a large saltmarsh community supporting several species of marsh grass with linear interconnecting ditches. Off site to the south, the ditches drain to a tidal creek that drains to Village Creek and Long Island Sound to the south. The saltmarsh is bordered to the east, north, and west by industrial land uses and extends far off site to the south, where it eventually drains into Village Creek (Connecticut Ecosystems 2003).

2.2 Conceptual Model

2.2.1 Potentially Exposed Receptors

Potentially exposed aquatic receptors include benthic invertebrates in wetland sediments, fish, wetland plants, wetland invertebrates, amphibians, piscivorous birds, and semi-aquatic mammals such as mink or beaver.

2.2.2 Potential Ecological Exposure Pathways

2.2.2.1 Pathway 1

Free product or contaminants dissolved in groundwater may discharge into the wetland and partition to wetland sediments, with wetland invertebrates and wetland plants as the receptors.

2.2.2.2 Pathway 2

Free product or contaminants dissolved in groundwater may also discharge directly into the tidal waters and partition to sediments and surface water, potentially affecting aquatic benthic invertebrates. Other potential receptors along this pathway include fish, amphibians,

piscivorous birds, and semi-aquatic mammals, all of which may take up contaminants from sediments, water, and the food chain.

2.2.2.3 Pathway 3

Contaminated stormwater runoff may reach the wetland and/or the stream and affect organisms in these habitats.

3 Chemical Screening

The screening-level assessment compares contaminant concentrations in various media to available media-specific screening criteria to refine the conceptual model and help identify data gaps and areas for additional study. Screening-level criteria are not available for all of the potential exposures. We based our screening on:

- Aquatic organisms and fish exposed to contaminants in surface water and associated wetlands
- Benthic organisms exposed to contaminants in sediment and associated wetlands.

3.1 General Method

The screening criteria generally followed Suter (1995). We modified this five-step process as indicated below to derive the protocol.

- Step 1: If the chemical was not detected and the analytical method is acceptable, then the chemical can be excluded from further assessment.
- Step 2: If the wastes deposited at the site are well specified, chemicals that are not constituents of the waste can be excluded. (This criterion does not apply specifically to the Norwalk site, because the wastes deposited there are not well specified.)
- Step 3: If the concentration is not greater than background concentrations, the chemical can be excluded. (We did not have background concentrations available to compare for the Site.)
- Step 4: If the presence of chemicals in significant amounts can be excluded based on physical/chemical principles, those chemicals will be excluded. (We did not apply this criterion to the Norwalk site for the screening-level ecological risk assessment.)
- Step 5: If the chemical concentration is below concentrations that constitute a potential toxicological hazard, the chemical can be excluded. (We used a benchmark approach to decide whether a chemical constituted a potential toxicological hazard.)

3.2 Benchmarks

The benchmarks for screening groundwater for potential ecotoxicity were:

- Surface Water Protection Criteria (Appendix D to Section 22a-133k-3, Connecticut DEP)
- Connecticut Numerical Water Quality Criteria for Chemical Constituents (Connecticut DEP 2002)
- Chronic Ambient Water Quality Criteria (saltwater) (U.S. EPA 2002)
- Narcosis Secondary Chronic Values (SCVs) (Equilibrium Partitioning Sediment Benchmarks [ESBs] (U.S. EPA 2008).

In addition, where the above criteria are not available for a contaminant, we used Secondary Chronic Values for aquatic biota developed by the Oak Ridge National Laboratory (Suter and Tsao 1996).

For sediment, the ecotoxicity screening criteria were:

- The National Oceanic and Atmospheric Administration (NOAA) Effects Range Low (ER-L) for sediments (Long and Morgan 1990)
- Ontario Ministry of the Environment Lowest Effect Levels (1993–1994)
- Sediment Quality Criteria (Ecotox Thresholds, U.S. EPA 1996)
- Sediment Quality Benchmarks (Ecotox Thresholds, U.S. EPA 1996).

In addition, where the above criteria are not available for a contaminant, we used benchmarks based on chronic National Ambient Water Quality Criteria and secondary chronic values for sediment-associated biota (ORNL 1997).

Contaminants that were detected at a frequency of greater than 5% and have no screening criteria were retained as COPCs.

4 Exposure Concentrations

Data from two monitoring wells on the Site adjacent to the wetlands were used to characterize the groundwater plume that could potentially affect the wetlands (Appendix A). Two sediment samples provided exposure concentrations in the wetlands adjacent to the Site.

Consistent with the guidelines for conducting a screening-level evaluation (U.S. EPA 1997), we used the maximum concentration detected as the exposure concentration to screen contaminants. Table 1 lists all analytes from the groundwater analysis, along with the maximum concentration detected and any applicable water quality criteria.

5 Results of the Screening-Level Assessment

5.1 Groundwater Impacts to Surface Water

Section 22a-133k-3 (b)(2) of the Connecticut Regulation of the Department of Environmental Protection requires that, if a groundwater plume discharges to a wetland, each substance therein shall be remediated to a concentration equal to or less than the applicable aquatic life criterion in Appendix D (Surface Water Protection Criteria for Substances in Ground Water) to the most recent Water Quality Standards. The criteria are termed the Surface Water Protection Criteria (SWPC). Section 22a-133k-3 (f) (2) states that compliance with an SWPC for a substance in groundwater is achieved when (A) the sampling locations are representative of the subject groundwater plume, and (B) the concentration of such substance in that portion of such plume that is immediately upgradient of the point at which such groundwater discharges to the receiving surface-water body is equal to or less than the applicable SWPC, provided that the areal extent of such groundwater plume is not increasing over time and that, except for seasonal variations, the concentration of the subject substance in such groundwater plume is not increasing, except as a result of natural attenuation, at any point over time.

Based on the regulations of the State of Connecticut, we used data from monitoring wells MW-17 and MW-20 to characterize the portion of the groundwater plume that is immediately upgradient of the point where groundwater discharges to the surface-water body.

Six compounds (or classes of compounds) were retained as COPCs in surface water (Table 2), including the metals arsenic, barium, boron, and manganese; the volatile organic compound (VOC) cis-1,2-dichloroethylene; and extractable total petroleum hydrocarbons (ETPH). All but arsenic were retained as COPCs because they were detected in the groundwater, but there are no benchmarks to evaluate their potential toxicity.

Arsenic was retained as a COPC, because it was detected in six of the eight quarterly groundwater samples with a maximum concentration of 4.2 µg/L, which is only slightly above the Surface Water Protection Criterion of 4 µg/L. This concentration of arsenic was detected in one sample at MW-20 on January 23, 2007. All other concentrations were below the SWPC throughout the four quarterly sampling events at these two monitoring wells, including those taken after January 23, 2007.

The metals barium, boron, and manganese were detected in all groundwater samples. The analyses were performed on whole fractions of groundwater.

The compound cis-1,2-dichloroethylene was detected in three of eight groundwater samples during the quarterly sampling. ETPH was detected on only one occasion (April 3, 2007) from MW-20, at a concentration of 6.83 mg/L.

5.2 Sediment

Data from two sediment samples were provided for this screening-level ERA (Appendix B). The samples were analyzed for halogenated volatile organic compounds (HVOCs), aromatic volatile organic compounds (AVOCs), non-volatile organic compounds (NVOCs), acetone, total petroleum hydrocarbons (TPH), phenols, and formaldehyde. Metal analysis was conducted by synthetic precipitation leaching procedure (SPLP), which does not provide data that are applicable for use in this screening-level ERA.

From the data available, TPH was retained as a COPC, because it was detected at concentrations of 26 ppm and 47 ppm for sites DG and RO, respectively, but there are no sediment benchmarks to evaluate its toxicity.

6 Conclusions and Recommendations

6.1 Sediment

Data from two sediment samples that were analyzed for VOCs and SVOCs indicate that none of these chemicals were detected above the detection limits, which are below the published Connecticut Remediation Standard Regulations (RSRs) for soil, and do not pose a threat to ecological receptors in the wetlands. The metals data from these two samples are from leachate analyses and are not useful for screening ecological risk. This represents a data gap, since the potential ecological risk associated with metals in sediment cannot be directly evaluated.

TPH was detected in the wetland sediments adjacent to the Site by laboratory method 418.1. Method 418.1 is comparable to modified EPA method 8015, though method 418.1 is not limited in its carbon range and can detect heavier hydrocarbons than modified method 8015 (Weisman 1998). This can result in higher reported TPH concentrations than modified method 8015. The concentrations found at sites RO and DG were 47 mg/kg and 26 mg/kg, respectively. An analysis of sediments from eleven urban waterways, including four in New England, with nonpoint-source background concentrations of TPH reports a median total hydrocarbon (THC) concentration of 244 mg/kg (determined by modified EPA method 8015), with approximately one-third of the sediments having THC concentrations below 100 mg/kg (Stout et al. 2004). Because the method used to analyze the sediments from the Site is comparable to EPA method 8015—used to analyze urban background concentrations of TPH in sediments—the concentrations of TPH detected in the wetlands adjacent to the former Howe Furniture facility likely reflect an urban background concentration and are not the result of specific activity at the Site.

6.2 Surface Water

The groundwater discharging to the wetlands adjacent to the former Howe Furniture facility contains some compounds that were identified as COPCs. These are discussed below.

6.2.1 Metals

Arsenic is widely distributed in the earth's crust, but the largest release of arsenic to the environment is from anthropogenic sources such as nonferrous metal mining and smelting, pesticide application, coal combustion, wood combustion, and waste incineration (ATSDR 2007a). Arsenic has been shown to be acutely toxic to fish and invertebrates, although the toxicity can vary widely, even among taxonomically related species, and is highly influenced by temperature, pH, and speciation, among others; sublethal effects have also been observed in aquatic species (Long and Morgan 1990). The maximum concentration of arsenic recorded at the groundwater monitoring wells during the four quarterly sampling periods was only slightly above the surface-water protection criterion in one sample at the beginning of the quarterly

sampling. Subsequent samples had arsenic concentrations below 4 µg/L, indicating that the arsenic concentration is not increasing over time..

Barium is a naturally occurring mineral, and anthropogenic releases are primarily associated with industrial processes (ATSDR 2007b). Toxicological data from the EPA ECOTOX database (U.S. EPA 2009) indicate that an EC50 or LC50 for barium exposure to diatoms, opossum shrimp (U.S. EPA 1978), and sheepshead minnows (Heitmuller et al. 1981) occurs at concentrations greater than 500,000 µg/L in saltwater. The highest concentration in groundwater at the former Howe Furniture Facility adjacent to the wetlands was 356 µg/L, which is unlikely to cause an adverse ecological consequence in the wetlands based on the available species data.

Boron is a common element found in the earth's crust, and an essential element for plants. Borates are primarily used to produce glass but are also found in fire retardants, cosmetics, some wood preservatives, soaps, cleaners, fuel additives, and lubricants (ATSDR 2007c). The only available LC50 data in the EPA ECOTOX database (U.S. EPA 2009) for exposure to boron in seawater was a study of juvenile opossum shrimp, with the lowest LC50 value occurring at three-day exposures (LC50: 79,790 µg/L) (Marcussen and Yurk 1990). The maximum groundwater concentration at the former Howe Furniture Facility adjacent to the wetlands was 2,090 µg/L. Analysis of the specific conductance measured at monitoring wells MW-17 and MW-20 indicates that the groundwater in these wells is subject to saltwater intrusion (15,400 and 29,100 µS/cm, respectively). Specific conductance in fresh water ranges from 0 to 1,300 µS/cm, specific conductance in brackish water ranges from 1,301 to 28,800 µS/cm, and specific conductance in saltwater is greater than 28,800 µS/cm (Russell and Kane 1993). Boron is a significant constituent in seawater (Mance et al. 1988), and concentrations range from 3,700 to 4,300 µg/L in Canadian coastal waters (Moss and Nagpal 2003). Analysis of all groundwater data from the Site indicates that boron concentrations generally increase with increasing specific conductance (Figure 2). MW-20, the closest well to the wetland boundary, has the highest boron concentration and the highest specific conductance. Therefore, the concentrations of boron in MW-17 and MW-20 are likely due to saltwater intrusion into the groundwater and do not reflect contamination originating at the Site.

Manganese is found throughout the environment; it is released both naturally and through anthropogenic activities (ATSDR 2008). Approximately 80% of the industrial emissions of manganese are attributable to iron and steel production facilities, with power plants and coke ovens contributing most of the remaining emissions (U.S. EPA 2003). The maximum concentration seen at the former Howe Furniture facility (1,650 µg/L) is within the range, but on the high end of concentrations detected in urban groundwater (99th percentile; 5,600 µg/L) (U.S. EPA 2003). Seawater generally has low concentrations of manganese, typically about 2 µg/L (Nagpal 2001), and is not the likely source of manganese in the groundwater of the Site. The lowest LC50 values for manganese chloride reported in the ECOTOX database (U.S. EPA 2009) were 51,800 µg/L for brine shrimp (Gajbhiye and Hirota 1990) and 70,000 µg/L for a copepod species (Bengtsson 1978). A lowest-observed-effect concentration (LOEC) for manganese chloride of 5,000 µg/L was reported for the Norway lobster (Oweson et al. 2006), and the lowest LT50 value for manganese chloride exposure to a sea star species was reported at 50,000 µg/L (Hansen and Bjerregaard 1995). The highest concentration reported in MW-17 and

MW-20 is much lower than these values, and manganese does not present a risk to the wetland ecosystem.

6.2.2 VOCs

One VOC, cis-1,2-dichloroethylene, was detected in groundwater from the monitoring wells adjacent to the wetlands. This VOC is used as a solvent for waxes, resins, and acetylcellulose; for extraction of rubber; and as a refrigerant, among other uses (U.S. EPA 2006). It can be released to the environment through air emissions and from wastewater during its production and use. When released into soil, cis-1,2-dichloroethylene leaches into groundwater, where it undergoes biodegradation very slowly (U.S. EPA 2006). In anaerobic conditions, cis-1,2-dichloroethylene is formed as a breakdown product of trichloroethylene, tetrachloroethylene, and 1,1,2,2-tetrachloroethane (U.S. EPA 2006). The available body of data in the literature is insufficient to evaluate the toxicity of this compound to wetland biota.

6.2.3 TPH

TPH was identified in one groundwater sample, but there are no available toxicity criteria for TPH.

6.3 Conclusion

The data analyzed for this screening-level ecological risk assessment indicate little to no potential for risk to wetland receptors from metals, VOCs, SVOCs, and TPH in groundwater and from VOCs, SVOCs, and TPH in sediment. Available data for metals in sediment (i.e., leachate tests) do not provide information that is useful for an ecological risk assessment. Although the potential for ecological risk from metals in sediment cannot be directly evaluated, recently reported levels in groundwater suggest that transport from groundwater to sediment is not currently a significant pathway.

7 References

ATSDR. 2007a. Toxicological profile for arsenic (Draft for Public Comment). U.S. Department of Health and Human Services, Public Health Service, Atlanta, GA.

ATSDR. 2007b. Toxicological profile for barium (Draft for Public Comment). U.S. Department of Health and Human Services, Public Health Service, Atlanta, GA.

ATSDR. 2007c. Toxicological profile for boron (Draft for Public Comment). U.S. Department of Health and Human Services, Public Health Service, Atlanta, GA.

ATSDR. 2008. Toxicological profile for manganese (Draft for Public Comment). U.S. Department of Health and Human Services, Public Health Service, Atlanta, GA.

Bengtsson, B.E. 1978. Use of a Harpacticoid Copepod in Toxicity Tests. Mar. Pollut. Bull. 9:238-241.

Connecticut DEP. 2002. Water Quality Standards. State of Connecticut Department of Environmental Protection. Effective Date December 17, 2002.

Connecticut Ecosystems. 2003. Habitat assessment: Former Howe Furniture facility. Norwalk, CT.

Gajbhiye, S.N., and R. Hirota. 1990. Toxicity of heavy metals to brine shrimp artemia. J. Indian Fish. Assoc. 20:43–50.

Hansen, S.N., and P. Bjerregaard. 1995. Manganese kinetics in the sea star Asterias rubens (L.) exposed via food or water. Mar. Pollut. Bull. 31(1-3):127–132.

Heitmuller, P.T., T.A. Hollister, and P.R. Parrish. 1981. Acute toxicity of 54 industrial chemicals to sheepshead minnows (*Cyprinodon variegatus*). Bull. Environ. Contam. Toxicol. 27(5):596–604.

Long, E.R., and L.G. Morgan. 1990. The potential for biological effects of sediment-sorbed contaminants tested in the National Status and Trends Program. National Ocean Service, Rockville, MD.

Mance, G., A.R. O'Donnell, and P.R. Smith. 1988. Proposed environmental quality standards for List II substances in water: Boron. Medmenham, Water Research Centre Report TR 256, ISBN 0-902-15663-2.

Marcussen, C.E., and J.J. Yurk. 1990. Boron: Acute toxicity to mysids (*Mysidopsis bahia*) under flow-through conditions. Lab.Proj.ID No.3903004000-0215-3140. ESE, Gainesville, FL, 44 pp.

Moss, S.A., and N.K. Nagpal. 2003. Ambient water quality guidelines for boron. http://www.llbc.leg.bc.ca/public/PubDocs/bcdocs/365384/boron.pdf. Accessed June 18, 2009.

Nagpal, N.K. 2001. Ambient water quality guidelines for manganese. http://www.env.gov.bc.ca/wat/wq/BCguidelines/manganese/manganese.html. Accessed June 18, 2009.

Oweson, C.A.M., S.P. Baden, and B.E. Hernroth. 2006. Manganese induced apoptosis in haematopoietic cells of Nephrops norvegicus (L.). Aquat. Toxicol. 77(3):322–328.

Russell, G.M., and R.L. Kane. 1993. Bathymetry, freshwater flow, and specific conductance of Matlacha Pass, southwestern Florida. Water-Resources Investigations Report 93-4057. U.S. Geological Survey.

Stout, S.A., A.D. Uhler, and S.D. Emsbo-Mattingly. 2004. Comparative evaluation of background anthropogenic hydrocarbons in surficial sediments from nine urban waterways. Environ. Sci. Technol. 38:2987–2994.

Suter, G.W. 1995. Guide for performing screening ecological risk assessments at DOE facilities. ES/ER/TM-153. U.S. Department of Energy, Environmental Restoration Risk Assessment Program, Oak Ridge National Laboratory.

Suter, G.W, II, and C.L.Tsao. 1996. Toxicological Benchmarks for Screening PotentialContaminants of Concern for Effects on Aquatic Biota: 1996 Revision. Oak Ridge National Laboratory, ES/ER/TM-96/R2, Oak Ridge National Laboratory, Oak Ridge, TN.

U.S. EPA. 1978. In-depth studies on health and environmental impacts of selected water pollutants. Contract No.68-01-4646. U.S. Environmental Protection Agency, Duluth, MN.

U.S. EPA. 1996. Ecotox thresholds, ECO update. U.S. Environmental Protection Agency.

U.S. EPA. 1997. Ecological risk assessment guidance for Superfund: Process for designing and conducting ecological risk assessments, Interim final. U.S. Environmental Protection Agency, Environmental Response Team, Edison, NJ.

U.S. EPA. 2003. Health effects support document for manganese. EPA822R03003. U.S. Environmental Protection Agency. Available at: http://www.epa.gov/safewater/ccl/pdfs/reg_determine1/support_cc1_magnese_healtheffects.pdf. Accessed June 16, 2009.

U.S. EPA. 2006. National primary drinking water regulations. EPA 600/4-88-039. U.S. Environmental Protection Agency. Available at: http://www.epa.gov/SAFEWATER/dwh/t-voc/12-dich2.html. Accessed June 18, 2009.

U.S. EPA. 2008. Procedures for the derivation of equilibrium partitioning sediment benchmarks (ESBs) for the protection of benthic organisms: Compendium of Tier 2 values for nonionic organics. EPA-600-R-02-016. U.S. Environmental Protection Agency, Office of Research and Development, Washington, DC.

U.S. EPA. 2002. 2002 National Recommended Water Quality Criteria: 2002 table (EPA-822-R-02-047). U.S. Environmental Protection Agency, Washington, DC.

U.S. EPA. 2009. EPA ECOTOX database. U.S. Environmental Protection Agency, Office of Research and Development, Washington, DC. Available at: http://cfpub.epa.gov/ecotox. Accessed June 16, 2009.

Weisman, W. 1998. Analysis of petroleum hydrocarbons in environmental media, Vol. 1. Total Petroleum Hydrocarbon Criteria Working Group Series. Amherst Scientific Publishers, Amherst, MA.

Figures

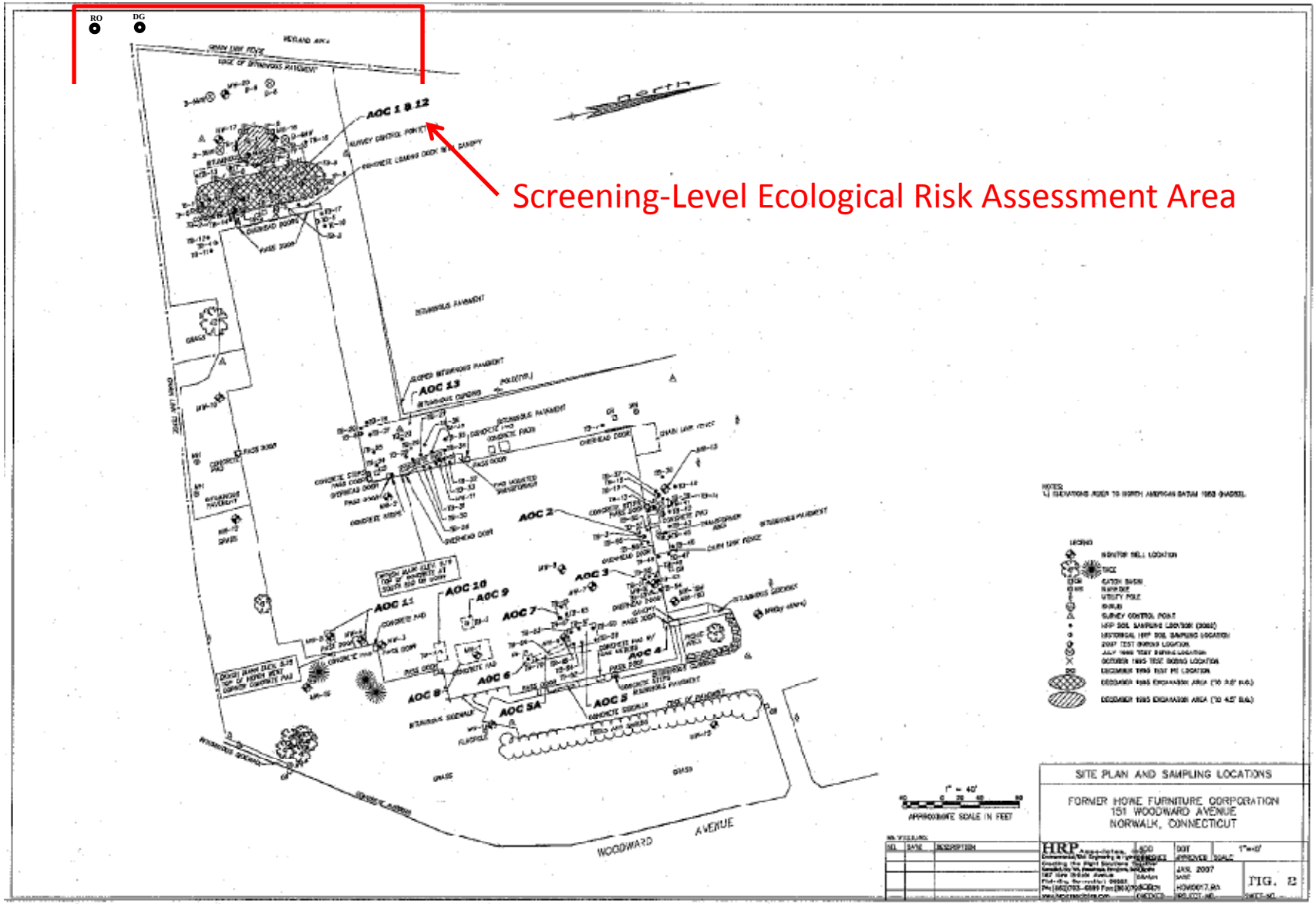
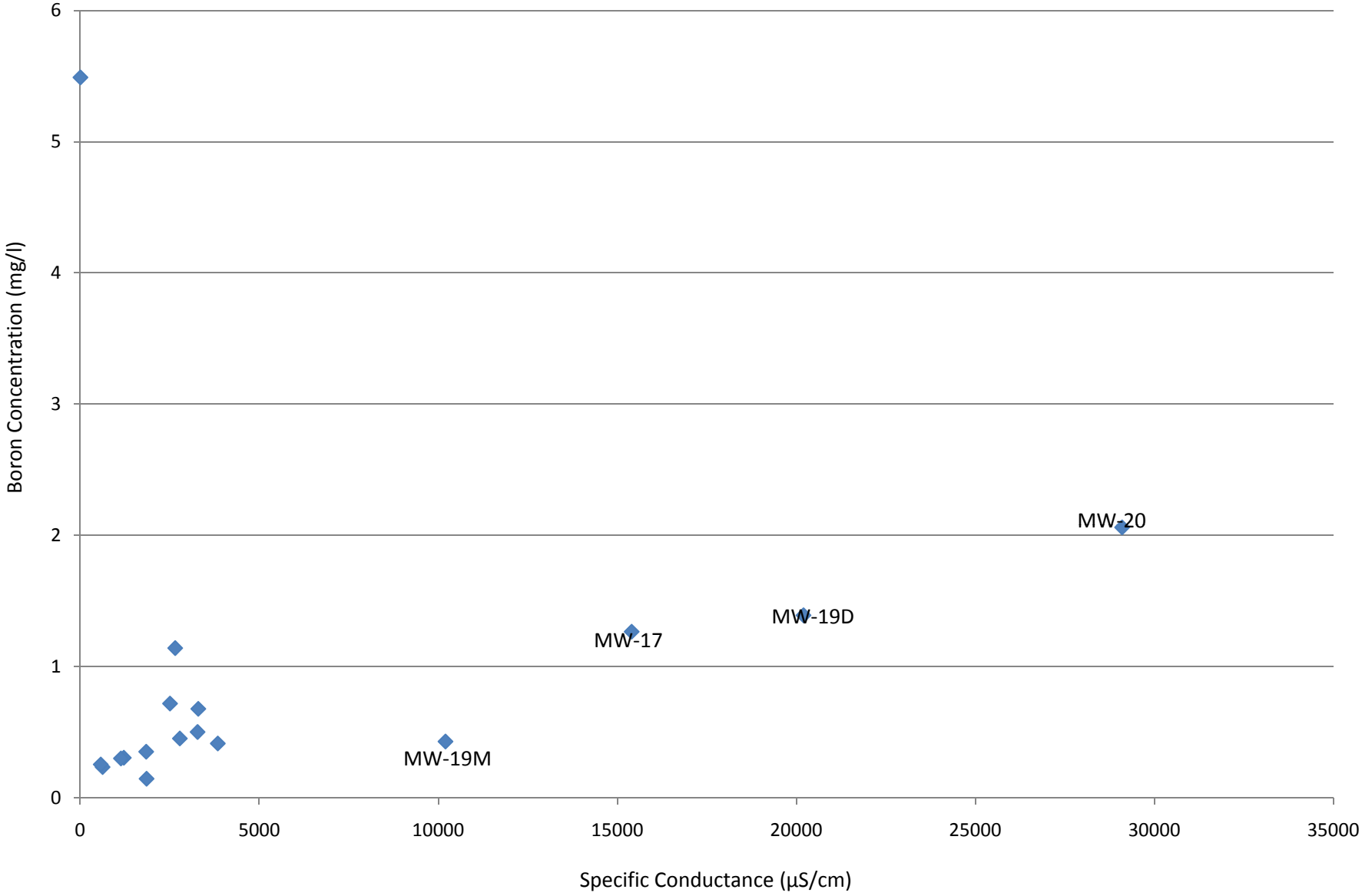


Figure 1. Map of the Former Howe Furniture Facility with screening-level ecological risk assessment area highlighted

Figure 2. Boron concentration generally increases with increasing specific conductance. Higher specific conductance is indicative of saltwater intrusion.



Tables

Table 1. Compounds analyzed in groundwater samples from the former Howe Furniture Facility[a]

Analyte	CAS	Maximum Groundwater Concentration (ug/L)	Ecological Surface-Water Screening Level (ug/L)	Source of Ecological Surface-Water Screening Level	COPC?
Arsenic	7440-38-2	4.2	4	SWPC	Yes
Barium	7440-39-3	356	NA		Yes
Boron	7440-42-8	2,090	NA		Yes
Cadmium	7440-43-9	1.1	6	SWPC	No
Chromium, Total	7440-47-3	ND	110[b]	SWPC	No
Copper	7440-50-8	6.2	48	SWPC	No
Lead	7439-92-1	ND	13	SWPC	No
Manganese	7439-96-5	1,650	NA		Yes
Mercury	7439-97-6	ND	0.4	SWPC	No
Nickel	7440-02-0	ND	880	SWPC	No
Zinc	7440-66-6	38	123	SWPC	No
Acenaphthylene	208-96-8	ND	0.3	SWPC	No
Benzo(a)anthracene	56-55-3	ND	0.3	SWPC	No
Benzo(a)pyrene	50-32-8	ND	0.3	SWPC	No
Benzo(b)fluoranthene	205-99-2	ND	0.3	SWPC	No
Benzo(k)fluoranthene	207-08-9	ND	0.3	SWPC	No
Hexachlorobenzene	118-74-1	ND	0.077	SWPC	No
Phenanthrene	85-01-8	ND	0.077	SWPC	No
Bis(2-ethylhexyl)phthalate	117-81-7	ND	59	SWPC	No
1,1,1,2-Tetrachloroethane	630-20-6	ND	NA		No
1,1,1-Trichloroethane	71-55-6	ND	62,000	SWPC	No
1,1,2-Trichloroethane	79-00-5	ND	1260	SWPC	No
1,1,2,2-Tetrachloroethane	79-34-5	ND	110	SWPC	No
1,1,2-Trichlorotrifluoroethane (freor	76-13-1	ND	2400	Narcosis SCV	No
1,1-Dichloroethane	75-34-3	ND	3700	Narcosis SCV	No
1,1-Dichloroethylene	75-35-4	ND	96	SWPC	No
1,2-Dibromoethane (EDB)	106-93-4	ND	NA		No
1,4-Dioxane	123-91-1	ND	NA		No
Acetone	67-64-1	ND	NA		No
Bromodichloromethane	75-27-4	ND	NA		No
Bromoform	75-25-2	ND	10800	SWPC	No
Chloroform	67-66-3	ND	14100	SWPC	No
cis-1,2-Dichloroethylene	156-59-2	6.6	NA		Yes
Dibromochloromethane	124-48-1	ND	1020	SWPC	No
Methyltertbutyl ether	1634-04-4	ND	18000	AWQC	No
tert-Butanol	75-65-0	ND	NA		No
Tetrachloroethylene	127-18-4	1.4	88	SWPC	No
Toluene	108-88-3	ND	4000000	SWPC	No
trans-1,2-Dichloroethylene	156-60-5	ND	NA		No
Trichloroethylene	79-01-6	2.5	2340	SWPC	No
Vinyl chloride	75-01-4	ND	15,750	SWPC	No
Aviation Fuel	Aviation Fuel	ND	NA		No
Fuel Oil #2	68476-30-2	ND	NA		No
Fuel Oil #4	68476-31-3	ND	NA		No
Fuel Oil #6	68553-00-4	ND	NA		No
Gasoline	8006-61-9	ND	NA		No
Motor Oil	Motor Oil	ND	NA		No
Extractable Total Petroleum Hydrocarbons	Spectrum CT ETPH	6830	NA		Yes

ND - Not detected

NA - Not available

SWPC - Surface water protection criteria

AWQC - EPA Ambient Water Quality Criteria, 2002

Narcosis SCV - Narcosis Secondary Chronic Values (Equilibrium Sediment Benchmark)

[a] Shaded compounds are chemicals of potential concern based on exceedence of an applicable water quality criterion or the absence of any criteria.

[b] SWPC are given for trivalent chromium and hexavalent chromium; the lowest value, that for hexavalant chromium, is reported here as a conservative criterion.

Table 2. Compounds retained as chemicals of potential concern for impacts to surface-quality from groundwater

Analyte	CAS	Maximum Groundwater Concentration (ug/L)	Ecological Surface-Water Screening Level (ug/L)	Source of Ecological Surface-Water Screening Level	COPC?	Number of Detections
Arsenic	7440-38-2	4.2	4	SWPC	Yes	6 of 8
Barium	7440-39-3	356	NA	--	Yes	8 of 8
Boron	7440-42-8	2,090	NA	--	Yes	8 of 8
Manganese	7439-96-5	1,650	NA	--	Yes	8 of 8
cis-1,2-Dichloroethylene	156-59-2	6.6	NA	--	Yes	3 of 8
Extractable Total Petroleum Hydrocarbons	Spectrum CT ETPH	6,830	NA	--	Yes	1 of 8

Appendix A

Groundwater Data for MW-17 and MW-20

Appendix A. Groundwater data results from MW-17 (averaged from sample and duplicate) and MW-20

Date Collected			MW-17 Average 1/23/2007	MW-20 1/23/2007	MW-17 Average 4/3/2007	MW-20 4/3/2007	MW-17 Average 7/20/2007	MW-20 7/20/2007	MW-17 Average 10/30/2007	MW-20 10/30/2007
Water-Metals	**CAS #**	**Unit**								
Arsenic	7440-38-2	mg/l	<0.0040	0.0042	0.00105	0.0028	0.0017	0.0022	<0.0005	0.0027
Barium	7440-39-3	mg/l	0.09215	0.226	0.04945	0.285	0.05725	0.104	0.1915	0.356
Boron	7440-42-8	mg/l	1.265	2.06	0.925	1.53	1.28	2.09	1.86	2.09
Cadmium	7440-43-9	mg/l	NA	NA	0.0007	0.0011	NA	NA	NA	NA
Chromium, Total	7440-47-3	mg/l	NA	NA	<0.004	<0.004	<0.005	<0.005	<0.005	<0.005
Copper	7440-50-8	mg/l	<0.0050	<0.0050	0.0025	0.0062	<0.005	<0.005	<0.005	<0.005
Lead	7439-92-1	mg/l	<0.0075	<0.0075	<0.0025	<0.0025	<0.0075	<0.0075	NA	NA
Manganese	7439-96-5	mg/l	1.005	1.56	0.605	1.27	0.5725	1.28	1.65	1.52
Mercury	7439-97-6	mg/l	<0.00020	<0.00020	NA	NA	NA	NA	NA	NA
Nickel	7440-02-0	mg/l	<0.0050	<0.0050	NA	NA	<0.005	<0.005	NA	NA
Zinc	7440-66-6	mg/l	<0.0600	<0.0600	0.032	0.038	0.011	0.012	<0.01	<0.01
Water-8270C	**CAS #**	**Unit**								
Acenaphthylene	208-96-8	ug/l	<0.050	<0.050	NA	NA	NA	NA	NA	NA
Benzoaanthracene	56-55-3	ug/l	<0.050	<0.050	NA	NA	NA	NA	NA	NA
Benzoapyrene	50-32-8	ug/l	<0.050	<0.050	NA	NA	NA	NA	NA	NA
Benzobfluoranthene	205-99-2	ug/l	<0.050	<0.050	NA	NA	NA	NA	NA	NA
Benzokfluoranthene	207-08-9	ug/l	<0.050	<0.050	NA	NA	NA	NA	NA	NA
Bis2-ethylhexylphthalate	117-81-7	ug/l	NA	NA	NA	NA	<1	<1	NA	NA
Hexachlorobenzene	118-74-1	ug/l	<1	<1	NA	NA	NA	NA	NA	NA
Phenanthrene	85-01-8	ug/l	<0.050	<0.050	NA	NA	NA	NA	NA	NA
Water-8260B ug/l	**CAS #**	**Unit**								
1,1,1,2-Tetrachloroethane	630-20-6	ug/l	<1.0	<1.0	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	71-55-6	ug/l	<1.0	<1.0	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	79-34-5	ug/l	<0.5	<0.5	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	79-00-5	ug/l	NA	NA	NA	NA	<1	<1	NA	NA
1,1,2-Trichlorotrifluoroethane freon 113	76-13-1	ug/l	<1.0	<1.0	<5	<5	<5	<5	<5	<5
1,1-Dichloroethane	75-34-3	ug/l	<1.0	<1.0	<1	<1	<1	<1	<1	<1
1,1-Dichloroethylene	75-35-4	ug/l	<1.0	<1.0	<1	<1	<1	<1	<1	<1
1,2-Dibromoethane EDB	106-93-4	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<1
1,4-Dioxane	123-91-1	ug/l	<20.0	<20.0	<50	<50	<50	<50	<50	<50
Acetone	67-64-1	ug/l	<20.0	<20.0	NA	NA	<50	<50	<50	<50
Bromodichloromethane	75-27-4	ug/l	<0.5	<0.5	<1	<1	NA	NA	NA	NA
Bromoform	75-25-2	ug/l	NA	NA	NA	NA	<1	<1	NA	NA
Chloroform	67-66-3	ug/l	<1.0	<1.0	<2	<2	NA	NA	NA	NA
Dibromochloromethane	124-48-1	ug/l	NA	NA	<0.5	<0.5	NA	NA	NA	NA
Methyltertbutyl ether	1634-04-4	ug/l	<1.0	<1.0	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	127-18-4	ug/l	<1.0	1.3	NA	NA	NA	NA	<1	1.4
Toluene	108-88-3	ug/l	<1.0	<1.0	NA	NA	NA	NA	NA	NA
Trichloroethylene	79-01-6	ug/l	<1.0	2	<1	<1	<1	<1	<1	2.5
Vinyl chloride	75-01-4	ug/l	<1.0	<1.0	<2	<2	<2	<2	<2	<2
cis-1,2-Dichloroethylene	156-59-2	ug/l	<1.0	4.7	<1	<1	<1	<1	1.25	6.6
tert-Butanol	75-65-0	ug/l	<10.0	<10.0	NA	NA	NA	NA	<30	<30
trans-1,2-Dichloroethylene	156-60-5	ug/l	<1.0	<1.0	<1	<1	<1	<1	<1	<1
Water-Misc	**CAS #**	**Unit**								
Aviation Fuel	Aviation Fuel	mg/l	<0.1	<0.1	NA	NA	NA	NA	NA	NA
Fuel Oil #2	68476-30-2	mg/l	<0.1	<0.1	NA	NA	NA	NA	NA	NA
Fuel Oil #4	68476-31-3	mg/l	<0.1	<0.1	NA	NA	NA	NA	NA	NA
Fuel Oil #6	68553-00-4	mg/l	<0.1	<0.1	NA	NA	NA	NA	NA	NA
Gasoline	8006-61-9	mg/l	<0.1	<0.1	NA	NA	NA	NA	NA	NA
Motor Oil	Motor Oil	mg/l	<0.1	<0.1	NA	NA	NA	NA	NA	NA
Other Oil	Other Oil Spec	mg/l	<0.1	<0.1	NA	NA	NA	NA	NA	NA
C9 - C36 Aliphatic Hydrocarbons	AC9-C36ALIP	mg/l	<0.1	<0.1	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	8012-95-1	mg/l	<0.1	<0.1	NA	NA	NA	NA	NA	NA
CT ETPH	CT ETPH	mg/l	<0.1	<0.1	<0.075	6.83	<0.075	<0.075	<0.075	<0.075
Specific Conductance EC	Specific Condu	uS/cm	15400	29100	NA	NA	NA	NA	NA	NA
Conductivity	conductivit	umhos/cm	NA	NA	>1000	>1000	6137.5	26600	25750	25500
pH	PH	Units	6.61	6.21	6.575	6.39	6.49	5.94	6.5	6.32

NA = Not submitted for analysis
mg/l = milligrams per liter
ug/l = micrograms/liter

Appendix B

Sediment Data for DG and RO

Appendix B. Sediment data results from DG and RO.

Date Collected			DG 8/15/1995	RO 8/15/1995	
SPLP Metals	**CAS #**	**Unit**			
Arsenic	7440-38-2	ppm	BDL	BDL	
Barium	7440-39-3	ppm	BDL		0.5
Cadmium	7440-43-9	ppm	BDL	BDL	
Chromium, Total	7440-47-3	ppm	BDL	BDL	
Lead	7439-92-1	ppm		0.015 BDL	
Mercury	7439-97-6	ppm	BDL	BDL	
Selenium	7782-49-2	ppm	BDL	BDL	
Silver	7440-22-4	ppm	BDL	BDL	
602/8020	**CAS #**	**Unit**			
Benzene	71-43-2	ppb	<25	<25	
Toluene	108-88-3	ppb	<25	<25	
Chlorobenzene	108-90-7	ppb	<25	<25	
Ethylbenzene	100-41-4	ppb	<25	<25	
P & M Xylene	108-38-3, 106-42-3	ppb	<25	<25	
O-Xylene	95-47-6	ppb	<25	<25	
1,4-dichlorobenzene	106-46-7	ppb	<25	<25	
1,3-dichlorobenzene	541-73-1	ppb	<25	<25	
1,2-dichlorobenzene	95-50-1	ppb	<25	<25	
Acetone	67-64-1	ppm	<0.5	<0.5	
Water-8260B ug/l	**CAS #**	**Unit**			
1,1,1-Trichloroethane	71-55-6	ppb	<25	<25	
1,1,2,2-Tetrachloroethane	79-34-5	ppb	<25	<25	
1,1,2-Trichloroethane	79-00-5	ppb	<25	<25	
1,2-Dichloroethane	107-06-2	ppb	<25	<25	
1,1-Dichloroethane	75-34-3	ppb	<25	<25	
1,1-Dichloroethylene	75-35-4	ppb	<25	<25	
1,2-Dichloropropane	78-87-5	ppb	<25	<25	
1,2-Dichlorobenzene	95-50-1	ppb	<25	<25	
1,3-Dichlorobenzene	541-73-1	ppb	<25	<25	
1,4-Dichlorobenzene	106-46-7	ppb	<25	<25	
1-Chlorohexane	544-10-5	ppb	<25	<25	
2-Chloroethyl vinyl ether	110-75-8	ppb	<25	<25	
Benzyl chloride	100-44-7	ppb	<100	<100	
Bis(2-chloroethoxy)methane	111-91-1	ppb	<100	<100	
Bis(2-chloroisopropyl) ether	39638-32-9	ppb	<100	<100	
Bromobenzene	108-86-1	ppb	<25	<25	
Bromodichloromethane	75-27-4	ppb	<25	<25	
Bromoform	75-25-2	ppb	<25	<25	
Bromomethane	74-83-9	ppb	<25	<25	
Carbon tetrachloride	56-23-5	ppb	<25	<25	
Chloroacetaldehyde	107-20-0	ppb	<100	<100	
Chlorobenzene	108-90-7	ppb	<25	<25	
Chloroform	67-66-3	ppb	<25	<25	
Chloroethane	75-00-3	ppb	<25	<25	
Chloromethane	74-87-3	ppb	<25	<25	
Chloromethyl methyl ether	107-30-2	ppb	<100	<100	
Chlorotoluene		ppb	<25	<25	
Dibromomethane	74-95-3	ppb	<25	<25	
Dibromochloromethane	124-48-1	ppb	<25	<25	
Methylene chloride	75-09-2	ppb	<25	<25	
Tetrachloroethylene	127-18-4	ppb	<25	<25	
Trichloroethylene	79-01-6	ppb	<25	<25	
Trichlorofluoromethane	75-69-4	ppb	<25	<25	
Trichloropropane	96-18-4	ppb	<25	<25	
Vinyl chloride	75-01-4	ppb	<25	<25	
cis-1,3-dichloropropylene	10061-01-5	ppb	<25	<25	
trans-1,2-Dichloroethylene	156-60-5	ppb	<25	<25	
trans-1,3-dichloropropylene	10061-02-6	ppb	<25	<25	
8015	**CAS #**	**Unit**			
Methyl ethyl ketone	78-93-3	ppb		100	100
Methyl Isobutyl ketone	108-10-1	ppb		100	100
Acrylamide	79-06-1	ppb		100	100
Carbon disulfide	75-15-0	ppb		100	100
Diethyl ether	60-29-7	ppb		100	100
Paraldehyde	123-63-7	ppb		100	100

BDL- below detection limit
ppb - parts per billion
ppm - parts per million

APPENDIX C

LABORATORY DATA

October 31, 1995

RECEIVED
NOV - 6 1995
HRP ASSOCIATES, INC.

HRP Associates Inc.
167 New Britain Ave
Plainville, CT 06062

Attn: Ms. Pat Terwilliger

Please find attached laboratory report(s) for the samples submitted on :
October 18, 1995

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing and or the test results, please have the following information readily available :

LAB No. : 105-362-16
PO/JOB No. : HOW0011.RC
INVOICE No. : 55221
ORDER No. : 35314
CUSTOMER No.: 350

Please feel free to contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER ■ SOIL ■ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ■ 203/634-3731
165 GRACEY AVENUE ■ MERIDEN, CT ■ 06451

Client	: HRP Associates Inc.	Date Analyzed	: 10/25-26/95
Lab No.	: 105-362-16	Date Extracted	: 10-25-95
PO No.	: HOW0011.RC	Analyst	: YK
Rep. Date	: 10-31-95		

EPA METHOD 8240 GC/MS Date Samples Rec'd: 10-18-95

Matrix Type :		S	S
CTL SAMPLE # :		13539	13540
Field ID :		AOC11E	AOC11S
	MDL		
Dichlorodifluoromethane	10	BDL	BDL
Chloromethane	10	BDL	BDL
Vinyl Chloride	10	BDL	BDL
Chloroethane	10	BDL	BDL
Bromomethane	10	BDL	BDL
Trichlorofluoromethane	10	BDL	BDL
Acrolein	10	BDL	BDL
1,1-Dichloroethylene	10	BDL	BDL
Iodomethane	10	BDL	BDL
Allyl Chloride	10	BDL	BDL
Acrylonitrile	10	BDL	BDL
Methylene Chloride	10	BDL	BDL
trans-1,2-Dichloroethylene	10	BDL	BDL
1,1-Dichloroethane	10	BDL	BDL
2-Butanone(MEK)	10	BDL	BDL
cis-1,2-Dichloroethylene	10	BDL	BDL
Chloroform	10	BDL	BDL
Methacrylonitrile	10	BDL	BDL
Propionitrile	10	BDL	BDL
1,1,1-Trichloroethane	10	BDL	BDL
Carbontetrachloride	10	BDL	BDL
Benzene	10	BDL	BDL
1,2-Dichloroethane	10	BDL	BDL
Trichloroethylene	10	BDL	BDL
1,2-Dichloropropane	10	BDL	BDL
Methyl Methacrylate	10	BDL	BDL
Bromodichloromethane	10	BDL	BDL
Dibromomethane	10	BDL	BDL
2-Chlorethylvinylether	10	BDL	BDL
4-Methyl-2-pentanone(MIBK)	10	BDL	178.0
cis-1,3-Dichloropropylene	10	BDL	BDL
Toluene	10	BDL	BDL
trans-1,3Dichloropropylene	10	BDL	BDL
2-Hexanone(MBK)	10	BDL	BDL
Ethyl Methacrylate	10	BDL	BDL

MDL = Minimum Detectable Level/BDL = Below Detection Level/UNITS= PPB

Matrix Type: W= Water/Aqueous S=Soil/Solid O= Oil/Hydrocarbons
CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

November 2, 1995

RECEIVED
NOV - 6 1995
HRP ASSOCIATES, INC.

HRP Associates Inc.
167 New Britain Ave
Plainville, CT 06062

Attn: Ms. Pat Terwilliger

Please find attached laboratory report(s) for the samples submitted on :
October 18, 1995

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing and or the test results, please have the following information readily available :

LAB No. : 105-393-19
PO/JOB No. : HOW0011.RC
INVOICE No. : 55258
ORDER No. : 35351
CUSTOMER No.: 350

Please feel free to contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER ■ SOIL ■ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ■ 203/634-3731
165 GRACEY AVENUE ■ MERIDEN, CT ■ 06451

August 30, 1995

HRP Associates Inc.
167 New Britain Ave
Plainville, CT 06062

Attn: Ms. Pat Terwilliger

Please find attached laboratory report(s) for the samples submitted on :
August 15, 1995

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing and or the test results, please have the following information readily available :

LAB No. : 85-400-10
PO/JOB No. : HOW0010.P2
INVOICE No. : 53860
ORDER No. : 33943
CUSTOMER No.: 350

Please feel free to contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

Post-it® Fax Note 7671	Date	# of pages ▶ 4
To Jerry	From Helene	
Co./Dept.	Co.	
Phone # 85-400-10	Phone #	
Fax #	Fax # 630-1336	

connecticut testing laboratories inc.
WATER ■ SOIL ■ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ■ 203/634-3731
165 GRACEY AVENUE ■ MERIDEN, CT ■ 06451

Date Samples Received : 8-15-95

Client Name: **HRP Associates Inc.** CTL Lab No. 85-400-10
Report Date: 8-30-95 PO/Job No. HOW0010.P2

RESULTS OF ANALYSIS

Dissolved Metals

Matrix Type	W	W	W	W
CTL Sample No.	10563	10564	10565	10566
Field ID	B-1MW	B-2MW	B-3MW	B-4MW
Arsenic-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/L	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Cadmium-mg/L	ND<0.005	ND<0.005	ND<0.005	ND<0.005
Chromium, Total-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Lead-mg/L	ND<0.010	ND<0.010	ND<0.010	ND<0.010
Mercury-mg/L	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Selenium-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01

Matrix Type	W	W	W	W
CTL Sample No.	10563	10564	10565	10566
Field ID	B-1MW	B-2MW	B-3MW	B-4MW
pH	6.7	6.3	6.6	6.4
Oil & Grease (TPH)-mg/L	ND<5	ND<5	ND<5	ND<5
Phenols-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Date Samples Received : 8-15-95

Client Name: **HRP Associates Inc.** CTL Lab No. 85-400-10
Report Date: 8-30-95 PO/Job No. HOW0010.P2

RESULTS OF ANALYSIS

Dissolved Metals

Matrix Type	W	W	W	
CTL Sample No.	10567	10568	10569	
Field ID	B-5MW	B-7MW	B-13MW	
Arsenic-mg/L	ND<0.05	ND<0.05	ND<0.05	
Barium-mg/L	ND<0.5	0.7	ND<0.5	
Cadmium-mg/L	ND<0.005	ND<0.005	ND<0.005	
Chromium, Total-mg/L	ND<0.05	ND<0.05	ND<0.05	
Lead-mg/L	ND<0.010	ND<0.010	ND<0.010	
Mercury-mg/L	ND<0.002	ND<0.002	ND<0.002	
Selenium-mg/L	ND<0.01	ND<0.01	ND<0.01	
Silver-mg/L	ND<0.01	ND<0.01	ND<0.01	

Matrix Type	W	W	W	
CTL Sample No.	10567	10568	10569	
Field ID	B-5MW	B-7MW	B-13MW	
pH	6.6	6.9	5.2	
Oil & Grease (TPH)-mg/L	ND<5	ND<5	ND<5	
Phenols-mg/L	ND<0.05	ND<0.05	ND<0.05	

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : HRP Associates Inc. Date Tested : 8/27--8/28/95
Lab No. : 85-378-10 Analyst : RS
PO No. : HOW0010.P2
Rep. Date : 8-29-95

EPA METHOD 601/8010 Date Samples Rec'd: 8-15-95

Matrix Type :		W	W	W	W
Field ID :	MDL	B-1MW	B-2MW	B-3MW	B-4MW
Chloromethane	2	BDL	BDL	BDL	BDL
Bromomethane	2	BDL	BDL	BDL	BDL
Vinylchloride	2	BDL	BDL	BDL	BDL
Chloroethane	2	BDL	BDL	BDL	BDL
Methylenechloride	1	BDL	BDL	BDL	BDL
Trichlorofluoromethane	1	BDL	BDL	BDL	BDL
11-Dichloroethylene	1	BDL	BDL	BDL	BDL
11-Dichloroethane	1	BDL	BDL	BDL	BDL
T12-Dichloroethylene	1	1.0	6.0	BDL	1.0
Chloroform	1	BDL	BDL	BDL	BDL
12-Dichloroethane	1	BDL	BDL	BDL	BDL
111-Trichloroethane	1	BDL	BDL	BDL	BDL
Carbontetrachloride	1	BDL	BDL	BDL	BDL
Bromodichloromethane	1	BDL	BDL	BDL	BDL
12-Dichloropropane	1	BDL	BDL	BDL	BDL
T13-Dichloropropylene	1	BDL	BDL	BDL	BDL
Trichloroethylene	1	BDL	7.0	BDL	1.0
Dibromochloromethane	1	BDL	BDL	BDL	BDL
112-Trichloroethane	1	BDL	BDL	BDL	BDL
Cis13-Dichloropropylene	1	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	1	BDL	BDL	BDL	BDL
Bromoform	1	BDL	BDL	BDL	BDL
1122-Tetrachloroethane	1	BDL	BDL	BDL	BDL
Tetrachloroethylene	1	BDL	2.0	BDL	2.0
Chlorobenzene	1	BDL	BDL	BDL	BDL
Benzyl Chloride	10	BDL	BDL	BDL	BDL
Bis(2-chlorethoxy)methane	10	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl)eth	10	BDL	BDL	BDL	BDL
Bromobenzene	1	BDL	BDL	BDL	BDL
Chloracetaldehyde	10	BDL	BDL	BDL	BDL
1-Chlorohexane	1	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	10	BDL	BDL	BDL	BDL
Chlorotoluene	1	BDL	BDL	BDL	BDL
Dibromomethane	1	BDL	BDL	BDL	BDL
12-Dichlorobenzene	1	BDL	BDL	BDL	BDL
13-Dichlorobenzene	1	BDL	BDL	BDL	BDL
14-Dichlorobenzene	1	BDL	BDL	BDL	BDL
Trichloropropane	1	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB

Matrix Type : W= Water/Aqu

CONNECTICUT TI
165 Gracey Aveni
(2(
Connecticut C

Post-it® Fax Note 7671 Date 9/1/95 # of pages ▶ 9
To Jerry Gillette From Steve
Co./Dept. Co.
Phone # Phone #
Fax # Fax # 630-1336

Client : HRP Associates Inc. Date Tested : 8/27--8/28/95
Lab No. : 85-378-10 Analyst : RS
PO No. : HOW0010.P2
Rep. Date : 8-29-95

EPA METHOD 601/8010 Date Samples Rec'd: 8-15-95

Matrix Type :		W	W	W	
Field ID :	MDL	B-5MW	B-7MW	B-13MW	
Chloromethane	2	BDL	BDL	BDL	
Bromomethane	2	BDL	BDL	BDL	
Vinylchloride	2	BDL	BDL	BDL	
Chloroethane	2	BDL	BDL	BDL	
Methylenechloride	1	BDL	BDL	BDL	
Trichlorofluoromethane	1	BDL	BDL	BDL	
11-Dichloroethylene	1	BDL	BDL	BDL	
11-Dichloroethane	1	BDL	BDL	BDL	
T12-Dichloroethylene	1	BDL	BDL	BDL	
Chloroform	1	BDL	BDL	BDL	
12-Dichloroethane	1	BDL	BDL	BDL	
111-Trichloroethane	1	BDL	BDL	BDL	
Carbontetrachloride	1	BDL	BDL	BDL	
Bromodichloromethane	1	BDL	BDL	BDL	
12-Dichloropropane	1	BDL	BDL	BDL	
T13-Dichloropropylene	1	BDL	BDL	BDL	
Trichloroethylene	1	BDL	BDL	BDL	
Dibromochloromethane	1	BDL	BDL	BDL	
112-Trichloroethane	1	BDL	BDL	BDL	
Cis13-Dichloropropylene	1	BDL	BDL	BDL	
2-Chlorethylvinylether	1	BDL	BDL	BDL	
Bromoform	1	BDL	BDL	BDL	
1122-Tetrachloroethane	1	BDL	BDL	BDL	
Tetrachloroethylene	1	BDL	BDL	BDL	
Chlorobenzene	1	BDL	BDL	BDL	
Benzyl Chloride	10	BDL	BDL	BDL	
Bis(2-chlorethoxy)methane	10	BDL	BDL	BDL	
Bis(2-chloroisopropyl)eth	10	BDL	BDL	BDL	
Bromobenzene	1	BDL	BDL	BDL	
Chloracetaldehyde	10	BDL	BDL	BDL	
1-Chlorohexane	1	BDL	BDL	BDL	
Chloromethyl methyl ether	10	BDL	BDL	BDL	
Chlorotoluene	1	BDL	BDL	BDL	
Dibromomethane	1	BDL	BDL	BDL	
12-Dichlorobenzene	1	BDL	BDL	BDL	
13-Dichlorobenzene	1	BDL	BDL	BDL	
14-Dichlorobenzene	1	BDL	BDL	BDL	
Trichloropropane	1	BDL	BDL	BDL	

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB

Matrix Type : W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: HRP Associates Inc.	Date Tested	: 8/27--8/28/95
Lab No.	: 85-378-10	Analyst	: RS
PO No.	: HOW0010.P2		
Rep. Date	: 8-29-95		

EPA METHOD 602/8020 Date Samples Rec'd: 8-15-95

Matrix Type :		W	W	W	W
Field ID :		B-1MW	B-2MW	B-3MW	B-4MW
	MDL				
Benzene	1	BDL	BDL	BDL	BDL
Toluene	1	BDL	BDL	BDL	BDL
Chlorobenzene	1	BDL	BDL	BDL	BDL
Ethyl Benzene	1	BDL	BDL	BDL	BDL
P & M Xylene	1	BDL	BDL	BDL	BDL
O- Xylene	1	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	1	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	1	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	1	BDL	BDL	BDL	BDL
Acetone-ppm	0.1	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level/ BDL = Below Detection Level/ UNITS= PPB

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: HRP Associates Inc.	Date Tested	: 8/27--8/28/95
Lab No.	: 85-378-10	Analyst	: RS
PO No.	: HOW0010.P2		
Rep. Date	: 8-29-95		

EPA METHOD 602/8020 Date Samples Rec'd: 8-15-95

Matrix Type :		W	W	W	
Field ID :		B-5MW	B-7MW	B-13MW	
	MDL				
Benzene	1	BDL	BDL	BDL	
Toluene	1	BDL	BDL	BDL	
Chlorobenzene	1	BDL	BDL	BDL	
Ethyl Benzene	1	BDL	BDL	BDL	
P & M Xylene	1	BDL	BDL	BDL	
O- Xylene	1	BDL	BDL	BDL	
1,4-Dichlorobenzene	1	BDL	BDL	BDL	
1,3-Dichlorobenzene	1	BDL	BDL	BDL	
1,2-Dichlorobenzene	1	BDL	BDL	BDL	
Acetone-ppm	0.1	BDL	BDL	BDL	

MDL = Minimum Detectable Level/ BDL = Below Detection Level/ UNITS= PPB

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: HRP Associates Inc.	Date Tested	: 8/27--8/28/95
Lab No.	: 85-378-10	Analyst	: RS
PO No.	: HOW0010.P2		
Rep. Date	: 8-29-95		

EPA METHOD 8015 Date Samples Rec'd: 8-15-95

Matrix Type :		W	W	W	W
Field ID :		B-1MW	B-2MW	B-3MW	B-4MW
	MDL				
Methyl Ethyl Ketone	50	BDL	BDL	BDL	BDL
Methyl Isobutyl Ketone	50	BDL	BDL	BDL	BDL
Acrylamide	50	BDL	BDL	BDL	BDL
Carbon Disulfide	50	BDL	BDL	BDL	BDL
Diethyl Ether	50	BDL	BDL	BDL	BDL
Paraldehyde	50	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level/BDL = Below Detection Level/UNITS=PPB

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: HRP Associates Inc.	Date Tested	: 8/27--8/28/95
Lab No.	: 85-378-10	Analyst	: RS
PO No.	: HOW0010.P2		
Rep. Date	: 8-29-95		

EPA METHOD 8015 Date Samples Rec'd: 8-15-95

Matrix Type :		W	W	W	
Field ID :		B-5MW	B-7MW	B-13MW	
	MDL				
Methyl Ethyl Ketone	50	BDL	BDL	BDL	
Methyl Isobutyl Ketone	50	BDL	BDL	BDL	
Acrylamide	50	BDL	BDL	BDL	
Carbon Disulfide	50	BDL	BDL	BDL	
Diethyl Ether	50	BDL	BDL	BDL	
Paraldehyde	50	BDL	BDL	BDL	

MDL = Minimum Detectable Level/BDL = Below Detection Level/UNITS=PPB

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

August 31, 1995

HRP Associates Inc.
167 New Britain Ave
Plainville, CT 06062

RECEIVED SEP - 5 1995

Attn: Ms. Pat Terwilliger

Please find attached laboratory report(s) for the samples submitted on : **August 15, 1995**

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing and or the test results, please have the following information readily available :

LAB No. : 85-416-10
PO/JOB No. : HOW0010.P2
INVOICE No. : 53887
ORDER No. : 33970
CUSTOMER No.: 350

Please feel free to contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER ■ SOIL ■ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ■ 203/634-3731
165 GRACEY AVENUE ■ MERIDEN, CT ■ 06451

Date Samples Received : 8-15-95

Client Name: **HRP Associates Inc.** CTL Lab No. 85-416-10
Report Date: 8-31-95 PO/Job No. HOW0010.P2

RESULTS OF ANALYSIS

Matrix Type: W

Field ID	CTL#	Formaldehyde -ppm
B-1MW	10563	BDL
B-2MW	10564	BDL
B-3MW	10565	BDL
B-4MW	10566	BDL
B-5MW	10567	BDL
B-7MW	10568	BDL
B-13MW	10569	BDL

Matrix Type	S	S	S
CTL Sample No.	10570	10571	10572
Field ID	*Venthood*	*DG*	*RO*
Formaldehyde-ppm	BDL	BDL	BDL

MDL = 10 ppm

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

August 30, 1995

HRP Associates Inc.
167 New Britain Ave
Plainville, CT 06062

RECEIVED SEP - 5 1995

Attn: Ms. Pat Terwilliger

Please find attached laboratory report(s) for the samples submitted on : ***August 15, 1995***

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing and or the test results, please have the following information readily available :

LAB No. : 85-400-10
PO/JOB No. : HOW0010.P2
INVOICE No. : 53860
ORDER No. : 33943
CUSTOMER No.: 350

Please feel free to contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER ■ SOIL ■ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ■ 203/634-3731
165 GRACEY AVENUE ■ MERIDEN, CT ■ 06451

Date Samples Received : 8-15-95

Client Name: **HRP Associates Inc.** CTL Lab No. 85-400-10
Report Date: 8-30-95 PO/Job No. HOW0010.P2

RESULTS OF ANALYSIS

Dissolved Metals

Matrix Type	W	W	W	W
CTL Sample No.	10563	10564	10565	10566
Field ID	B-1MW	B-2MW	B-3MW	B-4MW
Arsenic-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/L	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Cadmium-mg/L	ND<0.005	ND<0.005	ND<0.005	ND<0.005
Chromium, Total-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Lead-mg/L	ND<0.010	ND<0.010	ND<0.010	ND<0.010
Mercury-mg/L	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Selenium-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01

Matrix Type	W	W	W	W
CTL Sample No.	10563	10564	10565	10566
Field ID	B-1MW	B-2MW	B-3MW	B-4MW
pH	6.7	6.3	6.6	6.4
Oil & Grease (TPH)-mg/L	ND<5	ND<5	ND<5	ND<5
Phenols-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

Date Samples Received : 8-15-95

Client Name: **HRP Associates Inc.**
Report Date: 8-30-95
CTL Lab No. 85-400-10
PO/Job No. HOW0010.P2

RESULTS OF ANALYSIS

Dissolved Metals

Matrix Type	W	W	W	
CTL Sample No.	10567	10568	10569	
Field ID	B-5MW	B-7MW	B-13MW	
Arsenic-mg/L	ND<0.05	ND<0.05	ND<0.05	
Barium-mg/L	*ND<0.5*	*0.7*	*ND<0.5*	
Cadmium-mg/L	ND<0.005	ND<0.005	ND<0.005	
Chromium, Total-mg/L	ND<0.05	ND<0.05	ND<0.05	
Lead-mg/L	ND<0.010	ND<0.010	ND<0.010	
Mercury-mg/L	ND<0.002	ND<0.002	ND<0.002	
Selenium-mg/L	ND<0.01	ND<0.01	ND<0.01	
Silver-mg/L	*ND<0.01*	*ND<0.01*	*ND<0.01*	

Matrix Type	W	W	W	
CTL Sample No.	10567	10568	10569	
Field ID	B-5MW	B-7MW	B-13MW	
pH	6.6	6.9	5.2	
Oil & Grease (TPH)-mg/L	ND<5	ND<5	ND<5	
Phenols-mg/L	ND<0.05	ND<0.05	ND<0.05	

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Phone: 203-793-6899
Fax: 203-793-6871

HRP
CHAIN OF CUSTODY

Sheet 1 of 2
Job Number HOW-0010.P2
Project Manager HSH

Place & Address of Collection: Howe Furniture Corporation, 151 Woodward Ave., Norwalk, CT
Samplers Name (Signature): Christopher J. Latte
Assistant (Witness)(Signature):

Sample Number	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Type: Water	Soil	Air	Waste	Remarks
1	B-1MW	G,P,VOA	3160ml	* Cool	8-15-95		X				
2	B-2MW	"	"	"	"						
3	B-3MW	"	"	"	"						
4	B-4MW	"	"	"	"						
5	B-5MW	V	V	V	V		V				

Relinquished By (Signature): Christopher J. Latte — Received By (Signature): M. McMahon — Date 8/15/95 — Time 3:35
Relinquished By (Signature): — Received By (Signature): — Date — Time
Name & Address of Laboratory: CTL - Meriden, CT

LABORATORY SAMPLE PREPARATION REQUIRED

None ☐ Filter ☐ Adjust pH to _____ Priority ☐
Other

ANALYSES REQUIRED

Parameters	Sample Number 1	2	3	4	5
pH	X	X	X	X	X
Ag					
Al					
As					
Ba					
Cd					
CN-A					
CN-T					
Cr^{+6}					
Cr-T					
Cu					
Fe-D					
Hg					
Na					
Ni					
Pb					
Se					
Sp. Cond.					
TDS					
Zn					

Parameters	Sample Number 1	2	3	4	5
TPH 418.1 ✓	X	X	X	X	X
TOC					
TOX					
STD Water					
Total Coliform					
Fluoride					
Chloride					
8010/601	X	X	X	X	X
8015	X	X	X	X	X
8020/602	X	X	X	X	X
8020 + MTBE					
8080					
8100					
8 TCLP Metals					
RCRA Metals by SPLP (EPA 1312)	X	X	X	X	X
ACETONE	X	X	X	X	X
Phenols ✓	X	X	X	X	X
Formaldehyde (GC method)	X	X	X	X	X

Remarks: * VOA's Adj. w/ HCL
TPH + Phenols adj. w/ H_2SO_4, pH < 2, Metals - dissolved

White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File

№ 3942

Date Samples Received : 8-15-95

Client Name: **HRP Associates Inc.**
Report Date: 8-30-95
CTL Lab No. 85-400-10
PO/Job No. HOW0010.P2

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type	S	S	S	
CTL Sample No.	10570	10571	10572	
Field ID	Venthood	DG	RO	
Arsenic-mg/L	ND<0.05	ND<0.05	ND<0.05	
Barium-mg/L	ND<0.5	ND<0.5	0.5	
Cadmium-mg/L	ND<0.005	ND<0.005	ND<0.005	
Chromium, Total-mg/L	ND<0.05	ND<0.05	ND<0.05	
Lead-mg/L	ND<0.010	0.015	ND<0.010	
Mercury-mg/L	*ND<0.002*	*ND<0.002*	*ND<0.002*	
Selenium-mg/L	ND<0.01	ND<0.01	ND<0.01	
Silver-mg/L	ND<0.01	ND<0.01	ND<0.01	

Matrix Type	S	S	S	
CTL Sample No.	10570	10571	10572	
Field ID	Venthood	DG	RO	
pH	7.4	6.7	6.3	
Oil & Grease (TPH)-ppm	4,000	26	47	
Phenols-ppm	ND<1.0	ND<1.0	ND<1.0	

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Phone: 203-793-6899
Fax: 203-793-6871

HRP
CHAIN OF CUSTODY

Sheet 2 of 2
Job Number HOW-0010.P2
Project Manager HSH

Place & Address of Collection: Howe Furniture Corporation, 151 Woodward Ave., Norwalk, CT
Samplers Name (Signature): Christopher J. Latte
Assistant (Witness)(Signature):

Sample Number	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Type: Water	Soil	Air	Waste	Remarks
6	B-7MW	G,P,VOA	3160ml	* Cool	8-15-95		X				
7	B-13MW	"	"	"	"		X				
8	Venthood	G	8oz					X			0.5-1'
9	DG							X			0-1'
10	RO	V	V	V	V			X			1.5-2.5'

Relinquished By (Signature): Christopher J. Latte — Received By (Signature): M. McMahon — Date 8/15/95 — Time 3:35
Relinquished By (Signature): — Received By (Signature): — Date — Time
Name & Address of Laboratory: CTL, Meriden, CT

LABORATORY SAMPLE PREPARATION REQUIRED

None ☐ Filter ☐ Adjust pH to _____ Priority ☐
Other

ANALYSES REQUIRED

Parameters	Sample Number 6	7	8	9	10
pH	X	X	X	X	X
Ag					
Al					
As					
Ba					
Cd					
CN-A					
CN-T					
Cr^{+6}					
Cr-T					
Cu					
Fe-D					
Hg					
Na					
Ni					
Pb					
Se					
Sp. Cond.					
TDS					
Zn					

Parameters	Sample Number 6	7	8	9	10
TPH 418.1	X	X	X	X	X
TOC					
TOX					
STD Water					
Total Coliform					
Fluoride					
Chloride					
8010/601	X	X	X	X	X
8015	X	X	X	X	X
8020/602	X	X	X	X	X
8020 + MTBE					
8080					
8100					
8 TCLP Metals					
RCRA Metals by SPLP (EPA 1312)	X	X	X	X	X
ACETONE	X	X	X	X	X
Phenols	X	X	X	X	X
Formaldehyde (GC method)	X	X	X	X	X

Remarks: VOA's Adj. w/ HCL
TPH + Phenols adj. w/ H_2SO_4, pH < 2, Metals - dissolved

White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File

№ 3951

August 29, 1995

HRP Associates Inc.
167 New Britain Ave
Plainville, CT 06062

RECEIVED
SEP - 7 1995
HRP ASSOCIATES, INC.

Attn: Ms. Pat Terwilliger

Please find attached laboratory report(s) for the samples submitted on : **August 15, 1995**

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing and or the test results, please have the following information readily available :

LAB No. : 85-378-10
PO/JOB No. : HOW0010.P2
INVOICE No. : 53847
ORDER No. : 33930
CUSTOMER No.: 350

Please feel free to contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER ■ SOIL ■ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ■ 203/634-3731
165 GRACEY AVENUE ■ MERIDEN, CT ■ 06451

Client : HRP Associates Inc. | Date Tested : 8/27--8/28/95
Lab No. : 85-378-10 | Analyst : RS
PO No. : HOW0010.P2
Rep. Date : 8-29-95

EPA METHOD 601/8010 **Date Samples Rec'd: 8-15-95**

Matrix Type :		W	W	W	W
Field ID :	MDL	B-1MW	B-2MW	B-3MW	B-4MW
Chloromethane	2	BDL	BDL	BDL	BDL
Bromomethane	2	*BDL*	*BDL*	*BDL*	*BDL*
Vinylchloride	2	BDL	BDL	BDL	BDL
Chloroethane	2	BDL	BDL	BDL	BDL
Methylenechloride	1	BDL	BDL	BDL	BDL
Trichlorofluoromethane	1	BDL	BDL	BDL	BDL
11-Dichloroethylene	1	BDL	BDL	BDL	BDL
11-Dichloroethane	1	BDL	BDL	BDL	BDL
T12-Dichloroethylene	1	1.0	6.0	BDL	1.0
Chloroform	1	BDL	BDL	BDL	BDL
12-Dichloroethane	1	BDL	BDL	BDL	BDL
111-Trichloroethane	1	BDL	BDL	BDL	BDL
Carbontetrachloride	1	BDL	BDL	BDL	BDL
Bromodichloromethane	1	BDL	BDL	BDL	BDL
12-Dichloropropane	1	BDL	BDL	BDL	BDL
T13-Dichloropropylene	1	BDL	BDL	BDL	BDL
Trichloroethylene	1	BDL	7.0	BDL	1.0
Dibromochloromethane	1	BDL	BDL	BDL	BDL
112-Trichloroethane	1	BDL	BDL	BDL	BDL
Cis13-Dichloropropylene	1	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	1	BDL	BDL	BDL	BDL
Bromoform	1	BDL	BDL	BDL	BDL
1122-Tetrachloroethane	1	BDL	BDL	BDL	BDL
Tetrachloroethylene	1	BDL	2.0	BDL	2.0
Chlorobenzene	1	BDL	BDL	BDL	BDL
Benzyl Chloride	10	BDL	BDL	BDL	BDL
Bis(2-chlorethoxy)methane	10	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl)eth	10	BDL	BDL	BDL	BDL
Bromobenzene	1	BDL	BDL	BDL	BDL
Chloracetaldehyde	10	BDL	BDL	BDL	BDL
1-Chlorohexane	1	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	10	BDL	BDL	BDL	BDL
Chlorotoluene	1	BDL	BDL	BDL	BDL
Dibromomethane	1	*BDL*	*BDL*	*BDL*	*BDL*
12-Dichlorobenzene	1	BDL	BDL	BDL	BDL
13-Dichlorobenzene	1	BDL	BDL	BDL	BDL
14-Dichlorobenzene	1	BDL	BDL	BDL	BDL
Trichloropropane	1	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB

Matrix Type : W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

Client : HRP Associates Inc. | Date Tested : 8/27--8/28/95
Lab No. : 85-378-10 | Analyst : RS
PO No. : HOW0010.P2
Rep. Date : 8-29-95

EPA METHOD 601/8010 **Date Samples Rec'd: 8-15-95**

Matrix Type :		W	W	W	
Field ID :	MDL	B-5MW	B-7MW	B-13MW	
Chloromethane	2	BDL	BDL	BDL	
Bromomethane	2	*BDL*	*BDL*	*BDL*	
Vinylchloride	2	BDL	BDL	BDL	
Chloroethane	2	BDL	BDL	BDL	
Methylenechloride	1	BDL	BDL	BDL	
Trichlorofluoromethane	1	BDL	BDL	BDL	
11-Dichloroethylene	1	BDL	BDL	BDL	
11-Dichloroethane	1	BDL	BDL	BDL	
T12-Dichloroethylene	1	BDL	BDL	BDL	
Chloroform	1	BDL	BDL	BDL	
12-Dichloroethane	1	BDL	BDL	BDL	
111-Trichloroethane	1	BDL	BDL	BDL	
Carbontetrachloride	1	BDL	BDL	BDL	
Bromodichloromethane	1	BDL	BDL	BDL	
12-Dichloropropane	1	BDL	BDL	BDL	
T13-Dichloropropylene	1	BDL	BDL	BDL	
Trichloroethylene	1	BDL	BDL	BDL	
Dibromochloromethane	1	BDL	BDL	BDL	
112-Trichloroethane	1	BDL	BDL	BDL	
Cis13-Dichloropropylene	1	BDL	BDL	BDL	
2-Chlorethylvinylether	1	BDL	BDL	BDL	
Bromoform	1	BDL	BDL	BDL	
1122-Tetrachloroethane	1	BDL	BDL	BDL	
Tetrachloroethylene	1	BDL	BDL	BDL	
Chlorobenzene	1	BDL	BDL	BDL	
Benzyl Chloride	10	BDL	BDL	BDL	
Bis(2-chlorethoxy)methane	10	BDL	BDL	BDL	
Bis(2-chloroisopropyl)eth	10	BDL	BDL	BDL	
Bromobenzene	1	BDL	BDL	BDL	
Chloracetaldehyde	10	BDL	BDL	BDL	
1-Chlorohexane	1	BDL	BDL	BDL	
Chloromethyl methyl ether	10	BDL	BDL	BDL	
Chlorotoluene	1	BDL	BDL	BDL	
Dibromomethane	1	*BDL*	*BDL*	*BDL*	
12-Dichlorobenzene	1	BDL	BDL	BDL	
13-Dichlorobenzene	1	BDL	BDL	BDL	
14-Dichlorobenzene	1	BDL	BDL	BDL	
Trichloropropane	1	BDL	BDL	BDL	

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB

Matrix Type : W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

Client : HRP Associates Inc. | Date Tested : 8/27--8/28/95
Lab No. : 85-378-10 | Analyst : RS
PO No. : HOW0010.P2
Rep. Date : 8-29-95

EPA METHOD 601/8010 **Date Samples Rec'd: 8-15-95**

Matrix Type :		S	S	S
CTL Sample No.		10570	10571	10572
Field ID :	MDL	Venthood	DG	RO
Chloromethane	25	BDL	BDL	BDL
Bromomethane	25	BDL	BDL	BDL
Vinylchloride	25	BDL	BDL	BDL
Chloroethane	25	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL
11-Dichloroethylene	25	BDL	BDL	BDL
11-Dichloroethane	25	BDL	BDL	BDL
T12-Dichloroethylene	25	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL
12-Dichloroethane	25	BDL	BDL	BDL
111-Trichloroethane	25	*BDL*	*BDL*	*BDL*
Carbontetrachloride	25	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL
12-Dichloropropane	25	BDL	BDL	BDL
T13-Dichloropropylene	25	BDL	BDL	BDL
Trichloroethylene	25	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL
112-Trichloroethane	25	BDL	BDL	BDL
Cis13-Dichloropropylene	25	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL
1122-Tetrachloroethane	25	*BDL*	*BDL*	*BDL*
Tetrachloroethylene	25	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL
Benzyl Chloride	100	BDL	BDL	BDL
Bis(2-chlorethoxy)methane	100	BDL	BDL	BDL
Bis(2-chloroisopropyl)eth	100	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL
Chloracetaldehyde	100	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL
Chloromethyl methyl ether	100	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL
12-Dichlorobenzene	25	BDL	BDL	BDL
13-Dichlorobenzene	25	BDL	BDL	BDL
14-Dichlorobenzene	25	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB

Matrix Type : W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

Client : HRP Associates Inc.
Lab No. : 85-378-10
PO No. : HOW0010.P2
Rep. Date : 8-29-95

Date Tested : 8/27--8/28/95
Analyst : RS

EPA METHOD 602/8020 Date Samples Rec'd: 8-15-95

Matrix Type :		W	W	W	W
Field ID :		B-1MW	B-2MW	B-3MW	B-4MW
	MDL				
Benzene	1	BDL	BDL	BDL	BDL
Toluene	1	BDL	BDL	BDL	BDL
Chlorobenzene	1	BDL	BDL	BDL	BDL
Ethyl Benzene	1	BDL	BDL	BDL	BDL
P & M Xylene	1	BDL	BDL	BDL	BDL
O- Xylene	1	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	1	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	1	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	1	BDL	BDL	BDL	BDL
Acetone-ppm	0.1	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level/ BDL = Below Detection Level/ UNITS= PPB

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : HRP Associates Inc.
Lab No. : 85-378-10
PO No. : HOW0010.P2
Rep. Date : 8-29-95

Date Tested : 8/27--8/28/95
Analyst : RS

EPA METHOD 602/8020 Date Samples Rec'd: 8-15-95

Matrix Type :		W	W	W
Field ID :		B-5MW	B-7MW	B-13MW
	MDL			
Benzene	1	BDL	BDL	BDL
Toluene	1	BDL	BDL	BDL
Chlorobenzene	1	BDL	BDL	BDL
Ethyl Benzene	1	BDL	BDL	BDL
P & M Xylene	1	BDL	BDL	BDL
O- Xylene	1	BDL	BDL	BDL
1,4-Dichlorobenzene	1	BDL	BDL	BDL
1,3-Dichlorobenzene	1	BDL	BDL	BDL
1,2-Dichlorobenzene	1	BDL	BDL	BDL
Acetone-ppm	0.1	BDL	BDL	BDL

MDL = Minimum Detectable Level/ BDL = Below Detection Level/ UNITS= PPB

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : HRP Associates Inc.
Lab No. : 85-378-10
PO No. : HOW0010.P2
Rep. Date : 8-29-95

Date Tested : 8/27--8/28/95
Analyst : RS

EPA METHOD 602/8020 Date Samples Rec'd: 8-15-95

Matrix Type :		S	S	S
CTL Sample #:		10570	10571	10572
Field ID :		Venthood	DG	RO
	MDL			
Benzene	25	BDL	BDL	BDL
Toluene	25	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL
Ethyl Benzene	25	BDL	BDL	BDL
P & M Xylene	25	BDL	BDL	BDL
O- Xylene	25	BDL	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL	BDL
Acetone-ppm	0.5	BDL	BDL	BDL

MDL = Minimum Detectable Level/ BDL = Below Detection Level/ UNITS= PPB

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : HRP Associates Inc.
Lab No. : 85-378-10
PO No. : HOW0010.P2
Rep. Date : 8-29-95

Date Tested : 8/27--8/28/95
Analyst : RS

EPA METHOD 8015 Date Samples Rec'd: 8-15-95

Matrix Type :		W	W	W	W
Field ID :		B-1MW	B-2MW	B-3MW	B-4MW
	MDL				
Methyl Ethyl Ketone	50	BDL	BDL	BDL	BDL
Methyl Isobutyl Ketone	50	BDL	BDL	BDL	BDL
Acrylamide	50	BDL	BDL	BDL	BDL
Carbon Disulfide	50	BDL	BDL	BDL	BDL
Diethyl Ether	50	BDL	BDL	BDL	BDL
Paraldehyde	50	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level/BDL = Below Detection Level/UNITS=PPB

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : HRP Associates Inc. Date Tested : 8/27--8/28/95
Lab No. : 85-378-10 Analyst : RS
PO No. : HOW0010.P2
Rep. Date : 8-29-95

EPA METHOD 8015 Date Samples Rec'd: 8-15-95

Matrix Type :		W	W	W
Field ID :	MDL	B-5MW	B-7MW	B-13MW
Methyl Ethyl Ketone	50	BDL	BDL	BDL
Methyl Isobutyl Ketone	50	BDL	BDL	BDL
Acrylamide	50	BDL	BDL	BDL
Carbon Disulfide	50	BDL	BDL	BDL
Diethyl Ether	50	BDL	BDL	BDL
Paraldehyde	50	BDL	BDL	BDL

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS**=PPB
Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil Hydrocarbons

Client : HRP Associates Inc. Date Tested : 8/27--8/28/95
Lab No. : 85-378-10 Analyst : RS
PO No. : HOW0010.P2
Rep. Date : 8-29-95

EPA METHOD 8015 Date Sample Rec'd: 8-15-95

Matrix Type:		S	S	S
CTL SAMPLE # :		10570	10571	10572
Field ID :	MDL	Venthood	DG	RO
Methyl Ethyl Ketone	100	BDL	BDL	BDL
Methyl Isobutyl Ketone	100	BDL	BDL	BDL
Acrylamide	100	BDL	BDL	BDL
Carbon Disulfide	100	BDL	BDL	BDL
Diethyl Ether	100	BDL	BDL	BDL
Paraldehyde	100	BDL	BDL	BDL

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB
Matrix Types : **W** =Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Phone: 203-793-6899
Fax: 203-793-6871

HRP
CHAIN OF CUSTODY

Sheet 1 of 2
Job Number HOW-0010.P2
Project Manager HSH

Place & Address of Collection: Howe Furniture Corporation, 151 Woodward Ave., Norwalk, CT
Samplers Name (Signature): Christopher J. Tobbe
Assistant (Witness)(Signature):

Sample Number	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Type: Water	Soil	Air	Waste	Remarks
1	B-1mw	G,P,VOA	3160mL	* Cool	8-15-95		X				
2	B-2mw	"	"	"	"		X				
3	B-3mw	"	"	"	"		X				
4	B-4mw	"	"	"	"		X				
5	B-5mw	"	"	"	"		X				

Relinquished By (Signature): Christopher J. Tobbe — Received By (Signature): M. McMahon — Date 8/15/95 — Time 3:35
Relinquished By (Signature): — Received By (Signature): — Date — Time
Name & Address of Laboratory: CTL - Meriden, CT

LABORATORY SAMPLE PREPARATION REQUIRED

None ☐ Filter ☐ Adjust pH to _____ Priority ☐
Other

ANALYSES REQUIRED

Parameters	Sample Number 1	2	3	4	5
pH	X	X	X	X	X
Ag					
Al					
As					
Ba					
Cd					
CN-A					
CN-T					
Cr^{+6}					
Cr-T					
Cu					
Fe-D					
Hg					
Ni					
Pb					
Se					
Sp. Cond.					
TDS					
Zn					

Parameters	Sample Number 1	2	3	4	5
TPH 418.1	X	X	X	X	X
TOC					
TOX					
STD Water					
Total Coliform					
Fluoride					
Chloride					
8010/601	X	X	X	X	X
8015	X	X	X	X	X
8020/602	X	X	X	X	X
8020 + MTBE					
8080					
8100					
8 TCLP Metals					
BRCRA Metals by SPLP (EPA 1312)	X	X	X	X	X
*ACETONE	X	X	X	X	X
Phenols	X	X	X	X	X
Formaldehyde (GC method)	X	X	X	X	X

Remarks: * VOA's Adj. w/ HCL
TPH + Phenols adj. w/ H_2SO_4, pH < 2, Metals - dissolved

White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File

№ 3942

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Phone: 203-793-6899
Fax: 203-793-6871

HRP
CHAIN OF CUSTODY

Sheet 2 of 2
Job Number HOW-0010.P2
Project Manager HSH

Place & Address of Collection: Howe Furniture Corporation, 151 Woodward Ave., Norwalk, CT
Samplers Name (Signature): Christopher J. Tobbe
Assistant (Witness)(Signature):

Sample Number	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Type: Water	Soil	Air	Waste	Remarks
6	B-7mw	G,P,VOA	3160mL	* Cool	8-15-95		X				
7	B-13mw	"	"	"	"		X				
8	Venthood	G	802	"	"			X			0.5-1'
9	DG	"	"	"	"			X			0-1'
10	RO	"	"	"	"			X			1.5-2.5'

Relinquished By (Signature): Christopher J. Tobbe — Received By (Signature): M. McMahon — Date 8/15/95 — Time 3:35
Relinquished By (Signature): — Received By (Signature): — Date — Time
Name & Address of Laboratory: CTL, Meriden, CT

LABORATORY SAMPLE PREPARATION REQUIRED

None ☐ Filter ☐ Adjust pH to _____ Priority ☐
Other

ANALYSES REQUIRED

Parameters	Sample Number 6	7	8	9	10
pH	X	X	X	X	X
Ag					
Al					
As					
Ba					
Cd					
CN-A					
CN-T					
Cr^{+6}					
Cr-T					
Cu					
Fe-D					
Hg					
Ni					
Pb					
Se					
Sp. Cond.					
TDS					
Zn					

Parameters	Sample Number 6	7	8	9	10
TPH 418.1	X	X	X	X	X
TOC					
TOX					
STD Water					
Total Coliform					
Fluoride					
Chloride					
8010/601	X	X	X	X	X
8015	X	X	X	X	X
8020/602	X	X	X	X	X
8020 + MTBE					
8080					
8100					
8 TCLP Metals					
BRCRA Metals by SPLP (EPA 1312)	X	X	X	X	X
ACETONE	X	X	X	X	X
Phenols	X	X	X	X	X
Formaldehyde (GC method)	X	X	X	X	X

Remarks: * VOA's Adj. w/ HCL
TPH + Phenols adj. w/ H_2SO_4, pH < 2, Metals - dissolved

White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File

№ 3951

October 25, 1995

HRP Associates Inc.
167 New Britain Ave
Plainville, CT 06062

OCT 26 1995

Attn: Ms. Pat Terwilliger

Please find attached laboratory report(s) for the samples submitted on : October 13, 1995

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing and or the test results, please have the following information readily available :

LAB No. : 105-255-18
PO/JOB No. : HOWG010.P3
INVOICE No. : 55092
ORDER No. : 35185
CUSTOMER No.: 350

Please feel free to contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER ■ SOIL ■ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ☎ 203/634-3731
165 GRACEY AVENUE ■ MERIDEN, CT ☎ 06451

Date Samples Received : 10-13-95

Client Name: HRP Associates Inc. CTL Lab No. 105-255-18
Report date: 10-25-95 PO/Job No. HOWG010.P3

RESULTS OF ANALYSIS

EPA 418.1

Matrix Type: S

Field ID	CTL#	Oil & Grease (TPH)-ppm
#1	13353	756
#2	13354	68
#3	13355	76
#4	13356	1,899
#5	13357	40
#6	13358	ND<25
#7	13359	540
#8	13360	364
#9	13361	104
#10	13362	208
#11	13363	396
#12	13364	36
#13	13365	72
#14	13366	36
#15	13367	56
#16	13368	812
#17	13369	272
#18	13370	ND<25

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Phone: 203-793-6899
Fax: 203-793-6871

HRP
CHAIN OF CUSTODY

Sheet 1 of 4
Job Number HOW 010.P3
Project Manager HSH

Place & Address of Collection: Howe Furniture Norwalk CT
Samplers Name (Signature):
Assistant (Witness)(Signature):

Sample Number	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Type: Water	Soil	Air	Waste	Remarks
1	TB-A 0.5-2.5'	4 1/4 ss	80z	cool	10/12/95			X			
2	TB-A 2.5-4.5'							X			
3	TB-B 2.5-4.5'							X			
4	TB-C 0.5-2.5'							X			
5	TB-C 2.5-4.5'							X			

Relinquished By (Signature): Received By (Signature): Date 10/13/95 Time 3:00
Relinquished By (Signature): Received By (Signature): Date 10/13/95 Time 3:50
Name & Address of Laboratory: CONN Testing Lab. Meriden, CT

LABORATORY SAMPLE PREPARATION REQUIRED
None ☐ Filter ☐ Adjust pH to ____ Priority ☐
Other

ANALYSES REQUIRED

Parameters	Sample Number 1	2	3	4	5
TPH 418.1	X	X	X	X	X
TOC					
TOX					
STD Water					
Total Coliform					
Fluoride					
Chloride					
8010/601					
8015					
8020/602					
8020 + MTBE					
8060					
8100					
6 TCLP Metals					

White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File № 4160

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Phone: 203-793-6899
Fax: 203-793-6871

HRP
CHAIN OF CUSTODY

Sheet 2 of 4
Job Number HOW 0010.P3
Project Manager HSH

Place & Address of Collection: Howe Furniture Norwalk CT
Samplers Name (Signature):
Assistant (Witness)(Signature):

Sample Number	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Type: Water	Soil	Air	Waste	Remarks
6	TB-D 2.5-4.5'	4 1/4 ss	80z	cool	10/12/95			X			
7	TB-E 0.5-2.5'							X			
8	TB-E 2.5-4.5'							X			
9	TB-F 0.5-2.5'							X			
10	TB-F 2.5-4.5'							X			

Relinquished By (Signature): Received By (Signature): Date 10/13/95 Time 3:00
Relinquished By (Signature): Received By (Signature): Date 10/13/95 Time 3:50
Name & Address of Laboratory: CONN Testing Lab. Meriden, CT

LABORATORY SAMPLE PREPARATION REQUIRED
None ☐ Filter ☐ Adjust pH to ____ Priority ☐
Other

ANALYSES REQUIRED

Parameters	Sample Number 6	7	8	9	10
pH					
Ag					
Al					
As					
Ba					
Cd					
CN-A					
CN-T					
Cl-s					
Cr-T					
Cu					
Fe-D					
Hg					
Na					
Ni					
Pb					
Se					
Sp. Cond.					
TDS					
Zn					
Remarks					
TPH 418.1	X	X	X	X	X
TOC					
TOX					
STD Water					
Total Coliform					
Fluoride					
Chloride					
8010/601					
8015					
8020/602					
8020 + MTBE					
8060					
8100					
6 TCLP Metals					

White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File № 4161

HRP Associates, Inc.
67 New Britain Avenue
lainville, CT 06062
hone: 203-793-6899
ax: 203-793-6871

HRP

CHAIN OF CUSTODY

Sheet 3 of 4
Job Number HOW 0010.P2
Project Manager HSH

Samplers Name (Signature)
Assistant (Witness)(Signature)

Sample Number	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Type: Water	Soil	Air	Waste	Remarks
11	TB-G 0.5-2'	glass	80Z	Cool	10/12/95			X			
12	TB-G 2.5-4.5'							X			
13	TB-H 0.5-2'							X			
14	TB-H 2.5-4.5'							X			
15	TB-I 0.5-2'							X			

Relinquished By (Signature)
Received By (Signature) Date 10/13/95 Time 3:00
Relinquished By (Signature)
Received By (Signature) Date 10/13/95 Time 3:50
Name & Address of Laboratory

LABORATORY SAMPLE PREPARATION REQUIRED

None ☐ Filter ☐ Adjust pH to _____ Priority ☐
Other

ANALYSES REQUIRED

Parameters	Sample Number 11	12	13	14	15
TPH 418.1	X	X	X	X	X
TOC					
TOX					
STD Water					
Total Coliform					
Fluoride					
Chloride					
8010/601					
8015					
8020/602					
8020 + MTBE					
8080					
8100					
8 TCLP Metals					

Remarks

White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File

№ 4162

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Phone: 203-793-6899
Fax: 203-793-6871

HRP

CHAIN OF CUSTODY

Sheet 4 of 4
Job Number HOW 0010.P2
Project Manager HSH

Samplers Name (Signature)
Assistant (Witness)(Signature)

Sample Number	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Type: Water	Soil	Air	Waste	Remarks
16	TB-I 2.5-4.5'			Cool	10/12/95			X			
17	TB-J 0.5-2'			"	"			X			
18	TB-J 2.5-4.5'			"	"			X			

Relinquished By (Signature)
Received By (Signature) Date 10/13/95 Time 3:00
Relinquished By (Signature)
Received By (Signature) Date 10/13/95 Time 3:50
Name & Address of Laboratory

LABORATORY SAMPLE PREPARATION REQUIRED

None ☐ Filter ☐ Adjust pH to _____ Priority ☐
Other

ANALYSES REQUIRED

Parameters	Sample Number 16	17	18
pH			
Ag			
Al			
As			
Ba			
Cd			
CN-A			
CN-T			
Cr+6			
Cr-T			
Co			
Fe-D			
Hg			
Ni			
Pb			
Se			
Sp. Cond.			
TDS			
Zn			
TPH 418.1	X	X	X
TOC			
TOX			
STD Water			
Total Coliform			
Fluoride			
Chloride			
8010/601			
8015			
8020/602			
8020 + MTBE			
8080			
8100			
8 TCLP Metals			

Remarks

White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File

№ 4163

December 7, 1995

HRP Associates Inc.
167 New Britain Ave
Plainville, CT 06062

Attn: Ms. Pat Terwilliger

Please find attached laboratory report(s) for the samples submitted on : **December 5, 1995**

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing and or the test results, please have the following information readily available :

LAB No. : 125-028-6P
PO/JOB No. : HOW0010.P2
INVOICE No. : 56031
ORDER No. : 36127
CUSTOMER No.: 350

Please feel free to contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER ■ SOIL ■ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ■ 203/634-3731
165 GRACEY AVENUE ■ MERIDEN, CT ■ 06451

Date Samples Received : 12-5-95

Client Name: **HRP Associates Inc.** CTL Lab No. 125-028-6P
Report Date: 12-7-95 PO/Job No. HOW0010.P2

RESULTS OF ANALYSIS

EPA 418.1

Matrix Type: S

Field ID	CTL#	Oil & Grease (TPH)-ppm
TP-1	15377	40
TP-2	15378	ND<25
TP-3	15379	ND<25
TP-4	15380	ND<25
TP-5	15381	36
TP-6	15382	60

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Phone: 203-793-6899
Fax: 203-793-6871

HRP

CHAIN OF CUSTODY

Sheet 1 of 1
Job Number HOW0010R2
Project Manager HH

Place & Address of Collection: House Furniture, Woodward Ave, Norwalk
Samplers Name (Signature): Howard Hand
Assistant (Witness)(Signature):

Sample Number	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Type: Water	Soil	Air	Waste	Remarks
1	TP-1	Silver	8oz	Cool	12-5-95	2p		X			
2	TP-2	"	"	"	"	"		X			
3	TP-3	"	"	"	"	"		X			
4	TP-4	"	"	"	"	"		X			
5	TP-5	"	"	"	"	"		X			
6	TP-6	"	"	"	"	"		X			

Relinquished By (Signature): Howard Hand — Received By (Signature): M. McMahon — Date 12/5/95 — Time 4:20
Relinquished By (Signature): — Received By (Signature): — Date — Time
Name & Address of Laboratory: CTL

LABORATORY SAMPLE PREPARATION REQUIRED

None ☐ Filter ☐ Adjust pH to ____ Priority ☒ 48 hr
Other PRIORITY - 48 hr

ANALYSES REQUIRED

Parameters	Sample Number	Parameters	Sample Number 1	2	3	4	5	6
pH		TPH 418.1	X	X	X	X	X	X
Ag		TOC						
Al		TOX						
As		STD Water						
Ba		Total Coliform						
Cd		Fluoride						
CN-A		Chloride						
CN-T		8010/601						
Cr^{+6}		8015						
Cr-T		8020/602						
Cu		8020 + MTBE						
Fe-D		8080						
Hg		8100						
Na		8 TCLP Metals						
Ni								
Pb								
Se								
Sp. Cond.								
TDS								
Zn								

Remarks: Priority - 48 hr

White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File Nº 3268

February 1, 1996

HRP Associates Inc.
167 New Britain Ave
Plainville, CT 06062

Attn: Ms. Pat Terwilliger

RECEIVED
FEB - 6 1996
HRP ASSOCIATES, INC.

Please find attached laboratory report(s) for the samples submitted on :
January 24, 1996

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing and or the test results, please have the following information readily available :

LAB No. : 196328
PO/JOB No. : HOW0010.RA
INVOICE No. : 56873
ORDER No. : *36971*
CUSTOMER No.: 350

Please feel free to contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER ■ SOIL ■ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ■ 203/634-3731
165 GRACEY AVENUE ■ MERIDEN, CT ■ 06451

Date Samples Received : 1-24-96

Client Name: **HRP Associates Inc.** CTL Lab No. 196328
Report Date: 2-1-96 PO/Job No. HOW0010.RA

RESULTS OF ANALYSIS

EPA 418.1

Matrix Type	**S**
CTL Sample No.	**682**
Field ID	**S-1**

Oil & Grease (TPH)-ppm | | 280 | | | |

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/*Hydrocarbons*

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

196328

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Phone: 203-793-6899
Fax: 203-793-6871

HRP

CHAIN OF CUSTODY

Sheet 1 of 1
Job Number HOW0010RA
Project Manager HH

Place & Address of Collection: House Furniture, Woodward Ave, Norwalk
Samplers Name (Signature): Howard Hand
Assistant (Witness)(Signature):

Sample Number	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Type: Water	Soil	Air	Waste	Remarks
1	S-1	glass	8oz	Cool	1/24	12N		X			

Relinquished By (Signature): Howard Hand — Received By (Signature): Helen Cotton — Date 1/24/96 — Time 2:00
Relinquished By (Signature): — Received By (Signature): — Date — Time
Name & Address of Laboratory: CTL

LABORATORY SAMPLE PREPARATION REQUIRED

None ☐ Filter ☐ Adjust pH to ____ Priority ☒ 5 day
Other

ANALYSES REQUIRED

Parameters	Sample Number	Parameters	Sample Number 1
pH		TPH 418.1	X
Ag		TOC	
Al		TOX	
As		STD Water	
Ba		Total Coliform	
Cd		Fluoride	
CN-A		Chloride	
CN-T		8010/601	
Cr^{+6}		8015	
Cr-T		8020/602	
Cu		8020 + MTBE	
Fe-D		8080	
Hg		8100	
Na		8 TCLP Metals	
Ni			
Pb			
Se			
Sp. Cond.			
TDS			
Zn			

Remarks:

White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File Nº 3275

August 16, 1995

HRP Associates Inc.
167 New Britain Ave
Plainville, CT 06062

Attn: Ms. Pat Terwilliger

Please find attached laboratory report(s) for the samples submitted on : **August 1, 1995**

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing and or the test results, please have the following information readily available :

LAB No. : 85-080-6
PO/JOB No. : HOW0010.P2
INVOICE No. : 53506
ORDER No. : 33589
CUSTOMER No.: 350

Please feel free to contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER ■ SOIL ■ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ■ 203/634-3731
165 GRACEY AVENUE ■ MERIDEN, CT ■ 06451

Client : HRP Associates, Inc.
Lab No. : 85-080-6
PO No. : HOW0010.P2
Rep. Date: 8/16/95

Date Extracted: 8/14/95
Date Tested : 8/14/95
Analyst : RS

EPA METHOD 601/8010 **Date Samples Rec'd : 8/01/95**

Matrix Type :		S	S	S	S
CTL SAMPLE # :		9971	9972	9973	9974
Field ID :	MDL	B-1MW	B-2MW	B-3MW	B-4MW
Chloromethane	25	BDL	BDL	BDL	BDL
Bromomethane	25	BDL	BDL	BDL	BDL
Vinylchloride	25	BDL	BDL	BDL	BDL
Chloroethane	25	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL
11-Dichloroethylene	25	BDL	BDL	BDL	BDL
11-Dichloroethane	25	BDL	BDL	BDL	BDL
T12-Dichloroethylene	25	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL
12-Dichloroethane	25	BDL	BDL	BDL	BDL
111-Trichloroethane	25	BDL	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL
12-Dichloropropane	25	BDL	BDL	BDL	BDL
T13-Dichloropropylene	25	BDL	BDL	BDL	BDL
Trichloroethylene	25	BDL	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL	BDL
112-Trichloroethane	25	BDL	BDL	BDL	BDL
Cis13-Dichloropropylene	25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL
1122-Tetrachloroethane	25	BDL	BDL	BDL	BDL
Tetrachloroethylene	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
Benzyl Chloride	100	BDL	BDL	BDL	BDL
Bis(2-chlorethoxy)methane	100	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl)eth	100	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL
Chloracetaldehyde	100	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	100	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	BDL
12-Dichlorobenzene	25	BDL	BDL	BDL	BDL
13-Dichlorobenzene	25	BDL	BDL	BDL	BDL
14-Dichlorobenzene	25	BDL	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB

Matrix Type : **W**= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : HRP Associates, Inc.
Lab No. : 85-080-6
PO No. : HOW0010.P2
Rep. Date: 8/16/95

Date Extracted: 8/14/95
Date Tested : 8/14/95
Analyst : RS

EPA METHOD 601/8010 **Date Samples Rec'd : 8/01/95**

Matrix Type :		S	S		
CTL SAMPLE # :		9975	9976		
Field ID :	MDL	B-5MW	B-6MW		
Chloromethane	25	BDL	BDL		
Bromomethane	25	BDL	BDL		
Vinylchloride	25	BDL	BDL		
Chloroethane	25	BDL	BDL		
Methylenechloride	25	BDL	BDL		
Trichlorofluoromethane	25	BDL	BDL		
11-Dichloroethylene	25	BDL	BDL		
11-Dichloroethane	25	BDL	BDL		
T12-Dichloroethylene	25	BDL	BDL		
Chloroform	25	BDL	BDL		
12-Dichloroethane	25	BDL	BDL		
111-Trichloroethane	25	BDL	BDL		
Carbontetrachloride	25	BDL	BDL		
Bromodichloromethane	25	BDL	BDL		
12-Dichloropropane	25	BDL	BDL		
T13-Dichloropropylene	25	BDL	BDL		
Trichloroethylene	25	BDL	BDL		
Dibromochloromethane	25	BDL	BDL		
112-Trichloroethane	25	BDL	BDL		
Cis13-Dichloropropylene	25	BDL	BDL		
2-Chlorethylvinylether	25	BDL	BDL		
Bromoform	25	BDL	BDL		
1122-Tetrachloroethane	25	BDL	BDL		
Tetrachloroethylene	25	BDL	BDL		
Chlorobenzene	25	BDL	BDL		
Benzyl Chloride	100	BDL	BDL		
Bis(2-chlorethoxy)methane	100	BDL	BDL		
Bis(2-chloroisopropyl)eth	100	BDL	BDL		
Bromobenzene	25	BDL	BDL		
Chloracetaldehyde	100	BDL	BDL		
1-Chlorohexane	25	BDL	BDL		
Chloromethyl methyl ether	100	BDL	BDL		
Chlorotoluene	25	BDL	BDL		
Dibromomethane	25	BDL	BDL		
12-Dichlorobenzene	25	BDL	BDL		
13-Dichlorobenzene	25	BDL	BDL		
14-Dichlorobenzene	25	BDL	BDL		
Trichloropropane	25	BDL	BDL		

MDL= Minimum Detectable Level/**BDL**= Below Detection Level/**UNITS**= PPB

Matrix Type : **W**= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : HRP Associates, Inc.
Lab No. : 85-080-6
PO No. : HOW0010.P2
Rep. Date: 8/16/95

Date Extracted: 8/14/95
Date Tested : 8/14/95
Analyst : RS

EPA METHOD 602/8020 **Date Samples Rec'd : 8/01/95**

Matrix Type :		S	S	S	S
CTL SAMPLE # :		9971	9972	9973	9974
Field ID :	MDL	B-1MW	B-2MW	B-3MW	B-4MW
Benzene	25	BDL	BDL	BDL	BDL
Toluene	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
Ethyl Benzene	25	BDL	BDL	BDL	BDL
P & M Xylene	25	BDL	BDL	BDL	BDL
O- Xylene	25	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL	BDL	BDL
Acetone-ppm	0.4	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level/ **BDL** = Below Detection Level/ **UNITS**= **PPB**

Matrix Type: W= Water/Aqueous **S**= Soil/Solid **O**= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : HRP Associates, Inc. Date Extracted: 8/14/95
Lab No. : 85-080-6 Date Tested : 8/14/95
PO No. : HOW0010.P2 Analyst : RS
Rep. Date: 8/16/95

EPA METHOD 602/8020 Date Samples Rec'd : 8/01/95

Matrix Type :		S	S		
CTL Sample #:		9975	9976		
Field ID :		B-5MW	B-6MW		
	MDL				
Benzene	25	BDL	BDL		
Toluene	25	BDL	BDL		
Chlorobenzene	25	BDL	BDL		
Ethyl Benzene	25	BDL	BDL		
P & M Xylene	25	BDL	BDL		
O- Xylene	25	BDL	BDL		
1,4-Dichlorobenzene	25	BDL	BDL		
1,3-Dichlorobenzene	25	BDL	BDL		
1,2-Dichlorobenzene	25	BDL	BDL		
Acetone-ppm	0.4	BDL	BDL		

MDL = Minimum Detectable Level/ **BDL** = Below Detection Level/ **UNITS**= **PPB**

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : HRP Associates, Inc. Date Extracted: 8/14/95
Lab No. : 85-080-6 Date Tested : 8/14/95
PO No. : HOW0010.P2 Analyst : RS
Rep. Date: 8/16/95

EPA METHOD 8015 Date Samples Rec'd : 8/01/95

Matrix Type :		S	S	S	S
CTL SAMPLE # :		9971	9972	9973	9974
Field ID :		B-1MW	B-2MW	B-3MW	B-4MW
	MDL				
Methyl Ethyl Ketone	100	BDL	BDL	BDL	BDL
Methyl Isobutyl Ketone	100	BDL	BDL	BDL	BDL
Acrylamide	100	BDL	BDL	BDL	BDL
Carbon Disulfide	100	BDL	BDL	BDL	BDL
Diethyl Ether	100	BDL	BDL	BDL	BDL
Paraldehyde	100	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Types : W =Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : HRP Associates, Inc. Date Extracted: 8/14/95
Lab No. : 85-080-6 Date Tested : 8/14/95
PO No. : HOW0010.P2 Analyst : RS
Rep. Date: 8/16/95

EPA METHOD 8015 Date Samples Rec'd : 8/01/95

Matrix Type :		S	S		
CTL Sample #:		9975	9976		
Field ID :		B-5MW	B-6MW		
	MDL				
Methyl Ethyl Ketone	100	BDL	BDL		
Methyl Isobutyl Ketone	100	BDL	BDL		
Acrylamide	100	BDL	BDL		
Carbon Disulfide	100	BDL	BDL		
Diethyl Ether	100	BDL	BDL		
Paraldehyde	100	BDL	BDL		

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS** = PPB

Matrix Types : W =Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

August 17, 1995

AUG 21 1995
HRP ASSOCIATES, INC.

HRP Associates Inc.
167 New Britain Ave
Plainville, CT 06062

Attn: Ms. Pat Terwilliger

Please find attached laboratory report(s) for the samples submitted on : August 1, 1995

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing and or the test results, please have the following information readily available :

LAB No. : 85-106-6
PO/JOB No. : HOW0010.P2
INVOICE No. : 53511
ORDER No. : 33594
CUSTOMER No.: 350

Please feel free to contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER ■ SOIL ■ AIR
STEPHEN J. FRANCO
Laboratory Director
PHONE ■ 203/634-3731
165 GRACEY AVENUE ■ MERIDEN, CT ■ 06451

Date Samples Received : 8-1-95

Client Name: **HRP Associates Inc.** CTL Lab No. 85-106-6
Report Date: 8-17-95 PO/Job No. HOW0010.P2

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type	S	S	S	S
CTL Sample No.	9971	9972	9973	9974
Field ID	B-1MW	B-2MW	B-3MW	B-4MW
Arsenic-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/L	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Cadmium-mg/L	ND<0.005	ND<0.005	ND<0.005	ND<0.005
Chromium, Total-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Lead-mg/L	ND<0.010	ND<0.010	ND<0.010	ND<0.010
Mercury-mg/L	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Selenium-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01

Matrix Type	S	S	S	S
CTL Sample No.	9971	9972	9973	9974
Field ID	B-1MW	B-2MW	B-3MW	B-4MW
pH	8.4	8.0	7.9	8.2
Phenols-ppm	ND<2.0	ND<2.0	ND<2.0	ND<2.0
Oil & Grease (TPH)-ppm	3,980	1,320	40	236

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Date Samples Received : 8-1-95

Client Name: **HRP Associates Inc.** CTL Lab No. 85-106-6
Report Date: 8-17-95 PO/Job No. HOW0010.P2

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type	S	S
CTL Sample No.	9975	9976
Field ID	B-5MW	B-6MW
Arsenic-mg/L	ND<0.05	ND<0.05
Barium-mg/L	ND<0.5	ND<0.5
Cadmium-mg/L	ND<0.005	ND<0.005
Chromium, Total-mg/L	ND<0.05	ND<0.05
Lead-mg/L	ND<0.010	ND<0.010
Mercury-mg/L	ND<0.002	ND<0.002
Selenium-mg/L	ND<0.01	ND<0.01
Silver-mg/L	ND<0.01	ND<0.01

Matrix Type	S	S
CTL Sample No.	9975	9976
Field ID	B-5MW	B-6MW
pH	7.9	7.8
Phenols-ppm	ND<2.0	ND<2.0
Oil & Grease (TPH)-ppm	ND<25	ND<25

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Phone: 203-793-6899
Fax: 203-793-6871

HRP

CHAIN OF CUSTODY

Sheet 1 of 2
Job Number HOW 0010.P2
Project Manager HSH

Place & Address of Collection: Howe Furniture Corp. 81 Woodward Ave. Norwalk, CT
Samplers Name (Signature): Paul Ahlgren
Assistant (Witness)(Signature): Teresa P. Chapman

Sample Number	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Type: Water	Soil	Air	Waste	Remarks
1	B-1MW 0.5'-2.5'	g/ss	80z	Cool				X			
2	B-2MW 0.5'-2.5'							X			
3	B-3MW 0.5'-2.5'							X			
4	B-4MW 2.5'-4.5'							X			
5	B-5MW 2.5'-4.5'							X			

Relinquished By (Signature): Paul Ahlgren — Received By (Signature): M. McMahon — Date 8/1/95 — Time 4:00
Relinquished By (Signature): — Received By (Signature): — Date — Time
Name & Address of Laboratory: Connecticut Testing Meriden, CT

LABORATORY SAMPLE PREPARATION REQUIRED

None ☐ Filter ☐ Adjust pH to _____ Priority ☐
Other

ANALYSES REQUIRED

Parameters	Sample Number					Parameters	Sample Number				
pH	X	X	X	X	X	TPH 418.1	X	X	X	X	X
Ag						TOC					
Al						TOX					
As						STD Water					
Ba						Total Coliform					
Cd						Fluoride					
CN-A						Chloride					
CN-T						8010/601	X	X	X	X	X
Cr						8015	X	X	X	X	X
Cr-T						8020/602	X	X	X	X	X
Cu						8020 + MTBE					
Fe-D						8080					
Hg						8100					
Ni						8 RCP Metals SPLP	X	X	X	X	X
Pb						Acetone	X	X	X	X	X
Se						Phenols (wet chem)	X	X	X	X	X
Sp. Cond.						Formaldehyde(s)	X	X	X	X	X
TDS											
Zn											

Remarks: Phenols Via wet Chemical 4-AAP
Formaldehyde GC method

White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File

№ 3783

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Phone: 203-793-6899
Fax: 203-793-6871

HRP

CHAIN OF CUSTODY

Sheet 2 of 2
Job Number HOW 0010.P2
Project Manager HSH

Place & Address of Collection: Howe Furniture Corp. 81 Woodward Ave. Norwalk, CT
Samplers Name (Signature): Paul Ahlgren
Assistant (Witness)(Signature): Teresa P. Chapman

Sample Number	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Type: Water	Soil	Air	Waste	Remarks
6	B-6 2.5'-4.5'	g/ss	80z	Cool				X			
7								X			
								X			
								X			
								X			

Relinquished By (Signature): Paul Ahlgren — Received By (Signature): M. McMahon — Date 8/1/95 — Time 4:00
Relinquished By (Signature): — Received By (Signature): — Date — Time
Name & Address of Laboratory: Connecticut Testing Meriden, CT

LABORATORY SAMPLE PREPARATION REQUIRED

None ☐ Filter ☐ Adjust pH to _____ Priority ☐
Other

ANALYSES REQUIRED

Parameters	Sample Number	Parameters	Sample Number
pH	X	TPH 418.1	X
Ag		TOC	
Al		TOX	
As		STD Water	
Ba		Total Coliform	
Cd		Fluoride	
CN-A		Chloride	
CN-T		8010/601	X
Cr		8015	X
Cr-T		8020/602	X
Cu		8020 + MTBE	
Fe-D		8080	
Hg		8100	
Ni		8 RCP Metals SPLP	X
Pb		Acetone	X
Se		Phenol	X
Sp. Cond.		Formaldehyde	X
TDS			
Zn			

Remarks:

White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File

№ 3784

ATTACHMENT A

DECEMBER 21, 1995, SOIL SAMPLING RESULTS FOR AOC-5
LAB NO. 125-404-2

e\rdm\how-1 trc.ltr

HRP
ASSOCIATES INC

January 5, 1996

RECEIVED
JAN 15 1996

HRP Associates Inc.
167 New Britain Ave
Plainville, CT 06062

Attn: Ms. Pat Terwilliger

Please find attached laboratory report(s) for the samples submitted on : **December 21, 1995**

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing and or the test results, please have the following information readily available :

LAB No. : 125-404-2
PO/JOB No. : HOW0011.RC
INVOICE No. : 56509
ORDER No. : 36607
CUSTOMER No. : 350

Please feel free to contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER ■ SOIL ■ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ■ 203/634-3731
165 GRACEY AVENUE ■ MERIDEN, CT ■ 06451

Date Samples Received : 12-21-95

Client Name: **HRP Associates Inc.** CTL Lab No. 125-404-2
Report Date: 1-5-96 PO/Job No. HOW0011.RC

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type	S	S		
CTL Sample No.	16014	16015		
Field ID	S-1	S-2		
Silver-mg/L	ND<0.01	ND<0.01		
Cadmium-mg/L	0.033	ND<0.005		
Copper-mg/L	0.07	0.01		
Nickel-mg/L	ND<0.05	ND<0.05		
Lead-mg/L	ND<0.010	ND<0.010		
Zinc-mg/L	0.47	ND<0.05		

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Phone: 203-793-6899
Fax: 203-793-6871

HRP

CHAIN OF CUSTODY

Sheet 1 of 1
Job Number HOW0011.RC
Project Manager RDM

Place & Address of Collection: HOUSE FOUNDATION NORWALK CONNECTICUT
Samplers Name (Signature): [signature]
Assistant (Witness)(Signature): [signature]

Sample Number	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Type: Water	Soil	Air	Waste	Remarks
S-1	AOC 5'	Glass	80Z	cool	12/21/95	12 PM		X			
S-2	AOC 5'	Glass	80Z	cool	12/21/95	12 PM		X			

Relinquished By (Signature): [signature] Received By (Signature): N.M.Callahan Date 12/21/95 Time 2:10
Relinquished By (Signature): Received By (Signature): Date Time
Name & Address of Laboratory: CTL-MERIDEN

LABORATORY SAMPLE PREPARATION REQUIRED

None ☐ Filter ☐ Adjust pH to _____ Priority ☐
Other

ANALYSES REQUIRED

Parameters	Sample Number S-1	Sample Number S-2	Parameters	Sample Number				
pH			TPH 418.1					
Ag	✓	✓	TOC					
Al			TOX					
As			STD Water					
Ba			Total Coliform					
Cd	✓	✓	Fluoride					
CN-A			Chloride					
CN-T			8010/601					
Cr^{+6}			8015					
Cr-T			8020/602					
Cu	✓	✓	8020 + MTBE					
Fe-D			8080					
Hg			8100					
Na			8 TCLP Metals					
Ni	✓	✓						
Pb	✓	✓						
Se								
Sp. Cond.								
TDS								
Zn	✓	✓						

Remarks: METALS by SPLP

White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File

№ 4320

November 2, 1995

HRP Associates Inc.
167 New Britain Ave
Plainville, CT 06062

Attn: Ms. Pat Terwilliger

RECEIVED
NOV - 6 1995
HRP ASSOCIATES, INC.

Please find attached laboratory report(s) for the samples submitted on :
October 18, 1995

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing and or the test results, please have the following information readily available :

LAB No. : 105-393-19
PO/JOB No. : HOW0011.RC
INVOICE No. : 55258
ORDER No. : 35351
CUSTOMER No.: 350

Please feel free to contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER ◘ SOIL ◘ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ◘ 203/634-3731
165 GRACEY AVENUE ◘ MERIDEN, CT ◘ 06451

Date Samples Received : 10-18-95

Client Name: **HRP Associates Inc.** CTL Lab No. 105-393-19
Report Date: 11-2-95 PO/Job No. HOW0011.RC

RESULTS OF ANALYSIS

TCLP EPA 1311

Matrix Type	S	S	S	S
CTL Sample No.	13522	13523	13524	13525
Field ID	AOC25	AOC2N	AOC2 Soil	AOC5 Soil
Arsenic-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/L	ND<0.5	ND<0.5	1.0	ND<0.5
Cadmium-mg/L	ND<0.005	ND<0.005	ND<0.005	0.206
Chromium, Total-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Lead-mg/L	ND<0.010	0.032	ND<0.010	0.013
Mercury-mg/L	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Selenium-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/L	ND<0.01	ND<0.01	ND<0.01	0.03
Copper-mg/L	0.03	0.09	0.52	0.86
Nickel-mg/L	ND<0.05	ND<0.05	0.17	0.24
Zinc-mg/L	ND<0.05	0.16	0.65	3.04

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

Date Samples Received : 10-18-95

Client Name: **HRP Associates Inc.** CTL Lab No. 105-393-19
Report Date: 11-2-95 PO/Job No. HOW0011.RC

RESULTS OF ANALYSIS

TCLP EPA 1311

Matrix Type	S	S	S	S
CTL Sample No.	13526	13527	13528	13529
Field ID	AOC5M	AOC5N	AOC5S	AOC6
Arsenic-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/L	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Cadmium-mg/L	0.014	0.017	ND<0.005	0.015
Chromium, Total-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Lead-mg/L	ND<0.010	ND<0.010	ND<0.010	ND<0.010
Mercury-mg/L	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Selenium-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Copper-mg/L	0.09	0.38	0.09	0.04
Nickel-mg/L	ND<0.05	ND<0.05	ND<0.05	0.09
Zinc-mg/L	0.25	0.40	0.30	0.08

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

Date Samples Received : 10-18-95

Client Name: **HRP Associates Inc.** CTL Lab No. 105-393-19
Report Date: 11-2-95 PO/Job No. HOW0011.RC

RESULTS OF ANALYSIS

TCLP EPA 1311

Matrix Type	S	S	S	S
CTL Sample No.	13530	13531	13532	13533
Field ID	AOC7 Soil	AOC7W	AOC7E	AOC8N
Arsenic-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/L	0.5	ND<0.5	0.5	ND<0.5
Cadmium-mg/L	0.071	0.008	0.006	ND<0.005
Chromium, Total-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Lead-mg/L	ND<0.010	ND<0.010	ND<0.010	ND<0.010
Mercury-mg/L	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Selenium-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Copper-mg/L	0.17	0.03	0.02	0.03
Nickel-mg/L	0.11	ND<0.05	ND<0.05	ND<0.05
Zinc-mg/L	0.42	0.59	0.13	ND<0.05

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

Date Samples Received : 10-18-95

Client Name: **HRP Associates Inc.** CTL Lab No. 105-393-19
Report Date: 11-2-95 PO/Job No. HOW0011.RC

RESULTS OF ANALYSIS

TCLP EPA 1311

Matrix Type	S	S	S	S
CTL Sample No.	13534	13535	13536	13537
Field ID	AOC8S	AOC9	AOC10E	AOC10W
Arsenic-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/L	0.6	1.0	1.0	0.7
Cadmium-mg/L	ND<0.005	ND<0.005	0.012	0.013
Chromium, Total-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Lead-mg/L	ND<0.010	ND<0.010	ND<0.010	ND<0.010
Mercury-mg/L	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Selenium-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Copper-mg/L	0.02	0.04	0.09	0.03
Nickel-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Zinc-mg/L	0.58	0.43	3.09	1.37

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : HRP Associates Inc. Date Analyzed : 10/25-26/95
Lab No. : 105-362-16 Date Extracted : 10-25-95
PO No. : HOW0011.RC Analyst : YK
Rep. Date : 10-31-95

EPA METHOD 8240 GC/MS Date Samples Rec'd: 10-18-95

Matrix Type :		S			
CTL SAMPLE # :		13533			
Field ID :		AOC8N			
	MDL				
Dichlorodifluoromethane	10	BDL			
Chloromethane	10	BDL			
Vinyl Chloride	10	BDL			
Chloroethane	*10*	*BDL*			
Bromomethane	10	BDL			
Trichlorofluoromethane	10	BDL			
Acrolein	10	BDL			
1,1-Dichloroethylene	10	BDL			
Iodomethane	10	BDL			
Allyl Chloride	10	BDL			
Acrylonitrile	10	BDL			
Methylene Chloride	10	BDL			
trans-1,2-Dichloroethylene	10	BDL			
1,1-Dichloroethane	10	BDL			
2-Butanone(MEK)	10	BDL			
cis-1,2-Dichloroethylene	10	BDL			
Chloroform	10	BDL			
Methacrylonitrile	10	BDL			
Propionitrile	10	BDL			
1,1,1-Trichloroethane	10	BDL			
Carbontetrachloride	10	BDL			
Benzene	10	BDL			
1,2-Dichloroethane	10	BDL			
Trichloroethylene	10	BDL			
1,2-Dichloropropane	10	BDL			
Methyl Methacrylate	10	BDL			
Bromodichloromethane	10	BDL			
Dibromomethane	10	BDL			
2-Chlorethylvinylether	10	BDL			
4-Methyl-2-pentanone(MIBK)	10	BDL			
cis-1,3-Dichloropropylene	10	BDL			
Toluene	10	BDL			
trans-1,3Dichloropropylene	10	BDL			
2-Hexanone(MBK)	10	BDL			
Ethyl Methacrylate	10	BDL			

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS**= PPB

Matrix Type: W= Water/Aqueous **S**=Soil/Solid **O**= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : HRP Associates Inc. Date Analyzed : 10/25-26/95
Lab No. : 105-362-16 Date Extracted : 10-25-95
PO No. : HOW0011.RC Analyst : YK
Rep. Date : 10-31-95

EPA METHOD 8240 GC/MS Date Samples Rec'd: 10-18-95

Matrix Type :		S			
CTL SAMPLE # :		13533			
Field ID :		AOC8N			
	MDL				
1,1,2-Trichloroethane	10	BDL			
Tetrachloroethylene	10	BDL			
Dibromochloromethane	10	BDL			
1,2-Dibromoethane(EDB)	10	BDL			
Chlorobenzene	10	BDL			
1,1,1,2-Tetrachloroethane	10	BDL			
Ethylbenzene	10	BDL			
P/M Xylenes	10	BDL			
O Xylene	10	BDL			
Styrene	10	BDL			
Bromoform	*10*	*BDL*			
1,1,2,2-Tetrachloroethane	10	BDL			
1,2,3-Trichloropropane	10	BDL			
1,4-Dichloro-2-butene	10	BDL			
Pentachloroethane	10	BDL			
Benzyl Chloride	10	BDL			
DBCP	10	BDL			

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS**= PPB

Matrix Type: W= Water/Aqueous **S**=Soil/Solid **O**= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : HRP Associates Inc. Date Analyzed : 10/25-26/95
Lab No. : 105-362-16 Date Extracted : 10-25-95
PO No. : HOW0011.RC Analyst : YK
Rep. Date : 10-31-95

EPA METHOD 8240 GC/MS Date Samples Rec'd: 10-18-95

Matrix Type :		S	S	S	S
CTL SAMPLE # :		13534	13535	13536	13537
Field ID :		AOC8S	AOC9	AOC10E	AOC10W
	MDL				
Dichlorodifluoromethane	10	BDL	BDL	BDL	BDL
Chloromethane	10	BDL	BDL	BDL	BDL
Vinyl Chloride	10	BDL	BDL	BDL	BDL
Chloroethane	10	BDL	BDL	BDL	BDL
Bromomethane	10	BDL	BDL	BDL	BDL
Trichlorofluoromethane	10	BDL	BDL	BDL	BDL
Acrolein	10	BDL	BDL	BDL	BDL
1,1-Dichloroethylene	10	BDL	BDL	BDL	BDL
Iodomethane	10	BDL	BDL	BDL	BDL
Allyl Chloride	10	BDL	BDL	BDL	BDL
Acrylonitrile	10	BDL	BDL	BDL	BDL
Methylene Chloride	10	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethylene	10	BDL	BDL	BDL	BDL
1,1-Dichloroethane	10	BDL	BDL	BDL	BDL
2-Butanone(MEK)	10	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethylene	10	BDL	BDL	BDL	BDL
Chloroform	10	BDL	BDL	BDL	BDL
Methacrylonitrile	10	BDL	BDL	BDL	BDL
Propionitrile	10	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	10	BDL	BDL	BDL	BDL
Carbontetrachloride	10	BDL	BDL	BDL	BDL
Benzene	10	BDL	BDL	BDL	BDL
1,2-Dichloroethane	10	BDL	BDL	BDL	BDL
Trichloroethylene	10	BDL	BDL	BDL	BDL
1,2-Dichloropropane	10	BDL	BDL	BDL	BDL
Methyl Methacrylate	10	BDL	BDL	BDL	BDL
Bromodichloromethane	10	BDL	BDL	BDL	BDL
Dibromomethane	10	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	10	BDL	BDL	BDL	BDL
4-Methyl-2-pentanone(MIBK)	10	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropylene	*10*	*BDL*	*BDL*	*BDL*	*BDL*
Toluene	10	BDL	BDL	BDL	BDL
trans-1,3Dichloropropylene	10	BDL	BDL	BDL	BDL
2-Hexanone(MBK)	10	BDL	BDL	BDL	BDL
Ethyl Methacrylate	10	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS**= PPB

Matrix Type: W= Water/Aqueous **S**=Soil/Solid **O**= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: HRP Associates Inc.	Date Analyzed	: 10/25-26/95
Lab No.	: 105-362-16	Date Extracted	: 10-25-95
PO No.	: HOW0011.RC	Analyst	: YK
Rep. Date	: 10-31-95		

EPA METHOD 8240 GC/MS Date Samples Rec'd: 10-18-95

Matrix Type :		S	S	S	S
CTL SAMPLE # :		13534	13535	13536	13537
Field ID :		AOC8S	AOC9	AOC10E	AOC10W
	MDL				
1,1,2-Trichloroethane	10	BDL	BDL	BDL	BDL
Tetrachloroethylene	10	BDL	BDL	BDL	BDL
Dibromochloromethane	10	BDL	BDL	BDL	BDL
1,2-Dibromoethane(EDB)	10	BDL	BDL	BDL	BDL
Chlorobenzene	10	BDL	BDL	BDL	BDL
1,1,1,2-Tetrachloroethane	10	BDL	BDL	BDL	BDL
Ethylbenzene	10	BDL	BDL	BDL	BDL
P/M Xylenes	10	BDL	BDL	BDL	BDL
O Xylene	10	BDL	BDL	BDL	BDL
Styrene	10	BDL	BDL	BDL	BDL
Bromoform	10	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	10	BDL	BDL	BDL	BDL
1,2,3-Trichloropropane	10	BDL	BDL	BDL	BDL
1,4-Dichloro-2-butene	10	BDL	BDL	BDL	BDL
Pentachloroethane	10	BDL	BDL	BDL	BDL
Benzyl Chloride	10	BDL	BDL	BDL	BDL
DBCP	10	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS**= PPB

Matrix Type: W= Water/Aqueous **S**=Soil/Solid **O**= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: HRP Associates Inc.	Date Analyzed	: 10/25-26/95
Lab No.	: 105-362-16	Date Extracted	: 10-25-95
PO No.	: HOW0011.RC	Analyst	: YK
Rep. Date	: 10-31-95		

EPA METHOD 8240 GC/MS Date Samples Rec'd: 10-18-95

Matrix Type :		S	S	S
CTL SAMPLE # :		13538	13539	13540
Field ID :		AOC10 Soil	AOC11E	AOC11S
	MDL			
Dichlorodifluoromethane	10	BDL	BDL	BDL
Chloromethane	10	BDL	BDL	BDL
Vinyl Chloride	10	BDL	BDL	BDL
Chloroethane	10	BDL	BDL	BDL
Bromomethane	10	BDL	BDL	BDL
Trichlorofluoromethane	10	BDL	BDL	BDL
Acrolein	10	BDL	BDL	BDL
1,1-Dichloroethylene	10	BDL	BDL	BDL
Iodomethane	10	BDL	BDL	BDL
Allyl Chloride	10	BDL	BDL	BDL
Acrylonitrile	10	BDL	BDL	BDL
Methylene Chloride	10	BDL	BDL	BDL
trans-1,2-Dichloroethylene	10	BDL	BDL	BDL
1,1-Dichloroethane	10	BDL	BDL	BDL
2-Butanone(MEK)	10	BDL	BDL	BDL
cis-1,2-Dichloroethylene	10	BDL	BDL	BDL
Chloroform	10	BDL	BDL	BDL
Methacrylonitrile	10	BDL	BDL	BDL
Propionitrile	10	BDL	BDL	BDL
1,1,1-Trichloroethane	10	BDL	BDL	BDL
Carbontetrachloride	10	BDL	BDL	BDL
Benzene	10	BDL	BDL	BDL
1,2-Dichloroethane	10	BDL	BDL	BDL
Trichloroethylene	10	BDL	BDL	BDL
1,2-Dichloropropane	10	BDL	BDL	BDL
Methyl Methacrylate	10	BDL	BDL	BDL
Bromodichloromethane	10	BDL	BDL	BDL
Dibromomethane	10	BDL	BDL	BDL
2-Chlorethylvinylether	10	BDL	BDL	BDL
4-Methyl-2-pentanone(MIBK)	10	BDL	BDL	178.0
cis-1,3-Dichloropropylene	10	BDL	BDL	BDL
Toluene	10	BDL	BDL	BDL
trans-1,3Dichloropropylene	10	BDL	BDL	BDL
2-Hexanone(MBK)	10	BDL	BDL	BDL
Ethyl Methacrylate	10	BDL	BDL	BDL

***MDL** = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS**= PPB*

Matrix Type: W= Water/Aqueous **S**=Soil/Solid **O**= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: HRP Associates Inc.	Date Analyzed	: 10/25-26/95
Lab No.	: 105-362-16	Date Extracted	: 10-25-95
PO No.	: HOW0011.RC	Analyst	: YK
Rep. Date	: 10-31-95		

EPA METHOD 8240 GC/MS Date Samples Rec'd: 10-18-95

Matrix Type :		S	S	S
CTL SAMPLE # :		13538	13539	13540
Field ID :		AOC10 Soil	AOC11E	AOC11S
	MDL			
1,1,2-Trichloroethane	10	BDL	BDL	BDL
Tetrachloroethylene	10	BDL	BDL	BDL
Dibromochloromethane	10	BDL	BDL	BDL
1,2-Dibromoethane(EDB)	10	BDL	BDL	BDL
Chlorobenzene	10	BDL	BDL	BDL
1,1,1,2-Tetrachloroethane	10	BDL	BDL	BDL
Ethylbenzene	10	BDL	BDL	BDL
P/M Xylenes	10	BDL	BDL	BDL
O Xylene	10	BDL	BDL	BDL
Styrene	10	BDL	BDL	BDL
Bromoform	10	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	10	BDL	BDL	BDL
1,2,3-Trichloropropane	10	BDL	BDL	BDL
1,4-Dichloro-2-butene	10	BDL	BDL	BDL
Pentachloroethane	10	BDL	BDL	BDL
Benzyl Chloride	10	BDL	BDL	BDL
DBCP	10	BDL	BDL	BDL

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS**= PPB

Matrix Type: W= Water/Aqueous **S**=Soil/Solid **O**= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

October 31, 1995

RECEIVED
NOV - 6 1995
HRP ASSOCIATES, INC.

HRP Associates Inc.
167 New Britain Ave
Plainville, CT 06062

Attn: Ms. Pat Terwilliger

Please find attached laboratory report(s) for the samples submitted on : **October 18, 1995**

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing and or the test results, please have the following information readily available :

LAB No. : 105-362-16
PO/JOB No. : HOW0011.RC
INVOICE No. : 55221
ORDER No. : 35314
CUSTOMER No. : *350*

Please feel free to contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER ■ SOIL ■ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ■ 203/634-3731
165 GRACEY AVENUE ■ MERIDEN, CT ■ 06451

Client	: HRP Associates Inc.	Date Analyzed	: 10/25-26/95
Lab No.	: 105-362-16	Date Extracted	: 10-25-95
PO No.	: HOW0011.RC	Analyst	: YK
Rep. Date	: 10-31-95		

EPA METHOD 8240 GC/MS Date Samples Rec'd: 10-18-95

Matrix Type :		S	S	S	S
CTL SAMPLE # :		*13522*	*13523*	*13524*	*13525*
Field ID :		AOC2S	AOC2N	AOC2Soil	AOC5Soil
	MDL				
Dichlorodifluoromethane	10	BDL	BDL	BDL	BDL
Chloromethane	10	BDL	BDL	BDL	BDL
Vinyl Chloride	10	BDL	BDL	BDL	BDL
Chloroethane	10	BDL	BDL	BDL	BDL
Bromomethane	10	BDL	BDL	BDL	BDL
Trichlorofluoromethane	10	BDL	BDL	BDL	BDL
Acrolein	10	BDL	BDL	BDL	BDL
1,1-Dichloroethylene	10	BDL	BDL	BDL	BDL
Iodomethane	10	BDL	BDL	BDL	BDL
Allyl Chloride	10	BDL	BDL	BDL	BDL
Acrylonitrile	*10*	*BDL*	*BDL*	*BDL*	*BDL*
Methylene Chloride	10	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethylene	10	BDL	BDL	BDL	BDL
1,1-Dichloroethane	10	BDL	BDL	BDL	BDL
2-Butanone(MEK)	10	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethylene	10	BDL	BDL	BDL	BDL
Chloroform	10	BDL	BDL	BDL	BDL
Methacrylonitrile	10	BDL	BDL	BDL	BDL
Propionitrile	10	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	10	BDL	BDL	BDL	BDL
Carbontetrachloride	10	BDL	BDL	BDL	BDL
Benzene	10	BDL	BDL	BDL	BDL
1,2-Dichloroethane	10	BDL	BDL	BDL	BDL
Trichloroethylene	10	BDL	BDL	BDL	BDL
1,2-Dichloropropane	10	BDL	BDL	BDL	BDL
Methyl Methacrylate	10	BDL	BDL	BDL	BDL
Bromodichloromethane	10	BDL	BDL	BDL	BDL
Dibromomethane	10	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	10	BDL	BDL	BDL	BDL
4-Methyl-2-pentanone(MIBK)	10	977.0	BDL	BDL	BDL
cis-1,3-Dichloropropylene	10	BDL	BDL	BDL	BDL
Toluene	10	2,157.0	BDL	BDL	BDL
trans-1,3Dichloropropylene	10	BDL	BDL	BDL	BDL
2-Hexanone(MBK)	10	BDL	BDL	BDL	BDL
Ethyl Methacrylate	10	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS**= PPB

Matrix Type: W= Water/Aqueous S=Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: HRP Associates Inc.	Date Analyzed	: 10/25-26/95
Lab No.	: 105-362-16	Date Extracted	: 10-25-95
PO No.	: HOW0011.RC	Analyst	: YK
Rep. Date	: 10-31-95		

EPA METHOD 8240 GC/MS Date Samples Rec'd: 10-18-95

Matrix Type :		S	S	S	S
CTL SAMPLE # :		13522	13523	13524	13525
Field ID :		AOC2S	AOC2N	AOC2Soil	AOC5Soil
	MDL				
1,1,2-Trichloroethane	10	BDL	BDL	BDL	BDL
Tetrachloroethylene	10	BDL	BDL	BDL	BDL
Dibromochloromethane	10	BDL	BDL	BDL	BDL
1,2-Dibromoethane(EDB)	10	BDL	BDL	BDL	BDL
Chlorobenzene	10	BDL	BDL	BDL	BDL
1,1,1,2-Tetrachloroethane	10	BDL	BDL	BDL	BDL
Ethylbenzene	10	17.0	BDL	BDL	BDL
P/M Xylenes	10	35.0	BDL	BDL	BDL
O Xylene	10	81.0	BDL	BDL	BDL
Styrene	10	BDL	BDL	BDL	BDL
Bromoform	10	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	10	BDL	BDL	BDL	BDL
1,2,3-Trichloropropane	10	BDL	BDL	BDL	BDL
1,4-Dichloro-2-butene	10	BDL	BDL	BDL	BDL
Pentachloroethane	10	BDL	BDL	BDL	BDL
Benzyl Chloride	10	BDL	BDL	BDL	BDL
DBCP	10	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS**= PPB

Matrix Type: W= Water/Aqueous S=Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: HRP Associates Inc.	Date Analyzed	: 10/25-26/95
Lab No.	: 105-362-16	Date Extracted	: 10-25-95
PO No.	: HOW0011.RC	Analyst	: YK
Rep. Date	: 10-31-95		

EPA METHOD 8240 GC/MS Date Samples Rec'd: 10-18-95

Matrix Type :		S	S	S	S
CTL SAMPLE # :		13526	13527	13528	13529
Field ID :		AOC5M	AOC5N	AOC5S	AOC6
	MDL				
Dichlorodifluoromethane	10	BDL	BDL	BDL	BDL
Chloromethane	10	BDL	BDL	BDL	BDL
Vinyl Chloride	10	BDL	BDL	BDL	BDL
Chloroethane	10	BDL	BDL	BDL	BDL
Bromomethane	10	BDL	BDL	BDL	BDL
Trichlorofluoromethane	10	BDL	BDL	BDL	BDL
Acrolein	10	BDL	BDL	BDL	BDL
1,1-Dichloroethylene	10	BDL	BDL	BDL	BDL
Iodomethane	10	BDL	BDL	BDL	BDL
Allyl Chloride	10	BDL	BDL	BDL	BDL
Acrylonitrile	10	BDL	BDL	BDL	BDL
Methylene Chloride	10	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethylene	10	BDL	BDL	BDL	BDL
1,1-Dichloroethane	10	BDL	BDL	BDL	BDL
2-Butanone(MEK)	10	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethylene	10	BDL	BDL	BDL	BDL
Chloroform	10	BDL	BDL	BDL	BDL
Methacrylonitrile	10	BDL	BDL	BDL	BDL
Propionitrile	10	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	10	BDL	BDL	BDL	BDL
Carbontetrachloride	10	BDL	BDL	BDL	BDL
Benzene	10	BDL	BDL	BDL	BDL
1,2-Dichloroethane	10	BDL	BDL	BDL	BDL
Trichloroethylene	10	BDL	BDL	BDL	BDL
1,2-Dichloropropane	10	BDL	BDL	BDL	BDL
Methyl Methacrylate	10	BDL	BDL	BDL	BDL
Bromodichloromethane	10	BDL	BDL	BDL	BDL
Dibromomethane	10	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	10	BDL	BDL	BDL	BDL
4-Methyl-2-pentanone(MIBK)	10	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropylene	10	BDL	BDL	BDL	BDL
Toluene	10	BDL	BDL	BDL	BDL
trans-1,3Dichloropropylene	10	BDL	BDL	BDL	BDL
2-Hexanone(MBK)	10	BDL	BDL	BDL	BDL
Ethyl Methacrylate	10	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS**= PPB

Matrix Type: W= Water/Aqueous S=Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: HRP Associates Inc.	Date Analyzed	: 10/25-26/95
Lab No.	: 105-362-16	Date Extracted	: 10-25-95
PO No.	: HOW0011.RC	Analyst	: YK
Rep. Date	: 10-31-95		

EPA METHOD 8240 GC/MS Date Samples Rec'd: 10-18-95

Matrix Type :		S	S	S	S
CTL SAMPLE # :		*13526*	*13527*	*13528*	*13529*
Field ID :		AOC5M	AOC5N	AOC5S	AOC6
	MDL				
1,1,2-Trichloroethane	10	BDL	BDL	BDL	BDL
Tetrachloroethylene	10	BDL	BDL	BDL	BDL
Dibromochloromethane	10	BDL	BDL	BDL	BDL
1,2-Dibromoethane(EDB)	10	BDL	BDL	BDL	BDL
Chlorobenzene	10	BDL	BDL	BDL	BDL
1,1,1,2-Tetrachloroethane	10	BDL	BDL	BDL	BDL
Ethylbenzene	10	BDL	BDL	BDL	BDL
P/M Xylenes	10	BDL	BDL	BDL	BDL
O Xylene	10	BDL	BDL	BDL	BDL
Styrene	10	BDL	BDL	BDL	BDL
Bromoform	10	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	*10*	*BDL*	*BDL*	*BDL*	*BDL*
1,2,3-Trichloropropane	10	BDL	BDL	BDL	BDL
1,4-Dichloro-2-butene	10	BDL	BDL	BDL	BDL
Pentachloroethane	10	BDL	BDL	BDL	BDL
Benzyl Chloride	10	BDL	BDL	BDL	BDL
DBCP	10	BDL	BDL	BDL	BDL

MDL = Minimum Detectable Level/**BDL** = Below Detection Level/**UNITS**= PPB

Matrix Type: W= Water/Aqueous S=Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Phone: 203-793-6899
Fax: 203-793-6871

HRP

CHAIN OF CUSTODY

Sheet 1 of 4
Job Number Howe0011.RC
Project Manager RDM

Place & Address of Collection: Howe Furniture, Norwalk CT
Samplers Name (Signature): Teresa P. Clayton
Assistant (Witness)(Signature):

Sample Number	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Type: Water	Soil	Air	Waste	Remarks
1	AOC 2S	Glass	8oz	Cool	10/16/95			X			Comp
2	AOC 2N							X			
3	AOC 2Soil							X			
4	AOC 5Soil							X			
5	AOC 5M							X			

Relinquished By (Signature): Teresa P. Clayton
Received By (Signature): Marlene Rowland Date 10/18/95 Time 5:00
Relinquished By (Signature):
Received By (Signature): Date Time
Name & Address of Laboratory: CTL Meriden CT

LABORATORY SAMPLE PREPARATION REQUIRED

None ☐ Filter ☐ Adjust pH to ____ Priority ☐
Other

ANALYSES REQUIRED

Parameters	Sample Number 1	2	3	4	5
pH					
Ag					
Al					
As					
Ba					
Cd					
CN-A					
CN-T					
Cr+6					
Cr-T					
Cu	X	X	X	X	X
Fe-D					
Hg					
Na					
Ni	X	X	X	X	X
Pb					
Se					
Sp. Cond.					
TDS					
Zn	X	X	X	X	X

Parameters	Sample Number 1	2	3	4	5
TPH 418.1					
TOC					
TOX					
STD Water					
Total Coliform					
Fluoride					
Chloride					
8010/601					
8015					
8020/602					
8020 + MTBE					
8080					
8100					
8 TCLP Metals	X	X	X	X	X
EPA 8240	X	X	X	X	X

Remarks: TCLP

White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File

№ 3262

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Phone: 203-793-6899
Fax: 203-793-6871

HRP

CHAIN OF CUSTODY

Sheet 2 of 4
Job Number HOW-0011.RC
Project Manager RDM

Place & Address of Collection: Howe Furniture, Norwalk, CT
Samplers Name (Signature): Teresa P. Clayton
Assistant (Witness)(Signature):

Sample Number	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Type: Water	Soil	Air	Waste	Remarks
6	AOC 5N	Glass	8oz	cool	10/18/95	PM		X			
7	AOC 5S							X			
8	AOC 6							X			
9	AOC 7Soil							X			
10	AOC 7W							X			

Relinquished By (Signature): Teresa P. Clayton
Received By (Signature): Marlene Rowland Date 10/18/95 Time 5:00
Relinquished By (Signature):
Received By (Signature): Date Time
Name & Address of Laboratory: CTL-Meriden CTL Lab Meriden, CT

LABORATORY SAMPLE PREPARATION REQUIRED

None ☐ Filter ☐ Adjust pH to ____ Priority ☐
Other

ANALYSES REQUIRED

Parameters	Sample Number 6	7	8	9	10
pH					
Ag					
Al					
As					
Ba					
Cd					
CN-A					
CN-T					
Cr+6					
Cr-T					
Cu	X	"	"	"	—
Fe-D					
Hg					
Na					
Ni	X	"	"	"	"
Pb					
Se					
Sp. Cond.					
TDS					
Zn	X	"	"	"	—

Parameters	Sample Number 6	7	8	9	10
TPH 418.1					
TOC					
TOX					
STD Water					
Total Coliform					
Fluoride					
Chloride					
8010/601					
8015					
8020/602					
8020 + MTBE					
8080					
8100					
8 TCLP Metals	X	X	X	X	X
8240	X	X	X		

Remarks: TCLP

White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File

№ 3263

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Phone: 203-793-6899
Fax: 203-793-6871

HRP

CHAIN OF CUSTODY

Sheet 3 of 4
Job Number How-0011.RC
Project Manager RDM

Place & Address of Collection: Howe Furniture, Norwalk CT
Samplers Name (Signature):
Assistant (Witness)(Signature):

Sample Number	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Type: Water	Soil	Air	Waste	Remarks
11	AOC 7E	Glass	8oz	Cool	10/18/95	PM		X			
12	AOC 8N							X			
13	AOC 8S							X			
14	AOC 9							X			
15	AOC 10E							X			

Relinquished By (Signature):
Received By (Signature): Marlene Rowland Date 10/18/95 Time 5:00
Relinquished By (Signature):
Received By (Signature): Date Time
Name & Address of Laboratory: CTL Lab Meriden, CT

LABORATORY SAMPLE PREPARATION REQUIRED

None ☐ Filter ☐ Adjust pH to ____ Priority ☐
Other

ANALYSES REQUIRED

Parameters	Sample Number 11	12	13	14	15
pH					
Ag					
Al					
As					
Ba					
Cd					
CN-A					
CN-T					
Cr+6					
Cr-T					
Cu	X	X	X	X	X
Fe-D					
Hg					
Na					
Ni	X	X	X	X	X
Pb					
Se					
Sp. Cond.					
TDS					
Zn	X	X	X	X	X

Parameters	Sample Number 11	12	13	14	15
TPH 418.1					
TOC					
TOX					
STD Water					
Total Coliform					
Fluoride					
Chloride					
8010/601					
8015					
8020/602					
8020 + MTBE					
8080					
8100					
8 TCLP Metals	X	X	X	X	X
EPA 8240	X	X	X	X	X

Remarks:

White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File

№ 3265

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Phone: 203-793-6899
Fax: 203-793-6871

HRP

CHAIN OF CUSTODY

Sheet 4 of 4
Job Number How 0011.RC
Project Manager RDM

Place & Address of Collection: Howe Furniture, Norwalk CT
Samplers Name (Signature):
Assistant (Witness)(Signature):

Sample Number	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Type: Water	Soil	Air	Waste	Remarks
16	AOC 10W	Glass	8oz	Cool	10/18/95	PM				X	
17	AOC 10Soil							X		X	
18	AOC 11E									X	
19	AOC 11S									X	

Relinquished By (Signature):
Received By (Signature): Marlene Rowland Date 10/18/95 Time 5:00
Relinquished By (Signature):
Received By (Signature): Date Time
Name & Address of Laboratory: CTL-Meriden

LABORATORY SAMPLE PREPARATION REQUIRED

None ☐ Filter ☐ Adjust pH to ____ Priority ☐
Other

ANALYSES REQUIRED

Parameters	Sample Number 16	17	18	19
pH				
Ag				
Al				
As				
Ba				
Cd				
CN-A				
CN-T				
Cr+6				
Cr-T				
Cu	"	"	"	—
Fe-D				
Hg				
Na				
Ni	"	"	"	"
Pb				
Se				
Sp. Cond.				
TDS				
Zn	"	"	"	—

Parameters	Sample Number 16	17	18	19
TPH 418.1				
TOC				
TOX				
STD Water				
Total Coliform				
Fluoride				
Chloride				
8010/601				
8015				
8020/602				
8020 + MTBE				
8080				
8100				
8 TCLP Metals	—	—	—	—
8240	"	"	"	"

Remarks: TCLP

White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File

№ 3264

Have Furniture HOW0011.RC

November 29, 1995

HRP Associates Inc.
167 New Britain Ave
Plainville, CT 06062

Attn: Ms. Pat Terwilliger

RECEIVED
DEC - 4 1995
HRP ASSOCIATES, INC.

Please find attached laboratory report(s) for the samples submitted on : October 18, 1995

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing and or the test results, please have the following information readily available :

LAB No. : 115-361-19
PO/JOB No. : HOW0011.RC
INVOICE No. : *55856*
ORDER No. : 35950
CUSTOMER No.: 350

Please feel free to contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER ■ SOIL ■ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ■ 203/634-3731
165 GRACEY AVENUE ■ MERIDEN, CT ■ 06451

Date Samples Received : 10-18-95
Date Samples Activated: 11-13-95

Client Name: **HRP Associates Inc.** CTL Lab No. 115-361-19
Report Date: 11-29-95 PO/Job No. HOW0011.RC

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type / CTL Sample No. / Field ID	S 13522 AOC2B	S 13523 AOC2N	S 13524 AOC2 Soil	S 13525 AOC5 Soil
Silver-mg/L	---	---	---	ND<0.01
Barium-mg/L	---	---	ND<0.5	---
Cadmium-mg/L	---	---	---	0.026
Copper-mg/L	ND<0.01	0.02	0.01	0.12
Nickel-mg/L	---	---	ND<0.05	0.06
Lead-mg/L	---	---	ND<0.010	ND<0.010
Zinc-mg/L	---	ND<0.05	ND<0.05	0.43

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

Date Samples Received : 10-18-95
Date Samples Activated: 11-13-95

*Client Name: **HRP Associates Inc.*** *CTL Lab No. 115-361-19*
Report Date: 11-29-95 PO/Job No. HOW0011.RC

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type / CTL Sample No. / Field ID	S 13526 AOC5M	S 13527 AOC5N	S 13528 AOC5S	S 13529 AOC6
Cadmium-mg/L	ND<0.005	ND<0.005	---	ND<0.005
Copper-mg/L	0.01	0.01	0.01	0.02
Nickel-mg/L	---	---	---	ND<0.05
Zinc-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

Date Samples Received : 10-18-95
Date Samples Activated: 11-13-95

Client Name: **HRP Associates Inc.** CTL Lab No. 115-361-19
Report Date: 11-29-95 PO/Job No. HOW0011.RC

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type / CTL Sample No. / Field ID	S 13530 AOC7 Soil	S 13531 AOC7W	S 13532 AOC7E	S 13533 AOC8N
Barium-mg/L	ND<0.5	---	ND<0.5	---
Cadmium-mg/L	ND<0.005	ND<0.005	ND<0.005	---
Copper-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Nickel-mg/L	ND<0.05	---	---	---
Zinc-mg/L	ND<0.05	ND<0.05	ND<0.05	---

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

Date Samples Received : 10-18-95
Date Samples Activated: 11-13-95

Client Name: **HRP Associates Inc.** CTL Lab No. 115-361-19
Report Date: 11-29-95 PO/Job No. HOW0011.RC

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type	S	S	S	S
CTL Sample No.	13534	13536	13537	13538
Field ID	AOC8S	AOC10E	AOC10W	AOC10 Soil
Barium-mg/L	ND<0.5	ND<0.5	ND<0.5	---
Cadmium-mg/L	---	ND<0.005	ND<0.005	ND<0.005
Copper-mg/L	ND<0.01	0.02	0.01	0.01
Lead-mg/L	---	---	---	ND<0.010
Zinc-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Date Samples Received : 10-18-95
Date Samples Activated: 11-13-95

Client Name: **HRP Associates Inc.** CTL Lab No. 115-361-19
Report Date: 11-29-95 PO/Job No. HOW0011.RC

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type	*S*	*S*	*S*
CTL Sample No.	13539	13540	13535
Field ID	AOC11E	AOC11S	AOC9
Barium-mg/L	---	---	ND<0.5
Copper-mg/L	ND<0.01	0.01	ND<0.01
Zinc-mg/L	ND<0.05	ND<0.05	ND<0.05

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

APPENDIX D

Laboratory Report for December 21, 1995 Soil Samples

e/rdm/how0012.rc

HRP ASSOCIATES, INC.

January 5, 1996

RECEIVED
JAN 15 1996
HRP ASSOCIATES, INC.

HRP Associates Inc.
167 New Britain Ave
Plainville, CT 06062

Attn: Ms. Pat Terwilliger

Please find attached laboratory report(s) for the samples submitted on : **December 21, 1995**

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing and or the test results, please have the following information readily available :

LAB No. : 125-404-2
PO/JOB No. : HOW0011.RC
INVOICE No. : 56509
ORDER No. : 36607
CUSTOMER No.: 350

Please feel free to contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER ■ SOIL ■ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ■ 203/634-3731
165 GRACEY AVENUE ■ MERIDEN, CT ■ 06451

Date Samples Received : 12-21-95

Client Name: **HRP Associates Inc.** CTL Lab No. 125-404-2
Report Date: 1-5-96 PO/Job No. HOW0011.RC

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type	**S**	**S**		
CTL Sample No.	**16014**	**16015**		
Field ID	**S-1**	**S-2**		
Silver-mg/L	ND<0.01	ND<0.01		
Cadmium-mg/L	0.033	ND<0.005		
Copper-mg/L	0.07	0.01		
Nickel-mg/L	ND<0.05	ND<0.05		
Lead-mg/L	ND<0.010	ND<0.010		
Zinc-mg/L	0.47	ND<0.05		

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

---

ssociates, Inc.
ew Britain Avenue
ille, CT 06062
: 203-793-6899
203-793-6871

HRP

CHAIN OF CUSTODY

Sheet 1 of 1
Job Number HOW0011.RC
Project Manager Steve

Location of Collection: House Furniture Norwalk Connecticut
Samplers Name (Signature):
Assistant (Witness)(Signature):

Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Type: Water	Soil	Air	Waste	Remarks
AOC 5 1'	Glass	8oz	cool	12/21/95	12 P.M.		X			
AOC 5 1'	Glass	8oz	cool	12/21/95	12 P.M.		X			

(Signature): Received By (Signature): N.M.Callahan Date 12/21/95 Time 2:10
(Signature): Received By (Signature): Date Time

Location of Laboratory: CTL-MERIDEN

LABORATORY SAMPLE PREPARATION REQUIRED

Filter ☐ Adjust pH to _____ Priority ☐

ANALYSES REQUIRED

Sample Number					Parameters	Sample Number				
S-1	S-2				TPH 418.1					
↓	↓				TOC					
					TOX					
					STD Water					
					Total Coliform					
↓	↓				Fluoride					
					Chloride					
					8010/601					
					8015					
					8020/602					
↓	↓				8020 + MTBE					
					8080					
					8100					
					8 TCLP Metals					
↓	↓									
↓	↓									
↓	↓									

METALS by SPLP

White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File

№ 4320

February 16, 1996

HRP Associates Inc.
167 New Britain Ave
Plainville, CT 06062

Attn: Ms. Pat Terwilliger

RECEIVED
FEB 19 1996
HRP ASSOCIATES, INC.

Please find attached laboratory report(s) for the samples submitted on :
February 1, 1996

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing and or the test results, please have the following information readily available :

LAB No. : 296008
PO/JOB No. : HOW0012.RC
INVOICE No. : 57130
ORDER No. : 37228
CUSTOMER No.: 350

Please feel free to contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER ■ SOIL ■ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ■ 203/634-3731
165 GRACEY AVENUE ■ MERIDEN, CT ■ 06451

Date Samples Received : 2-1-96

Client Name: **HRP Associates Inc.** CTL Lab No. 296008
Report Date: 2-15-96 PO/Job No. HOW0012.RC

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type	**S**	**S**	**S**	**S**
CTL Sample No.	**1007**	**1008**	**1009**	**1010**
Field ID	**AOC5E**	**AOC5W**	**AOC5.5E**	**AOC5.5W**
Silver-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Cadmium-mg/L	0.010	0.009	ND<0.005	ND<0.005
Nickel-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Lead-mg/L	ND<0.010	ND<0.010	ND<0.010	ND<0.010
Zinc-mg/L	0.30	0.11	ND<0.05	ND<0.05

SPLP EPA 1312

Matrix Type	**S**	**S**		
CTL Sample No.	**1011**	**1012**		
Field ID	**AOC6E**	**AOC6W**		
Silver-mg/L	ND<0.01	ND<0.01		
Cadmium-mg/L	ND<0.005	ND<0.005		
Nickel-mg/L	ND<0.05	ND<0.05		
Lead-mg/L	ND<0.010	ND<0.010		
Zinc-mg/L	0.08	0.12		

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Torrington # 296008

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Phone: 203-793-6899
Fax: 203-793-6871

HRP

CHAIN OF CUSTODY

Sheet 1 of 2
Job Number HOW0012.RC
Project Manager RDM

Place & Address of Collection: Howe Furniture, Woodland Ave, Ansonia CT
Samplers Name (Signature):
Assistant (Witness)(Signature):

Sample Number	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Type: Water	Soil	Air	Waste	Remarks
1	AOC 5E	Glass	80Z	Cool	2/1/96	10AM		X			
2	AOC 5W										
3	AOC 5.5E										
4	AOC 5.5W										
5	AOC 6E										

Relinquished By (Signature): Received By (Signature): Date 2/1/96 Time 10am
Relinquished By (Signature): Received By (Signature): Date 2/1/96 Time 3:30
Name & Address of Laboratory: CTL - MERIDEN

LABORATORY SAMPLE PREPARATION REQUIRED

None ☐ Filter ☐ Adjust pH to _____ Priority ☐
Other

ANALYSES REQUIRED

Parameters	Sample Number 1	2	3	4	5
pH					
Ag	X	X	X	X	X
Al					
As					
Ba					
Cd	X	X	X	X	X
CN-A					
CN-T					
Cr^{+6}					
Cr-T					
Cu					
Fe-D					
Hg					
Ni	X	X	X	X	X
Pb	X	X	X	X	X
Se					
Sp. Cond.					
TDS					
Zn	X	X	X	X	X

Parameters	Sample Number
TPH 418.1	
TOC	
TOX	
STD Water	
Total Coliform	
Fluoride	
Chloride	
8010/601	
8015	
8020/602	
8020 + MTBE	
8080	
8100	
8 TCLP Metals	

Remarks: metals by SPLP — cad silver Nickel Zinc Lead

White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File

№ 4554

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Phone: 203-793-6899
Fax: 203-793-6871

HRP

CHAIN OF CUSTODY

Sheet 2 of 2
Job Number HOW0012.RC
Project Manager RDM

Place & Address of Collection: Howe Furniture, Woodland Ave, Nauwalk CT
Samplers Name (Signature):
Assistant (Witness)(Signature):

Sample Number	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Type: Water	Soil	Air	Waste	Remarks
6	AOC 6W	Glass	80Z	Cool	2/1/96	10AM		X			

Relinquished By (Signature): Received By (Signature): Date 2/1/96 Time 10:07
Relinquished By (Signature): Received By (Signature): Date 2/1/96 Time 3:30
Name & Address of Laboratory: CTL - MERIDEN

LABORATORY SAMPLE PREPARATION REQUIRED

None ☐ Filter ☐ Adjust pH to _____ Priority ☐
Other

ANALYSES REQUIRED

Parameters	Sample Number C
pH	
Ag	X
Al	
As	
Ba	
Cd	X
CN-A	
CN-T	
Cr^{+6}	
Cr-T	
Cu	
Fe-D	
Hg	
Ni	X
Pb	X
Se	
Sp. Cond.	
TDS	
Zn	X

Parameters	Sample Number
TPH 418.1	
TOC	
TOX	
STD Water	
Total Coliform	
Fluoride	
Chloride	
8010/601	
8015	
8020/602	
8020 + MTBE	
8080	
8100	
8 TCLP Metals	

Remarks: metals by SPLP

White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File

№ 4555

APPENDIX E

Laboratory Report for February 1, 1996 Soil Samples

s:\rdm\how0012.rc

HRP ASSOCIATES, INC.

March 11, 1996

HRP Associates Inc.
167 New Britain Ave
Plainville, CT 06062

Attn: Ms. Pat Terwilliger

RECEIVED
MAR 14 1996
HRP ASSOCIATES, INC.

Please find attached laboratory report(s) for the samples submitted on : **February 27, 1996**

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing and or the test results, please have the following information readily available :

LAB No. : 296322
PO/JOB No. : HOW0012.RC
INVOICE No. : 57472
ORDER No. : 37570
CUSTOMER No.: 350

Please feel free to contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER ■ SOIL ■ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ■ 203/634-3731
165 GRACEY AVENUE ■ MERIDEN, CT ■ 06451

Date Samples Received : 2-27-96

Client Name: **HRP Associates Inc.** CTL Lab No. 296322
Report Date: 3-11-96 PO/Job No. HOW0012.RC

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type	S	S	S	S
CTL Sample No.	1698	1699	1700	1701
Field ID	Level 1N	Level 1S	Level 1E	Level 1W
Silver-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Cadmium-mg/L	ND<0.005	0.006	0.008	0.030
Nickel-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Lead-mg/L	ND<0.010	ND<0.010	ND<0.010	ND<0.010
Zinc-mg/L	0.37	0.15	0.17	0.47

SPLP EPA 1312

Matrix Type	S	S	S	S
CTL Sample No.	1702	1703	1704	1705
Field ID	Level 2N	Level 2S	Level 2E	Level 2W
Silver-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Cadmium-mg/L	0.023	0.025	0.007	0.088
Nickel-mg/L	ND<0.05	ND<0.05	ND<0.05	0.07
Lead-mg/L	ND<0.010	ND<0.010	ND<0.010	ND<0.010
Zinc-mg/L	0.60	0.49	0.27	1.13

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Date Samples Received : 2-27-96

Client Name: **HRP Associates Inc.** CTL Lab No. 296322
Report Date: 3-11-96 PO/Job No. HOW0012.RC

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type	S	S	S	S
CTL Sample No.	1706	1707	1708	1709
Field ID	Level 3N	Level 3S	Level 3E	Level 3W
Silver-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Cadmium-mg/L	0.015	0.024	0.015	0.028
Nickel-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Lead-mg/L	ND<0.010	ND<0.010	ND<0.010	ND<0.010
Zinc-mg/L	0.43	0.52	0.44	0.63

SPLP EPA 1312

Matrix Type	S	S		
CTL Sample No.	1710	1711		
Field ID	Level 3BE	Level 3BW		
Silver-mg/L	ND<0.01	ND<0.01		
Cadmium-mg/L	0.015	0.021		
Nickel-mg/L	ND<0.05	0.07		
Lead-mg/L	ND<0.010	ND<0.010		
Zinc-mg/L	0.63	0.48		

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

2960326

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Phone: 203-793-6899
Fax: 203-793-6871

HRP
CHAIN OF CUSTODY

Sheet 1 of 3
Job Number HOW0012.RC
Project Manager RDM

Place & Address of Collection: House Furniture, Norwalk CT
Samplers Name (Signature): [signature]
Assistant (Witness)(Signature):

Sample Number	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Type: Water	Soil	Air	Waste	Remarks
1	Level 1N	Glass	80z	Cool	2/27/96	AM		X			
2	Level 1S							X			
3	Level 1E							X			
4	Level 1W							X			
5	Level 2N							X			

Relinquished By (Signature): [signature] Received By (Signature): Helen Cardona Date 2/27/96 Time 1:01
Relinquished By (Signature): Received By (Signature): Date Time

Name & Address of Laboratory: CTL-MERIDEN

LABORATORY SAMPLE PREPARATION REQUIRED

None ☐ Filter ☐ Adjust pH to ____ Priority ☐
Other

ANALYSES REQUIRED

Parameters	Sample Number 1	2	3	4	5	Parameters	Sample Number				
pH						TPH 418.1					
Ag	✓	✓	✓	✓	✓	TOC					
Al						TOX					
As						STD Water					
Ba						Total Coliform					
Cd	✓	✓	✓	✓	✓	Fluoride					
CN-A						Chloride					
CN-T						8010/601					
Cr^{+6}						8015					
Cr-T						8020/602					
Cu						8020 + MTBE					
Fe-D						8080					
Hg						8100					
Ni						8 TCLP Metals					
Ni	✓	✓	✓	✓	✓						
Pb	✓	✓	✓	✓	✓						
Se											
Sp. Cond.											
TDS											
Zn	✓	✓	✓	✓	✓						

Remarks: USE SPLP

White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File

№ 4538

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Phone: 203-793-6899
Fax: 203-793-6871

HRP
CHAIN OF CUSTODY

Sheet 2 of 3
Job Number HOW0012.RC
Project Manager RDM

Place & Address of Collection: House Furniture, Norwalk CT
Samplers Name (Signature): [signature]
Assistant (Witness)(Signature):

Sample Number	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Type: Water	Soil	Air	Waste	Remarks
6	Level 2S	Glass	80z	Cool	2/27/96	AM		X			
7	Level 2E							X			
8	Level 2W							X			
9	Level 3N							X			
10	Level 3S							X			

Relinquished By (Signature): [signature] Received By (Signature): Helen Cardona Date 2/27/96 Time 1:01
Relinquished By (Signature): Received By (Signature): Date Time

Name & Address of Laboratory: CTL-MERIDEN

LABORATORY SAMPLE PREPARATION REQUIRED

None ☐ Filter ☐ Adjust pH to ____ Priority ☐
Other

ANALYSES REQUIRED

Parameters	Sample Number 6	7	8	9	10	Parameters	Sample Number				
pH						TPH 418.1					
Ag	←	←	←	←	←	TOC					
Al						TOX					
As						STD Water					
Ba						Total Coliform					
Cd	←	←	←	←	←	Fluoride					
CN-A						Chloride					
CN-T						8010/601					
Cr^{+6}						8015					
Cr-T						8020/602					
Cu						8020 + MTBE					
Fe-D						8080					
Hg						8100					
Ni						8 TCLP Metals					
Ni	←	←	←	←	←						
Pb	←	←	←	←	←						
Se											
Sp. Cond.											
TDS											
Zn	←	←	←	←	←						

Remarks: by SPLP

White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File

№ 4539

HRP Associates, Inc. 167 New Britain Avenue Plainville, CT 06062 Phone: 203-793-6899 Fax: 203-793-6871	**HRP** **CHAIN OF CUSTODY**	Sheet 3 of 3 Job Number HBW0012RC Project Manager RDA

Place & Address of Collection	Samplers Name (Signature)
Howe Furniture Norwalk CT	Assistant (Witness)(Signature)

Sample Number	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Type: Water	Soil	Air	Waste	Remarks
11	Level3E	Glass	80z	4 deg C	2/27/96	AM		X			
12	Level3W	↓	↓	↓	↓	↓		X			
13	Level3BE							X			
14	Level3BW	✓						X			

Relinquished By (Signature)	Received By (Signature)	Date	Time
	Received By (Signature)	2/27/96	1:01
Relinquished By (Signature)	Received By (Signature)	Date	Time

Name & Address of Laboratory: CTL-MERIDEN

LABORATORY SAMPLE PREPARATION REQUIRED

None ☐ | Filter ☐ | Adjust pH to _____ | Priority ☐

Other

ANALYSES REQUIRED

Parameters	Sample Number 11	12	13	14		Parameters	Sample Number				
pH						TPH 418.1					
Ag	✓	✓	✓	✓		TOC					
Al						TOX					
As						STD Water					
Ba						Total Colform					
Cd	✓	✓	✓	✓		Fluoride					
CN-A						Chloride					
CN-T						8010/601					
Cr^{+6}						8015					
Cr-T						8020/602					
Cu						8020 + MTBE					
Fe-D						8080					
Hg						8100					
Ni						8 TCLP Metals					
Ni	✓	✓	✓	✓							
Pb	✓	✓	✓	✓							
Se											
Sp. Cond.											
TDS											
Zn	✓	✓	✓	✓							

Remarks

b, SPLP

White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File

№ 4540

DOT

RECEIVED
MAR -6 1999
HRP ASSOCIATES, INC.

March 01, 1999

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062

Attn: Ms. Pat Terwilliger

Please find attached laboratory report(s) for the samples submitted on:
February 11, 1999.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 299158
PO/Job No. : HOW0015.P2
Invoice No. : 1000000752
Customer No. : 350

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER ■ SOIL ■ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ■ 203/634-3731
165 GRACEY AVENUE ■ MERIDEN, CT ■ 06451

Date Samples Received : 2/11/99

Client Name: **HRP Associates, Inc.** CTL Lab. No. 299158
Report Date: 2/26/99 *PO/Job No. HOW0015.P2*

RESULTS OF ANALYSIS

Mass Analysis EPA 3050A

Matrix Type:	S	S	S	S
CTL Sample No.:	1729	1730	1731	1732
Field Id.:	MW-6 (2-4')	MW-7 (0-2')	MW-8 (0-2')	MW-9 (0-2')
Arsenic-mg/kg	2.9	9.9	1.2	10.1
Barium-mg/kg	92	170	94	193
Cadmium-mg/kg	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Chromium, Total-mg/kg	24.5	43.7	28.5	51.3
Lead-mg/kg	4.9	6.8	5.2	7.2
Mercury-mg/kg	0.03	0.03	0.03	0.04
Selenium-mg/kg	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Silver-mg/kg	ND<0.2	ND<0.2	ND<0.2	ND<0.2

EPA 418.1

Matrix Type:	S	S	S	S
CTL Sample No.:	1729	1730	1731	1732
Field Id.:	MW-6 (2-4')	MW-7 (0-2')	MW-8 (0-2')	MW-9 (0-2')
Oil & Grease (TPH)-ppm	ND<25	ND<25	ND<25	---

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

Date Samples Received : 2/11/99

Client Name: **HRP Associates, Inc.** CTL Lab. No. 299158
Report Date: 2/26/99 PO/Job No. HOW0015.P2

RESULTS OF ANALYSIS

Mass Analysis EPA 3050A

Matrix Type:	S	S	S	S
CTL Sample No.:	1733	1734	1735	1736
Field Id.:	MW-9 (4-6')	TB-3 (0-2')	TB-4 (4-6')	TB-5 (4-6')
Arsenic-mg/kg	1.2	9.1	2.8	6.8
Barium-mg/kg	28	174	41	63
Cadmium-mg/kg	ND<0.5	ND<0.5	ND<0.5	0.6
Chromium, Total-mg/kg	8.8	55.5	15.4	31.4
Lead-mg/kg	1.5	7.9	23.8	16.0
Mercury-mg/kg	0.05	ND<0.02	0.02	0.26
Selenium-mg/kg	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Silver-mg/kg	ND<0.2	ND<0.2	ND<0.2	ND<0.2

EPA 418.1

Matrix Type:	S	S	S	S
CTL Sample No.:	1733	1734	1735	1736
Field Id.:	MW-9 (4-6')	TB-3 (0-2')	TB-4 (4-6')	TB-5 (4-6')
Oil & Grease (TPH)-ppm	ND<25	ND<25	ND<25	150

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

Date Samples Received : 2/11/99

Client Name: **HRP Associates, Inc.** CTL Lab. No. 299158
Report Date: 2/26/99 PO/Job No. HOW0015.P2

RESULTS OF ANALYSIS

Mass Analysis EPA 3050A

Matrix Type:	S	S	S	S
CTL Sample No.:	1737	1738	1739	1740
Field Id.:	TB-6 (0-2')	TB-7 (2-4')	MW-11 (0-2')	MW-12 (0-2')
Arsenic-mg/kg	2.8	1.1	1.9	3.6
Barium-mg/kg	84	50	87	52
Cadmium-mg/kg	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Chromium, Total-mg/kg	18.2	18.0	18.0	17.4
Lead-mg/kg	7.5	3.3	6.9	9.1
Mercury-mg/kg	0.06	ND<0.02	0.11	0.07
Selenium-mg/kg	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Silver-mg/kg	ND<0.2	ND<0.2	ND<0.2	ND<0.2

EPA 418.1

Matrix Type:	S	S	S	S
CTL Sample No.:	1737	1738	1739	1740
Field Id.:	TB-6 (0-2')	TB-7 (2-4')	MW-11 (0-2')	MW-12 (0-2')
Oil & Grease (TPH)-ppm	580	280	1,044	ND<25

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

Date Samples Received : 2/11/99

Client Name: HRP Associates, Inc.	CTL Lab. No. 299158
Report Date: 2/26/99	PO/Job No. HOW0015.P2

RESULTS OF ANALYSIS

Mass Ahalysis EPA 3050A

Matrix Type:	S	S	S		
CTL Sample No.:	1741	1742	1743		
Field Id.:	MW-13 (0-2')	MW-14 (2-4')	MW-15 (2-4')		
Arsenic-mg/kg	3.0	ND<1.0	2.5		
Barium-mg/kg	63	27	52		
Cadmium-mg/kg	*ND<0.5*	*ND<0.5*	*ND<0.5*		
Chromium, Total-mg/kg	19.9	8.5	15.5		
Lead-mg/kg	8.4	1.3	14.5		
Mercury-mg/kg	0.11	ND<0.02	0.04		
Selenium-mg/kg	ND<0.5	ND<0.5	ND<0.5		
Silver-mg/kg	ND<0.2	ND<0.2	ND<0.2		

EPA 418.1

Matrix Type:	S	S	S		
CTL Sample No.:	1741	1742	1743		
Field Id.:	MW-13 (0-2')	MW-14 (2-4')	MW-15 (2-4')		
Oil & Grease (TPH)-ppm	380	ND<25	ND<25		

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: HRP Associates, Inc.	Date Extracted:	2/15/99
Lab No.	: 299158	Date Tested	: 2/16/99
PO No.	: HOW0015.P2	Analyst	: DMG
Rep. Date	: 2/26/99		

EPA METHOD 601/8021B Date Samples Rec'd: 2/11/99

Matrix Type :		S	S	S	S
CTL Sample No.:		1729	1730	1731	1733
Field ID :		MW-6 (2-4')	MW-7 (0-2')	MW-8 (0-2')	MW-9 (4-6')
	MDL				
Chloromethane	25	BDL	BDL	BDL	BDL
Vinylchloride	25	BDL	BDL	BDL	BDL
Bromomethane	25	BDL	BDL	BDL	BDL
Chloroethane	25	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL
1,1-Dichloroethylene	25	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethylene	25	BDL	BDL	BDL	BDL
1,1-Dichloroethane	25	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethylene	25	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	25	BDL	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL
1,2-Dichloroethane	25	BDL	BDL	BDL	BDL
Trichloroethylene	25	BDL	BDL	BDL	BDL
1,2-Dichloropropane	25	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropylene	25	BDL	BDL	BDL	BDL
trans-1,3Dichloropropylene	25	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	25	BDL	BDL	BDL	BDL
Tetrachloroethylene	*25*	*BDL*	*BDL*	*BDL*	*BDL*
Dibromochloromethane	25	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
bis(2-Chloroethoxy)methane	100	BDL	BDL	BDL	BDL
bis(2Chloroisopropyl)ether	100	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	100	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	25	BDL	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	*25*	*BDL*	*BDL*	*BDL*	*BDL*
Benzyl chloride	100	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB
Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	*: HRP Associates, Inc.*	*Date Extracted:*	*2/15/99*
Lab No.	: 299158	Date Tested	: 2/16/99
PO No.	: HOW0015.P2	Analyst	: DMG
Rep. Date	: 2/26/99		

EPA METHOD 601/8021B Date Samples Rec'd: 2/11/99

Matrix Type :		S	S	S	S
CTL Sample No.:		1734	1735	1736	1737
Field ID :		TB-3 (0-2')	TB-4 (4-6')	TB-5 (4-6')	TB-6 (0-2')
	MDL				
Chloromethane	25	BDL	BDL	BDL	BDL
Vinylchloride	25	BDL	BDL	BDL	BDL
Bromomethane	25	BDL	BDL	BDL	BDL
Chloroethane	25	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL
1,1-Dichloroethylene	*25*	*BDL*	*BDL*	*BDL*	*BDL*
Methylenechloride	25	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethylene	25	BDL	BDL	BDL	BDL
1,1-Dichloroethane	25	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethylene	25	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	25	BDL	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL
1,2-Dichloroethane	25	BDL	BDL	BDL	BDL
Trichloroethylene	25	BDL	BDL	BDL	BDL
1,2-Dichloropropane	25	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL
Dibromomethane	*25*	*BDL*	*BDL*	*BDL*	*BDL*
cis-1,3-Dichloropropylene	25	BDL	BDL	BDL	BDL
trans-1,3Dichloropropylene	25	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	25	BDL	BDL	BDL	BDL
Tetrachloroethylene	25	BDL	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
bis(2-Chloroethoxy)methane	100	BDL	BDL	BDL	BDL
bis(2Chloroisopropyl)ether	100	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	100	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	25	BDL	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL	BDL	BDL
Benzyl chloride	100	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	*25*	*BDL*	*BDL*	*BDL*	*BDL*

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB
Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: HRP Associates, Inc.	Date Extracted:	2/15/99
Lab No.	: 299158	Date Tested	: 2/16/99
PO No.	: HOW0015.P2	Analyst	: DMG
Rep. Date	: 2/25/99		

EPA METHOD 601/8021B Date Samples Rec'd: 2/11/99

Matrix Type :		S	S	S	S
CTL Sample No.:		1738	1739	1740	1741
Field ID :		TB-7 (2-4')	MW-11 (0-2')	MW-12 (0-2')	MW-13 (0-2')
	MDL				
Chloromethane	25	BDL	BDL	BDL	BDL
Vinylchloride	25	BDL	BDL	BDL	BDL
Bromomethane	25	BDL	BDL	BDL	BDL
Chloroethane	25	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL
1,1-Dichloroethylene	25	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethylene	25	BDL	BDL	BDL	BDL
1,1-Dichloroethane	25	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethylene	25	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	*25*	*BDL*	*BDL*	*BDL*	*BDL*
Carbontetrachloride	25	BDL	BDL	BDL	BDL
1,2-Dichloroethane	25	BDL	BDL	BDL	BDL
Trichloroethylene	25	BDL	BDL	BDL	BDL
1,2-Dichloropropane	25	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropylene	25	BDL	BDL	BDL	BDL
trans-1,3Dichloropropylene	25	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	25	BDL	BDL	BDL	BDL
Tetrachloroethylene	25	BDL	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
bis(2-Chloroethoxy)methane	100	BDL	BDL	BDL	BDL
bis(2Chloroisopropyl)ether	100	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	100	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	*25*	*BDL*	*BDL*	*BDL*	*BDL*
Trichloropropane	25	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL	BDL	BDL
Benzyl chloride	100	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB
Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : HRP Associates, Inc.
Lab No. : 299158
PO No. : HOW0015.P2
Rep. Date : 2/26/99
Date Extracted: 2/15/99
Date Tested : 2/16/99
Analyst : DMG

EPA METHOD 601/8021B Date Samples Rec'd: 2/11/99

Matrix Type :		S	S
CTL Sample No.:		1742	1743
Field ID :		MW-14 (2-4')	MW-15 (2-4')
	MDL		
Chloromethane	25	BDL	BDL
Vinylchloride	25	BDL	BDL
Bromomethane	25	BDL	BDL
Chloroethane	25	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL
1,1-Dichloroethylene	25	BDL	BDL
Methylenechloride	25	BDL	BDL
trans-1,2-Dichloroethylene	25	BDL	BDL
1,1-Dichloroethane	25	BDL	BDL
cis-1,2-Dichloroethylene	25	BDL	BDL
Chloroform	25	BDL	BDL
1,1,1-Trichloroethane	25	BDL	BDL
Carbontetrachloride	25	BDL	BDL
1,2-Dichloroethane	25	BDL	BDL
Trichloroethylene	25	BDL	BDL
1,2-Dichloropropane	25	BDL	BDL
Bromodichloromethane	25	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL
Dibromomethane	25	BDL	BDL
cis-1,3-Dichloropropylene	25	BDL	BDL
trans-1,3Dichloropropylene	25	BDL	BDL
1,1,2-Trichloroethane	25	BDL	BDL
Tetrachloroethylene	25	BDL	BDL
Dibromochloromethane	25	BDL	BDL
1-Chlorohexane	25	BDL	BDL
Chlorobenzene	25	BDL	BDL
bis(2-Chloroethoxy)methane	100	BDL	BDL
bis(2Chloroisopropyl)ether	100	BDL	BDL
Chloromethyl methyl ether	100	BDL	BDL
Bromoform	25	BDL	BDL
1,1,2,2-Tetrachloroethane	25	BDL	BDL
Trichloropropane	25	BDL	BDL
Bromobenzene	25	BDL	BDL
Chlorotoluene	25	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL
Benzyl chloride	100	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB
Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : HRP Associates, Inc.
Lab No. : 299158
PO No. : HOW0015.P2
Rep. Date : 2/26/99
Date Extracted: 2/15/99
Date Tested : 2/16/99
Analyst : DMG

EPA METHOD 602/8021B Date Samples Rec'd: 2/11/99

Matrix Type :		S	S	S	S
CTL Sample No.:		1729	1730	1731	1733
Field ID :		MW-6 (2-4')	MW-7 (0-2')	MW-8 (0-2')	MW-9 (4-6')
	MDL				
Benzene	20	BDL	BDL	BDL	BDL
Toluene	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
Ethyl Benzene	25	BDL	BDL	BDL	BDL
P & M Xylene	25	BDL	BDL	BDL	BDL
O-Xylene	25	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB
Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : HRP Associates, Inc.
Lab No. : 299158
PO No. : HOW0015.P2
Rep. Date : 2/26/99
Date Extracted: 2/15/99
Date Tested : 2/16/99
Analyst : DMG

EPA METHOD 602/8021B Date Samples Rec'd: 2/11/99

Matrix Type :		S	S	S	S
CTL Sample No.:		1734	1735	1736	1737
Field ID :		TB-3 (0-2')	TB-4 (4-6')	TB-5 (4-6')	TB-6 (0-2')
	MDL				
Benzene	20	BDL	BDL	BDL	BDL
Toluene	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
Ethyl Benzene	25	BDL	BDL	BDL	BDL
P & M Xylene	25	BDL	BDL	BDL	BDL
O-Xylene	25	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB
Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : HRP Associates, Inc.
Lab No. : 299158
PO No. : HOW0015.P2
Rep. Date : 2/26/99
Date Extracted: 2/15/99
Date Tested : 2/16/99
Analyst : DMG

EPA METHOD 602/8021B Date Samples Rec'd: 2/11/99

Matrix Type :		S	S	S	S
CTL Sample No.:		1738	1739	1740	1741
Field ID :		TB-7 (2-4')	MW-11 (0-2')	MW-12 (0-2')	MW-13 (0-2')
	MDL				
Benzene	20	BDL	BDL	BDL	BDL
Toluene	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
Ethyl Benzene	25	BDL	BDL	BDL	BDL
P & M Xylene	25	BDL	BDL	BDL	BDL
O-Xylene	25	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB
Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: HRP Associates, Inc.	Date Extracted	: 2/15/99
Lab No.	: 299158	Date Tested	: 2/16/99
PO No.	: HOW0015.P2	Analyst	: DMG
Rep. Date	: 2/26/99		

EPA METHOD 602/8021B **Date Samples Rec'd: 2/11/99**

Matrix Type :		S	S
CTL Sample No.:		1742	1743
Field ID :		MW-14 (2-4')	MW-15 (2-4')
	MDL		
Benzene	20	BDL	BDL
Toluene	25	BDL	BDL
Chlorobenzene	25	BDL	BDL
Ethyl Benzene	25	BDL	BDL
P & M Xylene	25	BDL	BDL
O-Xylene	25	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

299158

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Phone: 860-793-6899
Fax: 860-793-6871

HRP

CHAIN OF CUSTODY

Sheet 1 of 2
Job Number HOW0015. P2
Project Manager HSH

Place & Address of Collection: Howe Furniture, Norwalk, CT
Samplers Name (Signature): Kurt P. Haas

Sample I.D.	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Matrix	Remarks
MW-6	(2'-4')	Gl.	40z jar	Cool	2/5/99		S	
MW-7	(0'-2')				2/5			
MW-8	(0'-2')				2/8			
MW-9	(0'-2')				2/8			
MW-9	(4'-6')				2/8			
TB-3	(0'-2')				2/8			
TB-4	(4'-6')				2/9			
TB-5	(4'-6')				2/9			
TB-6	(0'-2')				2/9			
TB-7	(2'-4')				2/9			

Relinquished By (Signature): Kurt P. Haas — Received By (Signature): M McMahon — Date 2/11/99 — Time 3:45
Relinquished By (Signature) — Received By (Signature) — Date — Time
Name & Address of Laboratory: CTL- Meriden, CT

Parameters	Sample ID									
	MW-6(2-4)	MW-7(0-2)	MW-8(0-2')	MW-9(0-2')	MW-9(4'-6')	TB-3(0-2')	TB-4(4'-6')	TB-5(4'-6')	TB-6(0'-2')	TB-7(2'-4')
8021B(HVOC+AVOC)	X	X	X	no	X	X	X	X	X	X
TPH 418.1	X	X	X		X	X	X	X	X	X
RCRA metals- arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver by mass analysis	X	X	X	X	X	X	X	X	X	X

Remarks:

Abbreviations: G - Glass P - Plastic A - Amber T - TCLP Analysis M - Mass Analysis S - SPLP Analysis

g:\hrf\forms\chain2.ml White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File

№ 09943

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Phone: 860-793-6899
Fax: 860-793-6871

HRP

CHAIN OF CUSTODY

Sheet 2 of 2
Job Number HOW 0015. P2
Project Manager HSH

Place & Address of Collection: Howe Furniture, Norwalk, CT
Samplers Name (Signature): Kurt P. Haas

Sample I.D.	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Matrix	Remarks
MW-11	(0-2')	Gl.	40z jar	Cool	2/9/99		S	
MW-12	(0-2')				2/9/99			
MW-13	(0-2')				2/10/99			
MW-14	(2-4')				2/10/99			
MW-15	(2-4')				2/10/99			

Relinquished By (Signature): Kurt P. Haas — Received By (Signature): M McMahon — Date 2/11/99 — Time 3:45
Relinquished By (Signature) — Received By (Signature) — Date — Time
Name & Address of Laboratory: CTL- Meriden, CT

Parameters	Sample ID				
	MW-11(0-2)	MW-12(0-2)	MW-13(0-2)	MW-14(2-4)	MW-15(2-4)
8021B(HVOC+AVOC)	X	X	X	X	X
TPH 418.1	X	X	X	X	X
RCRA metals- arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver by mass analysis	X	X	X	X	X

Remarks:

Abbreviations: G - Glass P - Plastic A - Amber T - TCLP Analysis M - Mass Analysis S - SPLP Analysis

g:\hrf\forms\chain2.ml White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File

№ 09944

D

RECEIVED
FEB 25 1999
HRP ASSOCIATES, INC.

February 18, 1999

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Attn: Ms. Pat Terwilliger

Please find attached laboratory report(s) for the samples submitted on:
February 05, 1999.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No.	: 299082
PO/Job No.	: HOW0015.P2
Invoice No.	: 1000000602
Customer No.	: 350

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER ■ SOIL ■ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ■ 203/634-3731
165 GRACEY AVENUE ■ MERIDEN, CT ■ 06451

Date Samples Received : 2/5/99

Client Name: HRP Associates, Inc. CTL Lab. No. 299082
Report Date: 2/18/99 PO/Job No. HOW0015.P2

RESULTS OF ANALYSIS

Mass Analysis EPA 3050A

Matrix Type:	S	S	S	S
CTL Sample No.:	1446	1448	1449	1451
Field Id.:	TB-1 0-2'	TB-2 0-2'	MW-1 0-2'	MW-3 0-2'
Arsenic-mg/L	3.1	5.8	7.2	4.0
Barium-mg/L	41	57	113	48
Cadmium-mg/L	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Chromium, Total-mg/L	21.5	17.2	28.9	14.1
Lead-mg/L	13.5	6.9	9.0	10.6
Mercury-mg/L	0.23	ND<0.02	ND<0.02	ND<0.02
Selenium-mg/L	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Silver-mg/L	ND<0.2	ND<0.2	ND<0.2	ND<0.2

Matrix Type:	S	S	S	
CTL Sample No.:	1452	1453	1454	
Field Id.:	MW-4 2-4'	MW-5 2-4'	MW-2 0-2'	
Arsenic-mg/L	3.1	1.9	4.3	
Barium-mg/L	68	25	37	
Cadmium-mg/L	ND<0.5	ND<0.5	ND<0.5	
Chromium, Total-mg/L	17.3	7.3	12.0	
Lead-mg/L	17.8	2.6	8.7	
Mercury-mg/L	0.08	0.03	0.02	
Selenium-mg/L	ND<0.5	ND<0.5	ND<0.5	
Silver-mg/L	ND<0.2	ND<0.2	ND<0.2	

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

Date Samples Received : 2/5/99

Client Name: HRP Associates, Inc. CTL Lab. No. 299082
Report Date: 2/18/99 PO/Job No. HOW0015.P2

RESULTS OF ANALYSIS

EPA 418.1

Matrix Type: S

Field Id.	CTL #	Oil & Grease (TPH)-ppm
TB-1, 6-8'	1447	ND<25
TB-2, 0-2'	1448	ND<25
MW-1, 0-2'	1449	ND<25
MW-2, 6-8'	1450	ND<25
MW-3, 0-2'	1451	ND<25
MW-4, 2-4'	1452	ND<25
MW-5, 2-4'	1453	44

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

Client : HRP Associates, Inc. Date Extracted: 2/8/99
Lab No. : 299082 Date Tested : 2/8/99
PO No. : HOW0015.P2 Analyst : DMG
Rep. Date : 2/18/99

EPA METHOD 601/8021B Date Samples Rec'd: 2/5/99

Matrix Type :		S	S	S	S
CTL Sample No.:		1447	1448	1449	1450
Field ID :	MDL	TB-1, 6-8'	TB-2, 0-2'	MW-1, 0-2'	MW-2, 6-8'
Chloromethane	25	BDL	BDL	BDL	BDL
Vinylchloride	25	BDL	BDL	BDL	BDL
Bromomethane	25	BDL	BDL	BDL	BDL
Chloroethane	25	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL
1,1-Dichloroethylene	25	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethylene	25	BDL	BDL	BDL	BDL
1,1-Dichloroethane	25	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethylene	25	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	25	BDL	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL
1,2-Dichloroethane	25	BDL	BDL	BDL	BDL
Trichloroethylene	25	BDL	BDL	BDL	BDL
1,2-Dichloropropane	25	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropylene	25	BDL	BDL	BDL	BDL
trans-1,3Dichloropropylene	25	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	25	BDL	BDL	BDL	BDL
Tetrachloroethylene	25	BDL	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
bis(2-Chloroethoxy)methane	100	BDL	BDL	BDL	BDL
bis(2Chloroisopropyl)ether	100	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	100	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	25	BDL	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL	BDL	BDL
Benzyl chloride	100	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below BDLection LBDL/UNITS=BDLB
Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

Client : HRP Associates, Inc. Date Extracted: 2/8/99
Lab No. : 299082 Date Tested : 2/8/99
PO No. : HOW0015.P2 Analyst : DMG
Rep. Date : 2/18/99

EPA METHOD 601/8021B Date Samples Rec'd: 2/5/99

Matrix Type :		S	S	S	
CTL Sample No.:		1451	1452	1453	
Field ID :	MDL	MW-3, 0-2'	MW-4, 2-4'	MW-5, 2-4'	
Chloromethane	25	BDL	BDL	BDL	
Vinylchloride	25	BDL	BDL	BDL	
Bromomethane	25	BDL	BDL	BDL	
Chloroethane	25	BDL	BDL	BDL	
Trichlorofluoromethane	25	BDL	BDL	BDL	
1,1-Dichloroethylene	25	BDL	BDL	BDL	
Methylenechloride	25	BDL	BDL	BDL	
trans-1,2-Dichloroethylene	25	BDL	BDL	BDL	
1,1-Dichloroethane	25	BDL	BDL	BDL	
cis-1,2-Dichloroethylene	25	BDL	BDL	BDL	
Chloroform	25	BDL	BDL	BDL	
1,1,1-Trichloroethane	25	BDL	BDL	BDL	
Carbontetrachloride	25	BDL	BDL	BDL	
1,2-Dichloroethane	25	BDL	BDL	BDL	
Trichloroethylene	25	BDL	BDL	BDL	
1,2-Dichloropropane	25	BDL	BDL	BDL	
Bromodichloromethane	25	BDL	BDL	BDL	
2-Chlorethylvinylether	25	BDL	BDL	BDL	
Dibromomethane	25	BDL	BDL	BDL	
cis-1,3-Dichloropropylene	25	BDL	BDL	BDL	
trans-1,3Dichloropropylene	25	BDL	BDL	BDL	
1,1,2-Trichloroethane	25	BDL	BDL	BDL	
Tetrachloroethylene	25	BDL	BDL	BDL	
Dibromochloromethane	25	BDL	BDL	BDL	
1-Chlorohexane	25	BDL	BDL	BDL	
Chlorobenzene	25	BDL	BDL	BDL	
bis(2-Chloroethoxy)methane	100	BDL	BDL	BDL	
bis(2Chloroisopropyl)ether	100	BDL	BDL	BDL	
Chloromethyl methyl ether	100	BDL	BDL	BDL	
Bromoform	25	BDL	BDL	BDL	
1,1,2,2-Tetrachloroethane	25	BDL	BDL	BDL	
Trichloropropane	25	BDL	BDL	BDL	
Bromobenzene	25	BDL	BDL	BDL	
Chlorotoluene	25	BDL	BDL	BDL	
1,3-Dichlorobenzene	25	BDL	BDL	BDL	
1,4-Dichlorobenzene	25	BDL	BDL	BDL	
Benzyl chloride	100	BDL	BDL	BDL	
1,2-Dichlorobenzene	25	BDL	BDL	BDL	

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB
Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

Client	: HRP Associates, Inc.	Date Extracted:	2/8/99
Lab No.	: 299082	Date Tested	: 2/8/99
PO No.	: HOW0015.P2		
Rep. Date	: 2/18/99	Analyst	: DMG

EPA METHOD 602/8021B Date Samples Rec'd: 2/5/99

Matrix Type :		S	S	S	S
CTL Sample No.:		1447	1448	1449	1450
Field ID :	MDL	TB-1, 6-8'	TB-2, 0-2'	MW-1, 0-2'	MW-2, 6-8'
Benzene	20	BDL	BDL	BDL	BDL
Toluene	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
Ethyl Benzene	25	BDL	BDL	BDL	BDL
P & M Xylene	25	BDL	BDL	BDL	BDL
O-Xylene	25	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

Client	: HRP Associates, Inc.	Date Extracted:	2/8/99
Lab No.	: 299082	Date Tested	: 2/8/99
PO No.	: HOW0015.P2		
Rep. Date	: 2/18/99	Analyst	: DMG

EPA METHOD 602/8021B Date Samples Rec'd: 2/5/99

Matrix Type :		S	S	S	
CTL Sample No.:		1451	1452	1453	
Field ID :	MDL	MW-3, 0-2'	MW-4, 2-4'	MW-5, 2-4'	
Benzene	20	BDL	BDL	BDL	
Toluene	25	BDL	BDL	BDL	
Chlorobenzene	25	BDL	BDL	BDL	
Ethyl Benzene	25	BDL	BDL	BDL	
P & M Xylene	25	BDL	BDL	BDL	
O-Xylene	25	BDL	BDL	BDL	
1,4-Dichlorobenzene	25	BDL	BDL	BDL	
1,3-Dichlorobenzene	25	BDL	BDL	BDL	
1,2-Dichlorobenzene	25	BDL	BDL	BDL	

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

299082

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Phone: 860-793-6899
Fax: 860-793-6871

HRP

CHAIN OF CUSTODY

Sheet 1 of 1

Job Number HOW 0015.P2

Project Manager [illegible]

Place & Address of Collection: 151 Woodward Ave Norwalk, CT

Samplers Name (Signature):

Sample I.D.	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Matrix	Remarks
TB-1	0-2	glass	80z	Cool	2/2/99		Soil	
TB-1	6-8'							
TB-2	0-2							
MW-1	0-2							
MW-2	6-8.0'				2/3/99			
MW-3	0-2				2/4/99			
MW-4	2-4'				2/4/99			
MW-5	2-4'				2/4/99			
MW-2	0-2'				2/4/99			

Relinquished By (Signature): [signature] Received By (Signature): [signature] Date 2/5/99 Time 2:30

Relinquished By (Signature): [signature] Received By (Signature): [signature] Date 2/5/99 Time 5:20

Name & Address of Laboratory: CTL Meriden, CT

Parameters	Sample ID								
	TB-1 0-2	TB-1 6-8	TB-2 0-2	TRIP 2-2	MW-2 6-8	MW-3 0-2	MW-4 2-4	MW-5 2-4	MW-2 0-2
8021B		X	X	X	X	X	X	X	
TPH 418.1		X	X	X	X	X	X	X	
RCRA metals	X		X	X		X	X	X	X

Remarks: RCRA metals arsenic, barium, cadmium, chromium (total), lead, mercury, selenium, silver by TCLP

Abbreviations: G - Glass P - Plastic A - Amber T - TCLP Analysis M - Mass Analysis S - SPLP Analysis

g:\mf\forms\chain2.ds White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File

Nº 09928

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

March 09, 1999

RECEIVED
MAR 11 1999
HRP ASSOCIATES, INC.

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062

Attn: Ms. Pat Terwilliger

Please find attached laboratory report(s) for the samples submitted on:
March 01, 1999.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 399004
PO/Job No. : HOW0015.P2
Invoice No. : 1000000861
Customer No. : 350

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER ■ SOIL ■ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ■ 203/634-3731
165 GRACEY AVENUE ■ MERIDEN, CT ■ 06451

Date Samples Received : 2/5& 2/11/99
Date Samples Reactivated: 3/1/99

Client Name: **HRP Associates, Inc.** CTL Lab. No. 399004
Report Date: 3/8/99 PO/Job No. HOW0015.P2

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type:	S	S	S	S
CTL Sample No.:	1448	1449	1730	1732
Field Id.:	TB-2	MW-1	MW-7	MW-9
Arsenic-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/L	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Cadmium-mg/L	ND<0.005	ND<0.005	ND<0.005	ND<0.005
Chromium, Total-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Lead-mg/L	ND<0.005	ND<0.005	ND<0.005	ND<0.005
Mercury-mg/L	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Selenium-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Date Samples Received : 2/5& 2/11/99
Date Samples Reactivated: 3/1/99

Client Name: **HRP Associates, Inc.** CTL Lab. No. 399004
Report Date: 3/8/99 PO/Job No. HOW0015.P2

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type:	S	S		
CTL Sample No.:	1734	1736		
Field Id.:	TB-3	TB-4		
Arsenic-mg/L	ND<0.05	ND<0.05		
Barium-mg/L	ND<0.5	ND<0.5		
Cadmium-mg/L	ND<0.005	ND<0.005		
Chromium, Total-mg/L	ND<0.05	ND<0.05		
Lead-mg/L	ND<0.005	0.006		
Mercury-mg/L	ND<0.002	ND<0.002		
Selenium-mg/L	ND<0.01	ND<0.01		
Silver-mg/L	ND<0.01	ND<0.01		

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

DOT

RECEIVED
MAR -6 1999
HRP ASSOCIATES, INC.

March 01, 1999

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062

Attn: Ms. Pat Terwilliger

Please find attached laboratory report(s) for the samples submitted on:
February 11, 1999.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 299158
PO/Job No. : HOW0015.P2
Invoice No. : 1000000752
Customer No. : 350

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER ■ SOIL ■ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ■ 203/634-3731
165 GRACEY AVENUE ■ MERIDEN, CT ■ 06451

Date Samples Received : 2/11/99

Client Name: **HRP Associates, Inc.** CTL Lab. No. 299158
Report Date: 2/26/99 PO/Job No. HOW0015.P2

RESULTS OF ANALYSIS

Mass Analysis EPA 3050A

Matrix Type:	S	S	S	S
CTL Sample No.:	1729	1730	1731	1732
Field Id.:	MW-6 (2-4')	MW-7 (0-2')	MW-8 (0-2')	MW-9 (0-2')
Arsenic-mg/kg	2.9	9.9	1.2	10.1
Barium-mg/kg	92	170	94	193
Cadmium-mg/kg	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Chromium, Total-mg/kg	24.5	43.7	28.5	51.3
Lead-mg/kg	4.9	6.8	5.2	7.2
Mercury-mg/kg	0.03	0.03	0.03	0.04
Selenium-mg/kg	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Silver-mg/kg	ND<0.2	ND<0.2	ND<0.2	ND<0.2

EPA 418.1

Matrix Type:	S	S	S	S
CTL Sample No.:	1729	1730	1731	1732
Field Id.:	MW-6 (2-4')	MW-7 (0-2')	MW-8 (0-2')	MW-9 (0-2')
Oil & Grease (TPH)-ppm	ND<25	ND<25	ND<25	---

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Date Samples Received : 2/11/99

Client Name: **HRP Associates, Inc.** CTL Lab. No. 299158
Report Date: 2/26/99 PO/Job No. HOW0015.P2

RESULTS OF ANALYSIS

Mass Analysis EPA 3050A

Matrix Type:	S	S	S	S
CTL Sample No.:	1733	1734	1735	1736
Field Id.:	MW-9 (4-6')	TB-3 (0-2')	TB-4 (4-6')	TB-5 (4-6')
Arsenic-mg/kg	1.2	9.1	2.8	6.8
Barium-mg/kg	28	174	41	63
Cadmium-mg/kg	ND<0.5	ND<0.5	ND<0.5	0.6
Chromium, Total-mg/kg	8.8	55.5	15.4	31.4
Lead-mg/kg	1.5	7.9	23.8	16.0
Mercury-mg/kg	0.05	ND<0.02	0.02	0.26
Selenium-mg/kg	*ND<0.5*	*ND<0.5*	*ND<0.5*	*ND<0.5*
Silver-mg/kg	ND<0.2	ND<0.2	ND<0.2	ND<0.2

EPA 418.1

Matrix Type:	S	S	S	S
CTL Sample No.:	1733	1734	1735	1736
Field Id.:	MW-9 (4-6')	TB-3 (0-2')	TB-4 (4-6')	TB-5 (4-6')
Oil & Grease (TPH)-ppm	ND<25	ND<25	ND<25	150

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

Date Samples Received : 2/11/99

Client Name: **HRP Associates, Inc.** CTL Lab. No. 299158
Report Date: 2/26/99 PO/Job No. HOW0015.P2

RESULTS OF ANALYSIS

Mass Analysis EPA 3050A

Matrix Type:	S	S	S	S
CTL Sample No.:	1737	1738	1739	1740
Field Id.:	TB-6 (0-2')	TB-7 (2-4')	MW-11 (0-2')	MW-12 (0-2')
Arsenic-mg/kg	2.8	1.1	1.9	3.6
Barium-mg/kg	84	50	87	52
Cadmium-mg/kg	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Chromium, Total-mg/kg	18.2	18.0	18.0	17.4
Lead-mg/kg	7.5	3.3	6.9	9.1
Mercury-mg/kg	0.06	ND<0.02	0.11	0.07
Selenium-mg/kg	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Silver-mg/kg	ND<0.2	ND<0.2	ND<0.2	ND<0.2

EPA 418.1

Matrix Type:	S	S	S	S
CTL Sample No.:	1737	1738	1739	1740
Field Id.:	TB-6 (0-2')	TB-7 (2-4')	MW-11 (0-2')	MW-12 (0-2')
Oil & Grease (TPH)-ppm	580	280	1,044	ND<25

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

Date Samples Received : 2/11/99

Client Name: **HRP Associates, Inc.** CTL Lab. No. 299158
Report Date: 2/26/99 *PO/Job No. HOW0015.P2*

RESULTS OF ANALYSIS

Mass Analysis EPA 3050A

Matrix Type:	S	S	S	
CTL Sample No.:	1741	1742	1743	
Field Id.:	MW-13 (0-2')	MW-14 (2-4')	MW-15 (2-4')	
Arsenic-mg/kg	3.0	ND<1.0	2.5	
Barium-mg/kg	63	27	52	
Cadmium-mg/kg	ND<0.5	ND<0.5	ND<0.5	
Chromium, Total-mg/kg	19.9	8.5	15.5	
Lead-mg/kg	8.4	1.3	14.5	
Mercury-mg/kg	0.11	ND<0.02	0.04	
Selenium-mg/kg	ND<0.5	ND<0.5	ND<0.5	
Silver-mg/kg	ND<0.2	ND<0.2	ND<0.2	

EPA 418.1

Matrix Type:	S	S	S	
CTL Sample No.:	1741	1742	1743	
Field Id.:	MW-13 (0-2')	MW-14 (2-4')	MW-15 (2-4')	
Oil & Grease (TPH)-ppm	380	ND<25	ND<25	

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

Client : HRP Associates, Inc. Date Extracted: 2/15/99
Lab No. : 299158 Date Tested : 2/16/99
PO No. : HOW0015.P2 Analyst : DMG
Rep. Date : 2/26/99

EPA METHOD 601/8021B **Date Samples Rec'd: 2/11/99**

Matrix Type :		S	S	S	S
CTL Sample No.:		1729	1730	1731	1733
Field ID :	MDL	MW-6 (2-4')	MW-7 (0-2')	MW-8 (0-2')	MW-9 (4-6')
Chloromethane	25	BDL	BDL	BDL	BDL
Vinylchloride	25	BDL	BDL	BDL	BDL
Bromomethane	25	BDL	BDL	BDL	BDL
Chloroethane	25	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL
1,1-Dichloroethylene	25	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethylene	25	BDL	BDL	BDL	BDL
1,1-Dichloroethane	25	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethylene	25	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL
1,2,1-Trichloroethane	25	BDL	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL
1,2-Dichloroethane	25	BDL	BDL	BDL	BDL
Trichloroethylene	25	BDL	BDL	BDL	BDL
1,2-Dichloropropane	25	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropylene	25	BDL	BDL	BDL	BDL
trans-1,3Dichloropropylene	25	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	25	BDL	BDL	BDL	BDL
Tetrachloroethylene	25	BDL	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
bis(2-Chloroethoxy)methane	100	BDL	BDL	BDL	BDL
bis(2Chloroisopropyl)ether	100	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	100	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	25	BDL	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL	BDL	BDL
Benzyl chloride	100	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB
Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

Client : HRP Associates, Inc.
Lab No. : 299158
PO No. : HOW0015.P2
Rep. Date : 2/26/99

Date Extracted: 2/15/99
Date Tested : 2/16/99
Analyst : DMG

EPA METHOD 601/8021B Date Samples Rec'd: 2/11/99

Matrix Type :		S	S	S	S
CTL Sample No.:		1734	1735	1736	1737
Field ID :		TB-3 (0-2')	TB-4 (4-6')	TB-5 (4-6')	TB-6 (0-2')
	MDL				
Chloromethane	25	BDL	BDL	BDL	BDL
Vinylchloride	25	BDL	BDL	BDL	BDL
Bromomethane	25	BDL	BDL	BDL	BDL
Chloroethane	25	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL
1,1-Dichloroethylene	25	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethylene	25	BDL	BDL	BDL	BDL
1,1-Dichloroethane	25	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethylene	25	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	25	BDL	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL
1,2-Dichloroethane	25	BDL	BDL	BDL	BDL
Trichloroethylene	25	BDL	BDL	BDL	BDL
1,2-Dichloropropane	25	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropylene	25	BDL	BDL	BDL	BDL
trans-1,3Dichloropropylene	25	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	25	BDL	BDL	BDL	BDL
Tetrachloroethylene	25	BDL	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
bis(2-Chloroethoxy)methane	100	BDL	BDL	BDL	BDL
bis(2Chloroisopropyl)ether	100	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	100	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	25	BDL	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL	BDL	BDL
Benzyl chloride	100	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB
Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : HRP Associates, Inc.
Lab No. : 299158
PO No. : HOW0015.P2
Rep. Date : 2/25/99

Date Extracted: 2/15/99
Date Tested : 2/16/99
Analyst : DMG

EPA METHOD 601/8021B Date Samples Rec'd: 2/11/99

Matrix Type :		S	S	S	S
CTL Sample No.:		1738	1739	1740	1741
Field ID :		TB-7 (2-4')	MW-11 (0-2')	MW-12 (0-2')	MW-13 (0-2')
	MDL				
Chloromethane	25	BDL	BDL	BDL	BDL
Vinylchloride	25	BDL	BDL	BDL	BDL
Bromomethane	25	BDL	BDL	BDL	BDL
Chloroethane	25	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL
1,1-Dichloroethylene	25	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethylene	25	BDL	BDL	BDL	BDL
1,1-Dichloroethane	25	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethylene	25	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	25	BDL	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL
1,2-Dichloroethane	25	BDL	BDL	BDL	BDL
Trichloroethylene	25	BDL	BDL	BDL	BDL
1,2-Dichloropropane	25	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropylene	25	BDL	BDL	BDL	BDL
trans-1,3Dichloropropylene	25	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	25	BDL	BDL	BDL	BDL
Tetrachloroethylene	25	BDL	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
bis(2-Chloroethoxy)methane	100	BDL	BDL	BDL	BDL
bis(2Chloroisopropyl)ether	100	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	100	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	25	BDL	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL	BDL	BDL
Benzyl chloride	100	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB
Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : HRP Associates, Inc.
Lab No. : 299158
PO No. : HOW0015.P2
Rep. Date : 2/26/99

Date Extracted: 2/15/99
Date Tested : 2/16/99
Analyst : DMG

EPA METHOD 601/8021B Date Samples Rec'd: 2/11/99

Matrix Type :		S	S
CTL Sample No.:		1742	1743
Field ID :		*MW-14* (2-4')	*MW-15* (2-4')
	MDL		
Chloromethane	25	BDL	BDL
Vinylchloride	25	BDL	BDL
Bromomethane	25	BDL	BDL
Chloroethane	25	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL
1,1-Dichloroethylene	25	BDL	BDL
Methylenechloride	25	BDL	BDL
trans-1,2-Dichloroethylene	25	BDL	BDL
1,1-Dichloroethane	25	BDL	BDL
cis-1,2-Dichloroethylene	25	BDL	BDL
Chloroform	25	BDL	BDL
1,1,1-Trichloroethane	25	BDL	BDL
Carbontetrachloride	25	BDL	BDL
1,2-Dichloroethane	25	BDL	BDL
Trichloroethylene	25	BDL	BDL
1,2-Dichloropropane	25	BDL	BDL
Bromodichloromethane	25	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL
Dibromomethane	25	BDL	BDL
cis-1,3-Dichloropropylene	25	BDL	BDL
trans-1,3Dichloropropylene	25	BDL	BDL
1,1,2-Trichloroethane	25	BDL	BDL
Tetrachloroethylene	25	BDL	BDL
Dibromochloromethane	25	BDL	BDL
1-Chlorohexane	25	BDL	BDL
Chlorobenzene	25	BDL	BDL
bis(2-Chloroethoxy)methane	100	BDL	BDL
bis(2Chloroisopropyl)ether	100	BDL	BDL
Chloromethyl methyl ether	100	BDL	BDL
Bromoform	25	BDL	BDL
1,1,2,2-Tetrachloroethane	25	BDL	BDL
Trichloropropane	25	BDL	BDL
Bromobenzene	25	BDL	BDL
Chlorotoluene	25	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL
Benzyl chloride	100	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB
Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : HRP Associates, Inc.
Lab No. : *299158*
PO No. : HOW0015.P2
Rep. Date : 2/26/99

Date Extracted: 2/15/99
Date Tested : *2/16/99*
Analyst : DMG

EPA METHOD 602/8021B Date Samples Rec'd: 2/11/99

Matrix Type :		S	S	S	S
CTL Sample No.:		1729	1730	1731	1733
Field ID :		MW-6 (2-4')	MW-7 (0-2')	MW-8 (0-2')	MW-9 (4-6')
	MDL				
Benzene	20	BDL	BDL	BDL	BDL
Toluene	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
Ethyl Benzene	25	BDL	BDL	BDL	BDL
P & M Xylene	25	BDL	BDL	BDL	BDL
O-Xylene	25	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB
Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: HRP Associates, Inc.	Date Extracted:	2/15/99
Lab No.	: 299158	Date Tested	: 2/16/99
PO No.	: HOW0015.P2	Analyst	: DMG
Rep. Date	: 2/26/99		

EPA METHOD 602/8021B Date Samples Rec'd: 2/11/99

Matrix Type :		S	S	S	S
CTL Sample No.:		1734	1735	1736	1737
Field ID :		TB-3 (0-2')	TB-4 (4-6')	TB-5 (4-6')	TB-6 (0-2')
	MDL				
Benzene	20	BDL	BDL	BDL	BDL
Toluene	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
Ethyl Benzene	25	BDL	BDL	BDL	BDL
P & M Xylene	25	BDL	BDL	BDL	BDL
O-Xylene	25	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: HRP Associates, Inc.	Date Extracted:	2/15/99
Lab No.	: 299158	Date Tested	: 2/16/99
PO No.	: HOW0015.P2	Analyst	: DMG
Rep. Date	: 2/26/99		

EPA METHOD 602/8021B Date Samples Rec'd: 2/11/99

Matrix Type :		S	S	S	S
CTL Sample No.:		1738	1739	1740	1741
Field ID :		TB-7 (2-4')	MW-11 (0-2')	MW-12 (0-2')	MW-13 (0-2')
	MDL				
Benzene	20	BDL	BDL	BDL	BDL
Toluene	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
Ethyl Benzene	25	BDL	BDL	BDL	BDL
P & M Xylene	25	BDL	BDL	BDL	BDL
O-Xylene	25	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client	: HRP Associates, Inc.	Date Extracted:	2/15/99
Lab No.	: 299158	Date Tested	: 2/16/99
PO No.	: HOW0015.P2	Analyst	: DMG
Rep. Date	: 2/26/99		

EPA METHOD 602/8021B Date Samples Rec'd: 2/11/99

Matrix Type :		S	S
CTL Sample No.:		1742	1743
Field ID :		MW-14 (2-4')	MW-15 (2-4')
	MDL		
Benzene	20	BDL	BDL		
Toluene	25	BDL	BDL		
Chlorobenzene	25	BDL	BDL		
Ethyl Benzene	25	BDL	BDL		
P & M Xylene	25	BDL	BDL		
O-Xylene	25	BDL	BDL		
1,4-Dichlorobenzene	25	BDL	BDL		
1,3-Dichlorobenzene	25	BDL	BDL		
1,2-Dichlorobenzene	25	BDL	BDL		

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB

Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

299158

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Phone: 860-793-6899
Fax: 860-793-6871

HRP

CHAIN OF CUSTODY

Sheet 1 of 2
Job Number HOW0015.P2
Project Manager HSH

Place & Address of Collection: Howe Furniture, Norwalk, CT
Samplers Name (Signature): Kurt P. Haas

Sample I.D.	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Matrix	Remarks
mw-6	(2'-4')	GL	9oz jar	Cool	2/5/99		S	
mw-7	(0'-2')				2/5			
mw-8	(0'-2')				2/8			
mw-9	(0'-2')				2/8			
mw-9	(4'-6')				2/8			
TB-3	(0'-2')				2/8			
TB-4	(4'-6')				2/9			
TB-5	(4'-6')				2/9			
TB-6	(0'-2')				2/9			
TB-7	(2'-4')				2/9			

Relinquished By (Signature): Kurt P. Haas — Received By (Signature): M. McClellan — Date 2/11/99 — Time 3:45
Relinquished By (Signature) — Received By (Signature) — Date — Time
Name & Address of Laboratory: CTL - Meriden, CT

Parameters	Sample ID									
	mw-6(2-4)	mw-7(0-2	mw-8(0-2'	mw-9(0-2'	mw-9(4'-6'	TB-3(0'-2'	TB-4(4'-6'	TB-5(4'-6'	TB-6(0'-2'	TB-7(2'-4'
8021B(HVOC+AVOC	✓ X	X	X	no	X	X	X	X	X	X
TPH 418.1 ✓	X	X	X		X	X	X	X	X	X
RCRA metals- ✓	X	X	X	X	X	X	X	X	X	X
arsenic, barium,										
cadmium, chromium,										
lead, mercury,										
selenium, silver										
by mass analysis										

Remarks:

Abbreviations: G - Glass P - Plastic A - Amber T - TCLP Analysis M - Mass Analysis S - SPLP Analysis

g:\mh\forms\chain2.ml White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File

№ 09943

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Phone: 860-793-6899
Fax: 860-793-6871

HRP

CHAIN OF CUSTODY

Sheet 2 of 2

Job Number HOW 0015.P2

Project Manager HSH

Place & Address of Collection: Howe Furniture, Norwalk, CT

Samplers Name (Signature): Kurt P. Haas

Sample I.D.	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Matrix	Remarks
MW-11(0'-2')		6l.	1/2 jar	Cool	2/9/99		S	
MW-12(0'-2')		"	"	"	2/9/99		"	
MW-13(0'-2')		"	"	"	2/10/99		"	
MW-14(2'-4')		"	"	"	2/10/99		"	
MW-15(2'-4')		"	"	"	2/10/99		"	

Relinquished By (Signature): Kurt P. Haas	Received By (Signature): Mark Cronston	Date: 2/6/99	Time: 3:45
Relinquished By (Signature):	Received By (Signature):	Date:	Time:

Name & Address of Laboratory: CTL- Meriden, CT

Parameters	Sample ID									
	MW-11(0-2)	MW-12(0-2)	MW-13(0-2)	MW-14(2-4)	MW-15(2-4)					
8021D (HNU+AVOC)	X	X	X	X	X					
TPH 418.1	X	X	X	X	X					
Rcra metals: arsenic, barium, cadmium, chromium, lead, mercury, Selenium, Silver by mass Analysis	X	X	X	X	X					

Remarks:

Abbreviations: G = Glass P = Plastic A = Amber T = TCLP Analysis M = Mass Analysis S = SPLP Analysis

g:\hrf\forms\chain2.rtf White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File

№ 09944

RECEIVED
FEB 25 1999
HRP ASSOCIATES, INC.

February 18, 1999

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062

Attn: Ms. Pat Terwilliger

Please find attached laboratory report(s) for the samples submitted on: **February 05, 1999.**

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 299082
PO/Job No. : HOW0015.P2
Invoice No. : 1000000602
Customer No. : 350

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER ■ SOIL ■ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ■ 203/634-3731
165 GRACEY AVENUE ■ MERIDEN, CT ■ 06451

Date Samples Received : 2/5/99

Client Name: HRP Associates, Inc. CTL Lab. No. 299082
Report Date: 2/18/99 PO/Job No. HOW0015.P2

RESULTS OF ANALYSIS

Mass Analysis EPA 3050A

Matrix Type:	S	S	S	S
CTL Sample No.:	1446	1448	1449	1451
Field Id.:	TB-1 0-2'	TB-2 0-2'	MW-1 0-2'	MW-3 0-2'
Arsenic-mg/L	3.1	5.8	7.2	4.0
Barium-mg/L	41	57	113	48
Cadmium-mg/L	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Chromium, Total-mg/L	21.5	17.2	28.9	14.1
Lead-mg/L	13.5	6.9	9.0	10.6
Mercury-mg/L	0.23	ND<0.02	ND<0.02	ND<0.02
Selenium-mg/L	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Silver-mg/L	ND<0.2	ND<0.2	ND<0.2	ND<0.2

Matrix Type:	S	S	S	
CTL Sample No.:	1452	1453	1454	
Field Id.:	MW-4 2-4'	MW-5 2-4'	MW-2 0-2'	
Arsenic-mg/L	3.1	1.9	4.3	
Barium-mg/L	68	25	37	
Cadmium-mg/L	ND<0.5	ND<0.5	ND<0.5	
Chromium, Total-mg/L	17.3	7.3	12.0	
Lead-mg/L	17.8	2.6	8.7	
Mercury-mg/L	0.08	0.03	0.02	
Selenium-mg/L	ND<0.5	ND<0.5	ND<0.5	
Silver-mg/L	ND<0.2	ND<0.2	ND<0.2	

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

Date Samples Received : 2/5/99

Client Name: HRP Associates, Inc. CTL Lab. No. 299082
Report Date: 2/18/99 PO/Job No. HOW0015.P2

RESULTS OF ANALYSIS

EPA 418.1

Matrix Type: S

Field Id.	CTL #	Oil & Grease (TPH)-ppm
TB-1, 6-8'	1447	ND<25
TB-2, 0-2'	1448	ND<25
MW-1, 0-2'	1449	ND<25
MW-2, 6-8'	1450	ND<25
MW-3, 0-2'	1451	ND<25
MW-4, 2-4'	1452	ND<25
MW-5, 2-4'	1453	44

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

Client : HRP Associates, Inc.
Lab No. : 299082
PO No. : HOW0015.P2
Rep. Date : 2/18/99
Date Extracted: 2/8/99
Date Tested : 2/8/99
Analyst : DMG

EPA METHOD 601/8021B Date Samples Rec'd: 2/5/99

Matrix Type :		S	S	S	S
CTL Sample No.:		1447	1448	1449	1450
Field ID :	MDL	TB-1, 6-8'	TB-2, 0-2'	MW-1, 0-2'	MW-2, 6-8'
Chloromethane	25	BDL	BDL	BDL	BDL
Vinylchloride	25	BDL	BDL	BDL	BDL
Bromomethane	25	BDL	BDL	BDL	BDL
Chloroethane	25	BDL	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL	BDL
1,1-Dichloroethylene	25	BDL	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethylene	25	BDL	BDL	BDL	BDL
1,1-Dichloroethane	25	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethylene	25	BDL	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	25	BDL	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL	BDL
1,2-Dichloroethane	25	BDL	BDL	BDL	BDL
Trichloroethylene	25	BDL	BDL	BDL	BDL
1,2-Dichloropropane	25	BDL	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropylene	25	BDL	BDL	BDL	BDL
trans-1,3Dichloropropylene	25	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	25	BDL	BDL	BDL	BDL
Tetrachloroethylene	25	BDL	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
bis(2-Chloroethoxy)methane	100	BDL	BDL	BDL	BDL
bis(2Chloroisopropyl)ether	100	BDL	BDL	BDL	BDL
Chloromethyl methyl ether	100	BDL	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	25	BDL	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL	BDL	BDL
Benzyl chloride	100	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below BDLection LBDLI/UNITS=BDLB
Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : HRP Associates, Inc.
Lab No. : 299082
PO No. : HOW0015.P2
Rep. Date : 2/18/99
Date Extracted: 2/8/99
Date Tested : 2/8/99
Analyst : DMG

EPA METHOD 601/8021B Date Samples Rec'd: 2/5/99

Matrix Type :		S	S	S
CTL Sample No.:		1451	1452	1453
Field ID :	MDL	MW-3, 0-2'	MW-4, 2-4'	MW-5, 2-4'
Chloromethane	25	BDL	BDL	BDL
Vinylchloride	25	BDL	BDL	BDL
Bromomethane	25	BDL	BDL	BDL
Chloroethane	25	BDL	BDL	BDL
Trichlorofluoromethane	25	BDL	BDL	BDL
1,1-Dichloroethylene	25	BDL	BDL	BDL
Methylenechloride	25	BDL	BDL	BDL
trans-1,2-Dichloroethylene	25	BDL	BDL	BDL
1,1-Dichloroethane	25	BDL	BDL	BDL
cis-1,2-Dichloroethylene	25	BDL	BDL	BDL
Chloroform	25	BDL	BDL	BDL
1,1,1-Trichloroethane	25	BDL	BDL	BDL
Carbontetrachloride	25	BDL	BDL	BDL
1,2-Dichloroethane	25	BDL	BDL	BDL
Trichloroethylene	25	BDL	BDL	BDL
1,2-Dichloropropane	25	BDL	BDL	BDL
Bromodichloromethane	25	BDL	BDL	BDL
2-Chlorethylvinylether	25	BDL	BDL	BDL
Dibromomethane	25	BDL	BDL	BDL
cis-1,3-Dichloropropylene	25	BDL	BDL	BDL
trans-1,3Dichloropropylene	25	BDL	BDL	BDL
1,1,2-Trichloroethane	25	BDL	BDL	BDL
Tetrachloroethylene	25	BDL	BDL	BDL
Dibromochloromethane	25	BDL	BDL	BDL
1-Chlorohexane	25	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL
bis(2-Chloroethoxy)methane	100	BDL	BDL	BDL
bis(2Chloroisopropyl)ether	100	BDL	BDL	BDL
Chloromethyl methyl ether	100	BDL	BDL	BDL
Bromoform	25	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	25	BDL	BDL	BDL
Trichloropropane	25	BDL	BDL	BDL
Bromobenzene	25	BDL	BDL	BDL
Chlorotoluene	25	BDL	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL	BDL
Benzyl chloride	100	BDL	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB
Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : HRP Associates, Inc.
Lab No. : 299082
PO No. : HOW0015.P2
Rep. Date : 2/18/99
Date Extracted: 2/8/99
Date Tested : 2/8/99
Analyst : DMG

EPA METHOD 602/8021B Date Samples Rec'd: 2/5/99

Matrix Type :		S	S	S	S
CTL Sample No.:		1447	1448	1449	1450
Field ID :	MDL	TB-1, 6-8'	TB-2, 0-2'	MW-1, 0-2'	MW-2, 6-8'
Benzene	20	BDL	BDL	BDL	BDL
Toluene	25	BDL	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL	BDL
Ethyl Benzene	25	BDL	BDL	BDL	BDL
P & M Xylene	25	BDL	BDL	BDL	BDL
O-Xylene	25	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB
Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

Client : HRP Associates, Inc.
Lab No. : 299082
PO No. : HOW0015.P2
Rep. Date : 2/18/99
Date Extracted: 2/8/99
Date Tested : 2/8/99
Analyst : DMG

EPA METHOD 602/8021B Date Samples Rec'd: 2/5/99

Matrix Type :		S	S	S
CTL Sample No.:		1451	1452	1453
Field ID :	MDL	MW-3, 0-2'	MW-4, 2-4'	MW-5, 2-4'
Benzene	20	BDL	BDL	BDL
Toluene	25	BDL	BDL	BDL
Chlorobenzene	25	BDL	BDL	BDL
Ethyl Benzene	25	BDL	BDL	BDL
P & M Xylene	25	BDL	BDL	BDL
O-Xylene	25	BDL	BDL	BDL
1,4-Dichlorobenzene	25	BDL	BDL	BDL
1,3-Dichlorobenzene	25	BDL	BDL	BDL
1,2-Dichlorobenzene	25	BDL	BDL	BDL

MDL= Minimum Detectable Level/BDL= Below Detection Level/UNITS= PPB
Matrix Type: W= Water/Aqueous S= Soil/Solid O= Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC.
165 Gracey Avenue / Meriden, CT 06451-2268
(203)-634-3731
Connecticut Certification No. PH-0547

299082

HRP Associates, Inc. 167 New Britain Avenue Plainville, CT 06062 Phone: 860-793-6899 Fax: 860-793-6871	**HRP** CHAIN OF CUSTODY	Sheet 1 of 1 Job Number HOW 0015.P2 Project Manager [illegible]

Place & Address of Collection: 151 Woodward Ave, Norwalk, CT

Samplers Name (Signature):

Sample I.D.	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Matrix	Remarks
TB-1	0-2	glass	80z	cool	2/2/99		soil	
TB-1	6-8'							
TB-2	0-2							
MW-1	0-2				↓			
MW-2	6-8.0'				2/3/99			
MW-3	0-2				2/4/99			
MW-4	2-4'				2/4/99			
MW-5	2-4'	↓	↓		2/4/99		↓	
MW-2	0-2'				2/4/99			

Relinquished By (Signature)		Received By (Signature)	Date 2/5/99	Time 2:30
Relinquished By (Signature)		Received By (Signature)	Date 2/5/99	Time 5:20

Name & Address of Laboratory: CTL Meriden, CT

Parameters	Sample ID									
	TB-1 0-2	TB-1 6-8	TB-2 0-2	TRIP 0-2	MW-2 6-8	MW-3 0-2	MW-4 2-4	MW-5 2-4	MW-2 0-2	
8021B		X	X	X	X	X	X	X	X	
TPH 418.1		X	X	X	X	X	X	X	X	
8 RCRA metals mass	X		X	X		X	X	X	X	

Remarks: RCRA metals arsenic, barium, cadmium, chromium (tot.), lead, mercury, selenium, silver by mass

Abbreviations: G - Glass P - Plastic A - Amber T - TCLP Analysis M - Mass Analysis S - SPLP Analysis

g:\hrf\forms\chain2.mb White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File

№ 09928

RECEIVED
MAR 11 1999
HRP ASSOCIATES, INC.

March 09, 1999

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Attn: Ms. Pat Terwilliger

Please find attached laboratory report(s) for the samples submitted on:
March 01, 1999.

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing or the test results, please have the following information readily available:

Lab No. : 399004
PO/Job No. : HOW0015.P2
Invoice No. : 1000000861
Customer No. : 350

Please contact us if you have any questions.

Very truly yours,

Stephen J. Franco
Laboratory Director
PH-0547

connecticut testing laboratories inc.
WATER ■ SOIL ■ AIR

STEPHEN J. FRANCO
Laboratory Director
PHONE ■ 203/634-3731
165 GRACEY AVENUE ■ MERIDEN, CT ■ 06451

Date Samples Received : 2/5& 2/11/99
Date Samples Reactivated: 3/1/99

Client Name: **HRP Associates, Inc.** CTL Lab. No. 399004
Report Date: 3/8/99 PO/Job No. HOW0015.P2

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type:	S	S	S	S
CTL Sample No.:	1448	1449	1730	1732
Field Id.:	TB-2	MW-1	MW-7	MW-9
Arsenic-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Barium-mg/L	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Cadmium-mg/L	ND<0.005	ND<0.005	ND<0.005	ND<0.005
Chromium, Total-mg/L	ND<0.05	ND<0.05	ND<0.05	ND<0.05
Lead-mg/L	ND<0.005	ND<0.005	ND<0.005	ND<0.005
Mercury-mg/L	ND<0.002	ND<0.002	ND<0.002	ND<0.002
Selenium-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01
Silver-mg/L	ND<0.01	ND<0.01	ND<0.01	ND<0.01

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

Date Samples Received : 2/5& 2/11/99
Date Samples Reactivated: 3/1/99

Client Name: **HRP Associates, Inc.** CTL Lab. No. 399004
Report Date: 3/8/99 PO/Job No. HOW0015.P2

RESULTS OF ANALYSIS

SPLP EPA 1312

Matrix Type:	S	S		
CTL Sample No.:	1734	1736		
Field Id.:	TB-3	TB-4		
Arsenic-mg/L	ND<0.05	ND<0.05		
Barium-mg/L	ND<0.5	ND<0.5		
Cadmium-mg/L	ND<0.005	ND<0.005		
Chromium, Total-mg/L	ND<0.05	ND<0.05		
Lead-mg/L	ND<0.005	0.006		
Mercury-mg/L	ND<0.002	ND<0.002		
Selenium-mg/L	ND<0.01	ND<0.01		
Silver-mg/L	ND<0.01	ND<0.01		

Matrix Types : W = Water/Aqueous
S = Soil/Solid
O = Oil/Hydrocarbons

MITKEM CORPORATION

"Environmental Testing For The New Millennium"

September 18, 2002

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Attn: Ms. Melody Bova

RE: Client Project: Former Howe Furniture Site
Mitkem Lab Project # A1243

Dear Ms. Bova:

Enclosed please find the data report of the required analyses for the samples associated with the above referenced project. A copy of the full report has also been forwarded to Mr. Glenn Esler of Environmental Standards, Inc.

If you have any questions regarding this report, please call me.

We appreciate your business.

Sincerely,

Edward A. Lawler
Laboratory Operations Manager

CC: Glenn Esler, Environmental Standards, Inc.

175 Metro Center Boulevard • Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499 • www.mitkem.com

Analytical Data Package for HRP Associates, Inc.

Client Project: Former Howe Furniture Site

Mitkem Project ID: A1243

September 18, 2002

2. Volatile Analysis:

Surrogate recovery: recoveries were within the QC limits.

Lab control sample/lab control sample duplicate: spike recoveries were within the QC limits.

Sample analysis: samples MW-34, MW-35 and MW-40 were reanalyzed at dilution due to *concentrations exceeding the calibration range of the instrument*. No other unusual observation was made for the analyses.

3. Semivolatile Analysis:

Surrogate recovery: recoveries were within the QC limits with the exception of high recoveries of two surrogates in one method blank. This method blank and the associated samples were not re-extracted as the high recovery indicates potential high bias, and no target compounds were detected above the reporting limit in the blank or in any associated sample.

Lab control sample/lab control sample duplicate: spike recoveries were within the QC *limits with the exception of marginally high* recovery of one compound in S1GLCS.

Sample analysis: no unusual observation was made for the analyses.

4. Metals Analysis:

Due to the number of samples in this submittal, metals results are organized into two SDGs, each with their own associated QC. The "A" and "B" metals SDGs are each preceded by a yellow report section divider.

Lab control sample: spike recoveries were within the QC limits.

Matrix spike: matrix spike analysis was performed for ICP metals on sample MW-6, and mercury on sample 12MW25 in the "A" SDG, and for mercury on sample MW-19M in the "B" SDG. Spike recoveries were within QC limits. Please note that the preparation batch for ICP metals in the "B" SDG included a matrix spike on a sample from a different Mitkem project. These ICP spike results are not included in the data report forms.

Matrix duplicate: matrix duplicate analysis was performed for ICP metals on sample MW-6, and mercury on sample 12MW25 in the "A" SDG, and for mercury on sample MW-19M in the "B" SDG. Replicate RPDs were within the QC limits. Barium,

chromium, lead and nickel were incorrectly flagged on Form 1's and Form 6 for sample MW-6 due to software issues. Manual corrections were made to these forms. Please note that the preparation batch for ICP metals in the "B" SDG included a duplicate analysis on a sample from a different Mitkem project. These ICP duplicate results are not included in the data report forms.

Sample analysis: no other unusual observation was noted for the analysis.

5. Connecticut Extractable Total Petroleum Hydrocarbons (ETPH):

Due to the number of samples in this submittal, ETPH results are organized into two SDGs, each with their own associated QC. The "A" and "B" ETPH SDGs are each preceded by a pink report section divider.

Surrogate recovery: recoveries were within QC limits of 20% to 115%. Please note that relatively low surrogate recoveries are typical for aqueous sample analysis using this method.

Lab control sample: spike recoveries were within the QC limits of 27% to 134%.

Sample analysis: no unusual observation was made for the analyses.

6. Conventional Wet Chemistry Parameters:

The analyses pH and chloride were performed on these samples.

QC acceptance criteria were achieved for all analyses associated with these samples. Raw analysis data follow the analysis report and QC summary forms.

7. Subcontracted Analyses:

The analyses fluoride and specific conductance were subcontracted to Rhode Island Analytical Laboratories of Warwick, RI.

Results are summarized on Mitkem data sheets. The entire RIAL report, including associated raw analysis data follow the result summary sheets. Any notes on the analyses are included in the RIAL report.

The pages in this report have been numbered consecutively, starting from this narrative and ending with a page saying only "Last Page of Data Report".

I certify that this data package is in compliance, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Edward A. Lawler
Laboratory Operations Manager
9/18/02

000003

MITKEM CORPORATION

"Environmental Testing For The New Millennium"

September 18, 2002

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Attn: Ms. Melody Bova

RE: Client Project: Former Howe Furniture Site
Mitkem Lab Project # A1243

Dear Ms. Bova:

Enclosed please find the data report of the required analyses for the samples associated with the above referenced project. A copy of the full report has also been forwarded to *Mr. Glenn Esler of Environmental Standards, Inc.*

If you have any questions regarding this report, please call me.

We appreciate your business.

Sincerely,

Edward A. Lawler
Laboratory Operations Manager

CC: Glenn Esler, Environmental Standards, Inc.

175 Metro Center Boulevard • Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499 • www.mitkem.com

Analytical Data Package for HRP Associates, Inc.

Client Project: Former Howe Furniture Site

Mitkem Project ID: A1243

September 18, 2002

2. Volatile Analysis:

Surrogate recovery: recoveries were within the QC limits.

Lab control sample/lab control sample duplicate: spike recoveries were within the QC limits.

Sample analysis: samples MW-34, MW-35 and MW-40 were reanalyzed at dilution due to concentrations exceeding the calibration range of the instrument. No other unusual observation was made for the analyses.

3. Semivolatile Analysis:

Surrogate recovery: recoveries were within the QC limits with the exception of high recoveries of two surrogates in one method blank. This method blank and the associated samples were not re-extracted as the high recovery indicates potential high bias, and no target compounds were detected above the reporting limit in the blank or in any associated sample.

Lab control sample/lab control sample duplicate: spike recoveries were within the QC limits with the exception of marginally high recovery of one compound in S1GLCS.

Sample analysis: no unusual observation was made for the analyses.

4. Metals Analysis:

Due to the number of samples in this submittal, metals results are organized into two SDGs, each with their own associated QC. The "A" and "B" metals SDGs are each preceded by a yellow report section divider.

Lab control sample: spike recoveries were within the QC limits.

Matrix spike: matrix spike analysis was performed for ICP metals on sample MW-6, and mercury on sample 12MW25 in the "A" SDG, and for mercury on sample MW-19M in the "B" SDG. Spike recoveries were within QC limits. Please note that the preparation batch for ICP metals in the "B" SDG included a matrix spike on a sample from a different Mitkem project. These ICP spike results are not included in the data report forms.

Matrix duplicate: matrix duplicate analysis was performed for ICP metals on sample MW-6, and mercury on sample 12MW25 in the "A" SDG, and for mercury on sample MW-19M in the "B" SDG. Replicate RPDs were within the QC limits. Barium,

000002

chromium, lead and nickel were incorrectly flagged on Form 1's and Form 6 for sample MW-6 due to software issues. Manual corrections were made to these forms. Please note that the preparation batch for ICP metals in the "B" SDG included a duplicate analysis on a sample from a different Mitkem project. These ICP duplicate results are not included in the data report forms.

Sample analysis: no other unusual observation was noted for the analysis.

5. Connecticut Extractable Total Petroleum Hydrocarbons (ETPH):

Due to the number of samples in this submittal, ETPH results are organized into two SDGs, each with their own associated QC. The "A" and "B" ETPH SDGs are each preceded by a pink report section divider.

Surrogate recovery: recoveries were within QC limits of 20% to 115%. Please note that relatively low surrogate recoveries are typical for aqueous sample analysis using this method.

Lab control sample: spike recoveries were within the QC limits of 27% to 134%.

Sample analysis: no unusual observation was made for the analyses.

6. Conventional Wet Chemistry Parameters:

The analyses pH and chloride were performed on these samples.

QC acceptance criteria were achieved for all analyses associated with these samples. Raw analysis data follow the analysis report and QC summary forms.

7. Subcontracted Analyses:

The analyses fluoride and specific conductance were subcontracted to Rhode Island Analytical Laboratories of Warwick, RI.

Results are summarized on Mitkem data sheets. The entire RIAL report, including associated raw analysis data follow the result summary sheets. Any notes on the analyses are included in the RIAL report.

The pages in this report have been numbered consecutively, starting from this narrative and ending with a page saying only *"Last Page of Data Report"*.

I certify that this data package is in compliance, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Edward A. Lawler
Laboratory Operations Manager
9/18/02

*Mitkem and Client Sample ID Summary Report**

Mitkem Workorder: A1243
Client Name: HRP Associates

Mitkem Sample ID	*Reported Client Sample ID*	*Full Client Sample ID*
A1243-01A	MW-6	
A1243-01B	MW-6	
A1243-01C	MW-6	
A1243-02A	MW-19M	
A1243-02B	MW-19M	
A1243-02C	MW-19M	
A1243-02D	MW-19M	
A1243-02E	MW-19M	
A1243-03A	MW-19D	
A1243-03B	MW-19D	
A1243-03C	MW-19D	
A1243-03D	MW-19D	
A1243-03E	MW-19D	
A1243-04A	MW-34	
A1243-04B	MW-34	
A1243-04C	MW-34	
A1243-04D	MW-34	
A1243-04E	MW-34	
A1243-04F	MW-34	
A1243-05A	MW-40	
A1243-06A	MW-15	
A1243-06B	MW-15	
A1243-06C	MW-15	
A1243-06D	MW-15	
A1243-07A	MW-8	
A1243-07B	MW-8	
A1243-07C	MW-8	
A1243-07D	MW-8	
A1243-08A	MW-7	
A1243-08B	MW-7	
A1243-08C	MW-7	
A1243-08D	MW-7	
A1243-08E	MW-7	
A1243-09A	MW-41	
A1243-10A	MW-30	
A1243-10B	MW-30	
A1243-10C	MW-30	
A1243-10D	MW-30	
A1243-11A	MW-35	
A1243-11B	MW-35	

** If client sample ID has not been truncated, the full client sample ID is listed in the column labeled "Reported Client Sample ID"*

Mitkem Sample ID	*Reported Client Sample ID*	*Full Client Sample ID*
A1243-11C	MW-35	
A1243-11D	MW-35	
A1243-11E	MW-35	
A1243-11F	MW-35	
A1243-12A	MW-26	
A1243-12B	MW-26	
A1243-13A	20AUG02-GW-T	
A1243-14A	MW-9	
A1243-14B	MW-9	
A1243-15A	MW-13	
A1243-15B	MW-13	
A1243-15C	MW-13	
A1243-15D	MW-13	
A1243-15E	MW-13	
A1243-16A	MW-26	
A1243-16B	MW-26	
A1243-16C	MW-26	
A1243-16D	MW-26	
A1243-16E	MW-26	
A1243-17A	13MW11	AOC13-GW-MW-11
A1243-17B	13MW11	AOC13-GW-MW-11
A1243-17C	13MW11	AOC13-GW-MW-11
A1243-17D	13MW11	AOC13-GW-MW-11
A1243-17E	13MW11	AOC13-GW-MW-11
A1243-17F	13MW11	AOC13-GW-MW-11
A1243-18A	13MW33	AOC13-GW-MW-33
A1243-18B	13MW33	AOC13-GW-MW-33
A1243-18C	13MW33	AOC13-GW-MW-33
A1243-18D	13MW33	AOC13-GW-MW-33
A1243-18E	13MW33	AOC13-GW-MW-33
A1243-18F	13MW33	AOC13-GW-MW-33
A1243-19A	7MW42	AOC-GW-T-MW-42
A1243-20A	EMW36	AOC-GW-E-MW-36
A1243-20B	EMW36	AOC-GW-E-MW-36
A1243-20C	EMW36	AOC-GW-E-MW-36
A1243-20D	EMW36	AOC-GW-E-MW-36
A1243-20E	EMW36	AOC-GW-E-MW-36
A1243-20F	EMW36	AOC-GW-E-MW-36
A1243-21A	TMW43	AOC-GW-T-MW-43
A1243-22A	3MW9	AOC3-GW-MW-9
A1243-23A	6MW9	AOC6-GW-MW-9
A1243-24A	6MW29	AOC6-GW-MW-29
A1243-24B	6MW29	AOC6-GW-MW-29
A1243-24C	6MW29	AOC6-GW-MW-29

** If client sample ID has not been truncated, the full client sample ID is listed in the column labeled "Reported Client Sample ID"*

Mitkem Sample ID	Reported Client Sample ID	Full Client Sample ID
A1243-24D	6MW29	AOC6-GW-MW-29
A1243-24E	6MW29	AOC6-GW-MW-29
A1243-25A	2MW26	AOC2-GW-MW-26
A1243-26A	2MW13	AOC2-GW-MW-13
A1243-27A	3MW19M	AOC3-GW-MW-19M
A1243-28A	3MW27	AOC3-GW-MW-27
A1243-28B	3MW27	AOC3-GW-MW-27
A1243-28C	3MW27	AOC3-GW-MW-27
A1243-28D	3MW27	AOC3-GW-MW-27
A1243-28E	3MW27	AOC3-GW-MW-27
A1243-28F	3MW27	AOC3-GW-MW-27
A1243-29A	7MW8	AOC7-GW-MW-8
A1243-30A	MW15	AOC-GW-MW-15
A1243-31A	7MW30	AOC7-GW-MW-30
A1243-32A	5MW28	AOC5-GW-MW-28
A1243-33A	12MW17	AOC1+12-GW-MW-17
A1243-33B	12MW17	AOC1+12-GW-MW-17
A1243-33C	12MW17	AOC1+12-GW-MW-17
A1243-33D	12MW17	AOC1+12-GW-MW-17
A1243-33E	12MW17	AOC1+12-GW-MW-17
A1243-33F	12MW17	AOC1+12-GW-MW-17
A1243-34A	MW14	AOC-GW-MW-14
A1243-34B	MW14	
A1243-34C	MW14	
A1243-34D	MW14	
A1243-34E	MW14	
A1243-35A	MW44	AOC-GW-MW-44
A1243-36A	MW45	AOC-GW-MW-45
A1243-37A	MW37	AOC-GW-MW-37
A1243-37B	MW37	AOC-GW-MW-37
A1243-37C	MW37	AOC-GW-MW-10
A1243-37D	MW37	AOC-GW-MW-37
A1243-37E	MW37	AOC-GW-MW-37
A1243-37F	MW37	AOC-GW-MW-37
A1243-38A	MW10	AOC-GW-MW-10
A1243-38B	MW10	AOC-GW-MW-10
A1243-38C	MW10	AOC-GW-MW-10
A1243-38D	MW10	AOC-GW-MW-10
A1243-38E	MW10	AOC-GW-MW-10
A1243-39A	MW16	AOC-GW-MW-16
A1243-39B	MW16	AOC-GW-MW-16
A1243-39C	MW16	AOC-GW-MW-16
A1243-39D	MW16	AOC-GW-MW-16
A1243-39E	MW16	AOC-GW-MW-16

* *If client sample ID has not been truncated, the full client sample ID is listed in the column labeled "Reported Client Sample ID"*

7 6 9/18/02

Mitkem Sample ID	Reported Client Sample ID	Full Client Sample ID
A1243-40A	12MW20	AOC1+12-GW-MW-20
A1243-40B	12MW20	AOC1+12-GW-MW-20
A1243-40C	12MW20	AOC1+12-GW-MW-20
A1243-40D	12MW20	AOC1+12-GW-MW-20
A1243-40E	12MW20	AOC1+12-GW-MW-20
A1243-40F	12MW20	AOC1+12-GW-MW-20
A1243-41A	12MW25	AOC1+12-GW-MW-25
A1243-41B	12MW25	AOC1+12-GW-MW-25
A1243-41C	12MW25	AOC1+12-GW-MW-25
A1243-41D	12MW25	AOC1+12-GW-MW-25
A1243-41E	12MW25	AOC1+12-GW-MW-25
A1243-41F	12MW25	AOC1+12-GW-MW-25

* *If client sample ID has not been truncated, the full client sample ID is listed in the column labeled "Reported Client Sample ID"*

7

Sample Transmittal Documentation

Mitkem Corporation *18/Sep/02 15:08* **WorkOrder: A1243**

Client ID: HHP
Project: Former Home Furniture Facility HOW-0016.RA/T0
Assertion: How0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Itold	MS	SEL Storage
A1243-01A	MW-6	08/19/02 12:00	08/20/02	Aqueous	SW8260B_W		☐	☐	☐ VOA
A1243-01B	MW-6	08/19/02 12:00	08/20/02	Aqueous	SW6010B_W	RCRA8 plus Co,Ni,Zn,Mn,B	☐	☐	☑ M3
					SW7470A	RCRA8 plus Co,Ni,Zn,Mn,B	☐	☐	☐ M3
A1243-01C	MW-6	08/19/02 12:00	08/20/02	Aqueous	CTETPH_W		☐	☐	☐ E4
A1243-02A	MW-19M	08/19/02 12:00	08/20/02	Aqueous	SW8260B_W		☐	☐	☐ VOA
A1243-02B	MW-19M	08/19/02 12:00	08/20/02	Aqueous	SM4500_CL_W		☐	☐	☐ E4
					SM4500_H+		☐	☐	☐ E4
A1243-02C	MW-19M	08/19/02 12:00	08/20/02	Aqueous	COND_W		☐	☐	☐ SUB
					FLUORIDE_W		☐	☐	☐ SUB
A1243-02D	MW-19M	08/19/02 12:00	08/20/02	Aqueous	SW6010B_W	RCRA8 plus Co,Ni,Zn,Mn,B	☐	☐	☑ M3
					SW7470A	RCRA8 plus Co,Ni,Zn,Mn,B	☐	☐	☐ M3
A1243-02E	MW-19M	08/19/02 12:00	08/20/02	Aqueous	CTETPH_W		☐	☐	☐ E4

Page 1 of 19

Fwd Rep: Agnos R Ng

000009

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: H0W0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-06C	MW-15	08/20/02 12:00	08/21/02	Aqueous	SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M1
A1243-06D	MW-15	08/20/02 12:00	08/21/02	Aqueous	CTETPH_W		☐	☐	☐	E1
A1243-07A	MW-8	08/20/02 12:00	08/21/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-07B	MW-8	08/20/02 12:00	08/21/02	Aqueous	SM4500_CL_W		☐	☐	☐	E1
					SM4500_H+		☐	☐	☐	E1
A1243-07C	MW-8	08/20/02 12:00	08/21/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M1
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M1
A1243-07D	MW-8	08/20/02 12:00	08/21/02	Aqueous	CTETPH_W		☐	☐	☐	E1
A1243-08A	MW-7	08/20/02 12:00	08/21/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-08B	MW-7	08/20/02 12:00	08/21/02	Aqueous	SM4500_CL_W		☐	☐	☐	E1

000012

Client Rep: Agnes R Ng

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: H0W0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-03A	MW-19D	08/19/02 12:00	08/20/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-03B	MW-19D	08/19/02 12:00	08/20/02	Aqueous	SM4500_CL_W		☐	☐	☐	E4
					SM4500_H+		☐	☐	☐	E4
A1243-03C	MW-19D	08/19/02 12:00	08/20/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-03D	MW-19D	08/19/02 12:00	08/20/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M3
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M3
A1243-03E	MW-19D	08/19/02 12:00	08/20/02	Aqueous	CTETPH_W		☐	☐	☐	E4
A1243-04A	MW-34	08/19/02 12:00	08/20/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-04B	MW-34	08/19/02 12:00	08/20/02	Aqueous	SM4500_CL_W		☐	☐	☐	E4
					SM4500_H+		☐	☐	☐	E4

000010

Client Rep: Agnes R Ng

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: H0W0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-08B	MW-7	08/20/02 12:00	08/21/02	Aqueous	SM4500_H+		☐	☐	☐	E1
A1243-08C	MW-7	08/20/02 12:00	08/21/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M1
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M1
A1243-08D	MW-7	08/20/02 12:00	08/21/02	Aqueous	CTETPH_W		☐	☐	☐	E1
A1243-08E	MW-7	08/20/02 12:00	08/21/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-09A	MW-41	08/20/02 12:00	08/21/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-10A	MW-30	08/20/02 12:00	08/21/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-10B	MW-30	08/20/02 12:00	08/20/02	Aqueous	SM4500_CL_W		☐	☐	☐	E1
					SM4500_H+		☐	☐	☐	E1
A1243-10C	MW-30	08/20/02 12:00	08/20/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M1
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M1

000013

Client Rep: Agnes R Ng

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: H0W0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-04C	MW-34	08/19/02 12:00	08/20/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-04D	MW-34	08/19/02 12:00	08/20/02	Aqueous	SW8270C_W		☐	☐	☐	E4
A1243-04E	MW-34	08/19/02 12:00	08/20/02	Aqueous	CTETPH_W		☐	☐	☐	E4
A1243-04F	MW-34	08/19/02 12:00	08/20/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M3
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M3
A1243-05A	MW-40	08/19/02 12:00	08/20/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-06A	MW-15	08/20/02 12:00	08/21/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-06B	MW-15	08/20/02 12:00	08/21/02	Aqueous	SM4500_CL_W		☐	☐	☐	E1
					SM4500_H+		☐	☐	☐	E1
A1243-06C	MW-15	08/20/02 12:00	08/21/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M1

000011

Client Rep: Agnes R Ng

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: H0W0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-15D	MW-13	08/20/02 12:00	08/21/02	Aqueous	CTETPH_W		☐	☐	☐	E1
A1243-15E	MW-13	08/20/02 12:00	08/21/02	Aqueous	SW8270C_W		☐	☐	☐	E1
A1243-16A	MW-26	08/20/02 12:00	08/21/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-16B	MW-26	08/20/02 12:00	08/20/02	Aqueous	SM4500_CL_W		☐	☐	☐	E1
					SM4500_H+		☐	☐	☐	E1
A1243-16C	MW-26	08/20/02 12:00	08/20/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M1
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M1
A1243-16D	MW-26	08/20/02 12:00	08/21/02	Aqueous	CTETPH_W		☐	☐	☐	E1
A1243-16E	MW-26	08/20/02 12:00	08/21/02	Aqueous	SW8270C_W		☐	☐	☐	E1
A1243-17A	13MW11	08/21/02 1:03	08/22/02	Aqueous	SW8260B_W		☐	☐	☐	VOA

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: H0W0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-10D	MW-30	08/20/02 12:00	08/21/02	Aqueous	CTETPH_W		☐	☐	☐	E1
A1243-11A	MW-35	08/20/02 12:00	08/21/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-11B	MW-35	08/20/02 12:00	08/20/02	Aqueous	SM4500_CL_W		☐	☐	☐	E1
					SM4500_H+		☐	☐	☐	E1
A1243-11C	MW-35	08/20/02 12:00	08/20/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M1
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M1
A1243-11D	MW-35	08/20/02 12:00	08/21/02	Aqueous	CTETPH_W		☐	☐	☐	E1
A1243-11E	MW-35	08/20/02 12:00	08/21/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-11F	MW-35	08/20/02 12:00	08/21/02	Aqueous	SW8270C_W		☐	☐	☐	E1
A1243-12A	MW-28	08/20/02 12:00	08/21/02	Aqueous	SW8260B_W		☐	☐	☐	VOA

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: H0W0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-17B	13MW11	08/21/02 1:03	08/22/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-17C	13MW11	08/21/02 1:03	08/22/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M2
A1243-17D	13MW11	08/21/02 1:03	08/22/02	Aqueous	SM4500_CL_W		☐	☐	☐	J3
					SM4500_H+		☐	☐	☐	J3
A1243-17E	13MW11	08/21/02 1:03	08/22/02	Aqueous	SW8270C_W		☐	☐	☐	J3
A1243-17F	13MW11	08/21/02 1:03	08/22/02	Aqueous	CTETPH_W		☐	☐	☐	J3
A1243-18A	13MW33	08/21/02 1:03	08/22/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-18B	13MW33	08/21/02 1:03	08/22/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: H0W0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-12B	MW-28	08/20/02 12:00	08/21/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M1
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M1
A1243-13A	20AUG02-GW-T	08/20/02 12:00	08/21/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-14A	MW-9	08/20/02 12:00	08/21/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M1
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M1
A1243-14B	MW-9	08/20/02 12:00	08/21/02	Aqueous	CTETPH_W		☐	☐	☐	E1
A1243-15A	MW-13	08/20/02 12:00	08/21/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-15B	MW-13	08/20/02 12:00	08/20/02	Aqueous	SM4500_CL_W		☐	☐	☐	E1
					SM4500_H+		☐	☐	☐	E1
A1243-15C	MW-13	08/20/02 12:00	08/20/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M1
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M1

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: H0W0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-24C	6MW29	08/21/02 12:42	08/22/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M2
A1243-24D	6MW29	08/21/02 12:42	08/22/02	Aqueous	SM4500_CL_W		☐	☐	☐	J3
					SM4500_H+		☐	☐	☐	J3
A1243-24E	6MW29	08/21/02 12:42	08/22/02	Aqueous	CTETPH_W		☐	☐	☐	J3
A1243-25A	2MW26	08/21/02 13:50	08/22/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-26A	2MW13	08/21/02 13:50	08/22/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-27A	3MW19M	08/21/02 13:19	08/22/02	Aqueous	SW8270C_W		☐	☐	☐	J3
A1243-28A	3MW27	08/21/02 13:19	08/22/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-28B	3MW27	08/21/02 13:19	08/22/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB

000020

Client Rep: Agnes R Ng

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: H0W0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-18C	13MW33	08/21/02 1:03	08/22/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M2
A1243-18D	13MW33	08/21/02 1:03	08/22/02	Aqueous	SM4500_CL_W		☐	☐	☐	J3
					SM4500_H+		☐	☐	☐	J3
A1243-18E	13MW33	08/21/02 1:03	08/22/02	Aqueous	SW8270C_W		☐	☐	☐	J3
A1243-18F	13MW33	08/21/02 1:03	08/22/02	Aqueous	CTETPH_W		☐	☐	☐	J3
A1243-19A	TMW42	08/21/02 12:00	08/22/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-20A	EMW36	08/21/02 11:13	08/22/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-20B	EMW36	08/21/02 11:13	08/22/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-20C	EMW36	08/21/02 11:13	08/22/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M2

000018

Client Rep: Agnes R Ng

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: H0W0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-28C	3MW27	08/21/02 13:19	08/22/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M2
A1243-28D	3MW27	08/21/02 13:19	08/22/02	Aqueous	SM4500_CL_W		☐	☐	☐	J3
					SM4500_H+		☐	☐	☐	J3
A1243-28E	3MW27	08/21/02 13:19	08/22/02	Aqueous	SW8270C_W		☐	☐	☐	J3
A1243-28F	3MW27	08/21/02 13:19	08/22/02	Aqueous	CTETPH_W		☐	☐	☐	J3
A1243-29A	7MW8	08/21/02 1:58	08/22/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-30A	MW15	08/21/02 13:41	08/22/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-31A	7MW30	08/21/02 13:58	08/22/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-32A	5MW28	08/21/02 15:03	08/22/02	Aqueous	CTETPH_W		☐	☐	☐	J3
A1243-33A	12MW17	08/22/02 10:54	08/23/02	Aqueous	SW8260B_W		☐	☐	☐	VOA

000021

Client Rep: Agnes R Ng

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: H0W0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-20D	EMW36	08/21/02 11:13	08/22/02	Aqueous	SM4500_CL_W		☐	☐	☐	J3
					SM4500_H+		☐	☐	☐	J3
A1243-20E	EMW36	08/21/02 11:13	08/22/02	Aqueous	SW8270C_W		☐	☐	☐	J3
A1243-20F	EMW36	08/21/02 11:13	08/22/02	Aqueous	CTETPH_W		☐	☐	☐	J3
A1243-21A	TMW43	08/21/02 12:00	08/22/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-22A	3MW6	08/21/02 12:00	08/22/02	Aqueous	SW8270C_W		☐	☐	☐	J3
A1243-23A	6MW9	08/21/02 12:42	08/22/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-24A	6MW29	08/21/02 12:42	08/22/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-24B	6MW29	08/21/02 12:42	08/22/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB

000019

Client Rep: Agnes R Ng

Client ID: HRP | Case: | Report Level: LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T0 | SDG: | EDD: XL
Location: H0W0016RA | PO: | HC Due: 09/13/02
Comments: N/A | Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-37D	MW37	08/22/02 9:32	08/23/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M2
A1243-37E	MW37	08/22/02 9:32	08/23/02	Aqueous	CTETPH_W		☐	☐	☐	H2
A1243-37F	MW37	08/22/02 9:32	08/23/02	Aqueous	SW8270C_W		☐	☐	☐	H2
A1243-38A	MW10	08/22/02 11:00	08/23/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-38B	MW10	08/22/02 11:00	08/23/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-38C	MW10	08/22/02 11:00	08/23/02	Aqueous	SM4500_CL_W		☐	☐	☐	H2
					SM4500_H+		☐	☐	☐	H2
A1243-38D	MW10	08/22/02 11:00	08/23/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M2
					SW7470A	*RCRA8 plus Cu,Ni,Zn,Mn,B*	☐	☐	☐	*M2*

Client Rep: Agnes R Ng

Client ID: HRP | Case: | Report Level: LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T0 | SDG: | EDD: XL
Location: H0W0016RA | PO: | HC Due: 09/13/02
Comments: N/A | Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-33B	12MW17	08/22/02 10:54	08/23/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-33C	12MW17	08/22/02 10:54	08/23/02	Aqueous	SM4500_CL_W		☐	☐	☐	H2
					SM4500_H+		☐	☐	☐	H2
A1243-33D	12MW17	08/22/02 10:54	08/23/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M2
A1243-33E	12MW17	08/22/02 10:54	08/23/02	Aqueous	SW8270C_W		☐	☐	☐	H2
A1243-33F	12MW17	08/22/02 10:54	08/23/02	Aqueous	CTETPH_W		☐	☐	☐	H2
A1243-34A	MW14	08/22/02 14:16	08/23/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-34B	MW14	08/22/02 14:16	08/23/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB

Client Rep: Agnes R Ng

Client ID: HRP | Case: | Report Level: LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T0 | SDG: | EDD: XL
Location: H0W0016RA | PO: | HC Due: 09/13/02
Comments: N/A | Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-38E	MW10	08/22/02 11:00	08/23/02	Aqueous	CTETPH_W		☐	☐	☐	H2
A1243-39A	MW16	08/22/02 11:51	08/23/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-39B	MW16	08/22/02 11:51	08/23/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-39C	MW16	08/22/02 11:51	08/23/02	Aqueous	SM4500_CL_W		☐	☐	☐	H2
					SM4500_H+		☐	☐	☐	H2
A1243-39D	MW16	08/22/02 11:51	08/23/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M2
A1243-39E	MW16	08/22/02 11:51	08/23/02	Aqueous	CTETPH_W		☐	☐	☐	H2
A1243-40A	12MW20	08/22/02 13:12	08/23/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-40B	12MW20	08/22/02 13:12	08/23/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB

Client Rep: Agnes R Ng

Client ID: HRP | Case: | Report Level: LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T0 | SDG: | EDD: XL
Location: H0W0016RA | PO: | HC Due: 09/13/02
Comments: N/A | Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-34C	MW14	08/22/02 14:16	08/23/02	Aqueous	SM4500_CL_W		☐	☐	☐	H2
					SM4500_H+		☐	☐	☐	H2
A1243-34D	MW14	08/22/02 14:16	08/23/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M2
A1243-34E	MW14	08/22/02 14:16	08/23/02	Aqueous	CTETPH_W		☐	☐	☐	H2
A1243-35A	MW44	08/22/02 12:00	08/23/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-36A	MW45	08/22/02 12:00	08/23/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-37A	MW37	08/22/02 9:32	08/23/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-37B	MW37	08/22/02 9:32	08/23/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-37C	MW37	08/22/02 9:32	08/23/02	Aqueous	SM4500_CL_W		☐	☐	☐	H2
					SM4500_H+		☐	☐	☐	H2

Client Rep: Agnes R Ng

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Phone: 860-793-6899
Fax: 860-793-6871

HRP

CHAIN OF CUSTODY

Sheet 1 of 1
Job Number HOW0016.RA
Project Manager DDT

Place & Address of Collection: Former Howe Furniture
151 Woodward Ave, Norwalk, CT
Samplers Name (Signature): [signature]

Sample I.D.	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Matrix	Remarks
MW-6	monitoring well	G, P	1580	HCl, Cool, HNO3	8/19/02	P.M.	Water	
MW-19m	↓		2580	↓	↓	P.M.	↓	
MW-19d			2580			P.M.		
MW-34		↓	4580	HCl, Cool, HNO3		P.M.		
MW-40		G	80mL	HCl, Cool		A.M.		
Temp 1A		P	500mL	Cool				
Temp 1B								
Temp 1C	↓	↓	↓	↓	↓	↓	↓	

Relinquished By (Signature): [signature] — Received By (Signature): J. Davis — Date 8-20-02 — Time 11:10
Relinquished By (Signature): — Received By (Signature): — Date — Time
Name & Address of Laboratory: Mitkem

Parameters	MW-6	MW-19m	MW-19d	MW-34	MW-40	Temp 1A	Temp 1B	Temp 1C		
8260B+MTBE	X	X	X	X	X					
8270C SVOC				X						
ETPH	X	X	X	X						
Metals: (Mn, B, Zn, Ag, Se, Ni, Hg, Pb, Cu, Cd, Ba, As, Cr T, Chloride, Fluoride)	X	X	X	X						
pH		X	X	X						
Temp		X	X	X		X	X	X		
Spec Cond		X	X	X						
ORP		X	X	X						
DO		X	X	X						
Turbidity		X	X	X						

Remarks:

000027

Abbreviations: G - Glass P - Plastic A - Amber T - TCLP Analysis M - Mass Analysis S - SPLP Analysis

gvhf/forms/chain2.rhl White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File

№ 14578

Mitkem Corporation *18/Sep/02 15:08* **WorkOrder: A1243**

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: H0W0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Hold	MS	SEL	Storage
A1243-40C	12MW20	08/22/02 13:12	08/23/02	Aqueous	SM4500_CL_W		[ ]	[ ]	[ ]	H2
					SM4500_H+		[ ]	[ ]	[ ]	H2
A1243-40D	12MW20	08/22/02 13:12	08/23/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	[ ]	[ ]	X	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	[ ]	[ ]	[ ]	M2
A1243-40E	12MW20	08/22/02 13:12	08/23/02	Aqueous	CTETPH_W		[ ]	[ ]	[ ]	H2
A1243-40F	12MW20	08/22/02 13:12	08/23/02	Aqueous	SW8270C_W		[ ]	[ ]	[ ]	H2
A1243-41A	12MW25	08/22/02 13:12	08/23/02	Aqueous	SW8260B_W		[ ]	[ ]	[ ]	VOA
A1243-41B	12MW25	08/22/02 13:12	08/23/02	Aqueous	COND_W		[ ]	[ ]	[ ]	SUB
					FLUORIDE_W		[ ]	[ ]	[ ]	SUB
A1243-41C	12MW25	08/22/02 13:12	08/23/02	Aqueous	SM4500_CL_W		[ ]	[ ]	[ ]	H2
					SM4500_H+		[ ]	[ ]	[ ]	H2

0000254

Client Rep: Agnes R Ng — Page 18 of 19

MITKEM CORPORATION
175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

REPORT TO		INVOICE TO	
COMPANY HRP Associates, Inc.	PHONE 860-793-6899	COMPANY Same	PHONE
NAME Melody Bova / MaryJane Mamed	FAX 860-793-6871	NAME MaryJane Mamed	FAX
ADDRESS 167 New Britain Avenue		ADDRESS Same	
CITY/ST/ZIP Plainville, CT 06062		CITY/ST/ZIP Same	

LAB PROJECT # A1243
TURNAROUND TIME:

CLIENT PROJECT NAME: Former Howe Furniture Facility RFI
CLIENT PROJECT #: HOW0016.RA
CLIENT P.O.#:

REQUESTED ANALYSES: CT ETPH; VOCs+MTBE-8260B; B, F, Cl, Mn +; pH + Spec Cond.; Total 8RCRA+Cu,Ni,Zn; SVOCs-8270; Temp

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	CT ETPH	VOCs+MTBE-8260B	B,F,Cl,Mn +	pH + Spec Cond.	Total 8RCRA+Cu,Ni,Zn	SVOCs-8270	Temp	COMMENTS
MW-15	20AUG02			X			06	4	X		X	X	X			Preserved As Marked
MW-8	↓			↓			07	4	X		X	X	X			↓
MW-7							08	6	X	X	X	X	X			
MW-41							09	2		X	X					
MW-30							10	4	X	X	X	X	X			
MW-35							11	8	X	X	X	X	X	X		
MW-28							12	3		X			X			
20AUG02-GW-T							13	1		X						
MW-9							14	2	X				X			
MW-13							15	6	X		X	X	X	X		
MW-26							16	6	X		X	X	X	X		
Temp Blanks 2A, 2B, 2C	↓			↓				3							X	↓

TSR	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME
1	Matt Stein	20AUG02 5:30pm	Melody Bova	20AUG02 5:30pm
2	Melody Bova	21AUG02 10:55	J. Davis	8-21-02 10:55
3		/		/

ADDITIONAL REMARKS: Need Data in Excel Format - Please call to coordinate - Also, QL's must meet CT RSRs, Att. Criteria

COOLER TEMP: 4°C

WHITE: LABORATORY COPY **YELLOW**: REPORT COPY **PINK**: CLIENT'S COPY

Mitkem Corporation *18/Sep/02 15:08* **WorkOrder: A1243**

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: H0W0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Hold	MS	SEL	Storage
A1243-41D	12MW25	08/22/02 13:12	08/23/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	[ ]	[ ]	X	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	[ ]	[ ]	[ ]	M2
A1243-41E	12MW25	08/22/02 13:12	08/23/02	Aqueous	CTETPH_W		[ ]	[ ]	[ ]	H2
A1243-41F	12MW25	08/22/02 13:12	08/23/02	Aqueous	SW8270C_W		[ ]	[ ]	[ ]	H2

000026

Client Rep: Agnes R Ng — Page 19 of 19

MITKEM CORPORATION
175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

Page ___ of ___

REPORT TO			INVOICE TO		
COMPANY	HRP Assoc. Inc.	PHONE 860-793-6899	COMPANY	Same	PHONE
NAME	Melody Bova	FAX 860-793-6871	NAME		FAX
ADDRESS	167 New Britain Ave.		ADDRESS		
CITY/ST/ZIP	Plainville, CT 06062		CITY/ST/ZIP		

LAB PROJECT #: A1243
TURNAROUND TIME:

CLIENT PROJECT NAME: Former Howe Furniture Norwalk, CT
CLIENT PROJECT #: HOW0016.RA
CLIENT P.O.#:

REQUESTED ANALYSES: ETPH; SVOC's 8270C; VOC's 8260B + MTBE; RCRA 8 Metals; Conductivity; Chloride; Flouride; pH; Cu, Ni, Zn; Any Boron; Temp

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	COMMENTS
AOC3-GW-MW-11	8/21/02 1:19			✓			27	8	Preserved as marked
AOC3-GW-MW-27	1:19			✓			28	8	
AOC7-GW-MW-8	1:58			✓			29	2	
AOC-GW-MW-15	1:41			✓			30	2	
AOC7-GW-MW-30	1:58			✓			31	2	
AOC5-GW-MW-26	3:03			✓			32	1	

TSR#: 62000

RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS:	COOLER TEMP:
Kurt Sodus	8/21/02 6:32	Melody Bova	8/21/02 6:32	QL's must meet CT RSRs and Aft. Criteria	3c
Melody Bova	8/22/02	J. Stevens	8-22-02 10:55	Data needed in Excel format as well as hard copy	

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

MITKEM CORPORATION
175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

Page ___ of ___

REPORT TO			INVOICE TO		
COMPANY	HRP Assoc. Inc	PHONE 860-793-6899	COMPANY	Same	PHONE
NAME	Melody Bova	FAX 860-793-6871	NAME		FAX
ADDRESS	167 New Britain Ave		ADDRESS		
CITY/ST/ZIP	Plainville, CT 06062		CITY/ST/ZIP		

LAB PROJECT #: A1243
TURNAROUND TIME:

CLIENT PROJECT NAME: Former Howe Furniture Norwalk, CT
CLIENT PROJECT #: HOW0016.RA
CLIENT P.O.#:

REQUESTED ANALYSES: ETPH; SVOC's 8270C; VOC's 8260B + MTBE; RCRA 8 Metals; Conductivity; Chloride; Flouride; pH; Cu, Ni, Zn; Any Boron; Temp

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	COMMENTS
AOC13-GW-MW-11	8/21/02 1:03			✓			17	8	Preserved as marked
AOC13-GW-MW-33	1:03			✓			18	8	
AOC-GW-T-MW-42	— *			✓			19	2	
AOC-GW-E-MW-36	11:13			✓			20	8	
AOC-GW-T-MW-43	— *			✓			21	2	
temp blank 3A	— *							1	
temp blank 3B	— *							1	

TSR#: 62000

RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS:	COOLER TEMP:
Immaculata Klein	8/21/02 6:21	Melody Bova	8/21/02 6:21	* prep at lab	3c
Melody Bova	8/22/02	J. Stevens	8-22-02 10:55	QL's must meet CT RSRs and Aft. Criteria Data needed in Excel format as well as hard copy	

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

MITKEM CORPORATION
175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

Page 1 of ___

REPORT TO			INVOICE TO		
COMPANY	HRP Assoc. Inc	PHONE 860-793-6899	COMPANY	Same	PHONE
NAME	Melody Bova	FAX 860-793-6871	NAME		FAX
ADDRESS	167 New Britain Ave		ADDRESS		
CITY/ST/ZIP	Plainville, CT 06062		CITY/ST/ZIP		

LAB PROJECT #: A1243
TURNAROUND TIME:

CLIENT PROJECT NAME: Former Howe Furniture Norwalk, CT
CLIENT PROJECT #: HOW0016.RA
CLIENT P.O.#:

REQUESTED ANALYSES: ETPH; SVOC's 8270C; VOC's 8260B + MTBE; RCRA 8 Metals; Cu, Ni, Zn; Chloride; Flouride; Boron; Mn; Conductivity; pH; Temp

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	COMMENTS
AOC12-GW-MW-17	8/20/02 10:54			✓			33	6	Preserved as marked
AOC-GW-MW-14	8/22/02 14:16			✓			34	6	
AOC-GW-MW-44	8/22/02 *—			✓			35	2	
AOC-GW-MW-45	8/22/02 *—			✓			36	2	
AOC-GW-MW-37	8/22/02 9:32			✓			37	8	
temp blank 4A	8/22/02 *—							1	
temp blank 4B	8/22/02 *—							1	

TSR#: 62000

RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS:	COOLER TEMP:
Kurt Sodus	8/21/02 2:00	Melody Bova	8/22/02 9:40	* prep by lab	3c
Melody Bova	8-22-02 10:30	J. Stevens	8-22-02 10:30	QL's must meet CT RSRs and Aft. Criteria Data needed in Excel Format as well as hard copy	

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

MITKEM CORPORATION
175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

Page ___ of ___

REPORT TO			INVOICE TO		
COMPANY	HRP Assoc Inc	PHONE 860-793-6899	COMPANY	Same	PHONE
NAME	Melody Bova	FAX 860-793-6871	NAME		FAX
ADDRESS	167 New Britain Ave		ADDRESS		
CITY/ST/ZIP	Plainville, CT 06062		CITY/ST/ZIP		

LAB PROJECT #: A1243
TURNAROUND TIME:

CLIENT PROJECT NAME: Former Howe Furniture
CLIENT PROJECT #: HOW0016.RA
CLIENT P.O.#:

REQUESTED ANALYSES: ETPH; SVOC's 8270C; VOC's 8260B + MTBE; RCRA 8 Metals; Cu, Ni, Zn; Chloride; Flouride; pH; Conductivity; Any Boron

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	COMMENTS
AOC3-GW-MW-6	8/20/02 12:00			✓			22	2	Preserved as marked
AOC6-GW-MW-9	12:42			✓			23	2	
AOC6-GW-MW-29	12:42			✓			24	6	
AOC2-GW-MW-26	1:50			✓			25	2	
AOC2-GW-MW-13	1:50			✓			26	2	

TSR#: 62000

RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS:	COOLER TEMP:
Matthew T. Stein	8-21-02 19:17	Melody Bova	8/21/02 19:17	QL's must meet CT RSRs and Aft. Criteria	3c
Melody Bova	8/22/02	J. Stevens	8-22-02 10:55	Data needed in Excel format as well as hard copy	

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

CHAIN-OF-CUSTODY RECORD

MITKEM CORPORATION

175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

Page ___ of ___

REPORT TO: Company: HRP Assoc., Inc. | Name: 167 New Britain Ave | Address: Meloy Bond | City/St/Zip: Plainville, CT 06062 | Phone: 860-793-6529 | Fax: 860-793-6571

INVOICE TO: Company: Same | Name: | Address: | City/St/Zip: | Phone: | Fax:

CLIENT PROJECT NAME: Former Hine Furniture Norwalk, CT

CLIENT PROJECT #: HAW0616.RA

CLIENT P.O.#:

LAB PROJECT #: A1243

TURNAROUND TIME:

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	REQUESTED ANALYSES	COMMENTS
A2-GW-MW-10	8/21/02 8:00			✓			38	6	ETPH, SVOCs by 8270C, VOCs by 8260B, Chloride, Ferrous Iron, Dissolved Mn	Preserved as marked
A2-GW-MW-14	8/21/02 11:51			✓			39	6		
A2-GW-MW-25	8/21/02 13:12			✓			40	8		
A2-SB-GW-MW-25	8/21/02 13:12			✓			41	8		

RELINQUISHED BY: Matthew T. Stec — DATE/TIME: 8/21/02 16:20 — ACCEPTED BY: Meloy Bond — DATE/TIME: 8/21/02 9:00

RELINQUISHED BY: Meloy Bond — DATE/TIME: 8-22-02 10:30 — ACCEPTED BY: [illegible] — DATE/TIME: 8/22/02 10:30

ADDITIONAL REMARKS: QA's must meet CT RSR and AFA Criteria. Data needed in Excel Format as well as hard copy

COOLER TEMP: 3c

TSR: 000033

WHITE: LABORATORY COPY — YELLOW: REPORT COPY — PINK: CLIENT'S COPY

MITKEM CORPORATION
Sample Condition Form

Page 1 of 1

Received By: JRL | Reviewed By: | Date: 8/21/02 | MITKEM Project: A1243

Client Project: | Client: HRP

Condition:
1)Custody Seal(s) Present / (Absent)
(Coolers) / Bottles
(Intact) / Broken

Custody Seal Numbers

3)Chain -of- Custody (Present) / Absent

4)Airbill(s) Present (Absent)

Airbill Number(s)

5)Cooler Temperature 5°

Coolant Condition Ice

6)Sample Bottles (Intact) Broken/Leaking

7)Date Received 8/21/02

8)Time Received 2:40

Lab Sample ID	Preservation (pH) HNO3	H2SO4	HCl	NaO	VOA Matrix
A1243 -01	<2				H
A1243 -02	<2				H
A1243 -03	<2				H
A1243 -04	<2				H
A1243 -05					H

VOA Matrix Key:
US = Unpreserved Soil — A = Air
UA = Unpreserved Aqueous — H = HCl
M/N = MeOH& NaHSO4 — E=Encore
N = NaHSO4 M = MeOH

See Sample Condition Notification / Corrective Action Form yes / (no)
Comments / Remarks Rad Ok (yes) / no

000034

MITKEM CORPORATION
Sample Condition Form

Page 1 of 1

Received By: JR | Reviewed By: | Date: 8-21-02 | MITKEM Project: A1243

Client Project: FHFP I2FI Client: HRP

Condition:
1)Custody Seal(s) Present / Absent
Coolers / Bottles
Intact / Broken

Custody Seal Numbers

3)Chain -of- Custody (Present) / Absent

4)Airbill(s) Present (Absent)

Airbill Number(s) MITKEM COURIER

5)Cooler Temperature 4°

Coolant Condition ICE

6)Sample Bottles (Intact) Broken/Leaking

7)Date Received 8-21-02

8)Time Received 10:55

Lab Sample ID	Preservation (pH) HNO3	H2SO4	HCl	NaO	VOA Matrix
A1243.06	<2		<2		
A1243 07	<2		<2		
A1243 08	<2		<2		H
A1243 09			<2		H
A1243 10	<2		<2		
A1243 11	<2				H
A1243 12	<2				H
A1243 13	<2		<2		H
A1243 14	<2		<2		
A1243 15	<2		<2		
A1243.16	<2		<2		

VOA Matrix Key:
US = Unpreserved Soil — A = Air
UA = Unpreserved Aqueous — H = HCl
M/N = MeOH& NaHSO4 — E=Encore
N = NaHSO4 M = MeOH

See Sample Condition Notification / Corrective Action Form (yes) / no
Comments / Remarks Rad Ok (yes) / no

000035

MITKEM CORPORATION
Sample Condition Form

Page 1 of 1

Received By: JR | Reviewed By: | Date: 8-22-02 | MITKEM Project: A1243

Client Project: FHFN CT Client: HRP

Condition:
1)Custody Seal(s) Present / Absent
Coolers / Bottles
Intact / Broken

Custody Seal Numbers

3)Chain -of- Custody (Present) / Absent

4)Airbill(s) Present / (Absent)

Airbill Number(s) MITKEM COURIER

5)Cooler Temperature 3c

Coolant Condition Ice

6)Sample Bottles Intact/Broken/Leaking

7)Date Received 8-22-02

8)Time Received 10:55

Lab Sample ID	Preservation (pH) HNO3	H2SO4	HCl	NaO	VOA Matrix
A1243.17					
A1243.18					
A1243.19					
A1243.20					
A1243.21					
A1243.22					
A1243.23					
A1243.24					
A1243.25					
A1243.26					
A1243.27					
A1243.28					
A1243.29					
A1243.30					
A1243.31					
A1243.32					

VOA Matrix Key:
US = Unpreserved Soil — A = Air
UA = Unpreserved Aqueous — H = HCl
M/N = MeOH& NaHSO4 — E=Encore
N = NaHSO4 M = MeOH

See Sample Condition Notification / Corrective Action Form (yes) / no
Comments / Remarks Rad Ok (yes) / no

000036

MITKEM CORPORATION
Sample Condition Form

Page 1 of 1

Received By: NP | Reviewed By: | Date: 8-23-02 | MITKEM Project: A1243

Client Project: Former Howe Client: HRP

Condition:	Lab Sample ID	Preservation (pH) HNO3	H2SO4	HCl	NaO	VOA Matrix
1)Custody Seal(s) Present / Absent	A1243 35	<2		<2		H
Coolers / Bottles	A1243 34	<2		<2		
Intact / Broken	A1243 35					
Custody Seal Numbers	A1243 36					
	A1243 37	<2		<2		
	A1243 38					
	A1243 39					
	A1243 40					
	A1243 41	<2		<2		H
3)Chain -of- Custody Present / Absent						
4)Airbill(s) Present / Absent						
Airbill Number(s) Mitkem Courier						
5)Cooler Temperature 3°						
Coolant Condition Ice						
6)Sample Bottles Intact/Broken/Leaking						
7)Date Received 8-23-02						
8)Time Received 10:30						

VOA Matrix Key:
US = Unpreserved Soil, A = Air
UA = Unpreserved Aqueous, H = HCl
M/N = MeOH& NaHSO4, E=Encore
N = NaHSO4, M = MeOH

See Sample Condition Notification / Corrective Action Form (yes) no
Comments / Remarks
Rad Ok (yes) no

000037

Page 1 of 1

Sample Condition Notification

Mitkem Project#: A1243 Date of Receipt: 8-20-02
Client: HRP Received By: SK
Client project #/name: Howards Furniture

Unusual Occurance Description:

Sample # MW-6 was missing an unpreserved bottle upon receipt.

Client Contacted:
Contacted via: Phone/Fax/E-mail
Date: ____ Time: ____
Contacted By: ____
Name of person contacted: ____

Client Response:
Responded via: Phone/Fax/E-mail
Date: ____
Name of person responding: ____
Responding to: ____

Mitkem Action Taken: Analysis Report clarified w/ client 8/20/02 - PAS

000038

Page 1 of 1

Sample Condition Notification

Mitkem Project#: A1243 Date of Receipt: 8-23-02
Client: HRP Received By: NP
Client project #/name: Former Howe Furniture

Unusual Occurance Description:

Sample # A0C3-GW-MW-15M ONLY RECEIVED TWO 1 LITER BOTTLES FOR SVOC, ON COC THEY HAVE MARKED OFF ETPH, VOC, TCLP'S, COND., FL, CHLORIDE, PH.

Client Contacted:
Contacted via: Phone/Fax/E-mail
Date: 8/22/02 Time: 2:15
Contacted By: Agnes Ng
Name of person contacted: Melody

Client Response:
Responded via: Phone/Fax/E-mail
Date: 8/22/02
Name of person responding: Melody
Responding to: ____

SVOA to be analyzed only

Mitkem Action Taken: ~~analyze~~ analyze SVOA only

000039

Page 1 of 1

Sample Condition Notification

Mitkem Project#: A1243 Date of Receipt: 8-23-02
Client: HRP Received By: NP
Client project #/name: F-H-F, Norwalk, CT

Unusual Occurance Description:

Sample # A0C1-12-GW-MW-17 RECEIVED SVOC BOTTLES (2) BUT ARE MARKED OFF ON COC

Client Contacted:
Contacted via: Phone/Fax/E-mail
Date: 8/22/02 Time: ____
Contacted By: Agnes Ng
Name of person contacted: Melody Bam.

Client Response:
Responded via: Phone/Fax/E-mail
Date: 8/23/02
Name of person responding: Melody Bam
Responding to: ____

analyze for SVOA.

Mitkem Action Taken: analyze SVOA

000040

MITKEM CORPORATION

* Volatiles *

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

	EPA SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	VBLK6V	101	99	103	99	0
02	V6VLCS	99	103	101	102	0
03	V6VLCSD	100	106	103	103	0
04	MW-6	103	104	106	98	0
05	MW-19M	102	104	108	101	0
06	MW-19D	104	101	108	98	0
07	MW-34	103	100	106	99	0
08	MW-40	103	100	108	100	0
09	MW-41	102	102	108	97	0
10	MW-35	105	104	109	101	0
11	20AUG02-GW-T	103	101	108	96	0
12	VBLK6X	100	97	108	98	0
13	V6XLCS	98	104	104	102	0
14	MW-7	105	100	108	96	0
15	MW-28	104	103	109	96	0
16	MW-34DL	106	102	111	97	0
17	MW-40DL	105	98	110	95	0
18	MW-35DL	106	104	110	97	0
19	13MW11	105	101	110	96	0
20	13MW33	102	104	110	96	0
21	TMW42	106	96	112	94	0
22	EMW36	104	100	110	93	0
23	VBLK6Z	102	100	110	97	0
24	V6ZLCS	102	105	103	102	0
25	V6ZLCSD	102	105	103	101	0
26	TMW43	101	101	109	97	0
27	6MW9	104	101	110	96	0
28	6MW29	102	99	111	97	0
29	2MW26	102	102	110	96	0
30	2MW13	104	104	108	97	0

		QC LIMITS
SMC1	= Dibromofluoromethane	(78-117)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(62-124)
SMC3 (TOL)	= Toluene-d8	(81-116)
OTHER(BFB)	= Bromofluorobenzene	(74-126)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

	EPA SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	3MW27	104	101	110	96	0
02	7MW8	105	103	110	95	0
03	MW15	103	102	111	96	0
04	7MW30	103	101	111	94	0
05	12MW17	101	102	110	95	0
06	MW14	103	101	110	94	0
07	MW44	102	102	111	94	0
08	MW45	105	102	111	93	0
09	MW37	104	103	112	93	0
10	MW10	104	102	110	93	0
11	MW16	104	102	113	91	0
12	12MW20	105	102	110	93	0
13	12MW25	106	100	110	94	0
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
SMC1	= Dibromofluoromethane	(78-117)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(62-124)
SMC3 (TOL)	= Toluene-d8	(81-116)
OTHER(BFB)	= Bromofluorobenzene	(74-126)

Column to be used to flag recovery values

* Values outside of contract required QC limits

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6VLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	50		41	82	48-135
Chloromethane	50		48	96	60-118
Vinyl Chloride	50		48	96	65-113
Bromomethane	50		45	90	73-122
Chloroethane	50		49	98	72-118
Trichlorofluoromethane	50		49	98	68-129
1,1-Dichloroethene	50		50	100	67-121
Acetone	50		57	114	38-161
Methylene Chloride	50		53	106	59-132
Acrylonitrile	250		300	120	45-172
trans-1,2-Dichloroethen	50		51	102	71-124
Methyl tert-butyl ether	50		56	112	75-123
1,1-Dichloroethane	50		53	106	83-116
2-Butanone	50		55	110	64-139
cis-1,2-Dichloroethene	50		53	106	83-120
2,2-Dichloropropane	50		42	84	70-129
Bromochloromethane	50		53	106	85-124
Chloroform	50		53	106	89-118
Tetrahydrofuran	50		48	96	76-126
1,1,1-Trichloroethane	50		50	100	81-122
1,1-Dichloropropene	50		50	100	76-122
Carbon Tetrachloride	50		50	100	79-125
1,2-Dichloroethane	50		54	108	83-123
Benzene	50		53	106	81-120
Trichloroethene	50		50	100	77-121
1,2-Dichloropropane	50		54	108	81-116
Dibromomethane	50		54	108	86-124
Bromodichloromethane	50		53	106	90-114

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6VLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
cis-1,3-Dichloropropene	50		53	106	78-119
4-Methyl-2-pentanone	50		59	118	57-138
Toluene	50		54	108	81-121
trans-1,3-Dichloroprope	50		54	108	85-118
1,1,2-Trichloroethane	50		54	108	44-159
Tetrachloroethene	50		51	102	73-121
2-Hexanone	50		58	116	53-145
Dibromochloromethane	50		52	104	80-124
1,2-Dibromoethane	50		54	108	80-124
Chlorobenzene	50		52	104	82-118
1,1,1,2-Tetrachloroetha	50		52	104	84-121
Ethylbenzene	50		51	102	80-122
Xylene (Total)	150		160	107	81-121
Styrene	50		55	110	77-128
Bromoform	50		52	104	77-130
Isopropylbenzene	50		54	108	58-148
1,1,2,2-Tetrachloroetha	50		54	108	76-125
Bromobenzene	50		52	104	76-124
1,2,3-Trichloropropane	50		54	108	57-140
n-Propylbenzene	50		51	102	72-119
2-Chlorotoluene	50		51	102	75-120
1,3,5-Trimethylbenzene	50		52	104	76-116
4-Chlorotoluene	50		50	100	78-116
tert-Butylbenzene	50		52	104	71-115
1,2,4-Trimethylbenzene	50		54	108	77-117
sec-Butylbenzene	50		52	104	67-117
4-Isopropyltoluene	50		52	104	68-118
1,3-Dichlorobenzene	50		51	102	80-116

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

000045

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6VLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,4-Dichlorobenzene	50		51	102	80-114
n-Butylbenzene	50		51	102	58-121
1,2-Dichlorobenzene	50		53	106	81-116
1,2-Dibromo-3-chloropro	50		54	108	71-126
1,2,4-Trichlorobenzene	50		49	98	67-114
Hexachlorobutadiene	50		44	88	50-111
Naphthalene	50		56	112	58-133
1,2,3-Trichlorobenzene	50		50	100	64-118
1-Chlorohexane	50		48	96	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

000046

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6VLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	50	35	70	16	40	48-135
Chloromethane	50	43	86	11	40	60-118
Vinyl Chloride	50	43	86	11	40	65-113
Bromomethane	50	41	82	9	40	73-122
Chloroethane	50	44	88	11	40	72-118
Trichlorofluoromethane	50	40	80	20	40	68-129
1,1-Dichloroethene	50	44	88	13	40	67-121
Acetone	50	49	98	15	40	38-161
Methylene Chloride	50	48	96	10	40	59-132
Acrylonitrile	250	290	116	3	40	45-172
trans-1,2-Dichloroethen	50	46	92	10	40	71-124
Methyl tert-butyl ether	50	52	104	7	40	75-123
1,1-Dichloroethane	50	47	94	12	40	83-116
2-Butanone	50	50	100	10	40	64-139
cis-1,2-Dichloroethene	50	48	96	10	40	83-120
2,2-Dichloropropane	50	38	76	10	40	70-129
Bromochloromethane	50	48	96	10	40	85-124
Chloroform	50	48	96	10	40	89-118
Tetrahydrofuran	50	44	88	9	40	76-126
1,1,1-Trichloroethane	50	45	90	10	40	81-122
1,1-Dichloropropene	50	44	88	13	40	76-122
Carbon Tetrachloride	50	45	90	10	40	79-125
1,2-Dichloroethane	50	51	102	6	40	83-123
Benzene	50	48	96	10	40	81-120
Trichloroethene	50	45	90	10	40	77-121
1,2-Dichloropropane	50	49	98	10	40	81-116
Dibromomethane	50	50	100	8	40	86-124
Bromodichloromethane	50	49	98	8	40	90-114

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

000047

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6VLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
cis-1,3-Dichloropropene	50	48	96	10	40	78-119
4-Methyl-2-pentanone	50	55	110	7	40	57-138
Toluene	50	50	100	8	40	81-121
trans-1,3-Dichloroprope	50	49	98	10	40	85-118
1,1,2-Trichloroethane	50	51	102	6	40	44-159
Tetrachloroethene	50	48	96	6	40	73-121
2-Hexanone	50	55	110	5	40	53-145
Dibromochloromethane	50	49	98	6	40	80-124
1,2-Dibromoethane	50	50	100	8	40	80-124
Chlorobenzene	50	49	98	6	40	82-118
1,1,1,2-Tetrachloroetha	50	48	96	8	40	84-121
Ethylbenzene	50	47	94	8	40	80-122
Xylene (Total)	150	140	93	14	40	81-121
Styrene	50	51	102	8	40	77-128
Bromoform	50	49	98	6	40	77-130
Isopropylbenzene	50	50	100	8	40	58-148
1,1,2,2-Tetrachloroetha	50	50	100	8	40	76-125
Bromobenzene	50	49	98	6	40	76-124
1,2,3-Trichloropropane	50	50	100	8	40	57-140
n-Propylbenzene	50	47	94	8	40	72-119
2-Chlorotoluene	50	46	92	10	40	75-120
1,3,5-Trimethylbenzene	50	49	98	6	40	76-116
4-Chlorotoluene	50	47	94	6	40	78-116
tert-Butylbenzene	50	49	98	6	40	71-115
1,2,4-Trimethylbenzene	50	50	100	8	40	77-117
sec-Butylbenzene	50	48	96	8	40	67-117
4-Isopropyltoluene	50	48	96	8	40	68-118
1,3-Dichlorobenzene	50	48	96	6	40	80-116

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

000048

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6VLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,4-Dichlorobenzene	50	48	96	6	40	80-114
n-Butylbenzene	50	47	94	8	40	58-121
1,2-Dichlorobenzene	50	49	98	8	40	81-116
1,2-Dibromo-3-chloropro	50	49	98	10	40	71-126
1,2,4-Trichlorobenzene	50	48	96	2	40	67-114
Hexachlorobutadiene	50	41	82	7	40	50-111
Naphthalene	50	53	106	6	40	58-133
1,2,3-Trichlorobenzene	50	47	94	6	40	64-118
1-Chlorohexane	50	44	88	9	40	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 65 outside limits
Spike Recovery: 0 out of 130 outside limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6XLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	50		36	72	48-135
Chloromethane	50		43	86	60-118
Vinyl Chloride	50		41	82	65-113
Bromomethane	50		44	88	73-122
Chloroethane	50		46	92	72-118
Trichlorofluoromethane	50		47	94	68-129
1,1-Dichloroethene	50		44	88	67-121
Acetone	50		62	124	38-161
Methylene Chloride	50		45	90	59-132
Acrylonitrile	250		260	104	45-172
trans-1,2-Dichloroethen	50		44	88	71-124
Methyl tert-butyl ether	50		48	96	75-123
1,1-Dichloroethane	50		45	90	83-116
2-Butanone	50		56	112	64-139
cis-1,2-Dichloroethene	50		44	88	83-120
2,2-Dichloropropane	50		44	88	70-129
Bromochloromethane	50		45	90	85-124
Chloroform	50		46	92	89-118
Tetrahydrofuran	50		45	90	76-126
1,1,1-Trichloroethane	50		43	86	81-122
1,1-Dichloropropene	50		42	84	76-122
Carbon Tetrachloride	50		44	88	79-125
1,2-Dichloroethane	50		49	98	83-123
Benzene	50		46	92	81-120
Trichloroethene	50		42	84	77-121
1,2-Dichloropropane	50		46	92	81-116
Dibromomethane	50		47	94	86-124
Bromodichloromethane	50		46	92	90-114

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6XLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
cis-1,3-Dichloropropene	50		46	92	78-119
4-Methyl-2-pentanone	50		56	112	57-138
Toluene	50		46	92	81-121
trans-1,3-Dichloroprope	50		47	94	85-118
1,1,2-Trichloroethane	50		46	92	44-159
Tetrachloroethene	50		42	84	73-121
2-Hexanone	50		59	118	53-145
Dibromochloromethane	50		45	90	80-124
1,2-Dibromoethane	50		46	92	80-124
Chlorobenzene	50		45	90	82-118
1,1,1,2-Tetrachloroetha	50		44	88	84-121
Ethylbenzene	50		44	88	80-122
Xylene (Total)	150		140	93	81-121
Styrene	50		48	96	77-128
Bromoform	50		46	92	77-130
Isopropylbenzene	50		48	96	58-148
1,1,2,2-Tetrachloroetha	50		49	98	76-125
Bromobenzene	50		44	88	76-124
1,2,3-Trichloropropane	50		51	102	57-140
n-Propylbenzene	50		45	90	72-119
2-Chlorotoluene	50		44	88	75-120
1,3,5-Trimethylbenzene	50		47	94	76-116
4-Chlorotoluene	50		44	88	78-116
tert-Butylbenzene	50		46	92	71-115
1,2,4-Trimethylbenzene	50		47	94	77-117
sec-Butylbenzene	50		48	96	67-117
4-Isopropyltoluene	50		47	94	68-118
1,3-Dichlorobenzene	50		45	90	80-116

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6XLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,4-Dichlorobenzene	50		45	90	80-114
n-Butylbenzene	50		48	96	58-121
1,2-Dichlorobenzene	50		45	90	81-116
1,2-Dibromo-3-chloropro	50		52	104	71-126
1,2,4-Trichlorobenzene	50		41	82	67-114
Hexachlorobutadiene	50		39	78	50-111
Naphthalene	50		48	96	58-133
1,2,3-Trichlorobenzene	50		42	84	64-118
1-Chlorohexane	50		44	88	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 65 outside limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6ZLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	50		28	56	48-135
Chloromethane	50		39	78	60-118
Vinyl Chloride	50		39	78	65-113
Bromomethane	50		37	74	73-122
Chloroethane	50		42	84	72-118
Trichlorofluoromethane	50		41	82	68-129
1,1-Dichloroethene	50		43	86	67-121
Acetone	50		48	96	38-161
Methylene Chloride	50		44	88	59-132
Acrylonitrile	250		290	116	45-172
trans-1,2-Dichloroethen	50		43	86	71-124
Methyl tert-butyl ether	50		45	90	75-123
1,1-Dichloroethane	50		44	88	83-116
2-Butanone	50		50	100	64-139
cis-1,2-Dichloroethene	50		43	86	83-120
2,2-Dichloropropane	50		35	70	70-129
Bromochloromethane	50		44	88	85-124
Chloroform	50		46	92	89-118
Tetrahydrofuran	50		44	88	76-126
1,1,1-Trichloroethane	50		44	88	81-122
1,1-Dichloropropene	50		42	84	76-122
Carbon Tetrachloride	50		45	90	79-125
1,2-Dichloroethane	50		49	98	83-123
Benzene	50		46	92	81-120
Trichloroethene	50		41	82	77-121
1,2-Dichloropropane	50		46	92	81-116
Dibromomethane	50		47	94	86-124
Bromodichloromethane	50		46	92	90-114

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6ZLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
cis-1,3-Dichloropropene	50		42	84	78-119
4-Methyl-2-pentanone	50		51	102	57-138
Toluene	50		46	92	81-121
trans-1,3-Dichloroprope	50		44	88	85-118
1,1,2-Trichloroethane	50		47	94	44-159
Tetrachloroethene	50		51	102	73-121
2-Hexanone	50		52	104	53-145
Dibromochloromethane	50		44	88	80-124
1,2-Dibromoethane	50		45	90	80-124
Chlorobenzene	50		44	88	82-118
1,1,1,2-Tetrachloroetha	50		44	88	84-121
Ethylbenzene	50		43	86	80-122
Xylene (Total)	150		130	87	81-121
Styrene	50		45	90	77-128
Bromoform	50		46	92	77-130
Isopropylbenzene	50		46	92	58-148
1,1,2,2-Tetrachloroetha	50		48	96	76-125
Bromobenzene	50		41	82	76-124
1,2,3-Trichloropropane	50		49	98	57-140
n-Propylbenzene	50		43	86	72-119
2-Chlorotoluene	50		42	84	75-120
1,3,5-Trimethylbenzene	50		45	90	76-116
4-Chlorotoluene	50		42	84	78-116
tert-Butylbenzene	50		42	84	71-115
1,2,4-Trimethylbenzene	50		45	90	77-117
sec-Butylbenzene	50		45	90	67-117
4-Isopropyltoluene	50		45	90	68-118
1,3-Dichlorobenzene	50		42	84	80-116

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6ZLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,4-Dichlorobenzene	50		42	84	80-114
n-Butylbenzene	50		44	88	58-121
1,2-Dichlorobenzene	50		43	86	81-116
1,2-Dibromo-3-chloropro	50		49	98	71-126
1,2,4-Trichlorobenzene	50		37	74	67-114
Hexachlorobutadiene	50		36	72	50-111
Naphthalene	50		45	90	58-133
1,2,3-Trichlorobenzene	50		40	80	64-118
1-Chlorohexane	50		38	76	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6ZLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	50	35	70	22	40	48-135
Chloromethane	50	40	80	2	40	60-118
Vinyl Chloride	50	41	82	5	40	65-113
Bromomethane	50	40	80	8	40	73-122
Chloroethane	50	43	86	2	40	72-118
Trichlorofluoromethane	50	44	88	7	40	68-129
1,1-Dichloroethene	50	46	92	7	40	67-121
Acetone	50	79	158	49*	40	38-161
Methylene Chloride	50	45	90	2	40	59-132
Acrylonitrile	250	290	116	0	40	45-172
trans-1,2-Dichloroethen	50	44	88	2	40	71-124
Methyl tert-butyl ether	50	48	96	6	40	75-123
1,1-Dichloroethane	50	45	90	2	40	83-116
2-Butanone	50	64	128	24	40	64-139
cis-1,2-Dichloroethene	50	43	86	0	40	83-120
2,2-Dichloropropane	50	35	70	0	40	70-129
Bromochloromethane	50	44	88	0	40	85-124
Chloroform	50	46	92	0	40	89-118
Tetrahydrofuran	50	45	90	2	40	76-126
1,1,1-Trichloroethane	50	44	88	0	40	81-122
1,1-Dichloropropene	50	42	84	0	40	76-122
Carbon Tetrachloride	50	45	90	0	40	79-125
1,2-Dichloroethane	50	50	100	2	40	83-123
Benzene	50	46	92	0	40	81-120
Trichloroethene	50	41	82	0	40	77-121
1,2-Dichloropropane	50	46	92	0	40	81-116
Dibromomethane	50	47	94	0	40	86-124
Bromodichloromethane	50	46	92	0	40	90-114

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6ZLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
cis-1,3-Dichloropropene	50	42	84	0	40	78-119
4-Methyl-2-pentanone	50	56	112	9	40	57-138
Toluene	50	46	92	0	40	81-121
trans-1,3-Dichloroprope	50	45	90	2	40	85-118
1,1,2-Trichloroethane	50	47	94	0	40	44-159
Tetrachloroethene	50	52	104	2	40	73-121
2-Hexanone	50	62	124	18	40	53-145
Dibromochloromethane	50	45	90	2	40	80-124
1,2-Dibromoethane	50	46	92	2	40	80-124
Chlorobenzene	50	44	88	0	40	82-118
1,1,1,2-Tetrachloroetha	50	44	88	0	40	84-121
Ethylbenzene	50	43	86	0	40	80-122
Xylene (Total)	150	130	87	0	40	81-121
Styrene	50	46	92	2	40	77-128
Bromoform	50	46	92	0	40	77-130
Isopropylbenzene	50	46	92	0	40	58-148
1,1,2,2-Tetrachloroetha	50	49	98	2	40	76-125
Bromobenzene	50	43	86	5	40	76-124
1,2,3-Trichloropropane	50	50	100	2	40	57-140
n-Propylbenzene	50	43	86	0	40	72-119
2-Chlorotoluene	50	42	84	0	40	75-120
1,3,5-Trimethylbenzene	50	45	90	0	40	76-116
4-Chlorotoluene	50	43	86	2	40	78-116
tert-Butylbenzene	50	43	86	2	40	71-115
1,2,4-Trimethylbenzene	50	46	92	2	40	77-117
sec-Butylbenzene	50	46	92	2	40	67-117
4-Isopropyltoluene	50	45	90	0	40	68-118
1,3-Dichlorobenzene	50	43	86	2	40	80-116

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6ZLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,4-Dichlorobenzene	50	43	86	2	40	80-114
n-Butylbenzene	50	44	88	0	40	58-121
1,2-Dichlorobenzene	50	45	90	4	40	81-116
1,2-Dibromo-3-chloropro	50	53	106	8	40	71-126
1,2,4-Trichlorobenzene	50	39	78	5	40	67-114
Hexachlorobutadiene	50	36	72	0	40	50-111
Naphthalene	50	47	94	4	40	58-133
1,2,3-Trichlorobenzene	50	40	80	0	40	64-118
1-Chlorohexane	50	39	78	2	40	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 65 outside limits
Spike Recovery: 0 out of 130 outside limits

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK6V

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID: V6C2485 Lab Sample ID: V6B0829B

Date Analyzed: 08/30/02 Time Analyzed: 0009

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: V6

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V6VLCS	V6L0829B	V6C2486	0036
02	V6VLCSD	V6L0829C	V6C2487	0104
03	MW-6	A1243-01A	V6C2494	0416
04	MW-19M	A1243-02A	V6C2495	0444
05	MW-19D	A1243-03A	V6C2496	0511
06	MW-34	A1243-04A	V6C2497	0538
07	MW-40	A1243-05A	V6C2498	0606
08	MW-41	A1243-09A	V6C2500	0701
09	MW-35	A1243-11E	V6C2501	0728
10	20AUG02-GW-T	A1243-13A	V6C2503	0823
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK6X

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID: V6C2512 Lab Sample ID: V6B0830A

Date Analyzed: 08/30/02 Time Analyzed: 1254

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: V6

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V6XLCS	V6L0830A	V6C2513	1321
02	MW-7	A1243-08E	V6C2516	1445
03	MW-28	A1243-12A	V6C2517	1512
04	MW-34DL	A1243-04ADL	V6C2527	1952
05	MW-40DL	A1243-05ADL	V6C2528	2020
06	MW-35DL	A1243-11EDL	V6C2529	2047
07	13MW11	A1243-17A	V6C2530	2115
08	13MW33	A1243-18A	V6C2531	2142
09	TMW42	A1243-19A	V6C2532	2210
10	EMW36	A1243-20A	V6C2533	2238
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK6Z

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID: V6C2543 Lab Sample ID: V6B0830C

Date Analyzed: 08/31/02 Time Analyzed: 0123

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: V6

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V6ZLCS	V6L0830C	V6C2545	0218
02	V6ZLCSD	V6L0830C	V6C2546	0245
03	TMW43	A1243-21A	V6C2547	0312
04	6MW9	A1243-23A	V6C2548	0340
05	6MW29	A1243-24A	V6C2549	0407
06	2MW26	A1243-25A	V6C2550	0434
07	2MW13	A1243-26A	V6C2551	0502
08	3MW27	A1243-28A	V6C2552	0529
09	7MW8	A1243-29A	V6C2553	0557
10	MW15	A1243-30A	V6C2554	0624
11	7MW30	A1243-31A	V6C2555	0652
12	12MW17	A1243-33A	V6C2556	0720
13	MW14	A1243-34A	V6C2557	0747
14	MW44	A1243-35A	V6C2558	0815
15	MW45	A1243-36A	V6C2559	0843
16	MW37	A1243-37A	V6C2560	0910
17	MW10	A1243-38A	V6C2561	0938
18	MW16	A1243-39A	V6C2562	1005
19	12MW20	A1243-40A	V6C2563	1032
20	12MW25	A1243-41A	V6C2564	1100
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID: V6C2190 BFB Injection Date: 08/20/02

Instrument ID: V6 BFB Injection Time: 0918

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.5
75	30.0 - 60.0% of mass 95	54.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	95.2
175	5.0 - 9.0% of mass 174	7.2 (7.6)1
176	95.0 - 101.0% of mass 174	93.9 (98.6)1
177	5.0 - 9.0% of mass 176	6.3 (6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0506Y	V6S0820A	V6C2191	08/20/02	1010
02	VSTD0056Y	V6S0820B	V6C2192	08/20/02	1040
03	VSTD2006Y	V6S0820D	V6C2194	08/20/02	1135
04	VSTD1006Y	V6S0820E	V6C2195	08/20/02	1203
05	VSTD0206Y	V6S0820F	V6C2196	08/20/02	1231
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID: V6C2481 BFB Injection Date: 08/29/02

Instrument ID: V6 BFB Injection Time: 2218

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.7
75	30.0 - 60.0% of mass 95	50.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.6 (0.7)1
174	50.0 - 100.0% of mass 95	90.8
175	5.0 - 9.0% of mass 174	7.0 (7.8)1
176	95.0 - 101.0% of mass 174	90.2 (99.4)1
177	5.0 - 9.0% of mass 176	6.5 (7.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0506V	V6S0829C	V6C2483	08/29/02	2314
02	VBLK6V	V6B0829B	V6C2485	08/30/02	0009
03	V6VLCS	V6L0829B	V6C2486	08/30/02	0036
04	V6VLCSD	V6L0829C	V6C2487	08/30/02	0104
05	MW-6	A1243-01A	V6C2494	08/30/02	0416
06	MW-19M	A1243-02A	V6C2495	08/30/02	0444
07	MW-19D	A1243-03A	V6C2496	08/30/02	0511
08	MW-34	A1243-04A	V6C2497	08/30/02	0538
09	MW-40	A1243-05A	V6C2498	08/30/02	0606
10	MW-41	A1243-09A	V6C2500	08/30/02	0701
11	MW-35	A1243-11E	V6C2501	08/30/02	0728
12	20AUG02-GW-T	A1243-13A	V6C2503	08/30/02	0823
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID: V6C2510 BFB Injection Date: 08/30/02

Instrument ID: V6 BFB Injection Time: 1105

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.4
75	30.0 - 60.0% of mass 95	51.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	86.4
175	5.0 - 9.0% of mass 174	6.5 (7.6)1
176	95.0 - 101.0% of mass 174	84.0 (97.3)1
177	5.0 - 9.0% of mass 176	5.2 (6.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0506X	V6S0830A	V6C2511	08/30/02	1222
02	VBLK6X	V6B0830A	V6C2512	08/30/02	1254
03	V6XLCS	V6L0830A	V6C2513	08/30/02	1321
04	MW-7	A1243-08E	V6C2516	08/30/02	1445
05	MW-28	A1243-12A	V6C2517	08/30/02	1512
06	MW-34DL	A1243-04ADL	V6C2527	08/30/02	1952
07	MW-40DL	A1243-05ADL	V6C2528	08/30/02	2020
08	MW-35DL	A1243-11EDL	V6C2529	08/30/02	2047
09	13MW11	A1243-17A	V6C2530	08/30/02	2115
10	13MW33	A1243-18A	V6C2531	08/30/02	2142
11	TMW42	A1243-19A	V6C2532	08/30/02	2210
12	EMW36	A1243-20A	V6C2533	08/30/02	2238
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID: V6C2540A BFB Injection Date: 08/30/02

Instrument ID: V6 BFB Injection Time: 2333

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.2
75	30.0 - 60.0% of mass 95	57.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.6 (0.7)1
174	50.0 - 100.0% of mass 95	86.9
175	5.0 - 9.0% of mass 174	5.3 (6.1)1
176	95.0 - 101.0% of mass 174	84.2 (97.0)1
177	5.0 - 9.0% of mass 176	5.2 (6.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0506Z	V6S0830C	V6C2541	08/31/02	0028
02	VBLK6Z	V6B0830C	V6C2543	08/31/02	0123
03	V6ZLCS	V6L0830C	V6C2545	08/31/02	0218
04	V6ZLCSD	V6L0830C	V6C2546	08/31/02	0245
05	TMW43	A1243-21A	V6C2547	08/31/02	0312
06	6MW9	A1243-23A	V6C2548	08/31/02	0340
07	6MW29	A1243-24A	V6C2549	08/31/02	0407
08	2MW26	A1243-25A	V6C2550	08/31/02	0434
09	2MW13	A1243-26A	V6C2551	08/31/02	0502
10	3MW27	A1243-28A	V6C2552	08/31/02	0529
11	7MW8	A1243-29A	V6C2553	08/31/02	0557
12	MW15	A1243-30A	V6C2554	08/31/02	0624
13	7MW30	A1243-31A	V6C2555	08/31/02	0652
14	12MW17	A1243-33A	V6C2556	08/31/02	0720
15	MW14	A1243-34A	V6C2557	08/31/02	0747
16	MW44	A1243-35A	V6C2558	08/31/02	0815
17	MW45	A1243-36A	V6C2559	08/31/02	0843
18	MW37	A1243-37A	V6C2560	08/31/02	0910
19	MW10	A1243-38A	V6C2561	08/31/02	0938
20	MW16	A1243-39A	V6C2562	08/31/02	1005
21	12MW20	A1243-40A	V6C2563	08/31/02	1032
22	12MW25	A1243-41A	V6C2564	08/31/02	1100

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID (Standard): V6C2483 Date Analyzed: 08/29/02

Instrument ID: V6 Time Analyzed: 2314

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1 AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	1775039	7.03	1367625	10.77	778408	13.59
	UPPER LIMIT	3550078	7.53	2735250	11.27	1556816	14.09
	LOWER LIMIT	887520	6.53	683813	10.27	389204	13.09
	EPA SAMPLE NO.						
01	VBLK6V	1670782	7.03	1227923	10.77	671807	13.59
02	V6VLCS	1737509	7.03	1342077	10.77	775288	13.59
03	V6VLCSD	1893422	7.03	1444788	10.77	832066	13.59
04	MW-6	1449755	7.03	1039520	10.77	573524	13.59
05	MW-19M	1486249	7.03	1049813	10.77	578695	13.59
06	MW-19D	1387408	7.03	979245	10.77	531259	13.59
07	MW-34	1492921	7.03	1050864	10.77	563243	13.59
08	MW-40	1478761	7.03	1034874	10.77	556320	13.59
09	MW-41	1297726	7.03	909607	10.77	471482	13.59
10	MW-35	1327277	7.03	919487	10.77	493347	13.59
11	20AUG02-GW-T	1290485	7.03	908977	10.77	477122	13.59
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID (Standard): V6C2511 Date Analyzed: 08/30/02

Instrument ID: V6 Time Analyzed: 1222

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1 AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	1441750	7.03	1107504	10.77	628153	13.59
	UPPER LIMIT	2883500	7.53	2215008	11.27	1256306	14.09
	LOWER LIMIT	720875	6.53	553752	10.27	314077	13.09
	EPA SAMPLE NO.						
01	VBLK6X	1372100	7.03	963267	10.77	501323	13.59
02	V6XLCS	1508011	7.03	1145752	10.77	659910	13.59
03	MW-7	1290654	7.03	907199	10.77	494985	13.59
04	MW-28	1224945	7.03	852316	10.77	469731	13.59
05	MW-34DL	1198576	7.03	828632	10.77	436196	13.59
06	MW-40DL	1200064	7.03	825409	10.77	424011	13.59
07	MW-35DL	1233369	7.03	855212	10.77	441510	13.59
08	13MW11	1213591	7.03	848229	10.77	464250	13.59
09	13MW33	1281775	7.03	886575	10.77	462651	13.59
10	TMW42	1241466	7.03	851093	10.77	439929	13.59
11	EMW36	1227126	7.03	843259	10.77	433488	13.59
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID (Standard): V6C2541 Date Analyzed: 08/31/02

Instrument ID: V6 Time Analyzed: 0028

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1 AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	1292136	7.03	1006641	10.76	592504	13.59
	UPPER LIMIT	2584272	7.53	2013282	11.26	1185008	14.09
	LOWER LIMIT	646068	6.53	503321	10.26	296252	13.09
	EPA SAMPLE NO.						
01	VBLK6Z	1357126	7.03	948156	10.77	498453	13.59
02	V6ZLCS	1419905	7.03	1094638	10.77	652541	13.59
03	V6ZLCSD	1483039	7.03	1139196	10.77	665679	13.59
04	TMW43	1386951	7.03	967729	10.77	498551	13.59
05	6MW9	1305321	7.03	910569	10.77	477794	13.59
06	6MW29	1340730	7.03	929832	10.77	489378	13.59
07	2MW26	1306379	7.03	914122	10.77	476871	13.59
08	2MW13	1288201	7.03	902877	10.77	471123	13.59
09	3MW27	1227211	7.02	840843	10.77	442771	13.59
10	7MW8	1281150	7.03	890213	10.77	464518	13.59
11	MW15	1283607	7.03	891614	10.77	466306	13.59
12	7MW30	1268836	7.03	877875	10.77	461669	13.59
13	12MW17	1285754	7.03	887066	10.77	457361	13.59
14	MW14	1267411	7.03	862785	10.77	453921	13.59
15	MW44	1218226	7.02	828133	10.76	423125	13.59
16	MW45	1174718	7.03	805323	10.77	405858	13.59
17	MW37	1211008	7.03	824864	10.76	418811	13.59
18	MW10	1218695	7.03	841558	10.77	427008	13.59
19	MW16	1097258	7.03	745408	10.77	377420	13.59
20	12MW20	1158940	7.03	797910	10.77	416456	13.59
21	12MW25	1234227	7.03	854128	10.77	456323	13.59
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12MW17

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-33A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2556
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	3	J
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12MW17

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-33A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2556
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

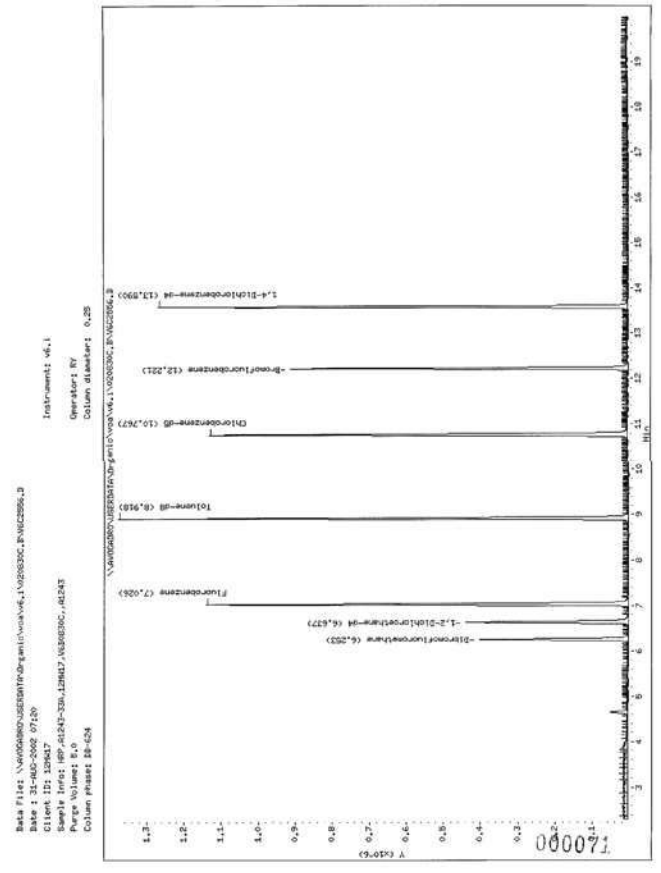
EPA SAMPLE NO.
12MW17

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-33A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2556
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					



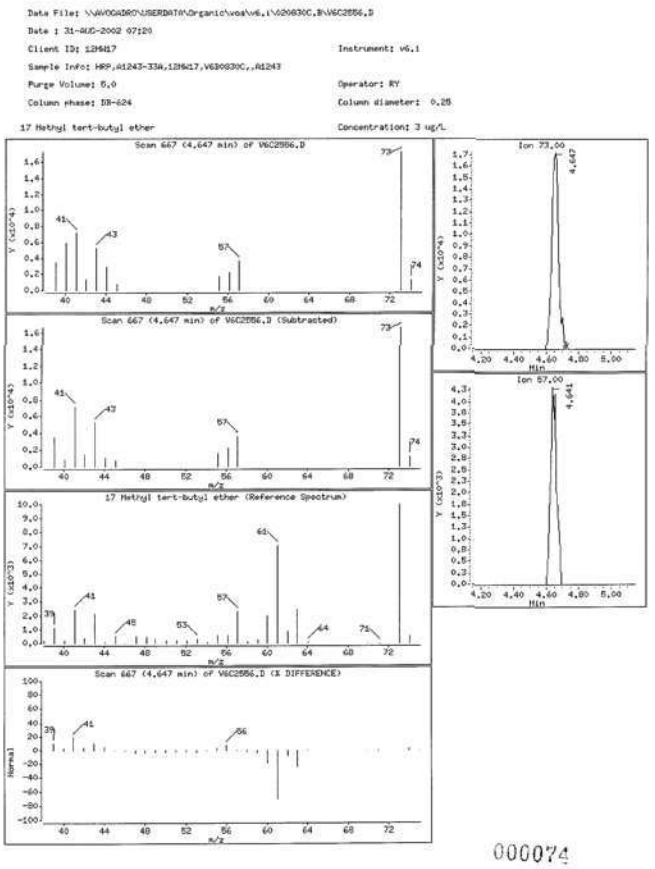
Data File: V6C2556.D
Report Date: 10-Sep-2002 17:22

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2556.D
Lab Smp Id: A1243-33A Client Smp ID: 12MW17
Inj Date : 31-AUG-2002 07:20
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-33A,12MW17,V6B0830C,,A1243
Misc Info : 23-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12MW20

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-40A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2563
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	4	J
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	2	J
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	2	J
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	2	J
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12MW20

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-40A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2563
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

12MW20

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-40A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2563

Level: (low/med) LOW Date Received: 08/23/02

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

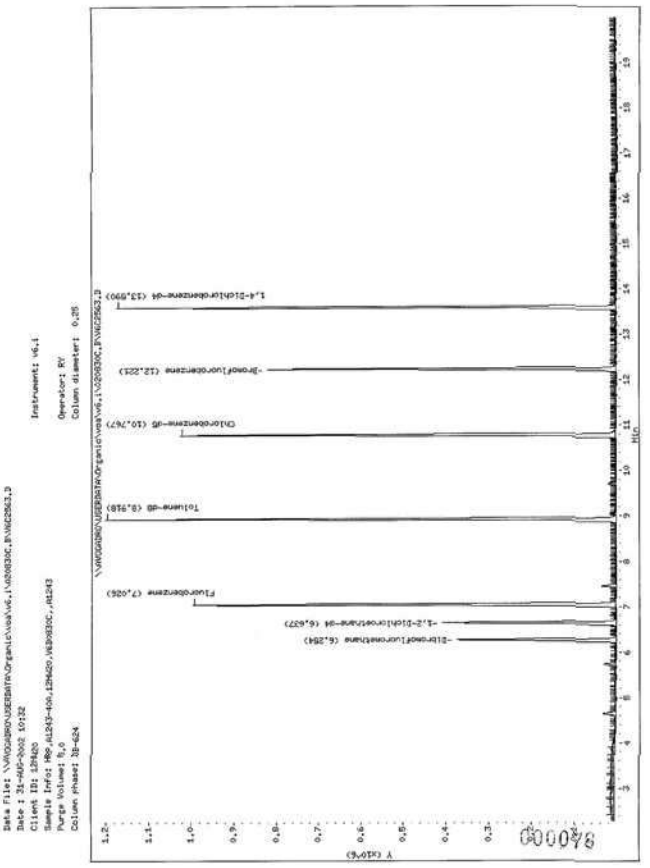
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0



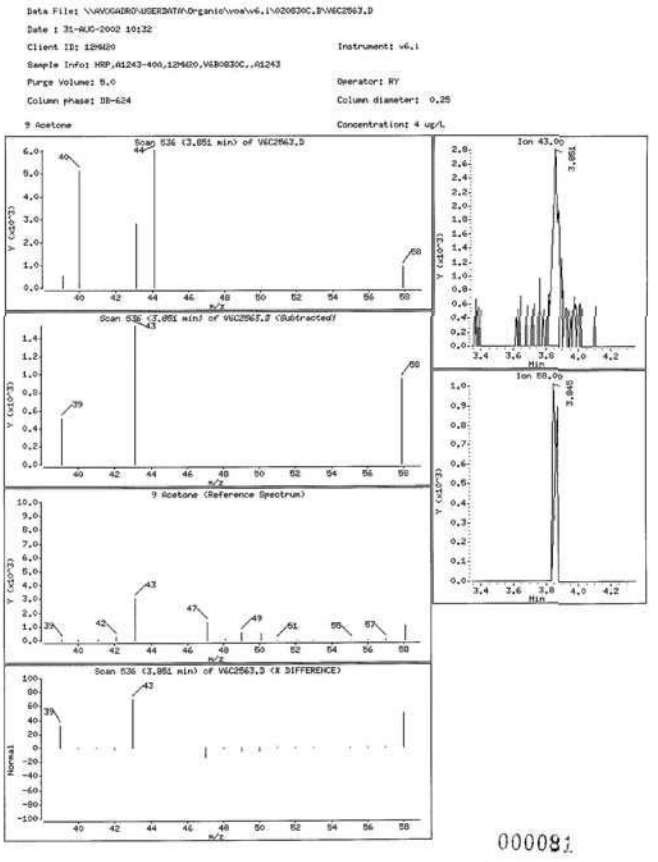
Data File: V6C2563.D
Report Date: 10-Sep-2002 17:23

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2563.D
Lab Smp Id: A1243-40A Client Smp ID: 12MW20
Inj Date : 31-AUG-2002 10:32
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-40A,12MW20,V6B0830C,,A1243
Misc Info : 23-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 40
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2563.D

Date : 31-AUG-2002 10:32

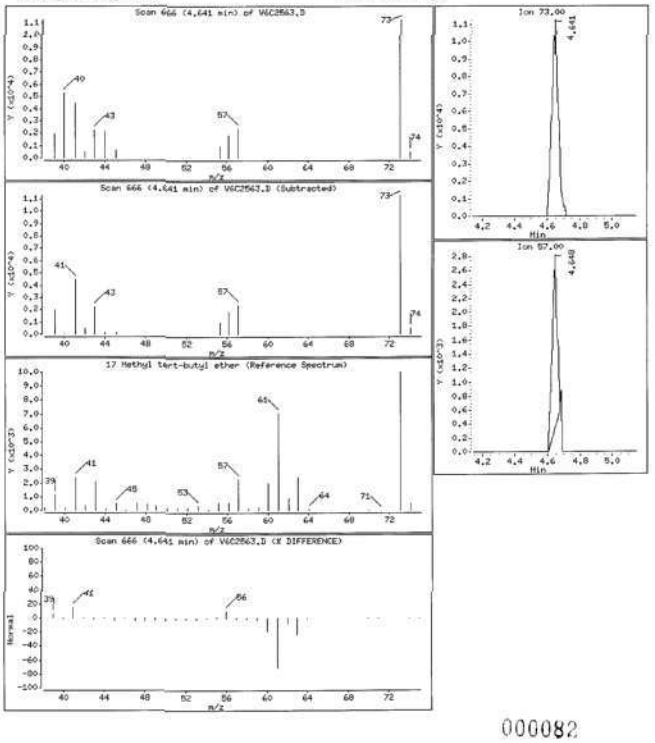
Client ID: 12M420 Instrument: V6.i

Sample Info: HRP,A1243-40A,12M420,V6B0830C,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

17 Methyl tert-butyl ether Concentration: 2 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2563.D

Date : 31-AUG-2002 10:32

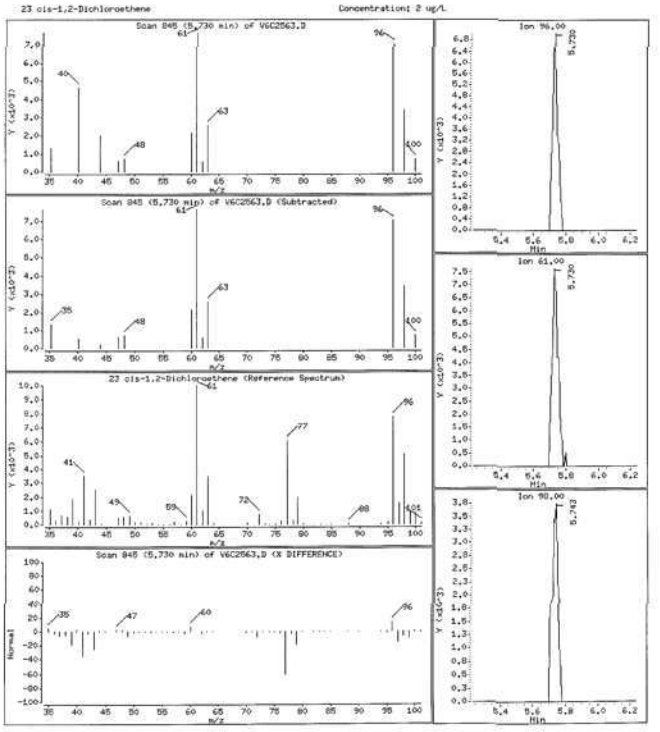
Client ID: 12M420 Instrument: V6.i

Sample Info: HRP,A1243-40A,12M420,V6B0830C,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

23 cis-1,2-Dichloroethene Concentration: 2 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2563.D

Date : 31-AUG-2002 10:32

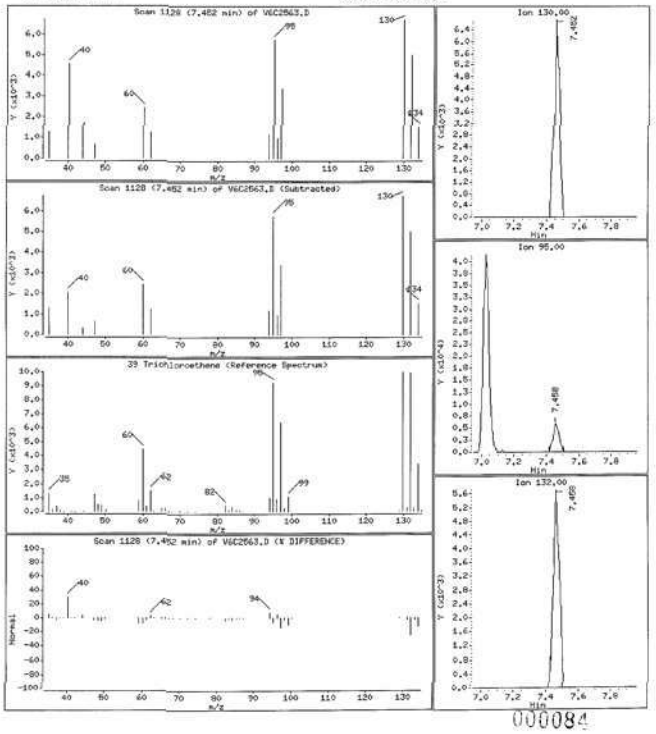
Client ID: 12M420 Instrument: V6.i

Sample Info: HRP,A1243-40A,12M420,V6B0830C,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

39 Trichloroethene Concentration: 2 ug/L



1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

12MW25

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-41A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2564

Level: (low/med) LOW Date Received: 08/23/02

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	2	J
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	3	J
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	2	J
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	1	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12MW25

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-41A

Sample wt/vol: *5.000 (g/mL) ML* *Lab File ID:* V6C2564

Level: (low/med) LOW Date Received: 08/23/02

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000086

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
12MW25

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-41A

Sample wt/vol: *5.000 (g/mL) ML* *Lab File ID:* V6C2564

Level: (low/med) LOW Date Received: 08/23/02

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

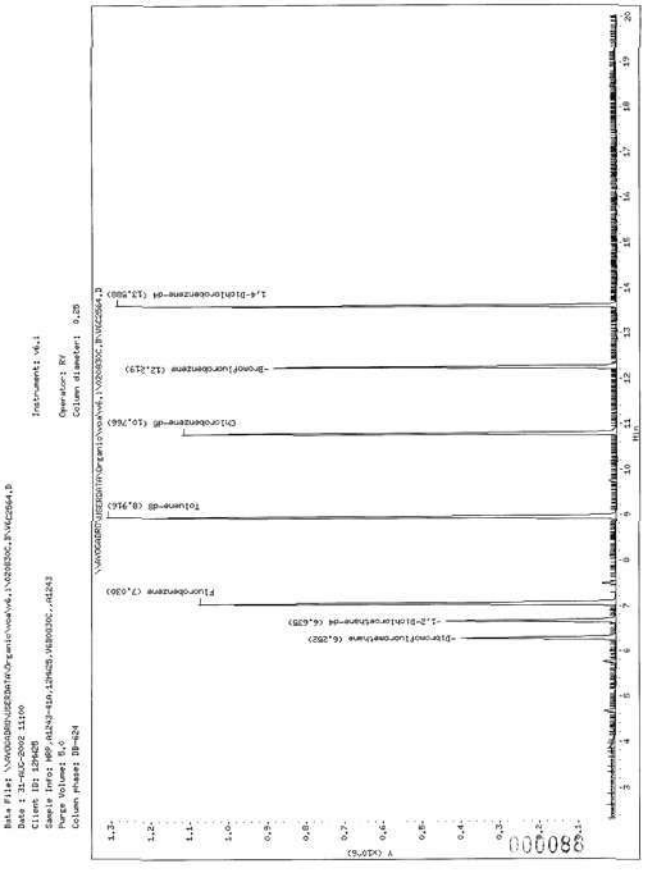
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

000087



000088

Data File: V6C2564.D
Report Date: 10-Sep-2002 17:23

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2564.D
Lab Smp Id: A1243-41A Client Smp ID: 12MW25
Inj Date : 31-AUG-2002 11:00
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-41A,12MW25,V6B0830C,,A1243
Misc Info : 23-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D ✓
Als bottle: 41
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub ✓
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	9 Acetone	43	3.899	3.849	(0.568)	10031	8.12433	9
	17 Methyl tert-butyl ether	73	4.646	4.645	(0.661)	26724	1.78801	2(a)
	23 cis-1,2-Dichloroethene	96	5.738	5.734	(0.819)	19261	2.85589	3(a)
S	30 Dibromofluoromethane	113	6.282	6.282	(0.889)	120152	53.0232	53
S	35 1,2-Dichloroethane-d4	102	6.635	6.641	(0.944)	75281	50.2404	50
*	36 Fluorobenzene	96	7.030	7.030	(1.000)	1234207	50.0000	
	39 Trichloroethene	130	7.462	7.456	(1.061)	17365	2.40784	2(a)
S	47 Toluene-d8	98	8.916	8.916	(0.828)	1181142	55.1580	55
	53 Tetrachloroethene	164	9.713	9.713	(0.902)	7954	1.31973	1(a)
*	57 Chlorobenzene-d5	117	10.766	10.765	(1.000)	851128	50.0000	
S	68 Bromofluorobenzene	95	12.219	12.219	(1.135)	158590	47.0162	47
*	81 1,4-Dichlorobenzene-d4	152	13.588	13.588	(1.000)	456223	50.0000	

9/11/02

000089

Data File: V6C2564.D
Report Date: 10-Sep-2002 17:23

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

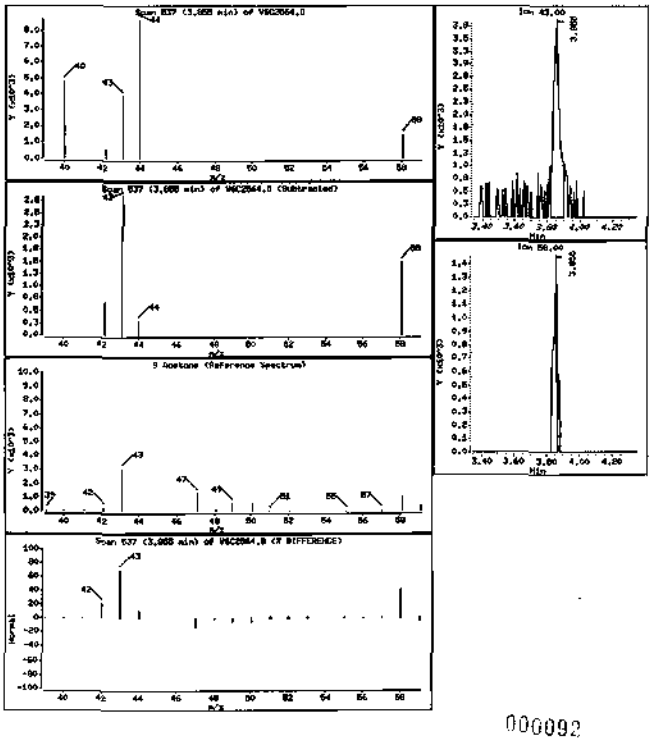
Data File: V6C2564.D
Report Date: 10-Sep-2002 17:23

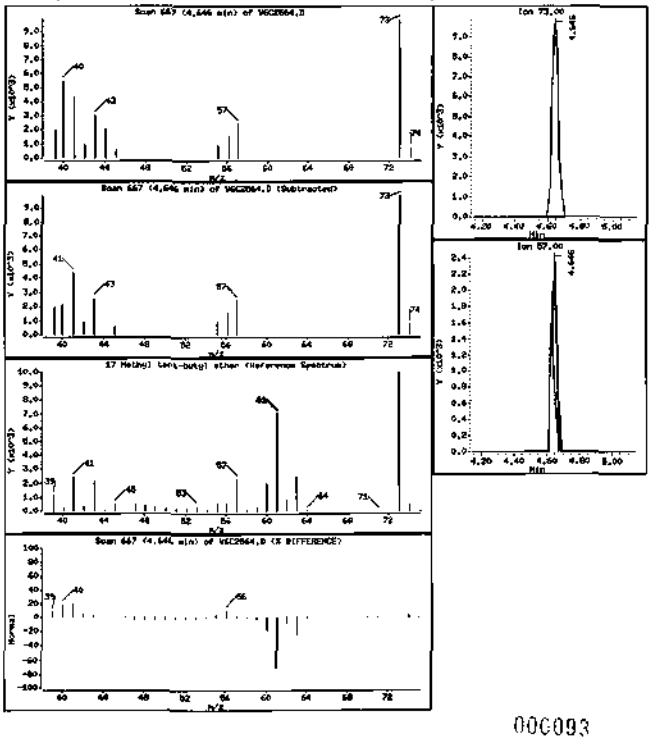
Mitkem Corporation

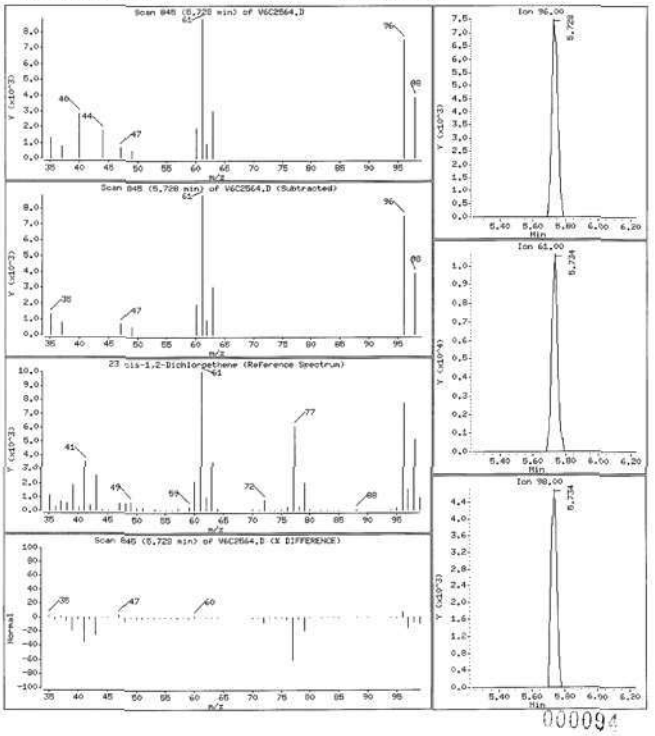
Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2564.D
Lab Smp Id: A1243-41A Client Smp ID: 12MW25
Inj Date : 31-AUG-2002 11:00
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-41A,12MW25,V6B0830C,,A1243
Misc Info : 23-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 41
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

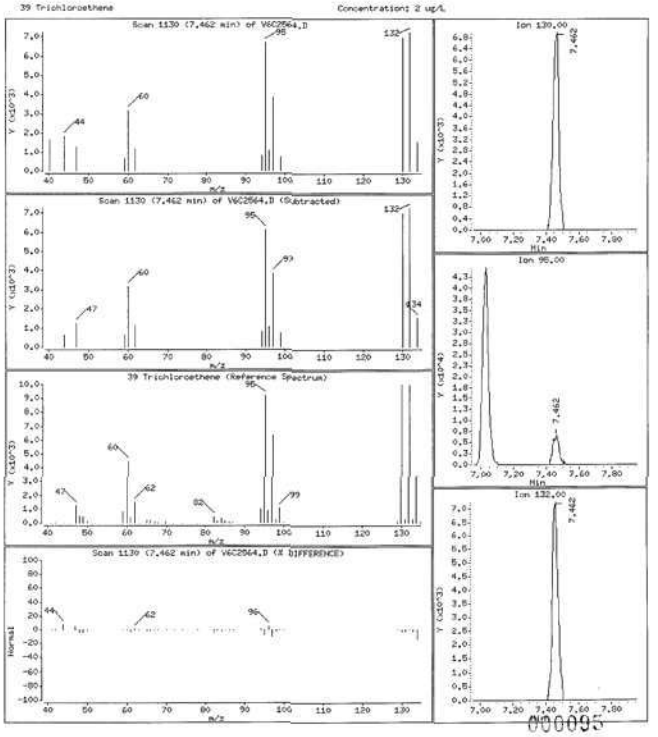
- NO TENTATIVELY IDENTIFIED COMPOUNDS -



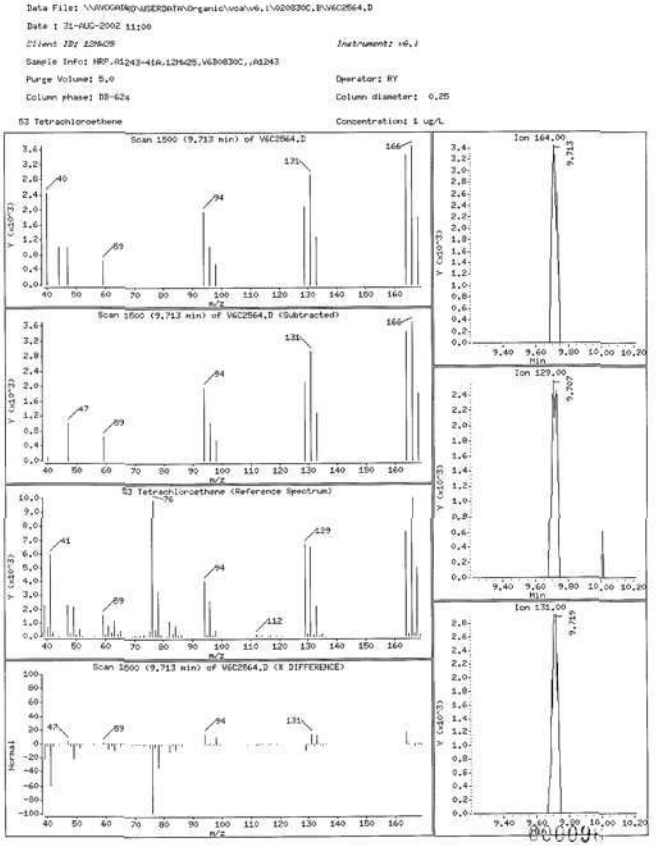




000094



000095



000096

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

13MW11

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-17A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2530

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	3	J
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	2	J
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	9	
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

000097

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13MW11

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-17A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2530
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	2	J
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000098

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
13MW11

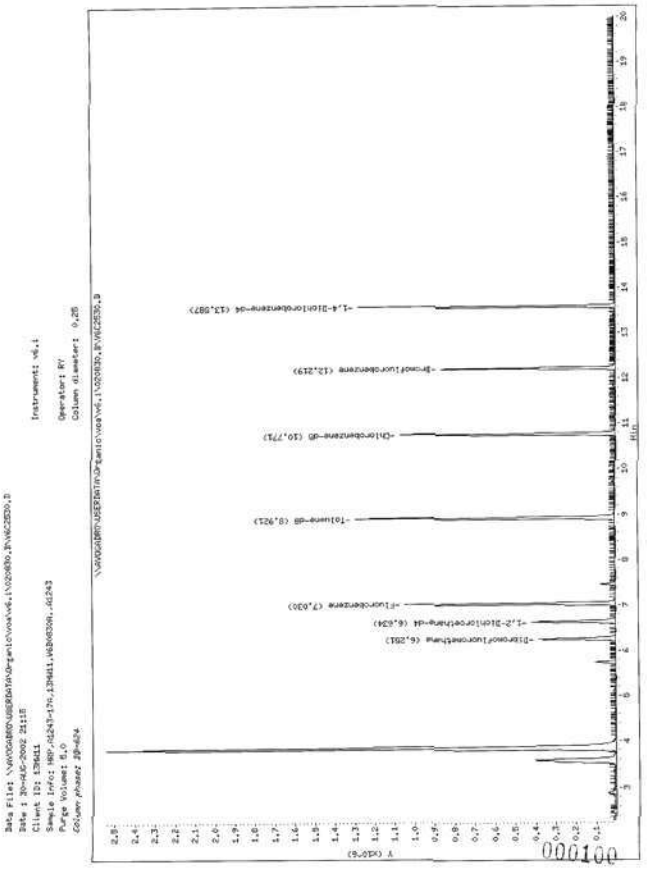
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-17A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2530
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 354-23-4	ETHANE, 1,2-DICHLORO-1,1,2-T	3.59	36	JN
2. 76-13-1	ETHANE, 1,1,2-TRICHLORO-1,2,	3.85	170	NJ
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

000099



000100

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2530.D
Report Date: 10-Sep-2002 17:17

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2530.D
Lab Smp Id: A1243-17A Client Smp ID: 13MW11
Inj Date : 30-AUG-2002 21:15
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-17A,13MW11,V6B0830A,,A1243
Misc Info : 22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\v68260.m
Meth Date : 10-Sep-2002 17:16 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT RIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)	
1 Dichlorodifluoromethane	85	1.992	2.035	(0.283)	27101	3.36583		3(a)
18 1,1-Dichloroethene	63	5.095	5.095	(0.725)	19053	1.66866		2(a)
23 cis-1,2-Dichloroethene	96	5.734	5.734	(0.816)	82569	9.44828		9
$ 30 Dibromofluoromethane	113	8.251	8.257	(0.889)	310585	52.3134		52
$ 35 1,2-Dichloroethane-d4	102	6.640	6.640	(0.945)	74826	50.6501		51
* 36 Fluorobenzene	96	7.029	7.029	(1.000)	1213591	50.0000		
39 Trichloroethene	130	7.455	7.455	(1.061)	33784	4.76416		5
$ 47 Toluene-d8	98	8.922	8.931	(0.828)	1175777	55.2893		55
* 57 Chlorobenzene d5	117	10.771	10.771	(1.000)	848229	50.0000		
65 Bromoform	173	11.817	11.823	(1.097)	7780	2.09498		2(aM)
$ 66 Bromofluorobenzene	95	12.219	12.219	(1.134)	365256	48.2233		48
* 81 1,4-Dichlorobenzene-d4	152	13.587	13.587	(1.000)	464250	50.0000		

9/12/02

000101

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2530.D
Report Date: 10-Sep-2002 17:17

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2530.D
Report Date: 13-Sep-2002 12:17

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2530.D
Lab Smp Id: A1243-17A Client Smp ID: 13MW11
Inj Date : 30-AUG-2002 21:15
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-17A,13MW11,V6B0830A,,A1243
Misc Info : 22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\v68260.m
Meth Date : 10-Sep-2002 17:16 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

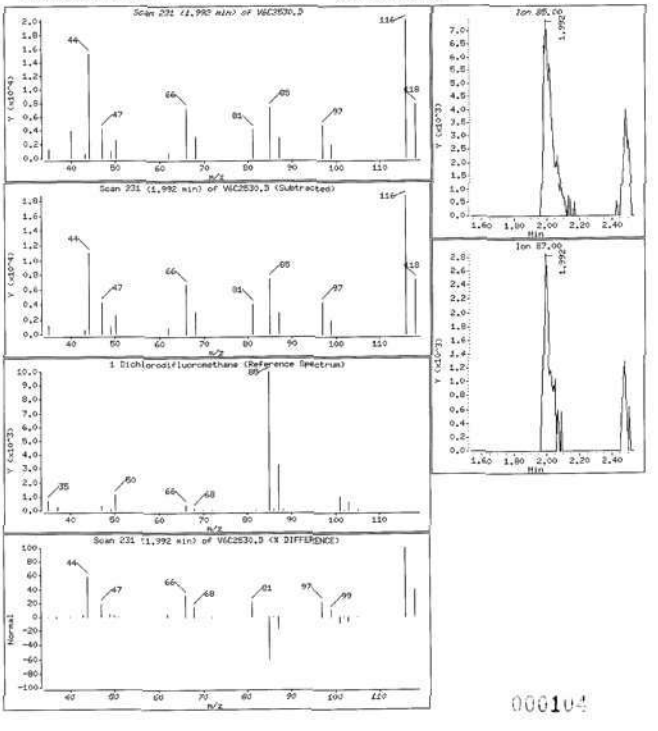
ISTD	RT	AREA	AMOUNT
* 38 Fluorobenzene	7.030	2648673	50.000

	RT	AREA	CONCENTRATIONS (ON-COL) ug/L	FINAL ug/L	QUANT QUAL	LIBRARY	LIB SMPLY	CVSD #
Ethane, 1,2-dichloro-1,1,2-trifluoro-						CAS #: 354-23-4		
	3.592	1895831	35.7883174	36	91	NBS75K.L	10049	38(L)
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-						CAS #: 76-13-1		
	3.848	8919415	168.375164	170	81	NBS75K.L	69052	38

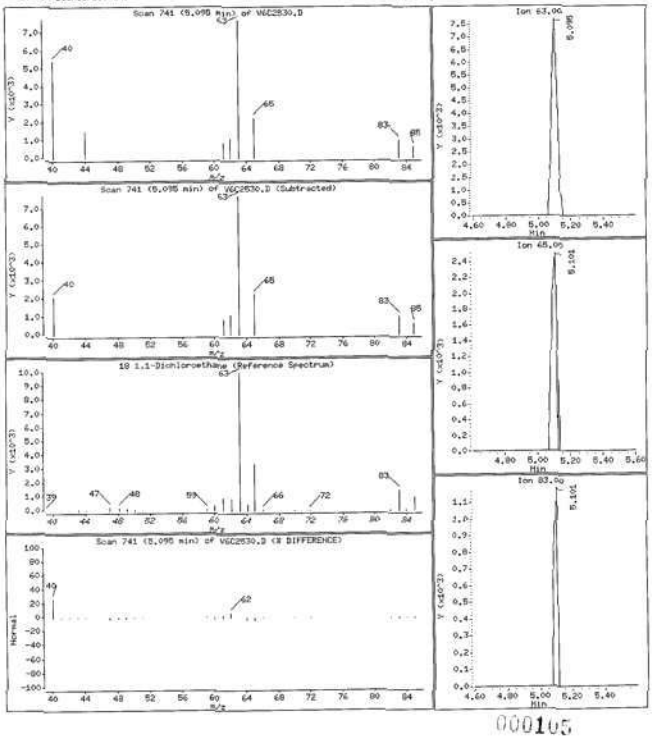
QC Flag Legend

L - Operator selected an alternate library search match.

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2530.D
Date : 30-AUG-2002 21:15
Client ID: 13MW11 Instrument: v6.i
Sample Info: HRP,A1243-17A,13MW11,V6B0830A,,A1243
Purge Volume: 5.0 Operator: RY
Column phase: DB-624 Column diameter: 0.25
1 Dichlorodifluoromethane Concentration: 3 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2530.D
Date : 30-AUG-2002 21:15
Client ID: 13MW11 Instrument: v6.i
Sample Info: HRP,A1243-17A,13MW11,V6B0830A,,A1243
Purge Volume: 5.0 Operator: RY
Column phase: DB-624 Column diameter: 0.25
18 1,1-Dichloroethane Concentration: 2 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2530.D

Date : 30-AUG-2002 21:15

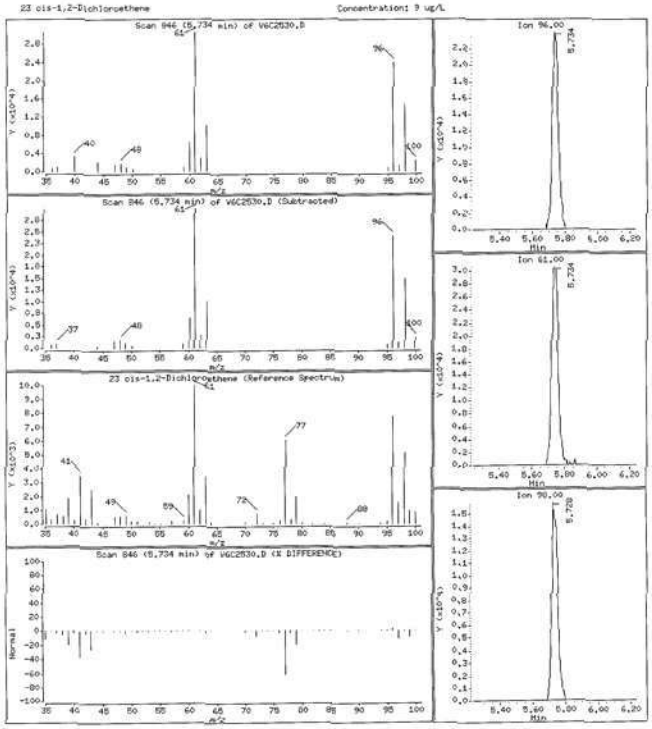
Client ID: 139411 Instrument: v6.i

Sample Info: HRP,A1243-17A,139411,V6B0830A,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

23 cis-1,2-Dichloroethene Concentration: 9 ug/L



000106

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2530.D

Date : 30-AUG-2002 21:15

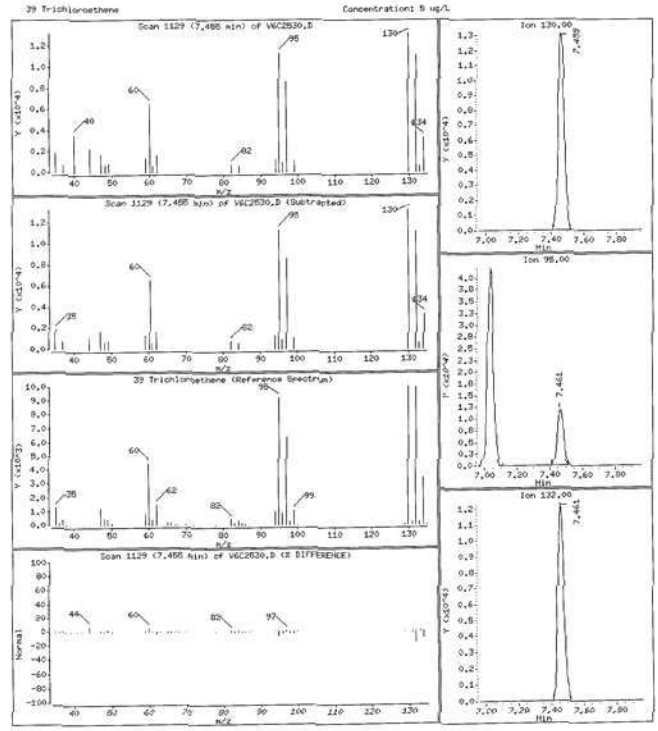
Client ID: 139411 Instrument: v6.i

Sample Info: HRP,A1243-17A,139411,V6B0830A,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

39 Trichloroethene Concentration: 5 ug/L



000107

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2530.D

Date : 30-AUG-2002 21:15

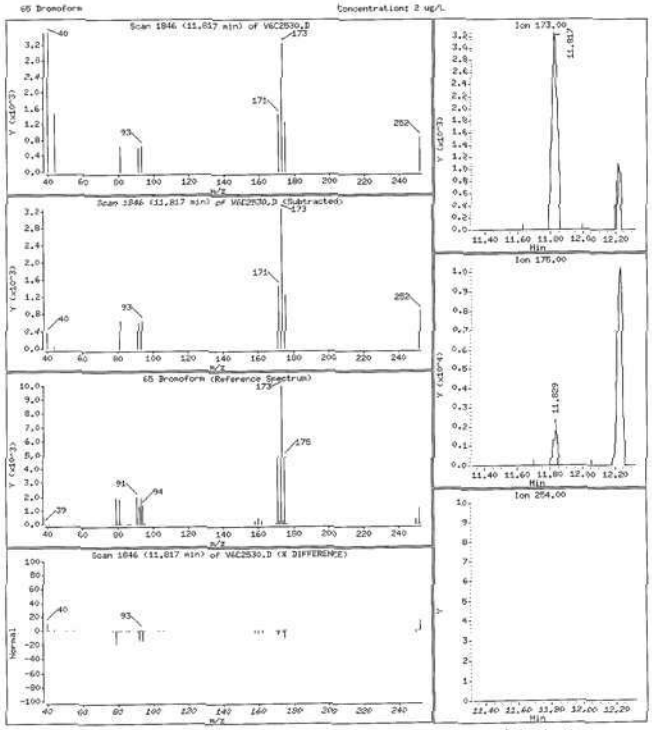
Client ID: 139411 Instrument: v6.i

Sample Info: HRP,A1243-17A,139411,V6B0830A,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

65 Bromoform Concentration: 2 ug/L



000108

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2530.D

Date : 30-AUG-2002 21:15

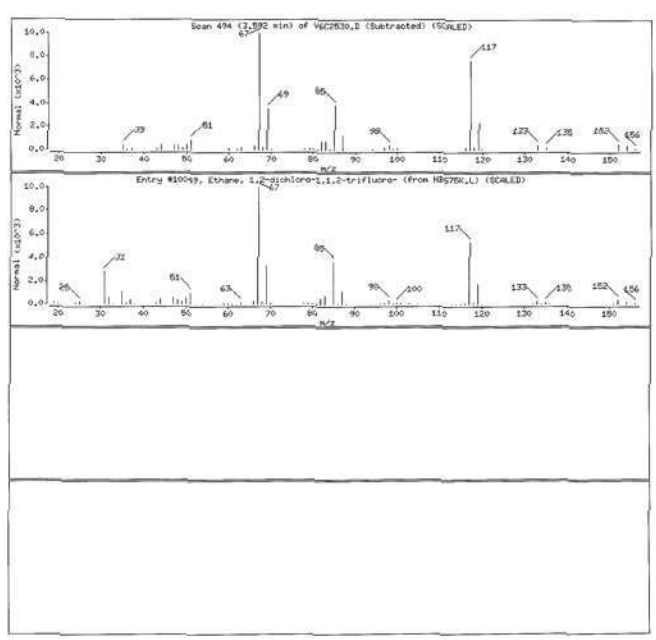
Client ID: 139411 Instrument: v6.i

Sample Info: HRP,A1243-17A,139411,V6B0830A,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
~~Bromoform-d1~~ SOL 9/12/02						
Ethane, 1,2-dichloro-1,1,2-trifluoro-	354-23-4	NBS78K.L	10049	91 ✓	C2HCl2F3	152



000109

Data File: \\AWOGAIRO\USERDATA\Organic\voa\v6_1\020830_2\V6C2530.D

Date : 30-AUG-2002 21:15

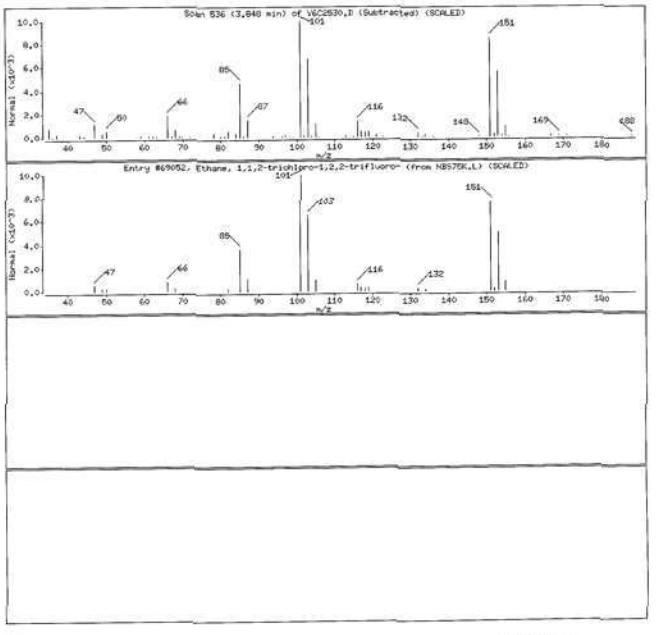
Client ID: 13MW11 Instrument: V6.1

Sample Info: HRP,A1243-17A,13MW11,V6I08306,,A1243

Purge Volume: 5.0 Operator: KY

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	76-13-1	NIST5K.L	69052	91	C2Cl3F3	186



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 13MW33

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-18A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2531

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	4	J
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	2	J
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	8	
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 13MW33

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-18A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2531

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	2	J
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	4	J
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: 13MW33

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-18A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2531

Level: (low/med) LOW Date Received: 08/22/02

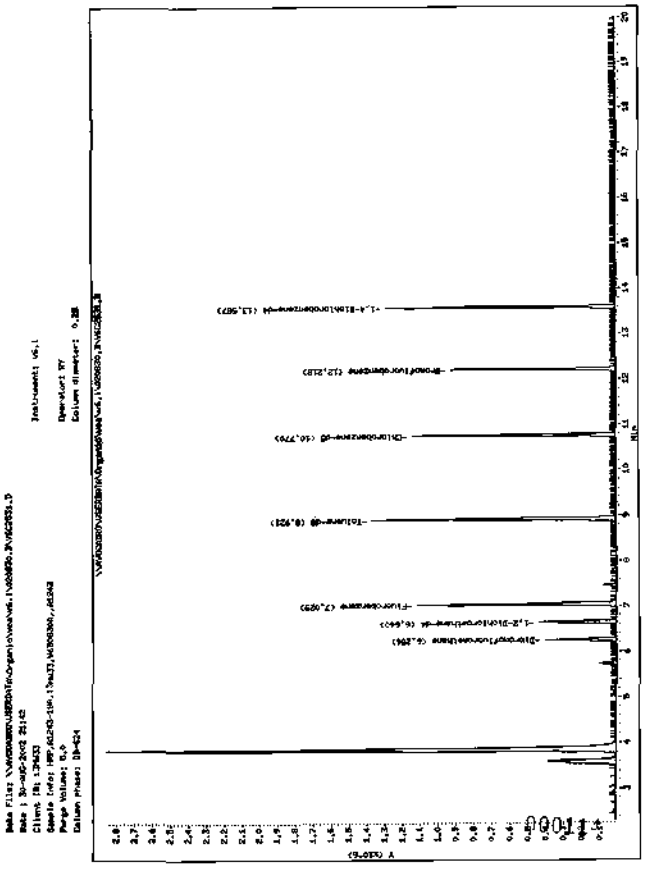
% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	354-23-4	ETHANE, 1,2-DICHLORO-1,1,2-T	3.59	32	JN
2.	76-13-1	ETHANE, 1,1,2-TRICHLORO-1,2,	3.85	180	NJ
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					



Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2531.D
Lab Smp Id: A1243-18A Client Smp ID: 13MW33
Inj Date : 30-AUG-2002 21:42
Operator : RY Inst ID: V6.i
Smp Info : HRP,A1243-18A,13MW33,V6B0830A,,A1243
Misc Info : 22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\v68260.m
Meth Date : 10-Sep-2002 17:16 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	REF RT	RRL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	1.992	1.938	(0.285)	30927	3.63149	4 (a)
18 1,1-Dichloroethane	63	5.088	5.095	(0.724)	19649	1.54585	2 (a)
23 cis-1,2-Dichloroethene	96	5.727	5.734	(0.815)	57616	8.38866	9
10 Dibromofluoromethane	113	6.856	6.867	(0.888)	330719	51.1487	51
35 1,2-Dichloroethane-d4	102	6.866	6.860	(0.889)	80698	51.8320	52
38 Fluorobenzene	96	7.029	7.029	(1.000)	1241758	50.0000	
39 Trichloroethene	130	7.695	7.655	(1.061)	35890	4.39191	4
47 Toluene-d8	98	8.931	8.933	(0.826)	1222835	55.0151	>5
54 Dibromochloromethane	129	10.084	10.084	(0.929)	80198	1.75163	2 (a)
57 Chlorobenzene-d5	117	10.779	10.771	(1.000)	884875	50.0000	
65 Bromoform	173	11.817	11.825	(1.097)	15804	6.07136	6 (a)
68 Bromofluorobenzene	95	12.318	12.318	(1.134)	180443	48.0559	48
81 1,4-Dichlorobenzene-d4	152	13.593	13.587	(1.000)	662561	50.0000	

09/10/02

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2531.D
Lab Smp Id: A1243-18A Client Smp ID: 13MW33
Inj Date : 30-AUG-2002 21:42
Operator : RY Inst ID: V6.i
Smp Info : HRP,A1243-18A,13MW33,V6B0830A,,A1243
Misc Info : 22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\v68260.m
Meth Date : 10-Sep-2002 17:16 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

ISTD	RT	AREA	AMOUNT
* 38 Fluorobenzene	7.029	2784664	50.000

RT	AREA	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CAS #
Ethane, 1,2-dichloro-1,1,2-trifluoro-						CAS #: 354-23-4	
5.592	1778579	35.9445364	52	94	NBS75K.L	88549	354[1]
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-						CAS #: 76-13-1	
7.847	9333308	176.557389	100	91	NBS75K.L	69562	76

QC Flag Legend

L - Operator selected an alternate library search match.

Data File: \\WVOGADRO\USERDATA\Organic\voa\v6.1\020830.B\V6C2531.D

Date : 30-AUG-2002 21:42

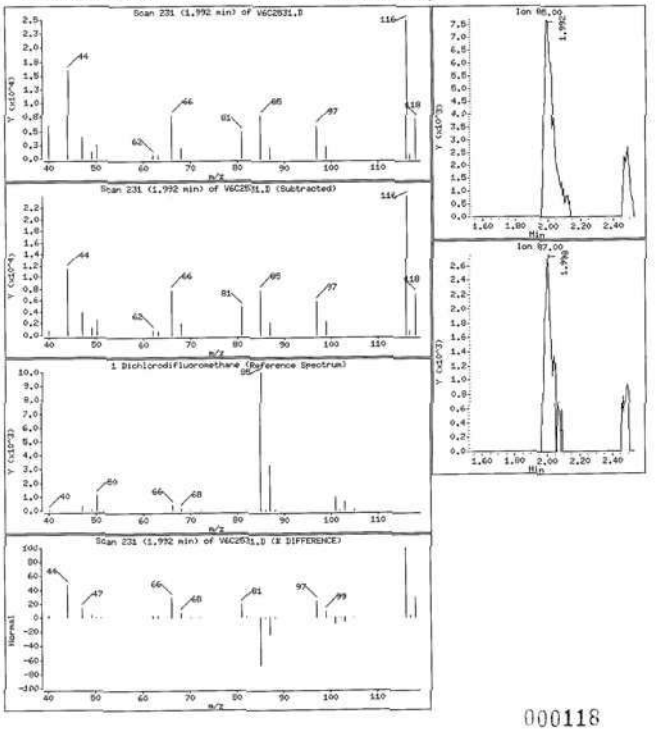
Client ID: 134433 Instrument: v6.1

Sample Info: MRP,A1243-10A,134433,V6308304,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 *Column diameter: 0.25*

1 Dichlorodifluoromethane Concentration: 4 ug/L



000118

Data File: \\WVOGADRO\USERDATA\Organic\voa\v6.1\020830.B\V6C2531.D

Date : 30-AUG-2002 21:42

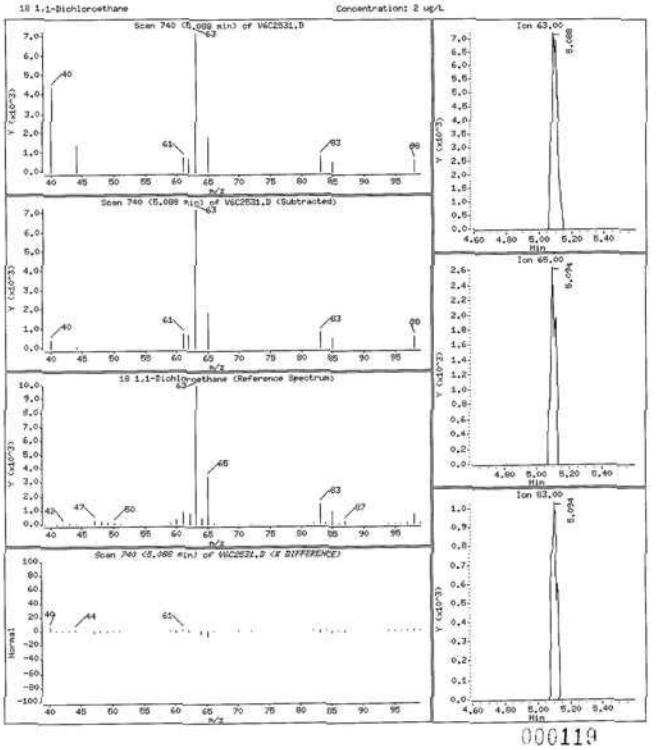
Client ID: 134433 Instrument: v6.1

Sample Info: MRP,A1243-10A,134433,V6308304,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

18 1,1-Dichloroethane Concentration: 2 ug/L



000119

Data File: \\WVOGADRO\USERDATA\Organic\voa\v6.1\020830.B\V6C2531.D

Date : 30-AUG-2002 21:42

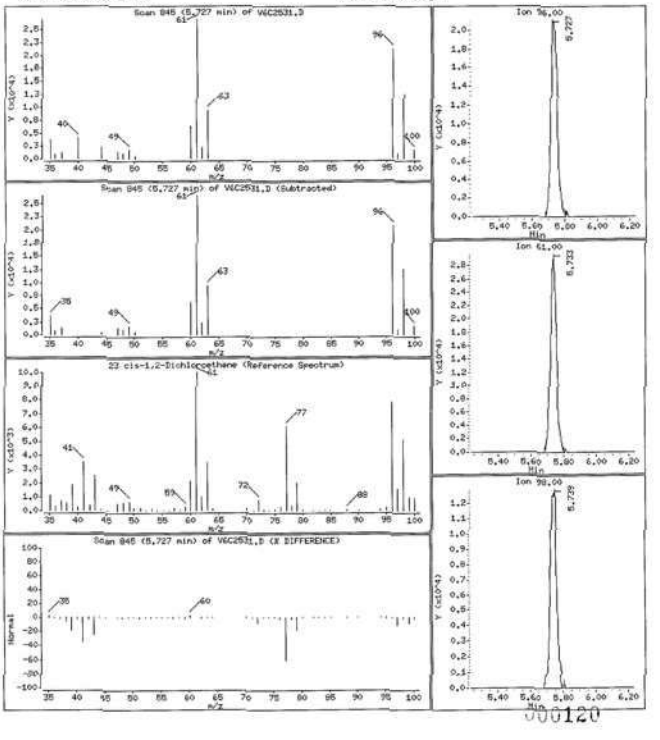
Client ID: 134433 Instrument: v6.1

Sample Info: MRP,A1243-10A,134433,V6308304,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

23 cis-1,2-Dichloroethene Concentration: 5 ug/L



000120

Data File: \\WVOGADRO\USERDATA\Organic\voa\v6.1\020830.B\V6C2531.D

Date : 30-AUG-2002 21:42

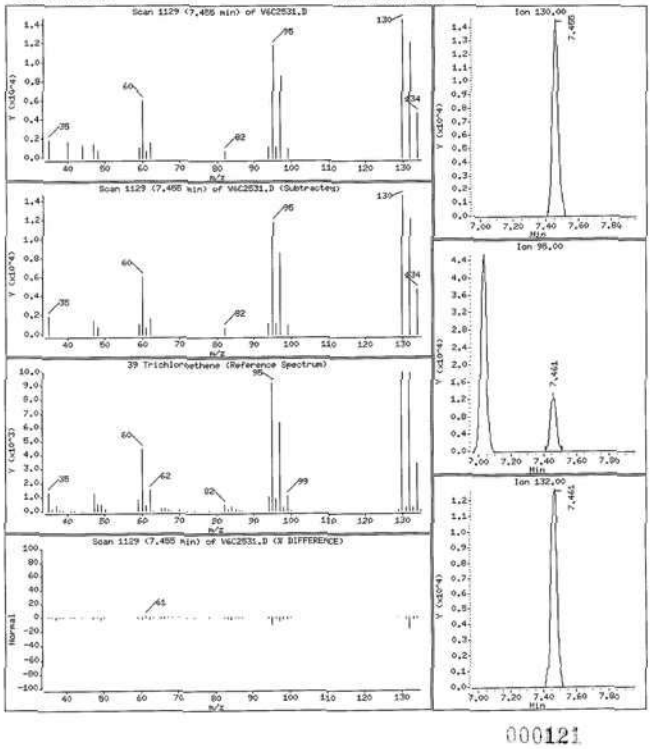
Client ID: 134433 Instrument: v6.1

Sample Info: MRP,A1243-10A,134433,V6308304,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

39 Trichloroethene Concentration: 5 ug/L



000121

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.1\020830.B\V6C2831.D

Date : 30-AUG-2002 21:42

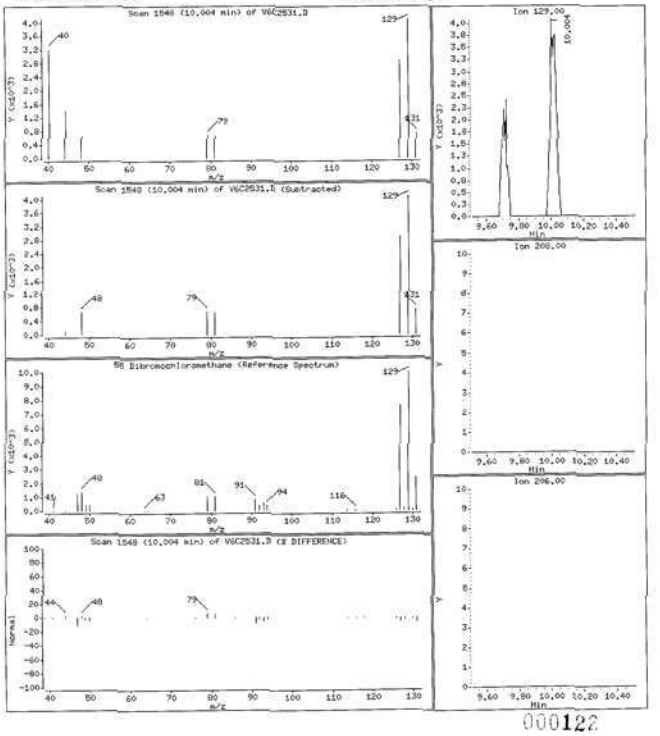
Client ID: 139433 Instrument: v6.1

Sample Info: HRP,A1243-10A,139433,V6B0830A,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

68 Dibromochloromethane Concentration: 2 ug/L



000122

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.1\020830.B\V6C2831.D

Date : 30-AUG-2002 21:42

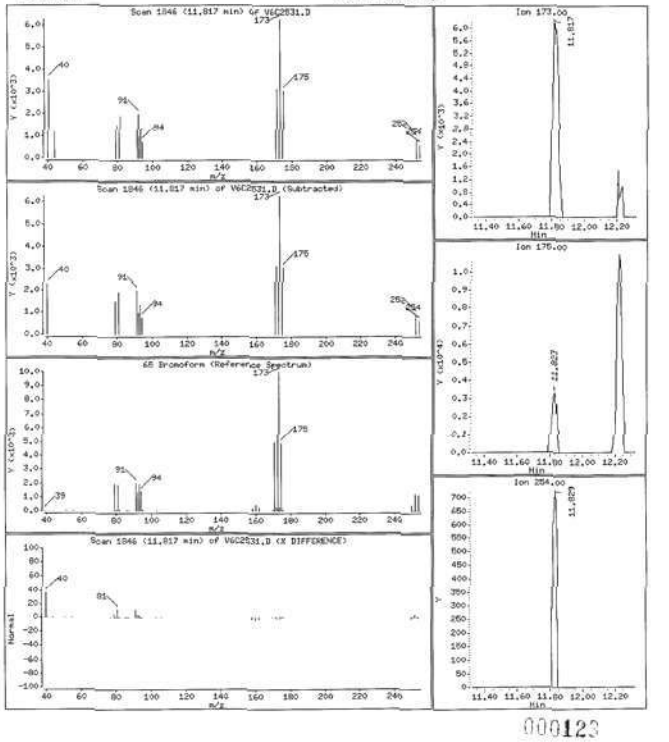
Client ID: 139433 Instrument: v6.1

Sample Info: HRP,A1243-10A,139433,V6B0830A,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

65 Bromoform Concentration: 4 ug/L



000123

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.1\020830.B\V6C2831.D

Date : 30-AUG-2002 21:42

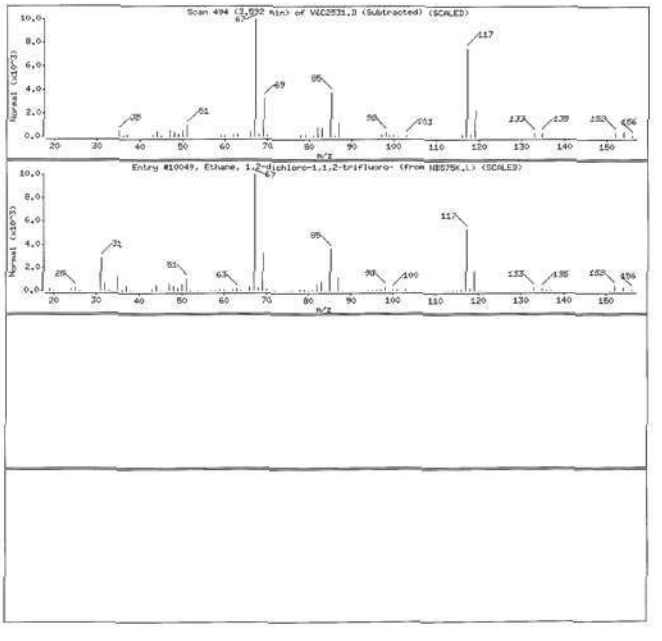
Client ID: 139433 Instrument: v6.1

Sample Info: HRP,A1243-10A,139433,V6B0830A,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethane, 1,2-dichloro-1,1,2-trifluoro-	354-23-4	NBS75K.L	10049	94	C2HCl2F3	152
Branched Alkane			0	0		0



000124

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.1\020830.B\V6C2831.D

Date : 30-AUG-2002 21:42

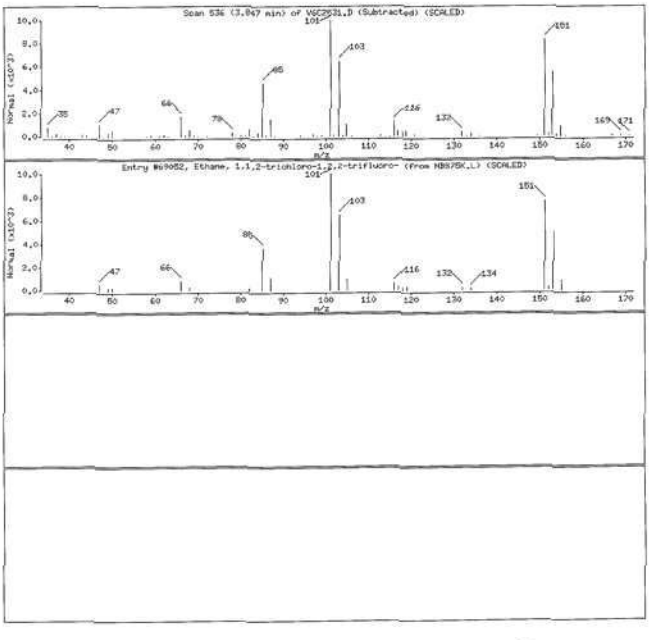
Client ID: 139433 Instrument: v6.1

Sample Info: HRP,A1243-10A,139433,V6B0830A,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethane, 1,1,2-trichloro-1,2,2-trifluoro-	*76-13-1*	*NBS75K.L*	*69052*	*91*	*C2Cl3F3*	*186*



000125

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
20AUG02-GW-T

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-13A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2503
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

000126

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
20AUG02-GW-T

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-13A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2503
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	2	J
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000127

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
20AUG02-GW-T

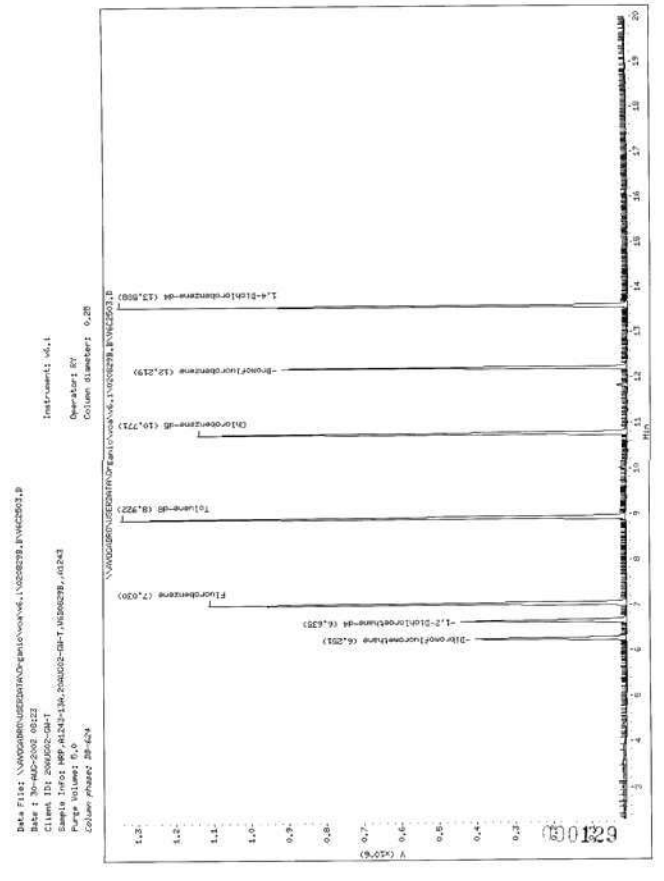
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-13A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2503
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0

000128



000129

Data File: V6C2503.D
Report Date: 10-Sep-2002 17:15

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2503.D
Lab Smp Id: A1243-13A Client Smp ID: 20AUG02-GW-T
Inj Date : 30-AUG-2002 08:23
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-13A,20AUG02-GW-T,V6B0829B,,A1243
Misc Info : 21-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\v68260.m
Meth Date : 10-Sep-2002 17:13 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 48
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compound	QUANT Sig MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 10 Dibromofluoromethane	113	6.257	6.257	(0.690)	325461	82.3527	32
$ 35 1,2-Dichloroethane-d4	102	6.641	6.634	(0.945)	79458	50.7163	51
* 38 Fluorobenzene	96	7.030	7.029	(1.000)	1296485	50.0000	
$ 47 Toluene-d8	98	8.922	8.921	(0.828)	1210295	53.9866	54
55 Dibromochloromethane	129	10.017	10.010	(0.930)	13910	2.28639	2(a)
* 57 Chlorobenzene-d5	117	10.771	10.771	(1.000)	908977	50.0000	
65 Bromoform	173	11.830	11.823	(1.098)	20548	5.16203	5
$ 68 Bromofluorobenzene	95	12.219	12.219	(1.134)	389560	47.9948	48
* 81 1,4-Dichlorobenzene-d4	152	13.588	13.587	(1.000)	477122	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

09/11/02

Data File: V6C2503.D
Report Date: 11-Sep-2002 12:24

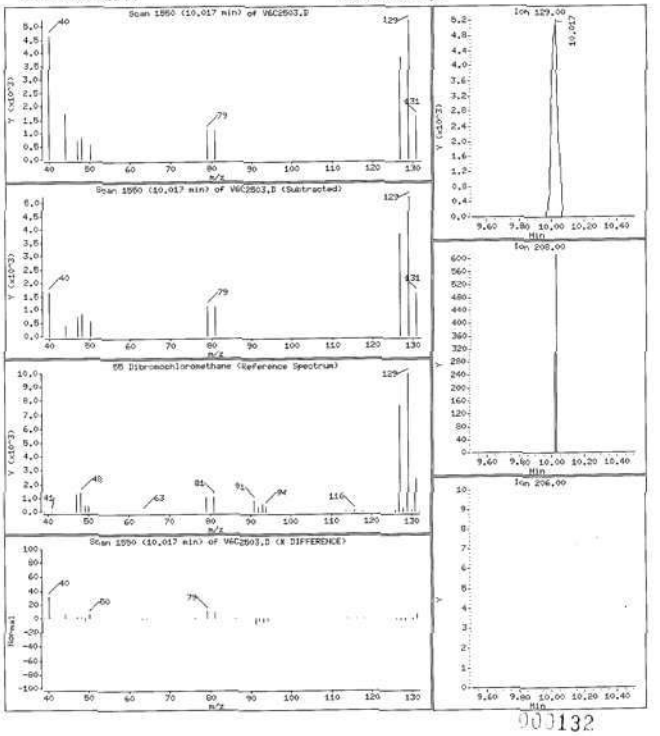
Mitkem Corporation

Method 8260 Water and Medium Soil

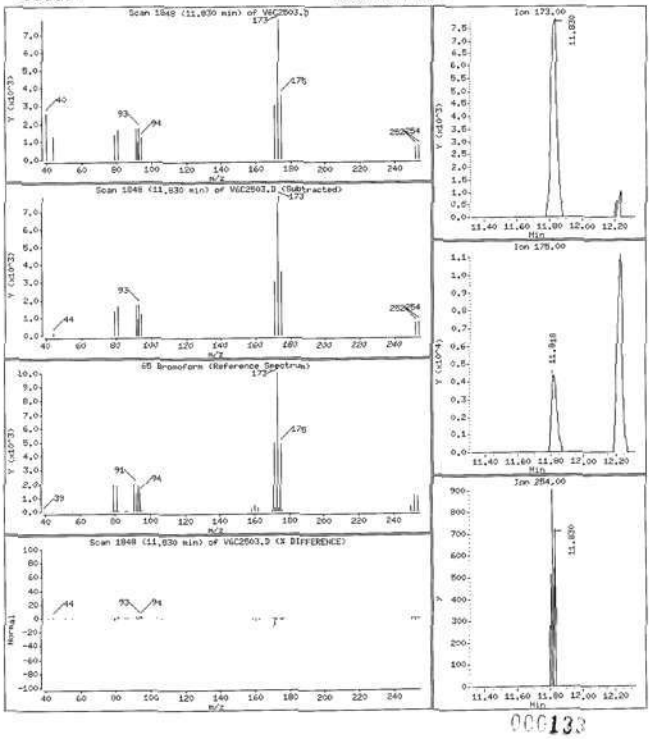
Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2503.D
Lab Smp Id: A1243-13A Client Smp ID: 20AUG02-GW-T
Inj Date : 30-AUG-2002 08:23
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-13A,20AUG02-GW-T,V6B0829B,,A1243
Misc Info : 21-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\v68260.m
Meth Date : 10-Sep-2002 17:36 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 48
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2503.D
Date : 30-AUG-2002 08:23
Client ID: 20AUG02-GW-T Instrument: v6.i
Sample Info: HRP,A1243-13A,20AUG02-GW-T,V6B0829B,,A1243
Purge Volume: 5.0 Operator: RY
Column phase: DB-624 Column diameter: 0.25
55 Dibromochloromethane Concentration: 2 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2503.D
Date : 30-AUG-2002 08:23
Client ID: 20AUG02-GW-T Instrument: v6.i
Sample Info: HRP,A1243-13A,20AUG02-GW-T,V6B0829B,,A1243
Purge Volume: 5.0 Operator: RY
Column phase: DB-624 Column diameter: 0.25
65 Bromoform Concentration: 5 ug/L



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
2MW13

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-26A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2551
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	1	J
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

000134

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
2MW13

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-26A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2551
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000135

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
2MW13

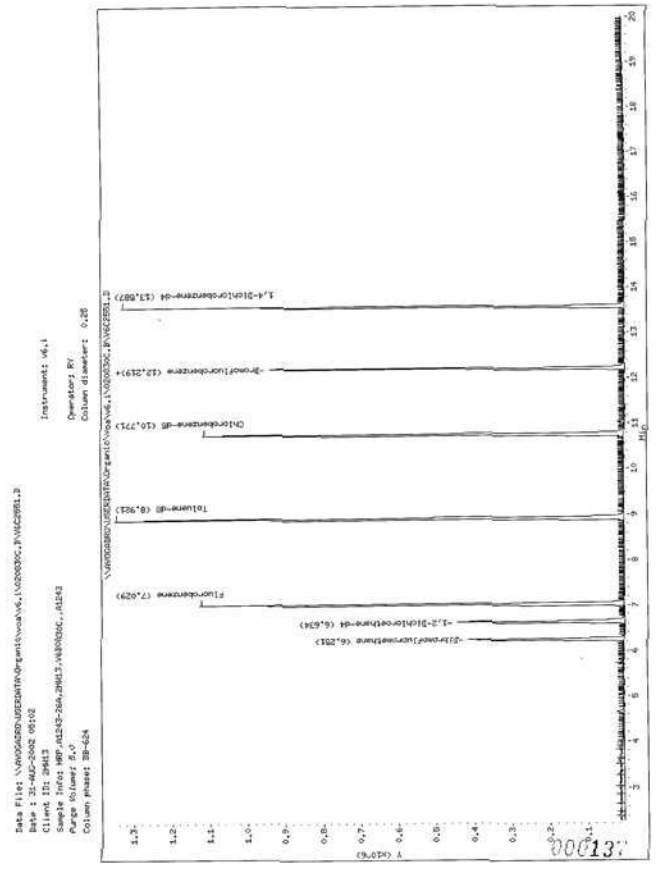
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-26A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2551
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
*Soil Extract Volume:*_____*(uL)* *Soil Aliquot Volume:* _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

000136



000137

Data File: V6C2551.D
Report Date: 11-Sep-2002 12:06

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2551.D
Lab Smp Id: A1243-26A Client Smp ID: 2MW13
Inj Date : 31-AUG-2002 05:02
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-26A,2MW13,V6B0830C,,A1243
Misc Info : 22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D ✓
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	17 Methyl tert-butyl ether	73	4.651	4.645	(0.662)	18270	1.17117	1(a)
$	30 Dibromofluoromethane	113	6.251	6.252	(0.889)	328676	52.1542	52
$	35 1,2-Dichloroethane-d4	102	6.646	6.641	(0.945)	81009	51.7979	52
*	38 Fluorobenzene	96	7.029	7.030	(1.000)	1388201	50.0000	
$	47 Toluene-d8	98	8.921	8.916	(0.828)	1228362	54.2659	54
*	57 Chlorobenzene-d5	117	10.771	10.765	(1.000)	902877	50.0000	
$	68 Bromofluorobenzene	95	12.219	12.219	(1.134)	390054	48.3803	48
*	81 1,4-Dichlorobenzene-d4	152	13.587	13.588	(1.000)	471113	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

9/11/02

Data File: V6C2551.D
Report Date: 11-Sep-2002 12:06

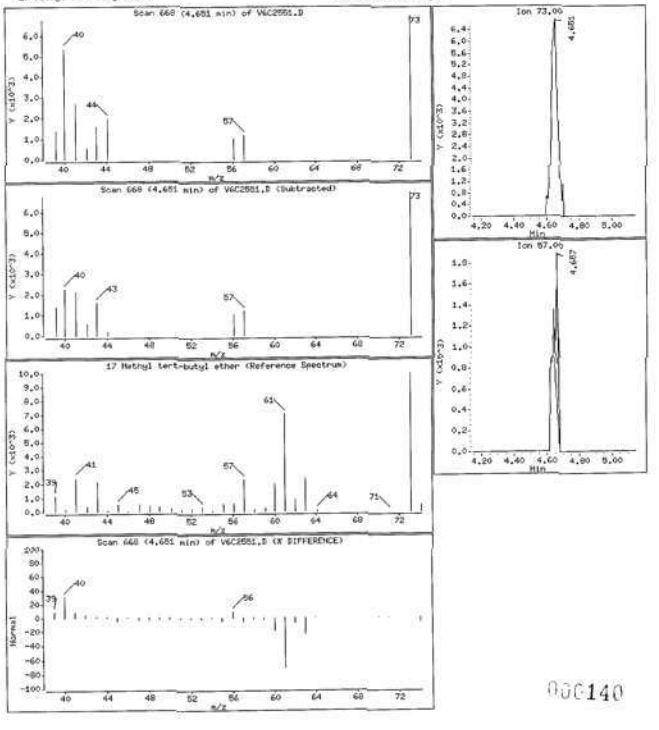
Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2551.D
Lab Smp Id: A1243-26A Client Smp ID: 2MW13
Inj Date : 31-AUG-2002 05:02
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-26A,2MW13,V6B0830C,,A1243
Misc Info : 22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2551.D
Date : 31-AUG-2002 05:02
Client ID: 2MW13 Instrument: v6.i
Sample Info: HRP,A1243-26A,2MW13,V6B0830C,,A1243
Purge Volume: 5.0 Operator: RY
Column phase: DB-624 Column diameter: 0.25
17 Methyl tert-butyl ether Concentration: 1 ug/L



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
2MW26

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER *Lab Sample ID: A1243-25A*
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2550
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	1	J
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

2MW26

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-25A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2550

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000142

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

2MW26

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-25A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2550

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

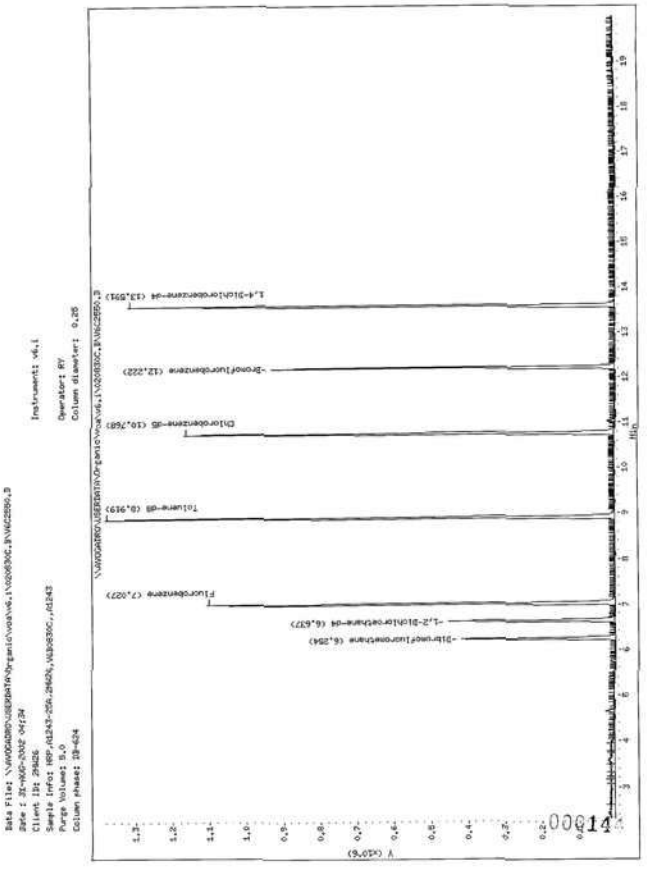
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

000143



000144

Data File: V6C2550.D
Report Date: 10-Sep-2002 17:22

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2550.D
Lab Smp Id: A1243-25A Client Smp ID: 2MW26
Inj Date : 31-AUG-2002 04:34
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-25A,2MW26,V6B0830C,,A1243
Misc Info : 22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON COLUMN (ug/L)	FINAL (ug/L)	
	17 Methyl tert-butyl ether	73	6.648	6.645	(5.661)	21939	1.38679		1(a)
S	30 Dibromofluoromethane	111	6.254	6.252	(0.890)	326514	51.0902		51
S	35 1,2-Dichloroethane-d4	102	6.637	6.641	(0.945)	81208	51.3026		51
*	38 Fluorobenzene	96	7.027	7.030	(1.000)	1306379	50.0000		
S	47 Toluene-d8	98	8.919	8.916	(0.828)	1258318	54.9055		55
*	57 Chlorobenzene-d5	117	10.768	10.765	(1.000)	914122	50.0000		
S	68 Bromofluorobenzene	95	12.216	12.219	(1.134)	193196	48.1701		48
*	81 1,4-Dichlorobenzene-d4	152	13.591	13.588	(1.000)	476871	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

9/11/02

000145

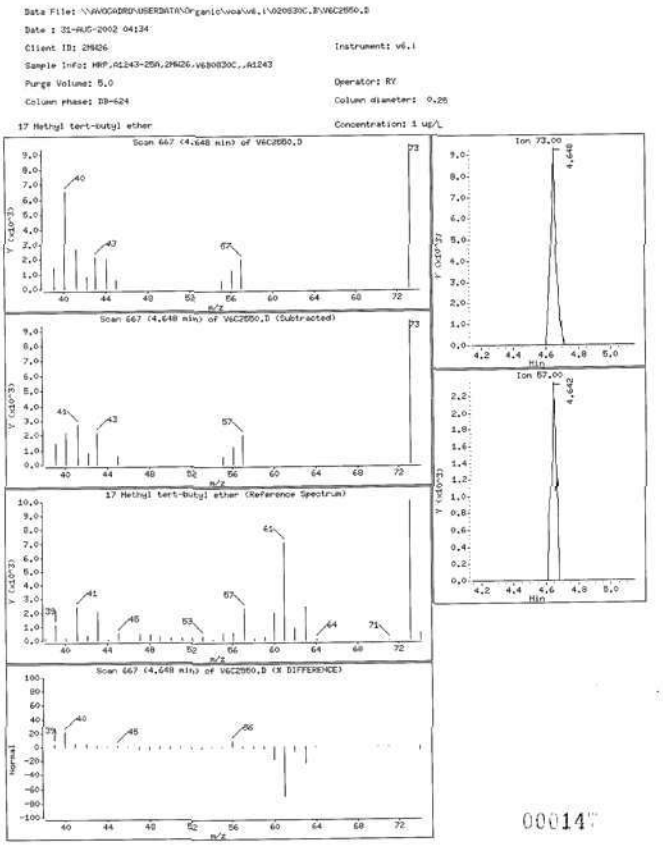
Data File: V6C2550.D
Report Date: 10-Sep-2002 17:22

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2550.D
Lab Smp Id: A1243-25A Client Smp ID: 2MW26
Inj Date : 31-AUG-2002 04:34
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-25A,2MW26,V6B0830C,,A1243
Misc Info : 22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 3MW27

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-28A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2552
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	100	
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	4	J
67-64-1	Acetone	9	
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	1	J
75-34-3	1,1-Dichloroethane	6	
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	55	
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 3MW27

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-28A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2552
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

3MW27

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-28A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2552

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

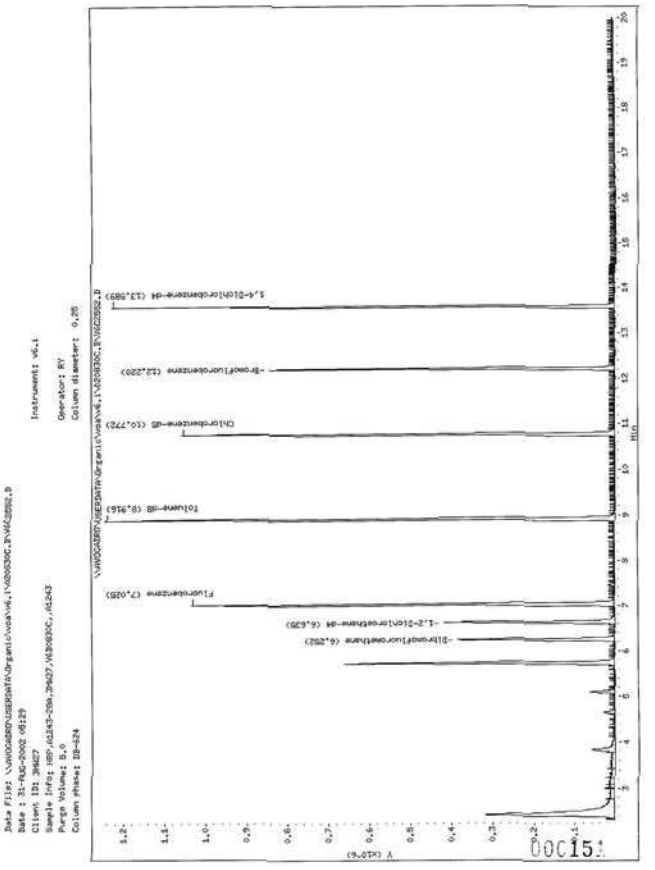
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

000150



000151

Data File: V6C2552.D
Report Date: 10-Sep-2002 17:22

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2552.D
Lab Smp Id: A1243-28A Client Smp ID: 3MW27
Inj Date : 31-AUG-2002 05:29
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-28A,3MW27,V6B0830C,,A1243
Misc Info : 22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
	3 Vinyl Chloride	62	2.419	2.419	(0.344)	1014814	100.365	100	
	8 1,1-Dichloroethene	96	3.825	3.810	(0.544)	34577	4.18582	4(a)	MS
	9 Acetone	43	3.849	3.849	(0.548)	19124	9.31204	9(QM)	YL
	17 Methyl tert-butyl ether	73	4.658	4.645	(0.663)	17782	1.19653	1(a)	09/11/02
	18 1,1-Dichloroethane	63	5.096	5.096	(0.725)	74674	6.46737	6	
	23 cis-1,2-Dichloroethene	96	5.735	5.734	(0.816)	369957	55.2456	55	
S	30 Dibromofluoromethane	113	6.252	6.252	(0.890)	321252	52.0272	52	
S	35 1,2-Dichloroethane-d4	102	6.535	6.541	(0.945)	74945	50.3021	50	
*	38 Fluorobenzene	96	7.024	7.030	(1.000)	1227911	50.0000		
S	47 Toluene-d8	98	8.923	8.916	(0.828)	1140569	55.0536	55	
*	57 Chlorobenzene-d5	117	10.772	10.765	(1.000)	840843	50.0000		
S	68 Bromofluorobenzene	95	12.220	12.219	(1.134)	361262	48.1123	48	
*	81 1,4-Dichlorobenzene-d4	152	13.589	13.588	(1.000)	462771	50.0000		

YL
09/11/02

000152

Data File: V6C2552.D
Report Date: 10-Sep-2002 17:22

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

000153

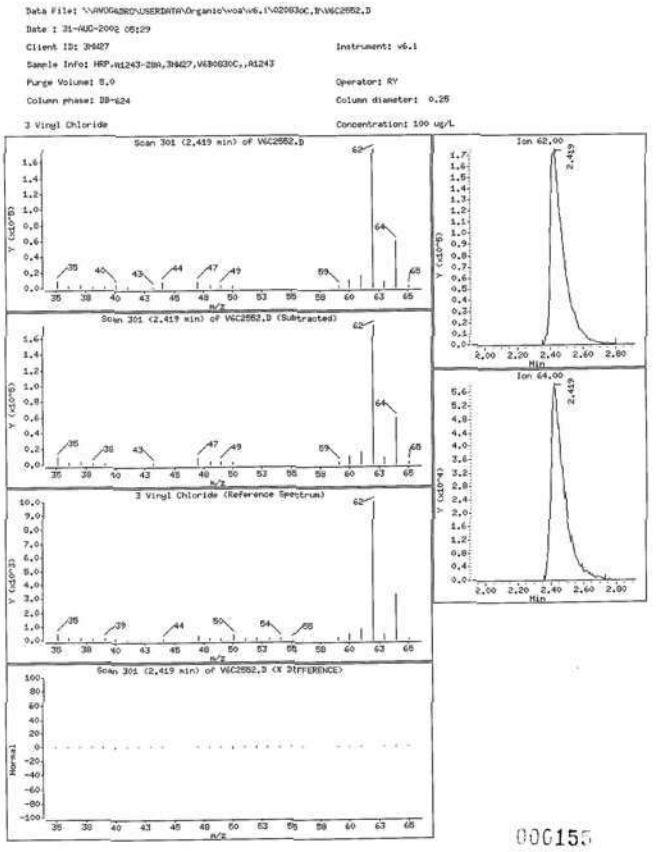
Data File: V6C2552.D
Report Date: 10-Sep-2002 17:22

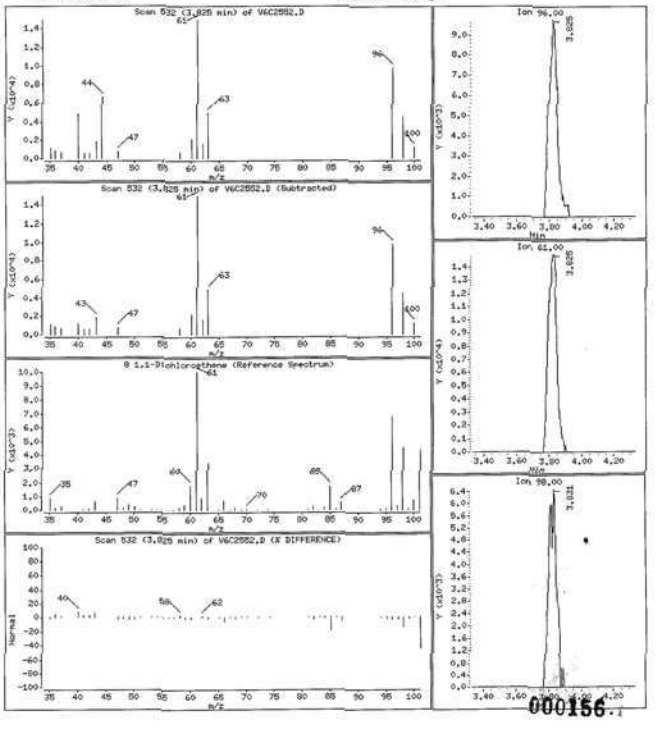
Mitkem Corporation

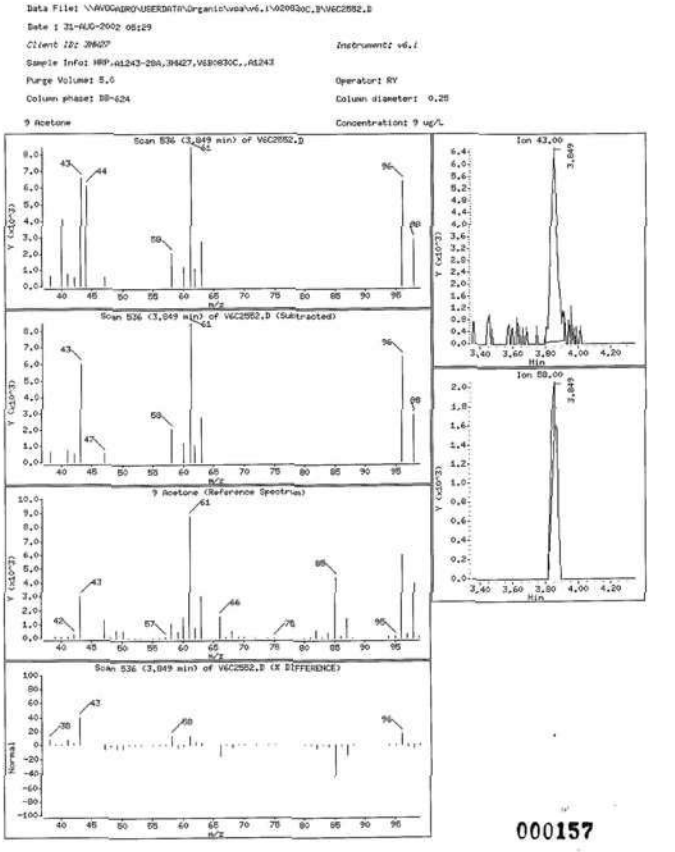
Method 8260 Water and Medium Soil

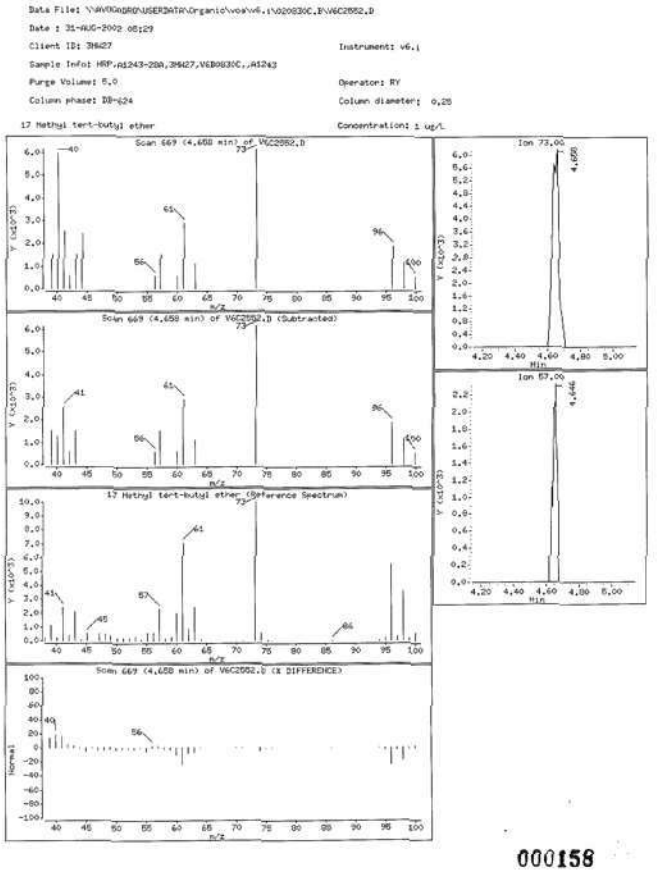
Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2552.D
Lab Smp Id: A1243-28A Client Smp ID: 3MW27
Inj Date : 31-AUG-2002 05:29
Operator : RY Inst ID: v6.i
Smp Info : HRP,AI243-28A,3MW27,V6B0830C,,A1243
Misc Info : 22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

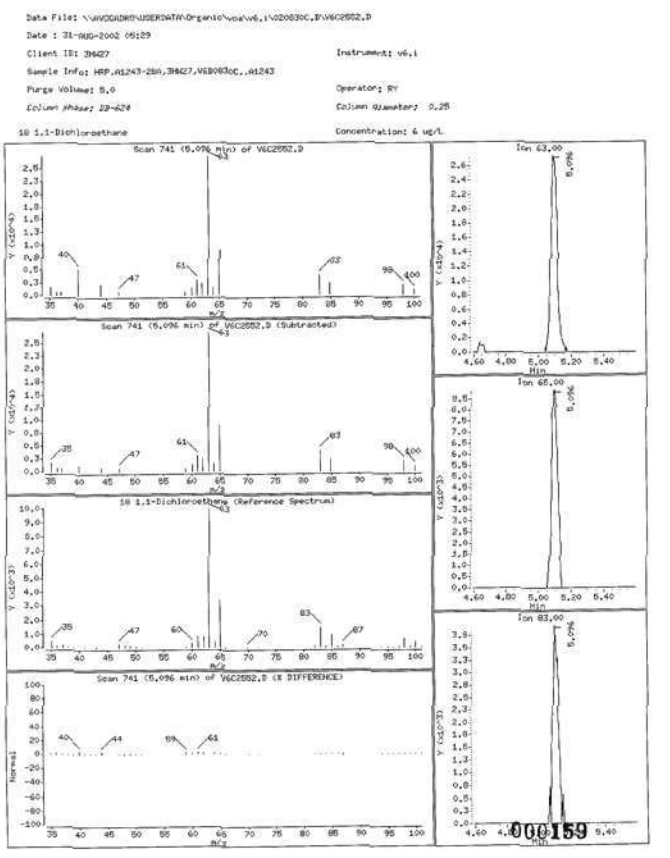




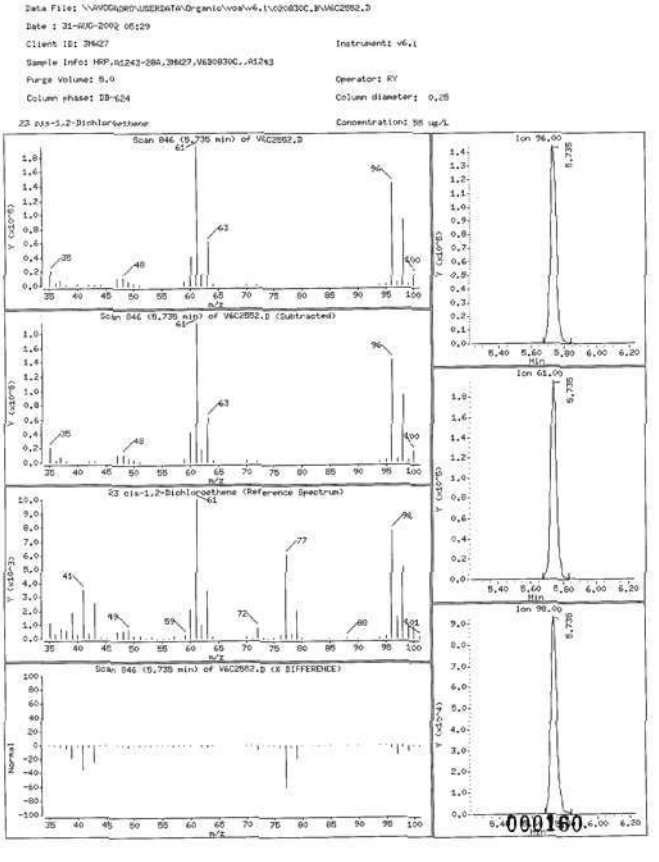




000158



000159



000160

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6MW29

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-24A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2549

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	8	
75-34-3	1,1-Dichloroethane	2	J
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

000161

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
6MW29

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-24A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2549
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1 Chlorohexane	5	U

FORM I VOA OLM03.0

000162

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
6MW29

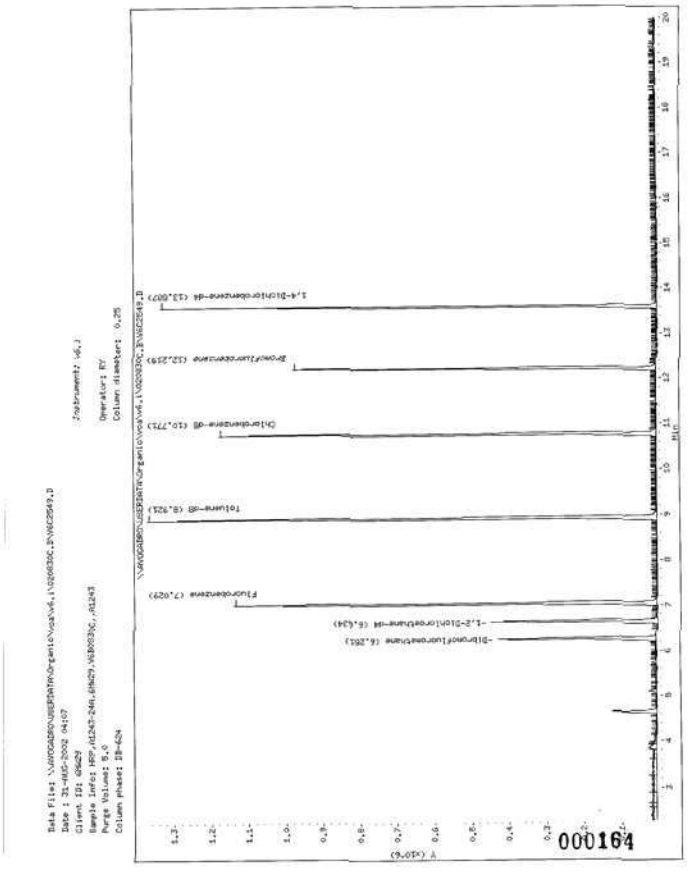
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-24A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2549
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

000163



000164

Data File: V6C2549.D
Report Date: 10-Sep-2002 17:22

Mitkem Corporation

Method 8260 Water and Medium Soil
Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2549.D
Lab Smp Id: A1243-24A Client Smp ID: 6MW29
Inj Date : 31-AUG-2002 04:07
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-24A,6MW29,V6B0830C,,A1243
Misc Info : 22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D ✓
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub ✓
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT RIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
17 Methyl tert-butyl ether	73	6.651	6.645	(0.662)	133403	8.21646	8
18 1,1-Dichloroethane	63	5.055	5.096	(0.725)	25916	2.05449	2(a)
$ 19 Dibromofluoromethane	113	6.251	6.252	(0.889)	336098	51.2424	51
$ 35 1,2-Dichloroethane-d4	102	6.634	6.641	(0.944)	80356	49.3673	49
* 38 Fluorobenzene	96	7.029	7.030	(1.000)	1340730	50.0000	
$ 47 Toluene-d8	98	8.921	8.916	(0.820)	1201333	55.3941	55
* 57 Chlorobenzene-d5	117	10.771	10.765	(1.000)	929832	50.0000	
$ 68 Bromofluorobenzene	95	12.219	12.219	(1.134)	401468	48.5934	48
* 81 1,4-Dichlorobenzene-d4	152	13.587	13.588	(1.000)	889338	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

09/11/02

000165

Data File: V6C2549.D
Report Date: 10-Sep-2002 17:22

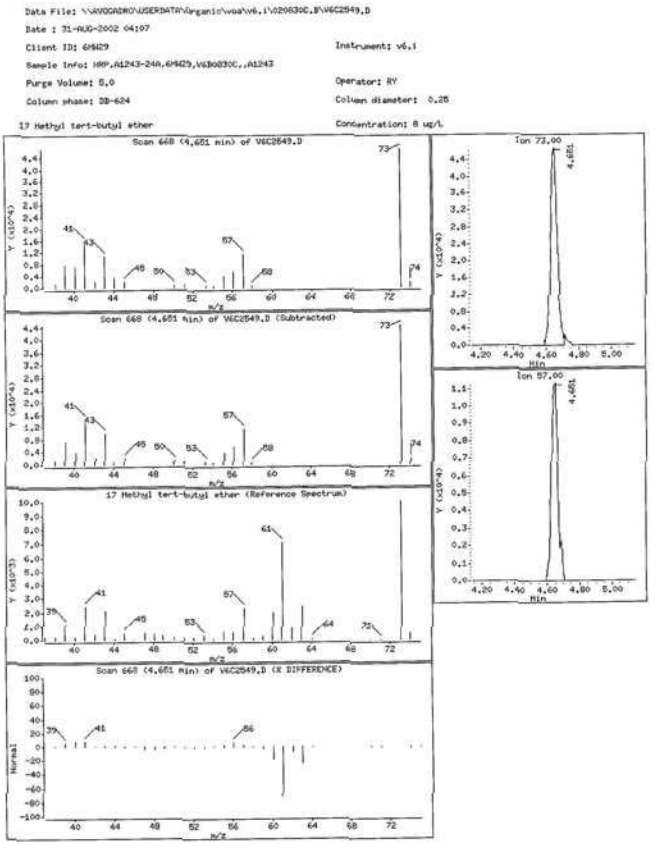
Mitkem Corporation

Method 8260 Water and Medium Soil

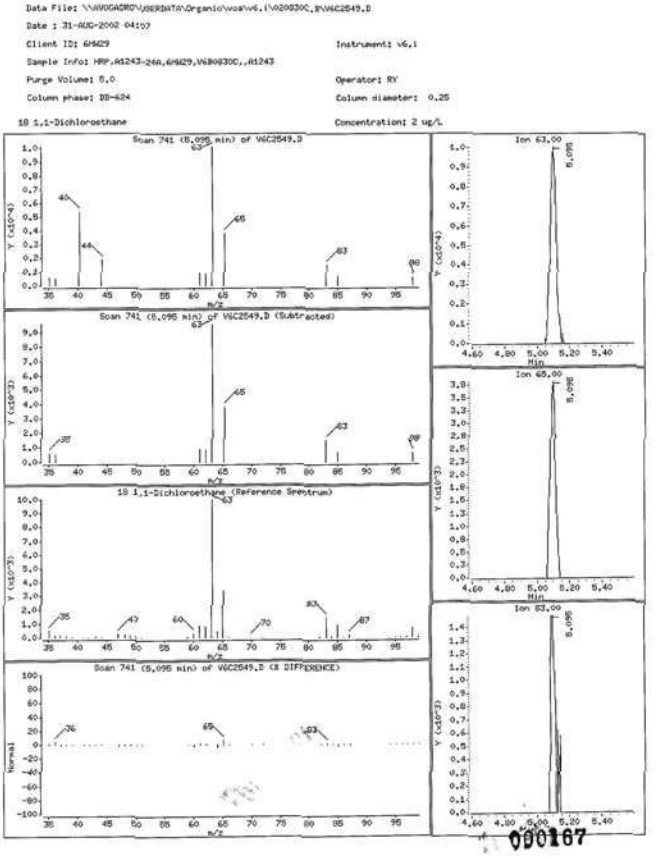
Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2549.D
Lab Smp Id: A1243-24A
Client Smp ID: 6MW29
Inj Date : 31-AUG-2002 04:07
Operator : RY
Inst ID: v6.i
Smp Info : HRP,A1243-24A,6MW29,V6B0830C,,A1243
Misc Info : 22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl
Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31
Cal File: V6C2196.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

000165A



000166



000167

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
6MW9

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-23A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2548
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	13	
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	9	
75-34-3	1,1-Dichloroethane	2	J
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

000168

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
6MW9

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-23A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2548
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

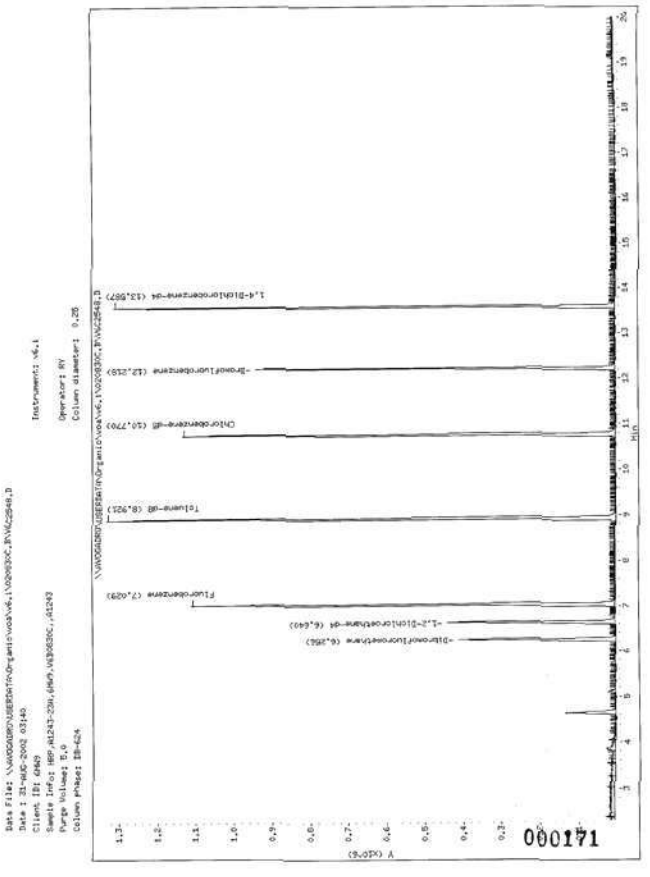
EPA SAMPLE NO.
6MW9

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-23A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2548
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: *(ug/L or ug/Kg) ug/L*

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0



Data File: V6C2548.D
Report Date: 10-Sep-2002 17:22

Mitkem Corporation

Method 8260 Water and Medium Soil
Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2548.D
Lab Smp Id: A1243-23A Client Smp ID: 6MW9
Inj Date : 31-AUG-2002 03:40
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-23A,6MW9,V6B0830C,,A1243
Misc Info : 22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D ✓
Als bottle: 25
Dil Factor: 1.00000
Integrator: *HP RTE* *Compound Sublist: HRP.sub* ✓
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
8 Acetone	43	3.853	3.849	(0.548)	27214	13.1453	13(Q)	
17 Methyl tert-butyl ether	73	4.450	4.445	(0.642)	143692	9.09532	9	
18 1,1-Dichloroethane	63	5.094	5.096	(0.725)	25403	2.06845	2(a)	
$ 30 Dibromofluoromethane	113	6.255	6.252	(0.889)	332757	52.1093	52	
$ 35 1,2 Dichloroethane-D4	102	6.440	6.441	(0.915)	79997	50.4800	50	
* 38 Fluorobenzene	96	7.029	7.030	(1.000)	1305331	50.0000		
$ 47 Toluene-D8	98	8.921	8.916	(0.838)	1254773	54.0644	54	
* 57 Chlorobenzene-d5	117	10.770	10.765	(1.000)	910569	50.0000		
$ 68 Bromofluorobenzene	95	12.218	12.219	(1.134)	392373	48.2568	48	
* 81 1,4-Dichlorobenzene-d4	152	13.587	13.588	(1.000)	477794	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Y/N
09/11/02

Data File: V6C2548.D
Report Date: 10-Sep-2002 17:22

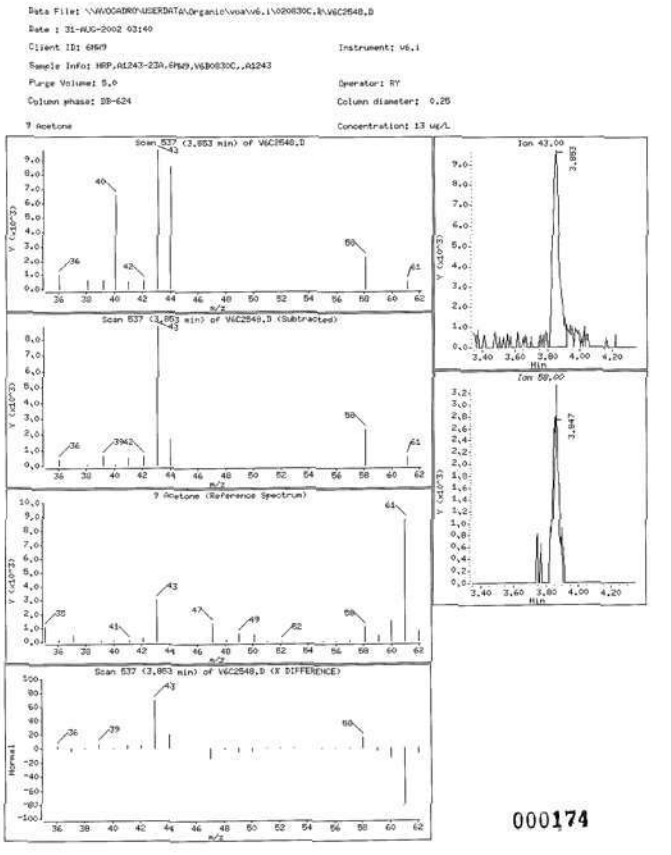
Mitkem Corporation

Method 8260 Water and Medium Soil

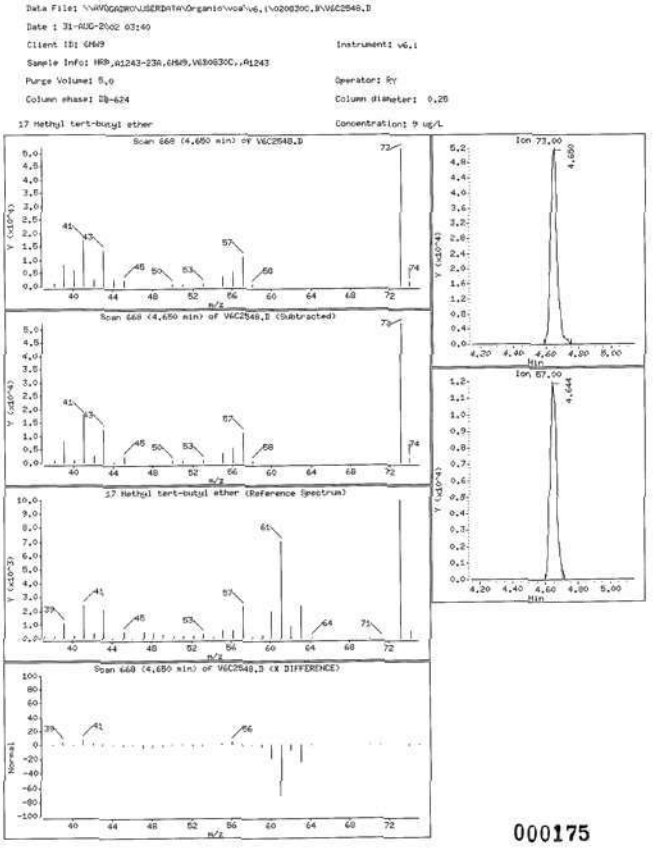
Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2548.D
Lab Smp Id: A1243-23A Client Smp ID: 6MW9
Inj Date : 31-AUG-2002 03:40
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-23A,6MW9,V6B0830C,,A1243
Misc Info : 22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 25
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

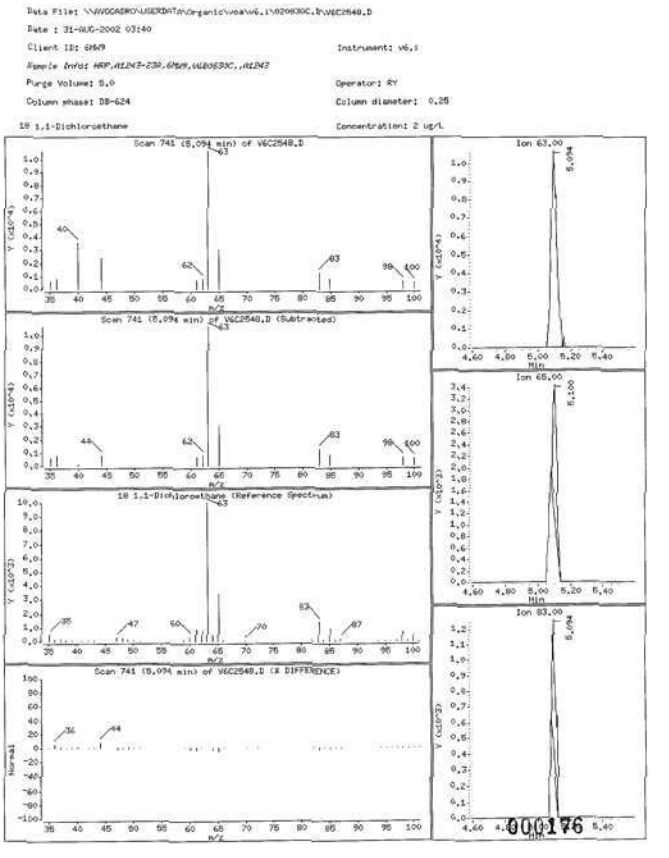
000173



000174



000175



000176

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
7MW30

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-31A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2555
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	1	J
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	3	J
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	20	
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	2	J
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

000177

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
7MW30

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-31A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2555
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000178

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
7MW30

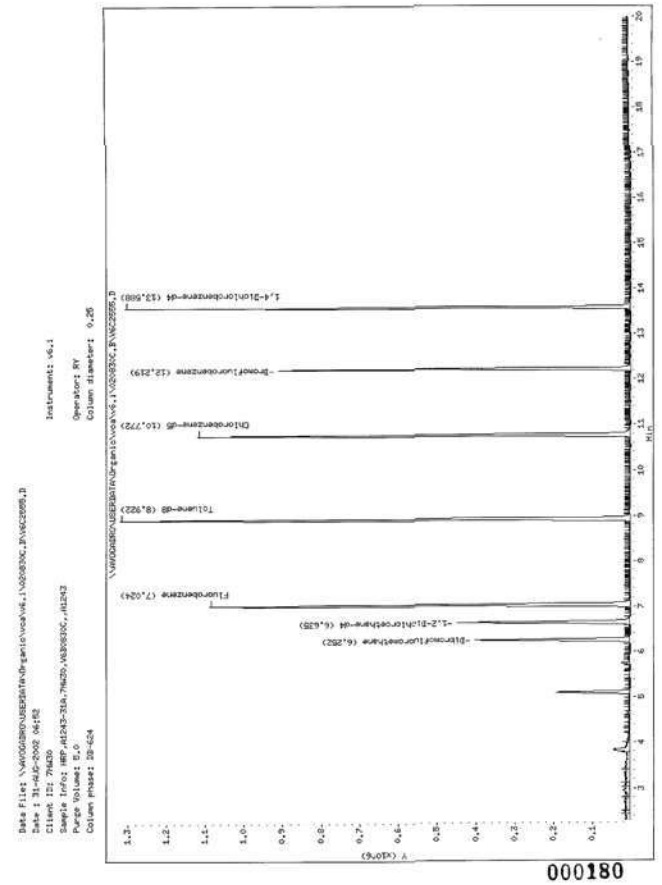
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-31A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2555
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0

000179



000180

Data File: V6C2555.D
Report Date: 10-Sep-2002 17:22

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2555.D
Lab Smp Id: A1243-31A Client Smp ID: 7MW30
Inj Date : 31-AUG-2002 06:52
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-31A,7MW30,V6B0830C,,A1243
Misc Info : 22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 32
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	REF RT	RRL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
5 Chloroethane	64	2.966	2.948	(0.422)	6246	1.03934	1(a)
8 1,1-Dichloroethene	96	3.830	3.830	(0.545)	28421	3.32772	3(a)
18 1,1-Dichloroethane	63	5.090	5.096	(0.724)	238807	20.0041	20
23 cis-1,2-Dichloroethene	96	5.734	5.734	(0.816)	31980	1.73026	2(aQ)
S 30 Dibromofluoromethane	113	6.252	6.252	(0.889)	320719	51.6681	52
S 35 1,2-Dichloroethane-d4	102	6.635	6.641	(0.944)	77676	50.4748	50
* 38 Fluorobenzene	96	7.030	7.030	(1.000)	1268836	50.0000	
S 47 Toluene-d8	98	8.922	8.916	(0.828)	1219661	55.4161	55
* 57 Chlorobenzene-d5	117	10.772	10.765	(1.000)	877875	50.0000	
S 68 Bromofluorobenzene	95	12.219	13.219	(1.134)	368789	47.0455	47
* 81 1,4-Dichlorobenzene-d4	152	13.588	13.588	(1.000)	461669	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

9/11/02

Data File: V6C2555.D
Report Date: 10-Sep-2002 17:22

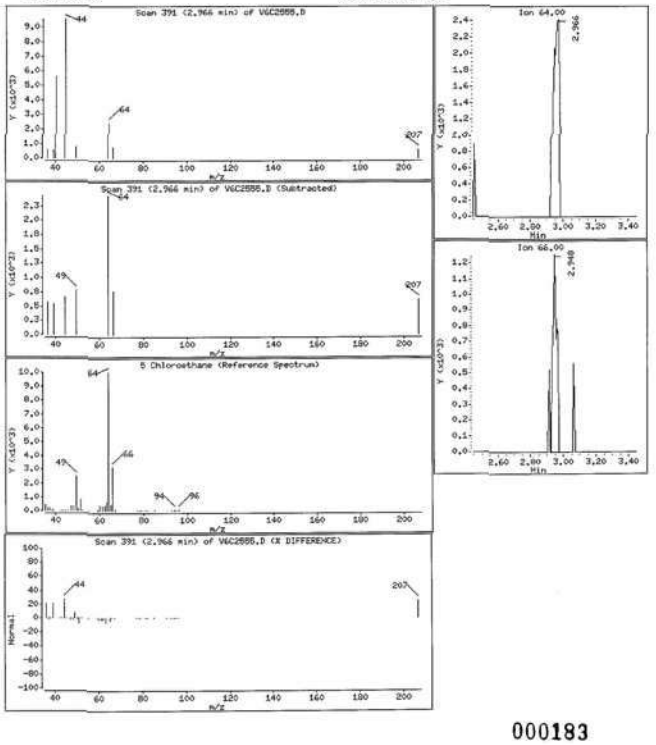
Mitkem Corporation

Method 8260 Water and Medium Soil

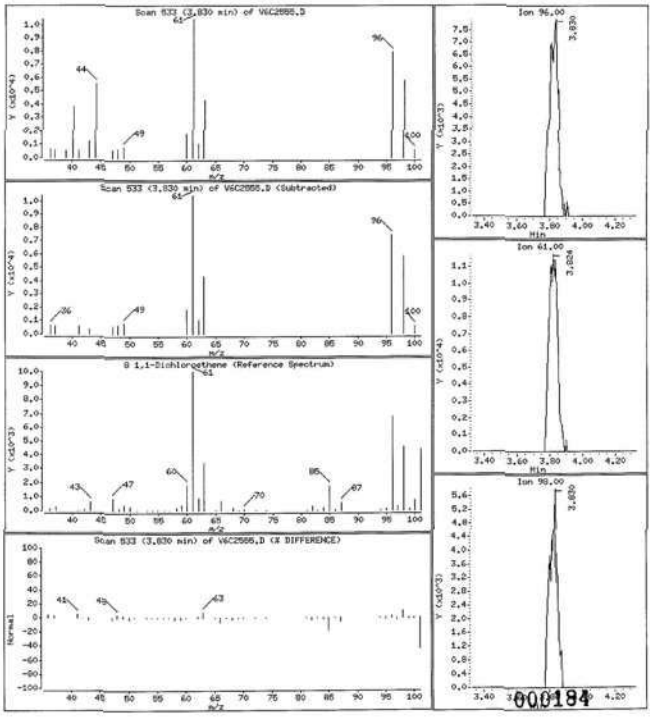
Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2555.D
Lab Smp Id: A1243-31A Client Smp ID: 7MW30
Inj Date : 31-AUG-2002 06:52
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-31A,7MW30,V6B0830C,,A1243
Misc Info : 22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 32
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

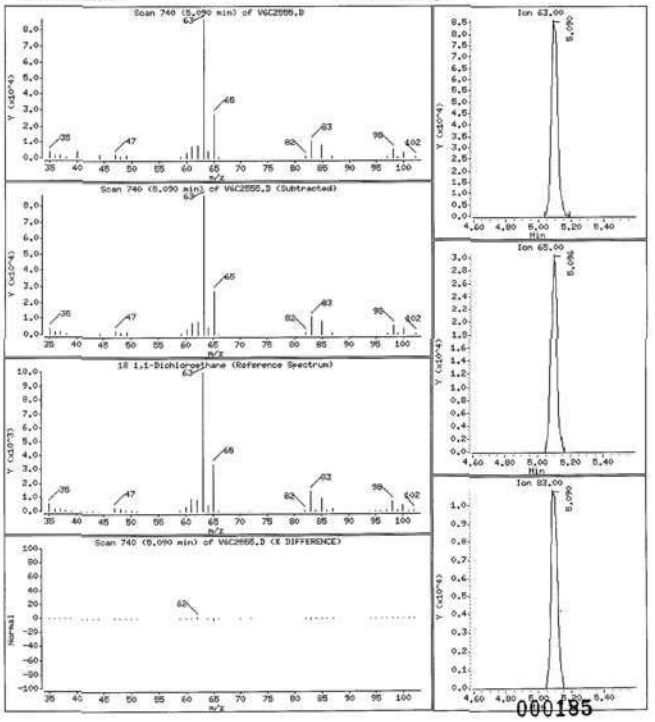
- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2555.D
Date : 31-AUG-2002 06:52
Client ID: 7MW30 Instrument: v6.i
Sample Info: HRP,A1243-31A,7MW30,V6B0830C,,A1243
Purge Volume: 5.0 Operator: RY
Column phase: DB-624 Column diameter: 0.25
5 Chloroethane Concentration: 1 ug/L

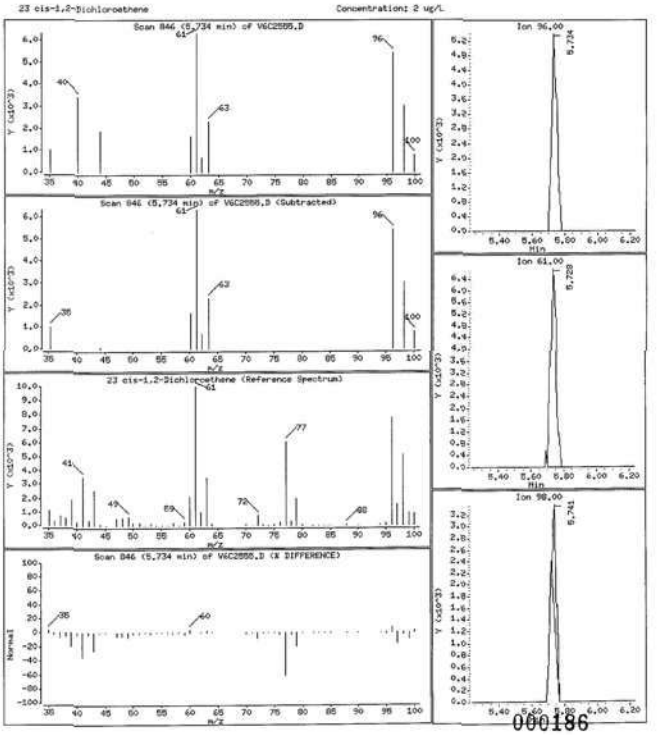


Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2555.D
Date : 31-AUG-2002 06:52
Client ID: 7MW30 Instrument: v6.i
Sample Info: HRP,A1243-31A,7MW30,V6B0830C,,A1243
Purge Volume: 5.0 Operator: RY
Column phase: DB-624 Column diameter: 0.25
8 1,1-Dichloroethene Concentration: 3 ug/L





000185



000186

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 7MW8

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-29A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2553
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	1	J
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	4	J
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	21	
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	2	J
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	*Benzene*	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

000187

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 7MW8

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-29A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2553
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	*n-Butylbenzene*	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000188

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

7MW8

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-29A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2553

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

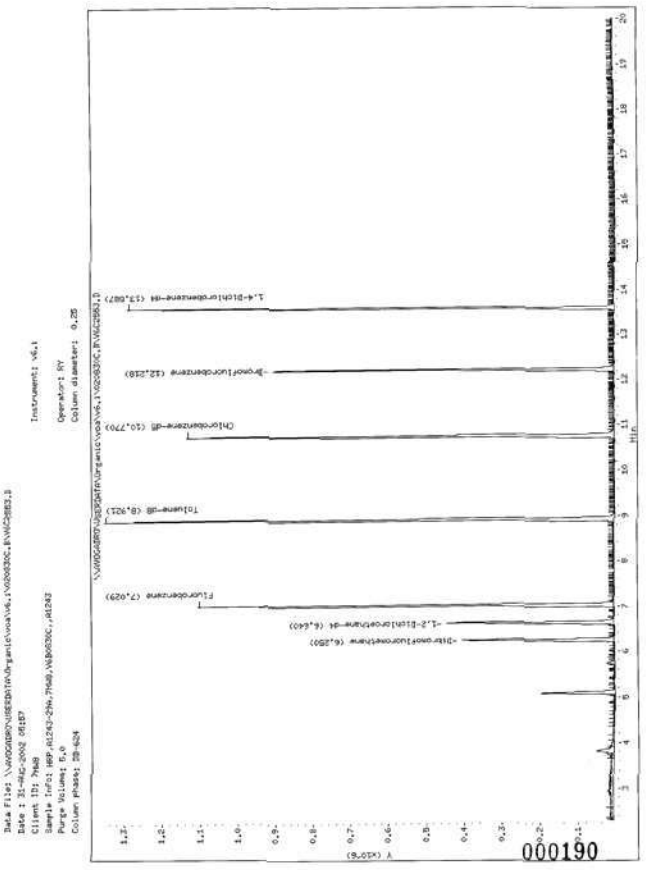
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0



Data File: V6C2553.D
Report Date: 10-Sep-2002 17:22

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2553.D
Lab Smp Id: A1243-29A Client Smp ID: 7MW8
Inj Date : 31-AUG-2002 05:57
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-29A,7MW8,V6B0830C,,A1243
Misc Info : 22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATION ON-COLUMN (ug/L)	CONCENTRATION FINAL (ug/L)
5 Chloroethane	64	2.959	2.948	(0.431)	6894	1.13177	1(a)
8 1,1-Dichloroethene	96	3.811	3.830	(0.542)	32801	3.80365	4(a)
18 1,1-Dichloroethane	63	5.094	5.096	(0.725)	250084	20.7474	21
23 cis-1,2-Dichloroethene	96	5.739	5.734	(0.817)	12558	1.79633	2(a)
$ 30 Dibromofluoromethane	113	6.250	6.252	(0.889)	328742	52.4518	52
$ 35 1,2-Dichloroethane-d4	102	6.640	6.641	(0.948)	79908	51.3751	51
* 38 Fluorobenzene	96	7.029	7.030	(1.000)	1281150	50.0000	
$ 47 Toluene-d8	98	8.921	8.916	(0.828)	1328729	55.0543	55
* 53 Chlorobenzene-d5	117	10.770	10.765	(1.000)	890213	50.0000	
$ 68 Bromofluorobenzene	95	12.218	12.219	(1.134)	376594	47.3753	47
* 81 1,4-Dichlorobenzene-d4	152	17.587	17.588	(1.000)	464518	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

09/11/02

Data File: V6C2553.D
Report Date: 10-Sep-2002 17:22

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2553.D
Lab Smp Id: A1243-29A Client Smp ID: 7MW8
Inj Date : 31-AUG-2002 05:57
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-29A,7MW8,V6B0830C,,A1243
Misc Info : 22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.b
Als bottle: 30
Dil Factor: 1.00000
Integrator: *HP RTE* Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C,B\V6C2853.D

Date : 31-AUG-2002 05:57

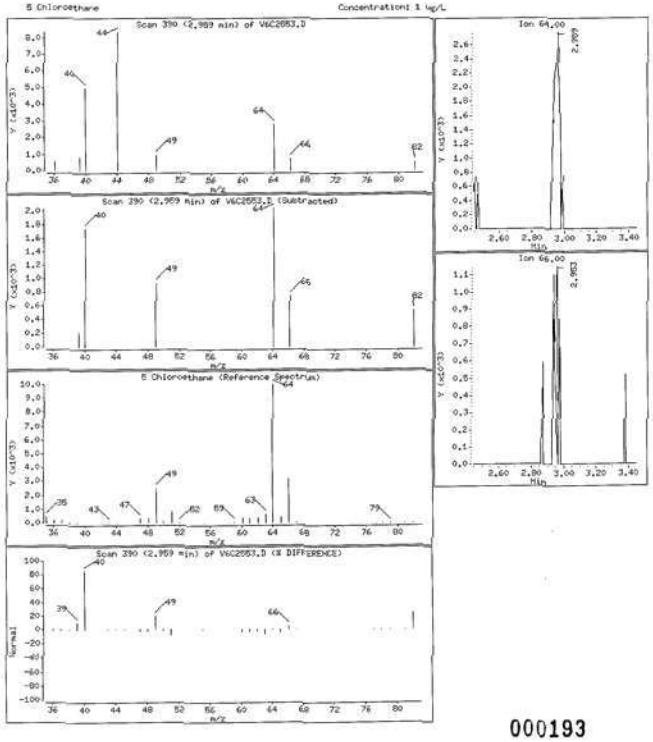
Client ID: 7648 Instrument: v6.i

Sample Info: MRP,A1243-29A,7648,V630830C,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

5 Chloroethane Concentration: 1 ug/L



000193

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C,B\V6C2853.D

Date : 31-AUG-2002 05:57

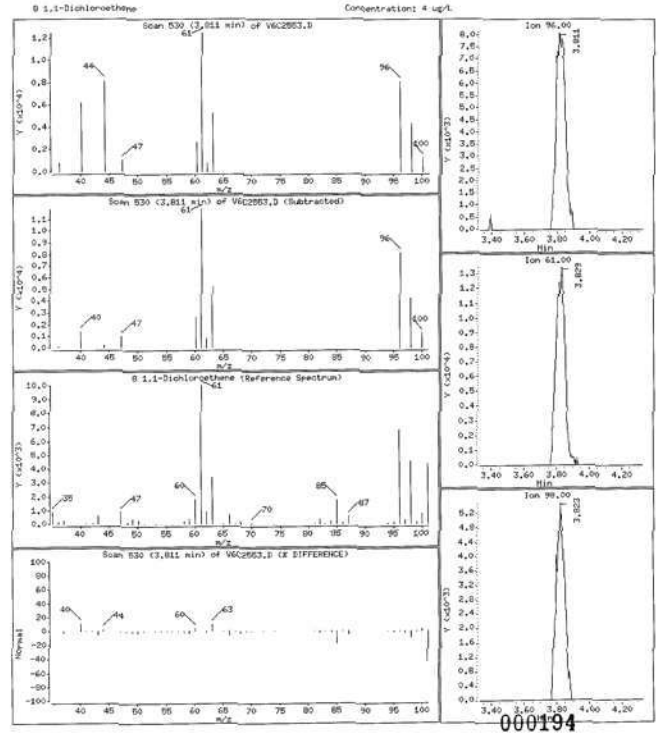
Client ID: 7648 Instrument: v6.i

Sample Info: MRP,A1243-29A,7648,V630830C,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

8 1,1-Dichloroethene Concentration: 4 ug/L



000194

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C,B\V6C2853.D

Date : 31-AUG-2002 05:57

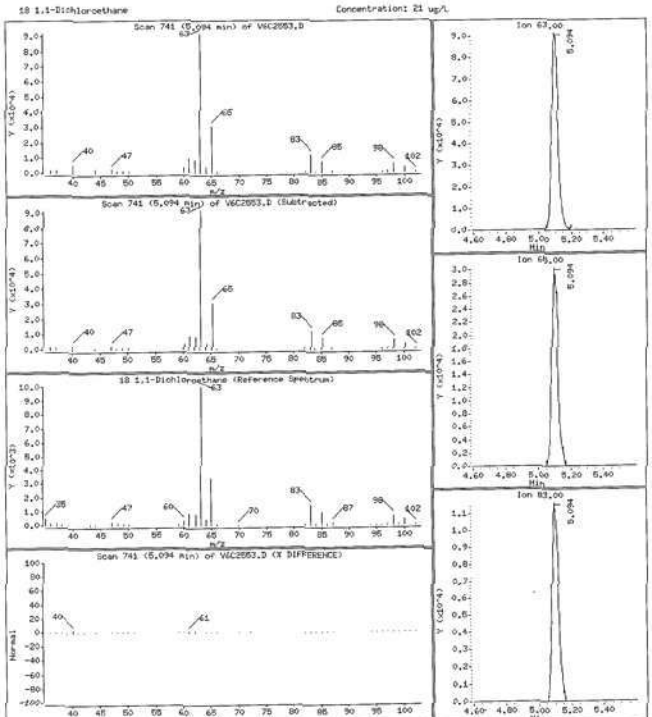
Client ID: 7648 Instrument: v6.i

Sample Info: MRP,A1243-29A,7648,V630830C,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

18 1,1-Dichloroethane Concentration: 21 ug/L



000195

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C,B\V6C2853.D

Date : 31-AUG-2002 05:57

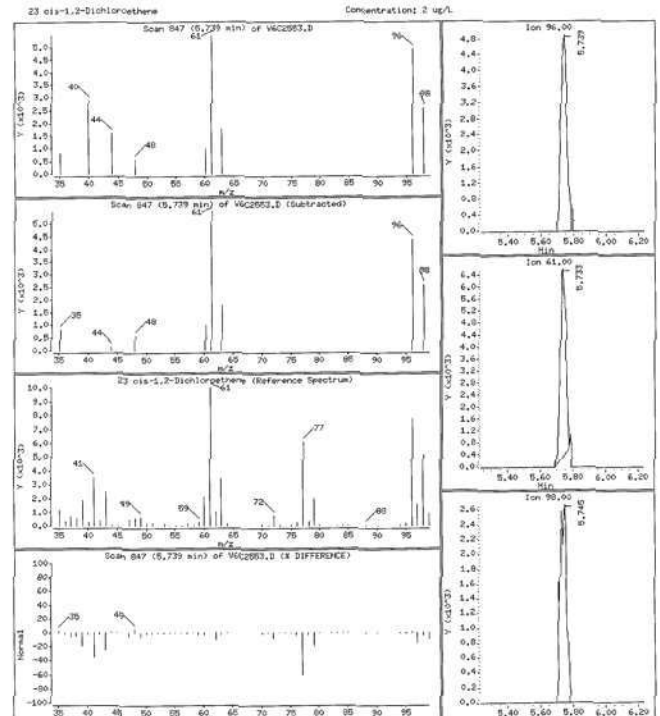
Client ID: 7648 Instrument: v6.i

Sample Info: MRP,A1243-29A,7648,V630830C,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

23 cis-1,2-Dichloroethene Concentration: 2 ug/L



000196

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW36

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-20A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2533

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	15	
75-09-2	Methylene Chloride	87	
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW36

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-20A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2533

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EMW36

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-20A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2533

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

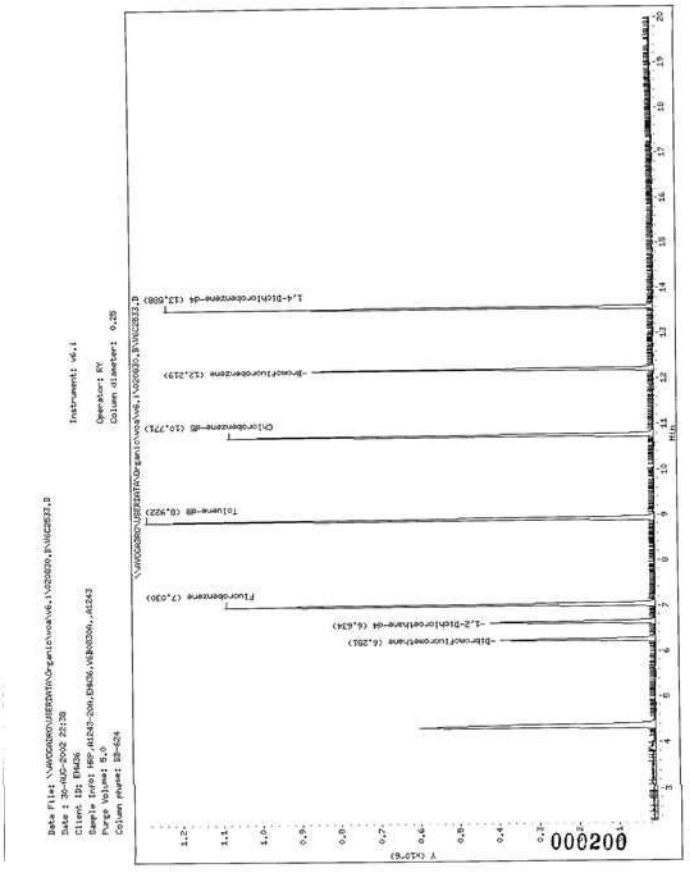
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2533.D
Report Date: 10-Sep-2002 17:17

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2533.D
Lab Smp Id: A1243-20A Client Smp ID: EMW36
Inj Date : 30-AUG-2002 22:38
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-20A,EMW36,V6B0830A,,A1243
Misc Info : 22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\v68260.m
Meth Date : 10-Sep-2002 17:16 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D ✓
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub ✓
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON COLUMN (ug/L)	FINAL (ug/L)	
9 Acetone	43	3.848	3.848	(0.547)	28762	14.7783	15	(M)
14 Methylene Chloride	84	4.335	4.377	(0.617)	526038	87.2604	87	
S 10 Dibromofluoromethane	111	6.251	6.257	(0.889)	311760	52.9155	52	
S 15 1,2-Dichloroethane-d4	102	6.640	6.648	(0.945)	74555	50.0438	50	
* 18 Fluorobenzene	96	7.019	7.028	(1.000)	1227126	50.0000		
S 47 Toluene-d8	98	8.922	8.921	(0.828)	1165303	55.1292	55	
* 57 Chlorobenzene-d5	117	10.771	10.771	(1.000)	843259	50.0000		
S 68 Bromofluorobenzene	95	12.219	12.218	(1.134)	351385	46.6654	47	
* 81 1,4-Dichlorobenzene-d4	152	13.588	13.587	(1.000)	413488	50.0000		

M3 ✓ 09/11/02

QC Flag Legend

M - Compound response manually integrated.

✓ 09/11/02

000201

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2533.D
Report Date: 10-Sep-2002 17:17

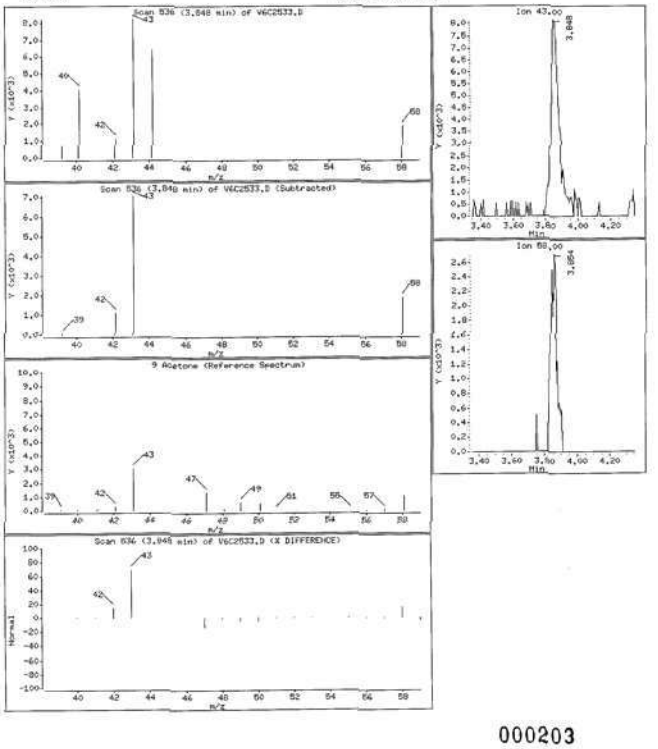
Mitkem Corporation

Method 8260 Water and Medium Soil

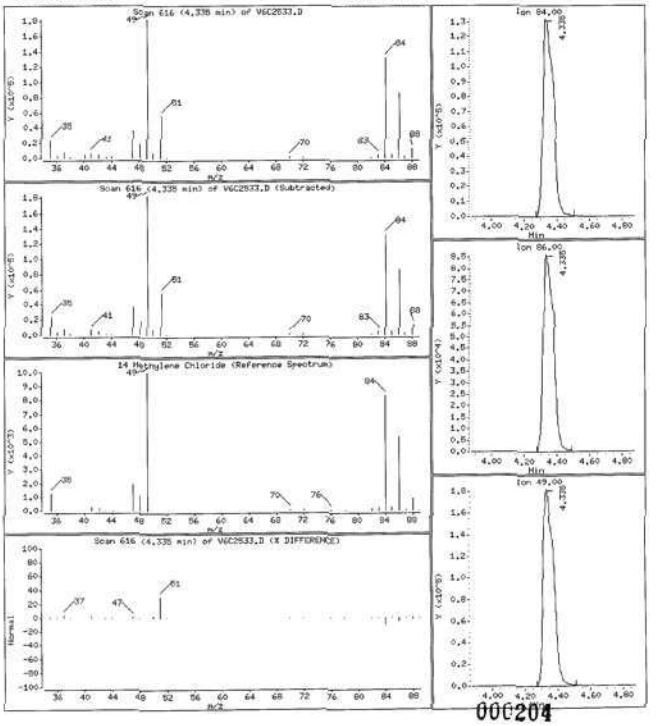
Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2533.D
Lab Smp Id: A1243-20A Client Smp ID: EMW36
Inj Date : 30-AUG-2002 22:38
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-20A,EMW36,V6B0830A,,A1243
Misc Info : 22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\v68260.m
Meth Date : 10-Sep-2002 17:16 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

000202



000203



000204

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-19D

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-03A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2496

Level: (low/med) LOW Date Received: 08/20/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	19	
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	14	
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	1	J
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	2	J
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	25	
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	3	J
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

000205

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-19D

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-03A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2496

Level: (low/med) LOW Date Received: 08/20/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000206

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-19D

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-03A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2496

Level: (low/med) LOW Date Received: 08/20/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

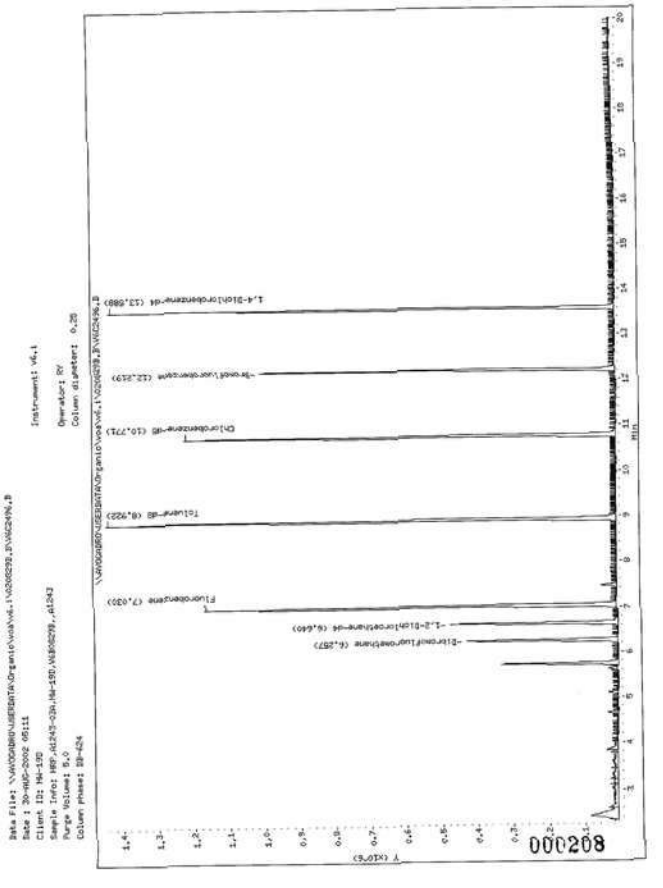
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0

000207



000208

Data File: V6C2496.D
Report Date: 10-Sep-2002 17:15

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2496.D
Lab Smp Id: A1243-03A Client Smp ID: MW-19D
Inj Date : 30-AUG-2002 05:11
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-03A,MW-19D,V6B0829B,,A1243
Misc Info : 20-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\v68260.m
Meth Date : 10-Sep-2002 17:13 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 41
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * S/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compound	QUANT SMP MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON COLUMN (ug/L)	FINAL (ug/L)
3	Vinyl Chloride	62	2.412	2.418	(0.363)	218359	19.8172	19
8	Acetone	43	3.454	3.444	(0.948)	25826	13.5414	14
16	trans-1,2-Dichloroethene	96	4.651	4.645	(0.962)	9167	1.18433	1(a)
18	1,1-Dichloroethene	61	5.098	5.093	(0.929)	15489	2.58673	3(a)
23	cis-1,2-Dichloroethene	96	5.760	5.754	(0.617)	191601	25.3081	25
8	30 Dibromofluoromethane	111	6.257	6.257	(0.896)	334913	52.3303	52
8	39 1,2 dichloroethane-d4	102	6.636	6.634	(0.944)	84940	58.6278	59
^	38 Fluorobenzene	96	7.030	7.029	(1.000)	1387408	50.0000	
	39 Trichloroethene	130	7.486	7.481	(1.061)	21852	2.64278	3(a)
8	42 Toluene-d8	98	8.988	8.991	(0.828)	1229257	54.1895	54
^	57 Chlorobenzene-d5	117	10.773	10.771	(1.000)	959249	50.3650	
8	66 Bromofluorobenzene	95	12.319	12.319	(1.134)	429610	48.3619	48
^	81 1,4-Dichlorobenzene-d4	152	11.946	11.947	(1.000)	931759	50.0000	

Yk
09/10/02

000209

Data File: V6C2496.D
Report Date: 10-Sep-2002 17:15

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

000210

Data File: V6C2496.D
Report Date: 11-Sep-2002 12:21

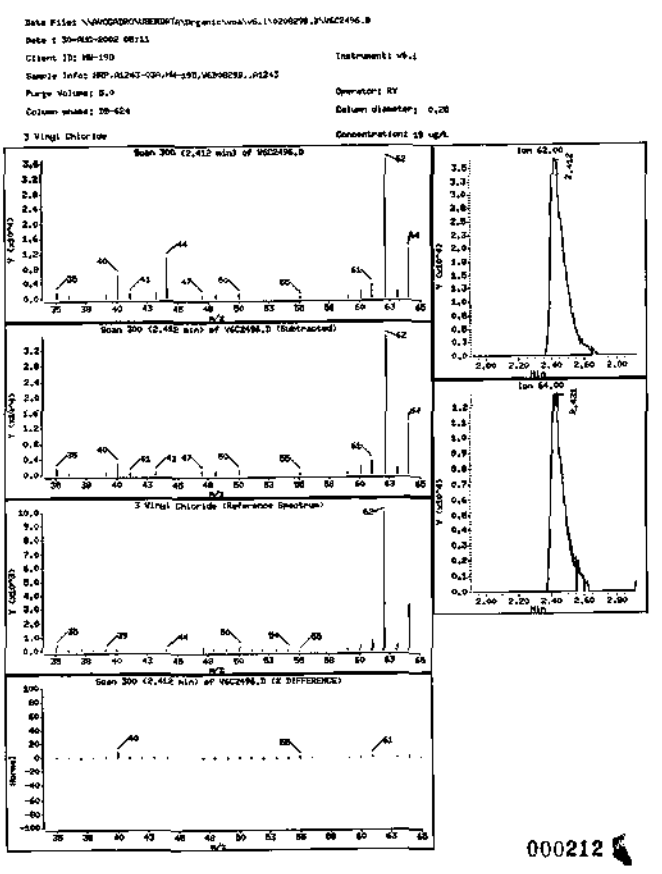
Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2496.D
Lab Smp Id: A1243-03A Client Smp ID: MW-19D
Inj Date : 30-AUG-2002 05:11
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-03A,MW-19D,V6B0829B,,A1243
Misc Info : 20-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\v68260.m
Meth Date : 10-Sep-2002 17:36 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 41
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

000211



000212

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\0200298.B\V6C2496.D

Date : 30-AUG-2002 05:11

Client ID: MW-19D

Instrument: v6.i

Sample Info: HBP,A1243-03A,MW-19D,V6B0829B,,A1243

Purge Volume: 5.0

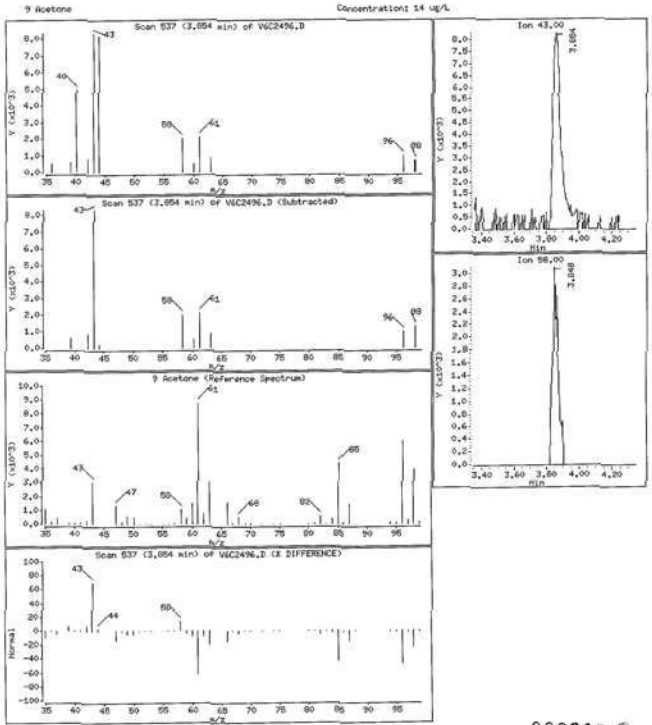
Operator: RY

Column phase: DB-624

Column diameter: 0.25

9 Acetone

Concentration: 14 ug/L



000213

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\0200298.B\V6C2496.D

Date : 30-AUG-2002 05:11

Client ID: MW-19D

Instrument: v6.i

Sample Info: HBP,A1243-03A,MW-19D,V6B0829B,,A1243

Purge Volume: 5.0

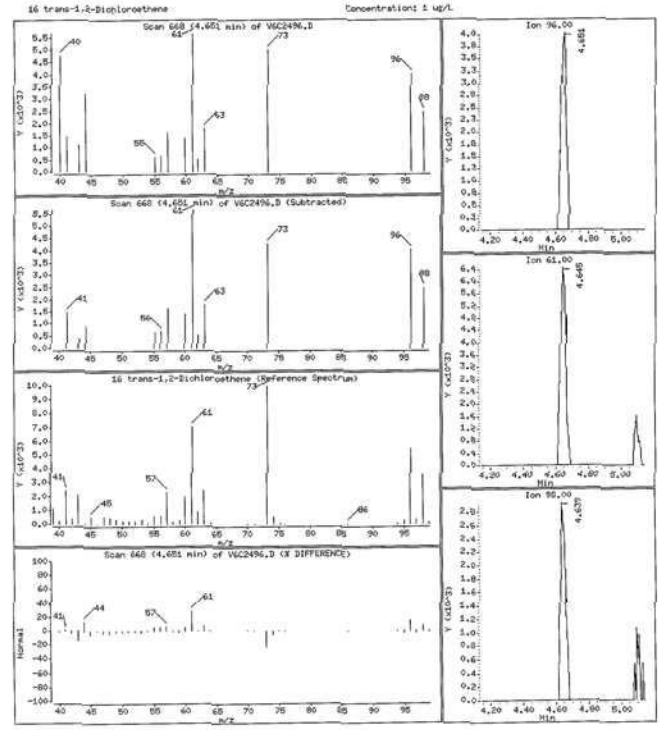
Operator: RY

Column phase: DB-624

Column diameter: 0.25

16 trans-1,2-Dichloroethene

Concentration: 1 ug/L



000214

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\0200298.B\V6C2496.D

Date : 30-AUG-2002 05:11

Client ID: MW-19D

Instrument: v6.i

Sample Info: HBP,A1243-03A,MW-19D,V6B0829B,,A1243

Purge Volume: 5.0

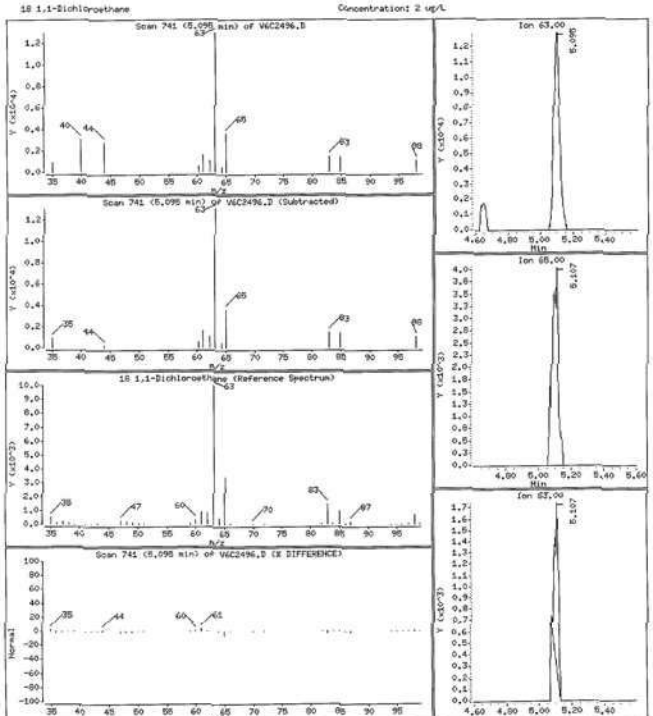
Operator: RY

Column phase: DB-624

Column diameter: 0.25

18 1,1-Dichloroethane

Concentration: 2 ug/L



000215

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\0200298.B\V6C2496.D

Date : 30-AUG-2002 05:11

Client ID: MW-19D

Instrument: v6.i

Sample Info: HBP,A1243-03A,MW-19D,V6B0829B,,A1243

Purge Volume: 5.0

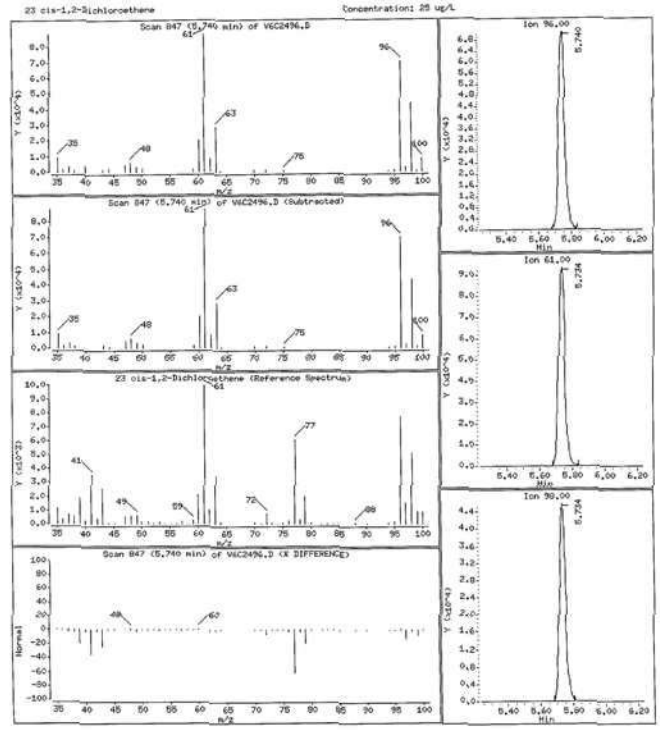
Operator: RY

Column phase: DB-624

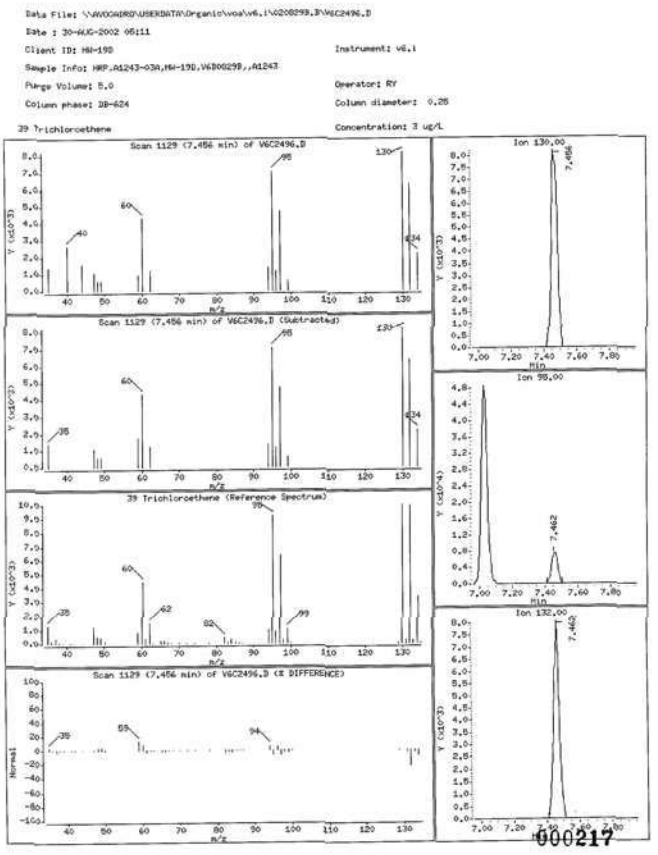
Column diameter: 0.25

23 cis-1,2-Dichloroethene

Concentration: 25 ug/L



000216



000217

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-19M

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-02A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2495

Level: (low/med) LOW Date Received: 08/20/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	48	
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	2	J
67-64-1	Acetone	14	
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	2	J
75-34-3	1,1-Dichloroethane	4	J
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	33	
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	1	J
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

000218

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-19M

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-02A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2495

Level: (low/med) LOW Date Received: 08/20/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000219

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-19M

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-02A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2495

Level: (low/med) LOW Date Received: 08/20/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

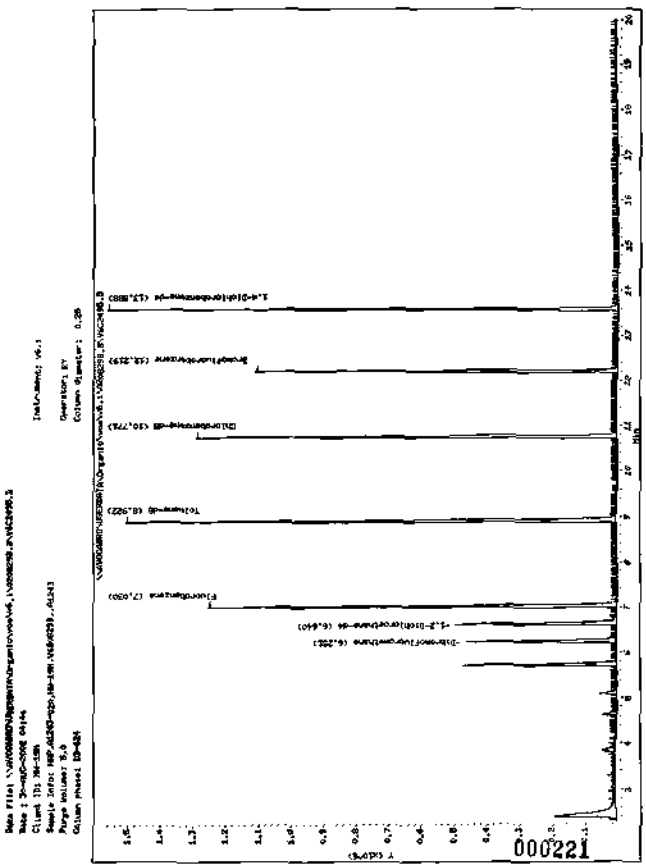
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

000220



000221

Data File: V6C2495.D
Report Date: 10-Sep-2002 17:15

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2495.D
Lab Smp Id: A1243-02A Client Smp ID: MW-19M
Inj Date : 30-AUG-2002 04:44
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-02A,MW-19M,V6B0829B,,A1243
Misc Info : 20-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\v68260.m
Meth Date : 10-Sep-2002 17:13 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 40
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON COLUMN (ug/L)	FINAL (ug/L)
3 Vinyl chloride	62	2.824	2.816	(0.169)	593751	48.4925	48
4 1,1-Dichloroethene	96	3.024	2.830	(0.544)	778056	3.90462	3 [aQ]
8 Acetone	43	3.242	2.844	(0.549)	32032	11.5846	12
17 Methyl tert-butyl ether	73	4.545	4.445	(0.661)	29952	1.44195	2 [a]
18 1,1-Dichloroethane	63	5.331	5.095	(0.926)	92122	3.72761	4 [a]
23 cis-1,2-Dichloroethene	96	9.754	9.734	(0.616)	368101	33.0877	33
# 30 Dibromofluoromethane	113	8.259	8.757	(0.893)	300547	51.3548	53
S 35 1,2-Dichloroethane-d4	102	8.640	8.636	(0.968)	94092	92.1483	92
* 38 Fluorobenzene	96	9.030	9.028	(1.000)	1486249	90.0000	
39 Trichloroethene	130	9.474	9.481	(1.063)	9015	1.03686	1 [a]
S 43 Toluene-d8	98	9.902	9.891	(0.828)	1420200	93.9594	94
* 57 Chlorobenzene-d5	117	10.771	10.771	(1.000)	1049913	98.0006	
S 66 Bromofluorobenzene	95	12.269	12.269	(1.726)	471633	90.3301	90
* 68 1,4-dichlorobenzene-d4	152	13.384	13.387	(1.000)	976698	98.0000	

09/11/02

000222

Data File: V6C2495.D
Report Date: 10-Sep-2002 17:15

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

000223

Data File: V6C2495.D
Report Date: 11-Sep-2002 12:21

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2495.D
Lab Smp Id: A1243-02A Client Smp ID: MW-19M
Inj Date : 30-AUG-2002 04:44
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-02A,MW-19M,V6B0829B,,A1243
Misc Info : 20-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\v68260.m
Meth Date : 10-Sep-2002 17:36 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 40
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

000224

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2495.D

Date : 30-AUG-2002 04:44

Client ID: MW-19H

Instrument: v6.i

Sample Info: MRP,A1243-020,MW-19H,V6B0829B,,A1243

Purge Volume: 5.0

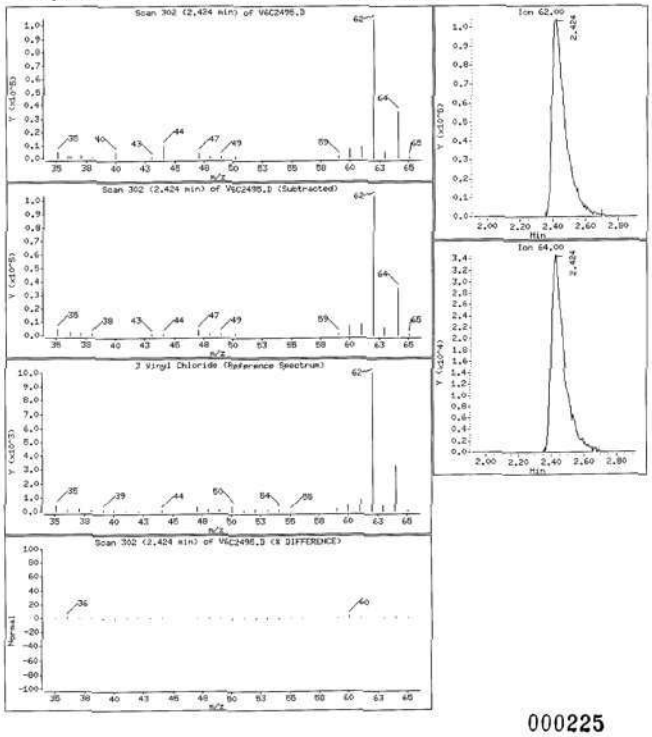
Operator: RY

Column phase: DB-624

Column diameter: 0.25

3 Vinyl Chloride

Concentration: 48 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2495.D

Date : 30-AUG-2002 04:44

Client ID: MW-19H

Instrument: v6.i

Sample Info: MRP,A1243-020,MW-19H,V6B0829B,,A1243

Purge Volume: 5.0

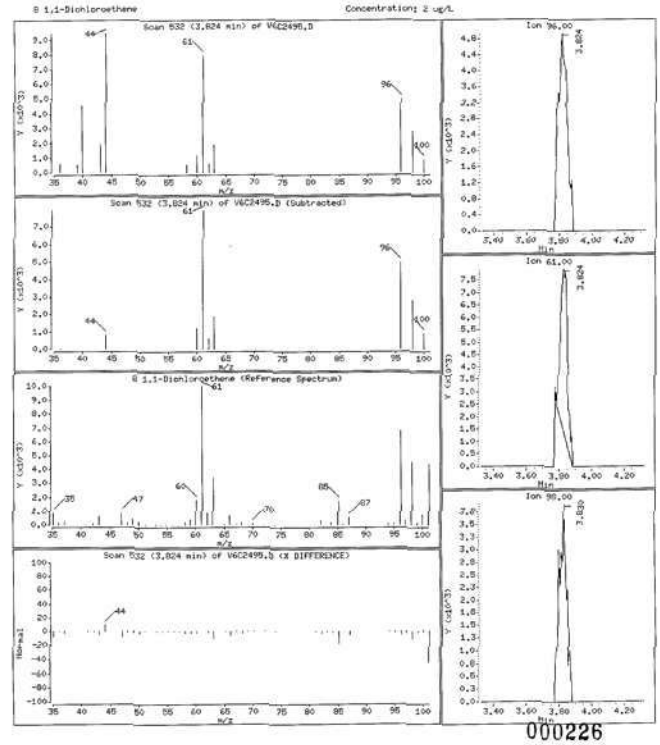
Operator: RY

Column phase: DB-624

Column diameter: 0.25

8 1,1-Dichloroethene

Concentration: 2 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2495.D

Date : 30-AUG-2002 04:44

Client ID: MW-19H

Instrument: v6.i

Sample Info: MRP,A1243-020,MW-19H,V6B0829B,,A1243

Purge Volume: 5.0

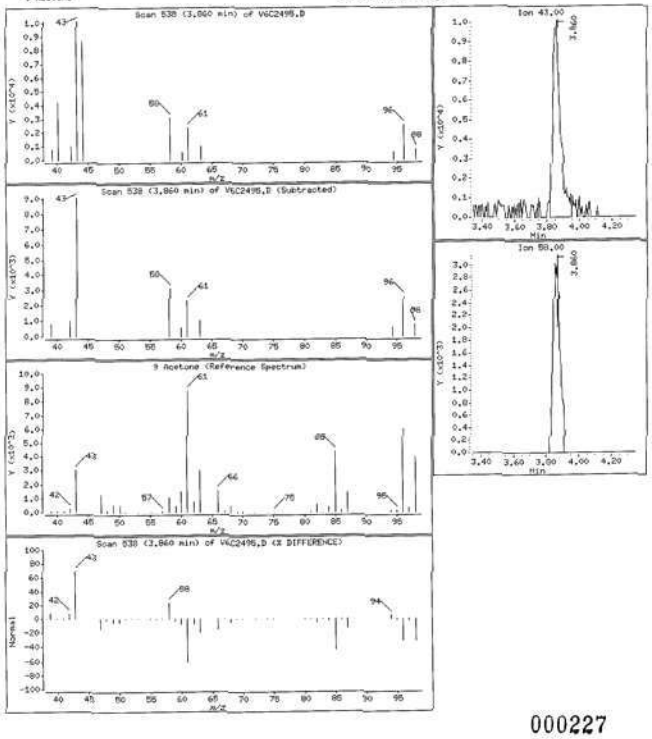
Operator: RY

Column phase: DB-624

Column diameter: 0.25

9 Acetone

Concentration: 14 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2495.D

Date : 30-AUG-2002 04:44

Client ID: MW-19H

Instrument: v6.i

Sample Info: MRP,A1243-020,MW-19H,V6B0829B,,A1243

Purge Volume: 5.0

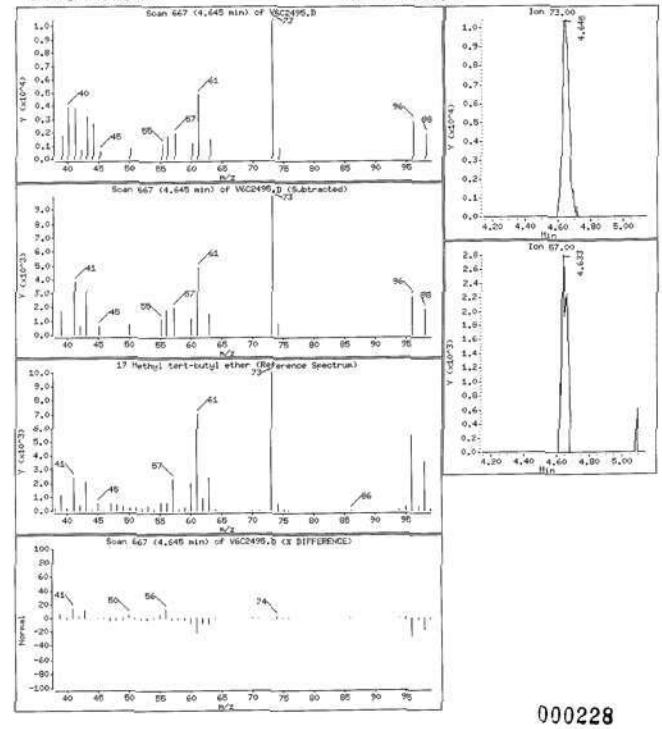
Operator: RY

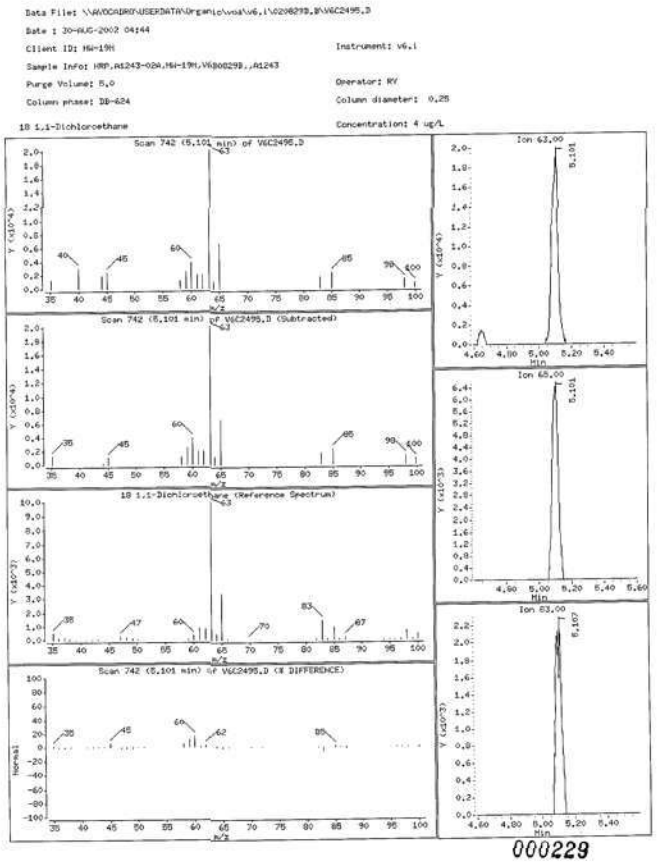
Column phase: DB-624

Column diameter: 0.25

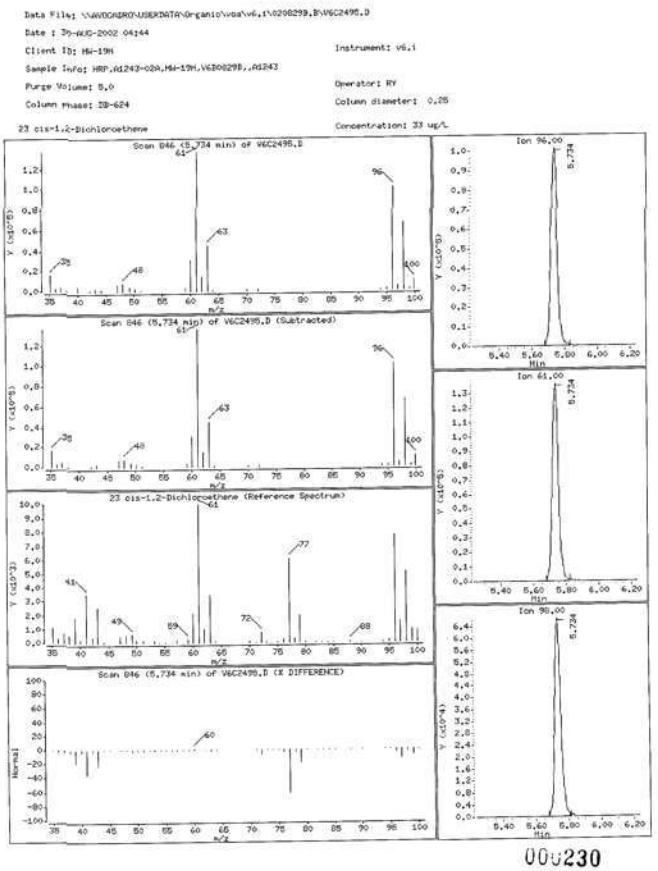
17 Methyl tert-butyl ether

Concentration: 2 ug/L

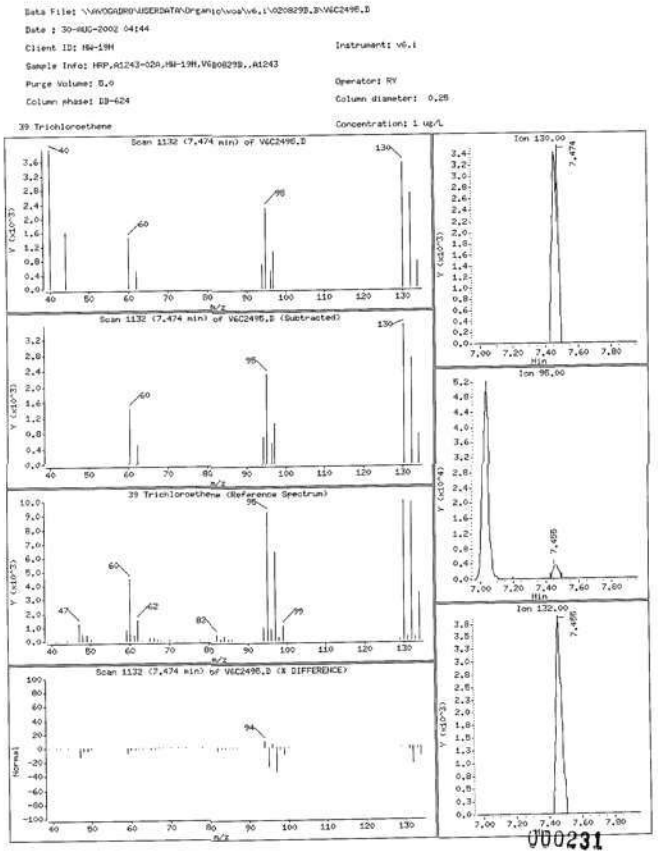




000229



000230



000231

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-28

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-12A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2517

Level: (low/med) LOW Date Received: 08/21/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	2	J
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	1	J
67-64-1	Acetone	5	
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	6	
75-34-3	1,1-Dichloroethane	6	
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	3	J
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

000232

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-28

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-12A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2517

Level: (low/med) LOW Date Received: 08/21/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) Ug/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000233

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-28

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-12A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2517

Level: (low/med) LOW Date Received: 08/21/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

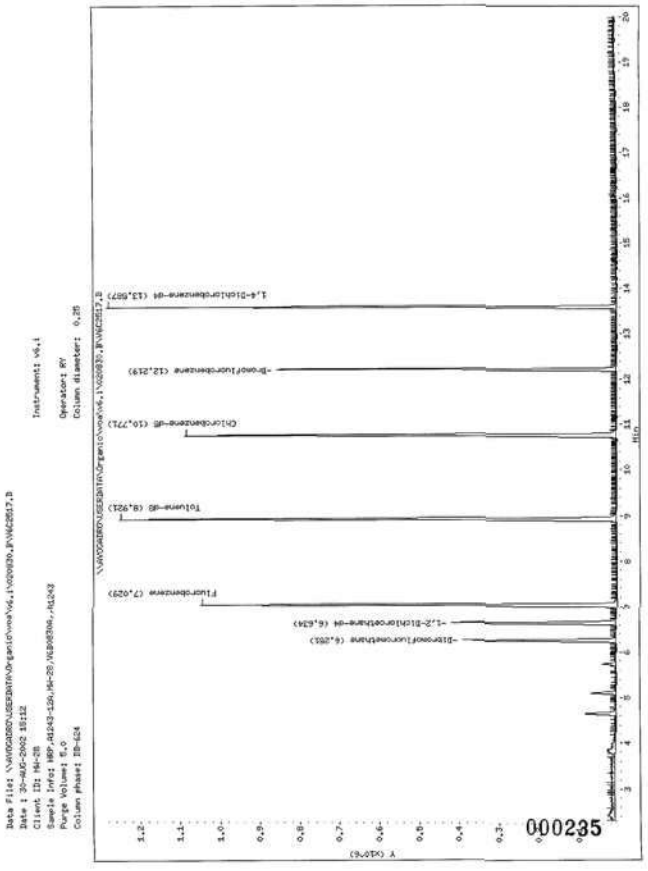
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

000234



000235

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2517.D
Report Date: 10-Sep-2002 17:17

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2517.D
Lab Smp Id: A1243-12A Client Smp ID: MW-28
Inj Date : 30-AUG-2002 15:12
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-12A,MW-28,V6B0830A,,A1243
Misc Info : 21-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\v68260.m
Meth Date : 10-Sep-2002 17:16 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)	
3 Vinyl Chloride	62	2.418	2.412	(0.346)	25485	2.52514	2(a)	
8 1,1-Dichloroethene	96	3.842	3.836	(0.546)	9843	1.19378	1(aQ)	
9 Acetone	43	3.842	3.848	(0.546)	9306	4.79011	5(QM)	MB Yn 09/13/02
17 Methyl tert-butyl ether	73	4.645	4.651	(0.651)	84363	5.82204	6	
18 1,1-Dichloroethane	63	5.095	5.095	(0.725)	74517	6.46571	6	
23 cis-1,2-Dichloroethene	96	5.734	5.734	(0.816)	18985	2.84027	3(a)	
S 30 Dibromofluoromethane	113	6.257	6.257	(0.890)	311408	51.9659	52	
S 35 1,2-Dichloroethane-d4	102	6.640	6.640	(0.945)	70666	52.5380	52	
* 38 Fluorobenzene	96	7.029	7.029	(1.000)	1224945	50.0000		
S 47 Toluene-d8	98	8.921	8.921	(0.828)	1165980	54.5657	54	
* 57 Chlorobenzene-d5	117	10.771	10.771	(1.000)	852316	50.0000		
S 68 Bromofluorobenzene	95	12.219	12.218	(1.134)	365633	48.0416	48	
* 81 1,4-Dichlorobenzene-d4	152	13.587	13.587	(1.000)	469731	50.0000		

Yn 09/12/02

000236

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2517.D
Report Date: 10-Sep-2002 17:17

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

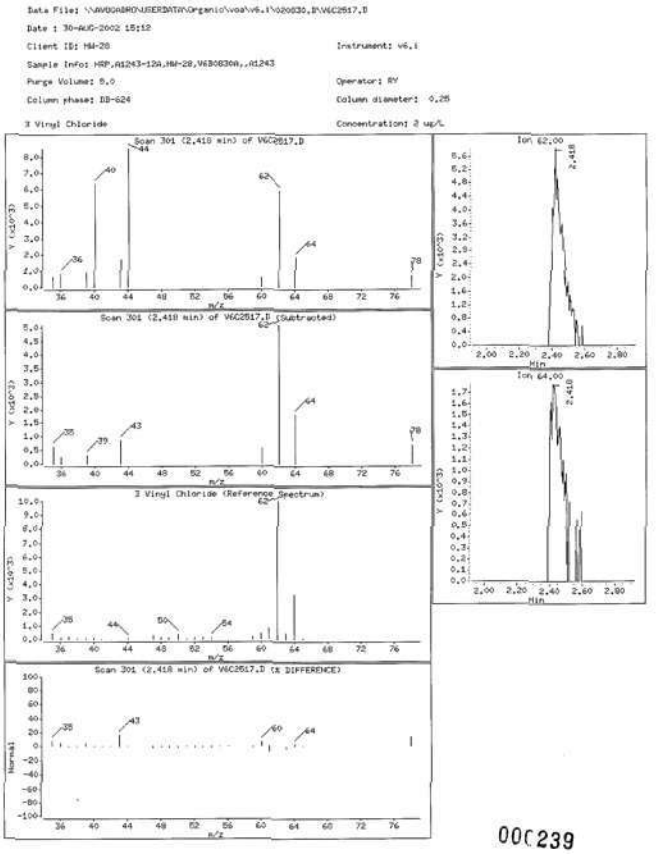
Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2517.D
Report Date: 10-Sep-2002 17:17

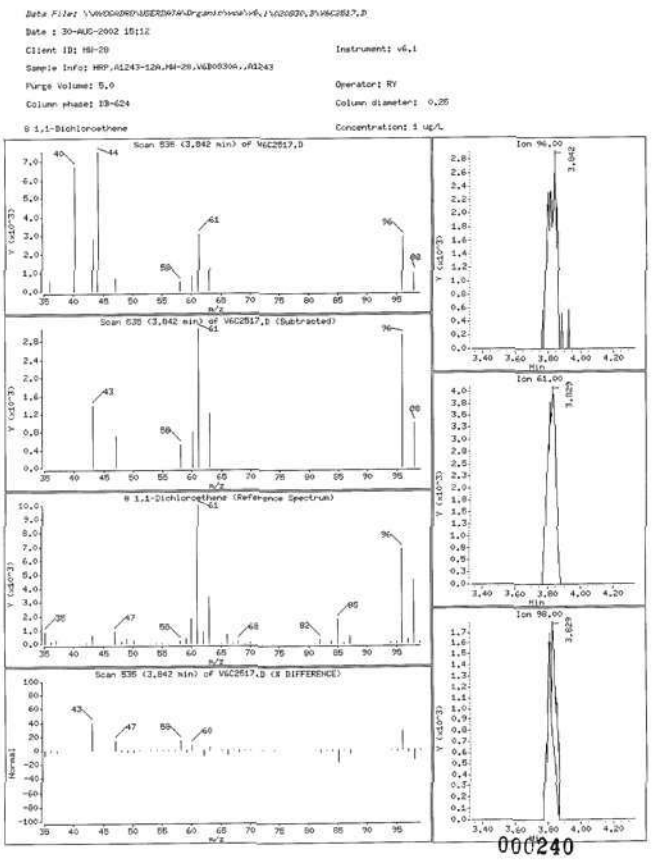
Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2517.D
Lab Smp Id: A1243-12A Client Smp ID: MW-28
Inj Date : 30-AUG-2002 15:12
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-12A,MW-28,V6B0830A,,A1243
Misc Info : 21-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V68260.m
Meth Date : 10-Sep-2002 17:16 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -





Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2617.D

Date : 30-AUG-2002 15:12

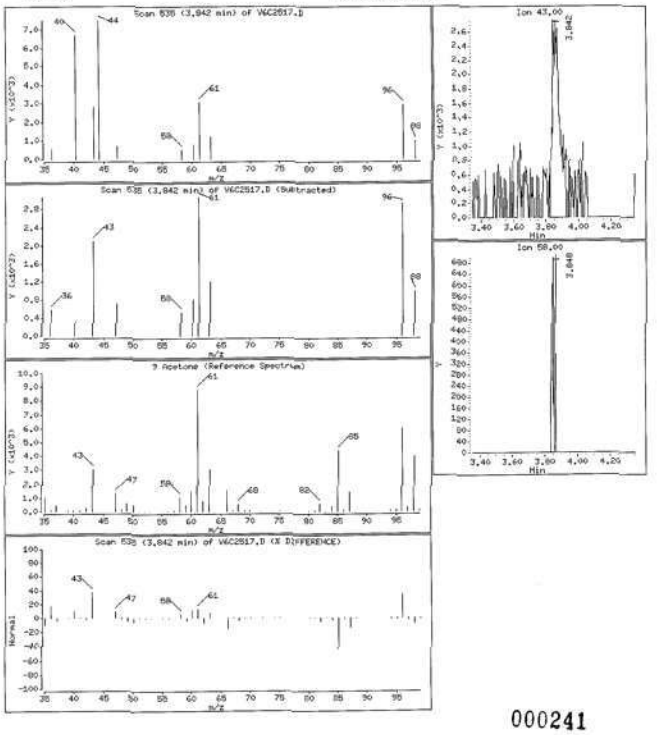
Client ID: MW-28 Instrument: v6.i

Sample Info: HRP,A1243-12R,MW-28,V6B0830A,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

9 Acetone Concentration: 5 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2617.D

Date : 30-AUG-2002 15:12

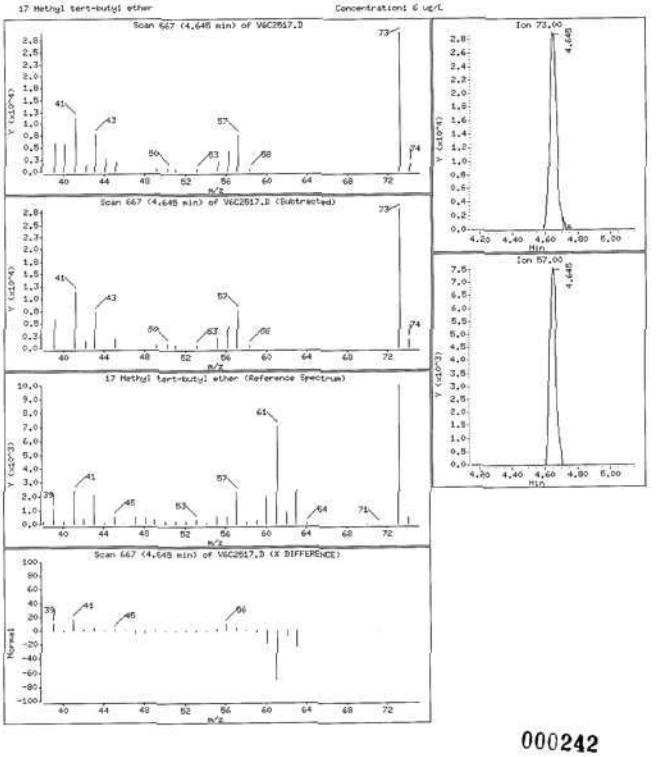
Client ID: MW-28 Instrument: v6.i

Sample Info: MRP,A1243-12R,MW-28,V6B0830A,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

17 Methyl tert-butyl ether Concentration: 6 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2617.D

Date : 30-AUG-2002 15:12

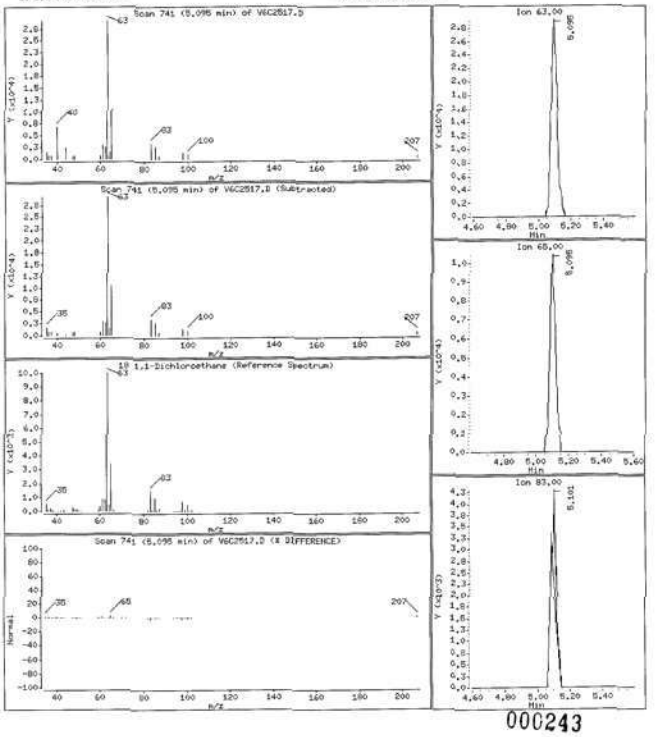
Client ID: MW-28 Instrument: v6.i

Sample Info: MRP,A1243-12R,MW-28,V6B0830A,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

18 1,1-Dichloroethane Concentration: 6 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2617.D

Date : 30-AUG-2002 15:12

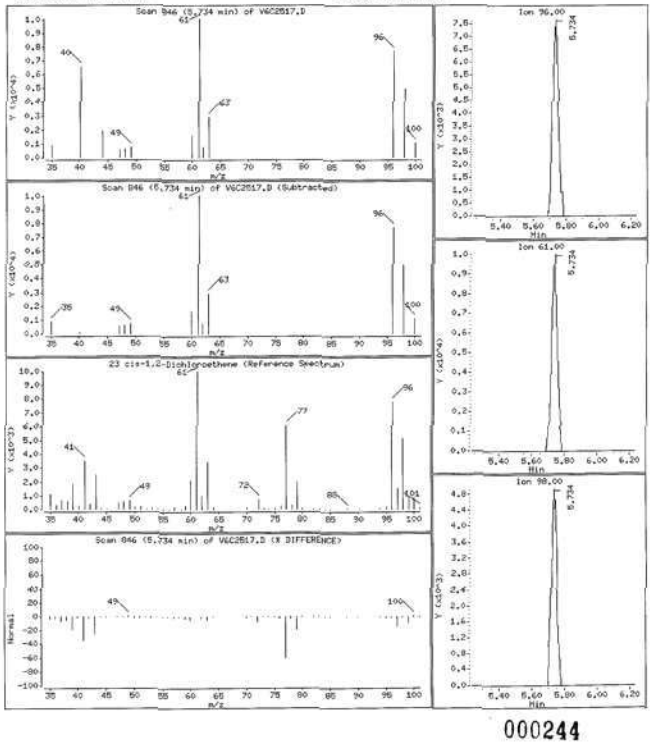
Client ID: MW-28 Instrument: v6.i

Sample Info: MRP,A1243-12R,MW-28,V6B0830A,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

23 cis-1,2-Dichloroethene Concentration: 3 ug/L



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-34

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-04A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2497
Level: (low/med) LOW Date Received: 08/20/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	300	E
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	4	J
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	96	
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

000245

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-34

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-04A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2497
Level: (low/med) LOW Date Received: 08/20/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000246

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-34

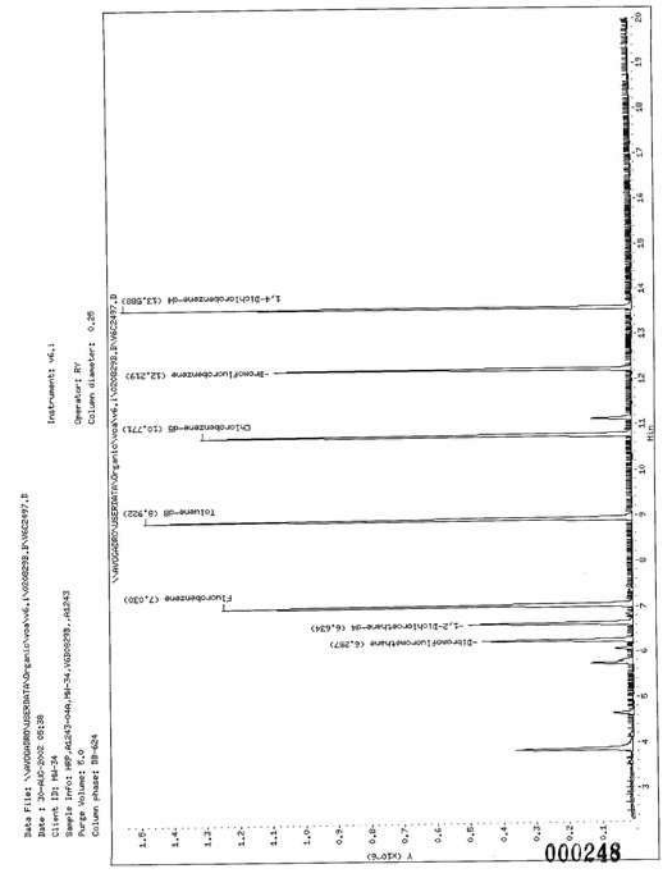
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-04A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2497
Level: (low/med) LOW Date Received: 08/20/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	11.13	6	J
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

000247



000248

Data File: V6C2497.D
Report Date: 10-Sep-2002 17:15

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2497.D
Lab Smp Id: A1243-04A Client Smp ID: MW-34
Inj Date : 30-AUG-2002 05:38
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-04A,MW-34,V6B0829B,,A1243
Misc Info : 20-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\v68260.m
Meth Date : 10-Sep-2002 17:13 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D✓
Als bottle: 42
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
9 Acetone	43	3.848	3.848	(0.547)	722126	304.976	300(A)
17 Methyl tert-butyl ether	73	4.651	4.645	(0.662)	66278	3.66603	4(a)
22 2-Butanone	43	5.734	5.734	(0.816)	297376	96.5040	96
$ 30 Dibromofluoromethane	113	6.257	6.257	(0.890)	376593	51.5633	52
$ 35 1,2-Dichloroethane-d4	102	6.641	6.634	(0.945)	90236	49.7858	50
* 38 Fluorobenzene	96	7.030	7.029	(1.000)	1492921	50.0000	
$ 47 Toluene-d8	98	8.922	8.921	(0.830)	1396052	52.9881	53
* 57 Chlorobenzene-d5	117	10.771	10.771	(1.000)	1050864	50.0000	
$ 68 Bromofluorobenzene	95	12.219	12.219	(1.134)	464569	49.5081	50
* 81 1,4-Dichlorobenzene-d4	152	13.588	13.587	(1.000)	563243	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

09/10/02

000249

Data File: V6C2497.D
Report Date: 11-Sep-2002 12:22

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2497.D
Lab Smp Id: A1243-04A Client Smp ID: MW-34
Inj Date : 30-AUG-2002 05:38
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-04A,MW-34,V6B0829B,,A1243
Misc Info : 20-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\v68260.m
Meth Date : 10-Sep-2002 17:36 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 42
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

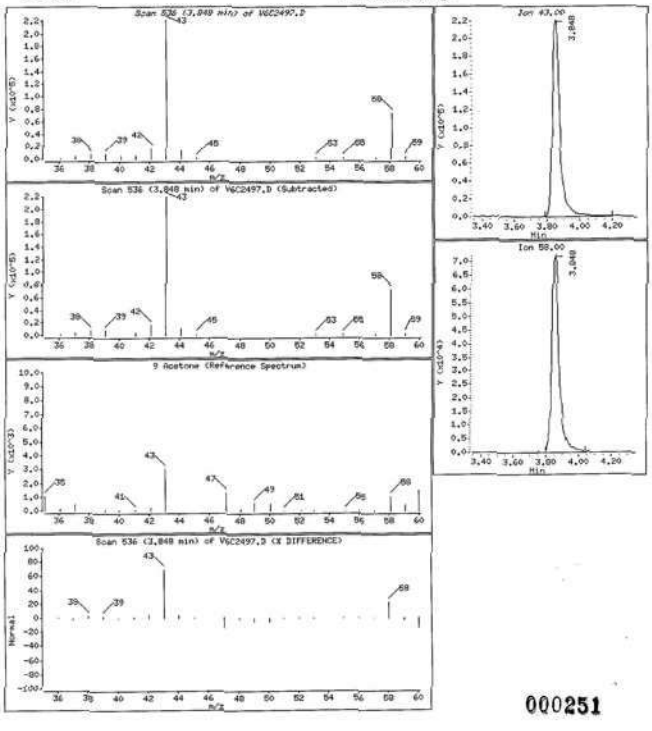
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

ISTD	RT	AREA	AMOUNT
* 57 Chlorobenzene-d5	10.771	3196642	50.000

RT	AREA	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug/L)	QUANT QUAL	LIBRARY	LIB ENTRY	CONC R
Unknown			CAS #:				
11.110	358721	5.61090357	6	C		0	57

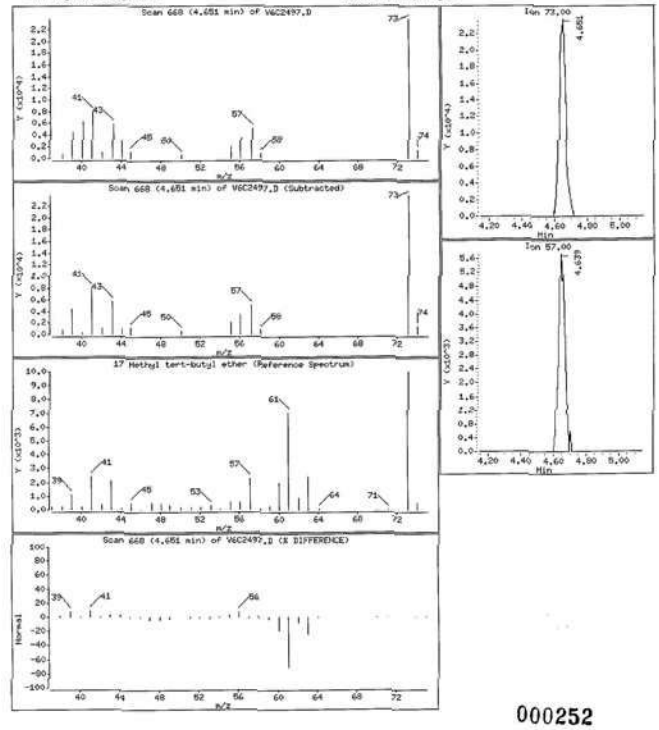
000250

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2497.D
Date : 30-AUG-2002 05:38
Client ID: MW-34 Instrument: v6.i
Sample Info: HRP,A1243-04A,MW-34,V6B0829B,,A1243
Purge Volume: 5.0 Operator: RY
Column phase: DB-624 Column diameter: 0.25
9 Acetone Concentration: 300 ug/L



000251

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2497.D
Date : 30-AUG-2002 05:38
Client ID: MW-34 Instrument: v6.i
Sample Info: HRP,A1243-04A,MW-34,V6B0829B,,A1243
Purge Volume: 5.0 Operator: RY
Column phase: DB-624 Column diameter: 0.25
17 Methyl tert-butyl ether Concentration: 4 ug/L



000252

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2497.D

Date : 30-AUG-2002 05:38

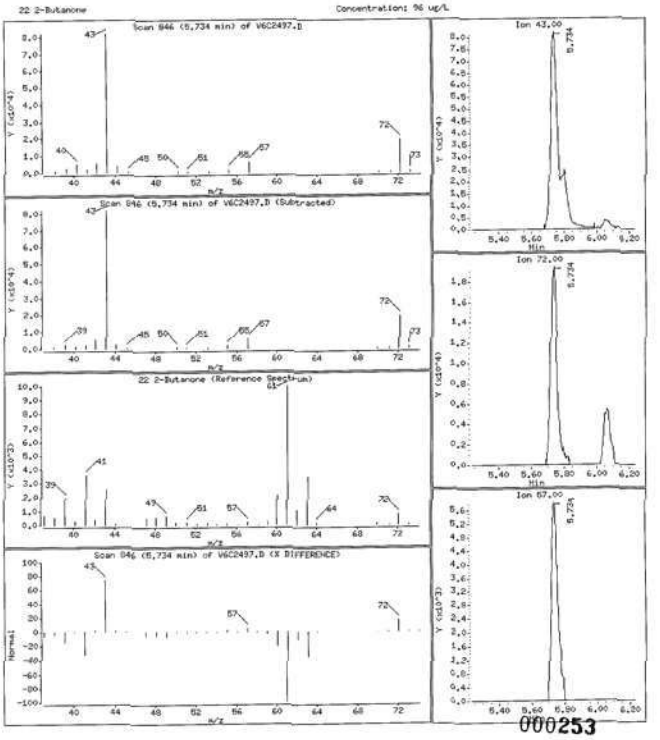
Client ID: MW-34 Instrument: v6.i

Sample Info: MRP,A1243-04A,MW-34,VE30829B,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

22 2-Butanone Concentration: 96 ug/L



000253

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2497.D

Date : 30-AUG-2002 05:38

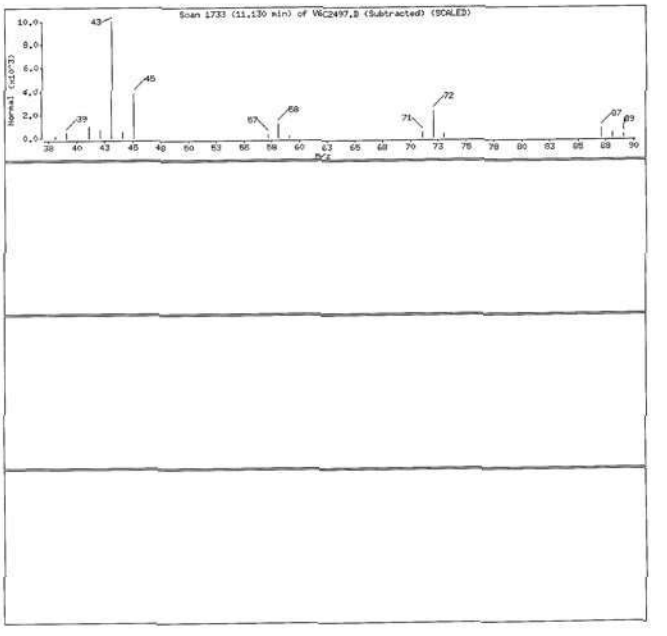
Client ID: MW-34 Instrument: v6.i

Sample Info: MRP,A1243-04A,MW-34,VE30829B,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



000254

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-34DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-04ADL

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2527

Level: (low/med) LOW Date Received: 08/20/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.5

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
67-64-1	Acetone	360	D
75-09-2	Methylene Chloride	12	U
107-13-1	Acrylonitrile	12	U
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	Methyl tert-butyl ether	3	DJ
75-34-3	1,1-Dichloroethane	12	U
78-93-3	2-Butanone	92	D
156-59-2	cis-1,2-Dichloroethene	12	U
590-20-7	2,2-Dichloropropane	12	U
74-97-5	Bromochloromethane	12	U
67-66-3	Chloroform	12	U
109-99-9	Tetrahydrofuran	12	U
71-55-6	1,1,1-Trichloroethane	12	U
563-58-6	1,1-Dichloropropene	12	U
56-23-5	Carbon Tetrachloride	12	U
107-06-2	1,2-Dichloroethane	12	U
71-43-2	Benzene	12	U
79-01-6	Trichloroethene	12	U
78-87-5	1,2-Dichloropropane	12	U
74-95-3	Dibromomethane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-pentanone	12	U
108-88-3	Toluene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U

FORM I VOA OLM03.0

000255

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-34DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-04ADL

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2527

Level: (low/med) LOW Date Received: 08/20/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.5

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
630-20-6	1,1,1,2-Tetrachloroethane	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (Total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-86-1	Bromobenzene	12	U
96-18-4	1,2,3-Trichloropropane	12	U
103-65-1	n-Propylbenzene	12	U
95-49-8	2-Chlorotoluene	12	U
108-67-8	1,3,5-Trimethylbenzene	12	U
106-43-4	4-Chlorotoluene	12	U
98-06-6	tert-Butylbenzene	12	U
95-63-6	1,2,4-Trimethylbenzene	12	U
135-98-8	sec-Butylbenzene	12	U
99-87-6	4-Isopropyltoluene	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
104-51-8	n-Butylbenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U
87-68-3	Hexachlorobutadiene	12	U
91-20-3	Naphthalene	12	U
87-61-6	1,2,3-Trichlorobenzene	12	U
544-10-5	1-Chlorohexane	12	U

FORM I VOA OLM03.0

000256

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-34DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-04ADL

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2527

Level: (low/med) LOW Date Received: 08/20/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.5

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

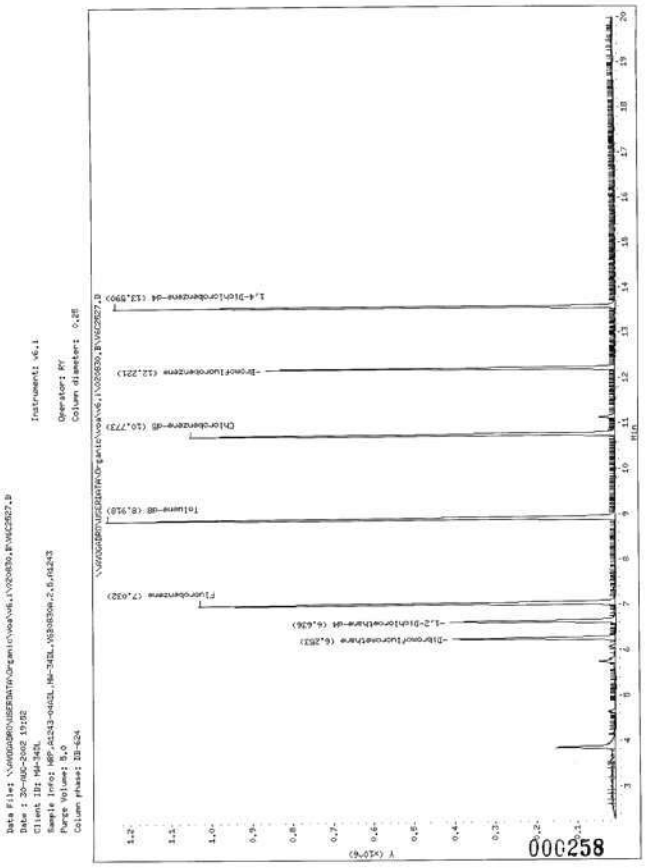
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

000257



000258

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2527.D
Report Date: 13-Sep-2002 12:13

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2527.D
Lab Smp Id: A1243-04ADL Client Smp ID: MW-34DL
Inj Date : 30-AUG-2002 19:52
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-04ADL,MW-34DL,V6B0830A,2.5,A1243
Misc Info : 20-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\v68260.m
Meth Date : 10-Sep-2002 17:16 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D ✓
Als bottle: 8
Dil Factor: 2.50000
Integrator: HP RTE Compound Sublist: HRP.sub ✓
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	2.500	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
9 Acetone	43	3.850	3.848	(0.548)	270510	142.101	360	
17 Methyl tert-butyl ether	73	4.647	4.651	(0.661)	18387	1.26680	3	(a)
22 2-Butanone	43	5.742	5.734	(0.817)	90598	36.8209	92	
$ 30 Dibromofluoromethane	113	6.253	6.257	(0.889)	309864	52.8458	53	
$ 35 1,2-Dichloroethane-d4	102	6.636	6.640	(0.944)	74444	51.1596	51	
* 38 Fluorobenzene	96	7.032	7.029	(1.000)	1198576	50.0000		
$ 47 Toluene-d8	98	8.918	8.921	(0.828)	1149015	55.3087	55	
* 57 Chlorobenzene-d5	117	10.773	10.771	(1.000)	828632	50.0000		
$ 68 Bromofluorobenzene	95	12.221	12.218	(1.134)	360541	48.7265	49	
* 81 1,4-Dichlorobenzene-d4	152	13.590	13.587	(1.000)	436196	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

YL 09/13/02

000259

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2527.D
Report Date: 10-Sep-2002 17:17

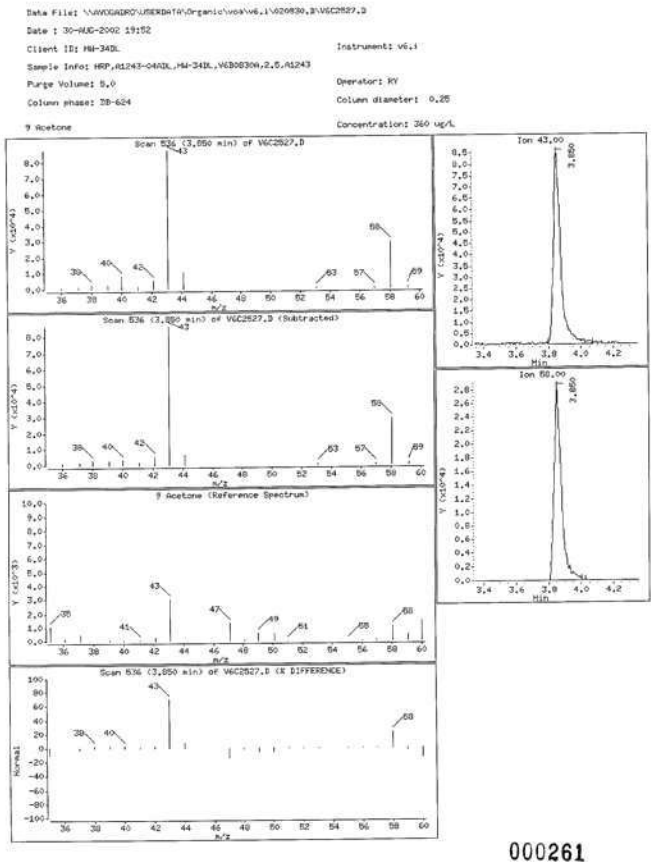
Mitkem Corporation

Method 8260 Water and Medium Soil

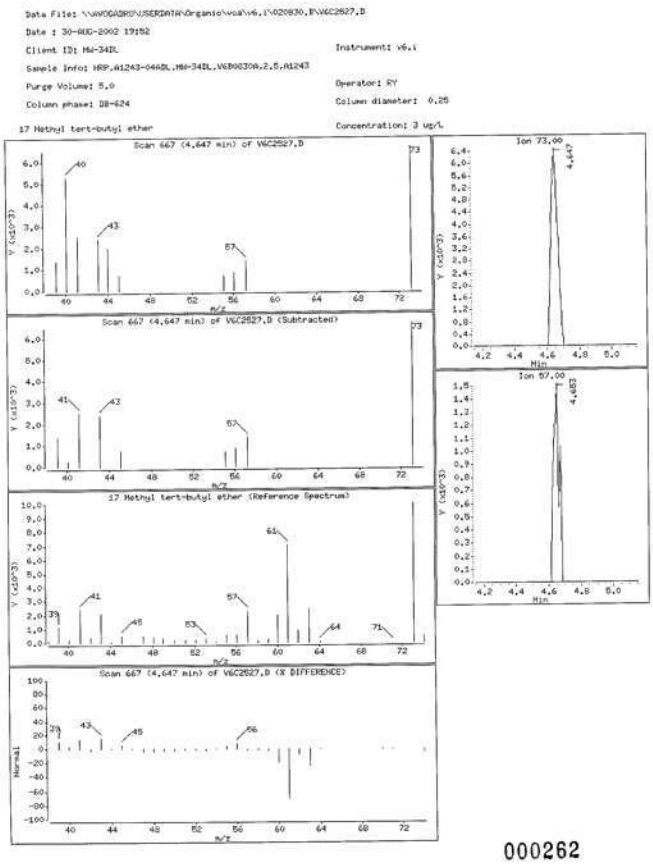
Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2527.D
Lab Smp Id: A1243-04ADL Client Smp ID: MW-34DL
Inj Date : 30-AUG-2002 19:52
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-04ADL,MW-34DL,V6B0830A,2.5,A1243
Misc Info : 20-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\v68260.m
Meth Date : 10-Sep-2002 17:16 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 8
Dil Factor: 2.50000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

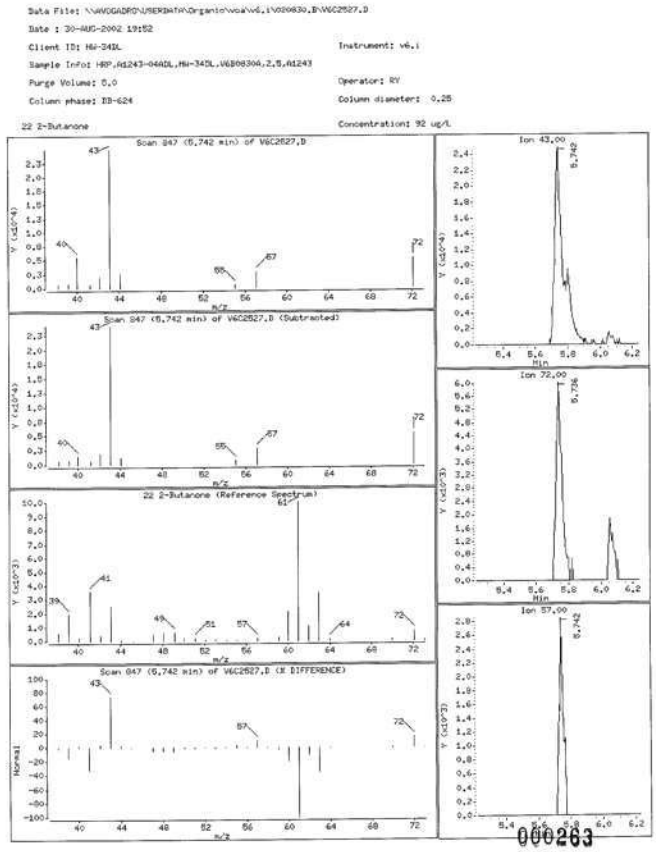
000260



000261



000262



000263

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-35

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-11E
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2501
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	350	E
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	3	J
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	110	
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

000264

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-35

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-11E

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2501

Level: (low/med) LOW Date Received: 08/21/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000265

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-35

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-11E

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2501

Level: (low/med) LOW Date Received: 08/21/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

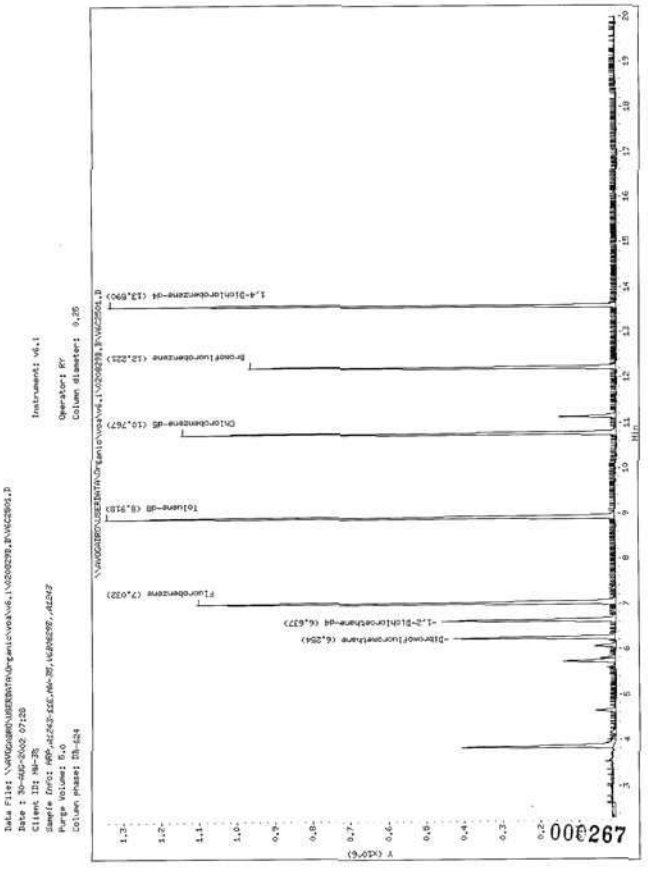
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	11.13	7	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0

000266



000267

Data File: V6C2501.D
Report Date: 10-Sep-2002 17:15

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2501.D
Lab Smp Id: A1243-11E Client Smp ID: MW-35
Inj Date : 30-AUG-2002 07:28
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-11E,MW-35,V6B0829B,,A1243
Misc Info : 21-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\v68260.m
Meth Date : 10-Sep-2002 17:13 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 46
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
9 Acetone	43	3.851	3.848	(0.548)	745397	354.092	350(A)
17 Methyl tert-butyl ether	73	4.654	4.645	(0.662)	54045	1.36247	3(a)
22 2-Butanone	43	5.736	5.734	(0.816)	291071	106.246	110
$ 30 Dibromofluoromethane	113	6.253	6.257	(0.889)	341437	52.5841	52
$ 35 1,2-Dichloroethane-d4	102	6.637	6.634	(0.944)	83886	52.0584	52
* 36 Fluorobenzene	96	7.032	7.029	(1.000)	1329279	50.0000	
$ 47 Toluene-d8	98	8.918	8.921	(0.028)	1261366	54.7173	55
* 57 Chlorobenzene-d5	117	10.767	10.771	(1.000)	919487	50.0000	
$ 68 Bromofluorobenzene	95	12.221	12.219	(1.135)	414405	50.4721	50
* 81 1,4-Dichlorobenzene-d4	152	13.890	13.887	(1.000)	491347	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

YL
09/10/02

000268

Data File: V6C2501.D
Report Date: 11-Sep-2002 12:23

Mitkem Corporation

Method 8260 Water and Medium Soil

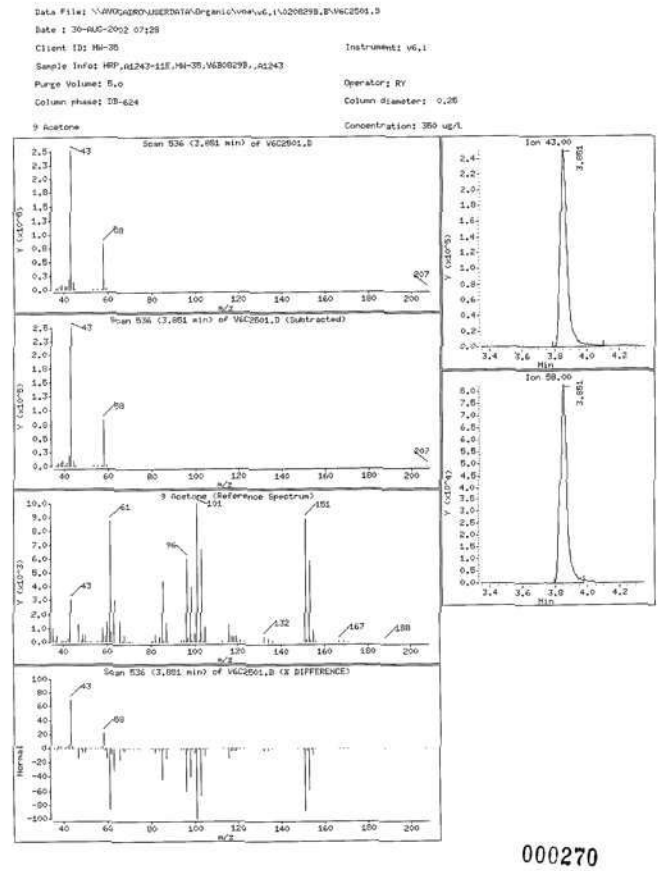
Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2501.D
Lab Smp Id: A1243-11E Client Smp ID: MW-35
Inj Date : 30-AUG-2002 07:28
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-11E,MW-35,V6B0829B,,A1243
Misc Info : 21-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\v68260.m
Meth Date : 10-Sep-2002 17:36 mcl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 46
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

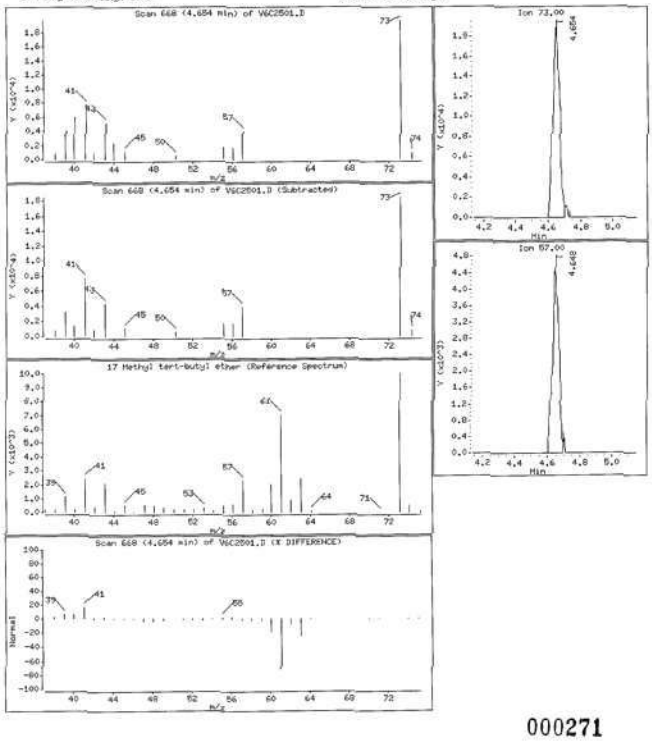
Concentration Formula: Amt * DF * Uf * 5/Vo

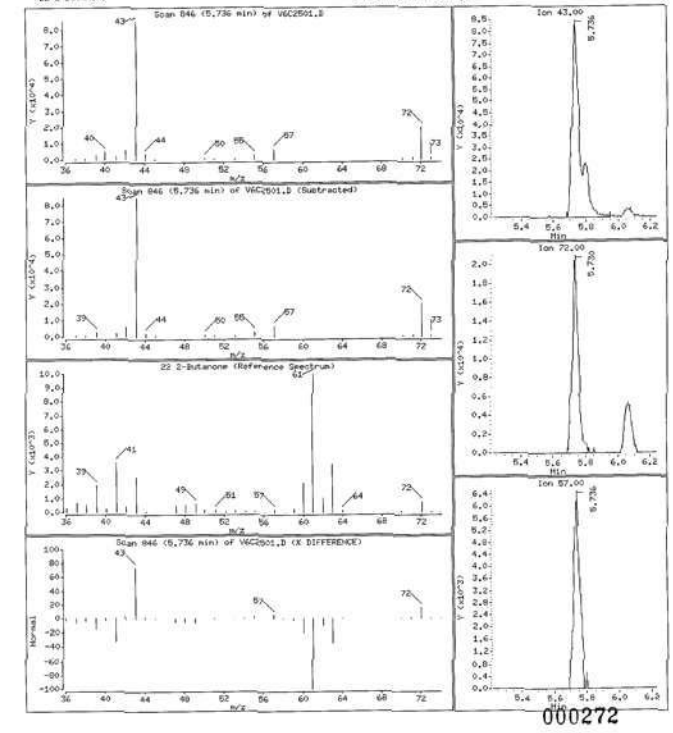
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

ISTD	RT	AREA	AMOUNT
* 57 Chlorobenzene-d5	10.767	2824829	50.000

RT	AREA	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CAS #
Unknown			CAS #:				
11.132	455925	7.16195005	7	0		0	57







Data File: \\AVGOADRO\USERDATA\Organic\voa\v6.i\0208298.B\V6C2501.D

Date : 30-AUG-2002 07:28

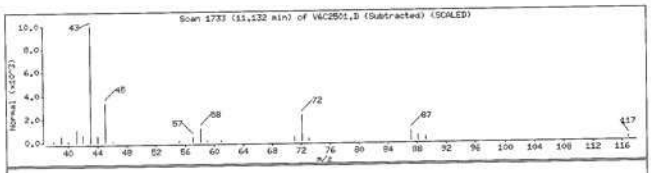
Client ID: HA-35 Instrument: v6.i

Sample Info: HRP,A1243-11E,HA-35,VEB08298,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Hatch	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-35DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-11EDL

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2529

Level: (low/med) LOW Date Received: 08/21/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 3.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	15	U
74-87-3	Chloromethane	15	U
75-01-4	Vinyl Chloride	15	U
74-83-9	Bromomethane	15	U
75-00-3	Chloroethane	15	U
75-69-4	Trichlorofluoromethane	15	U
75-35-4	1,1-Dichloroethene	15	U
67-64-1	Acetone	360	D
75-09-2	Methylene Chloride	15	U
107-13-1	Acrylonitrile	15	U
156-60-5	trans-1,2-Dichloroethene	15	U
1634-04-4	Methyl tert-butyl ether	15	U
75-34-3	1,1-Dichloroethane	15	U
78-93-3	2-Butanone	85	D
156-59-2	cis-1,2-Dichloroethene	15	U
590-20-7	2,2-Dichloropropane	15	U
74-97-5	Bromochloromethane	15	U
67-66-3	Chloroform	15	U
109-99-9	Tetrahydrofuran	15	U
71-55-6	1,1,1-Trichloroethane	15	U
563-58-6	1,1-Dichloropropene	15	U
56-23-5	Carbon Tetrachloride	15	U
107-06-2	1,2-Dichloroethane	15	U
71-43-2	Benzene	15	U
79-01-6	Trichloroethene	15	U
78-87-5	1,2-Dichloropropane	15	U
74-95-3	Dibromomethane	15	U
75-27-4	Bromodichloromethane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
108-10-1	4-Methyl-2-pentanone	15	U
108-88-3	Toluene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
79-00-5	1,1,2-Trichloroethane	15	U
127-18-4	Tetrachloroethene	15	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-35DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-11EDL

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2529

Level: (low/med) LOW Date Received: 08/21/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 3.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	15	U
124-48-1	Dibromochloromethane	15	U
106-93-4	1,2-Dibromoethane	15	U
108-90-7	Chlorobenzene	15	U
630-20-6	1,1,1,2-Tetrachloroethane	15	U
100-41-4	Ethylbenzene	15	U
1330-20-7	Xylene (Total)	15	U
100-42-5	Styrene	15	U
75-25-2	Bromoform	15	U
98-82-8	Isopropylbenzene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
108-86-1	Bromobenzene	15	U
96-18-4	1,2,3-Trichloropropane	15	U
103-65-1	n-Propylbenzene	15	U
95-49-8	2-Chlorotoluene	15	U
108-67-8	1,3,5-Trimethylbenzene	15	U
106-43-4	4-Chlorotoluene	15	U
98-06-6	tert-Butylbenzene	15	U
95-63-6	1,2,4-Trimethylbenzene	15	U
135-98-8	sec-Butylbenzene	15	U
99-87-6	4-Isopropyltoluene	15	U
541-73-1	1,3-Dichlorobenzene	15	U
106-46-7	1,4-Dichlorobenzene	15	U
104-51-8	n-Butylbenzene	15	U
95-50-1	1,2-Dichlorobenzene	15	U
96-12-8	1,2-Dibromo-3-chloropropane	15	U
120-82-1	1,2,4-Trichlorobenzene	15	U
87-68-3	Hexachlorobutadiene	15	U
91-20-3	Naphthalene	15	U
87-61-6	1,2,3-Trichlorobenzene	15	U
544-10-5	1-Chlorohexane	15	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-35DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-11EDL

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2529

Level: (low/med) LOW Date Received: 08/21/02

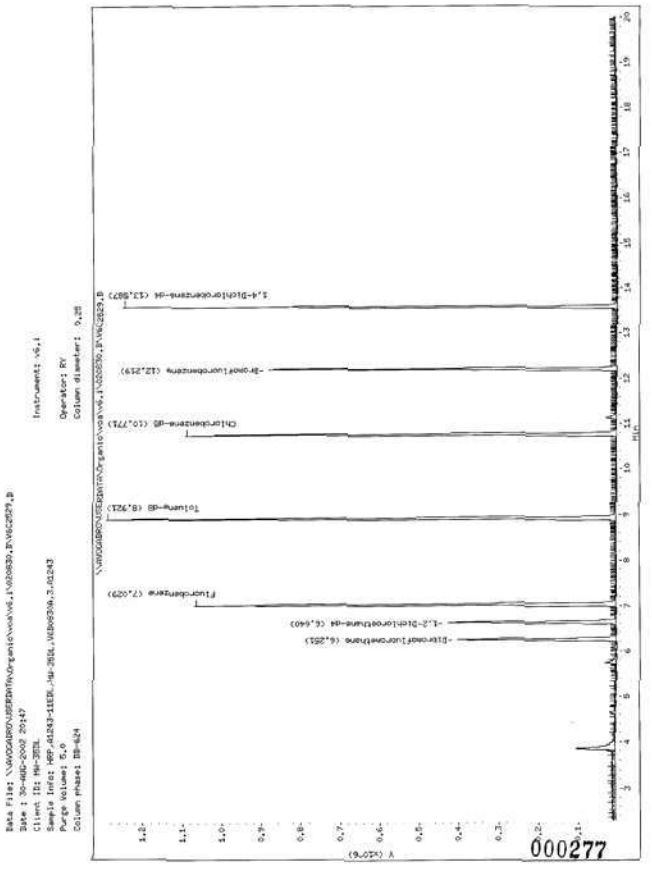
% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 3.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				



000277

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2529.D
Report Date: 13-Sep-2002 12:29

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2529.D
Lab Smp Id: A1243-11EDL Client Smp ID: MW-35DL
Inj Date : 30-AUG-2002 20:47
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-11EDL,MW-35DL,V6B0830A,3,A1243
Misc Info : 21-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\v68260.m
Meth Date : 10-Sep-2002 17:16 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 10
Dil Factor: 3.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	3.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
9 Acetone	43	3.860	3.848	(0.549)	236122	120.707	360
22 2-Butanone	43	5.740	5.734	(0.817)	72526	28.4890	85
S 30 Dibromofluoromethane	113	6.257	6.257	(0.890)	320696	53.1493	53
S 35 1,2-Dichloroethane-d4	102	6.640	6.640	(0.945)	77494	51.7533	52
* 38 Fluorobenzene	96	7.029	7.035	(1.000)	1333369	50.0000	
S 47 Toluene-d8	98	8.921	8.921	(0.828)	1174044	54.3670	55
* 57 Chlorobenzene-d5	117	10.771	10.771	(1.000)	855212	50.0000	
S 68 Bromofluorobenzene	95	12.219	12.218	(1.134)	369505	48.3864	48
* 81 1,4-Dichlorobenzene-d4	152	13.594	13.587	(1.000)	441516	50.0000	

9/13/02

000278

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2529.D
Report Date: 10-Sep-2002 17:17

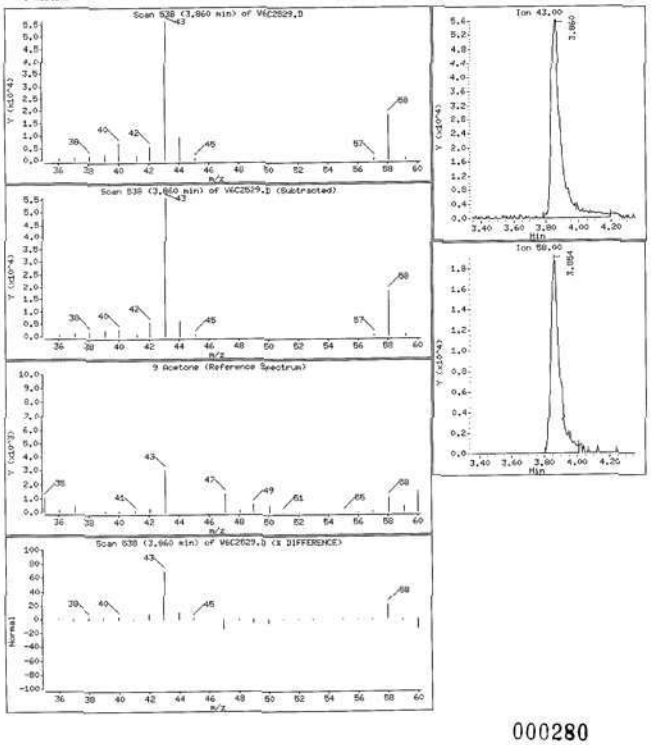
Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2529.D
Lab Smp Id: A1243-11EDL Client Smp ID: MW-35DL
Inj Date : 30-AUG-2002 20:47
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-11EDL,MW-35DL,V6B0830A,3,A1243
Misc Info : 21-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\v68260.m
Meth Date : 10-Sep-2002 17:16 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 10
Dil Factor: 3.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

000279



000280

Data File: \\MSGADRC\USERDATA\Organic\voa\v6..\020830.B\V6C2829.D

Date : 30-AUG-2002 20:47

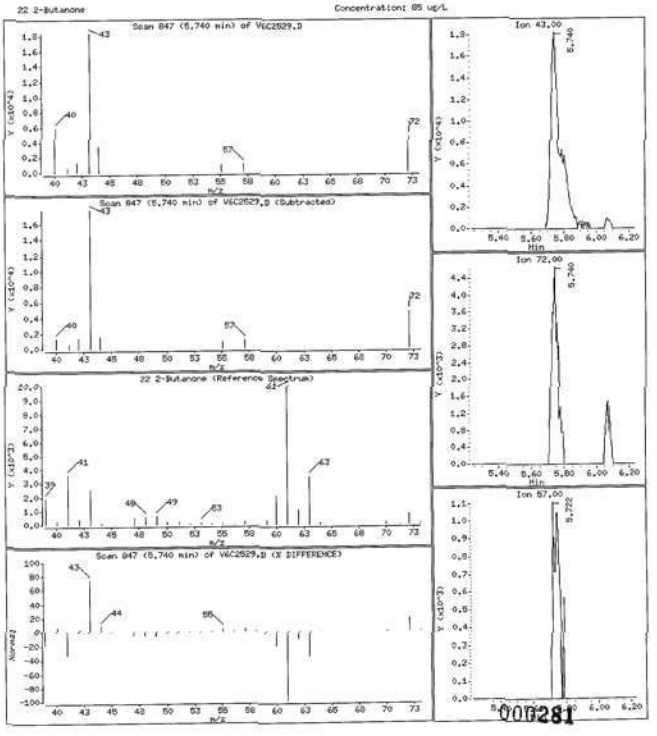
Client ID: MW-36DL — Instrument: V6.i

Sample Info: HRP,A1243-11EIL,MW-36DL,V6B0830A,3,A1243

Purge Volume: 5.0 — Operator: RY

Column phase: DB-624 — Column diameter: 0.25

22 2-Butanone — Concentration: 05 ug/L



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW-40

Lab Name: MITKEM CORPORATION — Contract:

Lab Code: MITKEM — Case No.: — SAS No.: — SDG No.: A1243

Matrix: (soil/water) WATER — Lab Sample ID: A1243-05A

Sample wt/vol: 5.000 (g/mL) ML — Lab File ID: V6C2498

Level: (low/med) LOW — Date Received: 08/20/02

% Moisture: not dec. _____ — Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) — Dilution Factor: 1.0

Soil Extract Volume: _____(uL) — Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	320	E
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	100	
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	1	J
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA — OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW-40

Lab Name: MITKEM CORPORATION — Contract:

Lab Code: MITKEM — Case No.: — SAS No.: — SDG No.: A1243

Matrix: (soil/water) WATER — Lab Sample ID: A1243-05A

Sample wt/vol: 5.000 (g/mL) ML — Lab File ID: V6C2498

Level: (low/med) LOW — Date Received: 08/20/02

% Moisture: not dec. _____ — Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) — Dilution Factor: 1.0

Soil Extract Volume: _____(uL) — Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA — OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: MW-40

Lab Name: MITKEM CORPORATION — Contract:

Lab Code: MITKEM — Case No.: — SAS No.: — SDG No.: A1243

Matrix: (soil/water) WATER — Lab Sample ID: A1243-05A

Sample wt/vol: 5.000 (g/mL) ML — Lab File ID: V6C2498

Level: (low/med) LOW — Date Received: 08/20/02

% Moisture: not dec. _____ — Date Analyzed: 08/30/02

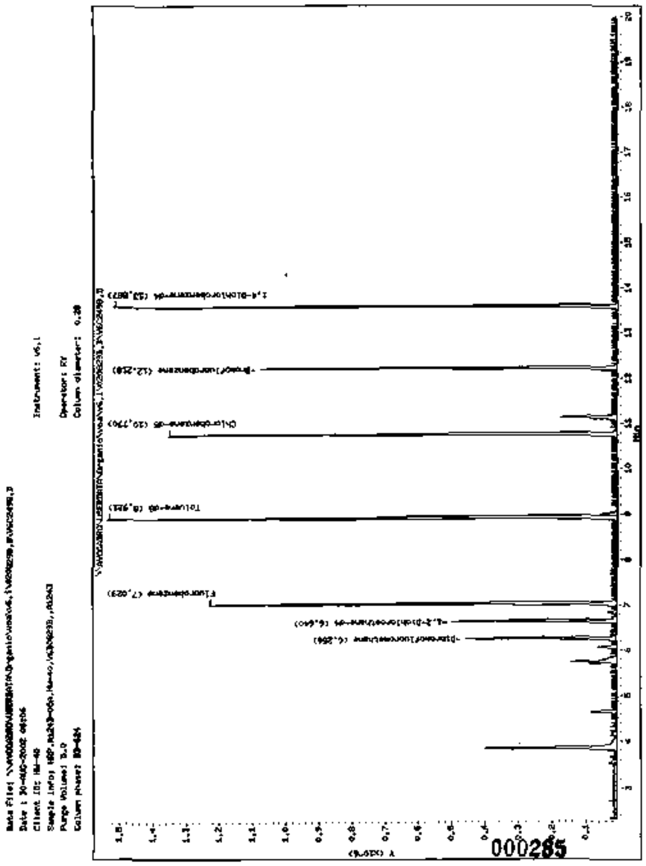
GC Column: DB-624 ID: 0.25 (mm) — Dilution Factor: 1.0

Soil Extract Volume: _____(uL) — Soil Aliquot Volume: _____(uL)

Number TICs found: 1 — CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	11.13	8	J
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC — OLM03.0



Data File: V6C2498.D
Report Date: 10-Sep-2002 17:15

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2498.D
Lab Smp Id: A1243-05A Client Smp ID: MW-40
Inj Date : 30-AUG-2002 06:06
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-05A,MW-40,V6B0829B,,A1243
Misc Info : 20-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\v68260.m
Meth Date : 10-Sep-2002 17:13 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D✓
Als bottle: 43
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
# Acetone	43	3.447	3.446	(0.347)	756377	332.585	330(A)
17 Methyl tert-butyl ether	73	4.650	4.648	(0.442)	64750	4.73266	5
22 2-Butanone	43	5.733	5.734	(0.534)	315041	103.206	100
$ 30 Dibromofluoromethane	113	6.257	6.257	(0.579)	373551	51.4903	51
$ 35 1,2-Dichloroethane-d4	102	6.600	6.614	(0.613)	89874	50.7399	50
* 36 Fluorobenzene	96	7.019	7.029	(1.000)	1675761	50.0000	
$ 47 Toluene-d8	98	8.991	8.921	(0.829)	1463966	54.1126	54
48 Toluene	91	9.006	9.001	(1.282)	43947	1.35175	1(a)
* 57 Chlorobenzene-d5	117	10.770	10.771	(1.000)	3034875	50.0000	
$ 60 Bromofluorobenzene	95	12.218	12.219	(1.134)	463733	50.1834	50
* 61 1,4-Dichlorobenzene-d4	152	13.533	13.587	(1.000)	836330	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Y/c
9/10/02

Data File: V6C2498.D
Report Date: 10-Sep-2002 17:15

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: V6C2498.D
Report Date: 11-Sep-2002 12:23

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2498.D
Lab Smp Id: A1243-05A Client Smp ID: MW-40
Inj Date : 30-AUG-2002 06:06
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-05A,MW-40,V6B0829B,,A1243
Misc Info : 20-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\v68260.m
Meth Date : 10-Sep-2002 17:36 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 43
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

ISTD	RT	AREA	AMOUNT
* 57 Chlorobenzene-d5	10.770	3195091	50.000

RT	AREA	CONCENTRATIONS ON-COL(ug/L)	CONCENTRATIONS FINAL(ug/L)	QUAL	LIBRARY	QUANT LIB ENTRY	QUANT CPND #
Unknown				CAS #:			
11.139	464652	7.43752095		F	0	0	57

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2498.D

Date : 30-AUG-2002 06:06

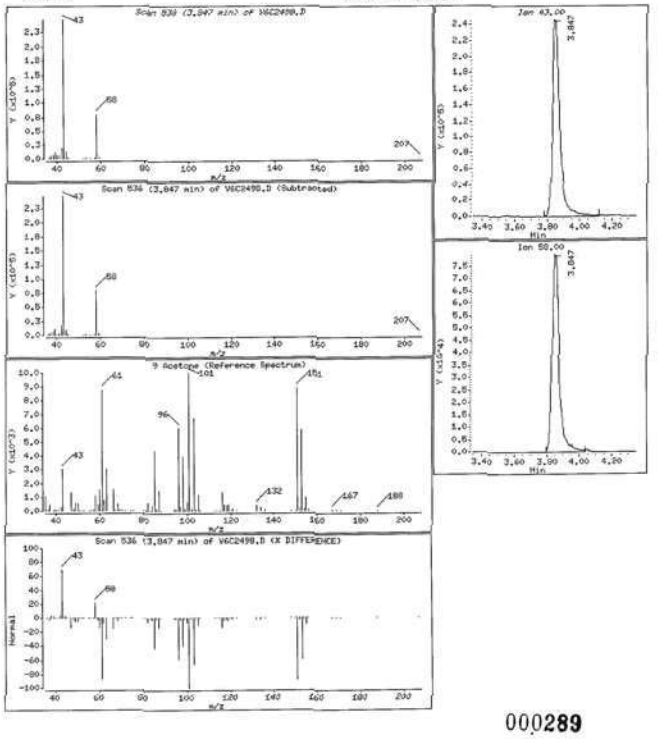
Client ID: MW-40 Instrument: v6.i

Sample Info: MRP,A1243-05A,MW-40,V6B0829B,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

9 Acetone Concentration: 320 ug/L



000289

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2498.D

Date : 30-AUG-2002 06:06

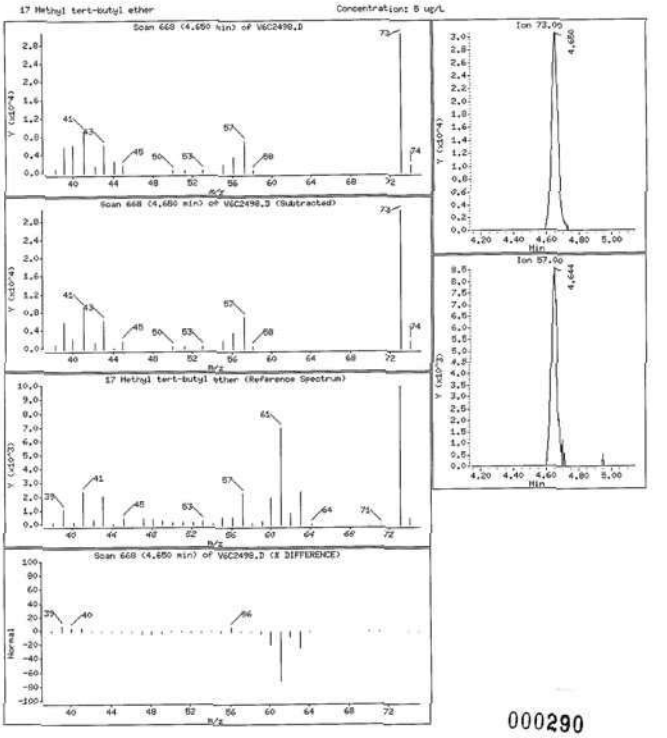
Client ID: MW-40 Instrument: v6.i

Sample Info: MRP,A1243-05A,MW-40,V6B0829B,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

17 Methyl tert-butyl ether Concentration: 5 ug/L



000290

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2498.D

Date : 30-AUG-2002 06:06

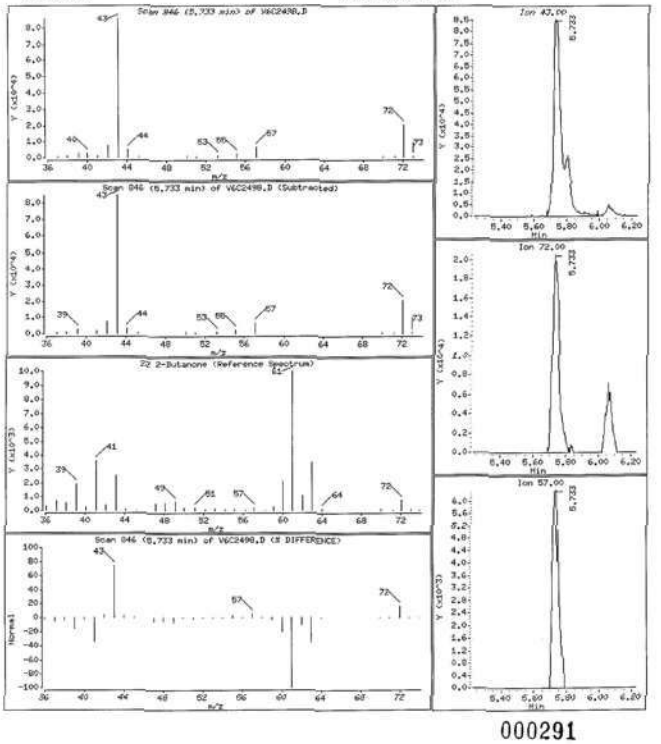
Client ID: MW-40 Instrument: v6.i

Sample Info: MRP,A1243-05A,MW-40,V6B0829B,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

22 2-Butanone Concentration: 100 ug/L



000291

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2498.D

Date : 30-AUG-2002 06:06

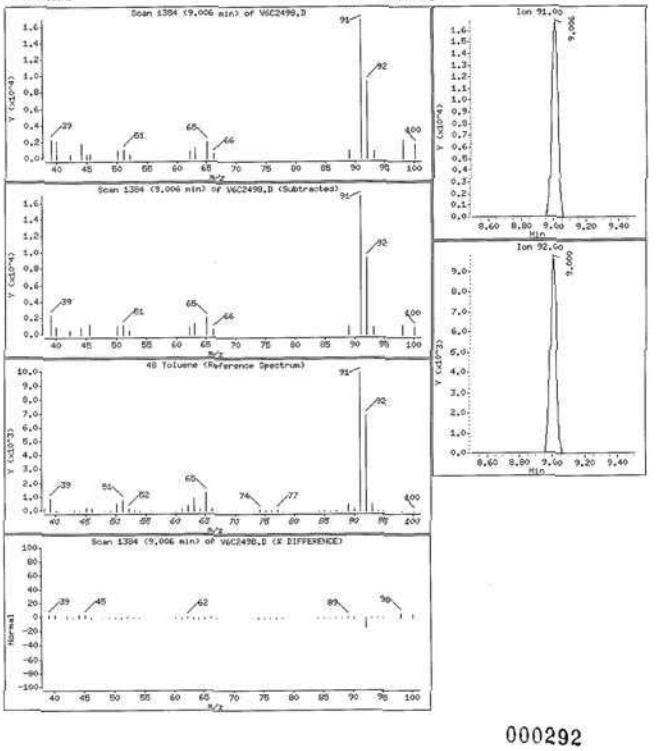
Client ID: MW-40 Instrument: v6.i

Sample Info: MRP,A1243-05A,MW-40,V6B0829B,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

48 Toluene Concentration: 1 ug/L



000292

Data File: \\AVOCADRO\USERDATA\Organic\voa\v6.1\0200299.B\V6C2498.D

Date : 30-AUG-2002 06:06

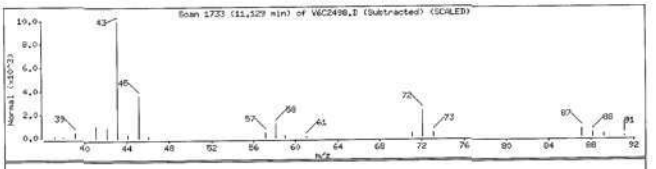
Client ID: MW-40 Instrument: v6.1

Sample Info: MBP,A1243-05A,MW-40,V6B0299B,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW-40DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-05ADL

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2528

Level: (low/med) LOW Date Received: 08/20/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.5

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
67-64-1	Acetone	350	D
75-09-2	Methylene Chloride	12	U
107-13-1	Acrylonitrile	12	U
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	Methyl tert-butyl ether	4	DJ
75-34-3	1,1-Dichloroethane	12	U
78-93-3	2-Butanone	91	D
156-59-2	cis-1,2-Dichloroethene	12	U
590-20-7	2,2-Dichloropropane	12	U
74-97-5	Bromochloromethane	12	U
67-66-3	Chloroform	12	U
109-99-9	Tetrahydrofuran	12	U
71-55-6	1,1,1-Trichloroethane	12	U
563-58-6	1,1-Dichloropropene	12	U
56-23-5	Carbon Tetrachloride	12	U
107-06-2	1,2-Dichloroethane	12	U
71-43-2	Benzene	12	U
79-01-6	Trichloroethene	12	U
78-87-5	1,2-Dichloropropane	12	U
74-95-3	Dibromomethane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-pentanone	12	U
108-88-3	Toluene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW-40DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-05ADL

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2528

Level: (low/med) LOW Date Received: 08/20/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.5

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
630-20-6	1,1,1,2-Tetrachloroethane	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (Total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-86-1	Bromobenzene	12	U
96-18-4	1,2,3-Trichloropropane	12	U
103-65-1	n-Propylbenzene	12	U
95-49-8	2-Chlorotoluene	12	U
108-67-8	1,3,5-Trimethylbenzene	12	U
106-43-4	4-Chlorotoluene	12	U
98-06-6	tert-Butylbenzene	12	U
95-63-6	1,2,4-Trimethylbenzene	12	U
135-98-8	sec-Butylbenzene	12	U
99-87-6	4-Isopropyltoluene	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
104-51-8	n-Butylbenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U
87-68-3	Hexachlorobutadiene	12	U
91-20-3	Naphthalene	12	U
87-61-6	1,2,3-Trichlorobenzene	12	U
544-10-5	1-Chlorohexane	12	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: MW-40DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-05ADL

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2528

Level: (low/med) LOW Date Received: 08/20/02

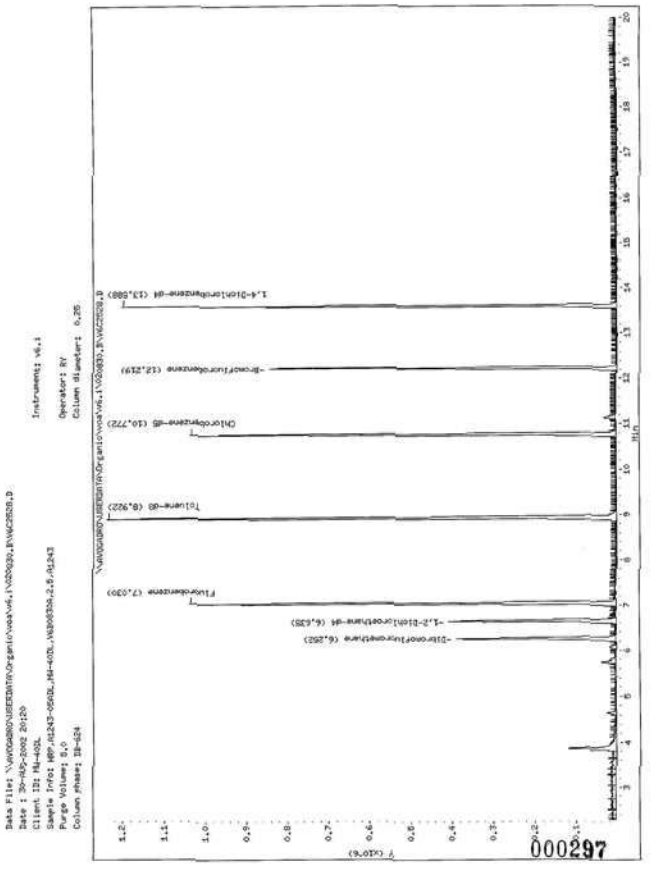
% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.5

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2528.D
Report Date: 13-Sep-2002 12:29

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2528.D
Lab Smp Id: A1243-05ADL Client Smp ID: MW-40DL
Inj Date : 30-AUG-2002 20:20
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-05ADL,MW-40DL,V6B0830A,2.5,A1243
Misc Info : 20-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\v68260.m
Meth Date : 10-Sep-2002 17:16 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D ✓
Als bottle: 9
Dil Factor: 2.50000
Integrator: HP RTE Compound Sublist: HRP.sub ✓
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	2.500 ✓	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
	9 Acetone	43	3.855	3.848	(0.548)	264762	159.104	350
	17 Methyl tert-butyl ether	73	4.646	4.651	(0.661)	21162	1.45618	4(a)
	22 2-Butanone	43	5.747	5.734	(0.817)	90288	36.4504	91
$	30 Dibromofluoromethane	113	6.253	6.257	(0.889)	108104	52.4805	52
$	35 1,2-Dichloroethane-d4	102	6.635	6.640	(0.944)	71366	48.9972	49
*	36 Fluorobenzene	96	7.030	7.029	(1.000)	1200064	50.0000	
$	47 Toluene-d8	98	8.922	8.921	(0.838)	1138366	55.0101	55
*	57 Chlorobenzene-d5	117	10.772	10.771	(1.000)	825409	50.0000	
$	65 Bromofluorobenzene	95	12.819	13.218	(1.134)	358311	47.5288	48
*	81 1,4-Dichlorobenzene-d4	152	13.588	13.587	(1.000)	624011	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Y/N
09/13/02

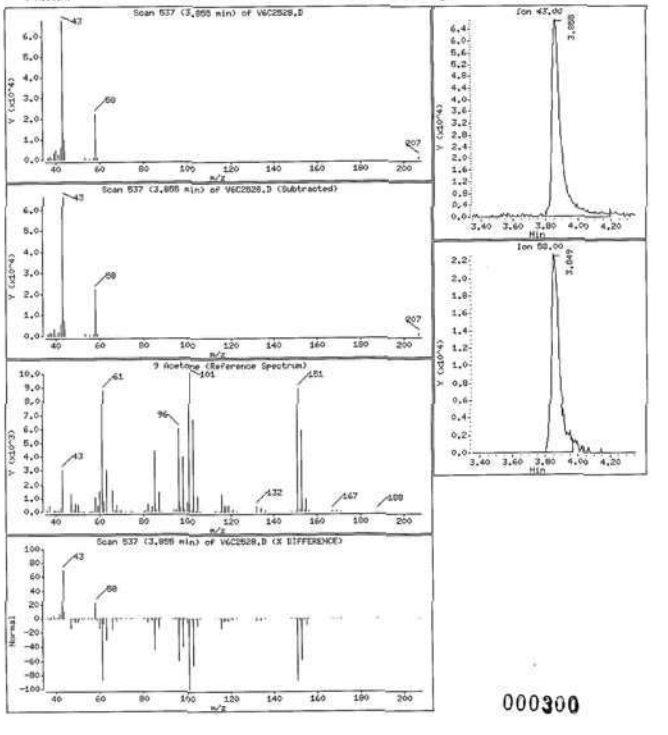
Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2528.D
Report Date: 10-Sep-2002 17:17

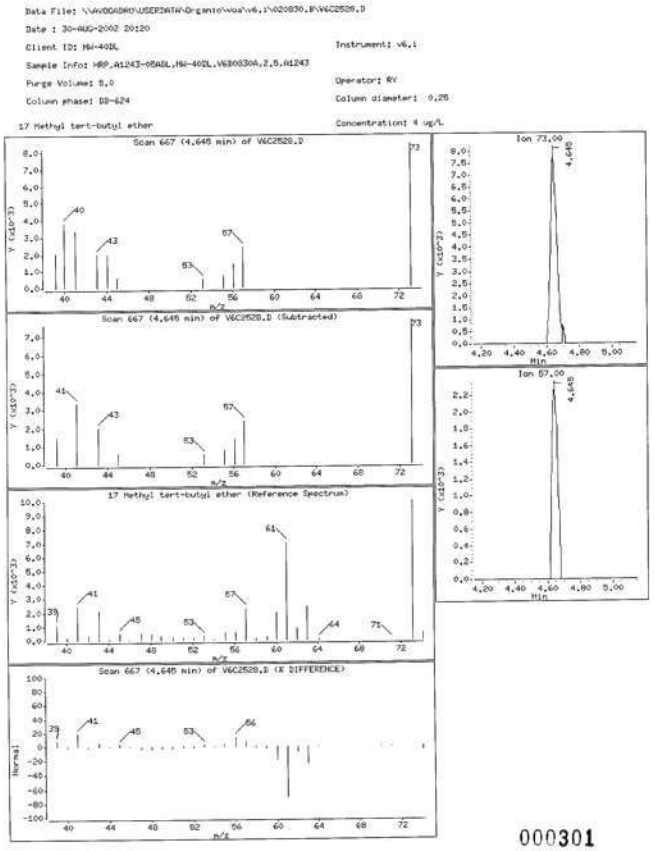
Mitkem Corporation

Method 8260 Water and Medium Soil

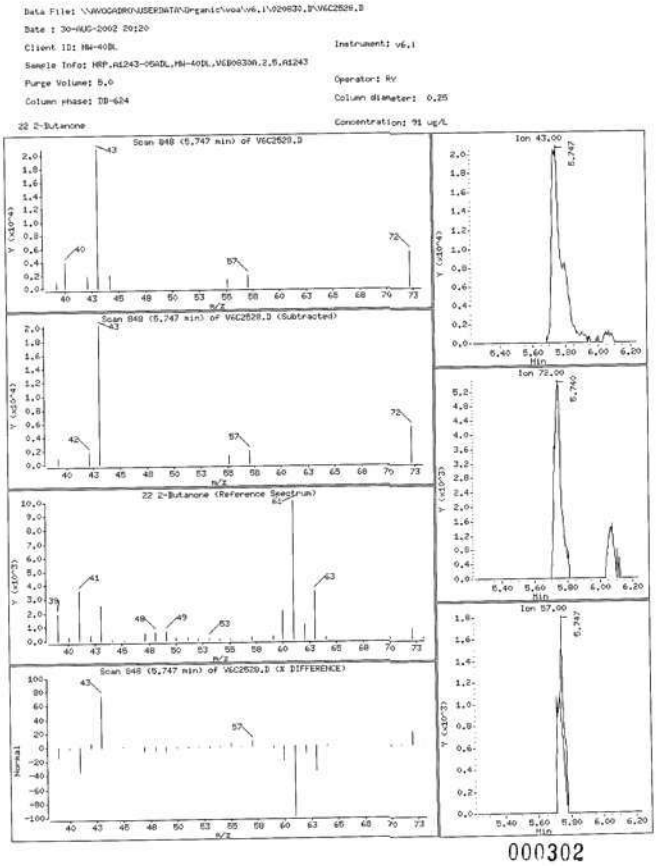
Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2528.D
Lab Smp Id: A1243-05ADL Client Smp ID: MW-40DL
Inj Date : 30-AUG-2002 20:20
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-05ADL,MW-40DL,V6B0830A,2.5,A1243
Misc Info : 20-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\v68260.m
Meth Date : 10-Sep-2002 17:16 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 9
Dil Factor: 2.50000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -





000301



000302

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-41

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-09A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2500

Level: (low/med) LOW Date Received: 08/21/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

000303

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-41

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-09A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2500

Level: (low/med) LOW Date Received: 08/21/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

000304

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-41

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-09A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2500

Level: (low/med) LOW Date Received: 08/21/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

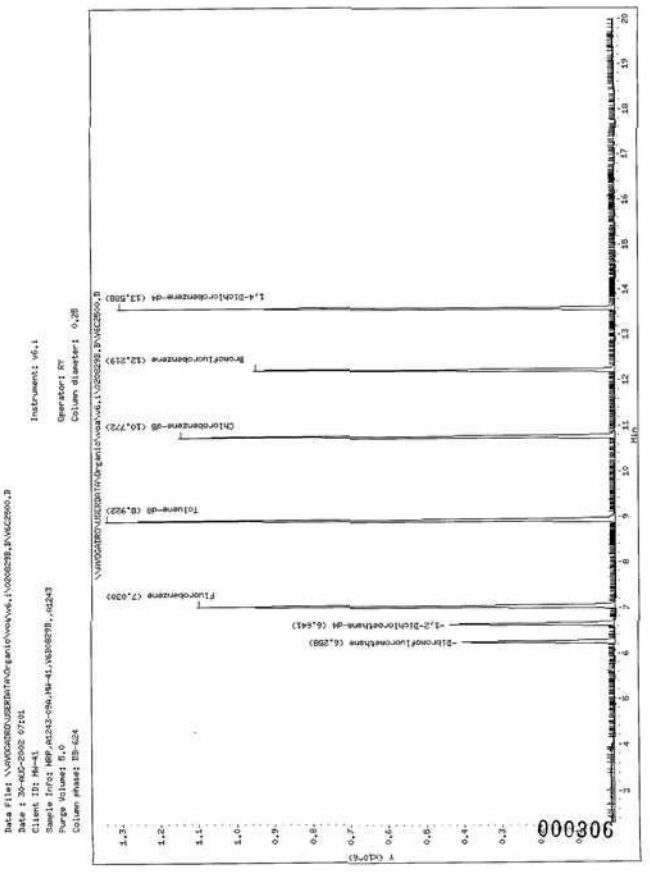
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

000305



000306

Data File: V6C2500.D
Report Date: 10-Sep-2002 17:15

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2500.D
Lab Smp Id: A1243-09A Client Smp ID: MW-41
Inj Date : 30-AUG-2002 07:01
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-09A,MW-41,V6B0829B,,A1243
Misc Info : 21-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\v68260.m
Meth Date : 10-Sep-2002 17:13 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 45
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 10 Dibromofluoromethane	113	6.258	6.257	(0.890)	323496	50.7980	51
$ 35 1,2 Dichloroethane-d4	102	6.641	6.634	(0.945)	80548	51.1251	51
* 38 Fluorobenzene	96	7.030	7.029	(1.000)	1297726	50.0000	
$ 47 Toluene-d8	98	8.922	8.921	(0.828)	1227245	53.8154	54
* 57 Chlorobenzene-d5	117	10.772	10.771	(1.000)	909607	50.0000	
$ 68 Bromofluorobenzene	95	12.319	12.319	(1.134)	392587	48.3362	48
* 81 1,4-Dichlorobenzene-d4	152	13.594	13.587	(1.000)	471482	50.0000	

Yn
09/10/02

000307

Data File: V6C2500.D
Report Date: 11-Sep-2002 12:23

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2500.D
Lab Smp Id: A1243-09A Client Smp ID: MW-41
Inj Date : 30-AUG-2002 07:01
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-09A,MW-41,V6B0829B,,A1243
Misc Info : 21-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\v68260.m
Meth Date : 10-Sep-2002 17:36 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 45
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIPIED COMPOUNDS -

000308

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-6

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-01A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2494

Level: (low/med) LOW Date Received: 08/20/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	4	J
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	9	
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	4	J
75-34-3	1,1-Dichloroethane	43	
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	130	
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

000309

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-6

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-01A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2494

Level: (low/med) LOW Date Received: 08/20/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000310

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-6

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-01A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2494

Level: (low/med) LOW Date Received: 08/20/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

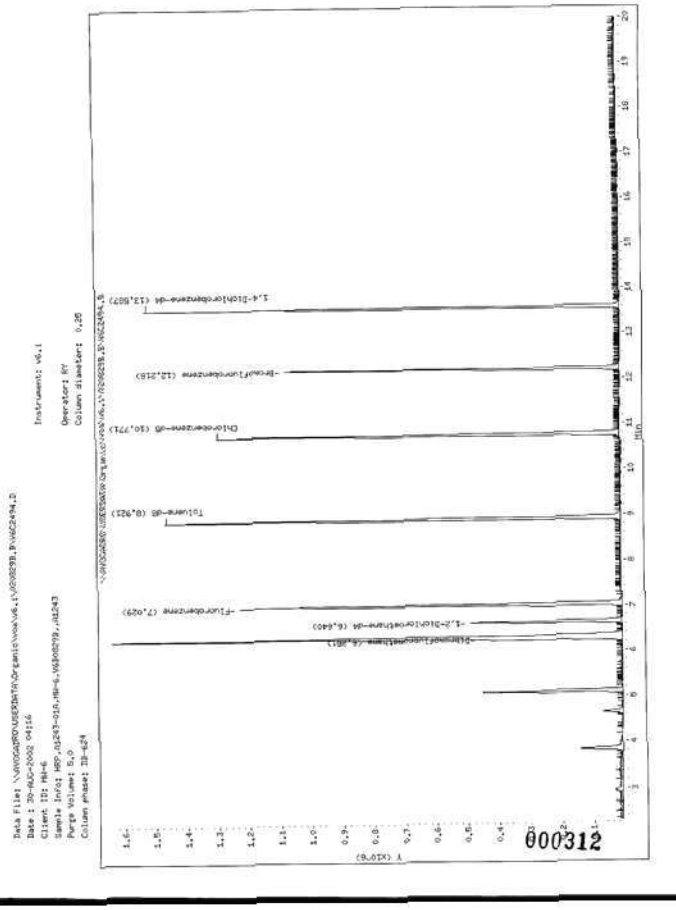
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

000311



000312

Data File: V6C2494.D
Report Date: 10-Sep-2002 17:14

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2494.D
Lab Smp Id: A1243-01A Client Smp ID: MW-6
Inj Date : 30-AUG-2002 04:16
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-01A,MW-6,V6B0829B,,A1243
Misc Info : 20-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\v68260.m
Meth Date : 10-Sep-2002 17:13 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 39
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	Resp RT	Rel RT	RESPONSE	CONCENTRATIONS On-COLUMN (ug/L)	FINAL (ug/L)
	5 Chloroethane	64	2.953	2.947	(0.820)	26542	5.85699	6(a)
	9 1,1-Dichloroethene	96	3.441	3.430	(0.544)	76992	6.91442	7
	17 Methyl tert-butyl ether	73	4.644	4.645	(0.661)	69774	3.87432	4(a)
	19 1,1-Dichloroethane	63	5.089	5.095	(0.723)	582649	42.7303	43
S	30 Dibromofluoromethane	111	6.251	6.257	(0.888)	195799	51.5765	52
	31 1,1,1-Trichloroethane	97	6.389	6.389	(0.897)	1492747	331.880	330
P	32 1,2-Dichloroethane-d4	102	6.434	6.442	(0.902)	90897	57.2795	57
*	38 Fluorobenzene	96	7.029	7.029	(1.000)	1449755	50.0000	
S	47 Toluene-d8	98	8.921	8.921	(0.828)	1378833	52.9647	53
*	57 Chlorobenzene d5	117	10.771	10.771	(1.000)	1039528	50.0000	
S	68 Bromofluorobenzene	95	12.318	12.319	(1.134)	455684	49.0912	49
*	81 1,4-Dichlorobenzene-d4	152	13.587	13.587	(1.000)	573826	50.0000	

Data File: V6C2494.D
Report Date: 10-Sep-2002 17:14

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

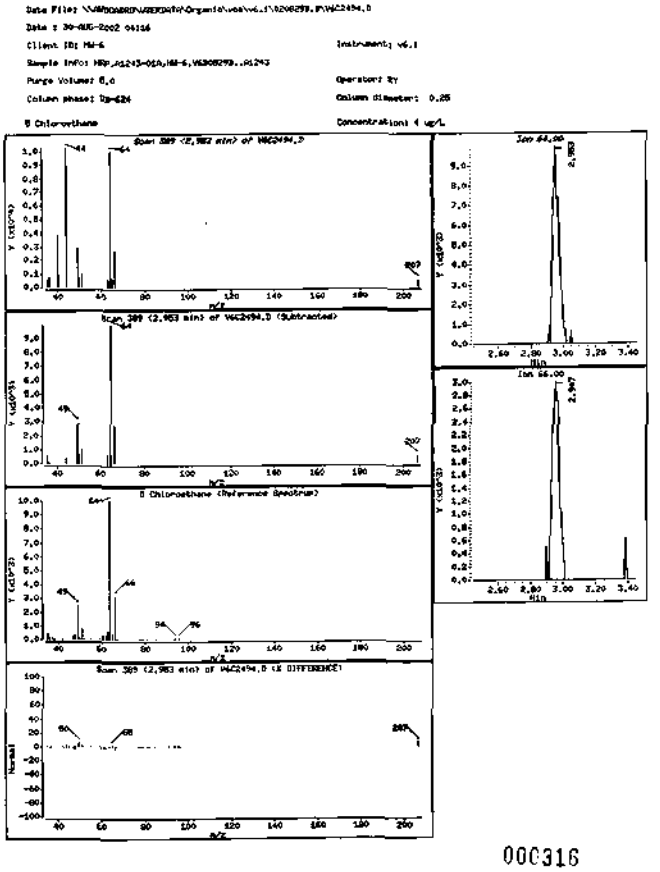
Data File: V6C2494.D
Report Date: 11-Sep-2002 12:21

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2494.D
Lab Smp Id: A1243-01A Client Smp ID: MW-6
Inj Date : 30-AUG-2002 04:16
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-01A,MW-6,V6B0829B,,A1243
Misc Info : 20-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\v68260.m
Meth Date : 10-Sep-2002 17:36 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 39
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\0208298.B\V6C2494.D

Date : 30-AUG-2002 04:16

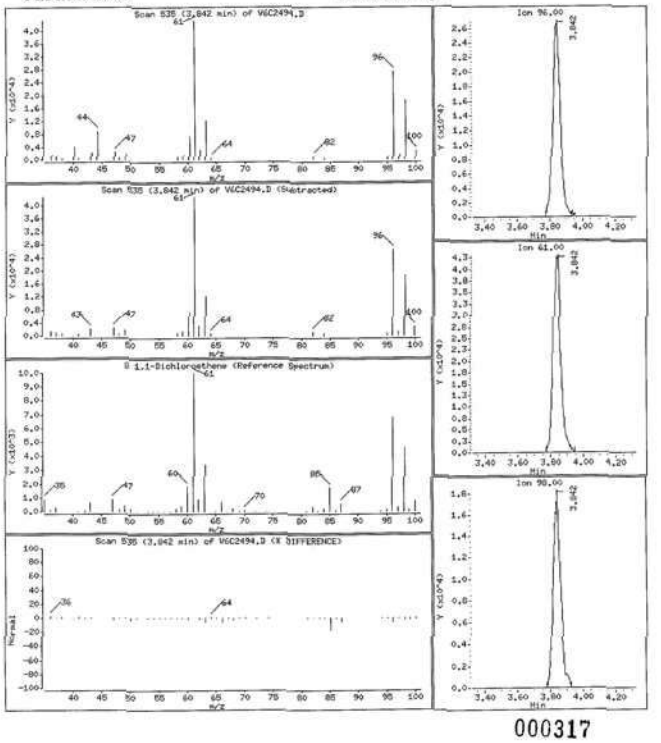
Client ID: MW-6 Instrument: v6.i

Sample Info: HRP,A1243-01A,MW-6,V6B08298.,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

8 1,1-Dichloroethene Concentration: 9 ug/L



000317

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\0208298.B\V6C2494.D

Date : 30-AUG-2002 04:16

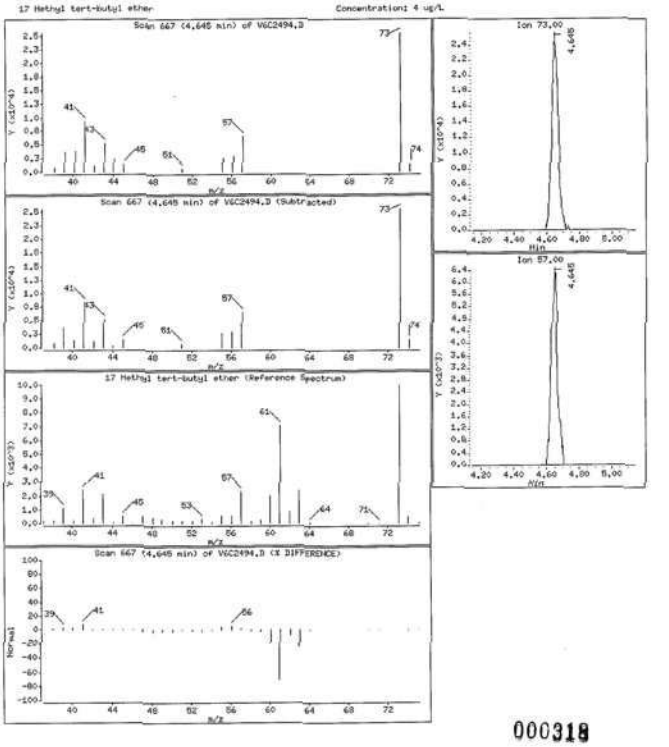
Client ID: MW-6 Instrument: v6.i

Sample Info: HRP,A1243-01A,MW-6,V6B08298.,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

17 Methyl tert-butyl ether Concentration: 4 ug/L



000318

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\0208298.B\V6C2494.D

Date : 30-AUG-2002 04:16

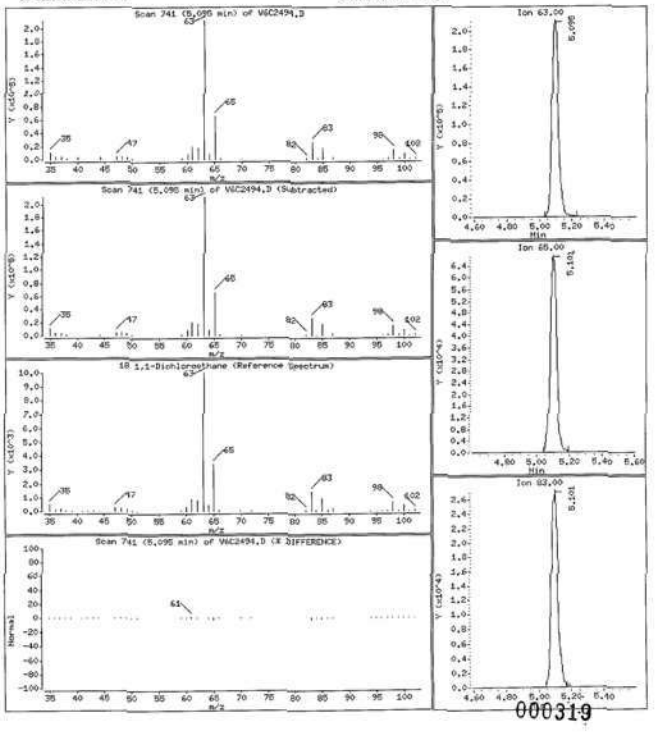
Client ID: MW-6 Instrument: v6.i

Sample Info: HRP,A1243-01A,MW-6,V6B08298.,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

18 1,1-Dichloroethane Concentration: 43 ug/L



000319

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\0208298.B\V6C2494.D

Date : 30-AUG-2002 04:16

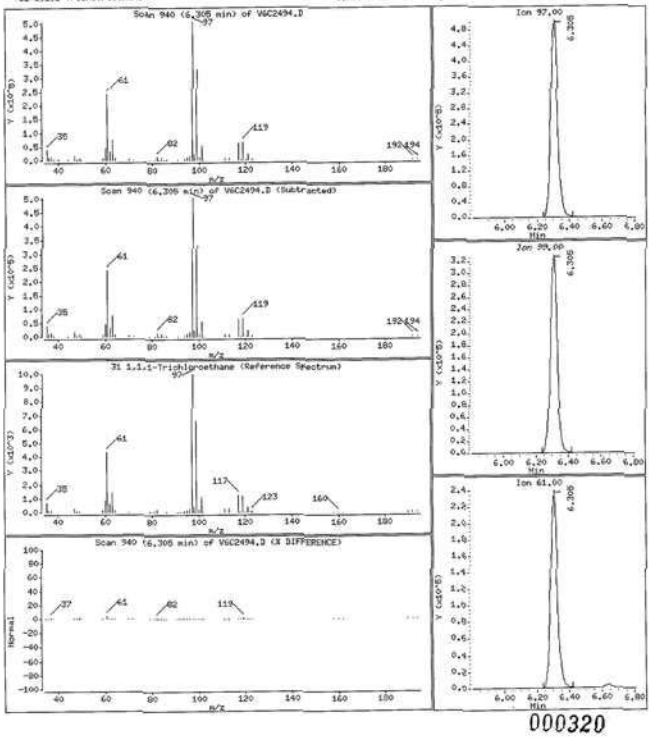
Client ID: MW-6 Instrument: v6.i

Sample Info: HRP,A1243-01A,MW-6,V6B08298.,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

31 1,1,1-Trichloroethane Concentration: 130 ug/L



000320

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-08E

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2516

Level: (low/med) LOW Date Received: 08/21/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	2	J
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	1	J
67-64-1	Acetone	5	
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	6	
75-34-3	1,1-Dichloroethane	9	
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	3	J
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

000321

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-08E

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2516

Level: (low/med) LOW Date Received: 08/21/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000322

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-7

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-08E

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2516

Level: (low/med) LOW Date Received: 08/21/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

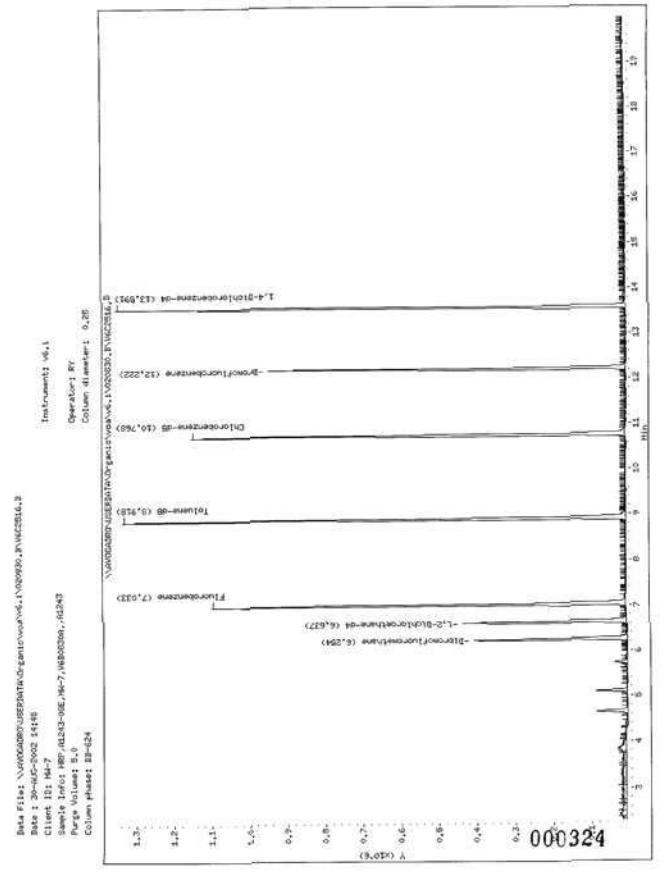
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

000323



000324

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2516.D
Report Date: 10-Sep-2002 17:16

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2516.D
Lab Smp Id: A1243-08E Client Smp ID: MW-7
Inj Date : 30-AUG-2002 14:45
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-08E,MW-7,V6B0830A,,A1243
Misc Info : 21-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\v68260.m
Meth Date : 10-Sep-2002 17:16 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D ✓
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
	3 Vinyl Chloride	62	2.415	2.412	(0.343)	25843	2.43032	2(a)	
	8 1,1-Dichloroethene	96	3.833	3.836	(0.545)	12511	1.19546	1(aQ)	
	9 Acetone	43	3.851	3.848	(0.548)	11145	5.44492	5(M) ✓	M3
	17 Methyl tert-Butyl ether	73	4.648	4.651	(0.661)	9232	5.90720	6	✓
	18 1,1-Dichloroethane	63	5.096	5.095	(0.725)	10923	8.99579	8	09/11/02
	23 cis-1,2 Dichloroethene	96	5.731	5.734	(0.815)	2044	2.90346	3(a)	
S	30 Dibromofluoromethane	113	6.254	6.257	(0.889)	110306	50.3133	50	
S	35 1,2-Dichloroethane-d4	102	6.037	6.040	(0.944)	78710	50.2327	50	
*	38 Fluorobenzene	96	7.033	7.039	(1.000)	1290656	50.0000		
S	47 Toluene-d8	98	8.916	8.921	(0.828)	123128	54.1360	54	
*	57 Chlorobenzene-d5	117	10.768	10.771	(1.000)	907199	50.0000		
S	68 Bromofluorobenzene	95	12.223	12.218	(1.135)	387799	47.8562	48	
*	81 1,4-Dichlorobenzene-d4	152	13.591	13.587	(1.000)	694065	50.0000		

✓ 09/11/02

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2516.D
Report Date: 10-Sep-2002 17:16

QC Flag Legend

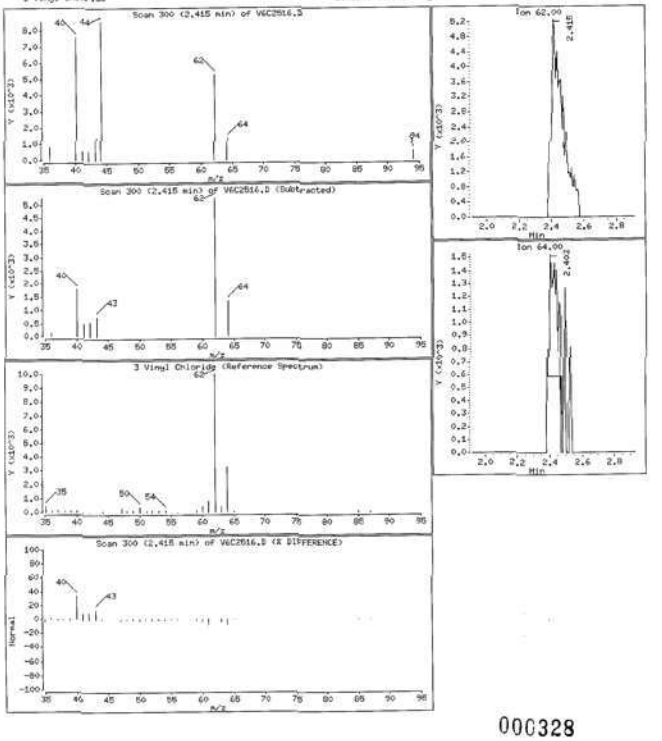
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2516.D
Report Date: 10-Sep-2002 17:16

Mitkem Corporation

Method 8260 Water and Medium Soil
Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2516.D
Lab Smp Id: A1243-08E Client Smp ID: MW-7
Inj Date : 30-AUG-2002 14:45
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-08E,MW-7,V6B0830A,,A1243
Misc Info : 21-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\v68260.m
Meth Date : 10-Sep-2002 17:16 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2516.D

Date : 30-AUG-2002 14:48

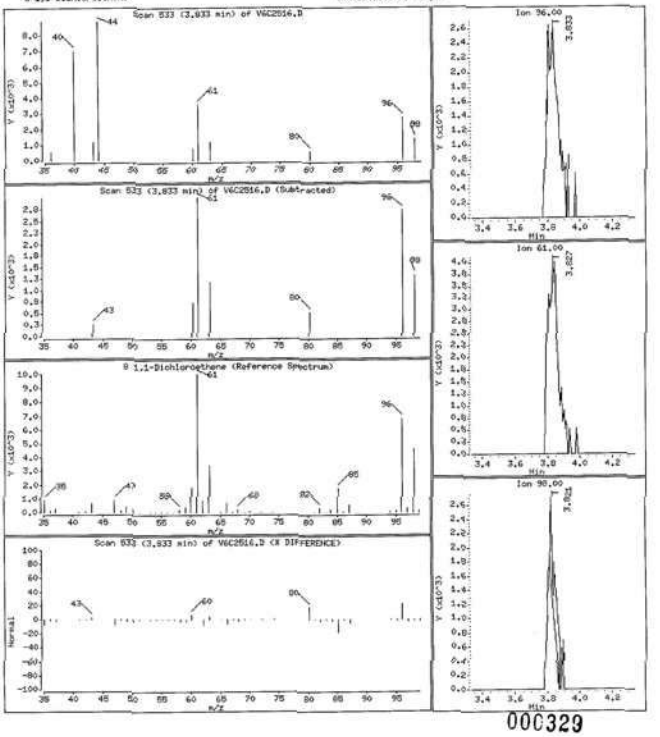
Client ID: MW-7 Instrument: v6.i

Sample Info: HRP,A1243-08E,MW-7,V6B0830A,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

8 1,1-Dichloroethene Concentration: 5 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2516.D

Date : 30-AUG-2002 14:48

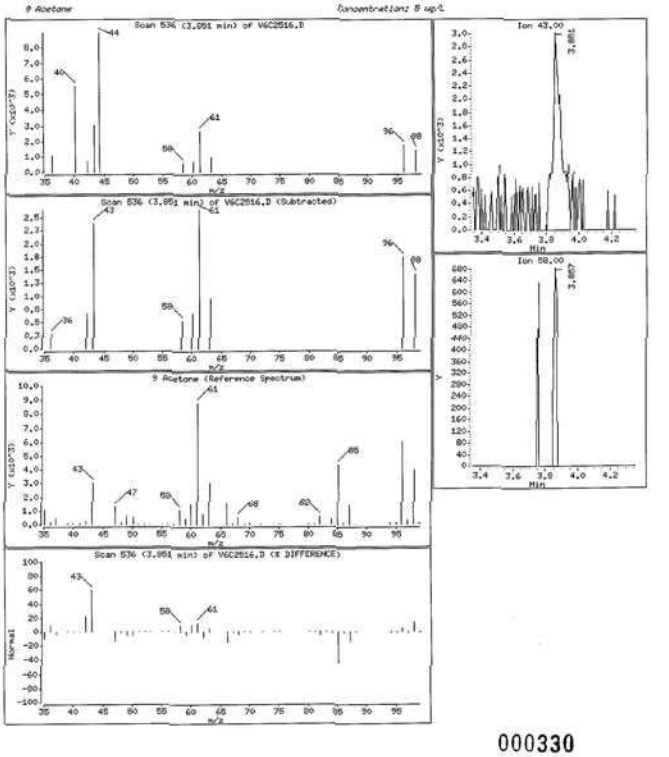
Client ID: MW-7 Instrument: v6.i

Sample Info: HRP,A1243-08E,MW-7,V6B0830A,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

9 Acetone Concentration: 5 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2516.D

Date : 30-AUG-2002 14:48

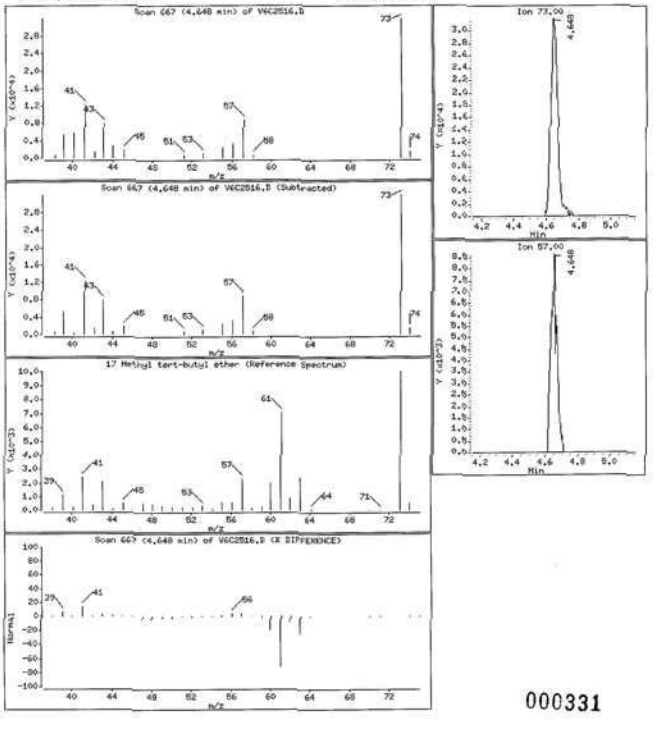
Client ID: MW-7 Instrument: v6.i

Sample Info: HRP,A1243-08E,MW-7,V6B0830A,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

17 Methyl tert-butyl ether Concentration: 6 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2516.D

Date : 30-AUG-2002 14:48

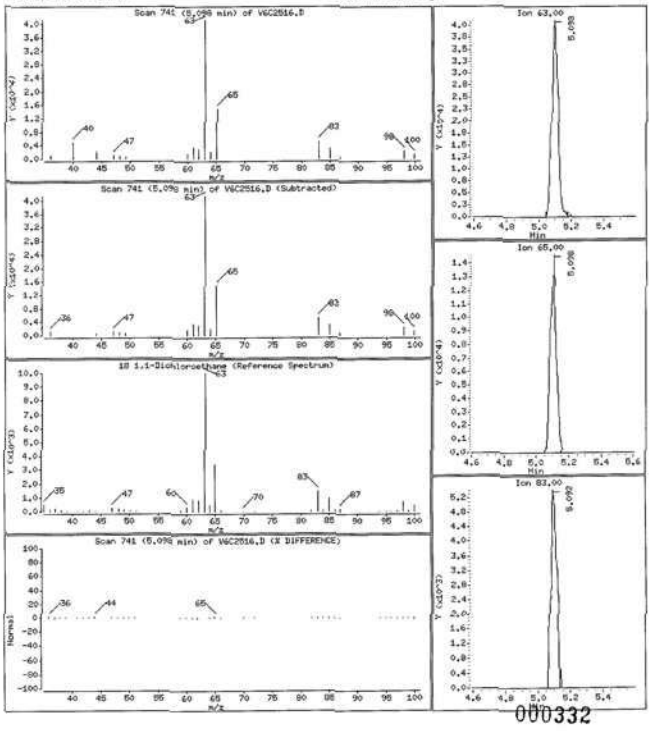
Client ID: MW-7 Instrument: v6.i

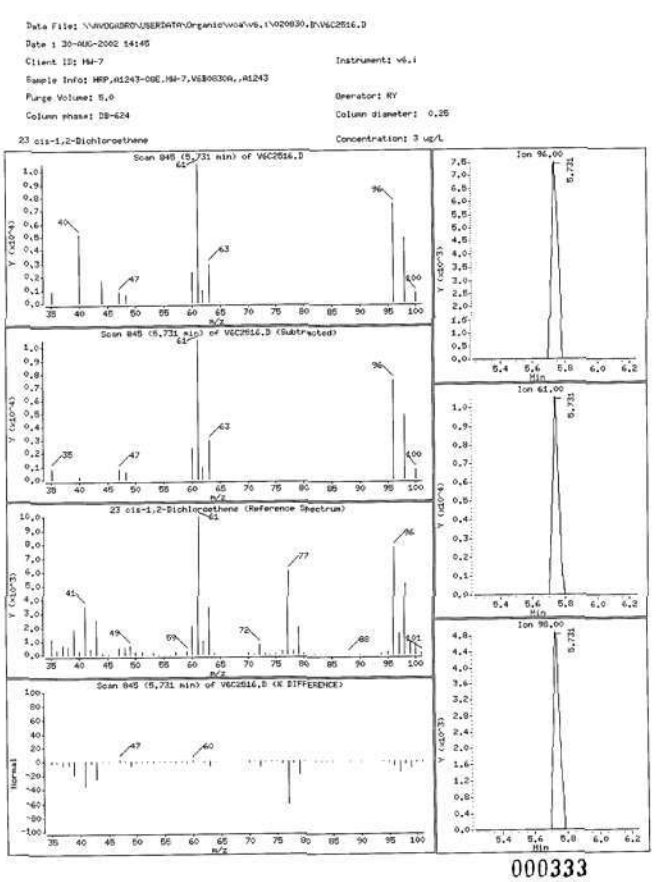
Sample Info: HRP,A1243-08E,MW-7,V6B0830A,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

18 1,1-Dichloroethane Concentration: 9 ug/L





000333

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW10

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-38A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2561
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	2	J
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	2	J
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

000334

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW10

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-38A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2561
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000335

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW10

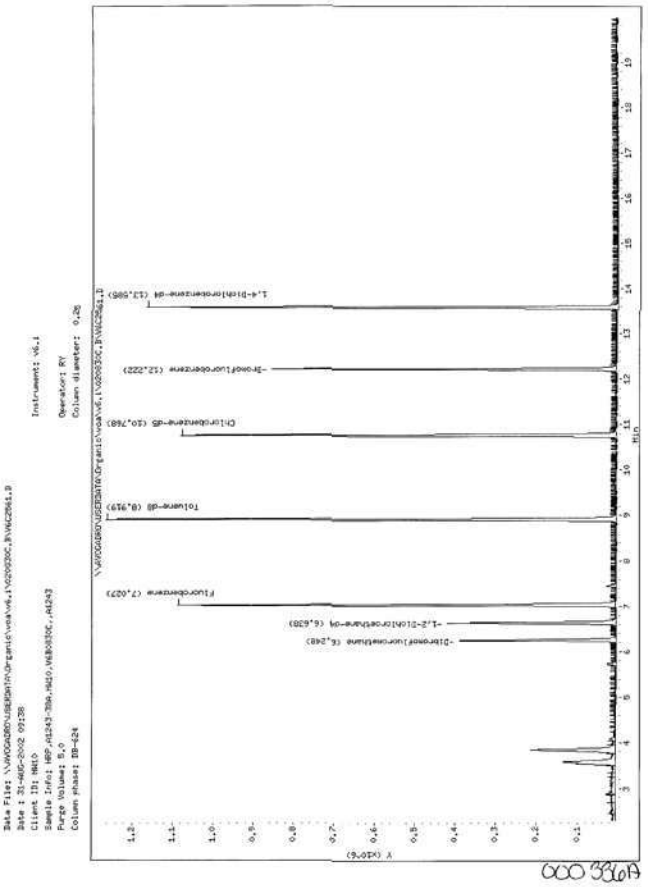
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-38A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2561
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	354-23-4	ETHANE, 1,2-DICHLORO-1,1,2-T	3.60	12	JN
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0

000336



000336

Data File: V6C2561.D
Report Date: 10-Sep-2002 17:22

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2561.D
Lab Smp Id: A1243-38A Client Smp ID: MW10
Inj Date : 31-AUG-2002 09:38
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-38A,MW10,V6B0830C,,A1243
Misc Info : 23-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 38
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
23 cis-1,2-Dichloroethene	96	5.731	5.734	(0.816)	13149	1.97726	2(a)
$ 30 Dibromofluoromethane	113	4.254	4.252	(0.890)	109715	51.9484	52
$ 35 1,2-Dichloroethane-d4	102	6.638	6.641	(0.945)	75014	51.2409	51
* 38 Fluorobenzene	96	7.027	7.030	(1.000)	2218695	50.0000	
39 Trichloroethene	130	7.465	7.456	(1.062)	10831	1.52097	2(a)
$ 47 Toluene-d8	98	8.919	8.916	(0.826)	1156801	54.8282	55
* 57 Chlorobenzene-d5	117	10.768	10.765	(1.000)	841558	50.0000	
$ 68 Bromofluorobenzene	95	12.222	12.219	(1.135)	348709	46.4036	46
* 81 1,4-Dichlorobenzene-d4	152	13.591	13.588	(1.000)	437009	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Y/a 9/11/02

000337

Data File: V6C2561.D
Report Date: 13-Sep-2002 12:51

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2561.D
Lab Smp Id: A1243-38A Client Smp ID: MW10
Inj Date : 31-AUG-2002 09:38
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-38A,MW10,V6B0830C,,A1243
Misc Info : 23-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 38
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

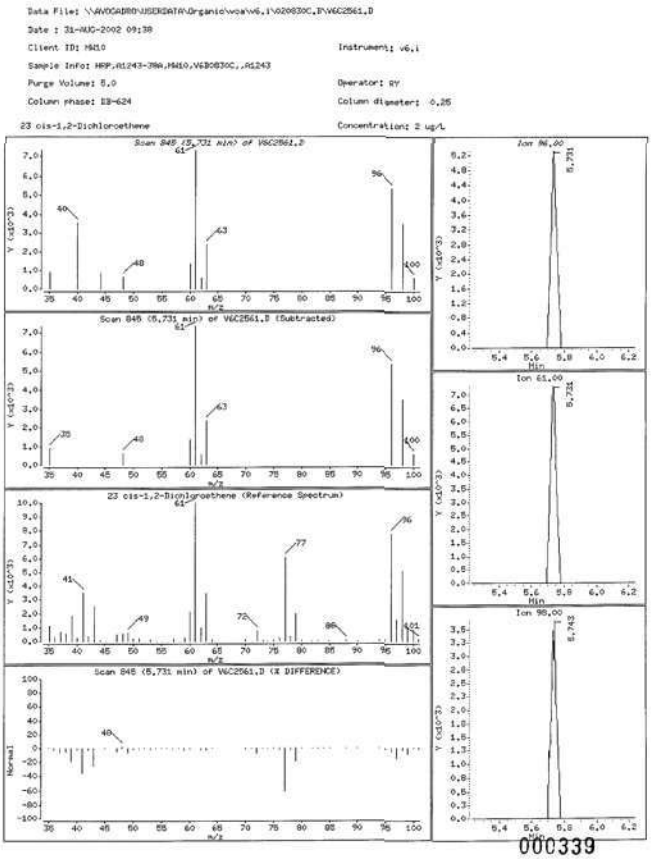
ISTD	RT	AREA	AMOUNT
* 38 Fluorobenzene	7.027	2657646	50.000

RT	AREA	CONCENTRATIONS ON-COL(ug/L)	CONCENTRATIONS FINAL(ug/L)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	QUANT CPND #
Ethane, 1,2-dichloro-1,1,2-trifluoro-					CAS #: 354-23-4		
3.596	665108	12.5131027		12	94	NBS75K.L	10049	38(L)

QC Flag Legend

L - Operator selected an alternate library search match.

000338



000339

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6_1\020830C,B\V6C2561.D

Date : 31-AUG-2002 09:38

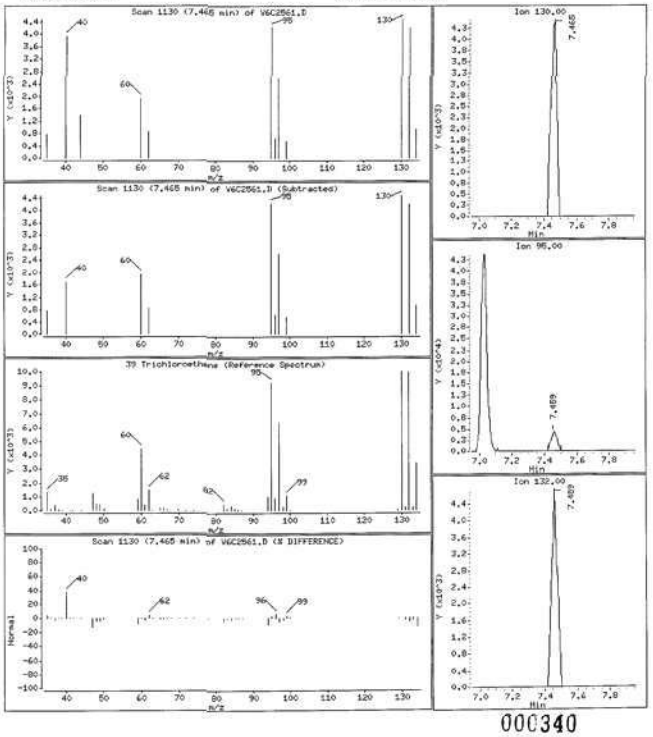
Client ID: M410 Instrument: v6.1

Sample Info: HRP,A1243-38A,M410,V6B0830C,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

39 Trichloroethene Concentration: 2 ug/L



000340

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6_1\020830C,B\V6C2561.D

Date : 31-AUG-2002 09:38

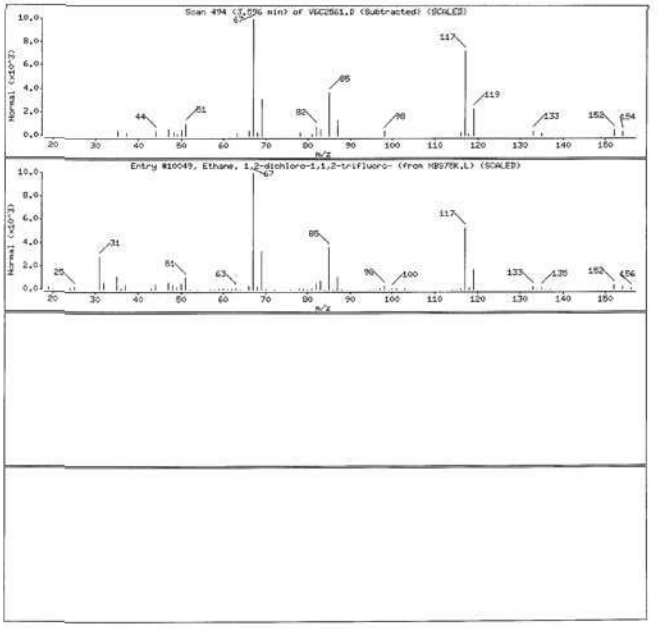
Client ID: M410 Instrument: v6.1

Sample Info: HRP,A1243-38A,M410,V6B0830C,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
~~Bromochloroethane~~ SBL 9/12/02						
Ethane, 1,2-dichloro-1,1,2-trifluoro- ✓	354-23-4	NBS75K.L	10049	94 ✓	C2HCl2F3	152



000341

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW14

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-34A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2557

Level: (low/med) LOW Date Received: 08/23/02

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	2	J
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	9	
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	18	
75-34-3	1,1-Dichloroethane	2	J
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	2	J
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

000342

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW14

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-34A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2557

Level: (low/med) LOW Date Received: 08/23/02

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000343

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW14

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-34A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2557

Level: (low/med) LOW Date Received: 08/23/02

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

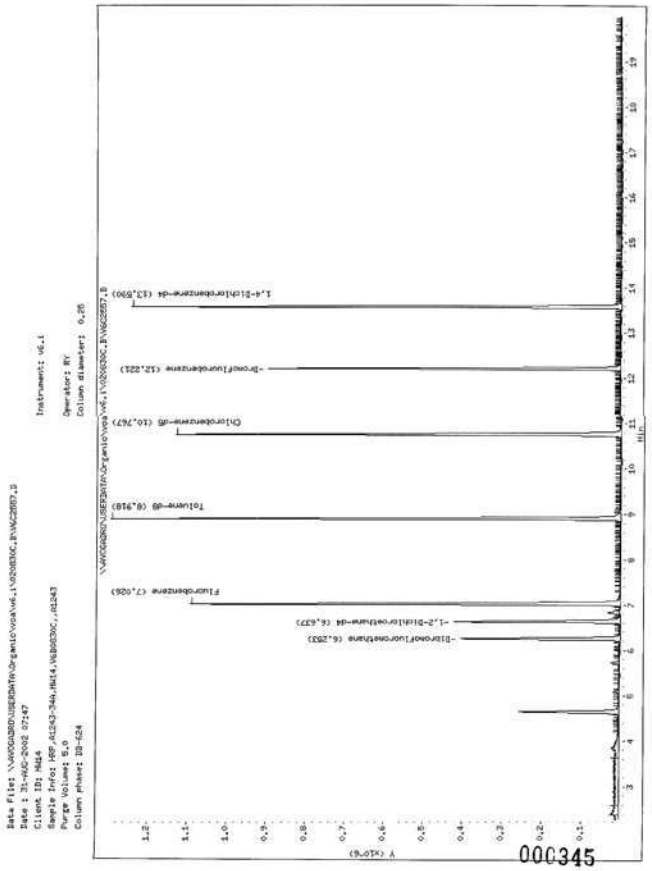
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

000344



000345

Data File: V6C2557.D
Report Date: 10-Sep-2002 17:22

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2557.D
Lab Smp Id: A1243-34A Client Smp ID: MW14
Inj Date : 31-AUG-2002 07:47
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-34A,MW14,V6B0830C,,A1243
Misc Info : 23-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D ✓
Als bottle: 34
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
	3 Vinyl Chloride	62	2.421	2.419	(0.345)	21545	2.06331	2	[a]
	9 Acetone	43	3.857	3.849	(0.549)	17483	8.70071	9	
	17 Methyl tert-butyl ether	73	4.647	4.645	(0.661)	270751	17.6407	18	
	18 1,1-Dichloroethane	63	5.104	5.096	(0.726)	18893	1.58441	2	[a]
	23 cis-1,2-Dichloroethene	96	5.736	5.734	(0.816)	12145	1.75617	2	[a]
B	30 Dibromofluoromethane	113	6.253	6.252	(0.890)	318826	51.4212	51	
B	35 1,2-Dichloroethane-d4	102	6.631	6.641	(0.944)	97874	50.8103	51	
*	38 Fluorobenzene	96	7.026	7.030	(1.000)	1267431	50.0000		
B	47 Toluene-d8	98	8.918	8.926	(0.828)	1190832	55.0525	55	
*	57 Chlorobenzene-d5	117	10.767	10.765	(1.000)	862785	50.0000		
B	68 Bromofluorobenzene	95	12.221	12.219	(1.135)	360569	46.8814	47	
*	81 1,4-Dichlorobenzene-d4	152	13.590	13.588	(1.000)	453921	50.0000		

Ya
09/11/02

000346

Data File: V6C2557.D
Report Date: 10-Sep-2002 17:22

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2557.D
Lab Smp Id: A1243-34A Client Smp ID: MW14
Inj Date : 31-AUG-2002 07:47
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-34A,MW14,V6B0830C,,A1243
Misc Info : 23-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 34
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

000348

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2557.D

Date : 31-AUG-2002 07:47

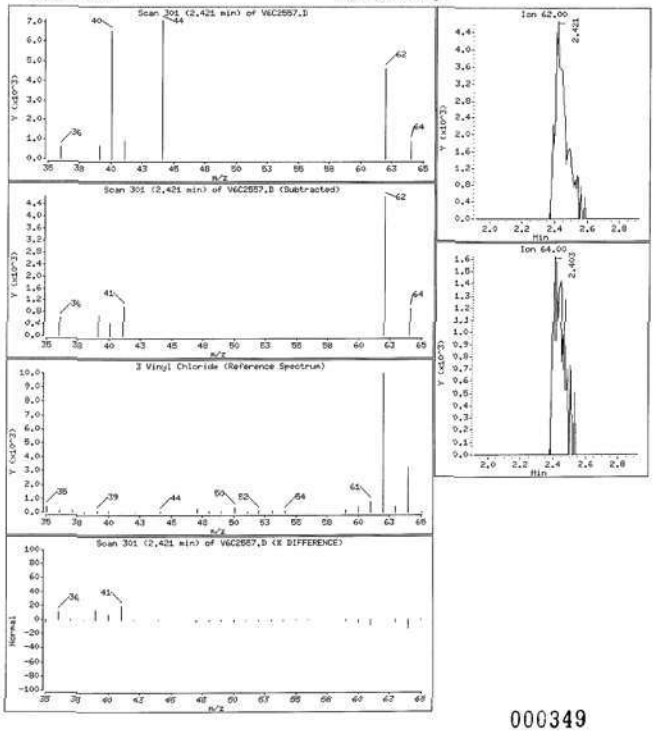
Client ID: M414 Instrument: v6.i

Sample Info: HRP,A1243-34A,M414,V630830C,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

3 Vinyl Chloride Concentration: 2 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2557.D

Date : 31-AUG-2002 07:47

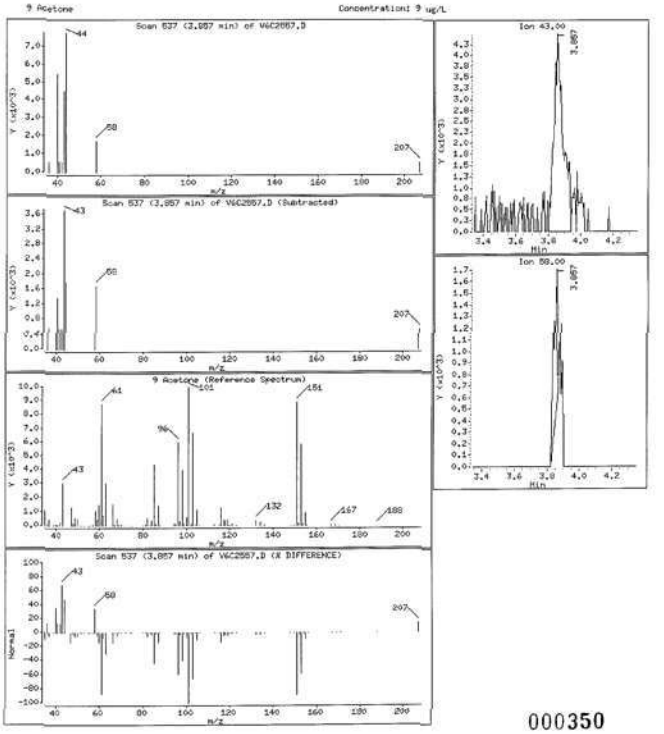
Client ID: M414 Instrument: v6.i

Sample Info: HRP,A1243-34A,M414,V630830C,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

9 Acetone Concentration: 9 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2557.D

Date : 31-AUG-2002 07:47

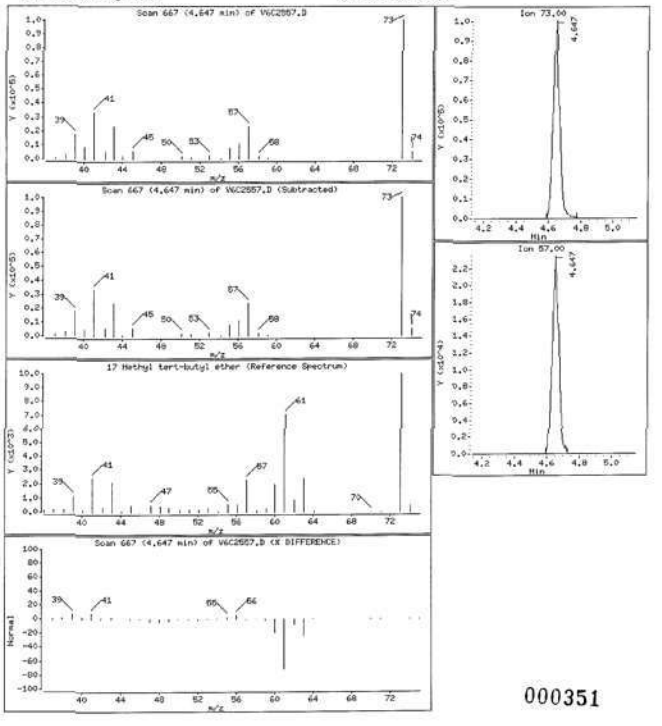
Client ID: M414 Instrument: v6.i

Sample Info: HRP,A1243-34A,M414,V630830C,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

17 Methyl tert-butyl ether Concentration: 10 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2557.D

Date : 31-AUG-2002 07:47

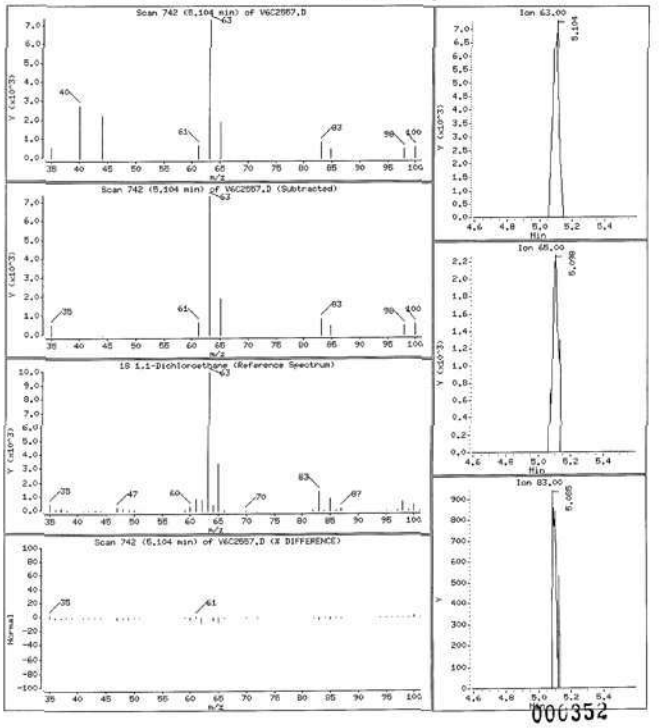
Client ID: M414 Instrument: v6.i

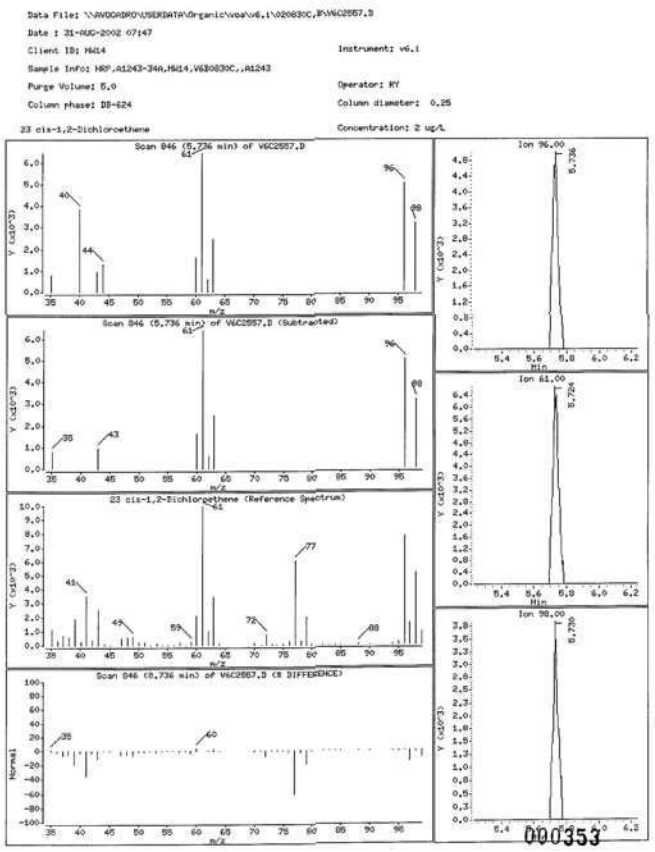
Sample Info: HRP,A1243-34A,M414,V630830C,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

18 1,1-Dichloroethane Concentration: 2 ug/L





000353

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW15

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-30A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2554

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW15

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-30A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2554

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW15

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-30A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2554

Level: (low/med) LOW Date Received: 08/22/02

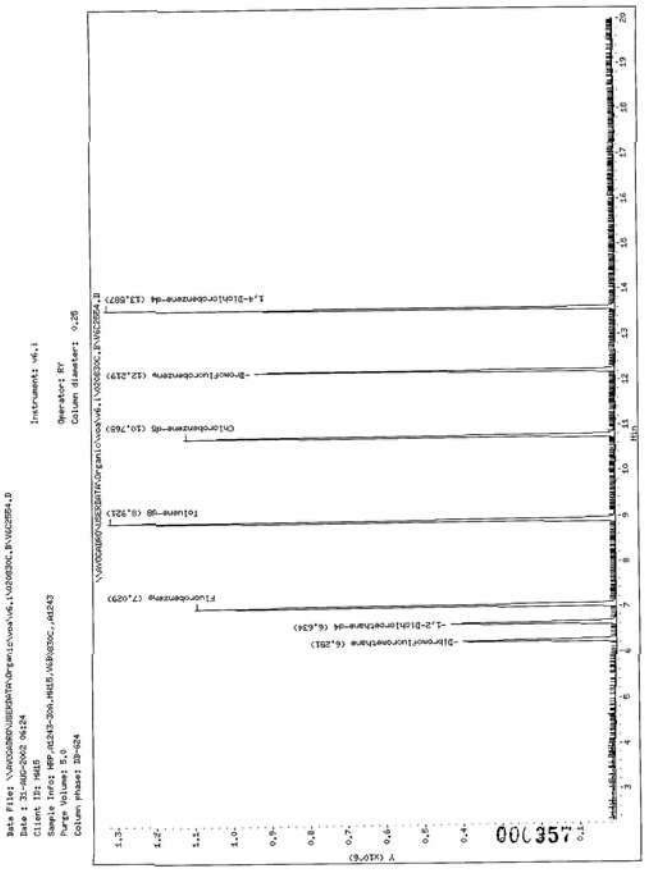
% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				



Data File: V6C2554.D
Report Date: 10-Sep-2002 17:22

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2554.D
Lab Smp Id: A1243-30A Client Smp ID: MW15
Inj Date : 31-AUG-2002 06:24
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-30A,MW15,V6B0830C,,A1243
Misc Info : 22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 31
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 30 Dibromofluoromethane	113	6.251	6.252	(0.889)	323821	51.5677	52
$ 35 1,2-Dichloroethane-d4	102	6.634	6.641	(0.944)	79730	51.1626	51
* 38 Fluorobenzene	96	7.029	7.030	(1.000)	1283607	50.0000	
$ 47 Toluene-d8	98	8.915	8.916	(0.828)	1238083	55.3862	55
* 57 Chlorobenzene-d5	117	10.771	10.765	(1.000)	891614	50.0000	
$ 68 Bromofluorobenzene	95	12.219	12.219	(1.134)	380743	47.8220	48
* 81 1,4-Dichlorobenzene-d4	152	13.587	13.588	(1.000)	466306	50.0000	

YL
09/11/02

000358

Data File: V6C2554.D
Report Date: 10-Sep-2002 17:22

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2554.D
Lab Smp Id: A1243-30A Client Smp ID: MW15
Inj Date : 31-AUG-2002 06:24
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-30A,MW15,V6B0830C,,A1243
Misc Info : 22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 31
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

000359

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW16

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-39A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2562
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	2	J
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	2	J
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

000360

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW16

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-39A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2562
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000361

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW16

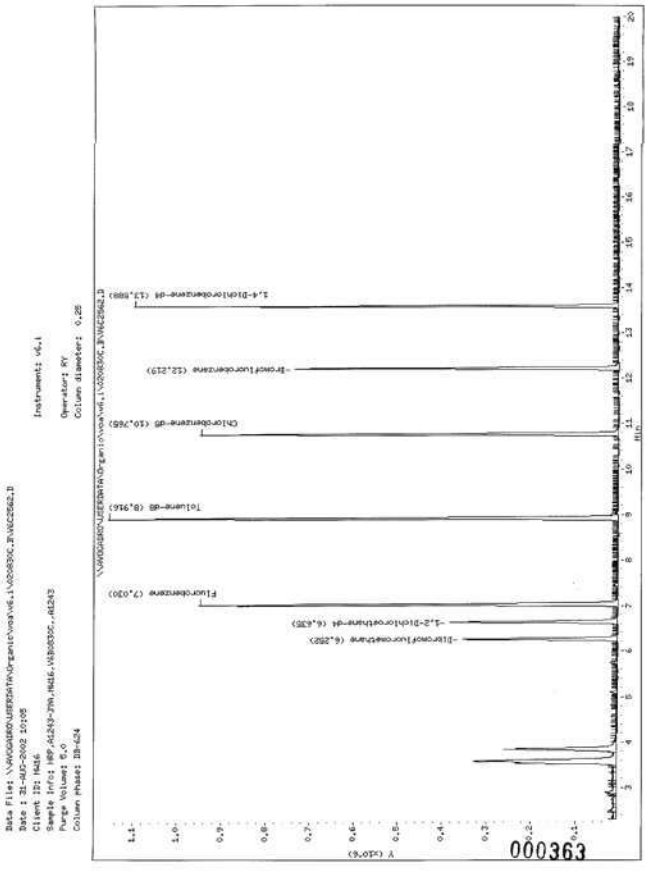
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-39A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2562
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	354-23-4	ETHANE, 1,2-DICHLORO-1,1,2-T	3.59	33	JN
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0

000362



000363

Data File: V6C2562.D
Report Date: 10-Sep-2002 17:23

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2562.D
Lab Smp Id: A1243-39A Client Smp ID: MW16
Inj Date : 31-AUG-2002 10:05
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-39A,MW16,V6B0830C,,A1243
Misc Info : 23-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 39
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
18 1,1-Dichloroethane	63	5.096	5.096	(0.725)	17589	1.70377	2(a)
23 cis-1,2-Dichloroethene	96	5.740	5.934	(0.817)	9548	1.59467	2(a)
S 30 Dibromofluoromethane	113	6.252	6.252	(6.889)	280255	52.2095	52
S 35 1,2-Dichloroethane-d4	102	6.641	6.641	(0.945)	68176	51.1783	51
* 38 Fluorobenzene	96	7.030	7.030	(1.000)	1097258	50.0000	
S 47 Toluene-d8	98	8.916	8.916	(0.828)	1057176	56.5695	56
* 57 Chlorobenzene-d5	117	10.765	10.765	(1.000)	745408	50.0000	
S 68 Bromofluorobenzene	95	12.219	12.219	(1.135)	303290	45.5655	46
* 81 1,4 Dichlorobenzene-d4	152	13.588	13.588	(1.000)	377420	50.0000	

YC
09/11/02

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

000364

Data File: V6C2562.D
Report Date: 13-Sep-2002 12:52

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2562.D
Lab Smp Id: A1243-39A Client Smp ID: MW16
Inj Date : 31-AUG-2002 10:05
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-39A,MW16,V6B0830C,,A1243
Misc Info : 23-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 39
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

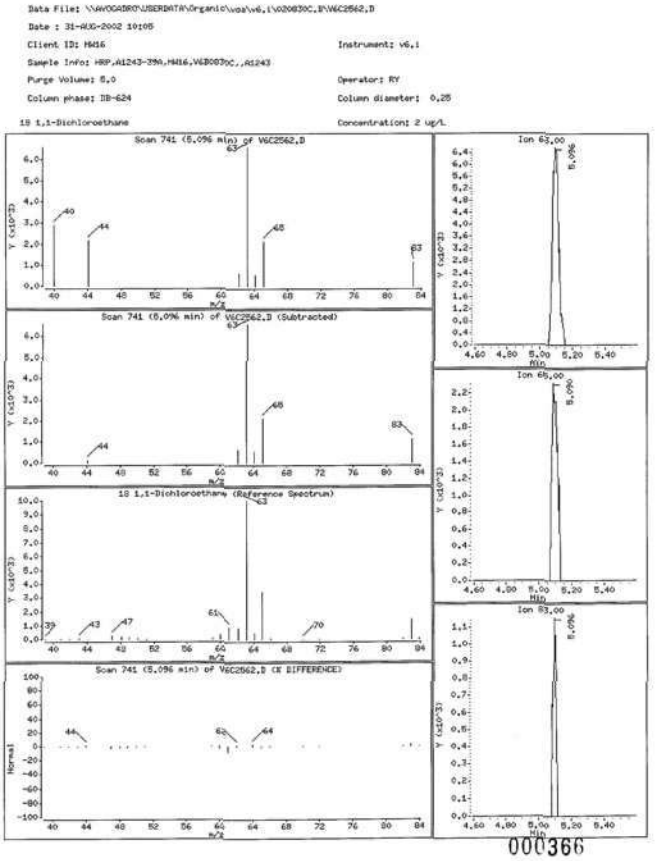
ISTD	RT	AREA	AMOUNT
* 38 Fluorobenzene	7.030	2388679	50.000

		CONCENTRATIONS			QUAL			
RT	AREA	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #	
Ethane, 1,2-dichloro-1,1,2-trifluoro-					CAS #: 354-23-4			
3.593	1557790	32.6077719		93	91 NBS75K.L	10049	38(L)	

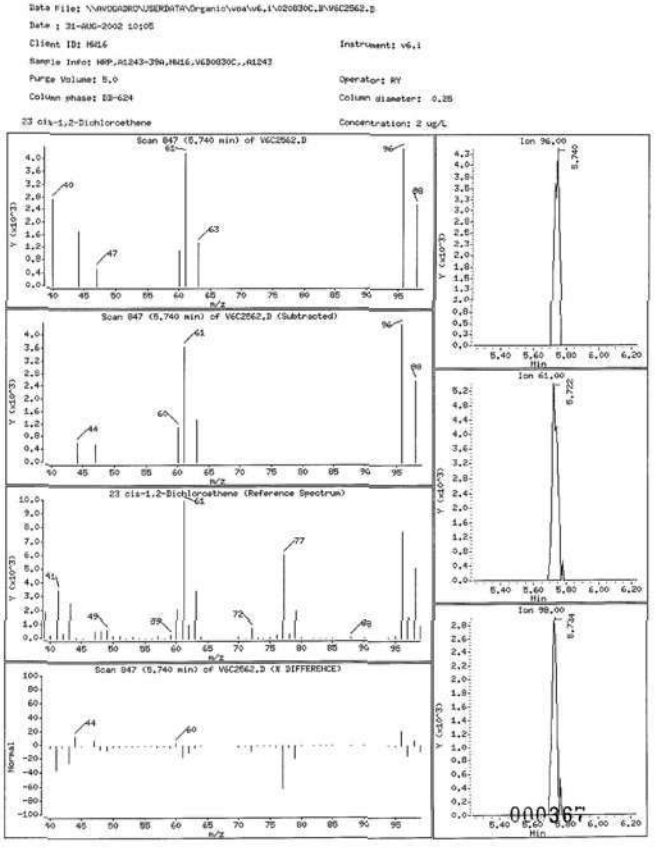
QC Flag Legend

L - Operator selected an alternate library search match.

000365



000366

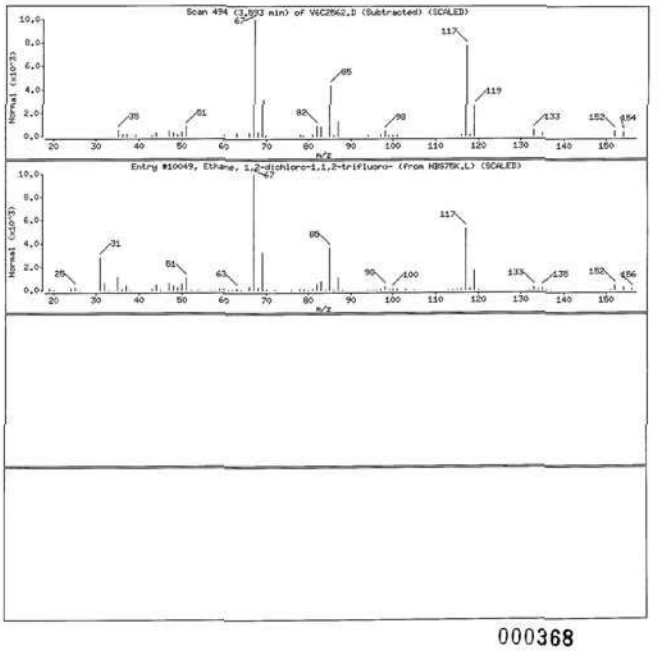


000367

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2562.D
Date : 31-AUG-2002 10:05
Client ID: MW16
Instrument: v6.i
Sample Info: HRP,A1243-39A,MW16,V6B0830C,,A1243
Purge Volume: 5.0
Operator: RY
Column phase: DB-624
Column diameter: 0.25

Library Search Compound Match — 9/10/02

	CAS Number	Library	Entry	Quality	Formula	Weight
Ethane, 1,2-dichloro-1,1,2-trifluoro-	354-23-4	NBS75K.L	10049	91	C2HCl2F3	152



000368

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW37

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-37A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2560
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW37

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-37A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2560
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	4	J
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

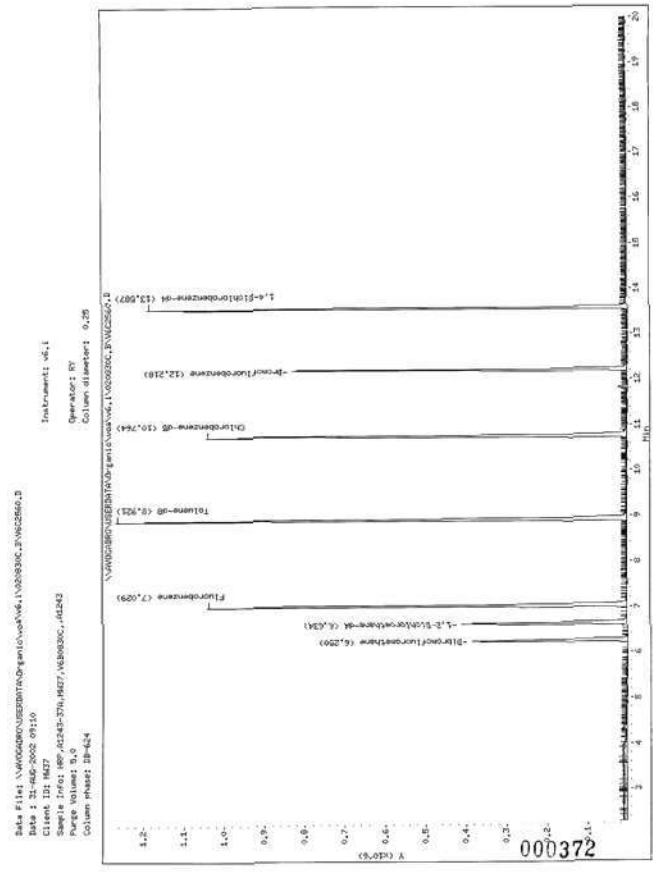
EPA SAMPLE NO.
MW37

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-37A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2560
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				



Data File: V6C2560.D
Report Date: 10-Sep-2002 17:22

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2560.D
Lab Smp Id: A1243-37A Client Smp ID: MW37
Inj Date : 31-AUG-2002 09:10
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-37A,MW37,V6B0830C,,A1243
Misc Info : 23-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 37
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$	10 Dibromofluoromethane	113	6.250	6.252	(0.889)	307621	51.9247	52
$	33 1,2-Dichloroethane-d4	102	6.666	6.643	(0.945)	75900	51.6247	52
*	38 Fluorobenzene	96	7.029	7.030	(1.000)	1211008	50.0000	
$	47 Toluene-d8	98	8.921	8.918	(0.829)	1153975	55.8012	56
*	57 Chlorobenzene-d5	117	10.764	10.765	(1.000)	826864	50.0000	
	65 Bromoform	173	11.823	11.818	(1.098)	14874	4.11844	4(a)
$	68 Bromofluorobenzene	95	12.218	12.219	(1.135)	361793	66.4038	66
*	81 1,4-Dichlorobenzene-d4	152	13.587	13.588	(1.000)	418811	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

9/11/02

Data File: V6C2560.D
Report Date: 10-Sep-2002 17:22

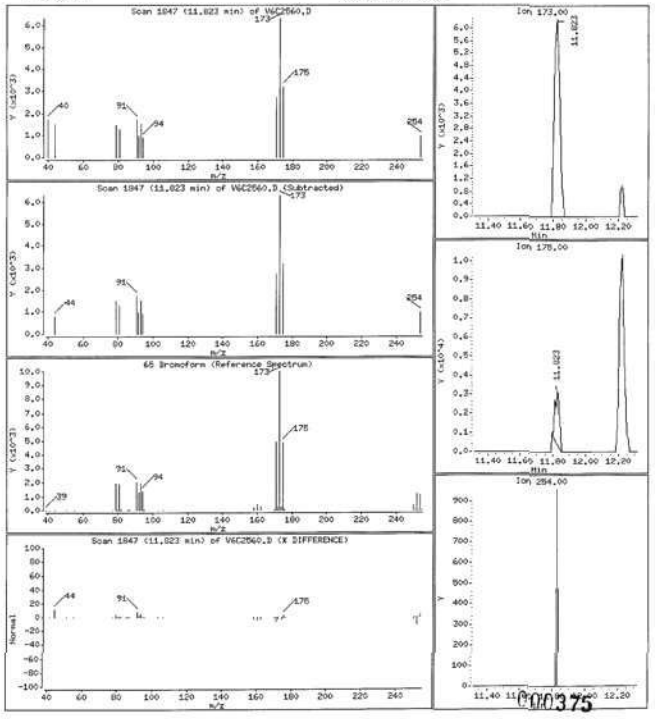
Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2560.D
Lab Smp Id: A1243-37A Client Smp ID: MW37
Inj Date : 31-AUG-2002 09:10
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-37A,MW37,V6B0830C,,A1243
Misc Info : 23-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 37
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2560.D
Date : 31-AUG-2002 09:10
Client ID: MW37 Instrument: v6.i
Sample Info: HRP,A1243-37A,MW37,V6B0830C,,A1243
Purge Volume: 5.0 Operator: RY
Column phase: DB-624 Column diameter: 0.25
65 Bromoform Concentration: 4 ug/L



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW44

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-35A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2558
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW44

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-35A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2558
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	2	J
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

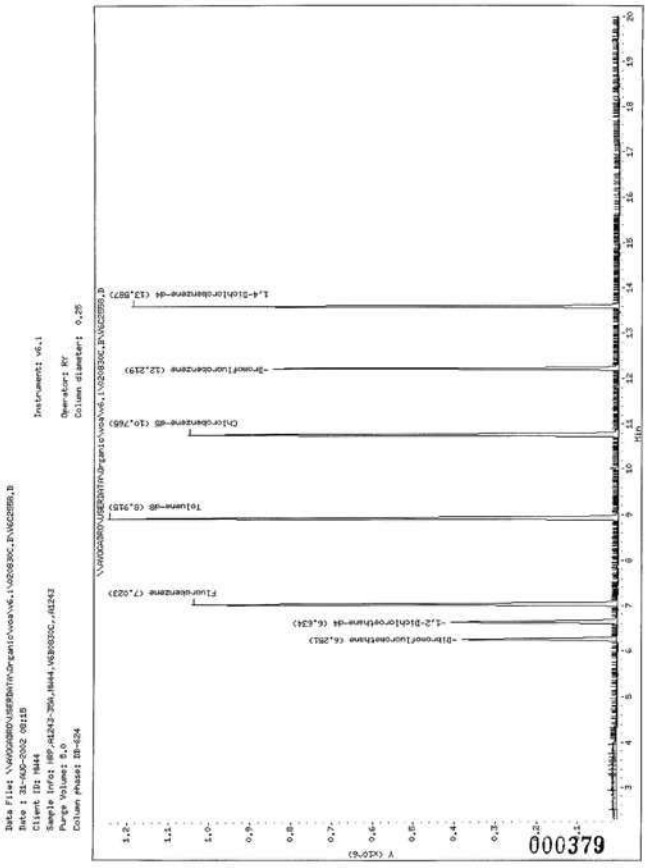
EPA SAMPLE NO.
MW44

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-35A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2558
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0



Data File: V6C2558.D
Report Date: 10-Sep-2002 17:22

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2558.D
Lab Smp Id: A1243-35A Client Smp ID: MW44
Inj Date : 31-AUG-2002 08:15
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-35A,MW44,V6B0830C,,A1243
Misc Info : 23-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 35
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
$ 30 Dibromofluoromethane	113	6.251	6.252	(0.890)	304873	51.1560	51
$ 35 1,2-Dichloroethane-d4	102	6.640	6.641	(0.945)	75499	51.0477	51
* 38 Fluorobenzene	96	7.023	7.030	(1.000)	1318226	50.0000	
$ 47 Toluene-d8	98	8.915	8.916	(0.828)	1153786	55.5718	56
* 57 Chlorobenzene-d5	117	10.765	10.765	(1.000)	828133	50.0000	
65 Bromoform	173	11.811	11.818	(1.097)	9279	2.55911	2(a)
$ 68 Bromofluorobenzene	95	12.219	12.219	(1.135)	345807	46.7636	47
* 81 1,4-Dichlorobenzene-d4	152	13.587	13.588	(1.000)	423125	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

09/11/02

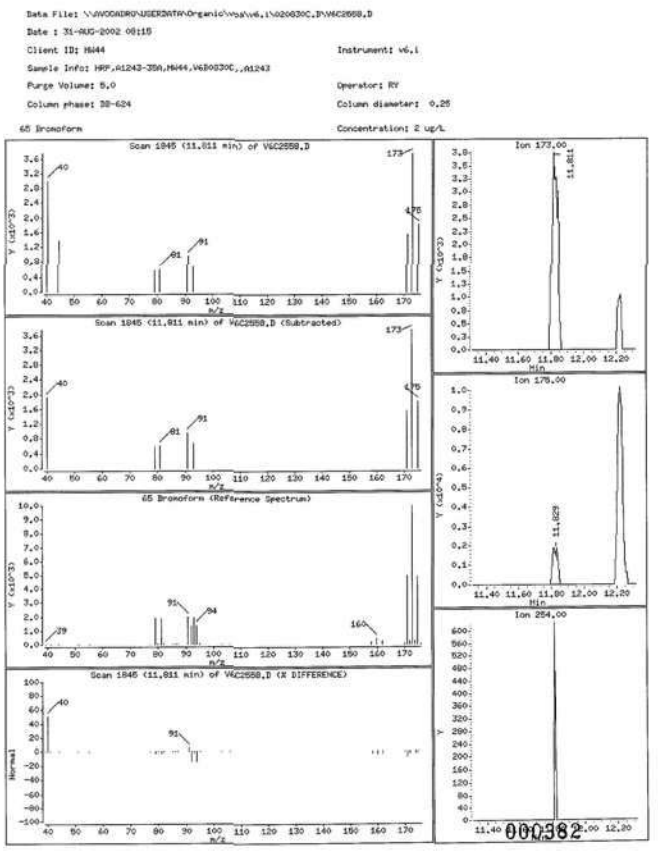
Data File: V6C2558.D
Report Date: 10-Sep-2002 17:22

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2558.D
Lab Smp Id: A1243-35A Client Smp ID: MW44
Inj Date : 31-AUG-2002 08:15
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-35A,MW44,V6B0830C,,A1243
Misc Info : 23-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 35
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW45

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-36A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2559
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW45

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-36A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2559
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	3	J
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW45

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-36A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2559

Level: (low/med) LOW Date Received: 08/23/02

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

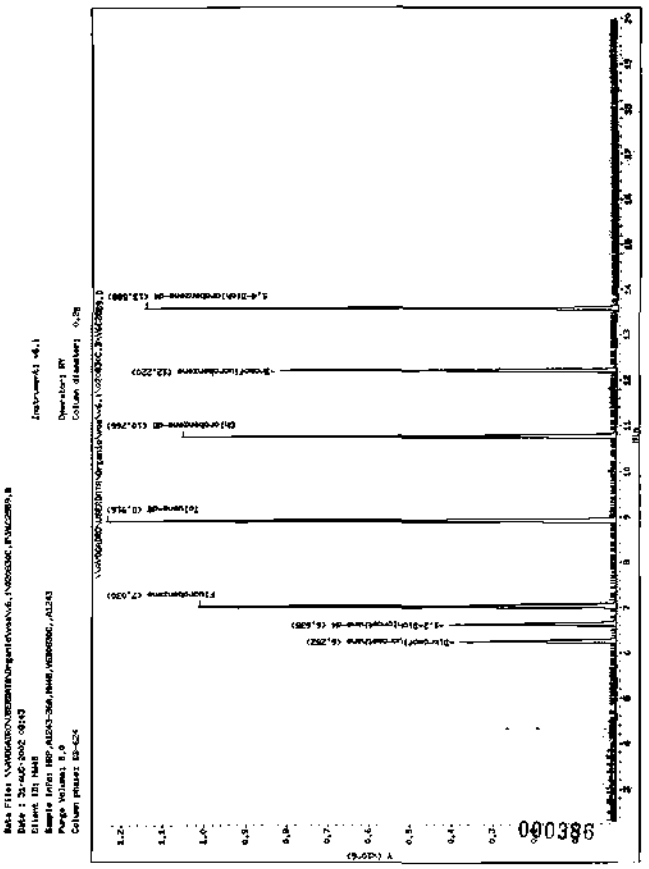
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0

000385



000386

Data File: V6C2559.D
Report Date: 10-Sep-2002 17:22

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2559.D
Lab Smp Id: A1243-36A Client Smp ID: MW45
Inj Date : 31-AUG-2002 08:43
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-36A,MW45,V6B0830C,,A1243
Misc Info : 23-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 36
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT STG MASS	RT	RRT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dibromofluoromethane	113	6.758	6.767	(0.890)	101591	52.6795	52
2 1,2-Dichloroethane-d4	102	6.661	6.661	(0.845)	77853	50.8527	51
* 3 Fluorobenzene	96	7.010	7.010	(1.000)	1174718	50.0000	
4 Toluene-d8	98	8.915	8.924	(0.828)	1119838	55.4641	55
* 5 Chlorobenzene-d5	117	10.766	10.765	(1.000)	805328	50.0000	
45 Bromoform	173	11.826	11.818	(1.098)	1840	3.25037	3 La
6 Bromofluorobenzene	95	13.930	13.918	(1.135)	334562	46.9243	46
* 7 1,4-Dichlorobenzene-d4	152	13.988	13.988	(1.000)	408898	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

000387

Data File: V6C2559.D
Report Date: 10-Sep-2002 17:22

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2559.D
Lab Smp Id: A1243-36A Client Smp ID: MW45
Inj Date : 31-AUG-2002 08:43
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-36A,MW45,V6B0830C,,A1243
Misc Info : 23-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 36
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

000388

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C,B\V6C2559.D

Date : 31-AUG-2002 00:43

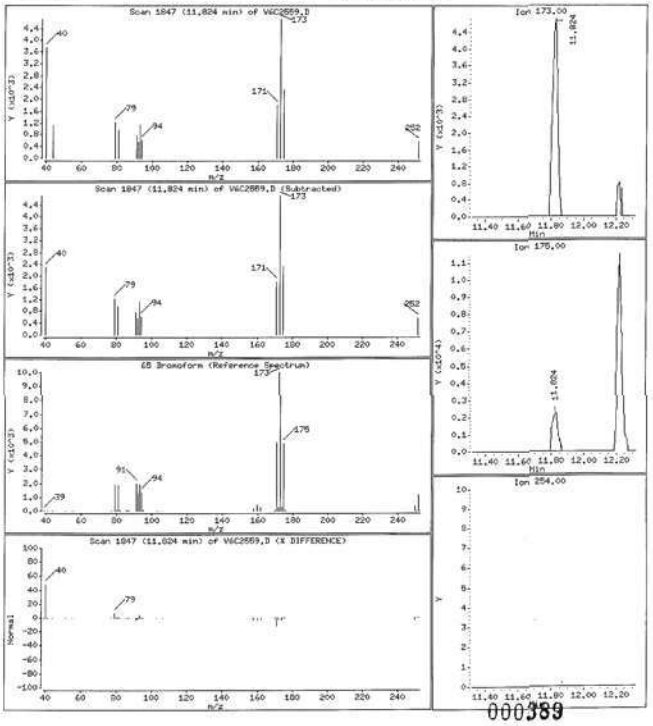
Client ID: MW45 Instrument: v6.i

Sample Info: HRP,A1243-36A,MW45,V630830C,,A1243

Purge Volume: 5.0 Operator: RY

Column phase: DB-624 Column diameter: 0.25

65 Bromoform Concentration: 3 ug/L



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TMW42

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-19A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2532

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TMW42

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-19A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2532

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	2	J
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
TMW42

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-19A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2532

Level: (low/med) LOW Date Received: 08/22/02

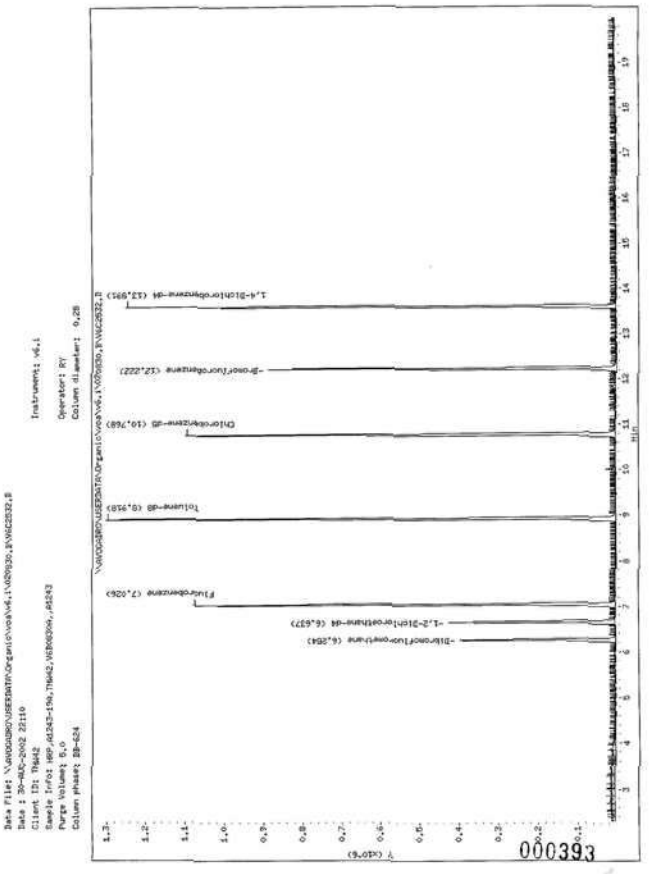
% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				



000393

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2532.D
Report Date: 10-Sep-2002 17:17

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2532.D
Lab Smp Id: A1243-19A Client Smp ID: TMW42
Inj Date : 30-AUG-2002 22:10
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-19A,TMW42,V6B0830A,,A1243
Misc Info : 22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\v68260.m
Meth Date : 10-Sep-2002 17:16 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
$ 10 Dibromofluoromethane	113	6.254	6.257	(0.890)	320634	52.7934	53
$ 35 1,2-Dichloroethane-d4	102	6.637	6.640	(0.945)	72382	48.0240	48
* 38 Fluorobenzene	96	7.027	7.029	(1.000)	1241466	50.0000	
$ 47 Toluene-d8	98	8.919	8.921	(0.826)	1200576	56.2655	56
* 57 Chlorobenzene-d5	117	10.768	10.771	(1.000)	851093	50.0000	
65 Bromoform	173	11.826	11.823	(1.098)	9104	2.44111	2(a)
$ 68 Bromofluorobenzene	95	12.223	12.218	(1.135)	358066	47.1147	47
* 81 1,4-Dichlorobenzene-d4	152	13.991	13.987	(1.000)	439929	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

Y/N
09/10/02

000394

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2532.D
Report Date: 10-Sep-2002 17:17

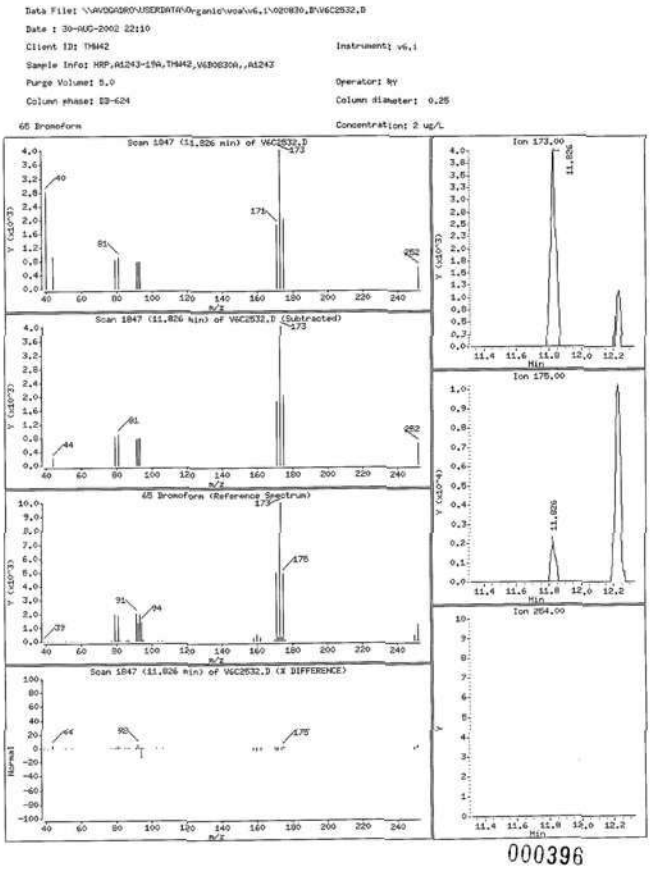
Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2532.D
Lab Smp Id: A1243-19A Client Smp ID: TMW42
Inj Date : 30-AUG-2002 22:10
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-19A,TMW42,V6B0830A,,A1243
Misc Info : 22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\v68260.m
Meth Date : 10-Sep-2002 17:16 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

000395



000396

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TMW43

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-21A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2547

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: not dec. ________ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: ________ (uL) Soil Aliquot Volume: ________ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TMW43

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-21A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2547

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: not dec. ________ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: ________ (uL) Soil Aliquot Volume: ________ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TMW43

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-21A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2547

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: not dec. ________ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

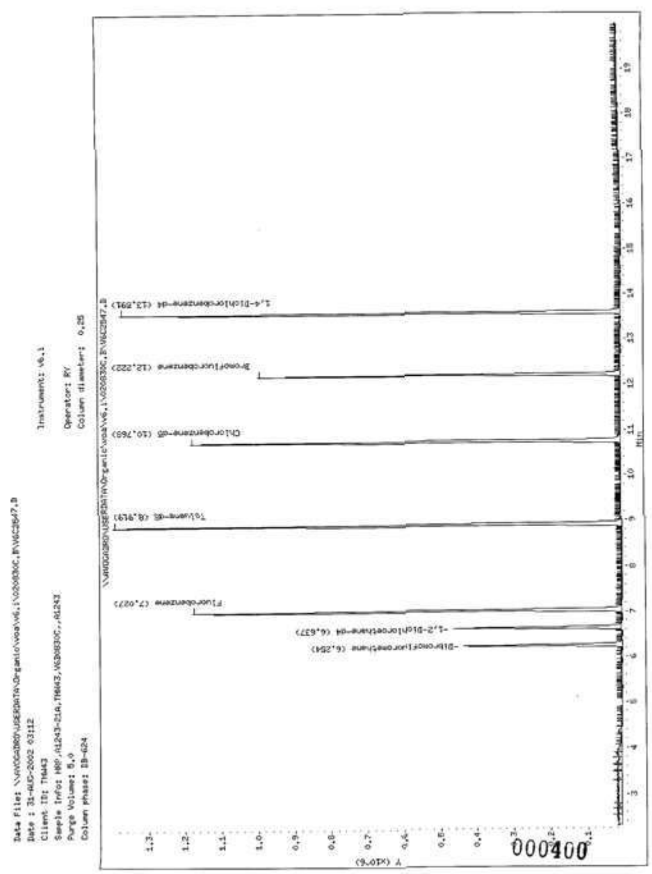
Soil Extract Volume: ________ (uL) Soil Aliquot Volume: ________ (uL)

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0



Data File: V6C2547.D
Report Date: 10-Sep-2002 17:22

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2547.D
Lab Smp Id: A1243-21A Client Smp ID: TMW43
Inj Date : 31-AUG-2002 03:12
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-21A,TMW43,V6B0830C,,A1243
Misc Info : 22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
$ 30 Dibromofluoromethane	113	6.254	6.252	(0.890)	342440	50.4694	50
$ 35 1,2-Dichloroethane-d4	102	6.444	6.441	(0.945)	85431	50.7261	51
* 38 Fluorobenzene	96	7.027	7.030	(1.000)	1386981	50.0000	
$ 47 Toluene-d8	98	8.919	8.916	(0.828)	1127251	54.7052	55
* 57 Chlorobenzene-d5	117	10.768	10.765	(1.000)	967729	50.0000	
$ 68 Bromofluorobenzene	95	12.216	12.219	(1.134)	439328	48.6415	49
* 81 1,4-Dichlorobenzene-d4	152	13.591	13.588	(1.000)	498551	50.0000	

09/11/02

Data File: V6C2547.D
Report Date: 10-Sep-2002 17:22

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2547.D
Lab Smp Id: A1243-21A Client Smp ID: TMW43
Inj Date : 31-AUG-2002 03:12
Operator : RY Inst ID: v6.i
Smp Info : HRP,A1243-21A,TMW43,V6B0830C,,A1243
Misc Info : 22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Instrument ID: V6 Calibration Date(s): 08/20/02 08/20/02

Heated Purge: (Y/N) N Calibration Time(s): 1010 1231

GC Column: DB-624 ID: 0.25 (mm)

LAB FILE ID: RRF5 =V6C2192 RRF20 =V6C2196
RRF50 =V6C2191 RRF100=V6C2195 RRF200=V6C2194

COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
Dichlorodifluoromethane	0.280	0.374	0.329	0.336	0.341	0.332	10.2
* Chloromethane	0.491	0.451	0.374	0.402	0.411	0.426	10.7*
Vinyl Chloride	0.435	0.442	0.372	0.401	0.410	0.412	6.8
Bromomethane	0.339	0.300	0.262	0.271	0.282	0.291	10.5
Chloroethane	0.242	0.247	0.223	0.232	0.244	0.238	4.0
Trichlorofluoromethane	0.379	0.556	0.484	0.536	0.509	0.493	14.1
* Acrolein	0.009	0.008	0.011	0.010	0.010	0.010	9.9*
1,1-Dichloroethene	0.341	0.357	0.304	0.340	0.340	0.336	5.8
Acetone	0.075	0.101	0.074	0.074	0.072	0.079	15.4
Iodomethane	0.506	0.508	0.431	0.484	0.481	0.482	6.4
Carbon Disulfide	0.785	0.967	0.799	0.886	0.881	0.864	8.5
* Acetonitrile	0.033	0.029	0.021	0.017	0.020	0.024	28.3*
Allyl Chloride	0.105	0.138	0.118	0.139	0.140	0.128	12.4
Methylene Chloride	0.279	0.283	0.238	0.269	0.275	0.269	6.7
* Acrylonitrile	0.076	0.072	0.067	0.072	0.071	0.072	4.4*
trans-1,2-Dichloroethene	0.283	0.300	0.252	0.292	0.298	0.285	6.8
Methyl tert-butyl ether	0.605	0.631	0.552	0.625	0.614	0.605	5.2
* *1,1-Dichloroethane*	*0.473*	*0.503*	*0.414*	*0.477*	*0.484*	*0.470*	*7.1**
Vinyl acetate	0.336	0.293	0.320	0.342	0.362	0.331	7.8
2-Chloro-1,3-Butadiene	0.332	0.425	0.366	0.428	0.430	0.396	11.3
2-Butanone	0.122	0.108	0.093	0.097	0.096	0.103	11.3
cis-1,2-Dichloroethene	0.265	0.276	0.244	0.286	0.293	0.273	7.1
2,2-Dichloropropane	0.263	0.287	0.229	0.264	0.263	0.261	7.9
* Propionitrile	0.030	0.029	0.027	0.029	0.028	0.029	3.6*
* Methacrylonitrile	0.133	0.138	0.119	0.128	0.116	0.127	7.3*
Bromochloromethane	0.142	0.138	0.121	0.138	0.141	0.136	6.5
Chloroform	0.474	0.478	0.402	0.463	0.464	0.456	6.8
* Tetrahydrofuran	0.029	0.026	0.024	0.026	0.026	0.026	7.0*
1,1,1-Trichloroethane	0.391	0.423	0.344	0.398	0.396	0.390	7.3
1,1-Dichloropropene	0.133	0.146	0.122	0.146	0.147	0.139	7.9
Carbon Tetrachloride	0.389	0.423	0.358	0.412	0.413	0.399	6.5
* Isobutyl Alcohol	0.007	0.007	0.007	0.008	0.008	0.007	4.6*
1,2-Dichloroethane	0.344	0.355	0.299	0.334	0.336	0.334	6.3
Benzene	1.077	1.122	0.951	1.080	1.056	1.057	6.1
Trichloroethene	0.287	0.304	0.258	0.303	0.308	0.292	7.0
1,2-Dichloropropane	0.276	0.270	0.228	0.265	0.269	0.262	7.2
* Methyl Methacrylate	0.126	0.140	0.134	0.154	0.154	0.142	8.5*

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM VI VOA OLM03.0

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Instrument ID: V6 Calibration Date(s): 08/20/02 08/20/02

Heated Purge: (Y/N) N Calibration Time(s): 1010 1231

GC Column: DB-624 ID: 0.25 (mm)

LAB FILE ID: RRF5 =V6C2192 RRF20 =V6C2196
RRF50 =V6C2191 RRF100=V6C2195 RRF200=V6C2194

COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
Dibromomethane	0.153	0.154	0.136	0.152	0.152	0.149	5.1
Bromodichloromethane	0.344	0.345	0.303	0.346	0.352	0.338	5.8
* 2-Chloroethyl vinyl ether	0.084	0.110	0.113	0.123	0.134	0.113	16.4*
cis-1,3-Dichloropropene	0.375	0.409	0.360	0.419	0.424	0.397	7.1
4-Methyl-2-pentanone	0.182	0.188	0.178	0.192	0.194	0.187	3.7
Toluene	1.064	1.189	1.024	1.137	1.081	1.099	5.9
trans-1,3-Dichloropropene	0.332	0.358	0.325	0.373	0.384	0.354	7.2
Ethyl Methacrylate	0.203	0.259	0.248	0.289	0.292	0.258	14.1
1,1,2-Trichloroethane	0.219	0.216	0.190	0.214	0.217	0.211	5.8
1,3-Dichloropropane	0.512	0.507	0.437	0.488	0.483	0.485	6.1
Tetrachloroethene	0.355	0.384	0.315	0.358	0.353	0.353	7.0
2-Hexanone	0.151	0.163	0.157	0.171	0.166	0.162	5.1
Dibromochloromethane	0.345	0.341	0.305	0.342	0.341	0.335	5.0
1,2-Dibromoethane	0.288	0.289	0.254	0.286	0.277	0.279	5.4
* Chlorobenzene	1.010	1.034	0.878	0.966	0.931	0.964	6.5*
1,1,1,2-Tetrachloroethane	0.365	0.367	0.320	0.362	0.359	0.355	5.5
Ethylbenzene	0.534	0.575	0.499	0.562	0.563	0.547	5.6
Xylene (Total)	*0.602*	*0.690*	*0.599*	*0.680*	*0.672*	*0.649*	*6.9*
Styrene	0.896	1.062	0.953	1.068	1.035	1.003	7.5
* Bromoform	0.219	0.212	0.209	0.228	0.227	0.219	3.8*
Isopropylbenzene	1.349	1.716	1.491	1.629	1.479	1.533	9.3
trans-1,4-Dichloro-2-butene	0.086	0.090	0.096	0.115	0.114	0.100	13.4
* 1,1,2,2-Tetrachloroethane	0.670	0.631	0.555	0.612	0.576	0.609	7.5*
Bromobenzene	0.706	0.793	0.684	0.801	0.762	0.749	6.9
1,2,3-Trichloropropane	0.760	0.791	0.714	0.775	0.729	0.754	4.2
n-Propylbenzene	0.748	0.925	0.791	0.926	0.910	0.860	9.8
2-Chlorotoluene	0.684	0.771	0.659	0.760	0.738	0.722	6.7
1,3,5-Trimethylbenzene	2.150	2.635	2.208	2.467	2.220	2.336	8.8
4-Chlorotoluene	0.739	0.796	0.675	0.783	0.768	0.752	6.4
tert-Butylbenzene	2.330	3.010	2.567	2.903	2.701	2.702	10.0
1,2,4-Trimethylbenzene	2.174	2.659	2.249	2.466	2.256	2.361	8.4
sec-Butylbenzene	2.839	3.576	3.008	3.268	2.824	3.103	10.3
4-Isopropyltoluene	2.350	2.941	2.493	2.741	2.464	2.598	9.2
1,3-Dichlorobenzene	1.460	1.573	1.320	1.510	1.456	1.464	6.4
1,4-Dichlorobenzene	1.608	1.625	1.343	1.482	1.432	1.498	8.0
n-Butylbenzene	2.136	2.804	2.382	2.538	2.281	2.428	10.6
1,2-Dichlorobenzene	1.369	1.462	1.258	1.399	1.352	1.368	5.4

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM VI VOA OLM03.0

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Instrument ID: V6 Calibration Date(s): 08/20/02 08/20/02

Heated Purge: (Y/N) N Calibration Time(s): 1010 1231

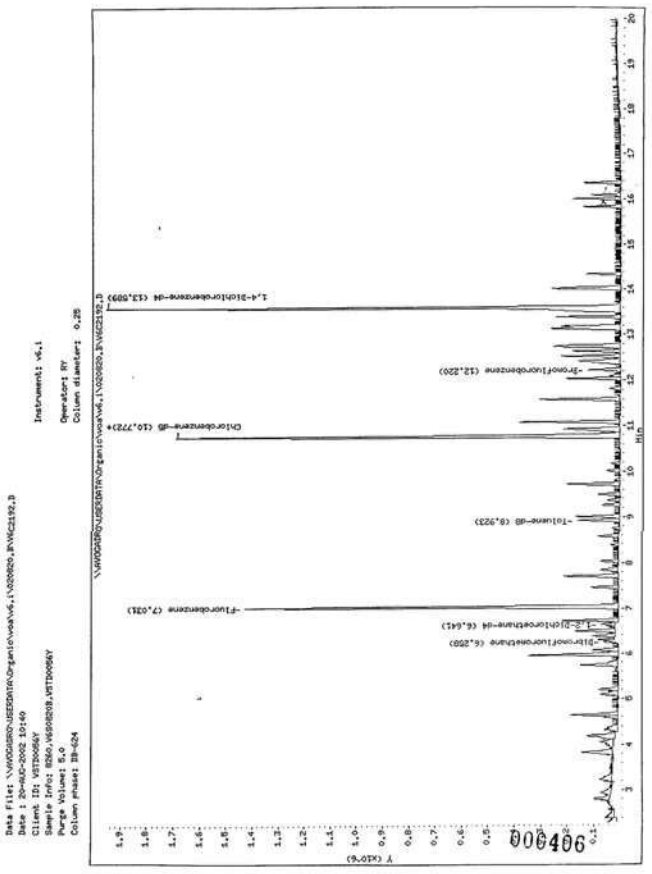
GC Column: DB-624 ID: 0.25 (mm)

LAB FILE ID: RRF5 =V6C2192 RRF20 =V6C2196
RRF50 =V6C2191 RRF100=V6C2195 RRF200=V6C2194

COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
Hexachloroethane	0.436	0.484	0.437	0.487	0.493	0.467	6.1
1,2-Dibromo-3-chloropropane	0.109	0.102	0.097	0.101	0.099	0.102	4.4
1,2,4-Trichlorobenzene	0.885	1.008	0.908	1.036	1.046	0.977	7.7
Hexachlorobutadiene	0.631	0.682	0.560	0.624	0.648	0.629	7.1
Naphthalene	1.667	1.900	1.792	1.944	1.842	1.829	5.9
1,2,3-Trichlorobenzene	0.879	0.932	0.837	0.916	0.909	0.895	4.2
1,1,2-Trichlo-1,2,2-trifluor	0.246	0.328	0.288	0.292	0.294	0.290	10.1
Methyl Acetate	0.124	0.138	0.113	0.128	0.128	0.126	7.1
Cyclohexane	0.370	0.504	0.433	0.476	0.475	0.452	11.6
Methylcyclohexane	0.357	0.518	0.462	0.509	0.505	0.470	14.2
1-Chlorohexane	0.523	0.558	0.482	0.549	0.531	0.529	5.6
Dibromofluoromethane	0.248	0.249	0.240	0.242	0.244	0.245	1.5
1,2-Dichloroethane-d4	0.058	0.064	0.060	0.059	0.062	0.061	3.9
Toluene-d8	1.255	1.328	1.313	1.237	1.135	1.254	6.1
Bromofluorobenzene	0.446	0.450	0.446	0.450	0.441	0.447	0.8

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM VI VOA OLM03.0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020820.B\V6C2192.D
Report Date: 20-Aug-2002 17:05

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020820.B\V6C2192.D
Lab Smp Id: V6S0820B Client Smp ID: VSTD0056Y
Inj Date : 20-AUG-2002 10:40
Operator : RY Inst ID: v6.i
Smp Info : 8260,V6S0820B,VSTD0056Y
Misc Info : ,1,1
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020820.B\v68260.m
Meth Date : 20-Aug-2002 17:02 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET8

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
1 Dichlorodifluoromethane	85	2.036	2.042	(0.290)	49513	5.00000	4	(a)
2 Chloromethane	50	2.267	2.279	(0.322)	86737	5.00000	6	
3 Vinyl Chloride	62	2.419	2.419	(0.344)	76946	5.00000	5	
4 Bromomethane	94	2.815	2.778	(0.400)	55951	5.00000	6	
5 Chloroethane	64	2.942	2.936	(0.419)	42874	5.00000	5	
6 Trichlorofluoromethane	101	3.241	3.234	(0.461)	67006	5.00000	4	(a)
7 Acrolein	56	3.685	3.678	(0.524)	7887	25.0000	23	(a)
8 1,1-Dichloroethene	96	3.825	3.830	(0.544)	60382	5.00000	5	
9 Acetone	43	3.861	3.842	(0.549)	13205	5.00000	5	
111 1,1,2-Trichlo-1,2,2-trifluoro	101	3.855	3.842	(0.548)	43482	5.00000	4	(a)
10 Iodomethane	142	4.013	4.013	(0.571)	89561	5.00000	5	
11 Carbon Disulfide	76	4.074	4.073	(0.579)	138863	5.00000	4	(a)
12 Acetonitrile	40	4.147	4.146	(0.590)	58501	50.0000	69	
13 Allyl Chloride	76	4.196	4.195	(0.597)	18513	5.00000	4	(a)
14 Methylene Chloride	84	4.330	4.329	(0.616)	49361	5.00000	5	
15 Acrylonitrile	53	4.591	4.578	(0.653)	66889	25.0000	26	

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020820.B\V6C2192.D
Report Date: 20-Aug-2002 17:05

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
16 trans-1,2-Dichloroethene	96	4.646	4.639	(0.661)	50046	5.00000	5	
112 Methyl Acetate	43	4.652	4.645	(0.662)	21974	5.00000	5	
17 Methyl tert-butyl ether	73	4.652	4.645	(0.662)	107088	5.00000	5	
18 1,1-Dichloroethane	63	5.096	5.095	(0.725)	83675	5.00000	5	
19 Vinyl acetate	43	5.145	5.138	(0.732)	59434	5.00000	5	
20 2-Chloro-1,3-Butadiene	53	5.199	5.205	(0.740)	58765	5.00000	4	(a)
33 cis-1,2-Dichloroethene	96	5.741	5.734	(0.817)	46956	5.00000	5	
34 2,2-Dichloropropane	77	5.741	5.734	(0.817)	46593	5.00000	5	
22 2-Butanone	43	5.747	5.734	(0.817)	21511	5.00000	6	
25 Propionitrile	54	5.796	5.783	(0.824)	52488	50.0000	52	
26 Methacrylonitrile	41	5.966	5.959	(0.849)	235442	50.0000	52	
27 Bromochloromethane	128	6.003	5.996	(0.854)	25206	5.00000	5	
29 Tetrahydrofuran	72	6.075	6.063	(0.864)	5178	5.00000	6	
28 Chloroform	83	6.082	6.075	(0.865)	83905	5.00000	5	
S 30 Dibromofluoromethane	113	6.258	6.251	(0.890)	43801	5.00000	5	
31 1,1,1-Trichloroethane	97	6.313	6.306	(0.898)	69109	5.00000	5	
113 Cyclohexane	56	6.393	6.391	(0.909)	65447	5.00000	4	(a)
32 1,1-Dichloropropene	110	6.495	6.489	(0.924)	23533	5.00000	5	
33 Carbon Tetrachloride	117	6.507	6.501	(0.926)	68752	5.00000	5	
34 Isobutyl Alcohol	43	6.574	6.568	(0.935)	24359	100.000	94	(a)
S 35 1,2-Dichloroethane-d4	102	6.641	6.641	(0.945)	10337	5.00000	5	
37 Benzene	78	6.726	6.726	(0.957)	190559	5.00000	5	
36 1,2-Dichloroethane	62	6.726	6.726	(0.957)	60892	5.00000	5	
* 38 Fluorobenzene	96	7.031	7.030	(1.000)	1768655	50.0000		
39 Trichloroethene	130	7.456	7.462	(1.061)	50810	5.00000	5	
M 21 1,2-Dichloroethene (Total)	96				97000	10.0000	10	
114 Methylcyclohexane	83	7.712	7.705	(1.097)	63135	5.00000	4	(a)
40 1,2-Dichloropropane	63	7.718	7.717	(1.098)	48811	5.00000	5	
42 Dibromomethane	93	7.858	7.857	(1.118)	27047	5.00000	5	
41 Methyl Methacrylate	69	7.834	7.827	(1.114)	22363	5.00000	4	(a)
43 Bromodichloromethane	83	8.028	8.028	(1.142)	60824	5.00000	5	
44 2-Chloroethyl vinyl ether	63	8.381	8.374	(1.192)	14913	5.00000	4	(a)
45 cis-1,3-Dichloropropene	75	8.570	8.569	(1.219)	66336	5.00000	5	
46 4-Methyl-2-pentanone	43	8.746	8.745	(1.244)	32107	5.00000	5	
S 47 Toluene-d8	98	8.922	8.922	(0.826)	162604	5.00000	5	
48 Toluene	91	9.002	9.007	(1.280)	188253	5.00000	5	
49 trans-1,3-Dichloropropene	75	9.257	9.257	(1.317)	58823	5.00000	5	
50 Ethyl Methacrylate	69	9.367	9.360	(1.332)	35857	5.00000	4	(a)
51 1,1,2-Trichloroethane	97	9.494	9.494	(1.350)	38804	5.00000	5	
53 Tetrachloroethene	164	9.718	9.713	(0.902)	46003	5.00000	5	
52 1,3-Dichloropropane	76	9.719	9.713	(0.902)	66334	5.00000	5	
54 2-Hexanone	43	9.817	9.804	(0.911)	19510	5.00000	5	
55 Dibromochloromethane	129	10.011	10.017	(0.929)	44707	5.00000	5	
56 1,2-Dibromoethane	107	10.182	10.175	(0.945)	37317	5.00000	5	(T)
* 57 Chlorobenzene-d5	117	10.772	10.765	(1.000)	1295361	50.0000		
115 1-Chlorohexane	91	10.766	10.765	(0.999)	67759	5.00000	5	
58 Chlorobenzene	112	10.808	10.802	(1.003)	130894	5.00000	5	

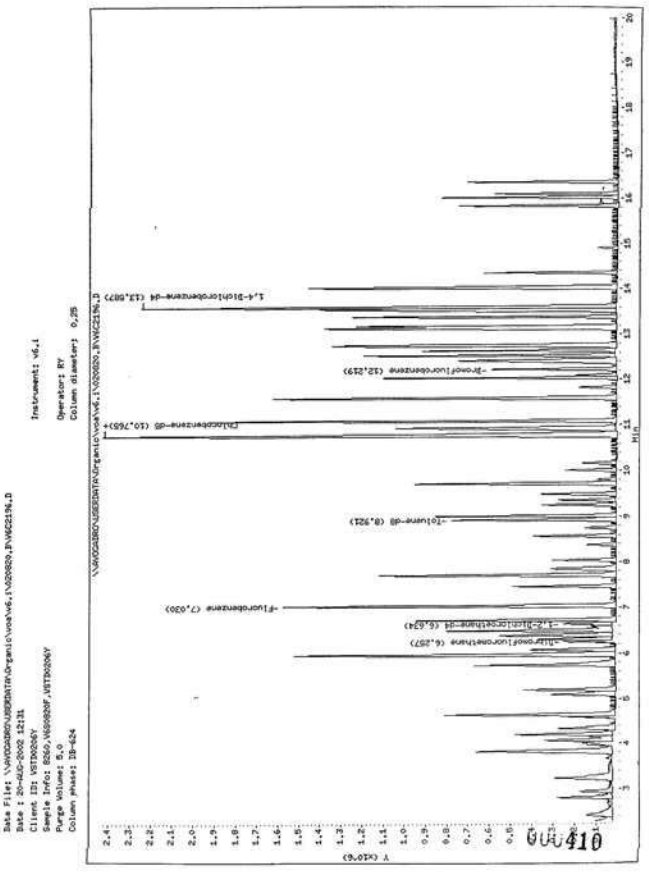
Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020820.B\V6C2192.D
Report Date: 20-Aug-2002 17:05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
	59 1,1,1,2-Tetrachloroethane	131	10.900	10.905	(1.012)	47233	5.00000	5	
	60 Ethylbenzene	106	10.942	10.942	(1.016)	69220	5.00000	5	
	61 m,p-Xylene	106	11.088	11.088	(1.029)	160291	10.0000	9	
	62 o-Xylene	106	11.587	11.580	(1.076)	73584	5.00000	4(a)	
	64 Styrene	104	11.599	11.593	(1.077)	116121	5.00000	4(a)	
	65 Bromoform	173	11.824	11.824	(1.098)	28398	5.00000	5	
	66 Isopropylbenzene	105	12.037	12.037	(1.117)	174724	5.00000	4(a)	
S	68 Bromofluorobenzene	95	12.220	12.219	(1.134)	57754	5.00000	5	A
	69 1,1,2,2-Tetrachloroethane	83	12.372	12.377	(0.910)	50256	5.00000	6	
	70 Bromobenzene	156	12.408	12.414	(0.913)	52959	5.00000	5	
	67 trans-1,4-Dichloro-2-butene	75	12.098	12.091	(1.123)	11152	5.00000	4(a)	
	71 1,2,3-Trichloropropane	75	12.433	12.432	(0.915)	57003	5.00000	5	
	72 n-Propylbenzene	120	12.530	12.529	(0.922)	56078	5.00000	4(a)	
	73 2-Chlorotoluene	126	12.640	12.645	(0.930)	51280	5.00000	5	
	74 1,3,5-Trimethylbenzene	105	12.737	12.736	(0.937)	161148	5.00000	5	
	75 4-Chlorotoluene	126	12.773	12.767	(0.940)	55431	5.00000	5	
	76 tert-Butylbenzene	119	13.132	13.126	(0.966)	174701	5.00000	4(a)	
	77 1,2,4-Trimethylbenzene	105	13.181	13.180	(0.970)	162940	5.00000	5	
	78 sec-Butylbenzene	105	13.382	13.381	(0.985)	212812	5.00000	4(a)	
	80 1,3-Dichlorobenzene	146	13.516	13.515	(0.995)	109456	5.00000	5	
	79 4-Isopropyltoluene	119	13.546	13.551	(0.997)	176160	5.00000	4(a)	
*	81 1,4-Dichlorobenzene-d4	152	13.589	13.588	(1.000)	749630	50.0000		
	82 1,4-Dichlorobenzene	146	13.619	13.618	(1.002)	120573	5.00000	5	
M	63 Xylene (Total)	106				233856	15.0000	14	
	84 1,2-Dichlorobenzene	146	14.045	14.044	(1.034)	102644	5.00000	5	
	83 n-Butylbenzene	91	14.020	14.014	(1.032)	160107	5.00000	4(a)	
	85 Hexachloroethane	117	14.349	14.348	(1.056)	32661	5.00000	5	
	86 1,2-Dibromo-3-chloropropane	75	14.909	14.902	(1.097)	8158	5.00000	5	
	87 1,2,4-Trichlorobenzene	180	15.827	15.827	(1.165)	66330	5.00000	4(a)	
	88 Hexachlorobutadiene	225	16.016	16.015	(1.179)	47297	5.00000	5	
	89 Naphthalene	128	16.095	16.094	(1.184)	124985	5.00000	4(a)	
	90 1,2,3-Trichlorobenzene	180	16.357	16.356	(1.204)	65902	5.00000	5	

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

RY
8/22/02



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020820.B\V6C2196.D
Report Date: 20-Aug-2002 13:21

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020820.B\V6C2196.D
Lab Smp Id: V6S0820F Client Smp ID: VSTD0206Y
Inj Date : 20-AUG-2002 12:31
Operator : RY Inst ID: v6.i
Smp Info : 8260,V6S0820F,VSTD0206Y
Misc Info : ,1,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020820.B\v68260.m
Meth Date : 20-Aug-2002 13:21 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET8

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
	1 Dichlorodifluoromethane	85	2.041	2.043	(0.290)	293286	20.0000	22	
	2 Chloromethane	50	2.272	2.279	(0.323)	353244	20.0000	21	
	3 Vinyl Chloride	62	2.418	2.419	(0.344)	346253	20.0000	21	
	4 Bromomethane	94	2.801	2.778	(0.399)	234910	20.0000	21	
	5 Chloroethane	64	2.941	2.936	(0.418)	193444	20.0000	21	
	6 Trichlorofluoromethane	101	3.233	3.234	(0.460)	436089	20.0000	22	
	7 Acrolein	56	3.678	3.678	(0.523)	33497	100.000	87	
	8 1,1-Dichloroethene	96	3.811	3.810	(0.542)	273864	20.0000	21	
	9 Acetone	43	3.840	3.842	(0.549)	79274	20.0000	26	
	111 1,1,2-Trichlo-1,2,2-trifluoro	101	3.842	3.842	(0.547)	257379	20.0000	23	
	10 Iodomethane	142	4.012	4.013	(0.571)	398362	20.0000	21	
	11 Carbon Disulfide	76	4.073	4.073	(0.579)	757863	20.0000	22	
	12 Acetonitrile	40	4.189	4.146	(0.596)	224640	200.000	228	
	13 Allyl Chloride	76	4.301	4.195	(0.598)	107988	20.0000	22	
	14 Methylene Chloride	84	4.328	4.329	(0.616)	222087	20.0000	21	
	15 Acrylonitrile	53	4.584	4.578	(0.652)	283683	100.000	100	

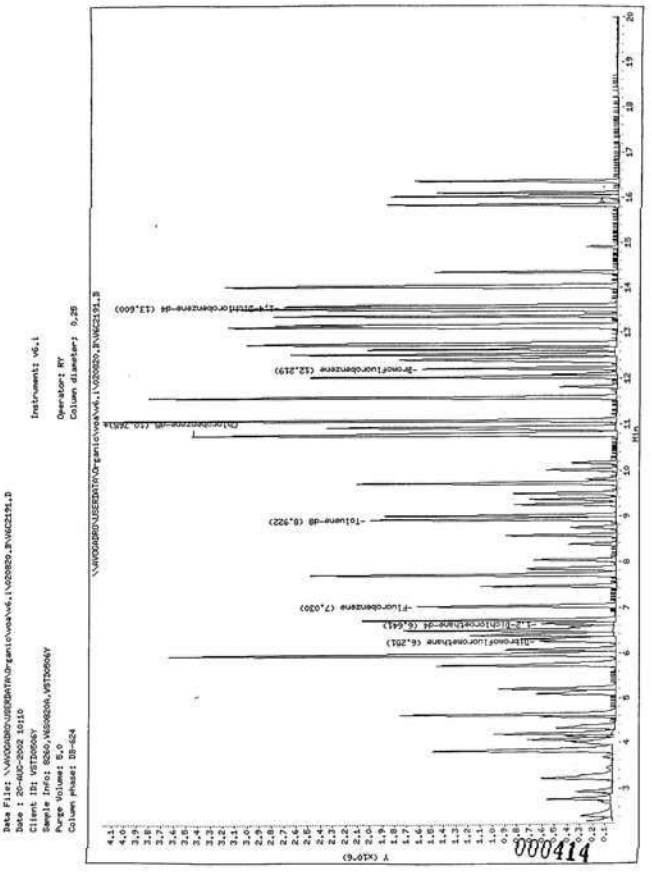
Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020820.B\V6C2196.D
Report Date: 20-Aug-2002 13:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
	16 trans-1,2-Dichloroethene	96	4.639	4.639	(0.660)	235288	20.0000	21	
	112 Methyl Acetate	43	4.645	4.645	(0.661)	108229	20.0000	22	
	17 Methyl tert-butyl ether	73	4.645	4.645	(0.661)	494542	20.0000	21	
	18 1,1-Dichloroethane	63	5.095	5.095	(0.725)	394447	20.0000	21	
	19 Vinyl acetate	43	5.138	5.138	(0.731)	229632	20.0000	18	
	20 2-Chloro-1,3-Butadiene	53	5.205	5.205	(0.740)	333174	20.0000	21	
	23 cis-1,2-Dichloroethene	96	5.734	5.734	(0.816)	315936	20.0000	20	
	24 2,2-Dichloropropane	77	5.740	5.734	(0.817)	224795	20.0000	22	A
	22 2-Butanone	43	5.740	5.734	(0.817)	84309	20.0000	21	
	25 Propionitrile	54	5.789	5.783	(0.823)	224224	200.000	200	
	26 Methacrylonitrile	41	5.959	5.959	(0.848)	1084795	200.000	220	
	27 Bromochloromethane	128	5.995	5.996	(0.853)	108482	20.0000	20	
	29 Tetrahydrofuran	72	6.068	6.063	(0.863)	20640	20.0000	20	
	28 Chloroform	83	6.080	6.075	(0.865)	374668	20.0000	21	
S	30 Dibromofluoromethane	113	6.251	6.251	(0.889)	194998	20.0000	20	
	31 1,1,1-Trichloroethane	97	6.300	6.306	(0.896)	331703	20.0000	22	
	113 Cyclohexane	56	6.391	6.391	(0.909)	395294	20.0000	22	
	32 1,1-Dichloropropene	110	6.488	6.489	(0.923)	114826	20.0000	21	
	33 Carbon Tetrachloride	117	6.506	6.501	(0.926)	331714	20.0000	21	
	34 Isobutyl Alcohol	43	6.573	6.568	(0.935)	114348	400.000	400	
S	35 1,2-Dichloroethane-d4	102	6.640	6.641	(0.945)	50140	20.0000	21	
	37 Benzene	78	6.719	6.726	(0.956)	879146	20.0000	21	
	36 1,2-Dichloroethane	62	6.725	6.726	(0.957)	278110	20.0000	21	
*	38 Fluorobenzene	96	7.029	7.030	(1.000)	1959468	50.0000		
	39 Trichloroethene	130	7.455	7.463	(1.061)	238607	20.0000	21	
M	21 1,2-Dichloroethene (Total)	96				451225	40.0000	41	
	114 Methylcyclohexane	83	7.705	7.705	(1.096)	405921	20.0000	22	
	40 1,2-Dichloropropane	63	7.711	7.717	(1.097)	211562	20.0000	21	
	42 Dibromomethane	93	7.851	7.857	(1.117)	120659	20.0000	21	
	41 Methyl Methacrylate	69	7.826	7.827	(1.113)	110002	20.0000	20	
	43 Bromodichloromethane	83	8.027	8.028	(1.142)	270590	20.0000	20	
	44 2-Chloroethyl vinyl ether	63	8.380	8.374	(1.192)	85962	20.0000	19	
	45 cis-1,3-Dichloropropene	75	8.569	8.569	(1.219)	320407	20.0000	20	
	46 4-Methyl-2-pentanone	43	8.745	8.745	(1.244)	147713	20.0000	20	
S	47 Toluene-d8	98	8.922	8.922	(0.828)	772348	20.0000	21	
	48 Toluene	91	9.007	9.007	(1.281)	932195	20.0000	22	
	49 trans-1,3-Dichloropropene	75	9.256	9.257	(1.317)	281057	20.0000	20	
	50 Ethyl Methacrylate	69	9.360	9.360	(1.331)	203323	20.0000	20	
	51 1,1,2-Trichloroethane	97	9.487	9.494	(1.350)	169943	20.0000	20	
	53 Tetrachloroethene	164	9.712	9.713	(0.902)	223068	20.0000	22	
	52 1,3-Dichloropropane	76	9.712	9.713	(0.902)	295027	20.0000	21	
	54 2-Hexanone	43	9.804	9.804	(0.910)	94673	20.0000	20	
	55 Dibromochloromethane	129	10.016	10.017	(0.930)	198250	20.0000	20	
	56 1,2-Dibromoethane	107	10.175	10.175	(0.945)	168193	20.0000	21	
*	57 Chlorobenzene-d5	117	10.771	10.765	(1.000)	1454079	50.0000		
	115 1-Chlorohexane	91	10.765	10.765	(0.999)	324496	20.0000	21	
	58 Chlorobenzene	112	10.807	10.802	(1.003)	601441	20.0000	21	

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020820.B\V6C2196.D
Report Date: 20-Aug-2002 13:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	59 1,1,1,2-Tetrachloroethane	131	10.905	10.905	(1.012)	213592	20.0000	21
	60 Ethylbenzene	106	10.941	10.942	(1.016)	334488	20.0000	21
	61 m,p-Xylene	106	11.087	11.088	(1.029)	817651	40.0000	43
	62 o-Xylene	106	11.580	11.580	(1.075)	387135	20.0000	21
	64 Styrene	104	11.598	11.593	(1.077)	617682	20.0000	21
	65 Bromoform	173	11.823	11.824	(1.098)	123302	20.0000	19
	66 Isopropylbenzene	105	12.036	12.037	(1.117)	997987	20.0000	22
$	68 Bromofluorobenzene	95	12.219	12.219	(1.134)	261567	20.0000	20
	69 1,1,2,2-Tetrachloroethane	83	12.371	12.377	(0.910)	207221	20.0000	21
	70 Bromobenzene	156	12.407	12.414	(0.913)	260515	20.0000	21
	67 trans-1,4-Dichloro-2-butene	75	12.091	12.091	(1.123)	52543	20.0000	18
	71 1,2,3-Trichloropropane	75	12.432	12.432	(0.915)	259943	20.0000	21
	72 n-Propylbenzene	120	12.529	12.529	(0.922)	304105	20.0000	22
	73 2-Chlorotoluene	126	12.638	12.645	(0.930)	253301	20.0000	21
	74 1,3,5-Trimethylbenzene	105	12.736	12.736	(0.937)	865796	20.0000	22
	75 4-Chlorotoluene	126	12.766	12.767	(0.940)	261510	20.0000	21
	76 tert-Butylbenzene	119	13.125	13.126	(0.966)	989219	20.0000	22
	77 1,2,4-Trimethylbenzene	105	13.180	13.180	(0.970)	873646	20.0000	22
	78 sec-Butylbenzene	105	13.381	13.381	(0.985)	1175183	20.0000	23
	80 1,3-Dichlorobenzene	146	13.514	13.515	(0.995)	516836	20.0000	21
	79 4-Isopropyltoluene	119	13.551	13.551	(0.997)	966544	20.0000	23
*	81 1,4-Dichlorobenzene-d4	152	13.587	13.588	(1.000)	821483	50.0000	
	82 1,4-Dichlorobenzene	146	13.618	13.618	(1.002)	533847	20.0000	22
M	63 Xylene (Total)	106				1204786	60.0000	64
	84 1,2-Dichlorobenzene	146	14.044	14.044	(1.034)	480385	20.0000	21
	83 n-Butylbenzene	91	14.019	14.014	(1.032)	921404	20.0000	23
	85 Hexachloroethane	117	14.348	14.348	(1.056)	158893	20.0000	21
	86 1,2-Dibromo-3-chloropropane	75	14.909	14.902	(1.097)	33532	20.0000	20
	87 1,2,4-Trichlorobenzene	180	15.832	15.827	(1.165)	331122	20.0000	21
	88 Hexachlorobutadiene	225	16.015	16.015	(1.179)	224166	20.0000	22
	89 Naphthalene	128	16.094	16.094	(1.184)	624198	20.0000	21
	90 1,2,3-Trichlorobenzene	180	16.355	16.356	(1.204)	306295	20.0000	21

RY
8/22/02



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020820.B\V6C2191.D
Report Date: 20-Aug-2002 12:12

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020820.B\V6C2191.D
Lab Smp Id: V6S0820A Client Smp ID: VSTD0506Y
Inj Date : 20-AUG-2002 10:10
Operator : RY Inst ID: v6.i
Smp Info : 8260,V6S0820A,VSTD0506Y
Misc Info : ,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020820.B\v68260.m
Meth Date : 20-Aug-2002 12:12 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 10:10 Cal File: V6C2191.D
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET8

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	1 Dichlorodifluoromethane	85	2.042	2.042	(0.290)	674193	50.0000	50
	2 Chloromethane	50	2.279	2.279	(0.324)	764700	50.0000	50
	3 Vinyl Chloride	62	2.419	2.419	(0.344)	761031	50.0000	50
	4 Bromomethane	94	2.778	2.778	(0.395)	535758	50.0000	50
	5 Chloroethane	64	2.936	2.936	(0.418)	457463	50.0000	50
	6 Trichlorofluoromethane	101	3.234	3.234	(0.460)	990488	50.0000	50
	7 Acrolein	56	3.678	3.675	(0.523)	108560	250.000	250
	8 1,1-Dichloroethene	96	3.830	3.830	(0.545)	622707	50.0000	50
	9 Acetone	43	3.842	3.842	(0.547)	152024	50.0000	50
	111 1,1,2-Trichlo-1,2,2-trifluoro	101	3.842	3.842	(0.547)	590479	50.0000	50
	10 Iodomethane	142	4.013	4.013	(0.571)	893148	50.0000	50
	11 Carbon Disulfide	76	4.073	4.073	(0.579)	1635682	50.0000	50
	12 Acetonitrile	40	4.146	4.146	(0.590)	426403	500.000	500
	13 Allyl Chloride	76	4.195	4.195	(0.597)	241830	50.0000	50
	14 Methylene Chloride	84	4.329	4.329	(0.616)	487148	50.0000	50
	15 Acrylonitrile	53	4.578	4.578	(0.651)	685751	250.000	250

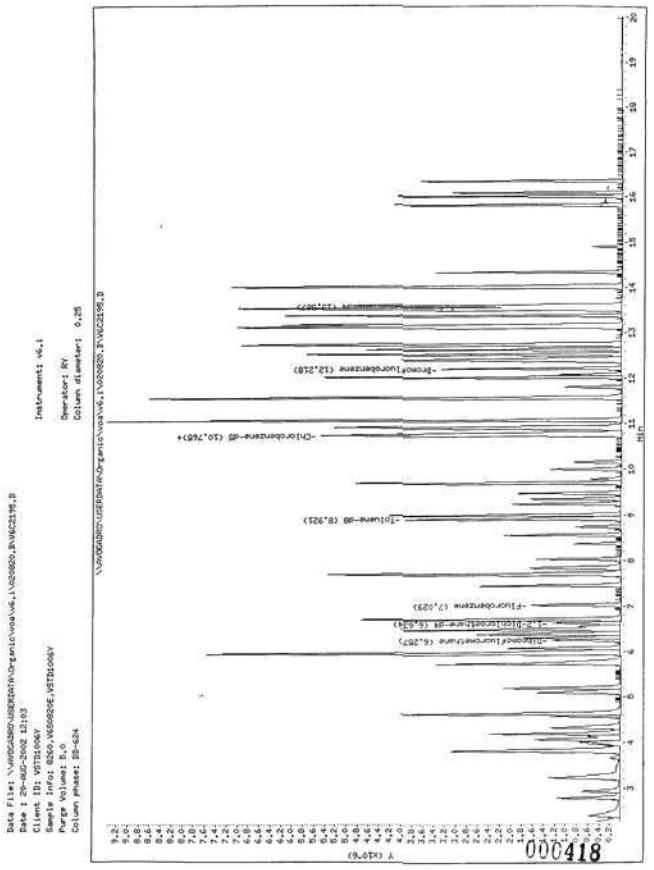
Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020820.B\V6C2191.D
Report Date: 20-Aug-2002 12:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	16 trans-1,2-Dichloroethene	96	4.639	4.639	(0.660)	516689	50.0000	50
	112 Methyl Acetate	43	4.645	4.645	(0.661)	231738	50.0000	50
	17 Methyl tert-butyl ether	73	4.645	4.645	(0.661)	1130813	50.0000	50
	18 1,1-Dichloroethane	63	5.095	5.095	(0.725)	848051	50.0000	50
	19 Vinyl acetate	43	5.138	5.138	(0.731)	656046	50.0000	50
	20 2-Chloro-1,3-Butadiene	53	5.205	5.205	(0.740)	744622	50.0000	50
	23 cis-1,2-Dichloroethene	96	5.734	5.734	(0.816)	499099	50.0000	50
	24 2,2-Dichloropropane	77	5.734	5.734	(0.816)	468703	50.0000	50
	22 2-Butanone	43	5.734	5.734	(0.816)	191100	50.0000	50
	25 Propionitrile	54	5.783	5.783	(0.823)	554099	500.000	500
	26 Methacrylonitrile	41	5.959	5.959	(0.848)	2441170	500.000	500
	27 Bromochloromethane	128	5.996	5.996	(0.853)	246956	50.0000	50
	29 Tetrahydrofuran	72	6.063	6.063	(0.862)	49284	50.0000	50
	28 Chloroform	83	6.075	6.075	(0.864)	823326	50.0000	50
$	30 Dibromofluoromethane	113	6.251	6.251	(0.889)	491761	50.0000	50
	31 1,1,1-Trichloroethane	97	6.306	6.306	(0.897)	704979	50.0000	50
	113 Cyclohexane	56	6.391	6.391	(0.909)	887033	50.0000	50
	32 1,1-Dichloropropene	110	6.489	6.489	(0.923)	250323	50.0000	50
	33 Carbon Tetrachloride	117	6.501	6.501	(0.925)	733869	50.0000	50
	34 Isobutyl Alcohol	43	6.568	6.568	(0.934)	295413	1000.00	1000
$	35 1,2-Dichloroethane-d4	102	6.641	6.641	(0.945)	122931	50.0000	50
	37 Benzene	78	6.726	6.726	(0.957)	1945869	50.0000	50
	36 1,2-Dichloroethane	62	6.726	6.726	(0.957)	611648	50.0000	50
*	38 Fluorobenzene	96	7.030	7.030	(1.000)	2046914	50.0000	
	39 Trichloroethene	130	7.463	7.462	(1.061)	529311	50.0000	50
M	21 1,2-Dichloroethene (Total)	96				1015789	100.000	100
	114 Methylcyclohexane	83	7.705	7.705	(1.096)	945959	50.0000	50
	40 1,2-Dichloropropane	63	7.717	7.717	(1.098)	467747	50.0000	50
	42 Dibromomethane	93	7.857	7.857	(1.118)	277902	50.0000	50
	41 Methyl Methacrylate	69	7.827	7.827	(1.113)	275164	50.0000	50
	43 Bromodichloromethane	83	8.028	8.028	(1.142)	620923	50.0000	50
	44 2-Chloroethyl vinyl ether	63	8.374	8.374	(1.191)	231556	50.0000	50
	45 cis-1,3-Dichloropropene	75	8.569	8.569	(1.219)	737664	50.0000	50
	46 4-Methyl-2-pentanone	43	8.745	8.745	(1.244)	364111	50.0000	50
$	47 Toluene-d8	98	8.922	8.922	(0.829)	2020555	50.0000	50
	48 Toluene	91	9.007	9.007	(1.281)	2095435	50.0000	50
	49 trans-1,3-Dichloropropene	75	9.257	9.257	(1.317)	665517	50.0000	50
	50 Ethyl Methacrylate	69	9.360	9.360	(1.331)	507372	50.0000	50
	51 1,1,2-Trichloroethane	97	9.494	9.494	(1.350)	389078	50.0000	50
	53 Tetrachloroethene	164	9.713	9.713	(0.902)	484077	50.0000	50
	52 1,3-Dichloropropane	76	9.713	9.713	(0.902)	672846	50.0000	50
	54 2-Hexanone	43	9.804	9.804	(0.911)	241062	50.0000	50
	55 Dibromochloromethane	129	10.017	10.017	(0.930)	468837	50.0000	50
	56 1,2-Dibromoethane	107	10.175	10.175	(0.945)	390091	50.0000	50
*	57 Chlorobenzene-d5	117	10.765	10.765	(1.000)	1538621	50.0000	
	115 1-Chlorohexane	91	10.765	10.765	(1.000)	741713	50.0000	50
	58 Chlorobenzene	112	10.802	10.802	(1.003)	1350660	50.0000	50

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020820.B\V6C2191.D
Report Date: 20-Aug-2002 12:12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	59 1,1,1,2-Tetrachloroethane	131	10.905	10.905	(1.013)	492190	50.0000	50
	60 Ethylbenzene	106	10.942	10.942	(1.016)	767475	50.0000	50
	61 m,p-Xylene	106	11.088	11.088	(1.030)	1869445	100.000	100
	62 o-Xylene	106	11.580	11.580	(1.076)	895103	50.0000	50
	64 Styrene	104	11.593	11.593	(1.077)	1466603	50.0000	50
	65 Bromoform	173	11.824	11.824	(1.098)	321585	50.0000	50
	66 Isopropylbenzene	105	12.037	12.037	(1.118)	2294283	50.0000	50
S	68 Bromofluorobenzene	95	12.219	12.219	(1.135)	686832	50.0000	50
	69 1,1,2,2-Tetrachloroethane	83	12.377	12.377	(0.911)	687451	50.0000	50
	70 Bromobenzene	156	12.414	12.414	(0.914)	600871	50.0000	50
	67 trans-1,4-Dichloro-2-butene	75	12.091	12.091	(1.123)	147731	50.0000	50
	71 1,2,3-Trichloropropane	75	12.432	12.432	(0.915)	627597	50.0000	50
	72 n-Propylbenzene	120	12.529	12.529	(0.922)	694839	50.0000	50
	73 2-Chlorotoluene	126	12.645	12.645	(0.931)	578965	50.0000	50
	74 1,3,5-Trimethylbenzene	105	12.736	12.736	(0.937)	1919871	50.0000	50
	75 4-Chlorotoluene	126	12.767	12.767	(0.940)	593127	50.0000	50
	76 tert-Butylbenzene	119	13.126	13.126	(0.966)	2255081	50.0000	50
	77 1,2,4-Trimethylbenzene	105	13.180	13.180	(0.970)	1975140	50.0000	50
	78 sec-Butylbenzene	105	13.381	13.381	(0.985)	2641661	50.0000	50
	80 1,3-Dichlorobenzene	146	13.515	13.515	(0.995)	1159747	50.0000	50
	79 4-Isopropyltoluene	119	13.551	13.551	(0.997)	2189611	50.0000	50
*	81 1,4-Dichlorobenzene-d4	152	13.588	13.588	(1.000)	818346	50.0000	
	82 1,4-Dichlorobenzene	146	13.618	13.618	(1.002)	1179660	50.0000	50
M	63 Xylene (Total)	106				2764548	150.000	150
	84 1,2-Dichlorobenzene	146	14.044	14.044	(1.034)	1104905	50.0000	50
	83 n-Butylbenzene	91	14.014	14.014	(1.031)	2091950	50.0000	50
	85 Hexachloroethane	117	14.348	14.348	(1.056)	383755	50.0000	50
	86 1,2-Dibromo-3-chloropropane	75	14.902	14.902	(1.097)	85185	50.0000	50
	87 1,2,4-Trichlorobenzene	180	15.827	15.827	(1.165)	797668	50.0000	50
	88 Hexachlorobutadiene	225	16.015	16.015	(1.179)	491669	50.0000	50
	89 Naphthalene	128	16.094	16.094	(1.184)	1574495	50.0000	50
	90 1,2,3-Trichlorobenzene	180	16.356	16.356	(1.204)	734878	50.0000	50

RY
8/22/02



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020820.B\V6C2195.D
Report Date: 20-Aug-2002 12:43

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020820.B\V6C2195.D
Lab Smp Id: V6S0820E Client Smp ID: VSTD1006Y
Inj Date : 20-AUG-2002 12:03
Operator : RY Inst ID: v6.i
Smp Info : 8260,V6S0820E,VSTD1006Y
Misc Info : ,1,4
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020820.B\v68260.m
Meth Date : 20-Aug-2002 12:43 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:03 Cal File: V6C2195.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET8

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	1 Dichlorodifluoromethane	85	2.041	2.042	(0.290)	1175488	100.000	100
	2 Chloromethane	50	2.272	2.279	(0.323)	1643845	100.000	96
	3 Vinyl Chloride	62	2.424	2.419	(0.345)	1639880	100.000	99
	4 Bromomethane	94	2.802	2.778	(0.399)	1109610	100.000	94
	5 Chloroethane	64	2.947	2.936	(0.419)	950212	100.000	99
	6 Trichlorofluoromethane	101	3.239	3.234	(0.461)	2191708	100.000	110
	7 Acrolein	56	3.671	3.678	(0.522)	204772	500.000	510
	8 1,1-Dichloroethene	96	3.823	3.830	(0.544)	1390691	100.000	100
	9 Acetone	43	3.841	3.842	(0.546)	303000	100.000	100
	111 1,1,2-Trichlo-1,2,2-trifluoro	101	3.841	3.842	(0.546)	1194860	100.000	100
	10 Iodomethane	142	4.006	4.013	(0.570)	1979924	100.000	100
	11 Carbon Disulfide	76	4.073	4.073	(0.579)	3623672	100.000	100
	12 Acetonitrile	40	4.140	4.146	(0.589)	688959	1000.00	670(T)
	13 Allyl Chloride	76	4.200	4.195	(0.598)	567683	100.000	110
	14 Methylene Chloride	84	4.328	4.329	(0.616)	1100310	100.000	100
	15 Acrylonitrile	53	4.566	4.576	(0.652)	1476719	500.000	510

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020820.B\V6C2195.D
Report Date: 20-Aug-2002 12:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	16 trans-1,2-Dichloroethene	96	4.638	4.639	(0.660)	1393362	100.000	100
	112 Methyl Acetate	43	4.644	4.645	(0.661)	523571	100.000	100
	17 Methyl tert-butyl ether	73	4.644	4.645	(0.661)	2555158	100.000	100
	16 1,1-Dichloroethene	*61*	*5.095*	*5.095*	*(0.725)*	1951158	100.000	100
	19 Vinyl acetate	43	5.137	5.138	(0.731)	1397269	100.000	100
	20 2-Chloro-1,3-Butadiene	53	5.204	5.205	(0.740)	1750646	100.000	110
	21 cis-1,2-Dichloroethene	96	5.734	5.734	(0.816)	1171359	100.000	100
	24 2,2-Dichloropropane	77	5.740	5.734	(0.817)	1079297	100.000	100
	22 2-Butanone	43	5.727	5.734	(0.815)	398465	100.000	95
	25 Propionitrile	54	5.782	5.783	(0.823)	1175635	1000.00	1000
	26 Methacrylonitrile	41	5.959	5.959	(0.848)	5240223	1000.00	1000
	27 Bromochloromethane	128	5.995	5.996	(0.853)	564762	100.000	100
	29 Tetrahydrofuran	72	6.056	6.063	(0.862)	108423	100.000	100
	28 Chloroform	83	6.074	6.075	(0.864)	1893383	100.000	100
S	30 Dibromofluoromethane	113	6.251	6.251	(0.889)	990857	100.000	100
	31 1,1,1-Trichloroethane	97	6.305	6.306	(0.897)	1625980	100.000	100
	113 Cyclohexane	56	6.391	6.391	(0.909)	1944502	100.000	110
	32 1,1-Dichloropropene	110	6.494	6.489	(0.924)	594913	100.000	110
	33 Carbon Tetrachloride	117	6.500	6.501	(0.925)	1682945	100.000	100
	34 Isobutyl Alcohol	43	6.567	6.568	(0.934)	637072	2000.00	2100
S	35 1,2-Dichloroethane-d4	102	6.634	6.641	(0.944)	240019	100.000	98
	37 Benzene	78	6.719	6.726	(0.956)	4413732	100.000	100
	36 1,2-Dichloroethane	62	6.719	6.726	(0.956)	1365668	100.000	100
*	38 Fluorobenzene	96	7.029	7.030	(1.000)	2044250	50.0000	
	39 Trichloroethene	130	7.455	7.462	(1.061)	1237885	100.000	100
M	21 1,2-Dichloroethene (Total)	96				2364721	200.000	210
	114 Methylcyclohexane	83	7.705	7.705	(1.096)	2079858	100.000	110
	40 1,2-Dichloropropane	63	7.711	7.717	(1.097)	1082965	100.000	100
	42 Dibromomethane	93	7.851	7.857	(1.117)	620680	100.000	100
	41 Methyl Methacrylate	69	7.820	7.827	(1.113)	829321	100.000	110
	43 Bromodichloromethane	83	8.027	8.028	(1.142)	1415306	100.000	100
	44 2-Chloroethyl vinyl ether	63	8.374	8.374	(1.191)	503177	100.000	110
	45 cis-1,3-Dichloropropene	75	8.568	8.569	(1.219)	1713756	100.000	110
	46 4-Methyl-2-pentanone	43	8.745	8.745	(1.244)	785169	100.000	100
S	47 Toluene-d8	98	8.921	8.922	(1.028)	3879410	100.000	100
	48 Toluene	91	9.000	9.007	(1.280)	4687644	100.000	100
	49 trans-1,3-Dichloropropene	75	9.250	9.257	(1.316)	1525644	100.000	100
	50 Ethyl Methacrylate	69	9.359	9.360	(1.331)	1181544	100.000	110
	51 1,1,2-Trichloroethane	97	9.493	9.494	(1.351)	874467	100.000	100
	53 Tetrachloroethene	164	9.712	9.713	(0.902)	1122325	100.000	100
	52 1,3-Dichloropropane	76	9.712	9.713	(0.902)	1531868	100.000	100
	54 2-Hexanone	43	9.797	9.804	(0.910)	537636	100.000	110
	55 Dibromochloromethane	129	10.010	10.017	(0.929)	1071302	100.000	100
	56 1,2-Dibromoethane	107	10.174	10.175	(0.945)	898928	100.000	100
*	57 Chlorobenzene-d5	117	10.771	10.765	(1.000)	1568499	50.0000	
	115 1-Chlorohexane	91	10.765	10.765	(0.999)	1722552	100.000	100
	58 Chlorobenzene	112	10.807	10.802	(1.003)	3029178	100.000	100

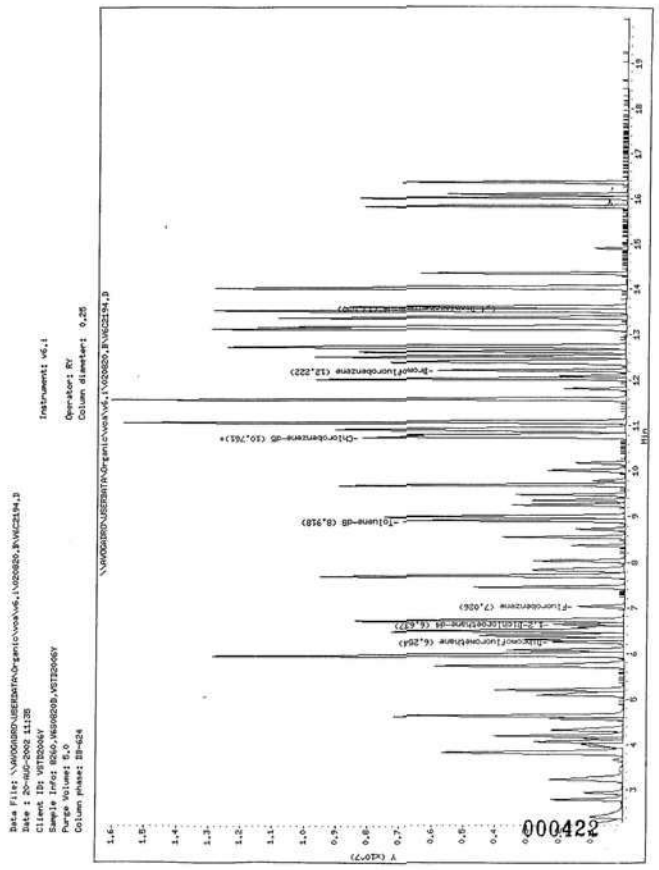
Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020820.B\V6C2195.D
Report Date: 20-Aug-2002 12:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
	59 1,1,1,2-Tetrachloroethane	131	10.898	10.905	(1.012)	1135425	100.000	100	
	60 Ethylbenzene	106	10.941	10.942	(1.016)	1763535	100.000	100	
	61 m,p-Xylene	106	11.087	11.088	(1.029)	4281552	200.000	210	
	62 o-Xylene	106	11.580	11.580	(1.075)	2118049	100.000	110	
	64 Styrene	104	11.592	11.593	(1.076)	3351696	100.000	110	
	65 Bromoform	173	11.823	11.824	(1.098)	713877	100.000	100	
	66 Isopropylbenzene	105	12.036	12.037	(1.117)	5109609	100.000	110	
S	68 Bromofluorobenzene	95	12.218	12.219	(1.134)	1410953	100.000	100	A
	69 1,1,2,2-Tetrachloroethane	83	12.371	12.377	(0.910)	1064265	100.000	100	
	70 Bromobenzene	156	12.407	12.414	(0.913)	1392122	100.000	110	
	67 trans-1,4-Dichloro-2-butene	75	12.091	12.091	(1.123)	360370	100.000	110	
	71 1,2,3-Trichloropropane	75	12.431	12.432	(0.915)	1347394	100.000	100	
	72 n-Propylbenzene	120	12.529	12.529	(0.922)	1610397	100.000	110	
	73 2-Chlorotoluene	126	12.638	12.645	(0.930)	1321089	100.000	110	
	74 1,3,5-Trimethylbenzene	105	12.736	12.736	(0.937)	4289378	100.000	110	
	75 4-Chlorotoluene	126	12.766	12.767	(0.940)	1361029	100.000	100	
	76 tert-Butylbenzene	119	13.125	13.126	(0.966)	5047372	100.000	110	
	77 1,2,4-Trimethylbenzene	105	13.180	13.180	(0.970)	4288628	100.000	110	
	78 sec-Butylbenzene	105	13.380	13.381	(0.985)	5683383	100.000	110	
	80 1,3-Dichlorobenzene	146	13.514	13.515	(0.995)	2625350	100.000	100	
	79 4-Isopropyltoluene	119	13.545	13.551	(0.997)	4766501	100.000	110	
*	81 1,4-Dichlorobenzene-d4	152	13.587	13.588	(1.000)	869411	50.0000		
	82 1,4-Dichlorobenzene	146	13.618	13.618	(1.002)	2576797	100.000	100	
M	63 Xylene (Total)	106				6399603	300.000	320	
	84 1,2-Dichlorobenzene	146	14.043	14.044	(1.034)	2432382	100.000	100	
	83 n-Butylbenzene	91	14.019	14.014	(1.032)	4413498	100.000	110	
	85 Hexachloroethane	117	14.348	14.348	(1.056)	846788	100.000	100	
	86 1,2-Dibromo-3-chloropropane	75	14.907	14.902	(1.097)	175877	100.000	100	
	87 1,2,4-Trichlorobenzene	180	15.826	15.827	(1.165)	1800995	100.000	110	
	88 Hexachlorobutadiene	225	16.015	16.015	(1.179)	1085351	100.000	100	
	89 Naphthalene	128	16.094	16.094	(1.184)	3381240	100.000	110	
	90 1,2,3-Trichlorobenzene	180	16.355	16.356	(1.204)	1591950	100.000	100	

QC Flag Legend

T - Target compound detected outside RT window.

RY
8/22/02



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020820.B\V6C2194.D
Report Date: 20-Aug-2002 12:13

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020820.B\V6C2194.D
Lab Smp Id: V6S0820D Client Smp ID: VSTD2006Y
Inj Date : 20-AUG-2002 11:35
Operator : RY Inst ID: v6.i
Smp Info : 8260,V6S0820D,VSTD2006Y
Misc Info : ,1,5
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020820.B\v68260.m A
Meth Date : 20-Aug-2002 12:13 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 11:35 Cal File: V6C2194.D
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET8

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
	1 Dichlorodifluoromethane	85	2.038	2.042	(0.290)	2492380	200.000	220	(A)
	2 Chloromethane	50	2.269	2.279	(0.323)	3002266	200.000	190	
	3 Vinyl Chloride	62	2.421	2.419	(0.345)	2995562	200.000	200	(A)
	4 Bromomethane	94	2.786	2.778	(0.397)	2057306	200.000	190	
	5 Chloroethane	64	2.932	2.936	(0.417)	1779411	200.000	200	(A)
	6 Trichlorofluoromethane	101	3.230	3.234	(0.460)	3722668	200.000	220	(A)
	7 Acrolein	56	3.674	3.678	(0.523)	386592	1000.00	1000	(A)
	8 1,1-Dichloroethene	96	3.820	3.830	(0.544)	2683946	200.000	210	(A)
	9 Acetone	43	3.845	3.842	(0.547)	528427	200.000	200	
	111 1,1,2-Trichlo-1,2,2-trifluoro	101	3.838	3.842	(0.546)	2145034	200.000	210	(A)
	10 Iodomethane	142	4.003	4.013	(0.570)	3513925	200.000	200	(A)
	11 Carbon Disulfide	76	4.070	4.073	(0.579)	6434836	200.000	210	(A)
	12 Acetonitrile	40	4.143	4.146	(0.590)	1448355	2000.00	1400	
	13 Allyl Chloride	76	4.197	4.195	(0.597)	1027107	200.000	230	(A)
	14 Methylene Chloride	84	4.331	4.329	(0.616)	2011791	200.000	210	(A)
	15 Acrylonitrile	53	4.581	4.578	(0.652)	2579425	1000.00	990	

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020820.B\V6C2194.D
Report Date: 20-Aug-2002 12:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
	16 trans-1,2-Dichloroethene	96	4.641	4.639	(0.665)	3175315	200.000	210	(A)
	112 Methyl Acetate	43	4.641	4.645	(0.665)	935614	200.000	210	(A)
	17 Methyl tert-butyl ether	73	4.641	4.645	(0.665)	4485947	200.000	210	(A)
	18 1,1-Dichloroethane	63	5.090	5.095	(0.729)	5538366	200.000	220	(A)
	19 Vinyl acetate	43	5.134	5.138	(0.735)	2643331	200.000	210	(A)
	20 2-Chloro-1,3-Butadiene	53	5.203	5.205	(0.745)	3142607	200.000	230	(A)
	23 cis-1,2-Dichloroethene	96	5.731	5.734	(0.816)	2139913	200.000	220	(A)
	24 2,2-Dichloropropane	77	5.737	5.734	(0.816)	1925238	200.000	210	(A)
	22 2-Butanone	43	5.731	5.734	(0.816)	701465	200.000	180	
	25 Propionitrile	54	5.785	5.783	(0.823)	2022286	2000.00	2000	
	26 Methacrylonitrile	41	5.962	5.959	(0.848)	8502551	2000.00	1900	
	27 Bromochloromethane	128	5.992	5.996	(0.853)	1027828	200.000	210	(A)
	29 Tetrahydrofuran	72	6.059	6.063	(0.862)	191453	200.000	200	
	28 Chloroform	83	6.077	6.075	(0.865)	3387062	200.000	210	(A)
S	30 Dibromofluoromethane	113	6.254	6.251	(0.890)	1782758	200.000	200	(A)
	31 1,1,1-Trichloroethane	97	6.302	6.304	(0.897)	2894341	200.000	210	(A)
	113 Cyclohexane	56	6.388	6.391	(0.909)	3472705	200.000	220	(A)
	32 1,1-Dichloropropene	110	6.491	6.489	(0.924)	1077317	200.000	220	(A)
	33 Carbon Tetrachloride	117	6.497	6.501	(0.925)	3021104	200.000	210	(A)
	34 Isobutyl Alcohol	43	6.570	6.568	(0.935)	1102166	4000.00	4200	(A)
S	35 1,2-Dichloroethane-d4	102	6.637	6.641	(0.945)	455442	200.000	210	(A)
	37 Benzene	78	6.722	6.726	(0.957)	7716295	200.000	200	(A)
	36 1,2-Dichloroethane	62	6.722	6.726	(0.957)	2452191	200.000	200	(A)
*	38 Fluorobenzene	96	7.026	7.030	(1.000)	1826722	50.0000		
	39 Trichloroethene	130	7.458	7.462	(1.061)	3248604	200.000	220	(A)
M	21 1,2-Dichloroethene (Total)	96				4315229	400.000	430	
	114 Methylcyclohexane	83	7.708	7.705	(1.097)	3688791	200.000	230	(A)
	40 1,2-Dichloropropane	63	7.714	7.717	(1.098)	1964025	200.000	210	(A)
	42 Dibromomethane	93	7.854	7.857	(1.118)	1111827	200.000	210	(A)
	41 Methyl Methacrylate	69	7.823	7.827	(1.113)	1124305	200.000	220	
	43 Bromodichloromethane	83	8.030	8.028	(1.143)	2568447	200.000	210	(A)
	44 2-Chloroethyl vinyl ether	63	8.377	8.374	(1.192)	976262	200.000	240	(A)
	45 cis-1,3-Dichloropropene	75	8.571	8.569	(1.220)	3100235	200.000	220	(A)
	46 4-Methyl-2-pentanone	43	8.742	8.745	(1.244)	1416308	200.000	210	(A)
S	47 Toluene-d8	98	8.918	8.922	(0.828)	6582428	200.000	180	
	48 Toluene	91	9.003	9.007	(1.281)	7900611	200.000	200	(A)
	49 trans-1,3-Dichloropropene	75	9.253	9.257	(1.317)	2807644	200.000	220	(A)
	50 Ethyl Methacrylate	69	9.356	9.360	(1.332)	2136878	200.000	240	(A)
	51 1,1,2-Trichloroethane	97	9.490	9.494	(1.351)	1583460	200.000	210	(A)
	53 Tetrachloroethene	164	9.715	9.713	(0.902)	3047989	200.000	210	(A)
	52 1,3-Dichloropropane	76	9.709	9.713	(0.902)	2799769	200.000	200	(A)
	54 2-Hexanone	43	9.800	9.804	(0.910)	966299	200.000	210	(A)
	55 Dibromochloromethane	129	10.013	10.017	(0.930)	1978587	200.000	210	(A)
	56 1,2-Dibromoethane	107	10.171	10.175	(0.945)	1605006	200.000	200	(A)
*	57 Chlorobenzene-d5	117	10.768	10.765	(1.000)	1450303	50.0000		
	115 1-Chlorohexane	91	10.761	10.765	(0.999)	3080551	200.000	210	(A)
	58 Chlorobenzene	112	10.804	10.802	(1.003)	5402272	200.000	200	

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020820.B\V6C2194.D
Report Date: 20-Aug-2002 12:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
	59 1,1,1,2-Tetrachloroethane	131	10.901	10.905	(1.012)	2084823	200.000	210(A)	
	60 Ethylbenzene	106	10.938	10.942	(1.016)	3264762	200.000	210(A)	
	61 m,p-Xylene	106	11.084	11.088	(1.029)	7713608	400.000	420(A)	
	62 o-Xylene	106	11.583	11.580	(1.076)	3989671	200.000	220(A)	
	64 Styrene	104	11.595	11.593	(1.077)	6006487	200.000	220(A)	
	65 Bromoform	173	11.820	11.824	(1.098)	1315655	200.000	210(A)	
	66 Isopropylbenzene	105	12.033	12.037	(1.118)	8579635	200.000	200(A)	
E	68 Bromofluorobenzene	95	12.222	12.219	(1.135)	2556231	200.000	200	A
	69 1,1,2,2-Tetrachloroethane	83	12.374	12.377	(0.910)	1914124	200.000	190	
	70 Bromobenzene	156	12.410	12.414	(0.913)	2530512	200.000	210(A)	
	67 trans-1,4-Dichloro-2-butene	75	12.094	12.091	(1.123)	663186	200.000	230(A)	
	71 1,2,3-Trichloropropane	75	12.434	12.432	(0.915)	2423866	200.000	200	
	72 n-Propylbenzene	120	12.530	12.529	(0.922)	3024312	200.000	220(A)	
	73 2-Chlorotoluene	126	12.641	12.645	(0.930)	2453842	200.000	210(A)	
	74 1,3,5-Trimethylbenzene	105	12.739	12.736	(0.937)	7375598	200.000	200(A)	
	75 4-Chlorotoluene	126	12.763	12.767	(0.939)	2551684	200.000	210(A)	
	76 tert-Butylbenzene	119	13.128	13.126	(0.966)	8376056	200.000	210(A)	
	77 1,2,4-Trimethylbenzene	105	13.183	13.180	(0.970)	7495595	200.000	200(A)	
	78 sec-Butylbenzene	105	13.383	13.381	(0.985)	9382923	200.000	200	
	80 1,3-Dichlorobenzene	146	13.517	13.515	(0.995)	4838469	200.000	210(A)	
	79 4-Isopropyltoluene	119	13.548	13.551	(0.997)	8188636	200.000	200(A)	
*	81 1,4-Dichlorobenzene-d4	152	13.590	13.588	(1.000)	830701	50.0000		
	82 1,4-Dichlorobenzene	146	13.615	13.618	(1.002)	4756780	200.000	200	
M	63 Xylene (Total)	106				11703280	600.000	650	
	84 1,2-Dichlorobenzene	146	14.047	14.044	(1.034)	4493290	200.000	200(A)	
	83 n-Butylbenzene	91	14.014	14.014	(1.033)	7579954	200.000	200(A)	
	85 Hexachloroethane	117	14.345	14.348	(1.056)	1637959	200.000	220(A)	
	86 1,2-Dibromo-3-chloropropane	75	14.904	14.902	(1.097)	329131	200.000	190	
	87 1,2,4-Trichlorobenzene	180	15.829	15.827	(1.165)	3475469	200.000	220(A)	
	88 Hexachlorobutadiene	225	16.012	16.015	(1.178)	2152175	200.000	210(A)	
	89 Naphthalene	128	16.097	16.094	(1.184)	6121022	200.000	210(A)	
	90 1,2,3-Trichlorobenzene	180	16.352	16.356	(1.203)	3019711	200.000	210(A)	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

RY
8/22/02

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Instrument ID: V6 Calibration Date: 08/29/02 Time: 2314

Lab File ID: V6C2483 Init. Calib. Date(s): 08/20/02 08/20/02

Heated Purge: (Y/N) N Init. Calib. Times: 1010 1231

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.332	0.277	0.01	16.6	20.0
Chloromethane	0.426	0.417	0.1	2.1	20.0
Vinyl Chloride	0.412	0.405	0.01	1.7	20.0
Bromomethane	0.291	0.264	0.01	9.3	20.0
Chloroethane	0.238	0.237	0.01	0.4	20.0
Trichlorofluoromethane	0.493	0.465	0.01	5.7	20.0
1,1-Dichloroethene	0.336	0.321	0.01	4.5	20.0
Acetone	0.079	0.083	0.01	5.1	20.0
Methylene Chloride	0.269	0.276	0.01	2.6	20.0
Acrylonitrile	0.072	0.071	0.001	1.4	20.0
trans-1,2-Dichloroethene	0.285	0.291	0.01	2.1	20.0
Methyl tert-butyl ether	0.605	0.678	0.01	12.1	20.0
1,1-Dichloroethane	0.470	0.484	0.1	3.0	20.0
2-Butanone	0.103	0.111	0.01	7.8	20.0
cis-1,2-Dichloroethene	0.273	0.288	0.01	5.5	20.0
2,2-Dichloropropane	0.261	0.226	0.01	13.4	20.0
Bromochloromethane	0.136	0.144	0.01	5.9	20.0
Chloroform	0.456	0.477	0.01	4.6	20.0
Tetrahydrofuran	0.026	0.027	0.001	3.8	20.0
1,1,1-Trichloroethane	0.390	0.383	0.01	1.8	20.0
1,1-Dichloropropene	0.139	0.140	0.01	0.7	20.0
Carbon Tetrachloride	0.399	0.396	0.01	0.8	20.0
1,2-Dichloroethane	0.334	0.358	0.01	7.2	20.0
Benzene	1.057	1.116	0.01	5.6	20.0
Trichloroethene	0.292	0.296	0.01	1.4	20.0
1,2-Dichloropropane	0.262	0.278	0.01	6.1	20.0
Dibromomethane	0.149	0.159	0.01	6.7	20.0
Bromodichloromethane	0.338	0.359	0.01	6.2	20.0
cis-1,3-Dichloropropene	0.397	0.421	0.01	6.0	20.0
4-Methyl-2-pentanone	0.187	0.218	0.01	16.6	20.0
Toluene	1.099	1.188	0.01	8.1	20.0
trans-1,3-Dichloropropene	0.354	0.380	0.01	7.3	20.0
1,1,2-Trichloroethane	0.211	0.224	0.01	6.2	20.0
Tetrachloroethene	0.353	0.367	0.01	4.0	20.0
2-Hexanone	0.162	0.191	0.01	17.9	20.0
Dibromochloromethane	0.335	0.348	0.01	3.9	20.0
1,2-Dibromoethane	0.279	0.298	0.01	6.8	20.0

FORM VII VOA

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Instrument ID: V6 Calibration Date: 08/29/02 Time: 2314

Lab File ID: V6C2483 Init. Calib. Date(s): 08/20/02 08/20/02

Heated Purge: (Y/N) N Init. Calib. Times: 1010 1231

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D	
Chlorobenzene	0.964	1.006	0.3	4.4	20.0	
1,1,1,2-Tetrachloroethane	0.355	0.371	0.01	4.5	20.0	
Ethylbenzene	0.547	0.561	0.01	2.6	20.0	
Xylene (Total)	0.649	0.684	0.01	5.4	20.0	
Styrene	1.003	1.106	0.01	10.3	20.0	
Bromoform	0.219	0.230	0.1	5.0	20.0	
Isopropylbenzene	1.533	1.666	0.01	8.7	20.0	
1,1,2,2-Tetrachloroethane	0.609	0.642	0.3	5.4	20.0	
Bromobenzene	0.749	0.803	0.01	7.2	20.0	
1,2,3-Trichloropropane	0.754	0.817	0.01	8.4	20.0	
n-Propylbenzene	0.860	0.885	0.01	2.9	20.0	
2-Chlorotoluene	0.722	0.741	0.01	2.6	20.0	
1,3,5-Trimethylbenzene	2.336	2.493	0.01	6.7	20.0	
4-Chlorotoluene	0.752	0.770	0.01	2.4	20.0	
tert-Butylbenzene	2.702	2.876	0.01	6.4	20.0	
1,2,4-Trimethylbenzene	2.361	2.529	0.01	7.1	20.0	
sec-Butylbenzene	3.103	3.272	0.01	5.4	20.0	
4-Isopropyltoluene	2.598	2.732	0.01	5.2	20.0	
1,3-Dichlorobenzene	1.464	1.528	0.01	4.4	20.0	
1,4-Dichlorobenzene	1.498	1.548	0.01	3.3	20.0	
n-Butylbenzene	2.428	2.544	0.01	4.8	20.0	
1,2-Dichlorobenzene	1.368	1.443	0.01	5.5	20.0	
1,2-Dibromo-3-chloropropane	0.102	0.108	0.01	5.9	20.0	
1,2,4-Trichlorobenzene	0.977	1.050	0.01	7.5	20.0	
Hexachlorobutadiene	0.629	0.583	0.01	7.3	20.0	
Naphthalene	1.829	2.200	0.01	20.3	20.0	<-
1,2,3-Trichlorobenzene	0.895	0.955	0.01	6.7	20.0	
1-Chlorohexane	0.529	0.490	0.01	7.4	20.0	
Dibromofluoromethane	0.245	0.242	0.01	1.2	20.0	
1,2-Dichloroethane-d4	0.061	0.066	0.01	8.2	20.0	
Toluene-d8	1.254	1.265	0.01	0.9	20.0	
Bromofluorobenzene	0.447	0.447	0.01	0.0	20.0	

FORM VII VOA

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Instrument ID: V6 Calibration Date: 08/30/02 Time: 1222

Lab File ID: V6C2511 Init. Calib. Date(s): 08/20/02 08/20/02

Heated Purge: (Y/N) N Init. Calib. Times: 1010 1231

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D	
Dichlorodifluoromethane	0.332	0.277	0.01	16.6	20.0	
Chloromethane	0.426	0.402	0.1	5.6	20.0	
Vinyl Chloride	0.412	0.382	0.01	7.3	20.0	
Bromomethane	0.291	0.262	0.01	10.0	20.0	
Chloroethane	0.238	0.230	0.01	3.4	20.0	
Trichlorofluoromethane	0.493	0.465	0.01	5.7	20.0	
1,1-Dichloroethene	0.336	0.331	0.01	1.5	20.0	
Acetone	0.079	0.104	0.01	31.6	20.0	<-
Methylene Chloride	0.269	0.267	0.01	0.7	20.0	
Acrylonitrile	0.072	0.071	0.001	1.4	20.0	
trans-1,2-Dichloroethene	0.285	0.277	0.01	2.8	20.0	
Methyl tert-butyl ether	0.605	0.658	0.01	8.8	20.0	
1,1-Dichloroethane	0.470	0.487	0.1	3.6	20.0	
2-Butanone	0.103	0.129	0.01	25.2	20.0	<-
cis-1,2-Dichloroethene	0.273	0.271	0.01	0.7	20.0	
2,2-Dichloropropane	0.261	0.226	0.01	13.4	20.0	
Bromochloromethane	0.136	0.144	0.01	5.9	20.0	
Chloroform	0.456	0.467	0.01	2.4	20.0	
Tetrahydrofuran	0.026	0.027	0.001	3.8	20.0	
1,1,1-Trichloroethane	0.390	0.376	0.01	3.6	20.0	
1,1-Dichloropropene	0.139	0.140	0.01	0.7	20.0	
Carbon Tetrachloride	0.399	0.385	0.01	3.5	20.0	
1,2-Dichloroethane	0.334	0.362	0.01	8.4	20.0	
Benzene	1.057	1.082	0.01	2.4	20.0	
Trichloroethene	0.292	0.276	0.01	5.5	20.0	
1,2-Dichloropropane	0.262	0.273	0.01	4.2	20.0	
Dibromomethane	0.149	0.159	0.01	6.7	20.0	
Bromodichloromethane	0.338	0.350	0.01	3.6	20.0	
cis-1,3-Dichloropropene	0.397	0.411	0.01	3.5	20.0	
4-Methyl-2-pentanone	0.187	0.244	0.01	30.5	20.0	<-
Toluene	1.099	1.137	0.01	3.4	20.0	
trans-1,3-Dichloropropene	0.354	0.384	0.01	8.5	20.0	
1,1,2-Trichloroethane	0.211	0.221	0.01	4.7	20.0	
Tetrachloroethene	0.353	0.324	0.01	8.2	20.0	
2-Hexanone	0.162	0.220	0.01	35.8	20.0	<-
Dibromochloromethane	0.335	0.340	0.01	1.5	20.0	
1,2-Dibromoethane	0.279	0.298	0.01	6.8	20.0	

FORM VII VOA

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Instrument ID: V6 Calibration Date: 08/30/02 Time: 1222

Lab File ID: V6C2511 Init. Calib. Date(s): 08/20/02 08/20/02

Heated Purge: (Y/N) N Init. Calib. Times: 1010 1231

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D	
Chlorobenzene	0.964	0.956	0.3	0.8	20.0	
1,1,1,2-Tetrachloroethane	0.355	0.371	0.01	4.5	20.0	
Ethylbenzene	0.547	0.529	0.01	3.3	20.0	
Xylene (Total)	0.649	0.649	0.01	0.0	20.0	
Styrene	1.003	1.050	0.01	4.7	20.0	
Bromoform	0.219	0.224	0.1	2.3	20.0	
Isopropylbenzene	1.533	1.666	0.01	8.7	20.0	
1,1,2,2-Tetrachloroethane	0.609	0.689	0.3	13.1	20.0	
Bromobenzene	0.749	0.803	0.01	7.2	20.0	
1,2,3-Trichloropropane	0.754	0.817	0.01	8.4	20.0	
n-Propylbenzene	0.860	0.885	0.01	2.9	20.0	
2-Chlorotoluene	0.722	0.741	0.01	2.6	20.0	
1,3,5-Trimethylbenzene	2.336	2.493	0.01	6.7	20.0	
4-Chlorotoluene	0.752	0.770	0.01	2.4	20.0	
tert-Butylbenzene	2.702	2.876	0.01	6.4	20.0	
1,2,4-Trimethylbenzene	2.361	2.529	0.01	7.1	20.0	
sec-Butylbenzene	3.103	3.272	0.01	5.4	20.0	
4-Isopropyltoluene	2.598	2.732	0.01	5.2	20.0	
1,3-Dichlorobenzene	1.464	1.528	0.01	4.4	20.0	
1,4-Dichlorobenzene	1.498	1.548	0.01	3.3	20.0	
n-Butylbenzene	2.428	2.544	0.01	4.8	20.0	
1,2-Dichlorobenzene	1.368	1.443	0.01	5.5	20.0	
1,2-Dibromo-3-chloropropane	0.102	0.108	0.01	5.9	20.0	
1,2,4-Trichlorobenzene	0.977	1.050	0.01	7.5	20.0	
Hexachlorobutadiene	0.629	0.583	0.01	7.3	20.0	
Naphthalene	1.829	2.200	0.01	20.3	20.0	<-
1,2,3-Trichlorobenzene	0.895	0.955	0.01	6.7	20.0	
1-Chlorohexane	0.529	0.490	0.01	7.4	20.0	
Dibromofluoromethane	0.245	0.247	0.01	0.8	20.0	
1,2-Dichloroethane-d4	0.061	0.064	0.01	4.9	20.0	
Toluene-d8	1.254	1.302	0.01	3.8	20.0	
Bromofluorobenzene	0.447	0.457	0.01	2.2	20.0	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Instrument ID: V6 Calibration Date: 08/31/02 Time: 0028

Lab File ID: V6C2541 Init. Calib. Date(s): 08/20/02 08/20/02

Heated Purge: (Y/N) N Init. Calib. Times: 1010 1231

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D	
Dichlorodifluoromethane	0.332	0.209	0.01	37.0	20.0	<-
Chloromethane	0.426	0.367	0.1	13.8	20.0	
Vinyl Chloride	0.412	0.352	0.01	14.6	20.0	
Bromomethane	0.291	0.243	0.01	16.5	20.0	
Chloroethane	0.238	0.222	0.01	6.7	20.0	
Trichlorofluoromethane	0.493	0.450	0.01	8.7	20.0	
1,1-Dichloroethene	0.336	0.296	0.01	11.9	20.0	
Acetone	0.079	0.103	0.01	30.4	20.0	<-
Methylene Chloride	0.269	0.247	0.01	8.2	20.0	
Acrylonitrile	0.072	0.090	0.001	25.0	20.0	<-
trans-1,2-Dichloroethene	0.285	0.261	0.01	8.4	20.0	
Methyl tert-butyl ether	0.605	0.579	0.01	4.3	20.0	
1,1-Dichloroethane	0.470	0.437	0.1	7.0	20.0	
2-Butanone	0.103	0.118	0.01	14.6	20.0	
cis-1,2-Dichloroethene	0.273	0.238	0.01	12.8	20.0	
2,2-Dichloropropane	0.261	0.203	0.01	22.2	20.0	<-
Bromochloromethane	0.136	0.123	0.01	9.6	20.0	
Chloroform	0.456	0.442	0.01	3.1	20.0	
Tetrahydrofuran	0.026	0.025	0.001	3.8	20.0	
1,1,1-Trichloroethane	0.390	0.361	0.01	7.4	20.0	
1,1-Dichloropropene	0.139	0.122	0.01	12.2	20.0	
Carbon Tetrachloride	0.399	0.378	0.01	5.3	20.0	
1,2-Dichloroethane	0.334	0.344	0.01	3.0	20.0	
Benzene	1.057	0.998	0.01	5.6	20.0	
Trichloroethene	0.292	0.244	0.01	16.4	20.0	
1,2-Dichloropropane	0.262	0.253	0.01	3.4	20.0	
Dibromomethane	0.149	0.151	0.01	1.3	20.0	
Bromodichloromethane	0.338	0.326	0.01	3.6	20.0	
cis-1,3-Dichloropropene	0.397	0.348	0.01	12.3	20.0	
4-Methyl-2-pentanone	0.187	0.209	0.01	11.8	20.0	
Toluene	1.099	1.045	0.01	4.9	20.0	
trans-1,3-Dichloropropene	0.354	0.322	0.01	9.0	20.0	
1,1,2-Trichloroethane	0.211	0.210	0.01	0.5	20.0	
Tetrachloroethene	0.353	0.367	0.01	4.0	20.0	
2-Hexanone	0.162	0.182	0.01	12.3	20.0	
Dibromochloromethane	0.335	0.304	0.01	9.2	20.0	
1,2-Dibromoethane	0.279	0.259	0.01	7.2	20.0	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

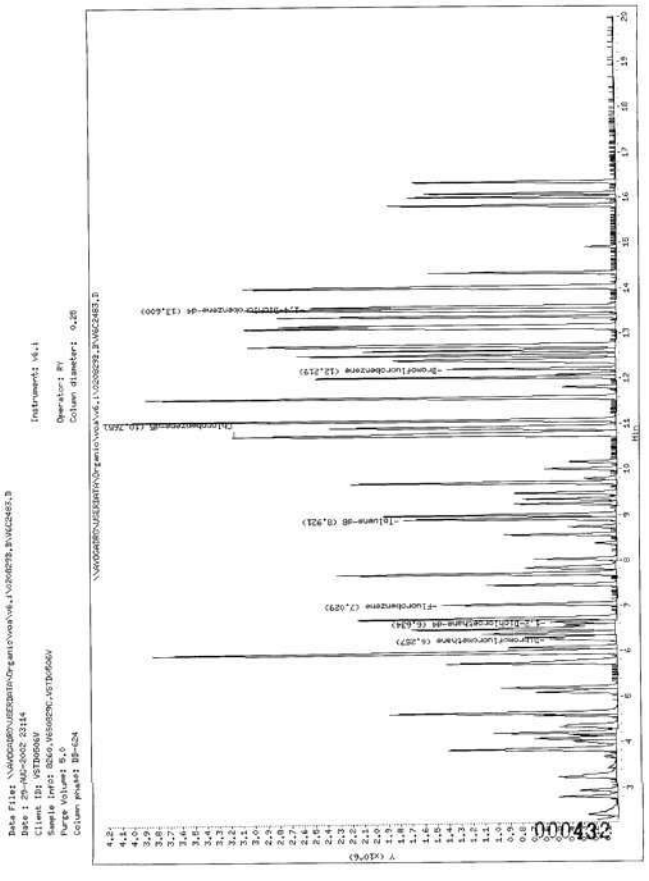
Instrument ID: V6 Calibration Date: 08/31/02 Time: 0028

Lab File ID: V6C2541 Init. Calib. Date(s): 08/20/02 08/20/02

Heated Purge: (Y/N) N Init. Calib. Times: 1010 1231

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D	
Chlorobenzene	0.964	0.869	0.3	9.8	20.0	
1,1,1,2-Tetrachloroethane	0.355	0.320	0.01	9.8	20.0	
Ethylbenzene	0.547	0.477	0.01	12.8	20.0	
Xylene (Total)	0.649	0.592	0.01	8.8	20.0	
Styrene	1.003	0.941	0.01	6.2	20.0	
Bromoform	0.219	0.209	0.1	4.6	20.0	
Isopropylbenzene	1.533	1.449	0.01	5.5	20.0	
1,1,2,2-Tetrachloroethane	0.609	0.620	0.3	1.8	20.0	
Bromobenzene	0.749	0.647	0.01	13.6	20.0	
1,2,3-Trichloropropane	0.754	0.795	0.01	5.4	20.0	
n-Propylbenzene	0.860	0.762	0.01	11.4	20.0	
2-Chlorotoluene	0.722	0.638	0.01	11.6	20.0	
1,3,5-Trimethylbenzene	2.336	2.187	0.01	6.4	20.0	
4-Chlorotoluene	0.752	0.662	0.01	12.0	20.0	
tert-Butylbenzene	2.702	2.395	0.01	11.4	20.0	
1,2,4-Trimethylbenzene	2.361	2.238	0.01	5.2	20.0	
sec-Butylbenzene	3.103	2.925	0.01	5.7	20.0	
4-Isopropyltoluene	2.598	2.453	0.01	5.6	20.0	
1,3-Dichlorobenzene	1.464	1.303	0.01	11.0	20.0	
1,4-Dichlorobenzene	1.498	1.330	0.01	11.2	20.0	
n-Butylbenzene	2.428	2.264	0.01	6.8	20.0	
1,2-Dichlorobenzene	1.368	1.259	0.01	8.0	20.0	
1,2-Dibromo-3-chloropropane	0.102	0.108	0.01	5.9	20.0	
1,2,4-Trichlorobenzene	0.977	0.752	0.01	23.0	20.0	<-
Hexachlorobutadiene	0.629	0.484	0.01	23.0	20.0	<-
Naphthalene	1.829	1.750	0.01	4.3	20.0	
1,2,3-Trichlorobenzene	0.895	0.744	0.01	16.9	20.0	
1-Chlorohexane	0.529	0.442	0.01	16.4	20.0	
Dibromofluoromethane	0.245	0.252	0.01	2.8	20.0	
1,2-Dichloroethane-d4	0.061	0.065	0.01	6.6	20.0	
Toluene-d8	1.254	1.286	0.01	2.6	20.0	
Bromofluorobenzene	0.447	0.454	0.01	1.6	20.0	



Data File: V6C2483.D
Report Date: 10-Sep-2002 17:13

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2483.D
Lab Smp Id: V6S0829C Client Smp ID: VSTD0506V
Inj Date : 29-AUG-2002 23:14
Operator : RY Inst ID: v6.i
Smp Info : 8260,V6S0829C,VSTD0506V
Misc Info : ,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\v68260.m
Meth Date : 10-Sep-2002 17:13 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1	Dichlorodifluoromethane	85	2.035	2.035	(0.289)	491587	50.0000	42
2	Chloromethane	50	2.272	2.272	(0.323)	740053	50.0000	49
3	Vinyl Chloride	62	2.418	2.418	(0.344)	718822	50.0000	49
4	Bromomethane	94	2.814	2.814	(0.400)	469056	50.0000	45
5	Chloroethane	64	2.947	2.947	(0.419)	421406	50.0000	50
6	Trichlorofluoromethane	101	3.240	3.240	(0.461)	825529	50.0000	47
8	1,1-Dichloroethene	96	3.830	3.830	(0.545)	569246	50.0000	48
9	Acetone	43	3.848	3.848	(0.547)	146735	50.0000	52
14	Methylene Chloride	84	4.328	4.328	(0.616)	490350	50.0000	51
17	Methyl tert-butyl ether	73	4.645	4.645	(0.661)	1202629	50.0000	56
16	trans-1,2-Dichloroethene	96	4.645	4.645	(0.661)	516023	50.0000	51
18	1,1-Dichloroethane	63	5.095	5.095	(0.725)	658332	50.0000	51
22	2-Butanone	43	5.734	5.734	(0.816)	196927	50.0000	54
23	cis-1,2-Dichloroethene	96	5.734	5.734	(0.816)	511920	50.0000	53
24	2,2-Dichloropropane	77	5.740	5.740	(0.817)	401681	50.0000	43
27	Bromochloromethane	128	5.995	5.995	(0.853)	265290	50.0000	53

000433

Data File: V6C2483.D
Report Date: 10-Sep-2002 17:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	28 Chloroform	83	6.080	6.080	(0.865)	847429	50.0000	52
S	30 Dibromofluoromethane	113	6.257	6.257	(0.890)	429821	50.0000	49
	31 1,1,1-Trichloroethane	97	6.306	6.306	(0.897)	679705	50.0000	49
	32 1,1-Dichloropropene	110	6.494	6.494	(0.924)	249328	50.0000	50
	33 Carbon Tetrachloride	117	6.500	6.500	(0.925)	702869	50.0000	50
S	35 1,2-Dichloroethane-d4	102	6.634	6.634	(0.944)	116513	50.0000	54
	37 Benzene	78	6.719	6.719	(0.956)	1981661	50.0000	53
	36 1,2-Dichloroethane	62	6.725	6.725	(0.957)	635002	50.0000	54
*	38 Fluorobenzene	96	7.029	7.029	(1.000)	1775039	50.0000	
	39 Trichloroethene	130	7.461	7.461	(1.061)	525303	50.0000	51
	40 1,2-Dichloropropane	63	7.711	7.711	(1.097)	491287	50.0000	53
	42 Dibromomethane	93	7.851	7.851	(1.117)	282063	50.0000	53
	43 Bromodichloromethane	83	8.027	8.027	(1.142)	636628	50.0000	53
	45 cis-1,3-Dichloropropene	75	8.575	8.575	(1.220)	748133	50.0000	53
	46 4-Methyl-2-pentanone	43	8.739	8.739	(1.243)	387800	50.0000	58
S	47 Toluene-d8	98	8.921	8.921	(0.828)	1729913	50.0000	53
	48 Toluene	91	9.001	9.001	(1.280)	2108702	50.0000	54
	49 trans-1,3-Dichloropropene	75	9.260	9.260	(1.316)	674728	50.0000	54
	51 1,1,2-Trichloroethane	97	9.487	9.487	(1.350)	396737	50.0000	53
	53 Tetrachloroethene	164	9.712	9.712	(0.902)	501754	50.0000	52
	54 2-Hexanone	43	9.797	9.797	(0.910)	260993	50.0000	59
	55 Dibromochloromethane	129	10.010	10.010	(0.929)	475941	50.0000	52
	56 1,2-Dibromoethane	107	10.175	10.175	(0.945)	407081	50.0000	53
*	57 Chlorobenzene-d5	117	10.771	10.771	(1.000)	1367625	50.0000	
	58 Chlorobenzene	112	10.807	10.807	(1.003)	1375793	50.0000	52
	59 1,1,1,2-Tetrachloroethane	131	10.899	10.899	(1.012)	507171	50.0000	52
	60 Ethylbenzene	106	10.935	10.935	(1.015)	766852	50.0000	51
	61 m,p-Xylene	106	11.087	11.087	(1.029)	1845150	100.000	100
	62 o-Xylene	106	11.580	11.580	(1.075)	919839	50.0000	53
	64 Styrene	104	11.592	11.592	(1.076)	1512738	50.0000	55
	65 Bromoform	173	11.823	11.823	(1.098)	314309	50.0000	52
	66 Isopropylbenzene	105	12.030	12.030	(1.117)	2279519	50.0000	54
S	68 Bromofluorobenzene	95	12.219	12.219	(1.134)	611029	50.0000	50
	69 1,1,2,2-Tetrachloroethane	83	12.371	12.371	(0.910)	499912	50.0000	53
	70 Bromobenzene	156	12.407	12.407	(0.913)	425043	50.0000	54
	71 1,2,3-Trichloropropane	75	12.432	12.432	(0.915)	436203	50.0000	54
	72 n-Propylbenzene	120	12.529	12.529	(0.922)	688681	50.0000	51
	73 2-Chlorotoluene	126	12.638	12.638	(0.930)	577008	50.0000	51
	74 1,3,5-Trimethylbenzene	105	12.736	12.736	(0.937)	1940636	50.0000	53
	75 4-Chlorotoluene	126	12.766	12.766	(0.940)	599009	50.0000	51
M	63 Xylene (Total)	106				2805189	150.000	160
	76 tert-Butylbenzene	119	13.125	13.125	(0.966)	2238963	50.0000	53
	77 1,2,4-Trimethylbenzene	105	13.180	13.180	(0.970)	1968832	50.0000	54
	78 sec-Butylbenzene	105	13.381	13.381	(0.985)	2546828	50.0000	53
	80 1,3-Dichlorobenzene	146	13.514	13.514	(0.995)	1389465	50.0000	52
	79 4-Isopropyltoluene	119	13.545	13.545	(0.997)	2126381	50.0000	52
*	81 1,4-Dichlorobenzene-d4	152	13.587	13.587	(1.000)	778408	50.0000	

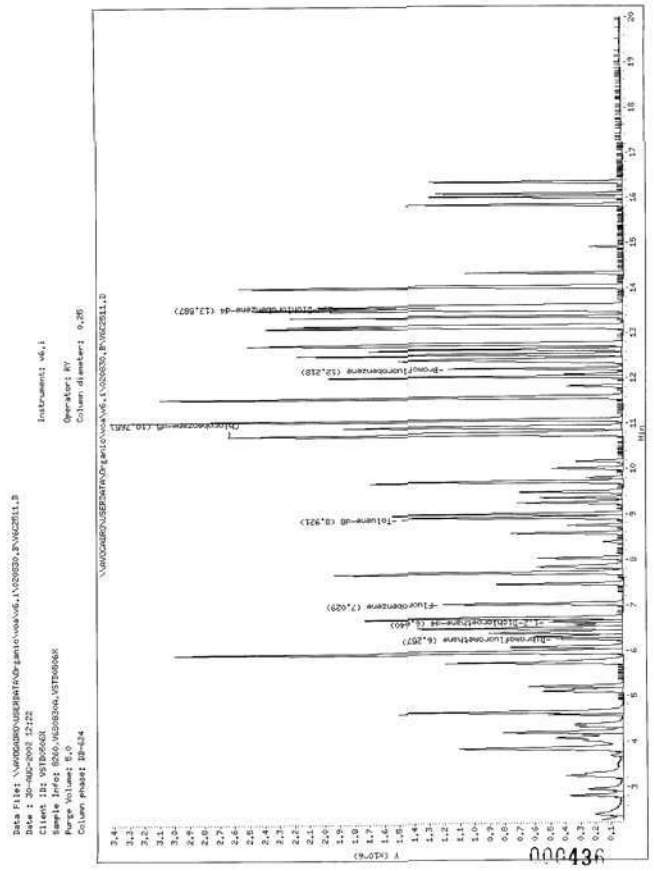
000434

Data File: V6C2483.D
Report Date: 10-Sep-2002 17:13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	82 1,4-Dichlorobenzene	146	13.618	13.618	(1.002)	1205070	50.0000	52
	83 n-Butylbenzene	91	14.013	14.013	(1.031)	1580538	50.0000	52
	84 1,2-Dichlorobenzene	146	14.044	14.044	(1.034)	1123107	50.0000	53
	86 1,2-Dibromo-3-chloropropane	75	14.908	14.908	(1.097)	84345	50.0000	53
	87 1,2,4-Trichlorobenzene	180	15.826	15.826	(1.165)	817280	50.0000	54
	88 Hexachlorobutadiene	225	16.009	16.009	(1.178)	453815	50.0000	46
	89 Naphthalene	128	16.094	16.094	(1.184)	1712429	50.0000	60
	90 1,2,3-Trichlorobenzene	180	16.355	16.355	(1.204)	743519	50.0000	53

Y/L
09/10/02

000435



000436

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2511.D
Report Date: 10-Sep-2002 17:16

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2511.D
Lab Smp Id: V6S0830A Client Smp ID: VSTD0506X
Inj Date : 30-AUG-2002 12:22
Operator : RY Inst ID: v6.i
Smp Info : 8260,V6S0830A,VSTD0506X
Misc Info : ,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\v68260.m
Meth Date : 10-Sep-2002 17:16 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

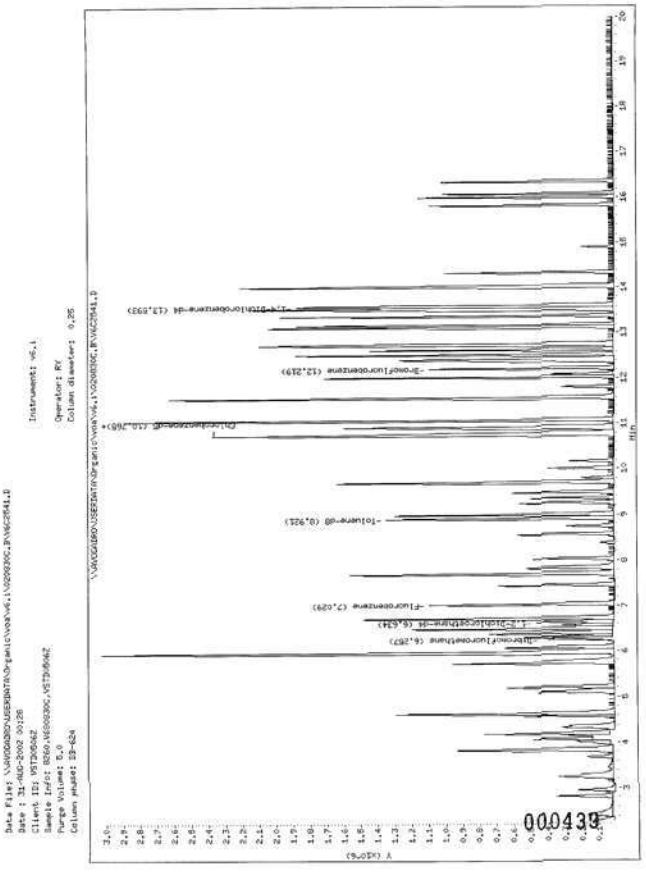
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	2 Chloromethane	50	2.266	2.266	(0.322)	579384	50.0000	47
	3 Vinyl Chloride	62	2.412	2.412	(0.343)	551813	50.0000	46
	4 Bromomethane	94	2.820	2.820	(0.401)	378567	50.0000	45
	5 Chloroethane	64	2.953	2.953	(0.420)	332172	50.0000	48
	8 1,1-Dichloroethene	96	3.836	3.836	(0.546)	476881	50.0000	49
	9 Acetone	43	3.848	3.848	(0.547)	150750	50.0000	66
	14 Methylene Chloride	84	4.377	4.377	(0.623)	384743	50.0000	50
	17 Methyl tert-butyl ether	73	4.651	4.651	(0.662)	948305	50.0000	54
	16 trans-1,2-Dichloroethene	96	4.645	4.645	(0.661)	399538	50.0000	49
	18 1,1-Dichloroethane	63	5.095	5.095	(0.725)	702467	50.0000	52
	22 2-Butanone	43	5.734	5.734	(0.816)	185997	50.0000	62
	23 cis-1,2-Dichloroethene	96	5.734	5.734	(0.816)	390421	50.0000	50
	28 Chloroform	83	6.080	6.080	(0.865)	673379	50.0000	51
$	30 Dibromofluoromethane	113	6.257	6.257	(0.890)	356021	50.0000	50
	31 1,1,1-Trichloroethane	97	6.305	6.305	(0.897)	542506	50.0000	48
	33 Carbon Tetrachloride	117	6.500	6.500	(0.925)	555628	50.0000	48

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2511.D
Report Date: 10-Sep-2002 17:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$	35 1,2-Dichloroethane-d4	102	6.660	6.660	(0.945)	92366	50.0000	53
	37 Benzene	78	6.725	6.725	(0.957)	1560549	50.0000	51
	36 1,2-Dichloroethane	62	6.725	6.725	(0.957)	531294	50.0000	54
*	38 Fluorobenzene	96	7.029	7.029	(1.000)	1441750	50.0000	
	39 Trichloroethene	130	7.455	7.455	(1.061)	397863	50.0000	47
	40 1,2-Dichloropropane	63	7.717	7.717	(1.098)	393802	50.0000	52
	43 Bromodichloromethane	83	8.027	8.027	(1.142)	504425	50.0000	52
	45 cis-1,3-Dichloropropene	75	8.568	8.568	(1.219)	592506	50.0000	52
	46 4-Methyl-2-pentanone	43	8.745	8.745	(1.244)	352142	50.0000	65
$	47 Toluene-d8	98	8.921	8.921	(0.828)	1442171	50.0000	52
	48 Toluene	91	9.006	9.006	(1.282)	1439233	50.0000	52
	49 trans-1,3-Dichloropropene	75	9.256	9.256	(1.317)	553053	50.0000	54
	51 1,1,2-Trichloroethane	97	9.487	9.487	(1.350)	319271	50.0000	52
	53 Tetrachloroethene	164	9.712	9.712	(0.902)	358330	50.0000	46
	54 2-Hexanone	43	9.803	9.803	(0.910)	243601	50.0000	68
	55 Dibromochloromethane	129	10.016	10.016	(0.930)	376148	50.0000	51
*	57 Chlorobenzene-d5	117	10.771	10.771	(1.000)	1107904	50.0000	
	58 Chlorobenzene	112	10.807	10.807	(1.003)	1059741	50.0000	50
	60 Ethylbenzene	106	10.941	10.941	(1.016)	585474	50.0000	48
	61 m,p-Xylene	106	11.087	11.087	(1.029)	1455247	100.000	100
	62 o-Xylene	106	11.580	11.580	(1.075)	700937	50.0000	50
	64 Styrene	104	11.592	11.592	(1.076)	1163275	50.0000	52
	65 Bromoform	173	11.823	11.823	(1.098)	247653	50.0000	51
$	68 Bromofluorobenzene	95	12.218	12.218	(1.134)	506810	50.0000	51
	69 1,1,2,2-Tetrachloroethane	83	12.371	12.371	(0.910)	432565	50.0000	56
M	63 Xylene (Total)	106				2156184	150.000	150
*	81 1,4-Dichlorobenzene-d4	152	13.587	13.587	(1.000)	628153	50.0000	

Yn
09/10/02



Data File: V6C2541.D
Report Date: 01-Sep-2002 17:15

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2541.D
Lab Smp Id: V6S0830C Client Smp ID: VSTD0506Z
Inj Date : 31-AUG-2002 00:28
Operator : RY Inst ID: v6.i
Smp Info : 8260,V6S0830C,VSTD0506Z
Misc Info : ,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 01-Sep-2002 17:15 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 18 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	1 Dichlorodifluoromethane	85	2.035	2.035	(0.289)	270598	50.0000	32
	2 Chloromethane	50	2.266	2.266	(0.322)	474744	50.0000	43
	3 Vinyl Chloride	62	2.419	2.418	(0.344)	455503	50.0000	43
	4 Bromomethane	94	2.814	2.814	(0.400)	313658	50.0000	42
	5 Chloroethane	64	2.954	2.954	(0.420)	287513	50.0000	47
	6 Trichlorofluoromethane	101	3.239	3.239	(0.461)	581668	50.0000	44
	8 1,1-Dichloroethene	96	3.829	3.829	(0.545)	382225	50.0000	44
	9 Acetone	43	3.844	3.848	(0.547)	133373	50.0000	65
	14 Methylene Chloride	84	4.328	4.326	(0.616)	319674	50.0000	46
	15 Acrylonitrile	53	4.584	4.584	(0.652)	581505	250.000	310
	17 Methyl tert-butyl ether	73	4.645	4.645	(0.661)	748682	50.0000	48
	16 trans-1,2-Dichloroethene	96	4.645	4.645	(0.661)	337760	50.0000	46
	18 1,1-Dichloroethane	63	5.095	5.095	(0.725)	564581	50.0000	46
	22 2-Butanone	43	5.734	5.734	(0.816)	151834	50.0000	57
	23 cis-1,2-Dichloroethene	96	5.734	5.734	(0.816)	307910	50.0000	44
	24 2,2-Dichloropropane	77	5.740	5.740	(0.817)	262935	50.0000	39

Data File: V6C2541.D
Report Date: 01-Sep-2002 17:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ng/L)
	37 Bromochloromethane	128	5.995	5.995	(0.853)	169083	50.0000	45
	38 Tetrahydrofuran	72	6.063	6.063	(0.862)	31862	50.0000	48
	39 Chloroform	83	6.080	6.080	(0.865)	570865	50.0000	48
9	40 Dibromofluoromethane	113	6.251	6.251	(0.889)	329308	50.0000	52
	41 1,1,1-Trichloroethane	97	6.306	6.306	(0.897)	466284	50.0000	45
	42 1,1-Dichloropropene	110	6.488	6.488	(0.923)	189192	50.0000	44
	43 Carbon Tetrachloride	117	6.500	6.500	(0.925)	488619	50.0000	47
6	44 1,2-Dichloroethane-d4	102	6.640	6.640	(0.945)	84513	50.0000	44
	45 Benzene	78	6.719	6.719	(0.956)	1289530	50.0000	47
	46 1,2-Dichloroethane	62	6.719	6.719	(0.956)	444236	50.0000	52
*	47 Fluorobenzene	96	7.039	7.039	(1.000)	1293196	50.0000	
	48 Trichloroethene	130	7.461	7.461	(1.061)	315683	50.0000	42
	49 1,2-Dichloropropane	63	7.711	7.711	(1.097)	328593	50.0000	48
	50 Dibromomethane	93	7.861	7.861	(1.117)	189262	50.0000	50
	51 Bromodichloromethane	83	8.027	8.027	(1.142)	420993	50.0000	48
	52 cis-1,3-Dichloropropene	75	8.269	8.269	(1.319)	449101	50.0000	44
	53 4-Methyl-2-pentanone	43	8.746	8.746	(1.244)	270577	50.0000	36
9	54 Toluene-d8	98	8.831	8.831	(0.829)	1294916	50.0000	51
	55 Toluene	91	9.001	9.001	(1.280)	1330613	50.0000	46
	56 trans-1,3-Dichloropropene	75	9.250	9.250	(1.315)	414296	50.0000	48
	57 1,1,2-Trichloroethane	97	9.487	9.487	(1.350)	271683	50.0000	50
	58 Tetrachloroethene	164	9.712	9.712	(0.902)	349734	50.0000	52
	59 2-Hexanone	43	9.797	9.797	(0.910)	182915	50.0000	56
	60 Dibromochloromethane	129	10.010	10.010	(0.930)	305823	50.0000	45
	61 1,2-Dibromoethane	107	10.169	10.169	(0.945)	340884	50.0000	46
	115 1-Chlorohexane	91	10.759	10.759	(0.999)	443306	50.0000	42
*	62 Chlorobenzene-d5	117	10.765	10.765	(1.006)	1066441	50.0000	
	63 Chlorobenzene	112	10.808	10.808	(1.003)	874422	50.0000	45
	64 1,1,1,2-Tetrachloroethane	131	10.899	10.899	(1.012)	123631	50.0000	48
	65 Ethylbenzene	106	10.943	10.943	(1.016)	490146	50.0000	44
	66 m,p-Xylene	106	11.087	11.087	(1.030)	1214582	100.000	92
	67 o-Xylene	106	11.680	11.680	(1.076)	572217	50.0000	45
	68 Styrene	104	11.692	11.692	(1.077)	847158	50.0000	47
	69 Bromoform	173	11.823	11.823	(1.098)	210890	50.0000	48
	70 Isopropylbenzene	105	12.030	12.030	(1.118)	1358419	50.0000	47
6	71 Bromofluorobenzene	95	12.299	12.299	(1.139)	4972.85	40.0000	51
	72 1,1,2,2-Tetrachloroethane	83	12.351	12.351	(0.910)	167171	50.0000	51
	73 Bromobenzene	156	12.407	12.407	(0.913)	363275	50.0000	43
	74 1,2,3-Trichloropropane	75	12.422	12.422	(0.915)	431923	50.0000	53
	75 n-Propylbenzene	120	12.529	12.529	(0.923)	482682	50.0000	44
	76 2-Chlorotoluene	126	12.638	12.638	(0.230)	338276	50.0000	44
	77 1,3,5-Trimethylbenzene	105	12.724	12.724	(0.937)	3296876	55.0000	47
	78 4-Chlorotoluene	126	12.760	12.760	(0.939)	393793	50.0000	44
M	42 Xylenes (Total)	106				1786799	150.000	140
	79 tert-Butylbenzene	119	13.125	13.125	(0.966)	1419701	50.0000	44
	80 1,2,4-Trimethylbenzene	105	13.180	13.180	(0.970)	1315552	50.0000	47
	81 sec-Butylbenzene	105	13.301	13.301	(0.965)	1771014	50.0000	47

000441

Data File: V6C2541.D
Report Date: 01-Sep-2002 17:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ng/L)
	82 1,3-Dichlorobenzene	146	13.511	13.514	(0.995)	773041	50.0000	44
	83 4-Isopropyltoluene	119	13.545	13.545	(0.977)	1453404	50.0000	47
-	84 1,4-Dichlorobenzene-d4	152	13.587	13.587	(1.000)	892504	50.0000	
	85 1,4-Dichlorobenzene	146	13.616	13.616	(1.002)	766233	50.0000	44
	86 n-Butylbenzene	91	14.011	14.011	(1.031)	1361782	50.0000	47
	87 1,2-Dichlorobenzene	146	14.044	14.044	(1.034)	744160	50.0000	46
	88 1,2-Dibromo-3-chloropropane	75	14.396	14.396	(1.037)	83684	50.0000	53
	89 1,2,4-Trichlorobenzene	180	15.824	15.824	(1.165)	445404	50.0000	38
	90 Hexachlorobutadiene	225	16.009	16.009	(1.178)	287696	50.0000	38
	91 Naphthalene	128	16.094	16.094	(1.184)	1036998	50.0000	49
	92 1,2,3-Trichlorobenzene	180	16.259	16.255	(1.204)	660736	50.0000	43

09/10/02

000442

Data File: \\WVGORDON\USERDATA\Organic\voa\v6.i\020820.B\V6C2490.D
Page 2

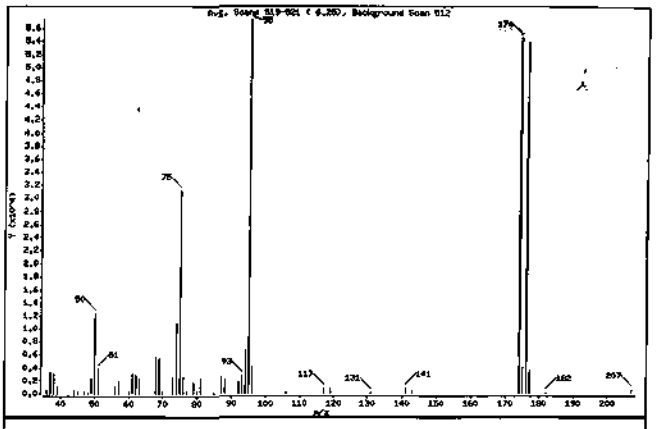
Date : 20-AUG-2002 09:18

Client ID: BFB6Y
Instrument: v6.i

Sample Info: 8260,V6T08200.BFB6Y

Operator: KV

Column phase: DB-624
Column diameter: 0.20
i.Dfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.51
75	30.00 - 60.00% of mass 95	54.24
96	5.00 - 9.00% of mass 95	7.06
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	98.23
175	5.00 - 9.00% of mass 174	7.21 (7.27)
176	95.00 - 101.00% of mass 174	93.94 (98.64)
177	5.00 - 9.00% of mass 176	6.25 (6.66)

000443

Data File: \\WVGORDON\USERDATA\Organic\voa\v6.i\020820.B\V6C2490.D
Page 3

Date : 20-AUG-2002 09:18

Client ID: BFB6Y
Instrument: v6.i

Sample Info: 8260,V6T08200.BFB6Y

Operator: KV

Column phase: DB-624
Column diameter: 0.20

Data File: V6C2490.D
Spectrum: Avg. Scans 819-821 (6.26), Background Scan 812
Location of Maximum: 95.00
Number of points: 48

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	876	60.00	358	89.00	421	121.00	191
37.00	3328	61.00	3917	91.00	2369	141.00	816
38.00	3619	62.00	3019	93.00	193	143.00	424
39.00	1237	63.00	2216	97.00	2813	174.00	54615
44.00	874	68.00	8743	88.00	2186	175.00	4134
45.00	233	69.00	6498	92.00	1848	176.00	53898
47.00	386	70.00	229	93.00	2794	177.00	3584
48.00	172	73.00	2565	94.00	6604	182.00	167
49.00	2430	74.00	10966	95.00	57282	207.00	603
50.00	12337	75.00	21112	96.00	4056		
51.00	2709	76.00	2685	104.00	239		
56.00	1213	77.00	396	117.00	736		
57.00	1918	79.00	1680	119.00	708		

Data File: \\AVOCADRO\USERDATA\Organic\vos\v6.1\0206820.B\WSC2190.D

Page 1

Date : 29-AUG-2002 09:18

Client ID: BFB6V

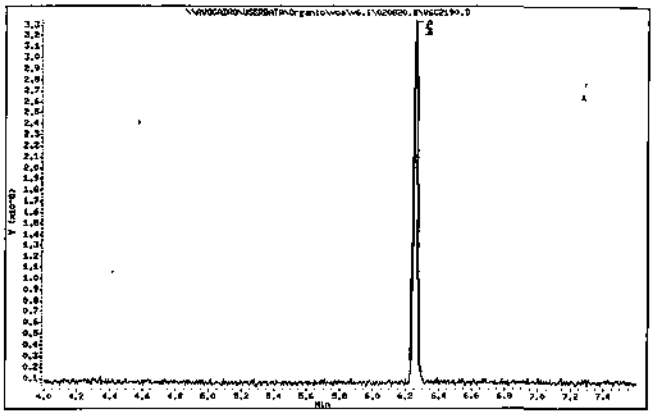
Instrument: v6.1

Sample Info: 8260,V6T08298,BFB6V

Operator: RY

Column phase: DB-624

Column diameter: 0.25



Data File: \\AVOCADRO\USERDATA\Organic\vos\v6.1\0206298.B\WSC2481.D

Page 2

Date : 29-AUG-2002 22:18

Client ID: BFB6V

Instrument: v6.1

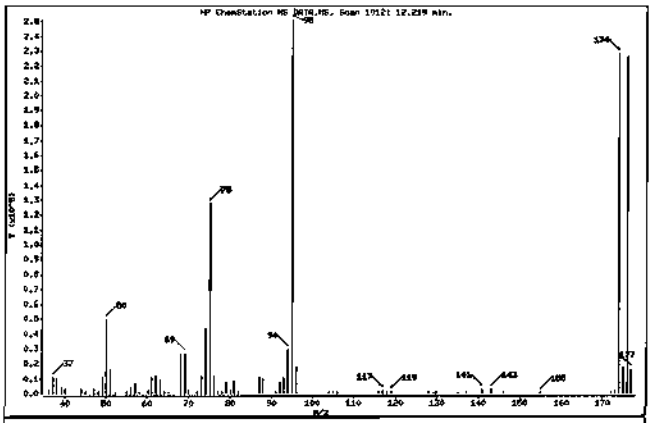
Sample Info: 8260,V6T08298,BFB6V

Operator: RY

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	10.00 - 40.00% of mass 95	19.70
75	30.00 - 60.00% of mass 95	50.86
96	5.00 - 9.00% of mass 95	7.02
173	Less than 2.00% of mass 174	0.64 (0.76)
174	50.00 - 100.00% of mass 95	90.28
175	5.00 - 9.00% of mass 174	7.04 (7.76)
176	95.00 - 101.00% of mass 174	99.22 (99.78)
177	5.00 - 9.00% of mass 176	6.84 (7.20)

Data File: \\AVOCADRO\USERDATA\Organic\vos\v6.1\0206298.B\WSC2481.D

Page 2

Date : 29-AUG-2002 22:18

Client ID: BFB6V

Instrument: v6.1

Sample Info: 8260,V6T08298,BFB6V

Operator: RY

Column phase: DB-624

Column diameter: 0.25

Data File: WSC2481.D
Spectrum: HP ChemStation MS Data.MS, Scan 1912: 12.219 min.
Location of Maximum: 95.10
Number of points: 67

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	2131	60.10	2183	80.00	2243	119.00	1408
37.10	11101	61.10	10734	81.00	8793	127.90	988
38.10	10664	62.10	12039	82.00	1857	129.10	814
39.20	4813	63.10	8981	87.10	11080	129.90	1047
40.10	3218	64.10	1274	87.90	10382	134.90	860
44.10	2377	65.10	669	91.00	1377	137.00	602
45.00	1914	68.00	26296	92.00	7321	140.90	2793
47.10	2228	69.10	26840	93.00	10254	142.00	3158
48.10	1161	70.00	1846	94.00	29304	145.90	601
49.10	11284	71.90	1057	98.10	281329	154.90	628
50.10	49520	73.00	11847	96.00	17540	172.00	1057
51.10	10971	74.10	42752	103.90	1120	173.00	1896
52.20	724	75.10	127909	105.00	656	174.00	228166
55.00	977	76.10	11686	106.00	1353	175.00	17688
56.10	4040	77.00	1706	118.90	921	176.00	226782
57.10	7037	77.90	984	116.90	1748	176.90	15432
59.10	579	79.00	7791	119.00	634		

Data File: \\AVOCADRO\USERDATA\Organic\vos\v6.1\0206298.B\WSC2481.D

Page 1

Date : 29-AUG-2002 22:18

Client ID: BFB6V

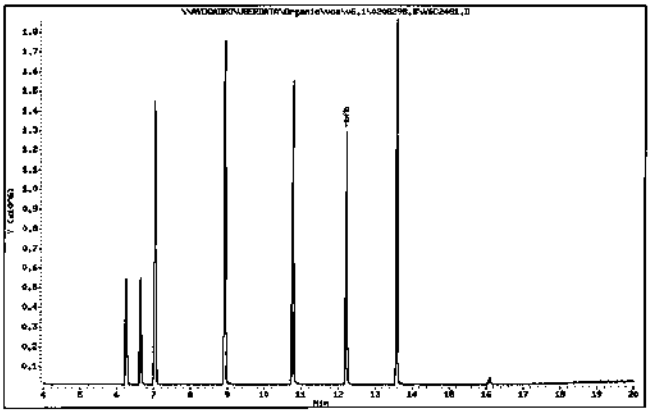
Instrument: v6.1

Sample Info: 8260,V6T08298,BFB6V

Operator: RY

Column phase: DB-624

Column diameter: 0.25



Data File: \\NVOGADRO\USERDATA\Organic\vos\v6.1\v020830.B\V6C2810.D Page 2

Date : 30-AUG-2002 11:06

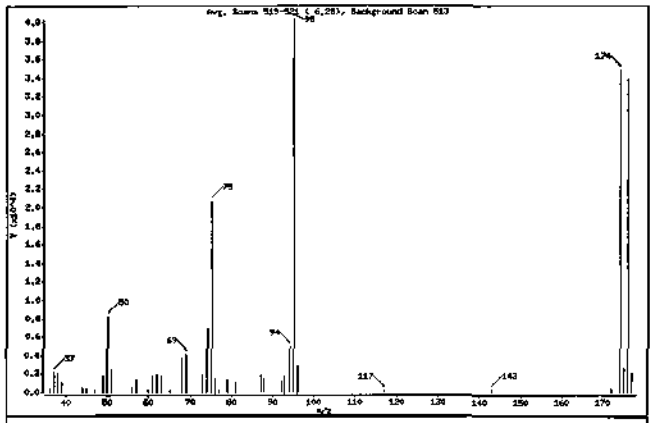
Client ID: BF86K Instrument: v6.1

Sample Info: 8260,V6T08300,BF86K

Operator: KY

Column phase: DB-624 Column diameter: 0.25

1 bfh



m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
98	Base Peak, 100% relative abundance	100.00
80	15.00 - 40.00% of mass 98	22.24
78	30.00 - 60.00% of mass 98	61.34
96	5.00 - 9.00% of mass 98	7.62
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 98	86.79
175	5.00 - 9.00% of Mass 174	4.84 (5.57)
176	95.00 - 101.00% of mass 174	84.98 (97.90)
177	5.00 - 9.00% of mass 176	8.21 (9.20)

Data File: \\NVOGADRO\USERDATA\Organic\vos\v6.1\v020830.B\V6C2810.D Page 3

Date : 30-AUG-2002 11:06

Client ID: BF86K Instrument: v6.1

Sample Info: 8260,V6T08300,BF86K

Operator: KY

Column phase: DB-624 Column diameter: 0.25

Data File: V6C2810.D
Spectrum: Avg. Scans 819-821 (6.28), Background Scan 813
Location of Maximum: 98.00
Number of points: 60

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	500	57.00	1389	76.00	1468	137.00	178
37.00	2147	60.00	309	77.00	122	143.00	250
38.00	1946	61.00	1772	79.00	1377	172.00	364
39.00	978	62.00	1936	81.00	1090	174.00	34794
44.00	438	63.00	1791	87.00	1466	175.00	2434
45.00	401	65.00	178	88.00	1801	176.00	33848
47.00	180	68.00	3723	92.00	1181	177.00	2697
49.00	1863	69.00	4113	93.00	1738		
50.00	8224	73.00	1843	94.00	4868		
51.00	2476	74.00	6967	98.00	40272		
56.00	539	75.00	20472	96.00	2832		

Data File: \\NVOGADRO\USERDATA\Organic\vos\v6.1\v020830.B\V6C2810.D Page 1

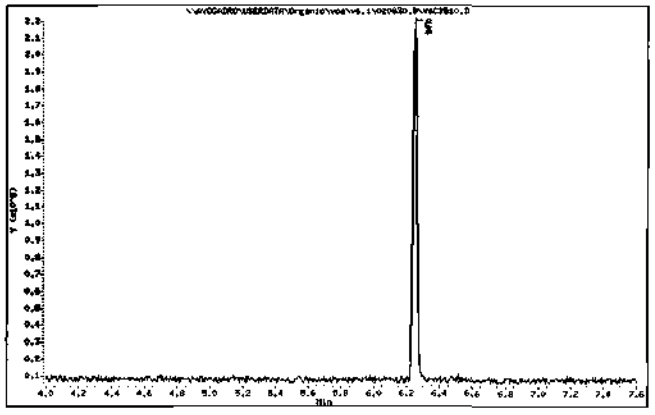
Date : 30-AUG-2002 11:06

Client ID: BF86K Instrument: v6.1

Sample Info: 8260,V6T08300,BF86K

Operator: KY

Column phase: DB-624 Column diameter: 0.25



Data File: \\NVOGADRO\USERDATA\Organic\vos\v6.1\v020830C.B\V6C2840.D Page 2

Date : 30-AUG-2002 23:33

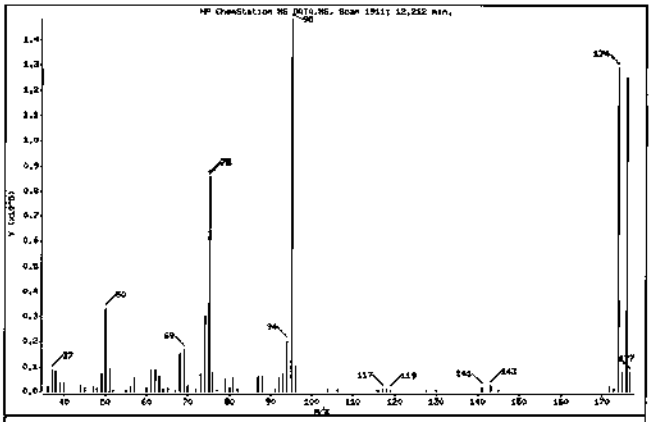
Client ID: BF86Z Instrument: v6.1

Sample Info: 8260,v6t0830B,BF86Z

Operator: KY

Column phase: DB-624 Column diameter: 0.25

1 bfh



m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
98	Base Peak, 100% relative abundance	100.00
80	15.00 - 40.00% of mass 98	22.24
78	30.00 - 60.00% of mass 98	67.70
96	5.00 - 9.00% of mass 98	6.88
173	Less than 2.00% of mass 174	0.79 (0.80)
174	50.00 - 100.00% of mass 98	84.95
175	5.00 - 9.00% of Mass 174	5.32 (6.12)
176	95.00 - 101.00% of mass 174	84.02 (98.96)
177	5.00 - 9.00% of mass 176	8.18 (9.18)

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2540A.D Page 3

Date : 30-AUG-2002 23:33

Client ID: BFB6Z Instrument: v6.i

Sample Info: 0260,V6T0830B,BFB6Z

Operator: RY

Column phase: DB-624 Column diameter: 0.25

Data File: V6C2540A.D
Spectrum: HP ChemStation MS DATA.MS, Scan 17111: 12.212 min.
Location of Maximum: 98.10
Number of points: 62

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	1907	60.00	1618	79.00	4649	117.10	1183
37.10	8979	61.10	9022	80.00	1358	118.00	885
38.10	8064	62.10	9037	91.00	9829	119.00	825
39.10	3902	63.00	6222	92.00	1497	127.80	701
40.10	3291	64.00	1194	97.00	5900	130.00	642
44.10	2338	65.10	1377	98.00	6262	141.00	1752
45.10	1751	67.00	598	91.00	850	143.00	2397
47.10	2048	68.10	15250	92.00	5835	144.90	574
48.00	1278	69.10	16762	93.00	7087	171.90	2103
49.10	7229	70.00	2295	94.00	20112	172.90	881
50.10	33956	72.00	1115	95.10	148608	174.00	129072
51.10	9249	73.10	7187	96.10	19218	175.00	7905
51.90	531	74.10	29504	104.00	885	176.00	128152
55.00	839	75.10	68762	106.10	1001	176.90	7709
56.00	2126	76.00	7770	115.00	620		
57.10	5675	77.00	692	116.10	537		

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2540A.D Page 1

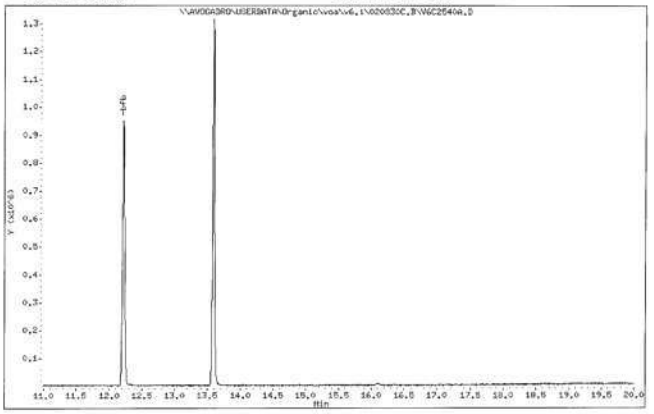
Date : 30-AUG-2002 23:33

Client ID: BFB6Z Instrument: v6.i

Sample Info: 0260,V6T0830B,BFB6Z

Operator: RY

Column phase: DB-624 Column diameter: 0.25



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK6V

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: V6B0829B

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2485

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK6V

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: V6B0829B

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2485

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK6V

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: V6B0829B

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2485

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

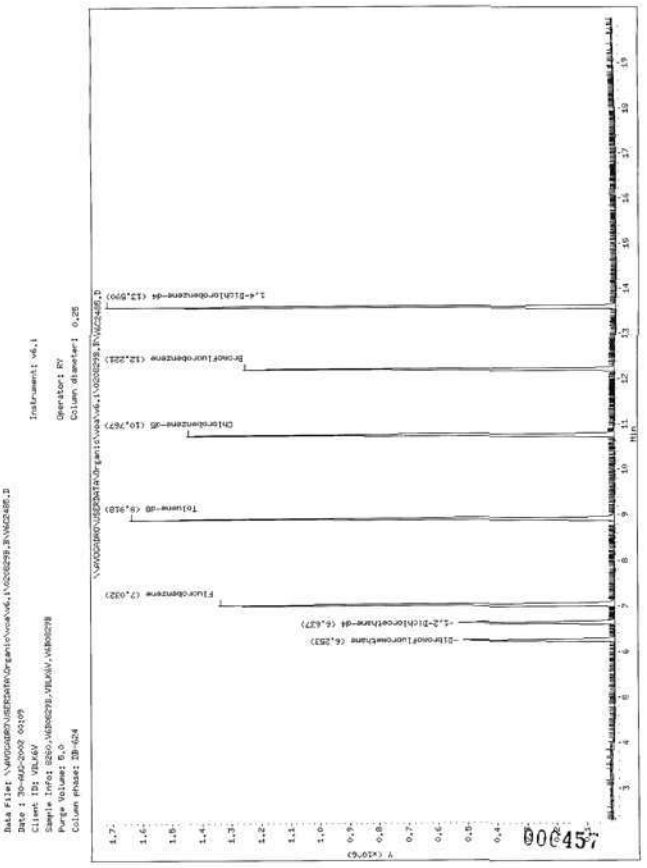
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

000456



000457

Data File: V6C2485.D
Report Date: 11-Sep-2002 12:20

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2485.D
Lab Smp Id: V6B0829B Client Smp ID: VBLK6V
Inj Date : 30-AUG-2002 00:09
Operator : RY Inst ID: v6.i
Smp Info : 8260,V6B0829B,VBLK6V,V6B0829B
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\v68260.m
Meth Date : 10-Sep-2002 17:36 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 30 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

000459

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK6X

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: V6B0830A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2512

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

000460

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK6X

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: V6B0830A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2512

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) *Dilution Factor: 1.0*

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000461

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK6X

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: V6B0830A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2512

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) *Dilution Factor: 1.0*

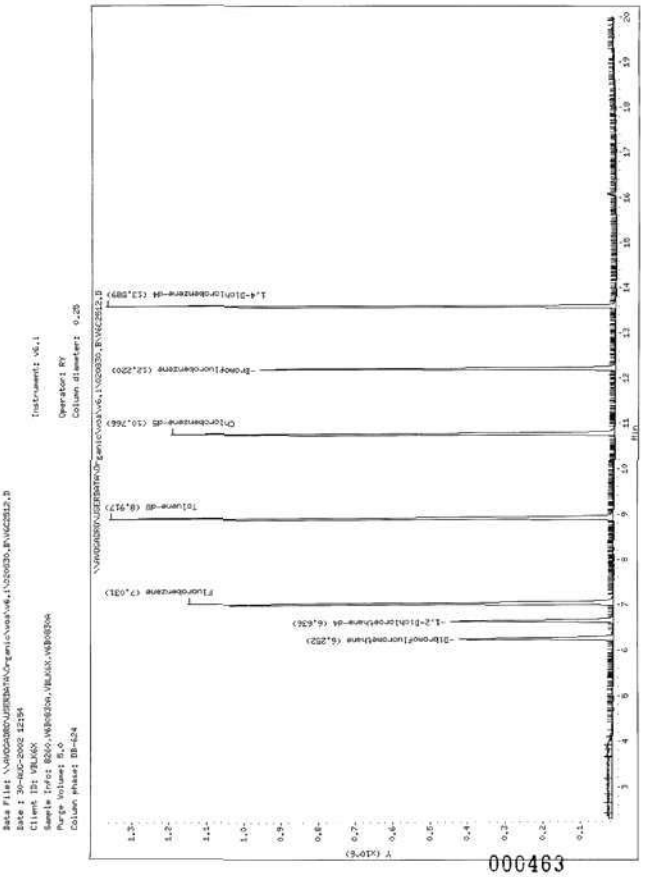
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

000462



000463

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2512.D
Report Date: 10-Sep-2002 17:16

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2512.D
Lab Smp Id: V6B0830A Client Smp ID: VBLK6X
Inj Date : 30-AUG-2002 12:54
Operator : RY Inst ID: v6.i
Smp Info : 8260,V6B0830A,VBLK6X,V6B0830A
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\v68260.m
Meth Date : 10-Sep-2002 17:16 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS: ON-COLUMN (ug/L)	FINAL (ug/L)
S 30 Dibromofluoromethane	113	6.252	6.257	(0.889)	336023	50.0597	50
S 35 1,2-Dichloroethane-d4	102	6.636	6.640	(0.944)	80751	48.4758	48
* 36 Fluorobenzene	96	7.031	7.029	(1.000)	1372100	50.0000	
S 47 Toluene-d8	98	8.923	8.921	(0.829)	1313232	54.2953	54
* 57 Chlorobenzene-d5	117	10.766	10.771	(1.000)	963267	50.0000	
S 68 Bromofluorobenzene	95	12.214	12.218	(1.134)	420778	48.9191	49
* 81 1,4-Dichlorobenzene-d4	152	13.589	13.587	(1.000)	801323	50.0000	

YR
09/10/02

000464

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2512.D
Report Date: 10-Sep-2002 17:16

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2512.D
Lab Smp Id: V6B0830A Client Smp ID: VBLK6X
Inj Date : 30-AUG-2002 12:54
Operator : RY Inst ID: v6.i
Smp Info : 8260,V6B0830A,VBLK6X,V6B0830A
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\v68260.m
Meth Date : 10-Sep-2002 17:16 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK6Z

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: V6B0830C
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2543
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK6Z

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: V6B0830C
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2543
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

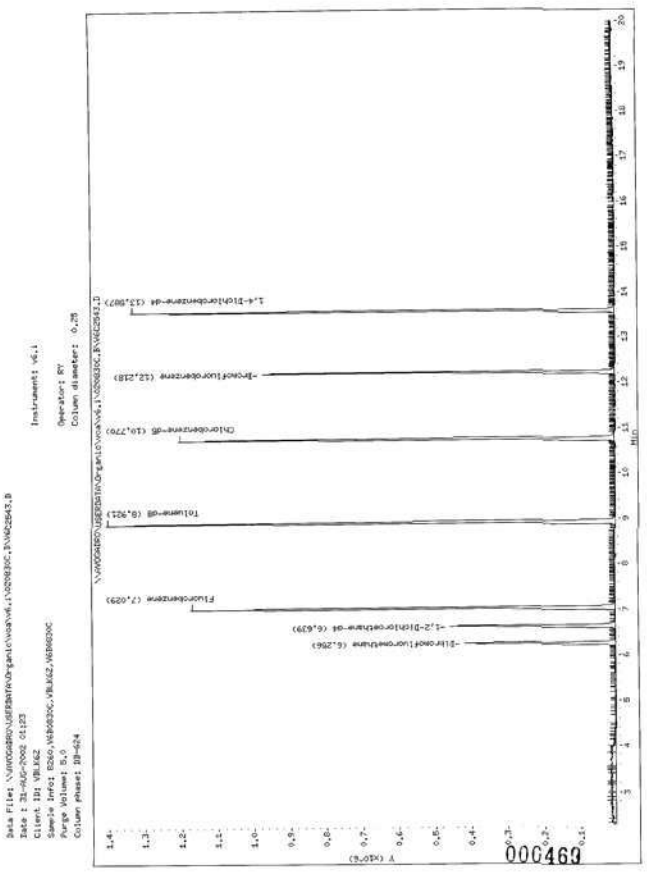
1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK6Z

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: V6B0830C
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2543
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				



Data File: V6C2543.D
Report Date: 10-Sep-2002 17:22

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2543.D
Lab Smp Id: V6B0830C — Client Smp ID: VBLK6Z
Inj Date : 31-AUG-2002 01:23
Operator : RY — Inst ID: v6.i
Smp Info : 8260,V6B0830C,VBLK6Z,V6B0830C
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl — Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 — Cal File: V6C2196.D
Als bottle: 20 — QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE — Compound Sublist: HRP.sub
Target Version: 4.03

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
S	30 Dibromofluoromethane	113	6.256	6.252	(0.890)	317844	50.8863	51
S	35 1,2-Dichloroethane-d4	102	6.639	6.641	(0.945)	82278	49.9374	50
*	38 Fluorobenzene	96	7.029	7.030	(1.000)	1357126	50.0000	
S	47 Toluene-d8	98	8.921	8.916	(0.828)	1310446	55.1276	55
*	57 Chlorobenzene-d5	117	10.770	10.765	(1.000)	948156	50.0000	
S	68 Bromofluorobenzene	95	12.218	12.219	(1.134)	411848	48.6440	49
*	83 1,4-Dichlorobenzene-d4	152	13.587	13.586	(1.000)	498453	50.0000	

Yn
09/11/02

000470

Data File: V6C2543.D
Report Date: 10-Sep-2002 17:22

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2543.D
Lab Smp Id: V6B0830C — Client Smp ID: VBLK6Z
Inj Date : 31-AUG-2002 01:23
Operator : RY — Inst ID: v6.i
Smp Info : 8260,V6B0830C,VBLK6Z,V6B0830C
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 10-Sep-2002 15:44 mtl — Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 — Cal File: V6C2196.D
Als bottle: 20 — QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE — Compound Sublist: HRP.sub
Target Version: 4.03

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

000471

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: V6VLCS

Lab Name: MITKEM CORPORATION — Contract:
Lab Code: MITKEM — Case No.: — SAS No.: — SDG No.: A1243
Matrix: (soil/water) WATER — Lab Sample ID: V6L0829B
Sample wt/vol: 5.000 (g/mL) ML — Lab File ID: V6C2486
Level: (low/med) LOW — Date Received: _____
% Moisture: not dec. _____ — Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) — Dilution Factor: 1.0
Soil Extract Volume: _____(uL) — Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	41	
74-87-3	Chloromethane	48	
75-01-4	Vinyl Chloride	48	
74-83-9	Bromomethane	45	
75-00-3	Chloroethane	49	
75-69-4	Trichlorofluoromethane	49	
75-35-4	1,1-Dichloroethene	50	
67-64-1	Acetone	57	
75-09-2	Methylene Chloride	53	
107-13-1	Acrylonitrile	300	
156-60-5	trans-1,2-Dichloroethene	51	
1634-04-4	Methyl tert-butyl ether	56	
75-34-3	1,1-Dichloroethane	53	
78-93-3	2-Butanone	55	
156-59-2	cis-1,2-Dichloroethene	53	
590-20-7	2,2-Dichloropropane	42	
74-97-5	Bromochloromethane	53	
67-66-3	Chloroform	53	
109-99-9	Tetrahydrofuran	48	
71-55-6	1,1,1-Trichloroethane	50	
563-58-6	1,1-Dichloropropene	50	
56-23-5	Carbon Tetrachloride	50	
107-06-2	1,2-Dichloroethane	54	
71-43-2	Benzene	53	
79-01-6	Trichloroethene	50	
78-87-5	1,2-Dichloropropane	54	
74-95-3	Dibromomethane	54	
75-27-4	Bromodichloromethane	53	
10061-01-5	cis-1,3-Dichloropropene	53	
108-10-1	4-Methyl-2-pentanone	59	
108-88-3	Toluene	54	
10061-02-6	trans-1,3-Dichloropropene	54	
79-00-5	1,1,2-Trichloroethane	54	
127-18-4	Tetrachloroethene	51	

FORM I VOA — OLM03.0

000472

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V6VLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: V6L0829B

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2486

Level: (low/med) LOW Date Received: _____

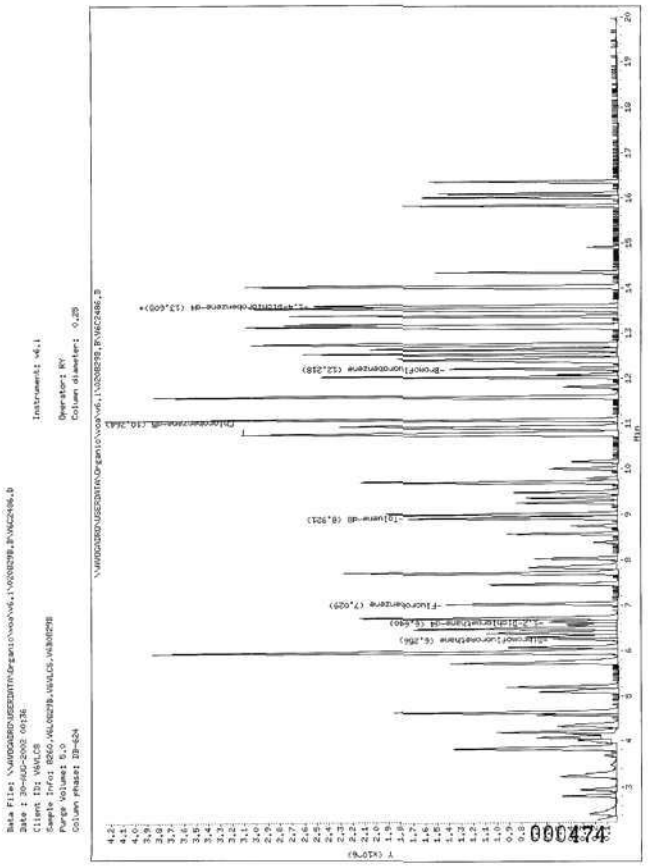
% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	58	
124-48-1	Dibromochloromethane	52	
106-93-4	1,2-Dibromoethane	54	
108-90-7	Chlorobenzene	52	
630-20-6	1,1,1,2-Tetrachloroethane	52	
100-41-4	Ethylbenzene	51	
1330-20-7	Xylene (Total)	160	
100-42-5	Styrene	55	
75-25-2	Bromoform	52	
98-82-8	Isopropylbenzene	54	
79-34-5	1,1,2,2-Tetrachloroethane	54	
108-86-1	Bromobenzene	52	
96-18-4	1,2,3-Trichloropropane	54	
103-65-1	n-Propylbenzene	51	
95-49-8	2-Chlorotoluene	51	
108-67-8	1,3,5-Trimethylbenzene	52	
106-43-4	4-Chlorotoluene	50	
98-06-6	tert-Butylbenzene	52	
95-63-6	1,2,4-Trimethylbenzene	54	
135-98-8	sec-Butylbenzene	52	
99-87-6	4-Isopropyltoluene	52	
541-73-1	1,3-Dichlorobenzene	51	
106-46-7	1,4-Dichlorobenzene	51	
104-51-8	n-Butylbenzene	51	
95-50-1	1,2-Dichlorobenzene	53	
96-12-8	1,2-Dibromo-3-chloropropane	54	
120-82-1	1,2,4-Trichlorobenzene	49	
87-68-3	Hexachlorobutadiene	44	
91-20-3	Naphthalene	56	
87-61-6	1,2,3-Trichlorobenzene	50	
544-10-5	1-Chlorohexane	48	

FORM I VOA OLM03.0



Data File: V6C2486.D
Report Date: 11-Sep-2002 16:04

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2486.D
Lab Smp Id: V6L0829B Client Smp ID: V6VLCS
Inj Date : 30-AUG-2002 00:36
Operator : RY Inst ID: v6.i
Smp Info : 8260,V6L0829B,V6VLCS,V6B0829B
Misc Info : ,3,,LCS
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\v68260.m
Meth Date : 10-Sep-2002 17:36 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 31 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	2.041	2.035	(0.290)	469555	40.6745	41
2 Chloromethane	50	2.266	2.272	(0.322)	709954	48.0065	48
3 Vinyl Chloride	62	2.424	2.418	(0.345)	688477	48.0927	48
4 Bromomethane	94	2.813	2.814	(0.400)	450726	44.6278	45
5 Chloroethane	64	2.953	2.947	(0.420)	406156	49.1648	49
6 Trichlorofluoromethane	101	3.339	3.340	(0.461)	835659	48.7846	49
8 1,1-Dichloroethene	96	3.429	3.430	(0.545)	884257	49.9562	50
9 Acetone	43	3.453	3.448	(0.548)	157438	57.1528	57
14 Methylene Chloride	84	4.334	4.328	(0.617)	491990	52.6362	53
15 Acrylonitrile	53	4.590	4.584	(0.653)	756372	304.104	300
17 Methyl tert-butyl ether	73	4.644	4.645	(0.661)	1179868	56.0751	56
16 trans-1,2-Dichloroethene	96	4.644	4.645	(0.661)	502745	50.7571	51
18 1,1-Dichloroethane	63	5.094	5.095	(0.725)	860815	52.6575	53
22 2-Butanone	43	5.333	5.334	(0.816)	196946	54.9157	55
23 cis-1,2-Dichloroethene	96	5.733	5.734	(0.816)	501294	52.8727	53
24 2,2-Dichloropropane	77	5.733	5.740	(0.817)	382442	42.1120	42

Data File: V6C2486.D
Report Date: 11-Sep-2002 16:04

Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
27 Bromochloromethane	128	5.995	5.995	(0.853)	248891	52.6350	53
28 Tetrahydrofuran	72	6.042	6.042	(0.862)	44651	48.5189	48
29 Chloroform	83	6.080	6.080	(0.865)	843620	53.2082	53
S 30 Dibromofluoromethane	113	6.256	6.257	(0.890)	421030	49.5324	50
31 1,1,1-Trichloroethane	97	6.305	6.306	(0.897)	673230	49.7477	50
32 1,1-Dichloropropene	110	6.488	6.494	(0.923)	240272	49.7571	50
33 Carbon Tetrachloride	117	6.500	6.500	(0.925)	701494	50.5793	50
S 35 1,2-Dichloroethane-d4	102	6.640	6.634	(0.945)	108681	51.5216	52
37 Benzene	78	6.725	6.719	(0.957)	1361336	53.3943	53
36 1,2-Dichloroethane	62	6.725	6.725	(0.957)	629772	54.3394	54
* 38 Fluorobenzene	96	7.029	7.029	(1.000)	1737509	50.0000	
39 Trichloroethene	130	7.461	7.461	(1.061)	504487	49.6901	50
40 1,2-Dichloropropane	63	7.716	7.711	(1.098)	495531	54.5064	54
42 Dibromomethane	93	7.856	7.851	(1.118)	278008	53.5784	54
43 Bromodichloromethane	83	8.027	8.027	(1.142)	628073	53.4681	53
45 cis-1,3-Dichloropropene	75	8.568	8.575	(1.219)	730667	50.8911	53
46 4-Methyl-2-pentanone	43	8.745	8.739	(1.244)	181312	58.7572	59
S 47 Toluene-d8	98	8.921	8.921	(0.828)	1700148	50.5288	50
48 Toluene	91	9.006	9.001	(1.281)	2068649	54.1613	54
49 trans-1,3-Dichloropropene	75	9.255	9.250	(1.317)	665079	53.9515	54
51 1,1,2-Trichloroethane	97	9.493	9.487	(1.351)	359922	54.4961	54
53 Tetrachloroethene	164	9.718	9.712	(0.902)	484494	51.1815	51
54 2-Hexanone	43	9.803	9.797	(0.910)	253774	58.4794	58
55 Dibromochloromethane	129	10.016	10.010	(0.930)	469885	52.3105	52
56 1,2-Dibromoethane	107	10.174	10.175	(0.945)	402927	53.8419	54
115 1-Chlorohexane	91	10.764	10.765	(0.999)	681976	48.2059	48
* 57 Chlorobenzene-d5	117	10.770	10.771	(1.000)	1342077	50.0000	
58 Chlorobenzene	112	10.807	10.807	(1.003)	1358098	52.4946	52
59 1,1,1,2-Tetrachloroethane	131	10.898	10.899	(1.012)	490666	51.5489	52
60 Ethylbenzene	106	10.941	10.935	(1.016)	754444	51.4195	51
61 m,p-Xylene	106	11.087	11.087	(1.029)	1840935	104.667	100
62 o-Xylene	106	11.586	11.580	(1.076)	901486	52.8376	53
64 Styrene	104	11.598	11.593	(1.077)	1486861	55.2235	55
65 Bromoform	173	11.823	11.823	(1.098)	307658	52.3575	52
66 Isopropylbenzene	105	12.036	12.030	(1.117)	2229935	54.2030	54
S 68 Bromofluorobenzene	95	12.218	12.219	(1.134)	612702	51.1263	51
69 1,1,2,2-Tetrachloroethane	83	12.370	12.371	(0.910)	506549	53.6050	54
70 Bromobenzene	156	12.407	12.407	(0.913)	606574	52.2208	52
71 1,2,3-Trichloropropane	75	12.431	12.432	(0.915)	631183	53.9818	54
72 n-Propylbenzene	120	12.528	12.529	(0.922)	682614	51.1784	51
73 2-Chlorotoluene	126	12.639	12.638	(0.930)	570157	50.8959	51
74 1,3,5-Trimethylbenzene	105	12.741	12.736	(0.937)	1898350	52.4212	52
75 4-Chlorotoluene	126	12.766	12.766	(0.939)	582861	49.9726	50
M 63 Xylene (Total)	106				2742421	157.504	160
76 tert-Butylbenzene	119	13.125	13.125	(0.966)	2203800	52.5923	52
77 1,2,4-Trimethylbenzene	105	13.179	13.180	(0.970)	1974159	54.5426	54
78 sec-Butylbenzene	105	13.380	13.381	(0.984)	2918659	52.3468	52

Data File: V6C2486.D
Report Date: 11-Sep-2002 16:04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
80 1,3-Dichlorobenzene	146	13.520	13.514	(0.995)	1160599	51.1311	51
79 4-Isopropyltoluene	119	13.544	13.545	(0.996)	2104262	52.2361	52
* 81 1,4-Dichlorobenzene-d4	152	13.593	13.587	(1.000)	775268	50.0000	
82 1,4-Dichlorobenzene	146	13.617	13.618	(1.002)	1185079	51.0230	51
83 n-Butylbenzene	91	14.019	14.013	(1.031)	1929453	51.2461	51
84 1,2-Dichlorobenzene	146	14.049	14.044	(1.034)	1118859	52.7466	53
86 1,2-Dibromo-3-chloropropane	75	14.907	14.908	(1.097)	84789	53.8146	54
87 1,2,4-Trichlorobenzene	180	15.826	15.826	(1.164)	748511	49.4359	49
88 Hexachlorobutadiene	225	16.008	16.009	(1.178)	430474	44.1399	44
89 Naphthalene	128	16.091	16.094	(1.184)	1581504	55.7578	56
90 1,2,3-Trichlorobenzene	180	16.355	16.355	(1.203)	694141	50.0493	50

Y/N
09/11/02

000477

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V6VLCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: V6L0829C

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2487

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	35	
74-87-3	Chloromethane	43	
75-01-4	Vinyl Chloride	43	
74-83-9	Bromomethane	41	
75-00-3	Chloroethane	44	
75-69-4	Trichlorofluoromethane	44	
75-35-4	1,1-Dichloroethene	44	
67-64-1	Acetone	49	
75-09-2	Methylene Chloride	48	
107-13-1	Acrylonitrile	290	
156-60-5	trans-1,2-Dichloroethene	46	
1634-04-4	Methyl tert-butyl ether	52	
75-34-3	1,1-Dichloroethane	47	
78-93-3	2-Butanone	50	
156-59-2	cis-1,2-Dichloroethene	48	
590-20-7	2,2-Dichloropropane	38	
74-97-5	Bromochloromethane	48	
67-66-3	Chloroform	48	
109-99-9	Tetrahydrofuran	44	
71-55-6	1,1,1-Trichloroethane	45	
563-58-6	1,1-Dichloropropene	44	
56-23-5	Carbon Tetrachloride	45	
107-06-2	1,2-Dichloroethane	51	
71-43-2	Benzene	48	
79-01-6	Trichloroethene	45	
78-87-5	1,2-Dichloropropane	49	
74-95-3	Dibromomethane	50	
75-27-4	Bromodichloromethane	49	
10061-01-5	cis-1,3-Dichloropropene	48	
108-10-1	4-Methyl-2-pentanone	55	
108-88-3	Toluene	50	
10061-02-6	trans-1,3-Dichloropropene	49	
79-00-5	1,1,2-Trichloroethane	51	
127-18-4	Tetrachloroethene	48	

FORM I VOA OLM03.0

~~000478~~ 000478

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V6VLCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: V6L0829C

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2487

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/30/02

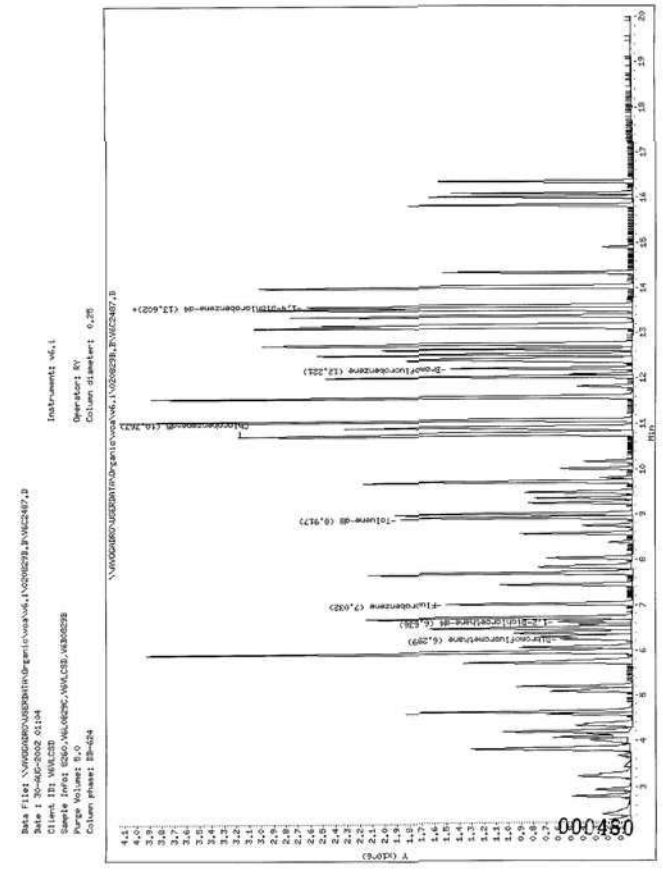
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	55	
124-48-1	Dibromochloromethane	49	
106-93-4	1,2-Dibromoethane	50	
108-90-7	Chlorobenzene	49	
630-20-6	1,1,1,2-Tetrachloroethane	48	
100-41-4	Ethylbenzene	47	
1330-20-7	Xylene (Total)	140	
100-42-5	Styrene	51	
75-25-2	Bromoform	49	
98-82-8	Isopropylbenzene	50	
79-34-5	1,1,2,2-Tetrachloroethane	50	
108-86-1	Bromobenzene	49	
96-18-4	1,2,3-Trichloropropane	50	
103-65-1	n-Propylbenzene	47	
95-49-8	2-Chlorotoluene	46	
108-67-8	1,3,5-Trimethylbenzene	49	
106-43-4	4-Chlorotoluene	47	
98-06-6	tert-Butylbenzene	49	
95-63-6	1,2,4-Trimethylbenzene	50	
135-98-8	sec-Butylbenzene	48	
99-87-6	4-Isopropyltoluene	48	
541-73-1	1,3-Dichlorobenzene	48	
106-46-7	1,4-Dichlorobenzene	48	
104-51-8	n-Butylbenzene	47	
95-50-1	1,2-Dichlorobenzene	49	
96-12-8	1,2-Dibromo-3-chloropropane	49	
120-82-1	1,2,4-Trichlorobenzene	48	
87-68-3	Hexachlorobutadiene	41	
91-20-3	Naphthalene	53	
87-61-6	1,2,3-Trichlorobenzene	47	
544-10-5	1-Chlorohexane	44	

FORM I VOA OLM03.0

000479



000480

Data File: V6C2487.D
Report Date: 11-Sep-2002 16:05

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V6C2487.D
Lab Smp Id: V6L0829C Client Smp ID: V6VLCSD
Inj Date : 30-AUG-2002 01:04
Operator : KY Inst ID: v6.i
Smp Info : 8260,V6L0829C,V6VLCSD,V6B0829B
Misc Info : ,3,,LCSD
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020829B.B\V68260.m
Meth Date : 10-Sep-2002 17:36 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 32 QC Sample: LCSD ✓
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * S/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON COLUMN (ug/L)	FINAL (ug/L)
1	Dichlorodifluoromethane	85	2.039	2.035	(0.290)	636221	34.6782	35
2	Chloromethane	50	2.268	2.272	(0.323)	588489	42.7215	43
3	Vinyl Chloride	62	2.426	2.418	(0.345)	864592	42.8579	43
4	Bromomethane	94	2.810	2.814	(0.400)	656497	41.4717	41
5	Chloroethane	64	2.950	2.947	(0.419)	392621	43.5306	44
6	Trichlorofluoromethane	101	3.242	3.240	(0.461)	756220	40.3118	40
8	1,1-Dichloroethene	96	3.833	3.830	(0.544)	558728	43.8398	44
9	Acetone	43	3.860	3.868	(0.548)	116398	48.7503	49
34	Methylene Chloride	84	4.330	4.328	(0.615)	488529	47.9425	48
15	Acrylonitrile	53	4.586	4.584	(0.652)	778683	257.295	260
17	Methyl tert-butyl ether	73	4.647	4.645	(0.661)	1191866	51.3665	52
18	trans-1,2-Dichloroethene	96	4.641	4.645	(0.659)	699667	46.2924	46
19	1,1-Dichloroethane	63	5.087	5.085	(0.725)	849374	47.3348	47
22	2-Butanone	43	5.730	5.734	(0.815)	196142	49.9321	50
23	cis-1,2-Dichloroethene	96	5.736	5.734	(0.816)	498763	48.2729	48
24	2,2-Dichloropropane	77	5.742	5.740	(0.817)	390624	38.4606	38

000481

Data File: V6C2487.D
Report Date: 11-Sep-2002 16:05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON COLUMN (ug/L)	FINAL (ug/L)
27	Bromochloromethane	128	5.997	5.995	(0.853)	347781	48.0856	48
28	Tetrahydrofuran	72	6.044	6.042	(0.862)	44075	43.9693	44
29	Chloroform	83	6.077	6.080	(0.866)	816540	48.1008	48
R 30	Dibromofluoromethane	113	6.259	6.253	(0.890)	462236	46.8067	46
31	1,1,1-Trichloroethane	97	6.356	6.356	(0.870)	671144	46.1912	46
32	1,1-Dichloropropene	75	6.499	6.494	(0.923)	1126631	44.3565	44
33	Carbon Tetrachloride	117	6.502	6.500	(0.925)	629435	46.9467	47
C 35	1,2-Dichloroethane-d4	102	6.442	6.434	(0.948)	1218845	53.0144	53
37	Benzene	78	6.721	6.715	(0.956)	1944479	48.5745	48
36	1,2-Dichloroethane	62	6.721	6.725	(0.956)	840412	50.3074	50
* 38	Fluorobenzene	96	7.032	7.029	(1.000)	1893432	50.0000	
39	Trichloroethene	130	7.457	7.461	(1.061)	602402	48.4486	48
40	1,2-Dichloropropane	63	7.713	7.711	(1.097)	484997	49.4558	49
42	Dibromomethane	93	7.853	7.851	(1.117)	282558	49.9727	50
43	Bromodichloromethane	83	8.029	8.027	(1.142)	524718	48.8032	49
45	cis-1,3-Dichloropropene	75	8.571	8.575	(1.219)	728291	48.3748	48
46	4-Methyl-2-pentanone	43	8.761	8.759	(1.245)	389187	55.0807	55
S 47	Toluene-d8	98	8.918	8.921	(0.836)	1858771	51.3159	51
48	Toluene	92	8.965	8.969	(1.280)	2064344	49.6618	50
49	trans-1,3-Dichloropropene	75	9.282	9.280	(1.320)	660818	48.2817	48
51	1,1,2-Trichloroethane	97	9.488	9.487	(1.350)	496024	50.7717	51
53	Tetrachloroethene	164	9.716	9.732	(0.902)	488366	47.7069	48
54	2-Hexanone	43	9.900	9.897	(0.918)	355468	54.7167	55
55	Dibromochloromethane	129	10.081	10.086	(0.930)	472600	48.8725	49
56	1,2-Dibromoethane	107	10.271	10.270	(0.948)	492662	49.8834	50
115	Chlorobenzene	91	10.768	10.768	(0.999)	976161	44.2674	44
* 57	Chlorobenzene-d5	117	10.767	10.771	(1.000)	2444768	50.0000	
58	Chlorobenzene	112	10.803	10.807	(1.003)	1334805	48.6488	49
59	1,1,1,2-Tetrachloroethane	131	10.901	10.898	(1.012)	492995	48.5992	48
60	Ethylbenzene	106	10.927	10.925	(1.014)	745564	47.2068	47
62	m,p-Xylene	106	11.069	11.067	(1.028)	1620146	96.3146	96
63	o-Xylene	106	11.582	11.580	(1.074)	805585	45.3252	45
64	Styrene	104	11.594	11.592	(1.077)	1587618	91.7236	92
65	Bromoform	173	11.825	11.823	(1.098)	351563	49.2190	49
66	Isopropylbenzene	105	12.032	12.030	(1.118)	2314353	49.9976	50
S 68	Bromofluorobenzene	95	12.218	12.219	(1.134)	667147	51.7216	52
69	1,1,2,2-Tetrachloroethane	83	12.393	12.391	(0.918)	584239	49.7481	50
70	Bromobenzene	156	12.408	12.407	(0.919)	807958	48.7484	49
71	1,2,3-Trichloropropane	75	12.424	12.422	(0.919)	633760	50.8028	50
72	n-Propylbenzene	120	12.531	12.529	(0.928)	5637e2	46.7885	47
73	2-Chlorotoluene	126	12.641	12.638	(0.936)	559878	46.5660	47
74	1,3,5-Trimethylbenzene	105	12.738	12.736	(0.737)	1815631	48.2935	48
75	4-Chlorotoluene	126	12.768	12.766	(0.940)	582865	47.3603	47
M 63	Xylene (Total)	106				2338133	145.560	146
76	tert-Butylbenzene	119	13.137	13.135	(0.959)	2203835	48.8070	49
77	1,2,4-Trimethylbenzene	105	13.182	13.180	(0.970)	1963519	48.9262	49
78	sec-Butylbenzene	105	13.283	13.281	(0.965)	2506277	48.5350	49

000482

Data File: V6C2487.D
Report Date: 11-Sep-2002 16:05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON COLUMN (ug/L)	FINAL (ug/L)
80	1,3-Dichlorobenzene	146	13.527	13.524	(0.985)	1145462	47.8418	48
79	4-Isopropyltoluene	119	13.547	13.545	(0.599)	2094662	48.4491	48
* 81	1,4-Dichlorobenzene-d4	152	13.592	13.587	(1.000)	812066	50.0000	
82	1,4-Dichlorobenzene	146	13.624	13.619	(1.002)	1140735	47.8239	48
83	n-Butylbenzene	91	14.015	14.021	(1.031)	1918825	47.4317	47
84	1,2-Dichlorobenzene	146	14.046	14.044	(1.034)	1117275	49.0804	49
86	1,2-Dibrom-3-chloropropane	75	14.919	14.908	(1.097)	80720	48.4278	48
87	1,2,4-Trichlorobenzene	180	15.626	15.624	(1.149)	773866	47.5601	48
88	Hexachlorobutadiene	225	15.811	15.809	(1.178)	432717	48.3422	48
89	Naphthalene	128	16.094	16.094	(1.184)	1419832	50.2616	50
90	1,2,3-Trichlorobenzene	180	16.351	16.358	(1.203)	704649	47.1197	47

9/11/02

000483

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V6XLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: V6L0830A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2513
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	36	
74-87-3	Chloromethane	43	
75-01-4	Vinyl Chloride	41	
74-83-9	Bromomethane	44	
75-00-3	Chloroethane	46	
75-69-4	Trichlorofluoromethane	47	
75-35-4	1,1-Dichloroethene	44	
67-64-1	Acetone	62	
75-09-2	Methylene Chloride	45	
107-13-1	Acrylonitrile	260	
156-60-5	trans-1,2-Dichloroethene	44	
1634-04-4	Methyl tert-butyl ether	48	
75-34-3	1,1-Dichloroethane	45	
78-93-3	2-Butanone	56	
156-59-2	cis-1,2-Dichloroethene	44	
590-20-7	2,2-Dichloropropane	44	
74-97-5	Bromochloromethane	45	
67-66-3	Chloroform	46	
109-99-9	Tetrahydrofuran	45	
71-55-6	1,1,1-Trichloroethane	43	
563-58-6	1,1-Dichloropropene	42	
56-23-5	Carbon Tetrachloride	44	
107-06-2	1,2-Dichloroethane	49	
71-43-2	Benzene	46	
79-01-6	Trichloroethene	42	
78-87-5	1,2-Dichloropropane	46	
74-95-3	Dibromomethane	47	
75-27-4	Bromodichloromethane	46	
10061-01-5	cis-1,3-Dichloropropene	46	
108-10-1	4-Methyl-2-pentanone	56	
108-88-3	Toluene	45	
10061-02-6	trans-1,3-Dichloropropene	47	
79-00-5	1,1,2-Trichloroethane	46	
127-18-4	Tetrachloroethene	42	

FORM I VOA OLM03.0

000484

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V6XLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: V6L0830A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2513

Level: (low/med) LOW Date Received: _____

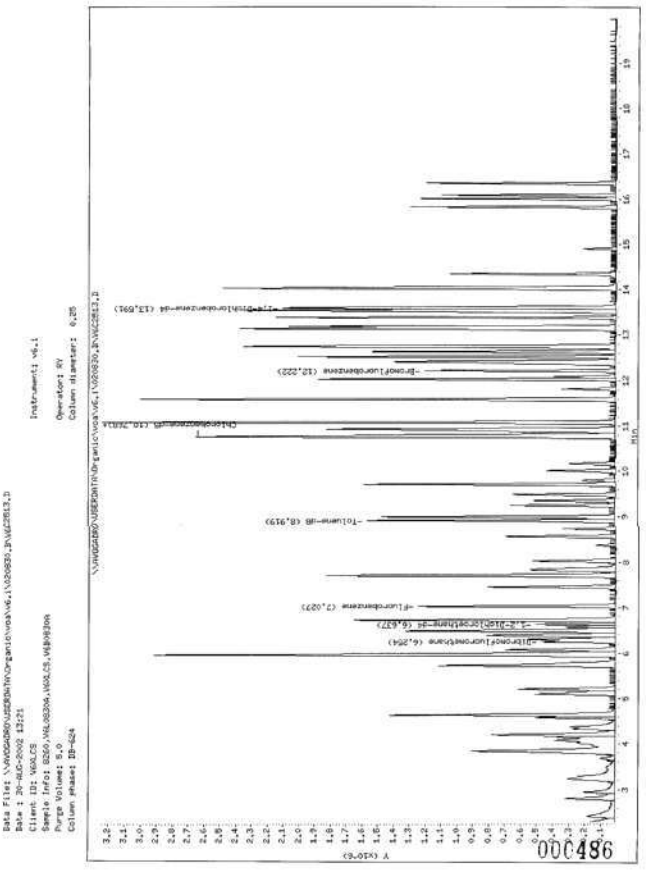
% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	59	
124-48-1	Dibromochloromethane	45	
106-93-4	1,2-Dibromoethane	46	
108-90-7	Chlorobenzene	45	
630-20-6	1,1,1,2-Tetrachloroethane	44	
100-41-4	Ethylbenzene	44	
1330-20-7	Xylene (Total)	140	
100-42-5	Styrene	48	
75-25-2	Bromoform	46	
98-82-8	Isopropylbenzene	48	
79-34-5	1,1,2,2-Tetrachloroethane	49	
108-86-1	Bromobenzene	44	
96-18-4	1,2,3-Trichloropropane	51	
103-65-1	n-Propylbenzene	45	
95-49-8	2-Chlorotoluene	44	
108-67-8	1,3,5-Trimethylbenzene	47	
106-43-4	4-Chlorotoluene	44	
98-06-6	tert-Butylbenzene	46	
95-63-6	1,2,4-Trimethylbenzene	47	
135-98-8	sec-Butylbenzene	48	
99-87-6	4-Isopropyltoluene	47	
541-73-1	1,3-Dichlorobenzene	45	
106-46-7	1,4-Dichlorobenzene	45	
104-51-8	n-Butylbenzene	48	
95-50-1	1,2-Dichlorobenzene	45	
96-12-8	1,2-Dibromo-3-chloropropane	52	
120-82-1	1,2,4-Trichlorobenzene	41	
87-68-3	Hexachlorobutadiene	39	
91-20-3	Naphthalene	48	
87-61-6	1,2,3-Trichlorobenzene	42	
544-10-5	1-Chlorohexane	44	

FORM I VOA OLM03.0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2513.D
Report Date: 10-Sep-2002 17:55

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2513.D
Lab Smp Id: V6L0830A Client Smp ID: V6XLCS
Inj Date : 30-AUG-2002 13:21
Operator : RY Inst ID: v6.i
Smp Info : 8260,V6L0830A,V6XLCS,V6B0830A
Misc Info : ,3,,LCS
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\v68260.m
Meth Date : 10-Sep-2002 17:16 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	2.038	2.035	(0.290)	361362	36.0660	36
2 Chloromethane	50	2.276	2.266	(0.324)	349694	42.8265	43
3 Vinyl Chloride	62	2.422	2.412	(0.345)	513762	41.3499	41
4 Bromomethane	94	2.817	2.820	(0.401)	381906	43.5623	44
5 Chloroethane	64	2.951	2.953	(0.420)	326652	45.5085	46
6 Trichlorofluoromethane	101	3.243	3.240	(0.461)	695490	46.7807	47
8 1,1-Dichloroethene	96	3.839	3.836	(0.546)	452401	44.5883	44
9 Acetone	43	3.851	3.848	(0.548)	147965	61.8648	62
14 Methylene Chloride	84	4.374	4.377	(0.623)	364859	44.9755	45
15 Acrylonitrile	53	4.581	4.584	(0.652)	552381	255.887	260
17 Methyl tert-butyl ether	73	4.648	4.651	(0.661)	872895	47.7993	48
16 trans-1,2-Dichloroethene	96	4.642	4.645	(0.661)	380754	44.2957	44
18 1,1-Dichloroethane	63	5.096	5.095	(0.726)	638405	44.9955	45
22 2-Butanone	43	5.737	5.734	(0.816)	174485	56.0570	56
23 cis-1,2-Dichloroethene	96	5.737	5.734	(0.816)	364910	44.3453	44
24 2,2-Dichloropropane	77	5.737	5.740	(0.816)	346804	43.9994	44

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2513.D
Report Date: 10-Sep-2002 17:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
37 Bromochloromethane	128	5.992	5.995	(0.953)	163898	44.8090	45
29 Tetrahydrofuran	72	6.059	6.062	(0.862)	38205	45.3285	45
20 Chloroform	83	6.078	6.080	(0.865)	638774	46.4196	46
$ 30 Dibromofluoromethane	113	6.254	6.257	(0.890)	362574	49.1470	49
31 1,1,1-Trichloroethane	97	6.309	6.305	(0.898)	506860	43.0434	43
32 1,1-Dichloropropene	110	6.485	6.494	(0.923)	176946	42.3197	42
33 Carbon Tetrachloride	117	6.503	6.500	(0.926)	532475	44.2354	44
$ 35 1,2-Dichloroethane-d4	102	6.643	6.640	(0.945)	95031	51.9067	52
37 Benzene	78	6.723	6.725	(0.957)	1474130	46.2382	46
36 1,2-Dichloroethane	62	6.723	6.725	(0.957)	488980	48.6122	49
* 38 Fluorobenzene	96	7.027	7.029	(1.000)	1508011	50.0000	
39 Trichloroethene	130	7.459	7.455	(1.061)	372285	42.2492	42
40 1,2-Dichloropropane	63	7.714	7.717	(1.098)	365375	46.2934	46
42 Dibromomethane	93	7.848	7.851	(1.117)	213065	47.9158	47
43 Bromodichloromethane	83	8.030	8.027	(1.143)	468969	45.9993	46
45 cis-1,3-Dichloropropene	75	8.572	8.568	(1.220)	547981	45.7037	46
46 4-Methyl-2-pentanone	43	8.742	8.745	(1.244)	317024	56.2854	56
$ 47 Toluene-d8	98	8.919	8.921	(0.808)	1498347	52.1616	52
48 Toluene	91	9.004	9.006	(1.281)	1544107	46.5803	46
49 trans-1,3-Dichloropropene	75	9.253	9.256	(1.317)	502012	46.9210	47
51 1,1,2-Trichloroethane	97	9.490	9.487	(1.351)	294420	46.2253	46
53 Tetrachloroethene	164	9.716	9.712	(0.902)	318525	41.8719	42
54 2-Hexanone	43	9.801	9.801	(0.910)	218192	58.8954	59
55 Dibromochloromethane	129	10.016	10.016	(0.930)	342622	44.6786	45
56 1,2-Dibromoethane	107	10.172	10.175	(0.945)	296528	46.4138	46
115 1-Chlorohexane	91	10.762	10.765	(0.999)	531161	43.8503	44
* 57 Chlorobenzene-d5	117	10.768	10.771	(1.000)	1145752	50.0000	
58 Chlorobenzene	112	10.804	10.807	(1.003)	995964	45.0935	45
59 1,1,1,2-Tetrachloroethane	131	10.902	10.899	(1.012)	362194	44.5720	44
60 Ethylbenzene	106	10.938	10.941	(1.016)	558223	44.5640	44
61 m,p-Xylene	106	11.084	11.087	(1.029)	1381829	92.0260	92
62 o-Xylene	106	11.583	11.586	(1.076)	458842	45.2327	45
64 Styrene	104	11.595	11.592	(1.077)	1091831	47.5052	48
65 Bromoform	173	11.820	11.823	(1.098)	231459	46.1393	46
66 Isopropylbenzene	105	12.033	12.030	(1.118)	1685233	47.9820	48
$ 68 Bromofluorobenzene	95	12.222	12.218	(1.135)	522700	51.0898	51
69 1,1,2,2-Tetrachloroethane	83	12.374	12.371	(0.910)	397471	49.4649	49
70 Bromobenzene	156	12.411	12.407	(0.913)	438252	44.3264	44
71 1,2,3-Trichloropropane	75	12.435	12.432	(0.915)	506059	50.6477	51
72 n-Propylbenzene	120	12.532	12.529	(0.922)	513038	45.1018	45
73 2-Chlorotoluene	126	12.642	12.638	(0.930)	424151	44.4823	44
74 1,3,5-Trimethylbenzene	105	12.739	12.736	(0.937)	1464027	47.4870	47
75 4-Chlorotoluene	126	12.763	12.766	(0.939)	438000	44.1184	44
M 63 Xylene (Total)	106				2040671	137.259	140
76 tert-Butylbenzene	119	13.128	13.125	(0.966)	1642666	46.0542	46
77 1,2,4-Trimethylbenzene	105	13.163	13.160	(0.970)	1477588	47.4249	47
78 sec-Butylbenzene	105	13.384	13.381	(0.985)	1949990	47.6136	48

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830.B\V6C2513.D
Report Date: 10-Sep-2002 17:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
80 1,3-Dichlorobenzene	146	13.518	13.514	(0.999)	863153	44.9859	45
79 4-Isopropyltoluene	119	13.548	13.545	(0.997)	1622422	47.3165	47
* 81 1,4-Dichlorobenzene-d4	152	13.591	13.587	(1.000)	659310	50.0000	
82 1,4-Dichlorobenzene	146	13.615	13.618	(1.002)	887338	44.6834	45
83 n-Butylbenzene	91	14.017	14.013	(1.031)	1536249	47.9304	48
84 1,2-Dichlorobenzene	146	14.047	14.044	(1.034)	818298	45.3204	45
86 1,2-Dibromo-3-chloropropane	75	14.905	14.908	(1.097)	70327	52.4369	52
87 1,2,4-Trichlorobenzene	180	15.829	15.826	(1.165)	532312	41.3037	41
88 Hexachlorobutadiene	225	16.012	16.009	(1.178)	322884	38.8964	39
89 Naphthalene	128	16.097	16.094	(1.184)	1168310	48.3918	48
90 1,2,3-Trichlorobenzene	180	16.353	16.355	(1.203)	491126	41.6027	42

Y/L
09/11/02

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V6ZLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: V6L0830C

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2545

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	28	
74-87-3	Chloromethane	39	
75-01-4	Vinyl Chloride	39	
74-83-9	Bromomethane	37	
75-00-3	Chloroethane	42	
75-69-4	Trichlorofluoromethane	41	
75-35-4	1,1-Dichloroethene	43	
67-64-1	Acetone	48	
75-09-2	Methylene Chloride	44	
107-13-1	Acrylonitrile	290	
156-60-5	trans-1,2-Dichloroethene	43	
1634-04-4	Methyl tert-butyl ether	45	
75-34-3	1,1-Dichloroethane	44	
78-93-3	2-Butanone	50	
156-59-2	cis-1,2-Dichloroethene	43	
590-20-7	2,2-Dichloropropane	35	
74-97-5	Bromochloromethane	44	
67-66-3	Chloroform	46	
109-99-9	Tetrahydrofuran	44	
71-55-6	1,1,1-Trichloroethane	44	
563-58-6	1,1-Dichloropropene	42	
56-23-5	Carbon Tetrachloride	45	
107-06-2	1,2-Dichloroethane	49	
71-43-2	Benzene	46	
79-01-6	Trichloroethene	41	
78-87-5	1,2-Dichloropropane	46	
74-95-3	Dibromomethane	47	
75-27-4	Bromodichloromethane	46	
10061-01-5	cis-1,3-Dichloropropene	42	
108-10-1	4-Methyl-2-pentanone	51	
108-88-3	Toluene	46	
10061-02-6	trans-1,3-Dichloropropene	44	
79-00-5	1,1,2-Trichloroethane	47	
127-18-4	Tetrachloroethene	51	

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V6ZLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: V6L0830C

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2545

Level: (low/med) LOW Date Received: _____

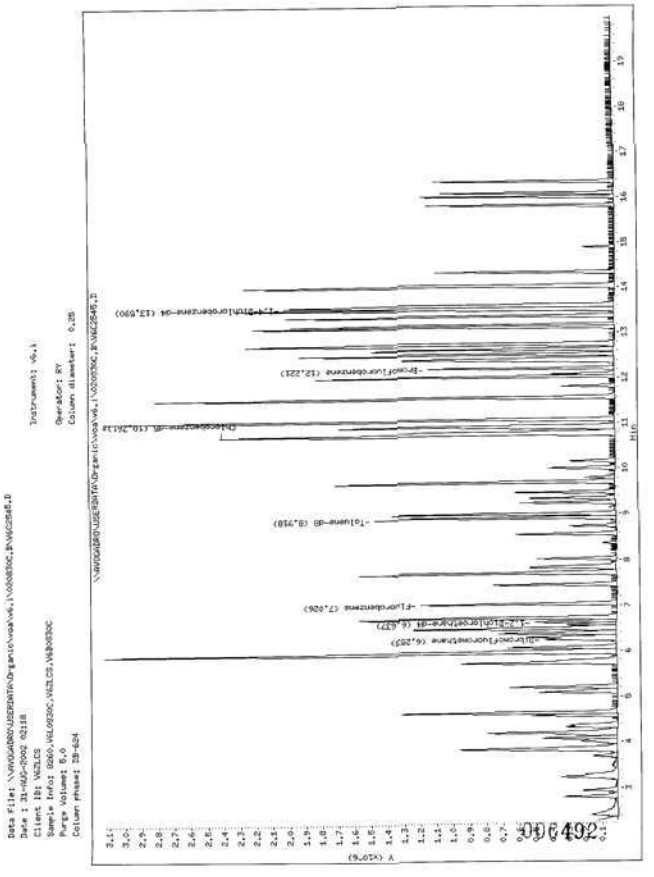
% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	52	
124-48-1	Dibromochloromethane	44	
106-93-4	1,2-Dibromoethane	45	
108-90-7	Chlorobenzene	44	
630-20-6	1,1,1,2-Tetrachloroethane	44	
100-41-4	Ethylbenzene	43	
1330-20-7	Xylene (Total)	130	
100-42-5	Styrene	45	
75-25-2	Bromoform	46	
98-82-8	Isopropylbenzene	46	
79-34-5	1,1,2,2-Tetrachloroethane	48	
108-86-1	Bromobenzene	41	
96-18-4	1,2,3-Trichloropropane	49	
103-65-1	n-Propylbenzene	43	
95-49-8	2-Chlorotoluene	42	
108-67-8	1,3,5-Trimethylbenzene	45	
106-43-4	4-Chlorotoluene	42	
98-06-6	tert-Butylbenzene	42	
95-63-6	1,2,4-Trimethylbenzene	45	
135-98-8	sec-Butylbenzene	45	
99-87-6	4-Isopropyltoluene	45	
541-73-1	1,3-Dichlorobenzene	42	
106-46-7	1,4-Dichlorobenzene	42	
104-51-8	n-Butylbenzene	44	
95-50-1	1,2-Dichlorobenzene	43	
96-12-8	1,2-Dibromo-3-chloropropane	49	
120-82-1	1,2,4-Trichlorobenzene	37	
87-68-3	Hexachlorobutadiene	36	
91-20-3	Naphthalene	45	
87-61-6	1,2,3-Trichlorobenzene	40	
544-10-5	1-Chlorohexane	38	

FORM I VOA OLM03.0



Data File: V6C2545.D
Report Date: 10-Sep-2002 13:16

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2545.D
Lab Smp Id: V6L0830C Client Smp ID: V6ZLCS
Inj Date : 31-AUG-2002 02:18
Operator : RY Inst ID: v6.i
Smp Info : 8260,V6L0830C,V6ZLCS,V6B0830C
Misc Info : ,3,,LCS
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 01-Sep-2002 17:15 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 22 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	**********	****	**	******	******	********	*******	********
1	Dichlorodifluoromethane	85	2.038	2.042	(0.290)	269364	28.5522	28
2	Chloromethane	50	2.269	2.267	(0.323)	471521	39.0156	39
3	Vinyl Chloride	62	2.415	2.419	(0.344)	451966	38.6317	39
4	Bromomethane	94	2.816	2.814	(0.401)	306506	37.1314	37
5	Chloroethane	64	2.950	2.948	(0.420)	284500	42.1416	42
6	Trichlorofluoromethane	101	3.242	3.240	(0.461)	573454	40.9656	41
8	1,1-Dichloroethene	96	3.832	3.830	(0.545)	413895	43.3056	43
9	Acetone	43	3.850	3.849	(0.548)	108132	48.0425	48
14	Methylene Chloride	84	4.331	4.329	(0.616)	338532	44.3196	44
15	Acrylonitrile	53	4.587	4.585	(0.653)	599082	294.742	290
17	Methyl tert-butyl ether	73	4.647	4.645	(0.661)	780789	45.4086	45
18	trans-1,2-Dichloroethene	96	4.641	4.645	(0.661)	351663	43.4454	43
19	1,1-Dichloroethane	63	5.098	5.096	(0.726)	594056	44.4672	44
22	2-Butanone	43	5.730	5.734	(0.816)	149721	50.4033	50
23	cis-1,2-Dichloroethene	96	5.730	5.734	(0.816)	330466	42.6514	43
24	2,2-Dichloropropane	77	5.742	5.734	(0.817)	261475	35.2321	35

Data File: V6C2545.D
Report Date: 10-Sep-2002 13:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	**********	****	**	******	******	********	*******	********
	27 Bromochloromethane	128	5.998	5.996	(0.854)	169450	43.8505	44
	29 Tetrahydrofuran	72	6.065	6.069	(0.863)	33107	44.0218	44
	28 Chloroform	83	6.077	6.075	(0.865)	597194	46.0910	46
S	30 Dibromofluoromethane	113	6.253	6.252	(0.890)	353186	50.8451	51
	31 1,1,1-Trichloroethane	97	6.308	6.306	(0.898)	490085	44.2013	44
	32 1,1-Dichloropropene	110	6.491	6.483	(0.924)	166202	42.1169	42
	33 Carbon Tetrachloride	117	6.497	6.501	(0.925)	510047	45.0015	45
S	35 1,2-Dichloroethane-d4	102	6.637	6.641	(0.945)	90282	52.3727	52
	37 Benzene	78	6.722	6.720	(0.957)	1385031	46.1392	46
	36 1,2-Dichloroethane	62	6.722	6.726	(0.957)	465772	49.1782	49
*	38 Fluorobenzene	96	7.026	7.030	(1.000)	1419905	50.0000	
	39 Trichloroethene	130	7.458	7.456	(1.061)	338431	40.7904	41
	40 1,2-Dichloropropane	63	7.713	7.712	(1.098)	339746	45.7297	46
	42 Dibromomethane	93	7.847	7.851	(1.117)	199788	47.1159	47
	43 Bromodichloromethane	83	8.030	8.028	(1.143)	438868	45.6971	46
	45 cis-1,3-Dichloropropene	75	8.571	8.569	(1.220)	466810	41.5267	42
	46 4-Methyl-2-pentanone	43	8.742	8.746	(1.244)	273042	51.4847	51
S	47 Toluene-d8	98	8.918	8.916	(0.828)	1411754	51.4420	51
	48 Toluene	91	9.003	9.001	(1.281)	1436159	46.0122	46
	49 trans-1,3-Dichloropropene	75	9.253	9.251	(1.317)	440591	43.7355	44
	51 1,1,2-Trichloroethane	97	9.490	9.488	(1.351)	281462	46.9329	47
	53 Tetrachloroethene	164	9.715	9.713	(0.902)	396837	51.3764	51
	54 2-Hexanone	43	9.800	9.798	(0.910)	183261	51.7765	52
	55 Dibromochloromethane	129	10.013	10.011	(0.930)	310967	43.5362	44
	56 1,2-Dibromoethane	107	10.171	10.175	(0.945)	276574	45.3119	45
	115 1-Chlorohexane	91	10.761	10.759	(0.999)	437799	37.8304	38
*	57 Chlorobenzene-d5	117	10.767	10.765	(1.000)	1094638	50.0000	
	58 Chlorobenzene	112	10.804	10.802	(1.003)	922874	43.7354	44
	59 1,1,1,2-Tetrachloroethane	131	10.901	10.899	(1.012)	342453	44.1105	44
	60 Ethylbenzene	106	10.938	10.936	(1.016)	511540	42.7441	43
	61 m,p-Xylene	106	11.084	11.088	(1.029)	1286091	89.6496	90
	62 o-Xylene	106	11.583	11.581	(1.076)	653940	43.4009	43
	64 Styrene	104	11.595	11.593	(1.077)	997985	45.4448	45
	65 Bromoform	173	11.820	11.818	(1.098)	218650	45.6296	46
	66 Isopropylbenzene	105	12.033	12.031	(1.118)	1553560	46.2984	46
S	68 Bromofluorobenzene	95	12.215	12.219	(1.134)	498287	50.9778	51
	69 1,1,2,2-Tetrachloroethane	83	12.373	12.371	(0.910)	378949	47.6949	48
	70 Bromobenzene	156	12.410	12.408	(0.913)	403364	41.2584	41
	71 1,2,3-Trichloropropane	75	12.428	12.432	(0.915)	480541	48.8290	49
	72 n-Propylbenzene	120	12.526	12.530	(0.922)	478782	42.6487	43
	73 2-Chlorotoluene	126	12.635	12.633	(0.930)	396205	42.0208	42
	74 1,3,5-Trimethylbenzene	105	12.738	12.736	(0.937)	1367547	44.8585	45
	75 4-Chlorotoluene	126	12.763	12.761	(0.939)	414798	42.2532	42
M	63 Xylene (Total)	106				1890051	133.051	130
	76 tert-Butylbenzene	119	13.128	13.126	(0.966)	1502044	42.5873	42
	77 1,2,4-Trimethylbenzene	105	13.176	13.181	(0.970)	1393272	45.2237	45
	78 sec-Butylbenzene	105	13.383	13.381	(0.985)	1827080	45.1163	45

Data File: V6C2545.D
Report Date: 10-Sep-2002 13:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	**********	****	**	******	******	********	*******	********
	80 1,3-Dichlorobenzene	146	13.517	13.515	(0.995)	803629	42.0643	42
	79 4-Isopropyltoluene	119	13.548	13.548	(0.997)	1536867	45.3276	45
*	81 1,4-Dichlorobenzene-d4	152	13.590	13.588	(1.000)	652541	50.0000	
	82 1,4-Dichlorobenzene	146	13.614	13.612	(1.002)	829072	42.4098	42
	83 n-Butylbenzene	91	14.016	14.014	(1.031)	1407225	44.4064	44
	84 1,2-Dichlorobenzene	146	14.046	14.044	(1.034)	771728	43.2238	43
	86 1,2-Dibromo-3-chloropropane	75	14.910	14.908	(1.097)	65555	49.4336	49
	87 1,2,4-Trichlorobenzene	180	15.829	15.827	(1.165)	473390	37.1466	37
	88 Hexachlorobutadiene	225	16.011	16.009	(1.178)	299288	36.4612	36
	89 Naphthalene	128	16.090	16.095	(1.184)	1084569	45.4305	45
	90 1,2,3-Trichlorobenzene	180	16.352	16.350	(1.203)	461279	39.5156	40

YH
09/10/02

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V6ZLCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: V6L0830C
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2546
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	35	
74-87-3	Chloromethane	40	
75-01-4	Vinyl Chloride	41	
74-83-9	Bromomethane	40	
75-00-3	Chloroethane	43	
75-69-4	Trichlorofluoromethane	44	
75-35-4	1,1-Dichloroethene	46	
67-64-1	Acetone	79	
75-09-2	Methylene Chloride	45	
107-13-1	Acrylonitrile	290	
156-60-5	trans-1,2-Dichloroethene	44	
1634-04-4	Methyl tert-butyl ether	48	
75-34-3	1,1-Dichloroethane	45	
78-93-3	2-Butanone	64	
156-59-2	cis-1,2-Dichloroethene	43	
590-20-7	2,2-Dichloropropane	35	
74-97-5	Bromochloromethane	44	
67-66-3	Chloroform	46	
109-99-9	Tetrahydrofuran	45	
71-55-6	1,1,1-Trichloroethane	44	
563-58-6	1,1-Dichloropropene	42	
56-23-5	Carbon Tetrachloride	45	
107-06-2	1,2-Dichloroethane	50	
71-43-2	Benzene	46	
79-01-6	Trichloroethene	41	
78-87-5	1,2-Dichloropropane	46	
74-95-3	Dibromomethane	47	
75-27-4	Bromodichloromethane	46	
10061-01-5	cis-1,3-Dichloropropene	42	
108-10-1	4-Methyl-2-pentanone	56	
108-88-3	Toluene	46	
10061-02-6	trans-1,3-Dichloropropene	45	
79-00-5	1,1,2-Trichloroethane	47	
127-18-4	Tetrachloroethene	52	

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V6ZLCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: V6L0830C

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2546

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/31/02

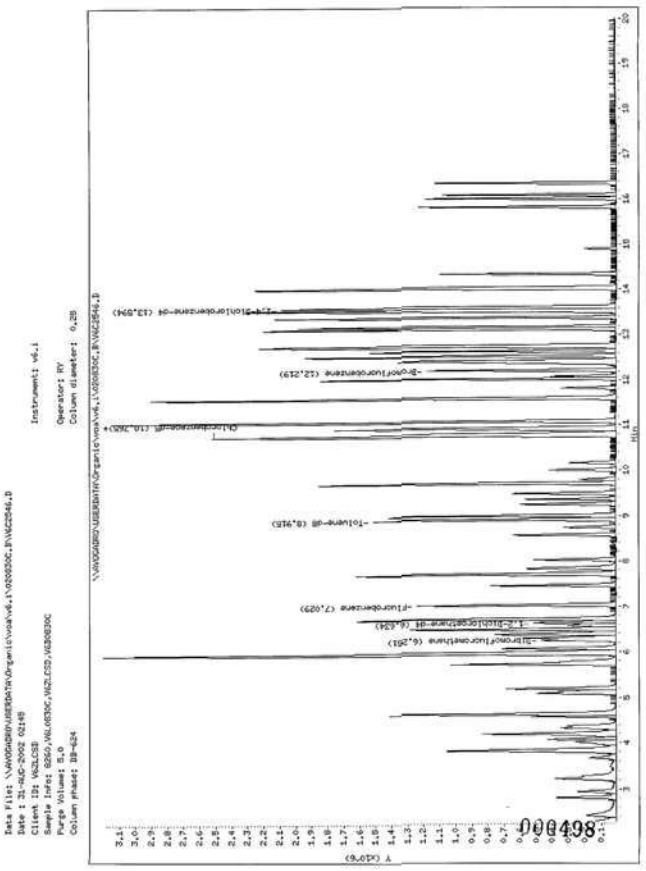
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	62	
124-48-1	Dibromochloromethane	45	
106-93-4	1,2-Dibromoethane	46	
108-90-7	Chlorobenzene	44	
630-20-6	1,1,1,2-Tetrachloroethane	44	
100-41-4	Ethylbenzene	43	
1330-20-7	Xylene (Total)	130	
100-42-5	Styrene	46	
75-25-2	Bromoform	46	
98-82-8	Isopropylbenzene	46	
79-34-5	1,1,2,2-Tetrachloroethane	49	
108-86-1	Bromobenzene	43	
96-18-4	1,2,3-Trichloropropane	50	
103-65-1	n-Propylbenzene	43	
95-49-8	2-Chlorotoluene	42	
108-67-8	1,3,5-Trimethylbenzene	45	
106-43-4	4-Chlorotoluene	43	
98-06-6	tert-Butylbenzene	43	
95-63-6	1,2,4-Trimethylbenzene	46	
135-98-8	sec-Butylbenzene	46	
99-87-6	4-Isopropyltoluene	45	
541-73-1	1,3-Dichlorobenzene	43	
106-46-7	1,4-Dichlorobenzene	43	
104-51-8	n-Butylbenzene	44	
95-50-1	1,2-Dichlorobenzene	45	
96-12-8	1,2-Dibromo-3-chloropropane	53	
120-82-1	1,2,4-Trichlorobenzene	39	
87-68-3	Hexachlorobutadiene	36	
91-20-3	Naphthalene	47	
87-61-6	1,2,3-Trichlorobenzene	40	
544-10-5	1-Chlorohexane	39	

1

FORM I VOA OLM03.0



Data File: V6C2546.D
Report Date: 10-Sep-2002 13:16

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\V6C2546.D
Lab Smp Id: V6L0830C Client Smp ID: V6ZLCSD
Inj Date : 31-AUG-2002 02:45
Operator : RY Inst ID: v6.i
Smp Info : 8260,V6L0830C,V6ZLCSD,V6B0830C
Misc Info : ,3,,LCSD
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\020830C.B\v68260.m
Meth Date : 01-Sep-2002 17:15 mtl Quant Type: ISTD
Cal Date : 20-AUG-2002 12:31 Cal File: V6C2196.D
Als bottle: 23 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	2.041	2.042 (0.290)	342273	34.7360		35
2 Chloromethane	50	2.366	2.367 (0.322)	510368	40.4322		40
3 Vinyl Chloride	62	2.424	2.419 (0.345)	505352	41.3579		41
4 Bromomethane	94	2.820	2.814 (0.401)	341173	39.5716		40
5 Chloroethane	64	2.954	2.948 (0.420)	305240	43.2889		43
6 Trichlorofluoromethane	101	3.245	3.240 (0.462)	644499	44.0809		44
8 1,1-Dichloroethene	96	3.830	3.830 (0.545)	455087	45.5884		46
9 Acetone	43	3.854	3.849 (0.548)	186010	79.0812		79
14 Methylene Chloride	84	4.328	4.329 (0.616)	362869	45.4834		45
15 Acrylonitrile	53	4.584	4.585 (0.652)	624774	296.296		290
17 Methyl tert-butyl ether	73	4.645	4.645 (0.661)	856722	47.7036		48
16 trans-1,2-Dichloroethene	96	4.639	4.645 (0.660)	371536	43.9465		44
18 1,1-Dichloroethane	63	5.095	5.096 (0.725)	631950	45.2906		45
22 2-Butanone	43	5.734	5.734 (0.816)	194587	63.5679		64
23 cis-1,2-Dichloroethene	96	5.734	5.734 (0.816)	347522	42.9433		43
24 2,2-Dichloropropane	77	5.734	5.734 (0.816)	271655	35.0455		35

Data File: V6C2546.D
Report Date: 10-Sep-2002 13:16

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
27 Bromochloromethane	128	5.995	5.996 (0.853)	179087	44.3715		44
29 Tetrahydrofuran	72	6.062	6.069 (0.862)	35364	45.0211		45
28 Chloroform	83	6.074	6.075 (0.864)	622622	46.0077		46
$ 30 Dibromofluoromethane	113	6.281	6.252 (0.889)	373169	51.1593		51
31 1,1,1-Trichloroethane	97	6.306	6.306 (0.897)	531115	44.1356		44
32 1,1-Dichloropropene	110	6.488	6.483 (0.923)	172289	41.8007		42
33 Carbon Tetrachloride	117	6.500	6.501 (0.925)	532395	44.9651		45
$ 35 1,2-Dichloroethane-d4	102	6.634	6.641 (0.944)	94508	52.4303		52
37 Benzene	78	6.719	6.720 (0.956)	1434136	45.7412		46
36 1,2-Dichloroethane	62	6.719	6.726 (0.956)	430358	49.5705		50
* 38 Fluorobenzene	96	7.029	7.030 (1.000)	1483039	50.0000		
39 Trichloroethene	130	7.461	7.456 (1.061)	353509	40.7939		41
40 1,2-Dichloropropane	63	7.711	7.712 (1.097)	358866	46.2470		46
42 Dibromomethane	93	7.851	7.851 (1.117)	208018	46.9684		47
43 Bromodichloromethane	83	8.027	8.028 (1.142)	457400	45.6200		46
45 cis-1,3-Dichloropropene	75	8.569	8.569 (1.219)	497002	42.1438		42
46 4-Methyl-2-pentanone	43	8.745	8.746 (1.244)	313222	56.5467		56
$ 47 Toluene-d8	98	8.915	8.916 (0.828)	1468090	51.4024		51
48 Toluene	91	9.001	9.001 (1.280)	1498949	45.9794		46
49 trans-1,3-Dichloropropene	75	9.250	9.251 (1.316)	474455	45.0920		45
51 1,1,2-Trichloroethane	97	9.487	9.488 (1.350)	295949	47.2478		47
53 Tetrachloroethene	164	9.712	9.713 (0.902)	416706	51.8387		52
54 2-Hexanone	43	9.797	9.798 (0.910)	228970	62.1604		62
55 Dibromochloromethane	129	10.010	10.011 (0.929)	341301	44.7625		45
56 1,2-Dibromoethane	107	10.169	10.175 (0.944)	292808	46.0952		46
115 1-Chlorohexane	91	10.759	10.759 (0.999)	466845	38.7624		39
* 57 Chlorobenzene-d5	117	10.771	10.765 (1.000)	1139196	50.0000		
58 Chlorobenzene	112	10.801	10.802 (1.003)	975872	44.4361		44
59 1,1,1,2-Tetrachloroethane	131	10.899	10.899 (1.012)	352788	43.6643		44
60 Ethylbenzene	106	10.935	10.936 (1.015)	531291	42.6580		43
61 m,p-Xylene	106	11.087	11.086 (1.029)	1337575	89.5915		90
62 o-Xylene	106	11.580	11.581 (1.075)	638373	44.0796		44
64 Styrene	104	11.593	11.593 (1.076)	1059851	46.3743		46
65 Bromoform	173	11.823	11.818 (1.098)	231309	46.3748		46
66 Isopropylbenzene	105	12.030	12.031 (1.117)	1800840	45.8414		46
$ 68 Bromofluorobenzene	95	12.219	12.219 (1.134)	515838	50.7093		51
69 1,1,2,2-Tetrachloroethane	83	12.371	12.371 (0.910)	397338	49.0198		49
70 Bromobenzene	156	12.407	12.408 (0.913)	426235	42.7373		43
71 1,2,3-Trichloropropane	75	12.432	12.432 (0.915)	504198	50.2217		50
72 n-Propylbenzene	120	12.529	12.530 (0.922)	488938	42.6938		43
73 2-Chlorotoluene	126	12.638	12.633 (0.930)	406234	42.2341		42
74 1,3,5-Trimethylbenzene	105	12.736	12.736 (0.937)	1414556	45.4848		45
75 4-Chlorotoluene	126	12.766	12.761 (0.940)	428573	42.7947		43
M 63 Xylene (Total)	106			1975948	133.671		130
76 tert-Butylbenzene	119	13.125	13.126 (0.966)	1545764	42.9619		43
77 1,2,4-Trimethylbenzene	105	13.180	13.181 (0.970)	1432455	45.5779		46
78 sec-Butylbenzene	105	13.381	13.381 (0.985)	1884006	45.6038		46

Data File: V6C2546.D
Report Date: 10-Sep-2002 13:16

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
80 1,3-Dichlorobenzene	146	13.516	13.515	(0.995)	835397	42.8641	43
79 4-Isopropyltoluene	119	13.545	13.546	(0.997)	1552424	44.8827	45
* 81 1,4-Dichlorobenzene-d4	152	13.587	13.588	(1.000)	665679	50.0000	
82 1,4-Dichlorobenzene	146	13.618	13.612	(1.002)	864658	43.4549	43
83 n-Butylbenzene	91	14.013	14.014	(1.031)	1425478	44.0946	44
84 1,2-Dichlorobenzene	146	14.044	14.044	(1.034)	814336	44.7101	45
86 1,2-Dibromo-3-chloropropane	75	14.901	14.908	(1.097)	72092	53.2901	53
87 1,2,4-Trichlorobenzene	180	15.826	15.827	(1.165)	502344	38.6406	39
88 Hexachlorobutadiene	225	16.009	16.009	(1.178)	305974	36.5339	36
89 Naphthalene	128	16.094	16.095	(1.184)	1146598	47.0409	47
90 1,2,3-Trichlorobenzene	180	16.355	16.350	(1.204)	481597	40.4420	40

YH
09/10/02

Date: 8/20/02

Instrument V 6
Injection Log

Mitkem Corporation
Volatiles Laboratory

METHOD: V68260
INITIAL CAL: ~~7/21/02~~ 8/20/02
COMMENTS: RY 8/20/02
CAL ID: VW020820A IS
IS/SS ID: VW020808E SS
VW020808F STD
VW020808D APP IX
VW020808J GAS
ANALYST: RY
ARCHIVE:

AS #	FILE		MITKEM ID		CLIENT ID	SAMPLE SIZE	DIL	COMMENTS	IS	SS	pH
D2	V6C21	90	V6T0820A		BFB6Y	2ul	-	ok 9:18			
1		91	V6S0820A		VSTD0506Y	5ml					
2		92	V6S0820B		VSTD0050Y ~~[illegible]~~						
3		93	V6S0820C		VSTD0016Y			→ for 6 levels ICal			
4		94	V6S0820D		VSTD0006Y			ICal for 8260			
5		95	V6S0820E		VSTD1006Y			Aqueous and M.C Sa[illegible]			
6		96	V6S0820F		VSTD0206Y						
7		97	V6B0820A		VBLK6Y			ok	✓	✓	
8		98	V6L0820A		V6YLCS			ok	✓	✓	
9	V6C21	99	V6L0820B		V6YLCSD			ok	✓	✓	
10	V6C22	00	A1238-	11A	D06086			ok	✓	✓	
11		01		11AMS	D06086MS			ok	✓	✓	
12		02		11AMSD	D06086MSD			ok	✓	✓	
13		03		01A	D06076			ok	✓	✓	
14		04		02A	~~D06077~~ D06077 RY 8/20/02			PCE 1642 RR12X	✓	✓	
15		05		03A	D06078			RR1x Carryover	✓	✓	
16		06		04A	D06079			ok	✓	✓	
17		07		05A	D06080			ok	✓	✓	
18		08		06A	D06081			ok	✓	✓	
19		09		07A	D06082			PCE 851 RR6x	✓	✓	
20		10		08A	D06083			RR1x Carryover	✓	✓	
21		11		09A	D06084			ok	✓	✓	
22		12		10A	D06085			ok	✓	✓	
23		13	A1238-	12A	D06087		-	ok	✓	✓	
24		14	A1206-	01B	1238086		50	RR ~~[illegible]~~ 1x 20:50	✓	✓	
25		15	A1206-	02B	1231001045		50	RR1x RY 8/20/02 OTT	✓	✓	
26		16	A1206-	03B	123116121		100	RR ~~100x~~ 10X	✓	✓	
27		17	A1206-	04B	123141146		50	RR1X	✓	✓	
28	V6C22	18	V6S0820G		VSTD0506Z	5mL	-		✓		

Logbook ID 90.0200-1/02 Reviewed By: SEL 9/13/02 Logbook page: 00019

Date: 8/29/02
(020829B)

Instrument V 6
Injection Log

3236

Mitkem Corporation
Volatiles Laboratory

METHOD: V68260
INITIAL CAL: 8/20/02
COMMENTS:
CAL ID: VW020829A 2SSS
IS/SS ID: VW020808D APP IX
VW020827C STD
VW020808J GAS
ANALYST: RY
ARCHIVE:

AS #	FILE		MITKEM ID		CLIENT ID	SAMPLE SIZE	DIL	COMMENTS	IS	SS	pH
26	V6C24	81	V6T0829B		BFB6V	5mL	-	ok 22:18			
27		82	V6S0829C		VSTD0506V		-	not use			
28		83	V6S0829C		VSTD0506V		-	ok			
29		84	V6B0829B		VBLK6V		-	not use			
30		85	V6B0829B		VBLK6V		-	OK	✓	✓	
31		86	V6L0829B		V6VLCS		-	ok	✓	✓	
32		87	V6L0829C		V6VLCSD		-	ok	✓	✓	
33		88	VT0826-	B1	VBLK6W		-	ok	✓	✓	
34		89	A1248-	18B	1506277		-	ok	✓	✓	
35		90	A1248-	19B	1261217		-	OK	✓	✓	
36		91	A1248-	20B	1262737		-	ok	✓	✓	
37		92	A1248-	21B	1264757		-	ok	✓	✓	
38		93	A1252-	01A	01		-	OK	✓	✓	
39		94	A1243-	01A	MW-6		-	ok	✓	✓	
40		95		02A	MW-19M		-	OK	✓	✓	
41		96		03A	MW-19D		-	ok	✓	✓	
42		97		04A	MW-34		-	Acetone 305, RR2.5X	✓	✓	
43		98		05A	MW-40		-	Acetone 322, RR2.5X	✓	✓	
44	V6C24	99		08E	~~MW-7~~		-	~~Acetone 19, RR1X~~	✓	✓	
45	V6C25	00		09A	MW-41		-	OK	✓	✓	
46		01		11E	MW-35		-	Acetone 354, RR3X	✓	✓	
47		02		12A	~~MW-28~~		-	~~Acetone 5, RR1X~~	✓	✓	
48		03	A1247-	13A	20AUG02-GW-T		-	ok	✓	✓	
49		04	VT0824-	B1	VBLKX		-	OK	✓	✓	
50		05	A1248-	09B	12814		40	OK 09:55	✓	✓	
51	V6C25	06	V6S0829B		VSTD0506W	5mL	-		✓	✓	

[initials] 8/30/02

Logbook ID 90.0200-1/02 Reviewed By: [initials] 8/30/02 Logbook page: 00030

Date: 8/30/02

Instrument V 6
Injection Log

3245

Mitkem Corporation
Volatiles Laboratory

METHOD: V68260
INITIAL CAL: 8/20/02
COMMENTS:
CAL ID: VW020829A 2SSS
IS/SS ID: VW020808D APP IX
VW020827C STD
VW020808J GAS
ANALYST: RY
ARCHIVE:

AS #	FILE		MITKEM ID		CLIENT ID	SAMPLE SIZE	DIL	COMMENTS	IS	SS	pH
D2	V6C25	10	V6T0830A		BFB6X	2ul	-	ok 11:05			
1		11	V6S0830A		VSTD0506X	5mL	-	ok			
2		12	V6B0830A		VBLK6X	5mL	-	ok	✓	✓	
3		13	V6L0830A		V6XLCS	5mL	-	OK	✓	✓	
4		14	A1298-	01A	POST CARBON	25mL	-	OK	✓	N/A	
5		15	A1298-	02A	PRE CARBON	25mL	-	OK	✓	N/A	
6		16	A1243-	08E	MW-7	5mL	-	OK	✓	✓	
7		17	A1243-	12A	MW-28		-	OK	✓	✓	
8		18	V6B0830B		VBLK6Y		-	OK	✓	✓	
9		19	V6L0830B		V6YLCS		-	OK	✓	✓	
10		20	A1278-	01A	TB03-E-14		-	RR1X	✓	✓	
11		21		02A	RB02-C-14		-	OK	✓	✓	020830
12		22		03A	EW-1-A-14		-	OK	✓	✓	
13		23		04A	EW-3-A-14		-	OK	✓	✓	
14		24		05A	EW-15-A-14		-	TCE 247, RR2X	✓	✓	
15		25		06A	EW-15-B-14		-	TCE 251, RR2X	✓	✓	
16		26	A1278-	07A	EW-21-A-14		-	RR1X	✓	✓	
17		27	A1243-	04ADL	MW-34DL		2.5	OK Acetone 142	✓	✓	
18		28		05ADL	MW-40DL		2.5	OK Acetone 139	✓	✓	
19		29		11EDL	MW-35DL		3	OK Acetone 121	✓	✓	
20		30		17A	13MW11		-	OK	✓	✓	
21		31		18A	13M33		-	OK	✓	✓	
22		32		19A	TMW42		-	OK	✓	✓	
23		33	A1243-	20A	EMW36		-	OK	✓	✓	
24	V6C25	34	V6S0830B		VSTD0506Y	5mL	-	23:05	✓	✓	

[initials] 9/1/02

Logbook ID 90.0200-1/02 Reviewed By: [initials] 9/1/02 Logbook page: 00031

Date: 8/20/02 Instrument V 6 Injection Log 3246 Mitkem Corporation Volatiles Laboratory

METHOD: V6 8260 CAL ID: VW020829A - 35/50 ANALYST: KY
INITIAL CAL: 8/20/02 IS/SS ID: VW020820D-0004 ARCHIVE:
COMMENTS: VW020827C - SAS
VW020827A - GAS

AS #	FILE		MITKEM ID		CLIENT ID	SAMPLE SIZE	DIL	COMMENTS	IS	SS	pH
17	VGC 75	40A	VG70830	B	BFBGB	5mL	1	OK 23:22 @ 9/1/02			
18		41	VG50830	C	VSTD050GB		1	OK			
19		42	VG50830	C	VSTD050GB		1	NO Dil			
20		43	VG60830	C	VBLKGB		1	OK	✓	✓	
21		44	VG60830	C	VBLKGB		1	OK	✓	✓	
22		45	VG60830	C	VG2LCS		1	OK	✓	✓	
23		46	VG60830	C	VG2LCSD		1	OK	✓	✓	
24		47	A1243-1	21A	TMW43		1	OK	✓	✓	
25		48		23A	GMW9		1	OK	✓	✓	
26		49		24A	GMW29		1	OK	✓	✓	
27		50		25A	2MW26		1	OK	✓	✓	
28		51		26A	2MW13		1	OK	✓	✓	
29		52		28A	3MW27		1	OK	✓	✓	
30		53		29A	7MW8		1	OK	✓	✓	
31		54		30A	MW15		1	OK	✓	✓	
32		55		31A	7MW30		1	OK	✓	✓	
33		56		33A	12MW21	X 9/20/02	1	OK	✓	✓	
34		57		34A	MW19		1	OK	✓	✓	
35		58		35A	MW99		1	OK	✓	✓	
36		59		36A	MW45		1	OK	✓	✓	
37		60		37A	MW37		1	OK	✓	✓	
38		61		38A	MW10		1	OK	✓	✓	
39		62		39A	MW16		1	OK	✓	✓	
40		63	↓	40A	12MW20		1	OK	✓	✓	
41		64	A1243 -	41A	12MW25		1	OK 11:00	✓	✓	
42		65	VG50830	D	VSTD050GB		1		✓	✓	
43		66	A1259-01	B			20	RR8X	✓	✓	
44	↓	67	A1254-02	B		↓	20	RR16X	✓	✓	
45	VGC25	68	A1258-04	B		5mL	20	RR1X	✓	✓	

Logbook ID 90.0200-1/02 Reviewed By: 8/21/02 Logbook page: 632

000505

MITKEM CORPORATION: VOLATILE ORGANICS TRACKING LOGBOOK

Project	Client	#'s / Analyst/ Date In	Comments	#'s / Analyst/ Date out	#'s / Analyst/ Date In	#'s / Analyst/ Date out
A1233	CDM	01-02	R10 (RD) 8-19-02			
A1236	TetraTech	01-04	R13 (RD) 8/19/02	8/19/02 12:20 YD	8/20/02 11:20 YD	
2038P	Tetra	03-05-08-09	R13 RY 8/20/02			
A1240	L. Berger	17-23-25-33	A-10 SD 8-20-02			
A1237	GZA	01-02	A-10 SD 8-20-02			
A1239	L Berger	01-015	A-10 SD 8-20-02			
A1241	EPA	01-08	A-13 SD 8-20-02	01-08 SD 8/23/02		
A1243	HAP	01-05	A-10 SD 01-05			
A1244	T Tech	01-11	A-13 SD 01-11			
A1248	SCT	01-21	R10 SH 8-21-02			
A1251	TMW	01-04 MS/MSD	R10 SH 8-21-02	8/23/02 18:00 KY	8/23/02 9:00 KY	
A1252	TMW	01 RH DUP	R10 SH 8-21-02			
A1247	CDM	01-02	R10 SH 8-21-02			
A1249	EPA	01-10	R13 SH 8-21-02	01-10 SD 8/24/02	01-10 YD 8/24/02	
A1250	DHD	01-03	R10 SH 8-21-02			
A1220	TetraTech	06-10	R13 SH 8-21-02			
A1236	TetraTech	05-10	R13 SH 8-21-02	8/23/02 12:30 YD	8/23/02 11:20 YD	
A1243	HAP	08-09 11-13	R10 SH 8-21-02			
A1244	TetraTech	18-16	R13 SH 8-21-02			

QAT00190 8V-08

Reviewed By: 8/21/02 Page: 087

000506

MITKEM CORPORATION: VOLATILE ORGANICS TRACKING LOGBOOK

Project	Client	#'s / Analyst/ Date In	Comments	#'s / Analyst/ Date out	#'s / Analyst/ Date In	#'s / Analyst/ Date out
A1232	EPA	01-06	R4 (RD) 8-23-02			
A1243	EPA	02,05,09,12,14				
A1240	CDM	01-14				
A1254	GET	01-07				
A1253	ENSYST	01-03				
A1255	D+B	01				
A1254	T+T	01-06				
A1257	EPA	01-05	R4 8-23-02	8/23/02 19:45	8/24/02 12:20	
A1259	T+T	01-08	R4 8-23-02	8/24/02 12:00		
A1243	HAP	17-21,23-24,25-31				
A1241	KEYSTON	01	RETURN TO SEC (SPLIT AND RETURN)			
A1247	T+T	01-08	R4 (RD) 8-23-02			
A1220	T+T MSMD	11-15				
A1234	T+T	13-14		8/24/02 12:30 YD	8/24/02 12:30 YD	
A1248	CDM	01-04				
A1246	T+T	01-07	R4 (RD) 8-23-02			
A1263	EPA	11-13,15-17	R13 SH 8-24-02			
A1243	33-41 ⇒ HAP		R10 SH 8-24-02			
A1262	EPA	07-08	R13 SH 8-24-02			
A1268	EPA	01-08	R13 SH 8-24-02	8/27/02 11:00 YD	8/27/02 12:00 YD	
A1265	ENVIROTAC	01-10	R10 SH 8-24-02			

QAT00190 8V-08

Reviewed By: 9/1/02 Page: 088

000507

MITKEM CORPORATION

* Semivolatile Organics *

000508

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	S1GLCS	104	109	103	34	49	104	91	106	0
02	S1GLCSD	98	104	101	33	47	103	84	96	0
03	MW-34	88	95	71	29	40	97	77	91	0
04	MW-35	96	99	92	32	46	95	86	98	0
05	MW-26	78	88	74	29	39	94	70	82	0
06	MW-13	93	97	91	37	52	99	88	101	0
07	SBLK1G	111*	116	107	36	52	104	97	119*	2
08	SBLK1Q	83	87	92	74	55	92	77	84	0
09	S1QLCS	90	94	92	76	57	94	78	88	0
10	S1QLCSD	87	92	90	75	56	93	78	88	0
11	13MW11	88	93	82	75	57	91	80	90	0
12	13MW33	86	92	92	76	58	93	80	91	0
13	EMW36	85	92	91	72	55	93	78	90	0
14	3MW6	82	88	90	71	54	93	75	84	0
15	3MW19M	84	90	81	73	56	98	79	90	0
16	3MW27	87	90	77	73	56	98	80	90	0
17	12GWMW17	84	89	87	72	52	101	77	87	0
18	GWMW37	86	88	89	69	50	92	75	85	0
19	12GWMW20	83	87	88	71	52	96	77	87	0
20	12GWMW25	83	87	88	73	53	94	76	86	0
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(48-106)	
S2 (FBP)	= 2-Fluorobiphenyl	(38-120)	
S3 (TPH)	= Terphenyl-d14	(0-147)	
S4 (PHL)	= Phenol-d5	(0-120)	
S5 (2FP)	= 2-Fluorophenol	(1-103)	
S6 (TBP)	= 2,4,6-Tribromophenol	(37-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(28-107)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(37-106)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: S1GLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Phenol	50		19	38	0-127
bis(2-Chloroethyl)Ether	50		55	110*	46-109
2-Chlorophenol	50		48	96	22-117
1,3-Dichlorobenzene	50		47	94	28-103
1,4-Dichlorobenzene	50		49	98	28-104
1,2-Dichlorobenzene	50		51	102	29-107
2-Methylphenol	50		43	86	40-104
2,2'-oxybis(1-Chloropro	50		56	112	10-134
4-Methylphenol	50		40	80	35-106
N-Nitroso-di-n-prop.(1)	50		49	98	44-122
Hexachloroethane	50		51	102	24-104
Nitrobenzene	50		51	102	47-112
Isophorone	50		48	96	48-118
2-Nitrophenol	50		50	100	29-122
2,4-Dimethylphenol	50		47	94	14-109
2,4-Dichlorophenol	50		52	104	31-122
1,2,4-Trichlorobenzene	50		50	100	33-108
Naphthalene	50		52	104	38-117
4-Chloroaniline	50		18	36	0-152
bis(2-Chloroethoxy)meth	50		54	108	49-112
Hexachlorobutadiene	50		48	96	28-109
4-Chloro-3-Methylphenol	50		52	104	48-117
2-Methylnaphthalene	50		54	108	43-113
Hexachlorocyclopentadie	50		43	86	34-103
2,4,6-Trichlorophenol	50		53	106	34-127
2,4,5-Trichlorophenol	50		55	110	32-131
2-Chloronaphthalene	50		52	104	47-116
2-Nitroaniline	50		54	108	51-120

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: S1GLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dimethylphthalate	50		54	108	53-124
Acenaphthylene	50		53	106	50-119
2,6-Dinitrotoluene	50		54	108	52-122
3-Nitroaniline	50		47	94	47-115
Acenaphthene	50		53	106	50-121
2,4-Dinitrophenol	50		51	102	0-144
4-Nitrophenol	50		18	36	0-160
Dibenzofuran	50		56	112	51-122
2,4-Dinitrotoluene	50		55	110	52-126
Diethylphthalate	50		54	108	53-126
4-Chlorophenyl-phenylet	50		55	110	50-124
Fluorene	50		55	110	52-125
4-Nitroaniline	50		49	98	47-117
4,6-Dinitro-2-methylphe	50		53	106	3-151
4-Bromophenyl-phenyleth	50		52	104	51-124
Hexachlorobenzene	50		53	106	52-124
Pentachlorophenol	50		54	108	5-125
Phenanthrene	50		55	110	52-128
Anthracene	50		56	112	52-127
Carbazole	50		57	114	54-126
Di-n-butylphthalate	50		56	112	56-132
Fluoranthene	50		56	112	53-130
Pyrene	50		53	106	53-131
Butylbenzylphthalate	50		51	102	54-128
3,3'-Dichlorobenzidine	50		51	102	41-117
Benzo(a)anthracene	50		53	106	56-124
Chrysene	50		53	106	53-123
bis(2-Ethylhexyl)phthal	50		52	104	56-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: S1GLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Di-n-octylphthalate	50		50	100	59-138
Benzo(b)fluoranthene	50		51	102	58-126
Benzo(k)fluoranthene	50		52	104	60-124
Benzo(a)pyrene	50		52	104	61-121
Indeno(1,2,3-cd)pyrene	50		60	120	23-152
Dibenzo(a,h)anthracene	50		58	116	60-122
Benzo(g,h,i)perylene	50		61	122	57-124

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: S1GLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	50	18	36	5	40	0-127
bis(2-Chloroethyl)Ether	50	50	100	10	40	46-109
2-Chlorophenol	50	44	88	9	40	22-117
1,3-Dichlorobenzene	50	43	86	9	40	28-103
1,4-Dichlorobenzene	50	44	88	11	40	28-104
1,2-Dichlorobenzene	50	47	94	8	40	29-107
2-Methylphenol	50	40	80	7	40	40-104
2,2'-oxybis(1-Chloropro	50	51	102	9	40	10-134
4-Methylphenol	50	38	76	5	40	35-106
N-Nitroso-di-n-prop.(1)	50	47	94	4	40	44-122
Hexachloroethane	50	46	92	10	40	24-104
Nitrobenzene	50	48	96	6	40	47-112
Isophorone	*50*	*47*	*94*	*2*	*40*	*48-116*
2-Nitrophenol	50	48	96	4	40	29-122
2,4-Dimethylphenol	50	44	88	6	40	14-109
2,4-Dichlorophenol	50	50	100	4	40	31-122
1,2,4-Trichlorobenzene	50	46	92	8	40	33-108
Naphthalene	50	48	96	8	40	38-117
4-Chloroaniline	50	20	40	10	40	0-152
bis(2-Chloroethoxy)meth	50	51	102	6	40	49-112
Hexachlorobutadiene	50	45	90	6	40	28-109
4-Chloro-3-Methylphenol	50	51	102	2	40	48-117
2-Methylnaphthalene	50	51	102	6	40	43-113
Hexachlorocyclopentadie	50	39	78	10	40	34-103
2,4,6-Trichlorophenol	50	50	100	6	40	34-127
2,4,5-Trichlorophenol	50	51	102	8	40	32-131
2-Chloronaphthalene	*50*	*49*	*98*	*6*	*40*	*47-116*
2-Nitroaniline	50	50	100	8	40	51-120

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

000513

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: S1GLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dimethylphthalate	50	52	104	4	40	53-124
Acenaphthylene	50	50	100	6	40	50-119
2,6-Dinitrotoluene	50	51	102	6	40	32-122
3-Nitroaniline	50	47	94	0	40	47-115
Acenaphthene	50	51	102	4	40	50-121
2,4-Dinitrophenol	50	49	98	4	40	0-144
4-Nitrophenol	50	18	36	0	40	0-160
Dibenzofuran	50	53	106	6	40	51-122
2,4-Dinitrotoluene	50	52	104	6	40	52-126
Diethylphthalate	50	53	106	2	40	53-126
4-Chlorophenyl-phenylet	50	53	106	4	40	50-124
Fluorene	50	52	104	6	40	52-125
4-Nitroaniline	50	47	94	4	40	47-117
4,6-Dinitro-2-methylphe	50	52	104	2	40	3-151
4-Bromophenyl-phenyleth	50	50	100	4	40	51-124
Hexachlorobenzene	50	51	102	4	40	52-124
Pentachlorophenol	50	52	104	4	40	5-125
Phenanthrene	50	53	106	4	40	52-128
Anthracene	50	54	108	4	40	52-127
Carbazole	50	55	110	4	40	54-126
Di-n-butylphthalate	50	54	108	4	40	56-132
Fluoranthene	50	54	108	4	40	53-130
Pyrene	50	51	102	4	40	53-131
Butylbenzylphthalate	50	50	100	2	40	54-128
3,3'-Dichlorobenzidine	50	49	98	4	40	41-117
Benzo(a)anthracene	50	51	102	4	40	56-124
Chrysene	50	52	104	2	40	53-123
bis(2-Ethylhexyl)phthal	50	51	102	2	40	56-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

000514

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: S1GLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Di-n-octylphthalate	50	48	96	4	40	59-138
Benzo(b)fluoranthene	50	48	96	6	40	58-126
Benzo(k)fluoranthene	50	50	100	4	40	60-124
Benzo(a)pyrene	50	49	98	6	40	61-121
Indeno(1,2,3-cd)pyrene	50	56	112	7	40	23-152
Dibenzo(a,h)anthracene	50	55	110	5	40	60-122
Benzo(g,h,i)perylene	50	58	116	5	40	57-124

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 63 outside limits
Spike Recovery: 1 out of 126 outside limits

COMMENTS:

000515

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: S1QLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Phenol	50		39	78	0-127
bis(2-Chloroethyl)Ether	50		38	76	46-109
2-Chlorophenol	50		40	80	22-117
1,3-Dichlorobenzene	50		34	68	28-103
1,4-Dichlorobenzene	*50*		*35*	*70*	*28-104*
1,2-Dichlorobenzene	50		37	74	29-107
2-Methylphenol	50		44	88	40-104
2,2'-oxybis(1-Chloropro	50		40	80	10-134
4-Methylphenol	50		46	92	35-106
N-Nitroso-di-n-prop.(1)	50		41	82	44-122
Hexachloroethane	50		39	78	24-104
Nitrobenzene	50		42	84	47-112
Isophorone	50		39	78	48-118
2-Nitrophenol	50		42	84	29-122
2,4-Dimethylphenol	50		40	80	14-109
2,4-Dichlorophenol	50		45	90	31-122
1,2,4-Trichlorobenzene	50		39	78	33-108
Naphthalene	50		40	80	38-117
4-Chloroaniline	*50*		39	78	0-152
bis(2-Chloroethoxy)meth	50		44	88	49-112
Hexachlorobutadiene	50		37	74	28-109
4-Chloro-3-Methylphenol	50		47	94	48-117
2-Methylnaphthalene	50		43	86	43-113
Hexachlorocyclopentadie	50		18	36	34-103
2,4,6-Trichlorophenol	50		46	92	34-127
2,4,5-Trichlorophenol	50		48	96	32-131
2-Chloronaphthalene	50		42	84	47-116
2-Nitroaniline	50		43	86	51-120

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

000516

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: S1QLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dimethylphthalate	50		45	90	53-124
Acenaphthylene	50		43	86	50-119
2,6-Dinitrotoluene	50		45	90	52-122
3-Nitroaniline	50		41	82	47-115
Acenaphthene	50		44	88	50-121
2,4-Dinitrophenol	50		45	90	0-144
4-Nitrophenol	50		46	92	0-160
Dibenzofuran	50		46	92	51-122
2,4-Dinitrotoluene	50		47	94	52-126
Diethylphthalate	50		46	92	53-126
4-Chlorophenyl-phenylet	50		47	94	50-124
Fluorene	50		46	92	52-125
4-Nitroaniline	50		40	80	47-117
4,6-Dinitro-2-methylphe	50		44	88	3-151
4-Bromophenyl-phenyleth	50		44	88	51-124
Hexachlorobenzene	50		46	92	52-124
Pentachlorophenol	50		46	92	5-125
Phenanthrene	50		46	92	52-128
Anthracene	50		46	92	52-127
Carbazole	50		46	92	54-126
Di-n-butylphthalate	50		47	94	56-132
Fluoranthene	50		46	92	53-130
Pyrene	50		45	90	53-131
Butylbenzylphthalate	50		43	86	54-128
3,3'-Dichlorobenzidine	50		31	62	41-117
Benzo(a)anthracene	50		44	88	56-124
Chrysene	50		43	86	53-123
bis(2-Ethylhexyl)phthal	50		45	90	56-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

000517

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: S1QLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Di-n-octylphthalate	50	49	98	1	40	58-138
Benzo(b)fluoranthene	50	44	88	0	40	58-126
Benzo(k)fluoranthene	50	46	92	0	40	60-124
Benzo(a)pyrene	50	42	84	0	40	61-121
Indeno(1,2,3-cd)pyrene	50	41	82	0	40	23-152
Dibenzo(a,h)anthracene	50	41	82	0	40	60-122
Benzo(g,h,i)perylene	50	40	80	0	40	57-124

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

000518

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: S1QLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	50	41	82	5	40	0-127
bis(2-Chloroethyl)Ether	50	40	80	5	40	46-109
2-Chlorophenol	50	41	82	2	40	22-117
1,3-Dichlorobenzene	50	37	74	8	40	28-103
1,4-Dichlorobenzene	50	38	76	8	40	28-104
1,2-Dichlorobenzene	50	40	80	8	40	29-107
2-Methylphenol	50	45	90	2	40	40-104
2,2'-oxybis(1-Chloropro	50	40	80	0	40	10-134
4-Methylphenol	50	47	94	2	40	35-106
N-Nitroso-di-n-prop.(1)	50	42	84	2	40	44-122
Hexachloroethane	50	42	84	7	40	24-104
Nitrobenzene	50	43	86	2	40	47-112
Isophorone	50	40	80	2	40	48-118
2-Nitrophenol	50	43	86	2	40	29-122
2,4-Dimethylphenol	50	43	86	7	40	14-109
2,4-Dichlorophenol	50	46	92	2	40	31-122
1,2,4-Trichlorobenzene	50	41	82	5	40	33-108
Naphthalene	50	42	84	5	40	38-117
4-Chloroaniline	50	35	70	11	40	0-152
bis(2-Chloroethoxy)meth	50	45	90	2	40	49-112
Hexachlorobutadiene	50	39	78	5	40	28-109
4-Chloro-3-Methylphenol	50	47	94	0	40	48-117
2-Methylnaphthalene	50	44	88	2	40	43-113
Hexachlorocyclopentadie	50	20	40	10	40	34-103
2,4,6-Trichlorophenol	50	47	94	2	40	34-127
2,4,5-Trichlorophenol	50	48	96	0	40	32-131
2-Chloronaphthalene	50	43	86	2	40	47-116
2-Nitroaniline	50	43	86	0	40	51-120

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

000519

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: S1QLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dimethylphthalate	50	46	92	2	40	53-124
Acenaphthylene	50	44	88	2	40	50-119
2,6-Dinitrotoluene	50	46	92	2	40	52-122
3-Nitroaniline	50	40	80	2	40	47-115
Acenaphthene	50	46	92	4	40	50-121
2,4-Dinitrophenol	50	46	92	2	40	0-144
4-Nitrophenol	50	46	92	0	40	0-160
Dibenzofuran	50	48	96	4	40	51-122
2,4-Dinitrotoluene	50	48	96	2	40	52-126
Diethylphthalate	50	46	92	0	40	53-126
4-Chlorophenyl-phenylet	50	47	94	0	40	50-124
Fluorene	50	47	94	2	40	52-125
4-Nitroaniline	50	39	78	2	40	47-117
4,6-Dinitro-2-methylphe	50	47	94	6	40	3-151
4-Bromophenyl-phenyleth	50	46	92	4	40	51-124
Hexachlorobenzene	50	48	96	4	40	52-124
Pentachlorophenol	50	48	96	4	40	5-125
Phenanthrene	50	48	96	4	40	52-128
Anthracene	50	47	94	2	40	52-127
Carbazole	50	49	98	6	40	54-126
Di-n-butylphthalate	50	48	96	2	40	56-132
Fluoranthene	50	49	98	6	40	53-130
Pyrene	50	46	92	2	40	53-131
Butylbenzylphthalate	50	44	88	2	40	54-128
3,3'-Dichlorobenzidine	50	25	50	21	40	41-117
Benzo(a)anthracene	50	46	92	4	40	56-124
Chrysene	50	44	88	2	40	53-123
bis(2-Ethylhexyl)phthal	50	45	90	0	40	56-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

000520

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: S1QLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Di-n-octylphthalate	50	49	98	0	40	59-138
Benzo(b)fluoranthene	50	46	92	4	40	58-126
Benzo(k)fluoranthene	50	47	94	2	40	60-124
Benzo(a)pyrene	50	44	88	5	40	61-121
Indeno(1,2,3-cd)pyrene	50	44	88	7	40	23-152
Dibenzo(a,h)anthracene	50	44	88	7	40	60-122
Benzo(g,h,i)perylene	50	43	86	7	40	57-124

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* *Values outside of QC limits*

RPD: 0 out of 63 outside limits
Spike Recovery: 0 out of 126 outside limits

COMMENTS: _____

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.: SBLK1G

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID: S1D0586 Lab Sample ID: S0821-BW1

Instrument ID: S1 Date Extracted: 08/21/02

Matrix: (soil/water) WATER Date Analyzed: 08/27/02

Level: (low/med) LOW Time Analyzed: 2312

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	S1QLCS	S0821-LW1	S1D0570	08/27/02
02	S1QLCSD	S0821-LW1D	S1D0571	08/27/02
03	MW-34	A1243-04D	S1D0576	08/27/02
04	MW-35	A1243-11F	S1D0577	08/27/02
05	MW-26	A1243-16E	S1D0578	08/27/02
06	MW-13	A1243-15E	S1D0579	08/27/02
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.: SBLK1Q

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID: S1D0678 Lab Sample ID: S0825-BW1

Instrument ID: S1 Date Extracted: 08/25/02

Matrix: (soil/water) WATER Date Analyzed: 08/31/02

Level: (low/med) LOW Time Analyzed: 1253

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	S1QLCS	*S0825-LW1*	*S1D0679*	*08/31/02*
02	S1QLCSD	S0825-LW1D	S1D0680	08/31/02
03	13MW11	A1243-17E	S1D0681	08/31/02
04	13MW33	A1243-18E	S1D0682	08/31/02
05	EMW36	A1243-20E	S1D0683	08/31/02
06	3MW6	A1243-22A	S1D0684	08/31/02
07	3MW19M	A1243-27A	S1D0685	08/31/02
08	3MW27	A1243-28E	S1D0686	08/31/02
09	12GWMW17	A1243-33E	S1D0687	08/31/02
10	GWMW37	A1243-37F	S1D0688	08/31/02
11	12GWMW20	A1243-40F	S1D0689	08/31/02
12	12GWMW25	A1243-41F	S1D0690	08/31/02
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID: S1D0555 DFTPP Injection Date: 08/26/02

Instrument ID: S1 DFTPP Injection Time: 1729

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	32.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	51.4
70	Less than 2.0% of mass 69	0.1 (0.3)1
127	40.0 - 60.0% of mass 198	49.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	18.3
365	Greater than 1.0% of mass 198	1.96
441	Present, but less than mass 443	10.0
442	40.0 - 99.9% of mass 198	62.7
443	17.0 - 23.0% of mass 442	12.4 (19.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0501E	SS0826A	S1D0556	08/26/02	1747
02	SSTD0101E	SS0826C	S1D0557	08/26/02	1827
03	SSTD0201E	SS0826D	S1D0558	08/26/02	1907
04	SSTD0801E	SS0826E	S1D0559	08/26/02	1947
05	SSTD1201E	SS0826F	S1D0560	08/26/02	2027
06	SSTD1601E	SS0826B	S1D0561	08/26/02	2107
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID: S1D0564 DFTPP Injection Date: 08/27/02

Instrument ID: S1 DFTPP Injection Time: 0953

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	32.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	51.9
70	Less than 2.0% of mass 69	0.1 (0.3)1
127	40.0 - 60.0% of mass 198	49.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	18.0
365	Greater than 1.0% of mass 198	1.84
441	Present, but less than mass 443	9.5
442	40.0 - 99.9% of mass 198	59.9
443	17.0 - 23.0% of mass 442	12.0 (20.1)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0501F	SS0827A	S1D0565	08/27/02	1013
02	S1GLCS	S0821-LW1	S1D0570	08/27/02	1330
03	S1GLCSD	S0821-LW1D	S1D0571	08/27/02	1409
04	MW-34	A1243-04D	S1D0576	08/27/02	1727
05	MW-35	A1243-11F	S1D0577	08/27/02	1807
06	MW-26	A1243-16E	S1D0578	08/27/02	1847
07	MW-13	A1243-15E	S1D0579	08/27/02	1927
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM V SV

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID: S1D0584 DFTPP Injection Date: 08/27/02

Instrument ID: S1 DFTPP Injection Time: 2212

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	32.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	51.9
70	Less than 2.0% of mass 69	0.1 (0.3)1
127	40.0 - 60.0% of mass 198	49.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	*5.0 to 9.0% of mass 198*	6.9
275	10.0 - 30.0% of mass 198	17.6
365	Greater than 1.0% of mass 198	1.80
441	Present, but less than mass 443	8.8
442	40.0 - 99.9% of mass 198	54.1
443	17.0 - 23.0% of mass 442	10.9 (20.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0501G	SS0827B	S1D0585	08/27/02	2232
02	SBLK1G	S0821-BW1	S1D0586	08/27/02	2312
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM V SV

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID: S1D0676 DFTPP Injection Date: 08/31/02

Instrument ID: S1 DFTPP Injection Time: 1137

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	42.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	67.7
70	Less than 2.0% of mass 69	0.3 (0.4)1
127	40.0 - 60.0% of mass 198	54.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	15.9
365	Greater than 1.0% of mass 198	1.67
441	Present, but less than mass 443	7.6
442	40.0 - 99.9% of mass 198	48.2
443	17.0 - 23.0% of mass 442	9.6 (20.0)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0501N	SS0831A	S1D0677	08/31/02	1156
02	SBLK1Q	S0825-BW1	S1D0678	08/31/02	1253
03	S1QLCS	S0825-LW1	S1D0679	08/31/02	1332
04	S1QLCSD	S0825-LW1D	S1D0680	08/31/02	1411
05	13MW11	A1243-17E	S1D0681	08/31/02	1450
06	13MW33	A1243-18E	S1D0682	08/31/02	1529
07	RMW36	A1243-20E	S1D0683	08/31/02	1609
08	3MW6	A1243-22A	S1D0684	08/31/02	1649
09	3MW19M	A1243-27A	S1D0685	08/31/02	1729
10	3MW27	A1243-28E	S1D0686	08/31/02	1809
11	12GWMW17	A1243-33E	S1D0687	08/31/02	1848
12	GWMW37	A1243-37F	S1D0688	08/31/02	1927
13	12GWMW20	*A1243-40F*	*S1D0689*	*08/31/02*	*2006*
14	12GWMW25	A1243-41F	S1D0690	08/31/02	2046
15					
16					
17					
18					
19					
20					
21					
22					

FORM V SV

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID (Standard): S1D0565 Date Analyzed: 08/27/02

Instrument ID: S1 Time Analyzed: 1013

	IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
12 HOUR STD	227020	7.36	823839	9.76	386858	13.26
UPPER LIMIT	454040	7.86	1647678	10.26	773716	13.76
LOWER LIMIT	113510	6.86	411920	9.26	193429	12.76
EPA SAMPLE NO.						
01 S1GLCS	185761	7.36	675527	9.76	314590	13.26
02 S1GLCSD	193126	7.36	697479	9.76	335008	13.26
03 MW-34	203519	7.36	756379	9.75	353946	13.25
04 MW-35	178319	7.36	645954	9.75	308451	13.25
05 MW-26	196369	7.36	738834	9.75	346699	13.25
06 MW-13	196008	7.35	741461	9.75	352865	13.25
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID (Standard): S1D0565 Date Analyzed: 08/27/02

Instrument ID: S1 Time Analyzed: 1013

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	631873	16.24	482505	21.60	363967	24.24
	UPPER LIMIT	1263746	16.74	965010	22.10	727934	24.74
	LOWER LIMIT	315937	15.74	241253	21.10	181984	23.74
	EPA SAMPLE NO.						
01	S1GLCS	520722	16.24	395173	21.59	298458	24.24
02	*S1GLCSD*	*553893*	*16.24*	*424618*	*21.60*	*325664*	*24.25*
03	MW-34	578991	16.24	456172	21.57	324423	24.24
04	MW-35	496351	16.24	384645	21.57	274699	24.23
05	MW-26	562320	16.24	430299	21.58	301633	24.24
06	MW-13	562473	16.24	422622	21.58	291136	24.23
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID (Standard): S1D0585 Date Analyzed: 08/27/02

Instrument ID: S1 Time Analyzed: 2232

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	226214	7.35	827554	9.75	391734	13.25
	UPPER LIMIT	452428	7.85	1655108	10.25	783468	13.75
	LOWER LIMIT	113107	6.85	413777	9.25	195867	12.75
	EPA SAMPLE NO.						
01	SBLK1G	181821	7.35	668993	9.75	315455	13.25
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID (Standard): S1D0585 Date Analyzed: 08/27/02

Instrument ID: S1 Time Analyzed: 2232

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	637270	16.24	477198	21.59	322322	24.24
	UPPER LIMIT	1274540	16.74	954396	22.09	644644	24.74
	LOWER LIMIT	318635	15.74	238599	21.09	161161	23.74
	EPA SAMPLE NO.						
01	SBLK1G	512534	16.23	372136	21.57	235411	24.23
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID (Standard): S1D0677 Date Analyzed: 08/31/02

Instrument ID: S1 Time Analyzed: 1156

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	218891	6.91	820362	9.28	383069	12.76
	UPPER LIMIT	437782	7.41	1640724	9.78	766138	13.26
	LOWER LIMIT	109446	6.41	410181	8.78	191535	12.26
	EPA SAMPLE NO.						
01	SBLK1Q	183487	6.89	704050	9.27	330267	12.75
02	S1QLCS	183993	6.90	687697	9.27	329209	12.75
03	S1QLCSD	181568	6.90	685962	9.27	324685	12.75
04	13MW11	173092	6.89	649002	9.27	309424	12.75
05	13MW33	155229	6.89	588923	9.27	280270	12.75
06	EMW36	183448	6.90	685815	9.27	328222	12.74
07	3MW6	179948	6.90	678266	9.27	327695	12.75
08	3MW19M	213649	6.91	805813	9.27	384073	12.75
09	3MW27	226662	6.90	837970	9.27	404972	12.75
10	12GWMW17	253964	6.90	952878	9.27	457157	12.75
11	GWMW37	255960	6.90	957753	9.27	458761	12.74
12	12GWMW20	268923	6.89	1008797	9.27	484200	12.75
13	12GWMW25	275127	6.90	1021689	9.27	490752	12.75
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID (Standard): S1D0677 Date Analyzed: 08/31/02

Instrument ID: S1 Time Analyzed: 1156

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	625676	15.72	432797	21.03	270004	23.67
	UPPER LIMIT	1251352	16.22	865594	21.53	540008	24.17
	LOWER LIMIT	312838	15.22	216399	20.53	135002	23.17
	EPA SAMPLE NO.						
01	SBLK1Q	519685	15.71	370945	21.02	251464	23.66
02	S1QLCS	552910	15.72	403179	21.03	265463	23.67
03	S1QLCSD	531994	15.72	392010	21.04	256248	23.67
04	13MW11	501436	15.71	357351	21.02	234566	23.67
05	13MW33	438222	15.71	299833	21.02	194203	23.66
06	EMW36	517245	15.71	369107	21.03	243097	23.66
07	3MW6	519301	15.71	371654	21.02	226616	23.66
08	3MW19M	607885	15.72	431285	21.02	257517	23.67
09	3MW27	636110	15.72	452524	21.02	281347	23.67
10	12GWMW17	721212	15.72	512358	21.02	314074	23.67
11	GWMW37	732392	15.71	542037	21.03	368363	23.67
12	12GWMW20	790210	15.72	580594	21.03	392118	23.67
13	12GWMW25	806308	15.72	575717	21.02	348360	23.67
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-2

000533

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 12GWMW17

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-33E

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0687

Level: (low/med) LOW Date Received: 08/23/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

000534

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 12GWMW17

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-33E

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0687

Level: (low/med) LOW Date Received: 08/23/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	7	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

000535

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: 12GWMW17

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-33E

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0687

Level: (low/med) LOW Date Received: 08/23/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

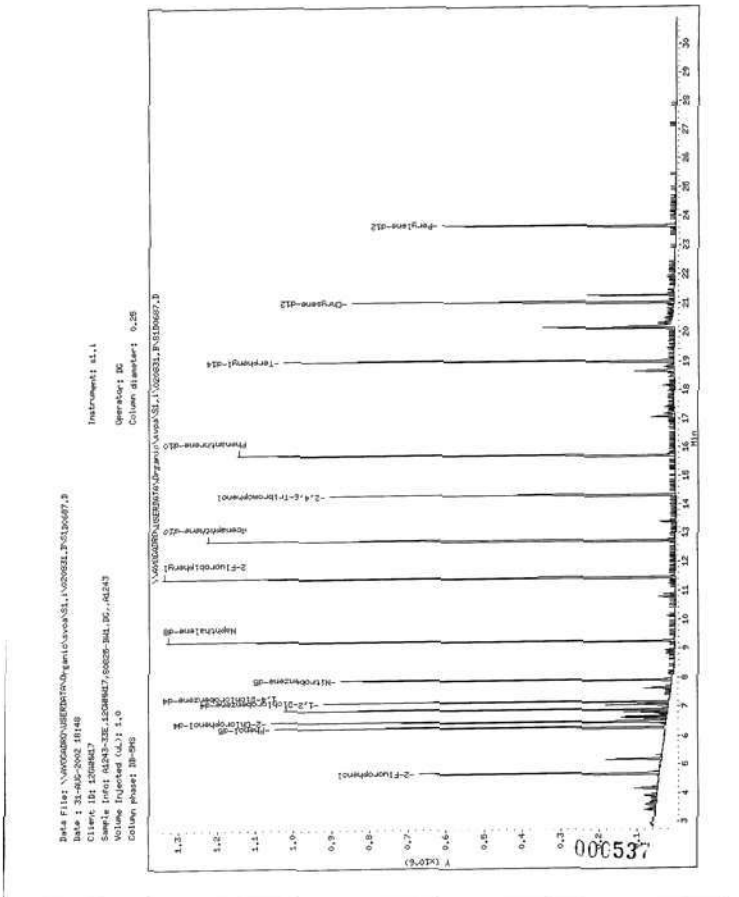
Number TICs found: 7

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.19	6	J
2.	UNKNOWN	6.61	5	J
3.	UNKNOWN	6.66	5	J
4.	UNKNOWN	6.82	5	J
5.	UNKNOWN	7.07	6	J
6.	UNKNOWN	18.66	6	J
7. 301-02-0	9-OCTADECENAMIDE, (Z)-	20.15	17	NJ
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

000536



000537

Data File: S1D0687.D
Report Date: 04-Sep-2002 14:42

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0687.D
Lab Smp Id: A1243-33E Client Smp ID: 12GWMW17
Inj Date : 31-AUG-2002 18:48
Operator : DG Inst ID: s1.i
Smp Info : A1243-33E,12GWMW17,S0825-BW1,DG,,A1243
Misc Info : 0,,,1,,,,,,,,25-AUG-02,23-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1_8270C.m
Meth Date : 31-Aug-2002 12:45 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
$	3 2-Fluorophenol	112	4.692	4.691	(0.680)	385858	39.1600	39
$	5 Phenol-d5	99	6.901	6.900	(0.914)	644336	53.7637	54
$	9 2-Chlorophenol-d4	132	6.496	6.495	(0.942)	561273	57.9070	58
*	12 1,4-Dichlorobenzene-d4	152	6.895	6.895	(1.000)	253964	40.0000	
$	14 1,2-Dichlorobenzene-d4	152	7.165	7.165	(1.039)	224306	43.5372	44
$	22 Nitrobenzene-d5	82	7.921	7.921	(0.854)	442046	42.1536	42
*	31 Naphthalene-d8	136	9.272	9.282	(1.000)	952878	40.0000	
$	41 2-Fluorobiphenyl	172	11.453	11.464	(0.898)	668853	44.6689	45
*	48 Acenaphthene-d10	164	12.780	12.760	(2.000)	497287	40.0000	
$	60 2,4,6-Tribromophenol	330	14.357	14.357	(0.912)	186669	76.0418	76
*	64 Phenanthrene-d10	188	15.720	15.719	(1.000)	721212	40.0000	
$	71 Terphenyl-d14	244	19.006	19.003	(0.904)	558249	43.4146	43
*	76 Chrysene-d12	240	21.024	21.034	(1.000)	512958	40.0000	
	78 bis(2-Ethylhexyl)phthalate	149	21.283	21.293	(1.012)	116837	6.55135	7(a)

000538

Data File: S1D0687.D
Report Date: 04-Sep-2002 14:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
*	83 Perylene-d12	264	23.670	23.669	(1.000)	314074	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

8/14/02

000539

Data File: S1D0687.D
Report Date: 04-Sep-2002 14:42

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0687.D
Lab Smp Id: A1243-33E Client Smp ID: 12GWMW17
Inj Date : 31-AUG-2002 18:48
Operator : DG Inst ID: s1.i
Smp Info : A1243-33E,12GWMW17,S0825-BW1,DG,,A1243
Misc Info : 0,,,1,,,,,,,,25-AUG-02,23-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1_8270C.m
Meth Date : 31-Aug-2002 12:45 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

ISTD	RT	AREA	AMOUNT
* 12 1,4-Dichlorobenzene-d4	6.895	1502726	40.000
* 76 Chrysene-d12	21.024	1720055	40.000

	RT	AREA	CONCENTRATIONS ON-COL(ng)	CONCENTRATIONS FINAL(ug/L)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	QUANT CPND #
Unknown				CAS #:				
	5.189	345471	6.53401884	6	0		0	13
Unknown				CAS #:				
	6.614	191605	4.83401498	5	0		0	13

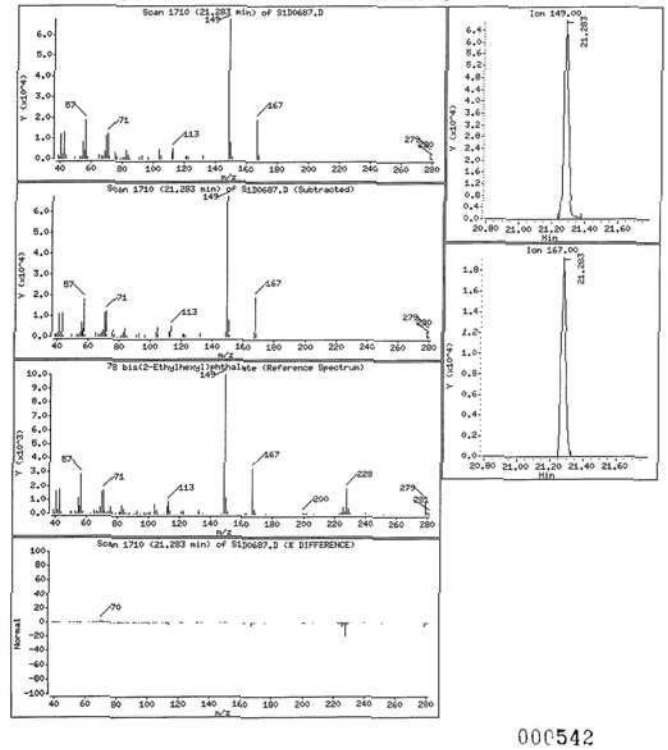
000540

Data File: S1D0687.D
Report Date: 04-Sep-2002 14:42

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
6.658	203622	5.42006993	%	0		0	12
Unknown				CAS #:			
6.820	197092	5.24625248	%	0		0	12
Unknown				CAS #:			
7.068	231875	6.19873483	%	0		0	12
Unknown				CAS #:			
18.658	277645	6.45665400	%	0		0	76
9-Octadecenamide, (Z)-				CAS #: 301-02-0			
20.149	728544	16.9428071	17	87	NBS75K.L	39626	76

000541

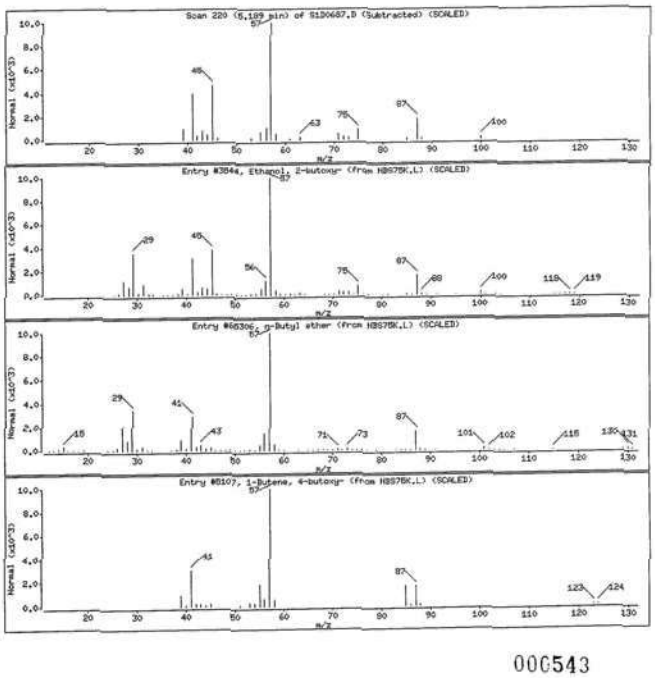
Data File: \\AVOGADRO\USERDATA\Organic\avoa\S1.i\020831.B\S1D0687.D
Date : 31-AUG-2002 18:48
Client ID: 12GH4417 Instrument: s1.i
Sample Info: A1243-33E,12GH4417,S0825-BH1,IG,,A1243
Volume Injected (uL): 1.0 Operator: IG
Column phase: DB-5MS Column diameter: 0.25
78 bis(2-Ethylhexyl)phthalate Concentration: 7 ug/L



000542

Data File: \\AVOGADRO\USERDATA\Organic\avoa\S1.i\020831.B\S1D0687.D
Date : 31-AUG-2002 18:48
Client ID: 12GH4417 Instrument: s1.i
Sample Info: A1243-33E,12GH4417,S0825-BH1,IG,,A1243
Volume Injected (uL): 1.0 Operator: IG
Column phase: DB-5MS Column diameter: 0.25

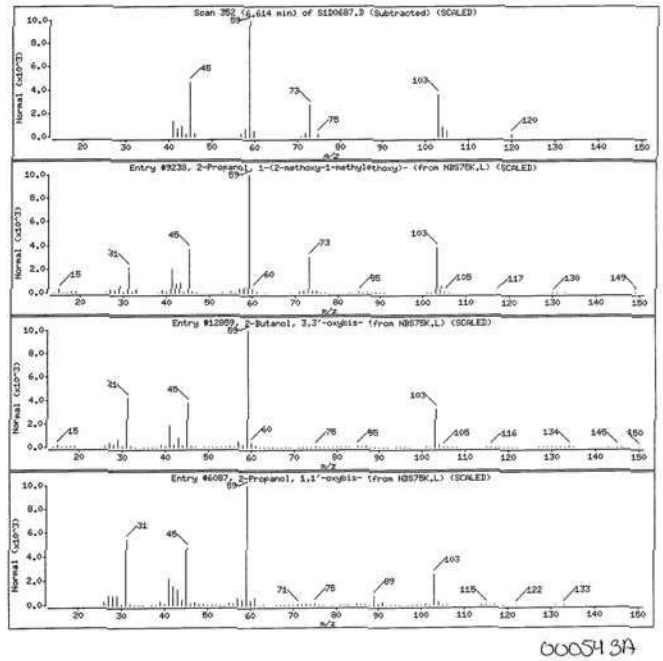
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Ethanol, 2-butoxy-	111-76-2	NBS75K.L	3544	93	C6H14O2	118
n-Butyl ether	142-96-1	NBS75K.L	65306	25	C8H18O	130
1-Butene, 4-butoxy-	34061-76-2	NBS75K.L	6107	25	C8H16O	128



000543

Data File: \\AVOGADRO\USERDATA\Organic\avoa\S1.i\020831.B\S1D0687.D
Date : 31-AUG-2002 18:48
Client ID: 12GH4417 Instrument: s1.i
Sample Info: A1243-33E,12GH4417,S0825-BH1,IG,,A1243
Volume Injected (uL): 1.0 Operator: IG
Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Propanol, 1-(2-methoxy-1-methylethoxy)	20324-32-7	NBS75K.L	9238	83	C7H16O3	148
2-Butanol, 3,3'-oxybis-	54306-61-2	NBS75K.L	12869	64	C8H18O3	162
2-Propanol, 1,1'-oxybis-	110-98-5	NBS75K.L	6087	50	C6H14O3	134



000543A

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.1\020831.B\S1D0687.D

Date : 31-AUG-2002 18:48

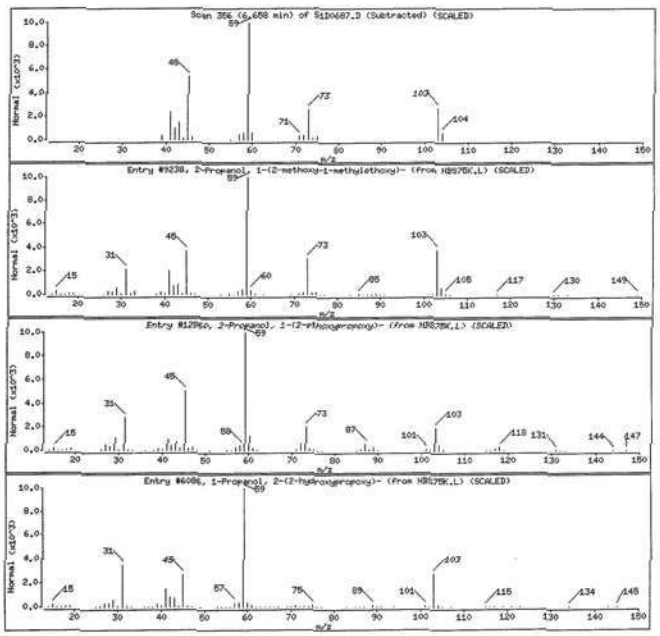
Client ID: 12GM9417 Instrument: s1.1

Sample Info: A1243-33E,12GM9417,S0825-BN1,DG,,A1243

Volume Injected (uL): 1.0 Operator: DG

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Propanol, 1-(2-methoxy-1-methylethoxy)	20324-32-7	NBS75K.L	9238	72	C7H1603	148
2-Propanol, 1-(2-ethoxypropoxy)-	10143-32-6	NBS75K.L	12960	56	C8H1803	162
1-Propanol, 2-(2-hydroxypropoxy)-	106-62-7	NBS75K.L	6086	45	C6H1403	134



000544

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.1\020831.B\S1D0687.D

Date : 31-AUG-2002 18:48

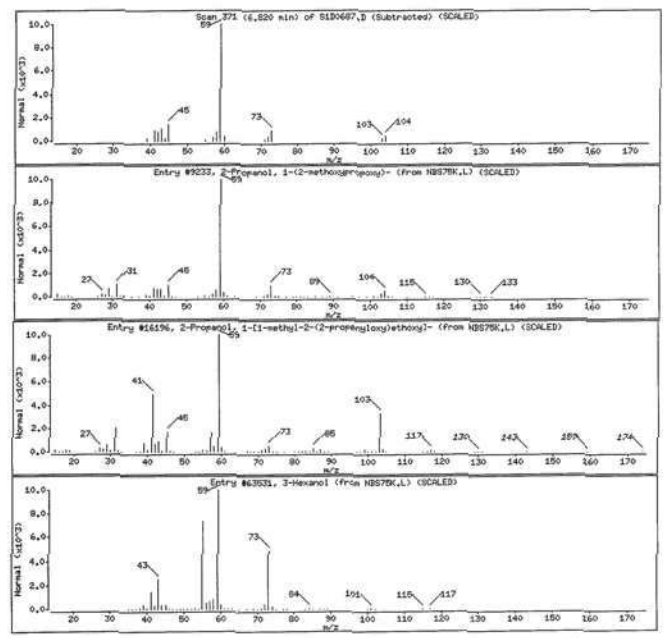
Client ID: 12GM9417 Instrument: s1.1

Sample Info: A1243-33E,12GM9417,S0825-BN1,DG,,A1243

Volume Injected (uL): 1.0 Operator: DG

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Propanol, 1-(2-methoxypropoxy)-	13429-07-7	NBS75K.L	9233	83	C7H1603	148
2-Propanol, 1-[1-methyl-2-(2-propenyloxy	58956-26-7	NBS75K.L	16196	78	C9H1803	174
3-Hexanol	623-37-0	NBS75K.L	63831	39	C6H140	102



000545

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.1\020831.B\S1D0687.D

Date : 31-AUG-2002 18:48

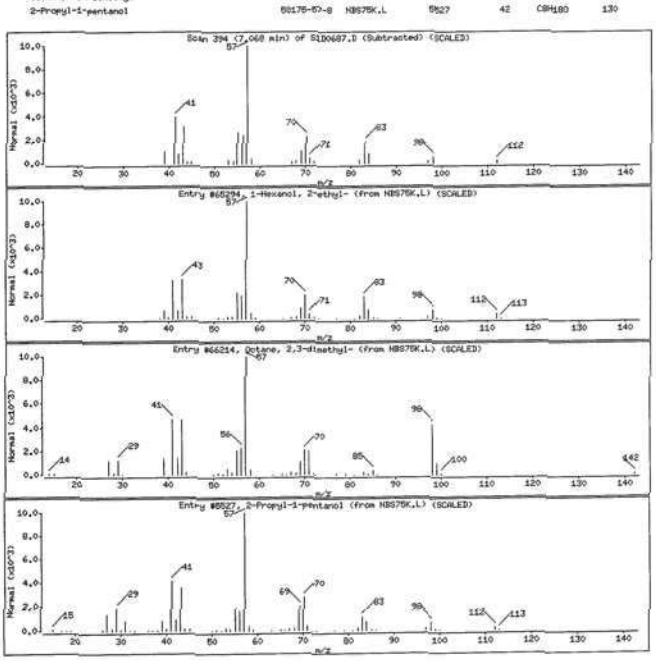
Client ID: 12GM9417 Instrument: s1.1

Sample Info: A1243-33E,12GM9417,S0825-BN1,DG,,A1243

Volume Injected (uL): 1.0 Operator: DG

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Hexanol, 2-ethyl-	104-76-7	NBS75K.L	65294	83	C8H180	130
Octane, 2,3-dimethyl-	7146-60-3	NBS75K.L	66214	46	C10H22	142
2-Propyl-1-pentanol	58175-57-8	NBS75K.L	9527	42	C8H180	130



000546

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.1\020831.B\S1D0687.D

Date : 31-AUG-2002 18:48

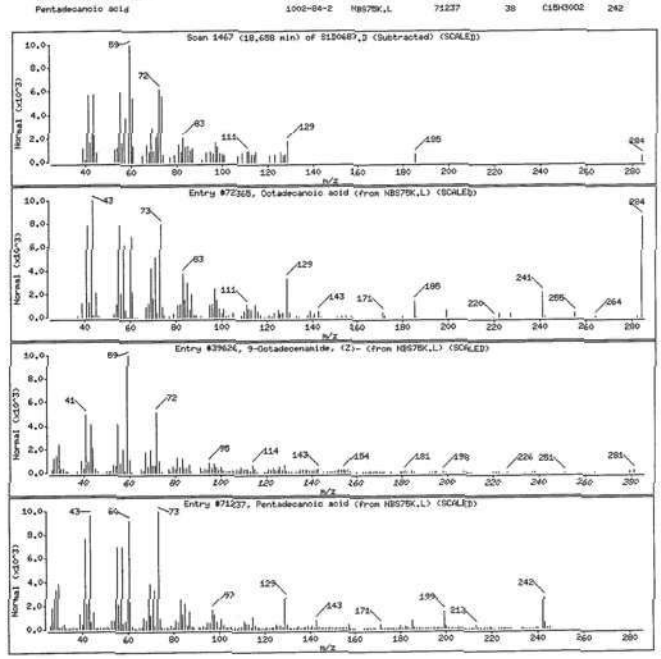
Client ID: 12GM9417 Instrument: s1.1

Sample Info: A1243-33E,12GM9417,S0825-BN1,DG,,A1243

Volume Injected (uL): 1.0 Operator: DG

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Octadecanoic acid	57-11-4	NBS75K.L	72368	74	C18H3602	284
9-Octadecenamide, (Z)-	301-02-0	NBS75K.L	39624	50	C18H35NO	281
Pentadecanoic acid	1002-84-2	NBS75K.L	71237	38	C15H3002	242



000547

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1,i\020831,B\S1D0687,D

Date : 31-AUG-2002 18:48

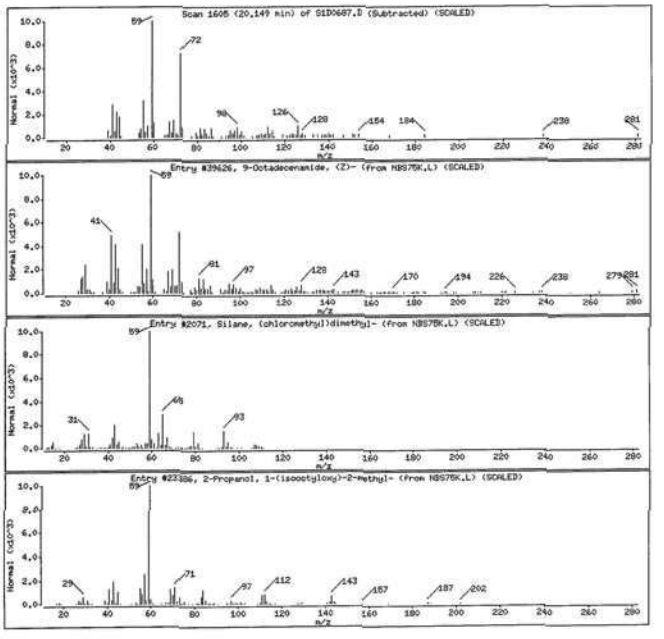
Client ID: 12GW4417 Instrument: s1.i

Sample Info: A1243-33E,12GW4417,50825-BW1,SG,,A1243

Volume Injected (uL): 1.0 Operator: SG

Column phase: SB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
9-Octadecenamide, (Z)-	301-02-0	NBS75K.L	39626	87	C18H35NO	281
Silane, (chloromethyl)dimethyl-	3144-74-9	NBS75K.L	2071	43	C3H9ClSi	108
2-Propanol, 1-(isooctyloxy)-2-methyl-	56292-27-0	NBS75K.L	23386	43	C12H26O2	202



000548

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 12GWMW20

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-40F

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0689

Level: (low/med) LOW *Date Received: 08/23/02*

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

000549

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 12GWMW20

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-40F

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0689

Level: (low/med) LOW Date Received: 08/23/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02

Injection Volume: 1.0(uL) *Dilution Factor: 1.0*

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroanilline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	3	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

000550

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: 12GWMW20

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-40F

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0689

Level: (low/med) LOW Date Received: 08/23/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

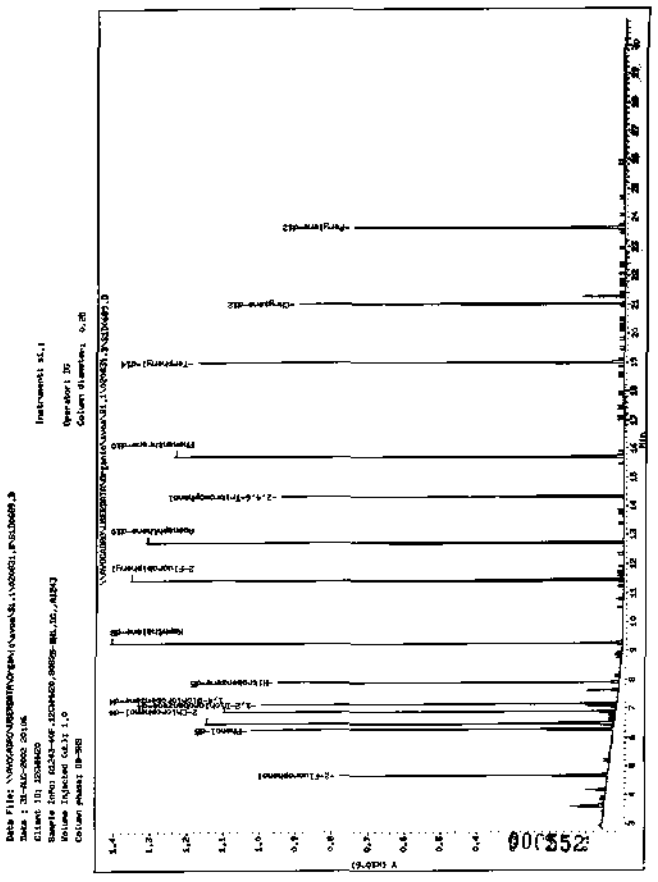
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

000551



000552

Data File: S1D0689.D
Report Date: 04-Sep-2002 14:43

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0689.D
Lab Smp Id: A1243-40F Client Smp ID: 12GWMW20
Inj Date : 31-AUG-2002 20:06
Operator : DG Inst ID: s1.i
Smp Info : A1243-40F,12GWMW20,$0825-BW1,DG,,A1243
Misc Info : 0,,,1,,,,,,,25-AUG-02,23-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1_8270C.m
Meth Date : 31-Aug-2002 12:45 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

*Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)*

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$	5 2-Fluorophenol	112	4.651	4.651	(0.460)	403310	38.6942	39
$	6 Phenol-d5	99	4.901	4.866	(0.936)	479692	53.2942	53
$	9 2-Chloroethanol-d4	132	6.499	6.463	(0.942)	580597	57.9527	58
*	13 1,4-Dichlorobenzene-d4	152	6.859	6.905	(1.000)	268853	40.0000	
$	14 1,2-Dichlorobenzene-d4	152	7.165	7.165	(1.059)	337003	42.4425	42
$	22 Nitrobenzene-d5	82	7.921	7.951	(0.856)	482459	42.8572	42
*	31 Naphthalene-d8	136	9.371	9.282	(1.000)	1008787	40.0000	
$	41 2-Fluorobiphenyl	172	11.647	11.646	(0.888)	691930	44.5937	44
*	46 Acenaphthene-d10	164	12.749	12.748	(1.000)	484260	40.0000	
$	60 2,4,6-Tribromophenol	330	14.397	14.337	(0.912)	193442	71.7544	72
*	64 Phenanthrene-d10	188	15.720	15.719	(1.000)	720130	40.0000	
$	72 Terphenyl-d14	244	18.003	19.009	(0.903)	644455	44.3283	44
*	75 Chrysene-d12	240	21.034	21.034	(1.000)	585894	40.0000	
	78 Bis(2-Ethylhexyl)phthalate	149	21.262	21.293	(1.011)	65896	3.4644a	3(a)

000553

Data File: S1D0689.D
Report Date: 04-Sep-2002 14:43

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 85 Perylene-d12	264	28.670	28.669	(1.000)	588118	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

SMA 9/4/02

KC

000554

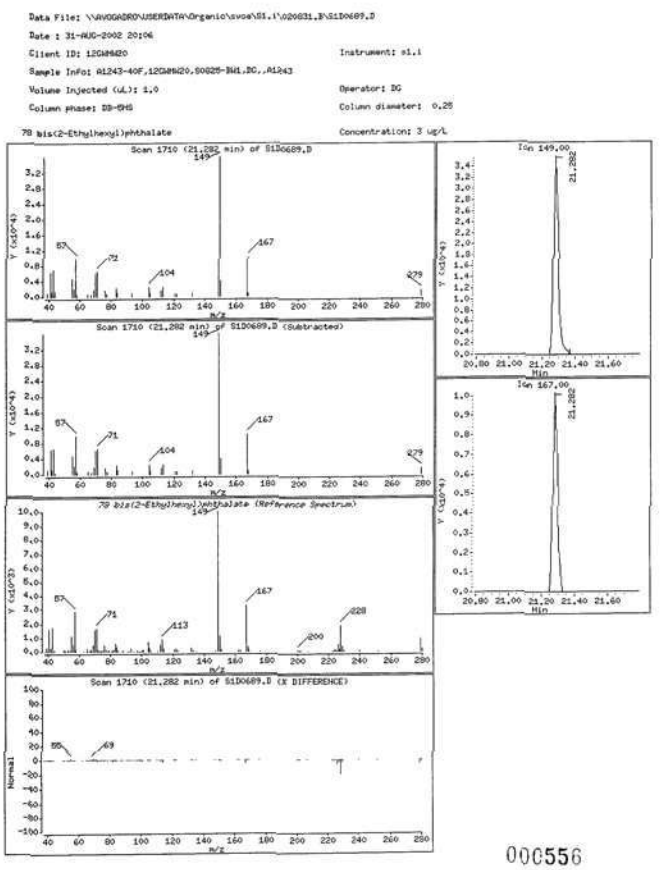
Data File: S1D0689.D
Report Date: 04-Sep-2002 14:43

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0689.D
Lab Smp Id: A1243-40F Client Smp ID: 12GWMW20
Inj Date : 31-AUG-2002 20:06
Operator : DG Inst ID: s1.i
Smp Info : A1243-40F,12GWMW20,$0825-BW1,DG,,A1243
Misc Info : 0,,,1,,,,,,,25-AUG-02,23-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1_8270C.m
Meth Date : 31-Aug-2002 12:45 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

000555



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 12GWMW25

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-41F
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0690
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 12GWMW25

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-41F
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0690
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroanilline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	4	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

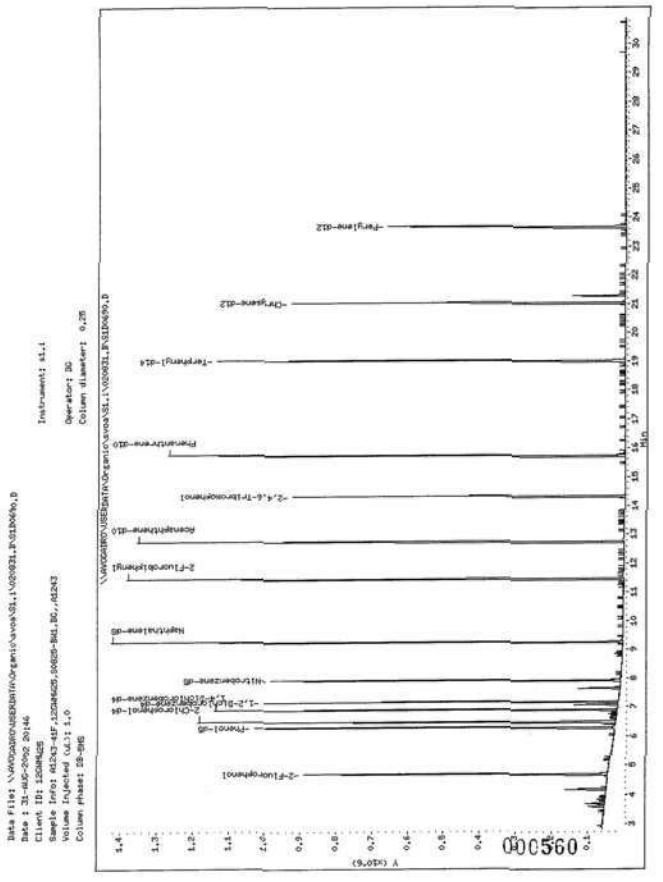
EPA SAMPLE NO.: 12GWMW25

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-41F
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0690
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC



Data File: S1D0690.D
Report Date: 04-Sep-2002 14:43

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0690.D
Lab Smp Id: A1243-41F Client Smp ID: 12GWMW25
Inj Date : 31-AUG-2002 20:46
Operator : DG Inst ID: s1.i
Smp Info : A1243-41F,12GWMW25,S0825-BW1,DG,,A1243
Misc Info : 0,,,1,,,,,,,25-AUG-02,23-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1_8270C.m
Meth Date : 31-Aug-2002 12:45 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)	
$	3 2-Fluorophenol	112	4.692	4.691	(0.680)	432773	39.4060	40	
$	5 Phenol-d5	99	6.301	6.300	(0.914)	709833	54.4835	54	
$	8 2-Chlorophenol-d4	132	6.496	6.495	(0.942)	599251	57.0695	57	
*	12 1,4-Dichlorobenzene-d4	152	6.895	6.905	(1.000)	275127	40.0000		(Q)
$	14 1,2-Dichlorobenzene-d4	152	7.165	7.165	(1.039)	240619	43.1110	43	
$	22 Nitrobenzene-d5	82	7.921	7.931	(0.854)	465346	41.3868	41	
*	31 Naphthalene-d8	136	9.272	9.282	(1.000)	1021689	40.0000		
$	41 2-Fluorobiphenyl	172	11.453	11.464	(0.898)	701725	43.9561	44	
*	48 Acenaphthene-d10	164	12.750	12.760	(1.000)	490752	40.0000		
$	60 2,4,6-Tribromophenol	330	14.337	14.337	(0.912)	194366	70.9138	71	
*	64 Phenanthrene-d10	188	15.720	15.719	(1.000)	806308	40.0000		
$	71 Terphenyl-d14	244	19.004	19.003	(0.904)	632447	43.7857	44	
*	76 Chrysene-d12	240	21.034	21.034	(1.000)	575717	40.0000		
	78 bis(2-Ethylhexyl)phthalate	149	21.383	21.393	(1.012)	82291	4.35718	4(m)	

000561

Data File: S1D0690.D
Report Date: 04-Sep-2002 14:43

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 83 Perylene-d12	264	23.670	23.669	(1.000)	348360	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Scott 9/4/02

KC

000562

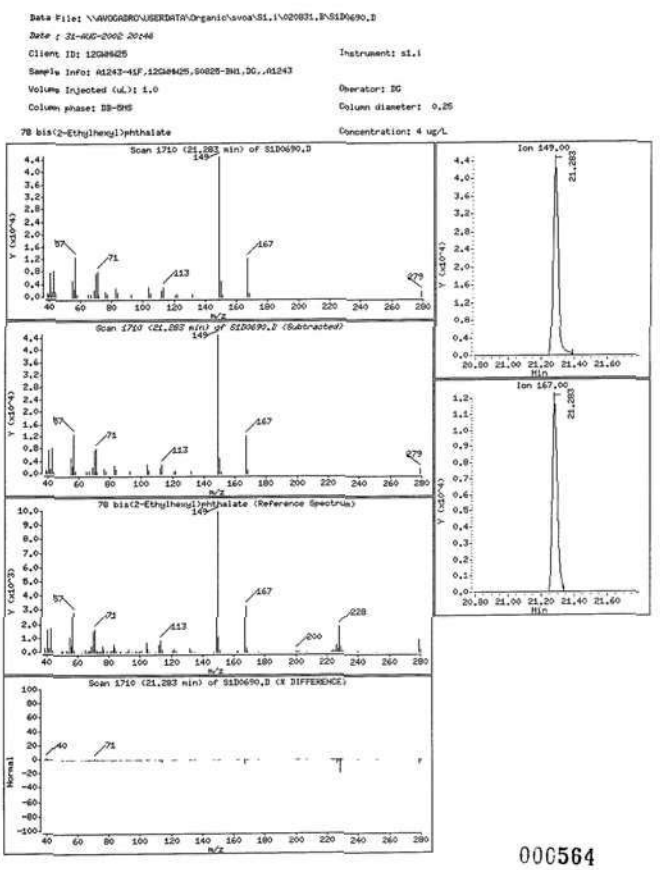
Data File: S1D0690.D
Report Date: 04-Sep-2002 14:43

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0690.D
Lab Smp Id: A1243-41F Client Smp ID: 12GWMW25
Inj Date : 31-AUG-2002 20:46
Operator : DG Inst ID: s1.i
Smp Info : A1243-41F,12GWMW25,S0825-BW1,DG,,A1243
Misc Info : 0,,,1,,,,,,,25-AUG-02,23-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1_8270C.m
Meth Date : 31-Aug-2002 12:45 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

000563



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13MW11

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-17E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0681
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	2	J
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	*Hexachlorobutadiene*	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13MW11

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-17E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0681
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

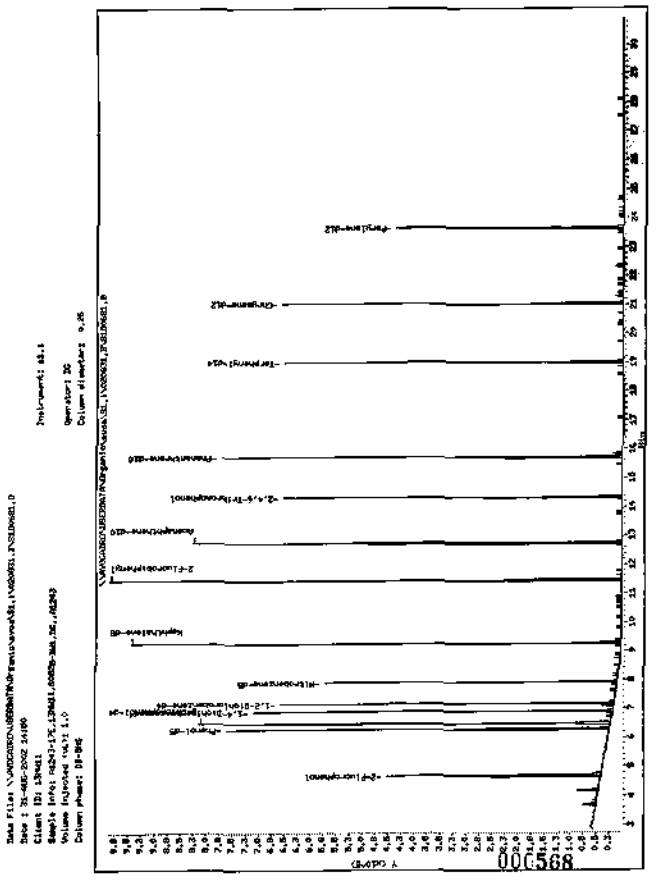
EPA SAMPLE NO.
13MW11

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-17E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0681
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC



Data File: S1D0681.D
Report Date: 04-Sep-2002 14:42

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0681.D
Lab Smp Id: A1243-17E Client Smp ID: 13MW11
Inj Date : 31-AUG-2002 14:50
Operator : DG Inst ID: s1.i
Smp Info : A1243-17E,13MW11,S0825-BW1,DG,,A1243
Misc Info : 0,,,1,,,,,,,25-AUG-02,22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1_8270C.m
Meth Date : 31-Aug-2002 12:45 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	Quant Ion MASS	RT	Exp RT	Rel RT	RESPONSE	CONCENTRATIONS On-Column (ng)	FINAL (ug/L)	
$	3 2-Fluorophenol	112	6.880	6.691	(0.678)	269456	43.1008	43	
$	4 Phenol-d5	99	6.788	8.308	(0.953)	481058	56.2497	56	
$	9 2-Chlorophenol-d4	132	8.486	8.495	(0.960)	384635	46.0405	46	
*	10 1,4-Dichlorobenzene-d4	152	8.896	8.908	(1.000)	178092	48.0000		
$	14 1,2-Dichlorobenzene-d4	152	9.168	9.168	(1.028)	168723	45.2012	45	
$	22 Nitrobenzene-d5	82	9.910	9.951	(0.893)	335332	44.1696	44	
*	31 Naphthalene-d8	136	9.971	9.985	(1.000)	449692	48.0000		
	32 Naphthalene	128	9.909	9.985	(1.001)	25848	1.71188	2[a]	
$	41 2-Fluorobiphenyl	172	11.458	11.464	(0.898)	475592	46.7296	47	
*	49 Acenaphthene-d10	164	12.749	12.740	(1.000)	709424	48.0000		
$	50 2,4,6-Tribromophenol	330	14.926	14.933	(0.852)	114601	58.3176	58	
*	66 Phenanthrene-d10	188	15.706	15.716	(1.000)	501458	48.0000		
$	71 Terphenyl-d14	244	19.043	19.059	(0.904)	345978	40.7853	41	
*	76 Chrysene-d12	240	21.033	21.034	(1.000)	587151	48.0000		

Data File: S1D0681.D
Report Date: 04-Sep-2002 14:42

	Compounds	Quant Ion MASS	RT	Exp RT	Rel RT	RESPONSE	CONCENTRATIONS On-Column (ng)	FINAL (ug/L)	
	78 Bis(2-Ethylhexyl)phthalate	149	21.282	21.293	(1.013)	34722	1.18691	1[a]	
*	80 Perylene-d12	264	23.469	23.469	(1.000)	224346	48.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

9/4/02

Data File: S1D0681.D
Report Date: 04-Sep-2002 14:42

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0681.D
Lab Smp Id: A1243-17E Client Smp ID: 13MW11
Inj Date : 31-AUG-2002 14:50
Operator : DG Inst ID: s1.i
Smp Info : A1243-17E,13MW11,S0825-BW1,DG,,A1243
Misc Info : 0,,,1,,,,,,,25-AUG-02,22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1_8270C.m
Meth Date : 31-Aug-2002 12:45 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0681.D

Date : 31-AUG-2002 14:50

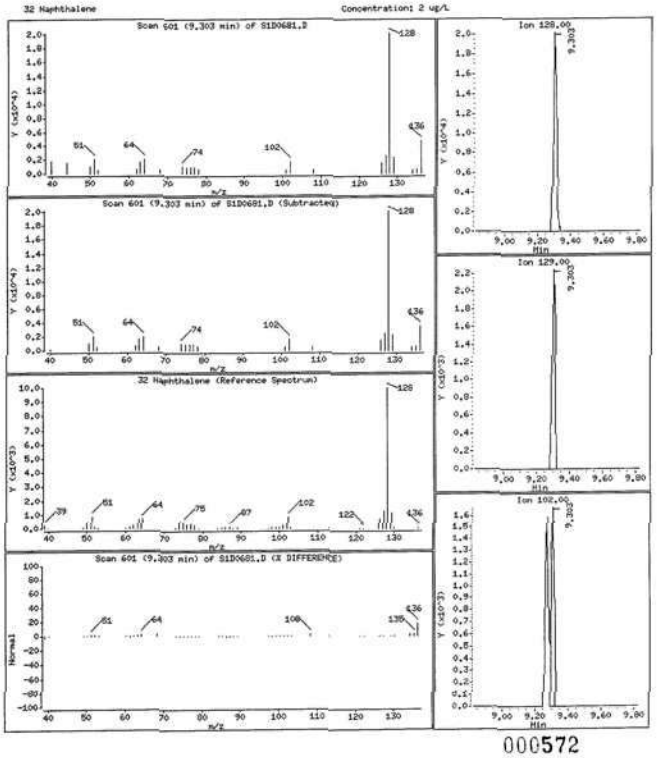
Client ID: 13M411 Instrument: s1.i

Sample Info: A1243-17E,13M411,S0825-BH1,DC,,A1243

Volume Injected (uL): 1.0 Operator: DC

Column phase: DB-5MS Column diameter: 0.25

32 Naphthalene Concentration: 2 ug/L



000572

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0681.D

Date : 31-AUG-2002 14:50

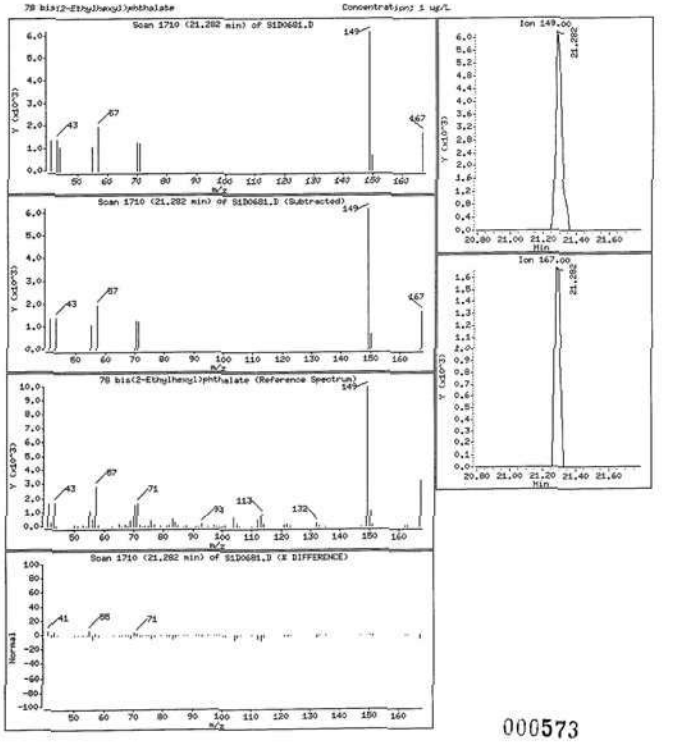
Client ID: 13M411 Instrument: s1.i

Sample Info: A1243-17E,13M411,S0825-BH1,DC,,A1243

Volume Injected (uL): 1.0 Operator: DC

Column phase: DB-5MS Column diameter: 0.25

78 bis(2-Ethylhexyl)phthalate Concentration: 1 ug/L



000573

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

13MW33

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-18E

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0682

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	*N-Nitroso-di-n-propylamine*	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	*2-Methylnaphthalene*	*10*	*U*
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

000574

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

13MW33

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-18E

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0682

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	*CONCENTRATION UNITS:* (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	*N*-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	6	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

000575

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

13MW33

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-18E

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0682

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

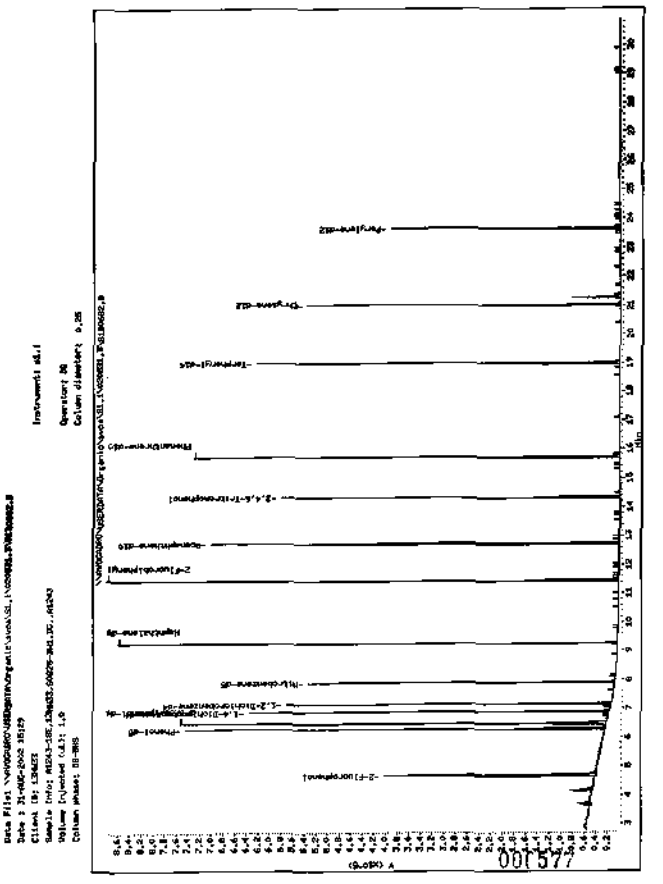
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC

000576



000577

Data File: S1D0682.D
Report Date: 04-Sep-2002 14:42

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0682.D
Lab Smp Id: A1243-18E Client Smp ID: 13MW33
Inj Date : 31-AUG-2002 15:29
Operator : DG Inst ID: s1.i
Smp Info : A1243-18E,13MW33,S0825-BW1,DG,,A1243
Misc Info : 0,,,1,,,,,,,25-AUG-02,22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1_8270C.m
Meth Date : 31-Aug-2002 12:45 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	QUANT RIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS 08-0825BW (ng\	FINAL (ug/l)
S	2-Fluorophenol	112	4.680	4.681	(0.679)	282531	45.8307	46
S	Phenol-d5	99	4.263	4.269	(0.952)	419149	57.0684	57
S	2-Chlorophenol-d4	132	4.484	4.495	(0.640)	356719	50.2119	50
*	13 1,4-Dichlorobenzene-d4	152	4.894	4.905	(1.000)	185228	40.0000	
S	14 1,2-Dichlorobenzene-d4	152	7.104	7.115	(1.019)	164083	49.7443	48
S	22 Nitrobenzene-d5	82	7.910	7.921	(0.953)	280055	42.9106	43
*	31 Naphthalene-d8	136	9.271	9.282	(1.000)	888835	40.0000	
S	41 2-Fluorobiphenyl	172	11.453	11.464	(0.998)	432269	49.9973	50
*	48 Acenaphthene-d10	164	12.749	12.760	(1.000)	380270	40.0000	
S	60 2,4,6-Tribromophenol	330	14.525	14.537	(0.912)	106310	69.9131	70
*	64 Phenanthrene-d10	188	15.708	15.719	(1.000)	438222	40.0000	
S	71 Terphenyl-d14	244	18.993	19.003	(0.924)	346464	45.9619	46
*	76 Chrysene-d12	240	21.029	21.039	(1.000)	298673	40.0000	
	78 bis(2-Ethylhexyl)phthalate	149	21.282	21.293	(1.013)	57421	6.87860	6(a)

000578

Data File: S1D0682.D
Report Date: 04-Sep-2002 14:42

Compounds	QUANT RIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS 08-0825BW (ng\	FINAL (ug/l)
* 80 Perylene-d12	264	23.858	23.869	(1.000)	194267	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

9/4/02

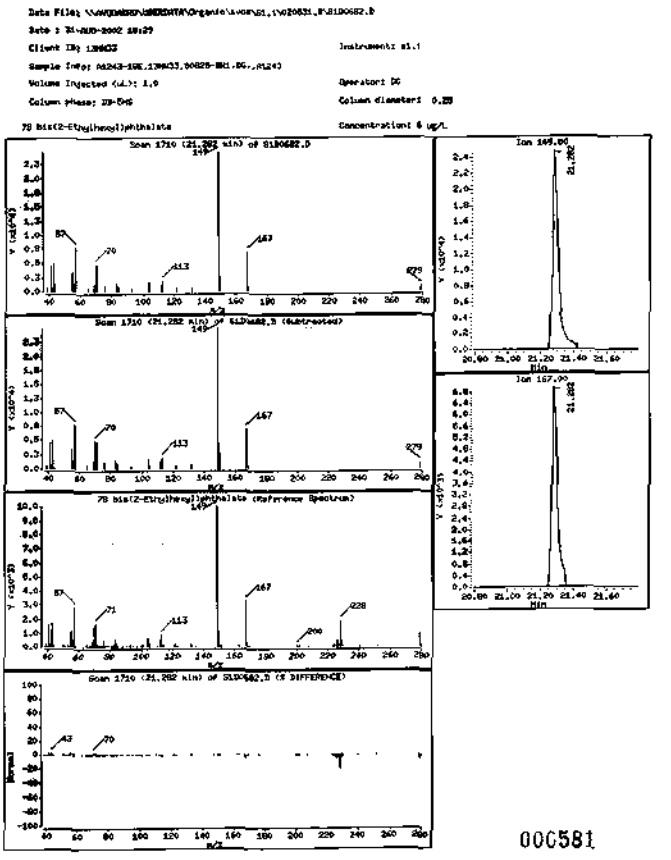
000579

Data File: S1D0682.D
Report Date: 04-Sep-2002 14:42

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0682.D
Lab Smp Id: A1243-18E Client Smp ID: 13MW33
Inj Date : 31-AUG-2002 15:29
Operator : DG Inst ID: S1.i
Smp Info : A1243-18E,13MW33,S0825-BW1,DG,,A1243
Misc Info : 0,,,1,,,,,,,25-AUG-02,22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1_8270C.m
Meth Date : 31-Aug-2002 12:45 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.b
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

- NO TENTATIVELY IDENTIFIED COMPOUNDS -



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
3MW19M

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-27A
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0685
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6 Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
3MW19M

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-27A
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0685
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	2	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	2	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
3MW19M

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-27A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0685

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

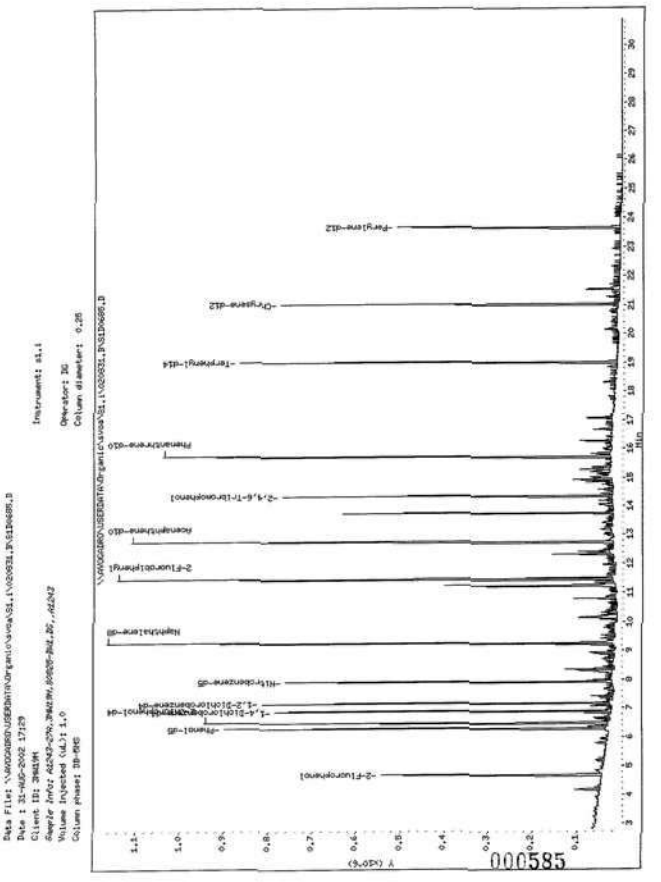
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 8

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	8.31	7	J
2.		UNKNOWN	8.35	4	J
3.		UNKNOWN	9.22	5	J
4.		UNKNOWN	10.16	8	J
5.		UNKNOWN	11.24	18	J
6.	74367-34-3	PROPANOIC ACID, 2-METHYL-, 3	11.48	13	NJ
7.		UNKNOWN	12.33	5	J
8.		UNKNOWN	21.54	6	J
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC



Data File: S1D0685.D
Report Date: 04-Sep-2002 14:42

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0685.D
Lab Smp Id: A1243-27A Client Smp ID: 3MW19M
Inj Date : 31-AUG-2002 17:29
Operator : DG Inst ID: s1.i
Smp Info : A1243-27A,3MW19M,S0825-BW1,DG,,A1243
Misc Info : 0,,,1,,,,,,,,2S-AUG-02,22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1_8270C.m
Meth Date : 31-Aug-2002 12:45 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)	
$	3 2-Fluorophenol	112	4.691	4.691	(0.679)	346536	41.8064	42	
$	5 Phenol-d5	99	6.300	6.300	(0.912)	556948	55.0498	55	
$	9 2-Chlorophenol-d4	132	6.495	6.495	(0.941)	481243	59.0191	59	
*	12 1,4-Dichlorobenzene-d4	152	6.905	6.905	(1.000)	213649	40.0000		
$	14 1,2-Dichlorobenzene-d4	152	7.164	7.165	(1.038)	194122	44.7884	45	
$	22 Nitrobenzene-d5	82	7.920	7.931	(0.854)	373366	42.1045	42	
*	31 Naphthalene-d8	136	9.271	9.282	(1.000)	800813	40.0000		
#	41 2-Fluorobiphenyl	172	11.452	11.464	(0.998)	588187	45.1886	45	
*	48 Acenaphthene-d10	164	12.749	12.760	(1.000)	384073	40.0000		
	54 Diethylphthalate	149	13.743	13.754	(1.078)	36891	2.58453	2(a)	
$	60 2,4,6-Tribromophenol	330	14.336	14.337	(0.913)	152593	73.7287	74	
*	64 Phenanthrene-d10	188	15.719	15.719	(1.000)	607895	40.0000		
	69 Di-n-butylphthalate	149	17.069	17.069	(1.086)	46395	1.97145	2(a)	
$	71 Terphenyl-d14	244	19.003	19.003	(0.904)	428118	40.4768	40	

Data File: S1D0685.D
Report Date: 04-Sep-2002 14:42

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)	
* 74 Chrysene-d12	240	21.023	21.034	(1.000)	431285	40.0000		
78 bis(2-Ethylhexyl)phthalate	149	21.281	21.293	(1.012)	15906	1.13424	1(a)	
* 83 Perylene-d12	264	23.669	23.669	(1.000)	357517	40.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

SAS 9/4/02

KC

Data File: S1D0685.D
Report Date: 04-Sep-2002 14:42

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0685.D
Lab Smp Id: A1243-27A *Client Smp ID: 3MW19M*
Inj Date : 31-AUG-2002 17:29
Operator : DG Inst ID: s1.i
Smp Info : A1243-27A,3MW19M,S0825-BW1,DG,,A1243
Misc Info : 0,,,1,,,,,,,,25-AUG-02,22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1_8270C.m
Meth Date : 31-Aug-2002 12:45 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	*1000.000*	*Volume of sample extracted (mL)*

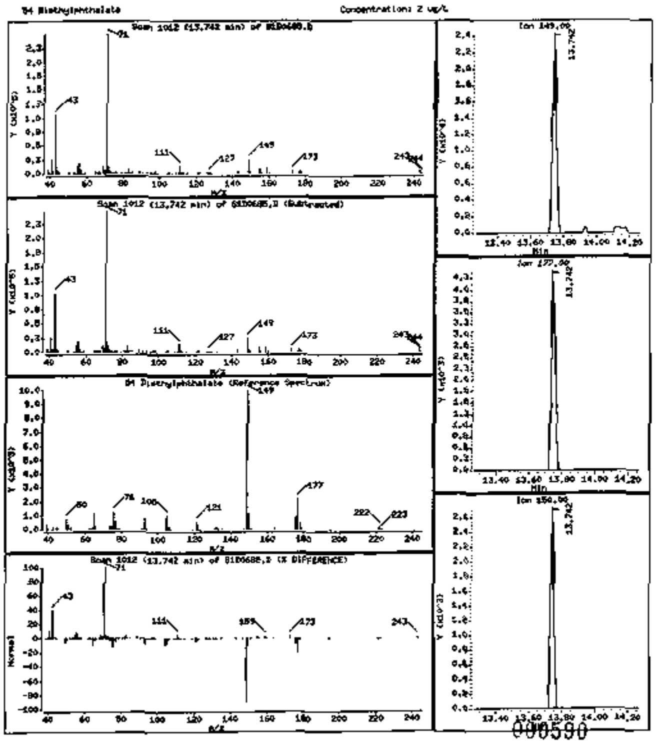
ISTD	RT	AREA	AMOUNT
* 31 Naphthalene-d8	9.271	1690716	40.000
* 48 Acenaphthene-d10	12.749	1792946	40.000
* 76 Chrysene-d12	21.023	1404970	40.000

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	QUANT LIB ENTRY	CPND #
Unknown				CAS #:			
8.365	291191	6.4435447[illegible]	7	0		0	31

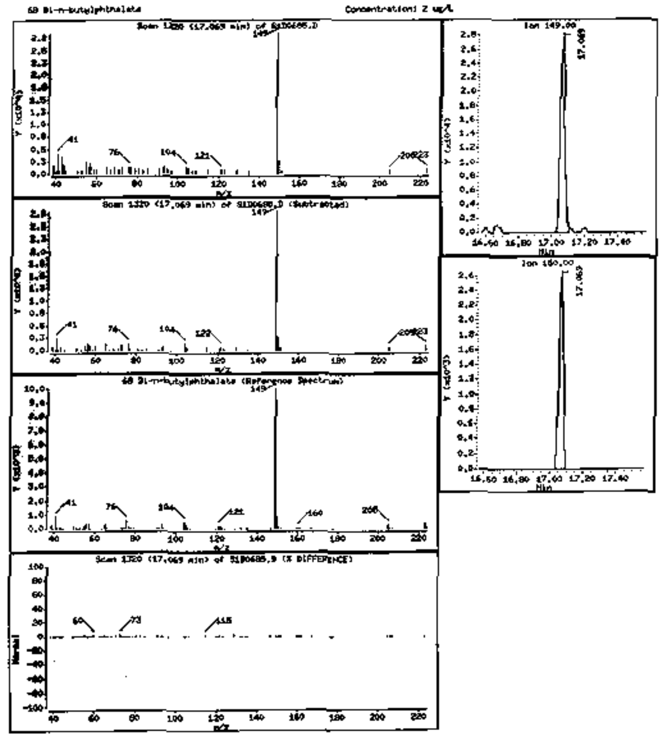
Data File: S1D0685.D
Report Date: 04-Sep-2002 14:42

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	QUANT LIB ENTRY	CPND #
Unknown				CAS #:			
6.532	186643	4.45332540	4	0		0	31
Unknown				CAS #:			
9.217	330260	5.46765184	5	0		0	31
Unknown				CAS #:			
10.186	343588	8.12991643	8	0		0	31
Unknown				CAS #:			
11.338	611091	18.0958188	18	0		0	48
Propanoic acid, 2-methyl-, 3-hydroxy-2,4				CAS #: 74367-34-3			
11.489	666030	13.1852370	13	50	NBS75K.L	34744	48
Unknown				CAS #:			
12.327	256306	8.15809118	5	0		0	48
Unknown				CAS #:			
21.341	224724	6.39825761	6	0		0	76

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0685.D
Date : 31-AUG-2002 17:29
Client ID: 3MW19M Instrument: s1.i
Sample Info: A1243-27A,3MW19M,S0825-BW1,DG,,A1243
Volume Injected (uL): 1.0 Operator: DG
Column phase: DB-5MS Column diameter: 0.25
54 Diethylphthalate Concentration: 2 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0685.D
Date : 31-AUG-2002 17:29
Client ID: 3MW19M Instrument: s1.i
Sample Info: A1243-27A,3MW19M,S0825-BW1,DG,,A1243
Volume Injected (uL): 1.0 Operator: DG
Column phase: DB-5MS Column diameter: 0.25
68 Di-n-butylphthalate Concentration: 2 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0685.D

Date : 31-AUG-2002 17:29

Client ID: 3H419H

Instrument: s1.i

Sample Info: A1243-27A,3H419H,S0825-B41.IC,,A1243

Volume Injected (uL): 2.0

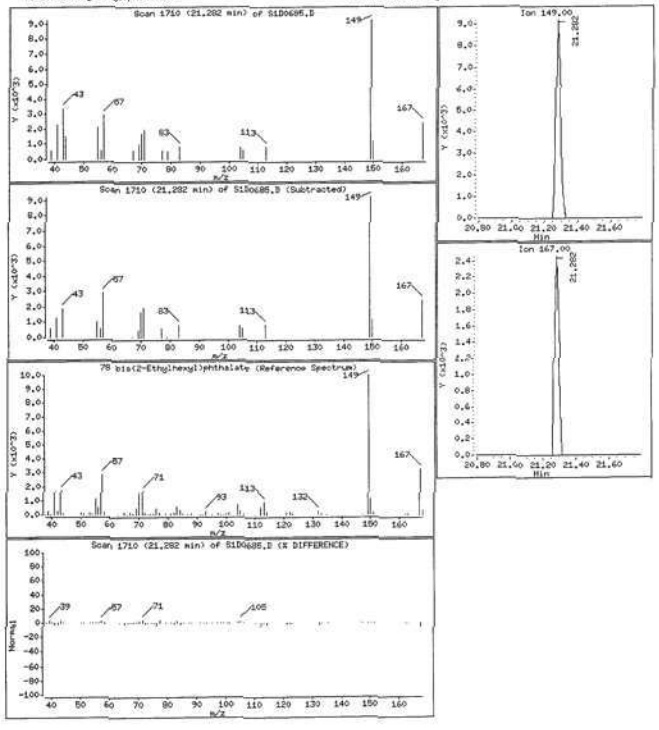
Operator: IC

Column phase: DB-5MS

Column diameter: 0.25

78 bis(2-Ethylhexyl)phthalate

Concentration: 1 ug/L



000591

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0685.D

Date : 31-AUG-2002 17:29

Client ID: 3H419H

Instrument: s1.i

Sample Info: A1243-27A,3H419H,S0825-B41.IC,,A1243

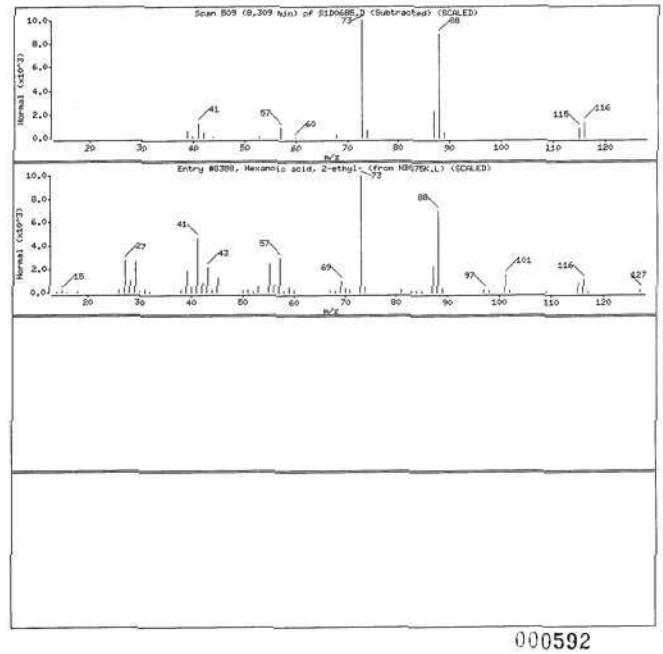
Volume Injected (uL): 1.0

Operator: IC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Hexanoic acid, 2-ethyl-	149-57-5	NBS75K.L	8388	86	C8H16O2	144



000592

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0685.D

Date : 31-AUG-2002 17:29

Client ID: 3H419H

Instrument: s1.i

Sample Info: A1243-27A,3H419H,S0825-B41.IC,,A1243

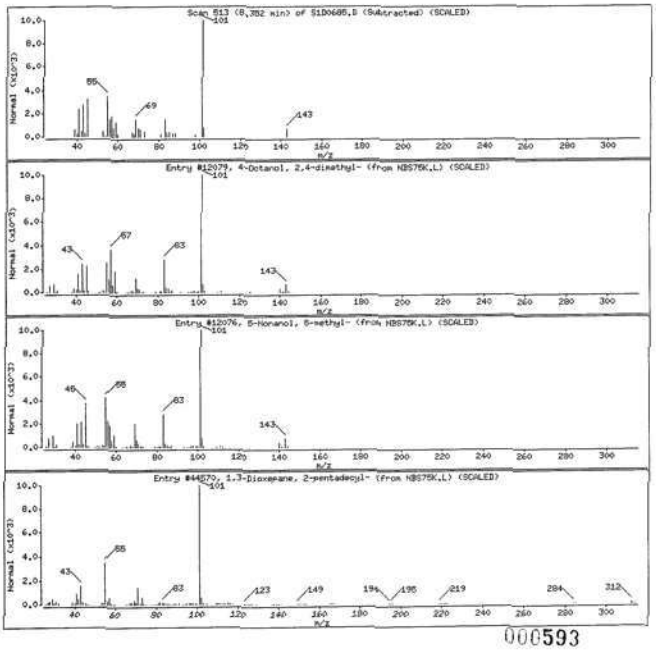
Volume Injected (uL): 1.0

Operator: IC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
4-Octanol, 2,4-dimethyl-	33933-79-8	NBS75K.L	12079	50	C10H22O	158
5-Nonanol, 5-methyl-	33933-78-7	NBS75K.L	12076	50	C10H22O	158
1,3-Dioxepane, 2-pentadecyl-	41563-29-5	NBS75K.L	44570	38	C20H40O2	312



000593

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0685.D

Date : 31-AUG-2002 17:29

Client ID: 3H419H

Instrument: s1.i

Sample Info: A1243-27A,3H419H,S0825-B41.IC,,A1243

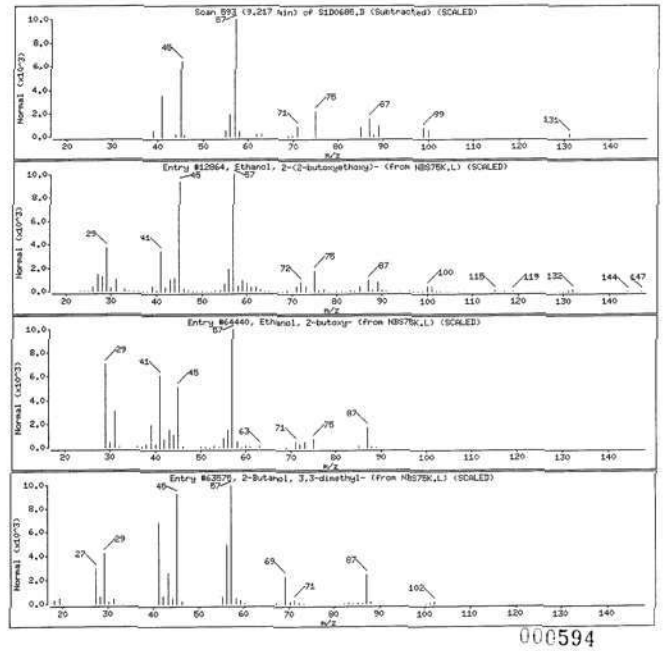
Volume Injected (uL): 1.0

Operator: IC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Ethanol, 2-(2-butoxyethoxy)-	112-34-5	NBS75K.L	12864	74	C8H18O3	162
Ethanol, 2-butoxy-	111-76-2	NBS75K.L	64440	42	C6H14O2	118
2-Butanol, 3,3-dimethyl-	464-07-3	NBS75K.L	63576	37	C6H14O	102



000594

Data File: \\AVOGADRO\USERDATA\Organic\avoa\S1.i\020831.B\S1D0685.D

Date : 31-AUG-2002 17:29

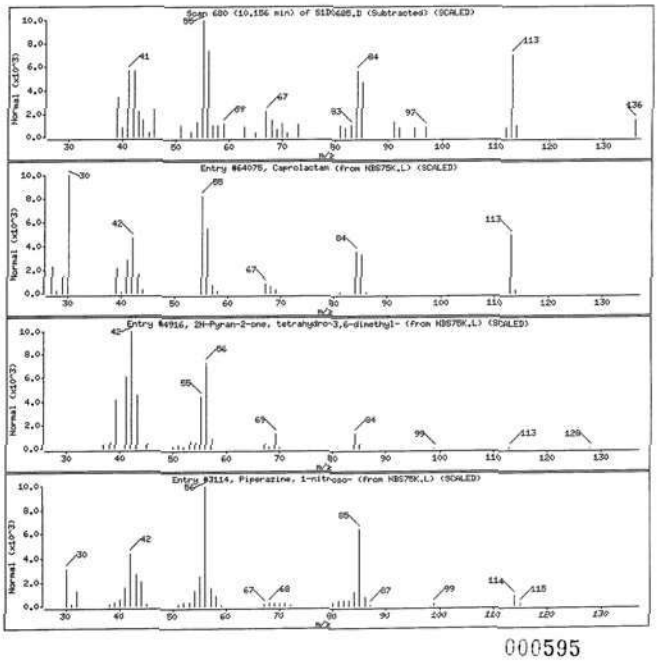
Client ID: 3H419H — Instrument: s1.i

Sample Info: A1243-27A,3H419H,S0825-BW1,DG,,A1243

Volume Injected (uL): 1.0 — Operator: DG

Column phase: DB-5MS — Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Caprolactam	105-60-2	NBS75K.L	64075	91	C6H11NO	113
2H-Pyran-2-one, tetrahydro-3,6-dimethyl-	3720-22-7	NBS75K.L	4916	43	C7H12O2	128
Piperazine, 1-nitroso-	5632-47-3	NBS75K.L	3114	38	C4H9N3O	115



000595

Data File: \\AVOGADRO\USERDATA\Organic\avoa\S1.i\020831.B\S1D0685.D

Date : 31-AUG-2002 17:29

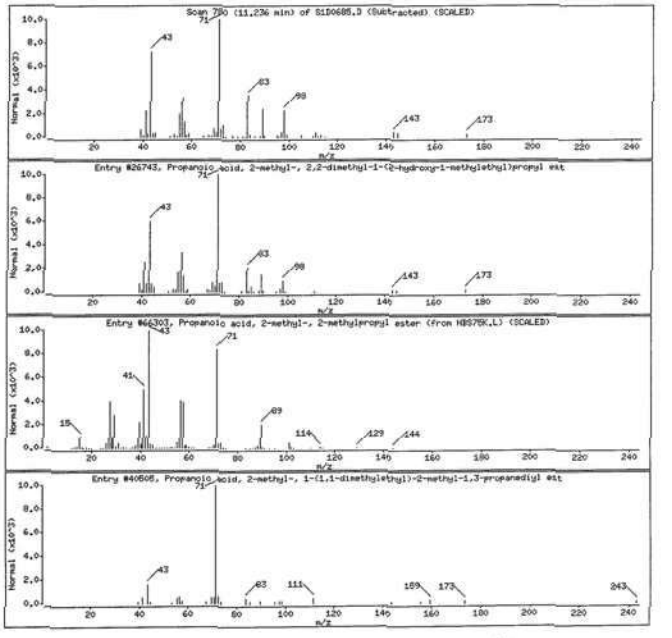
Client ID: 3H419H — Instrument: s1.i

Sample Info: A1243-27A,3H419H,S0825-BW1,DG,,A1243

Volume Injected (uL): 1.0 — Operator: DG

Column phase: DB-5MS — Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	NBS75K.L	26743	59	C12H24O3	216
Propanoic acid, 2-methyl-, 2-methylpropy	97-85-8	NBS75K.L	66303	40	C8H16O2	144
Propanoic acid, 2-methyl-, 1-(1,1-dimeth	74381-40-1	NBS75K.L	40606	37	C16H30O4	286



000596

Data File: \\AVOGADRO\USERDATA\Organic\avoa\S1.i\020831.B\S1D0685.D

Date : 31-AUG-2002 17:29

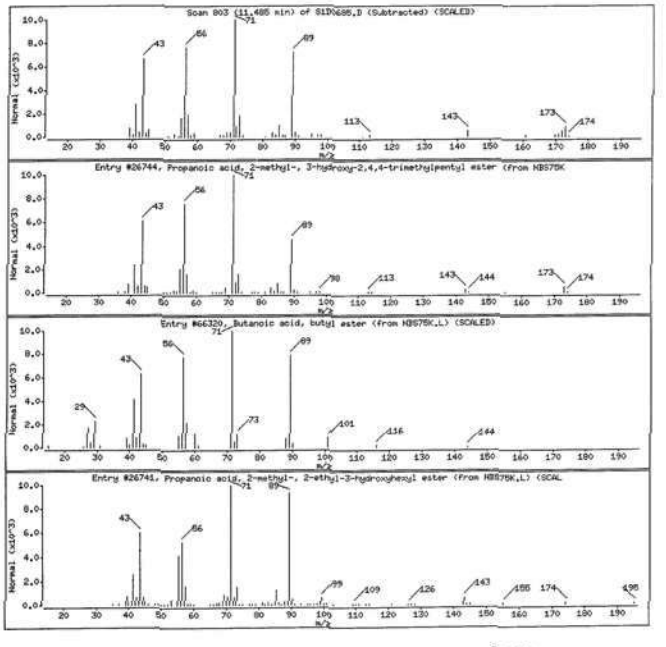
Client ID: 3H419H — Instrument: s1.i

Sample Info: A1243-27A,3H419H,S0825-BW1,DG,,A1243

Volume Injected (uL): 1.0 — Operator: DG

Column phase: DB-5MS — Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	NBS75K.L	26744	90	C12H24O3	216
Butanoic acid, butyl ester	109-21-7	NBS75K.L	66320	72	C8H16O2	144
Propanoic acid, 2-methyl-, 2-ethyl-3-hyd	74367-31-0	NBS75K.L	26741	59	C12H24O3	216



000597

Data File: \\AVOGADRO\USERDATA\Organic\avoa\S1.i\020831.B\S1D0685.D

Date : 31-AUG-2002 17:29

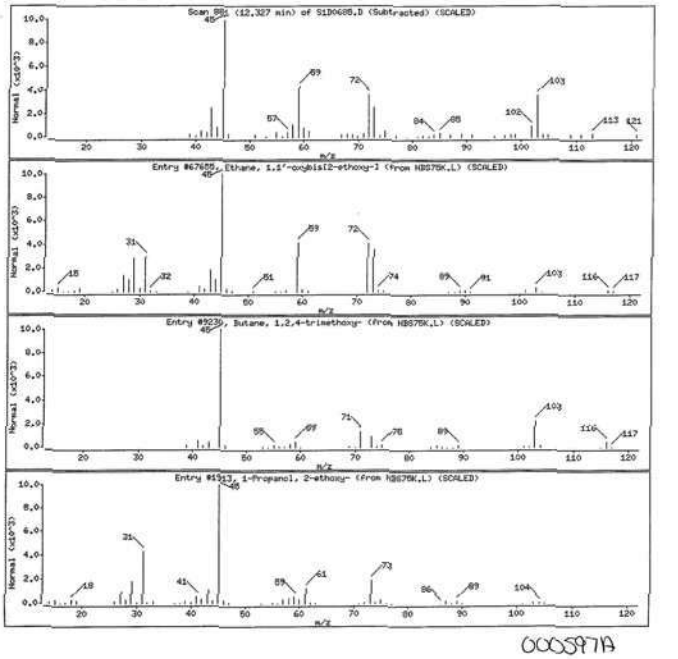
Client ID: 3H419H — Instrument: s1.i

Sample Info: A1243-27A,3H419H,S0825-BW1,DG,,A1243

Volume Injected (uL): 1.0 — Operator: DG

Column phase: DB-5MS — Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Ethane, 1,1'-oxybis[2-ethoxy-]	112-36-7	NBS75K.L	67686	89	C8H18O3	162
Butane, 1,2,4-trimethoxy-	20637-48-3	NBS75K.L	9230	43	C7H16O3	148
1-Propanol, 2-ethoxy-	19089-47-5	NBS75K.L	1913	43	C5H12O2	104



000597A

Data File: \\AVOGADRO\USERDATA\Organic\avoa\S1,1\0208S1,F\S1D0686.D

Date : 31-AUG-2002 17:29

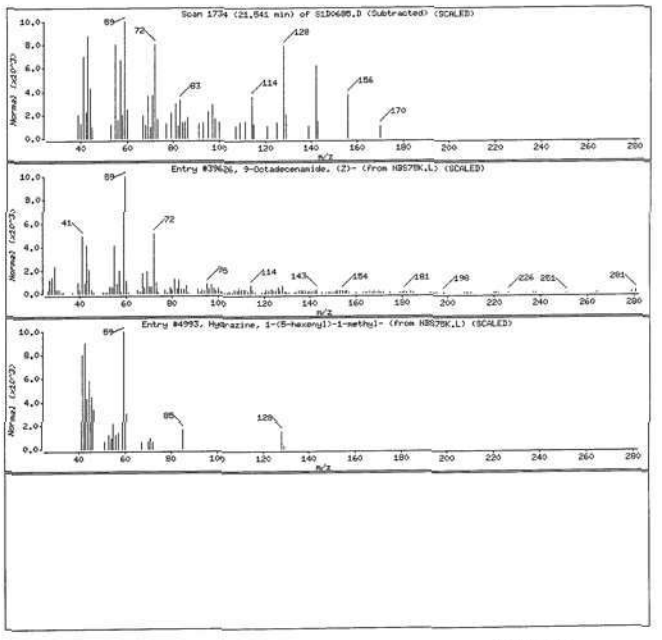
Client ID: 3M619M Instrument: s1.i

Sample Info: A1243-27A,3M619M,S0825-BH1,DC,,A1243

Volume Injected (uL): 1.0 Operator: DC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
9-Octadecenamide, (Z)-	301-02-0	NBS75K.L	37626	40	C18H35NO	281
Hydrazine, 1-(5-hexenyl)-1-methyl-	53907-78-1	NBS75K.L	4993	25	C7H16N2	128



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 3MW27

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-28E

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0686

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	*1,2-Dichlorobenzene*	*10*	*U*
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	*4-Chloro-3-Methylphenol*	*10*	*U*
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 3MW27

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-28E

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0686

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	2	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	*4-Nitroaniline*	*20*	*U*
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	2	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	*bis(2-Ethylhexyl)phthalate*	*10*	*U*
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: 3MW27

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-28E

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0686

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02

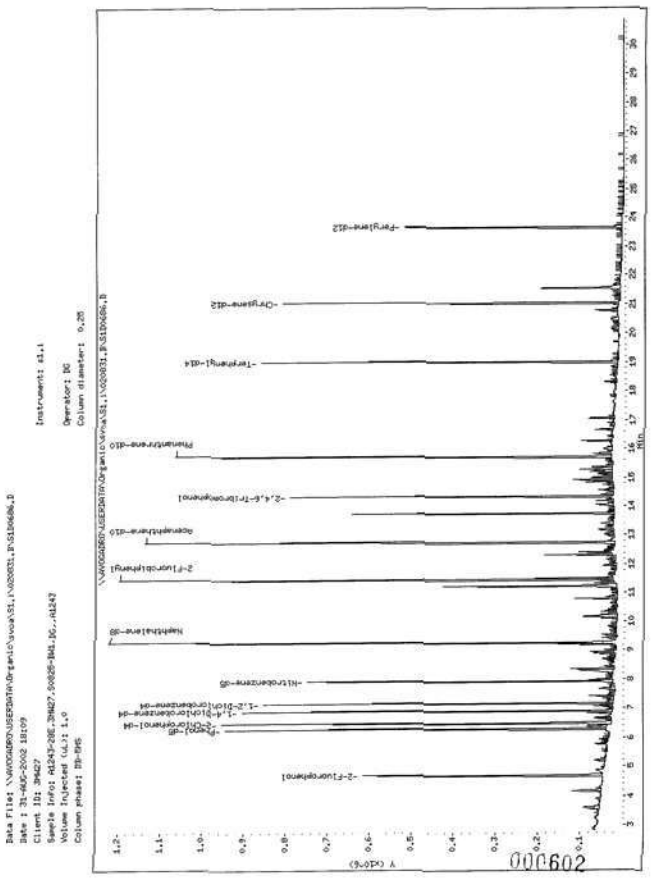
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 10 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.38	4	J
2.	UNKNOWN	8.31	6	J
3.	UNKNOWN	8.35	4	J
4.	UNKNOWN	9.21	5	J
5.	UNKNOWN	10.16	7	J
6.	*UNKNOWN*	*11.24*	*18*	*J*
7. 109-21-7	BUTANOIC ACID, BUTYL ESTER	11.49	13	NJ
8.	UNKNOWN	12.33	6	J
9.	UNKNOWN	14.92	4	J
10.	UNKNOWN	21.54	14	J
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC



000602

Data File: S1D0686.D
Report Date: 04-Sep-2002 14:42

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0686.D
Lab Smp Id: A1243-28E — Client Smp ID: 3MW27
Inj Date : 31-AUG-2002 18:09
Operator : DG — Inst ID: s1.i
Smp Info : A1243-28E,3MW27,S0825-BW1,DG,,A1243
Misc Info : 0,,,1,,,,,,,,25-AUG-02,22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1_8270C.m
Meth Date : 31-Aug-2002 12:45 mtl — Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 — Cal File: S1D0561.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE — Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
$ 3 2-Fluorophenol	112	4.691	4.691	(0.680)	370902	42.1743	42
$ 5 Phenol-d5	99	6.301	6.300	(0.914)	591433	55.1022	55
$ 9 2-Chlorophenol-d4	132	6.496	6.495	(0.942)	516953	59.7587	60
* 12 1,4-Dichlorobenzene-d4	152	6.895	6.905	(1.000)	226662	40.0000	
$ 14 1,2-Dichlorobenzene-d4	152	7.185	7.185	(1.039)	206714	44.9559	45
$ 22 Nitrobenzene-d5	82	7.921	7.931	(0.854)	401196	43.5044	44
* 31 Naphthalene-d8	136	9.271	9.282	(1.000)	837970	40.0000	
$ 41 2-Fluorobiphenyl	172	11.453	11.444	(0.898)	595103	44.9650	45
* 48 Acenaphthene-d10	164	12.750	12.760	(1.000)	404972	40.0000	
54 Diethylphthalate	149	13.743	13.764	(1.078)	36470	2.42383	2(a)
$ 60 2,4,6-Tribromophenol	330	14.357	14.337	(0.912)	159753	72.7831	74
* 64 Phenanthrene-d10	188	15.726	15.719	(1.000)	636110	40.0000	
68 Di-n-butylphthalate	149	17.079	17.069	(1.086)	48015	1.94876	2(a)
$ 71 Terphenyl-d14	244	19.004	19.003	(0.904)	435032	38.3053	38

000603

Data File: S1D0686.D
Report Date: 04-Sep-2002 14:42

Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
* 76 Chrysene-d12	240	21.024	21.034	(1.000)	453524	40.0000	
* 83 Perylene-d12	264	23.670	23.669	(1.000)	291347	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

SMS 4/4/02

KL

000604

Data File: S1D0686.D
Report Date: 04-Sep-2002 14:42

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0686.D
Lab Smp Id: A1243-28E — Client Smp ID: 3MW27
Inj Date : 31-AUG-2002 18:09
Operator : DG — Inst ID: s1.i
Smp Info : A1243-28E,3MW27,S0825-BW1,DG,,A1243
Misc Info : 0,,,1,,,,,,,,25-AUG-02,22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1_8270C.m
Meth Date : 31-Aug-2002 12:45 mtl — Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 — Cal File: S1D0561.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE — Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

ISTD	RT	AREA	AMOUNT
* 12 1,4-Dichlorobenzene-d4	6.895	1352600	40.000
* 31 Naphthalene-d8	9.272	1857310	40.000
* 48 Acenaphthene-d10	12.750	1894870	40.000
* 64 Phenanthrene-d10	15.720	1810585	40.000
* 76 Chrysene-d12	21.024	1471515	40.000

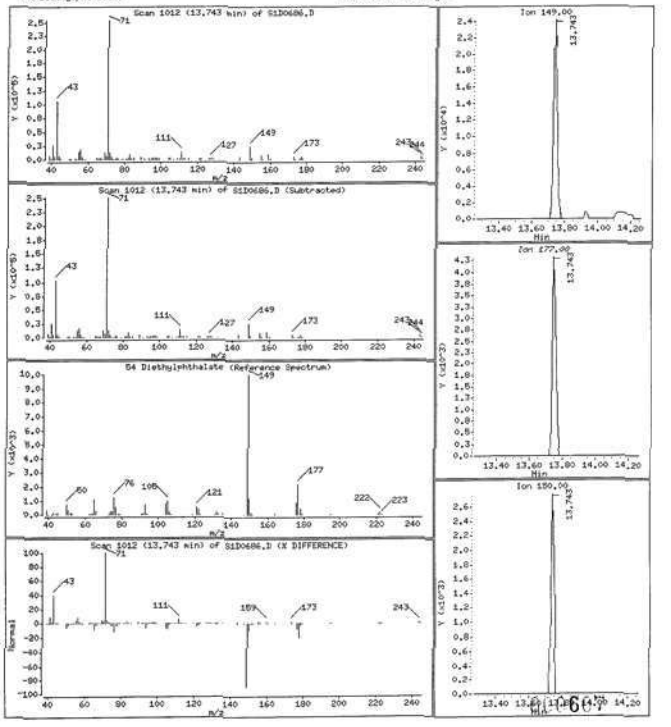
RT	AREA	CONCENTRATIONS ON-COL(ng)	CONCENTRATIONS FINAL(ug/L)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	QUANT CPND #

000605

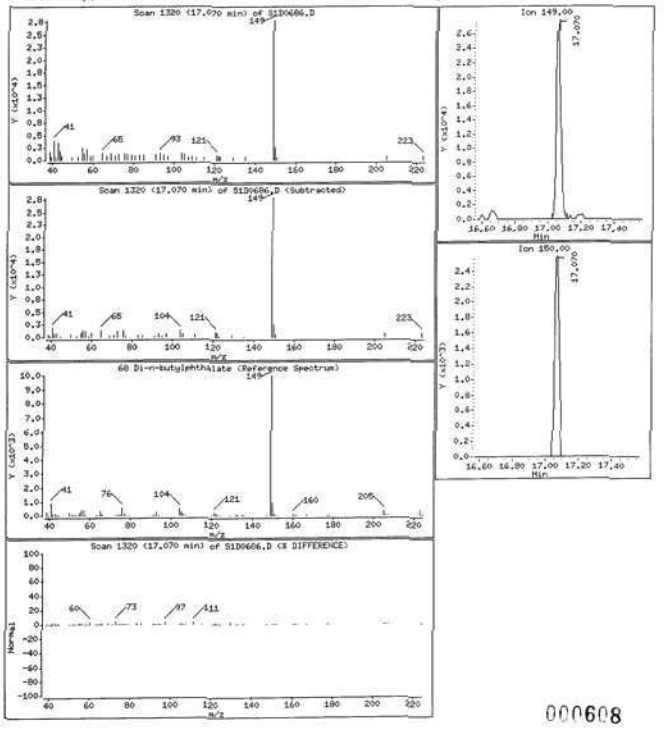
Data File: S1D0686.D
Report Date: 04-Sep-2002 14:42

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown			CAS #:				
6.377	152097	6.49791513	6	0		0	12
Unknown			CAS #:				
8.310	290620	6.25894433	6	0		0	31
Unknown			CAS #:				
9.353	187199	4.03161562	4	0		0	31
Unknown			CAS #:				
9.207	222230	4.78686154	5	0		0	31
Unknown			CAS #:				
10.157	312733	6.73518153	7	0		0	31
Unknown			CAS #:				
11.237	834907	17.6245758	18	0		0	48
Butanoic acid, butyl ester			CAS #: 109-21-7				
11.466	620484	13.0981862	13	87	NBS75K.L	66336	48
Unknown			CAS #:				
12.328	275735	5.82066316	6	0		0	48
Unknown			CAS #:				
14.921	201420	4.44983231	4	0		0	64
Unknown			CAS #:				
21.542	533300	14.2247955	14	0		0	76

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0686.D
Date : 31-AUG-2002 18:09
Client ID: 39427 Instrument: s1.i
Sample Info: A1243-28E,39427,S0025-BH1,DG,,A1243
Volume Injected (uL): 1.0 Operator: DG
Column phase: DB-5MS Column diameter: 0.25
54 Diethylphthalate Concentration: 2 ug/L

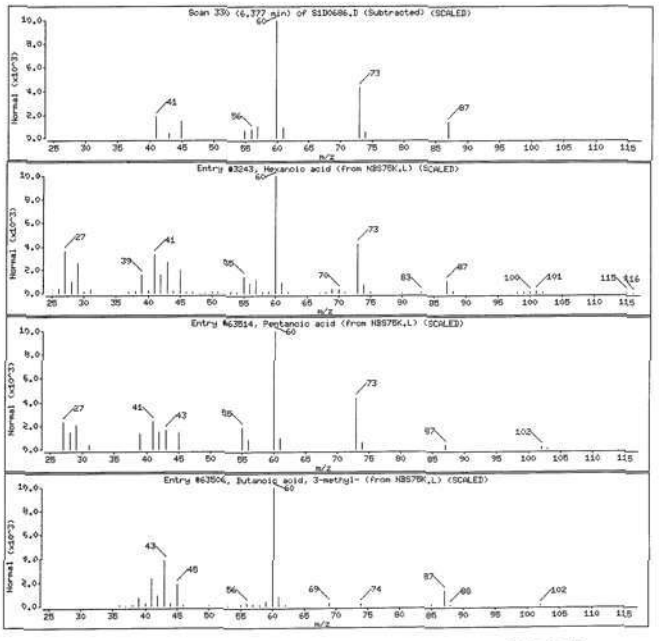


Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0686.D
Date : 31-AUG-2002 18:09
Client ID: 39427 Instrument: s1.i
Sample Info: A1243-28E,39427,S0025-BH1,DG,,A1243
Volume Injected (uL): 1.0 Operator: DG
Column phase: DB-5MS Column diameter: 0.25
68 Di-n-butylphthalate Concentration: 2 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0686.D
Date : 31-AUG-2002 18:09
Client ID: 39427 Instrument: s1.i
Sample Info: A1243-28E,39427,S0025-BH1,DG,,A1243
Volume Injected (uL): 1.0 Operator: DG
Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Hexanoic acid	142-62-1	NBS75K.L	3243	83	C6H12O2	116
Pentanoic acid	109-52-4	NBS75K.L	63514	72	C5H10O2	102
Butanoic acid, 3-methyl-	503-74-2	NBS75K.L	63506	40	C5H10O2	102



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0686.D

Date : 31-AUG-2002 18:09

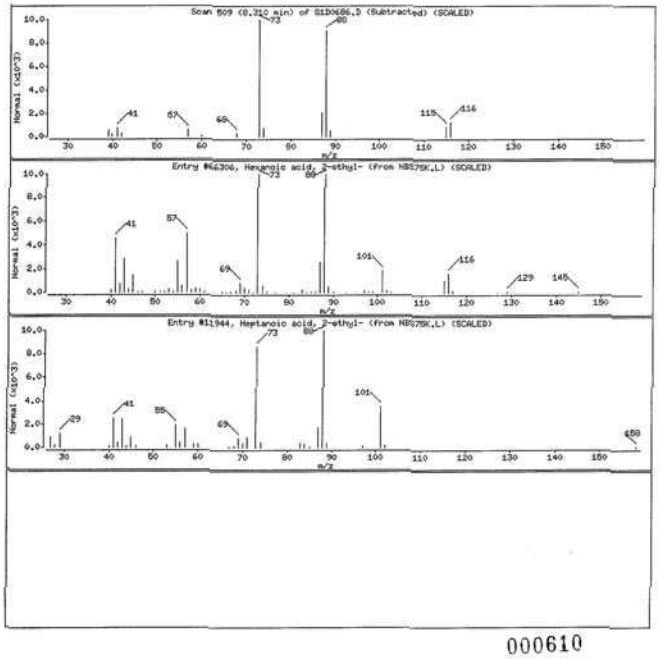
Client ID: 3M427 Instrument: s1.i

Sample Info: A1243-28E,3M427,S0825-3W1,DG,,A1243

Volume Injected (uL): 1.0 Operator: DG

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Hexanoic acid, 2-ethyl-	149-57-5	NBS75K.L	66306	64	C8H16O2	144
Heptanoic acid, 2-ethyl-	3274-29-1	NBS75K.L	11944	40	C9H18O2	158



000610

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0686.D

Date : 31-AUG-2002 18:09

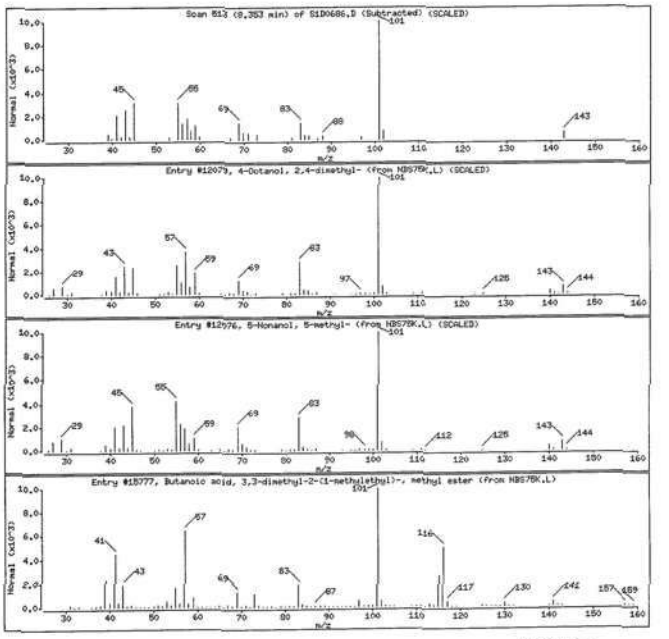
Client ID: 3M427 Instrument: s1.i

Sample Info: A1243-28E,3M427,S0825-3W1,DG,,A1243

Volume Injected (uL): 1.0 Operator: DG

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
4-Octanol, 2,4-dimethyl-	33933-79-8	NBS75K.L	12079	46	C10H22O	158
5-Nonanol, 5-methyl-	33933-78-7	NBS75K.L	12076	40	C10H22O	158
Butanoic acid, 3,3-dimethyl-2-(1-methyle	54461-01-7	NBS75K.L	15777	36	C10H20O2	172



000611

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0686.D

Date : 31-AUG-2002 18:09

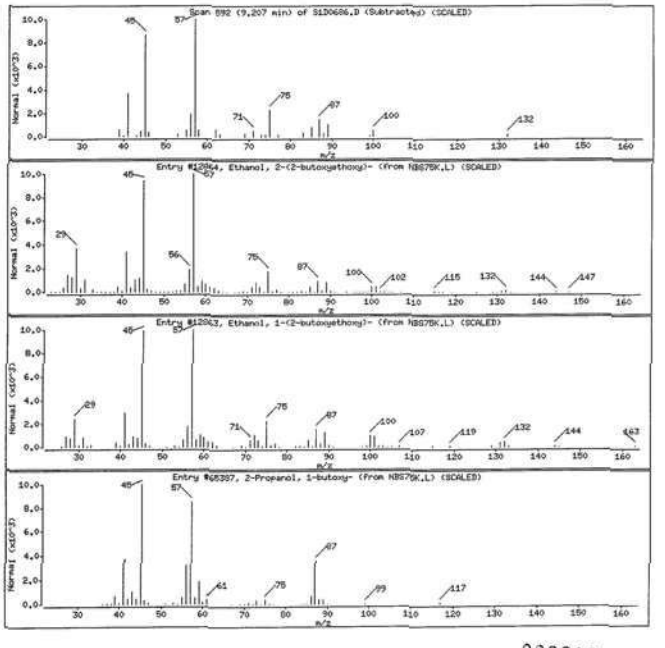
Client ID: 3M427 Instrument: s1.i

Sample Info: A1243-28E,3M427,S0825-3W1,DG,,A1243

Volume Injected (uL): 1.0 Operator: DG

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Ethanol, 2-(2-butoxyethoxy)-	112-34-5	NBS75K.L	12864	83	C8H18O3	162
Ethanol, 1-(2-butoxyethoxy)-	54446-78-5	NBS75K.L	12863	56	C8H18O3	162
2-Propanol, 1-butoxy-	5131-66-8	NBS75K.L	65387	40	C7H16O2	132



000612

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0686.D

Date : 31-AUG-2002 18:09

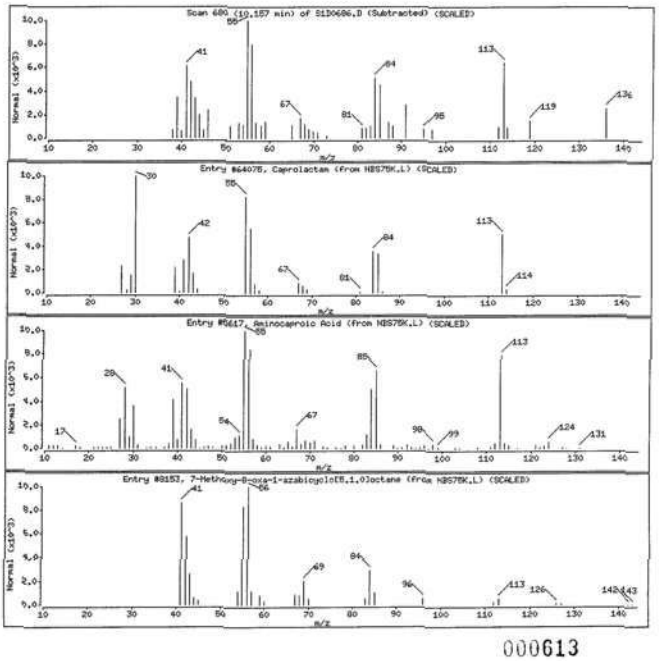
Client ID: 3M427 Instrument: s1.i

Sample Info: A1243-28E,3M427,S0825-3W1,DG,,A1243

Volume Injected (uL): 1.0 Operator: DG

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Caprolactam	105-60-2	NBS75K.L	64075	81	C6H11NO	113
Aminocaproic Acid	60-32-2	NBS75K.L	9617	64	C6H13NO2	131
7-Methoxy-8-oxa-1-azabicyclo[5.1.0]octan	0-00-0	NBS75K.L	8153	47	C7H13NO2	143



000613

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020631.B\S1D0686.D

Date : 31-AUG-2002 18:09

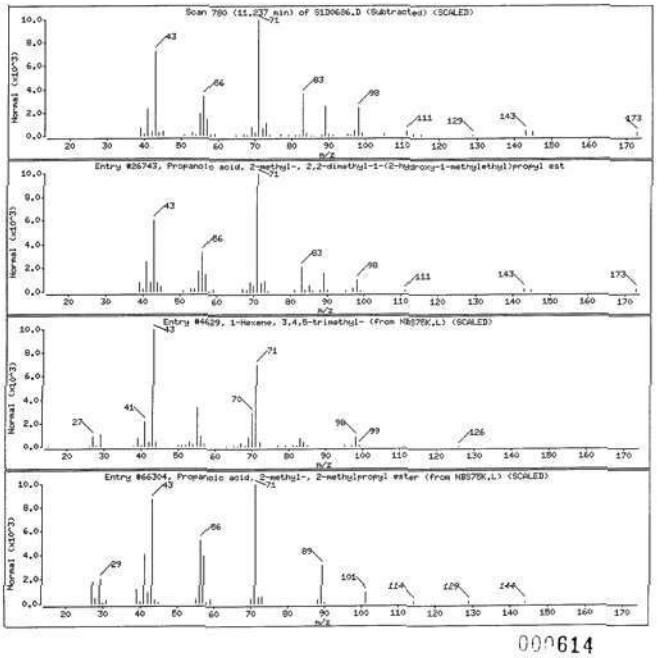
Client ID: 39427 Instrument: s1.i

Sample Info: A1243-28E,39427,S0825-BW1,DG,,A1243

Volume Injected (uL): 1.0 Operator: DG

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	NBS75K.L	26743	59	C12H2403	216
1-Hexene, 3,4,5-trimethyl-	56728-10-0	NBS75K.L	4629	47	C9H18	126
Propanoic acid, 2-methyl-, 2-methylpropyl	*97-85-8*	*NBS75K.L*	*66304*	*40*	*C8H1602*	*144*



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020631.B\S1D0686.D

Date : 31-AUG-2002 18:09

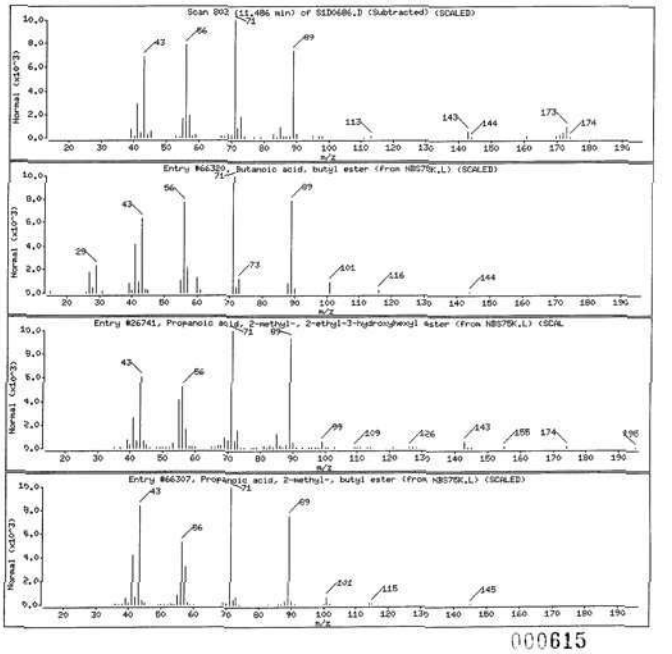
Client ID: 39427 Instrument: s1.i

Sample Info: A1243-28E,39427,S0825-BW1,DG,,A1243

Volume Injected (uL): 1.0 Operator: DG

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butanoic acid, butyl ester	109-21-7	NBS75K.L	66320	87	C8H1602	144
Propanoic acid, 2-methyl-, 2-ethyl-3-hyd	74367-31-0	NBS75K.L	26741	74	C12H2403	216
Propanoic acid, 2-methyl-, butyl ester	97-87-0	NBS75K.L	66307	72	C8H1602	144



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020631.B\S1D0686.D

Date : 31-AUG-2002 18:09

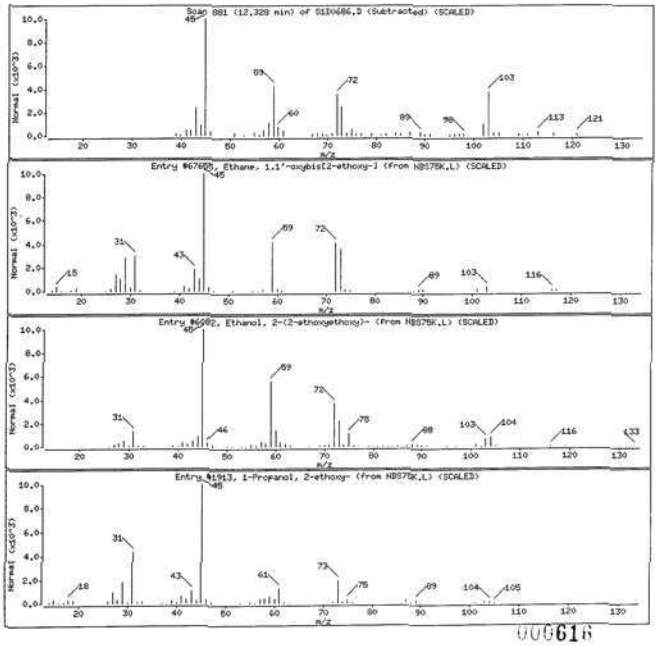
Client ID: 39427 Instrument: s1.i

Sample Info: A1243-28E,39427,S0825-BW1,DG,,A1243

Volume Injected (uL): 1.0 Operator: DG

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Ethane, 1,1'-oxybis[2-ethoxy-]	112-36-7	NBS75K.L	67655	59	C8H1803	162
Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	NBS75K.L	6082	50	C6H1403	134
1-Propanol, 2-ethoxy-	19089-47-5	NBS75K.L	1913	43	C5H1202	104



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020631.B\S1D0686.D

Date : 31-AUG-2002 18:09

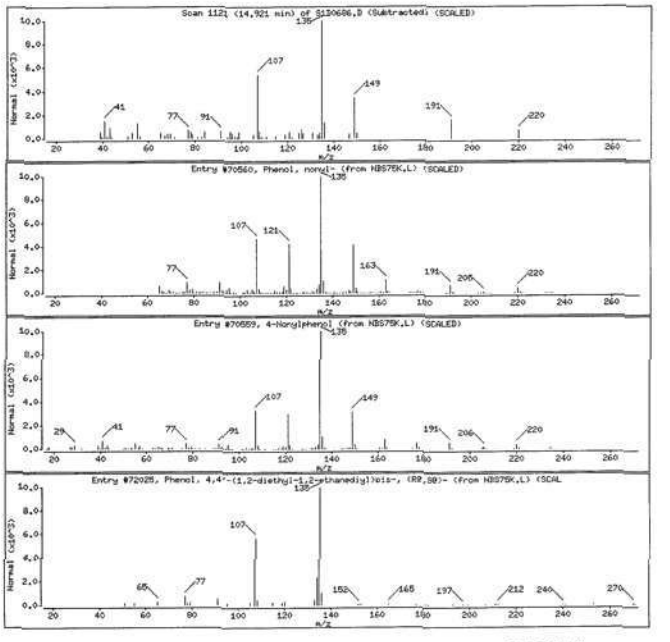
Client ID: 39427 Instrument: s1.i

Sample Info: A1243-28E,39427,S0825-BW1,DG,,A1243

Volume Injected (uL): 1.0 Operator: DG

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Phenol, nonyl-	*25154-52-3*	NBS75K.L	70560	78	C15H240	220
4-Nonylphenol	104-40-5	NBS75K.L	70659	74	C15H240	220
Phenol, 4,4'-(1,2-diethyl-1,2-ethanediyl	84-16-2	NBS75K.L	72025	53	C18H2202	270



Data File: \\AVOGADRO\USERDATA\Organic\avoa\S1_1\020831.B\S1D0686.D

Date : 31-AUG-2002 18:09

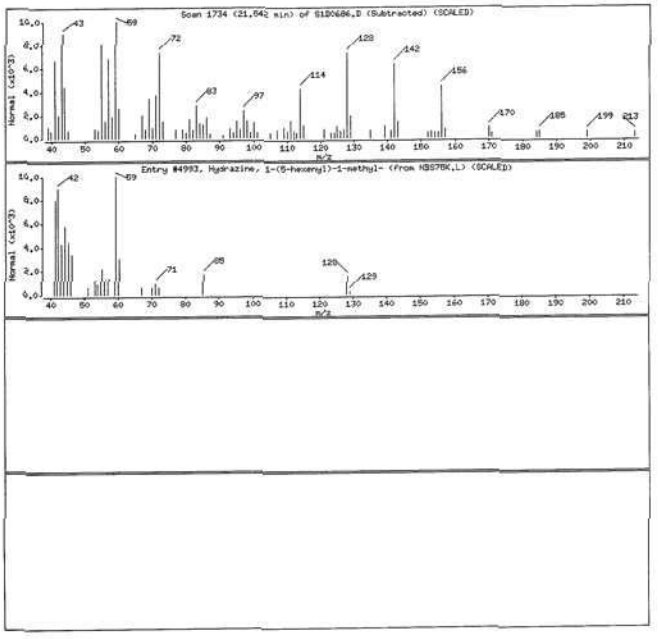
Client ID: 3M427 Instrument: s1.i

Sample Info: A1243-28E,3M427,S0825-B41,DG,,A1243

Volume Injected (uL): 1.0 Operator: DG

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Hydrazine, 1-(5-hexenyl)-1-methyl-	53907-70-1	NIST98K.L	4993	27	C7H16N2	128



000618

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 3MW6

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-22A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0684

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	*Hexachloroethane*	*10*	*U*
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	*Dimethylphthalate*	*10*	*U*
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

000619

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 3MW6

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-22A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0684

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	*4-Chlorophenyl-phenylether*	*10*	*U*
86-73-7	Fluorene	10	U
100-01-6	4-Nitroanilline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	*bis(2-Ethylhexyl)phthalate*	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

000620

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: 3MW6

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-22A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0684

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

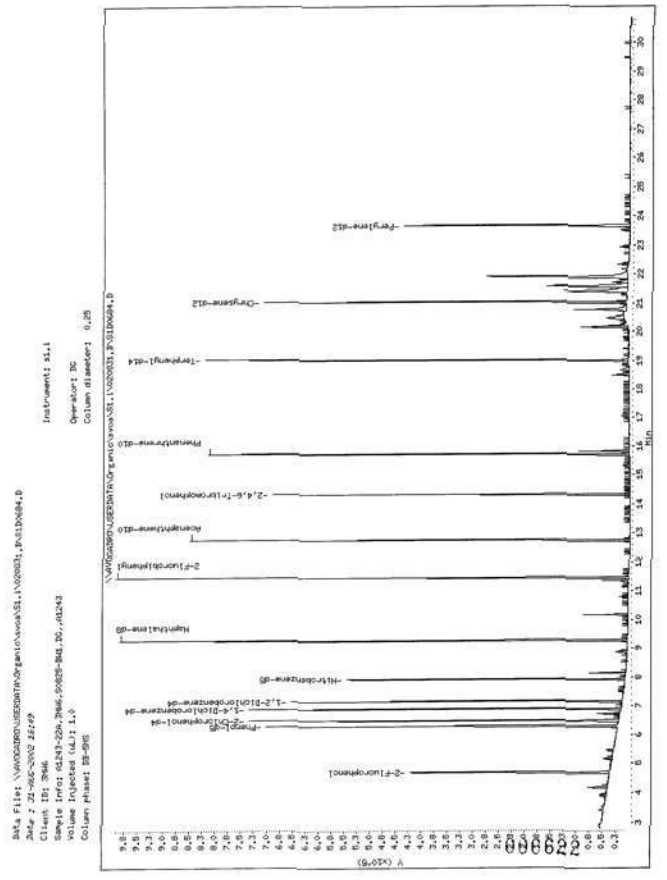
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 7 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 104-66-5	BENZENE, 1,1'-[1,2-ETHANEDIY	15.82	4	NJ
2.	UNKNOWN	20.14	7	J
3.	UNKNOWN	20.48	6	J
4.	UNKNOWN	20.78	9	J
5.	UNKNOWN	21.39	18	J
6.	UNKNOWN	21.56	20	J
7.	UNKNOWN	21.90	28	J
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

000621



000622

Data File: S1D0684.D
Report Date: 04-Sep-2002 14:42

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0684.D
Lab Smp Id: A1243-22A Client Smp ID: 3MW6
Inj Date : 31-AUG-2002 16:49
Operator : DG Inst ID: s1.i
Smp Info : A1243-22A,3MW6,S0825-BW1,DG,,A1243
Misc Info : 0,,,1,,,,,,,25-AUG-02,22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1_8270C.m
Meth Date : 31-Aug-2002 12:45 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
$ 3 2-Fluorophenol	112	4.691	4.691	(0.680)	281065	40.2576	40
$ 5 Phenol-d5	99	6.291	6.300	(0.912)	454024	53.5158	54
$ 9 2-Chlorophenol-d4	132	6.486	6.495	(0.940)	387126	56.3691	56
* 13 1,4-Dichlorobenzene-d4	152	6.896	6.905	(1.000)	173948	40.0000	
$ 14 1,2-Dichlorobenzene-d4	152	7.166	7.165	(1.039)	153714	42.1075	42
$ 22 Nitrobenzene-d5	82	7.932	7.931	(0.894)	307558	41.2093	41
* 31 Naphthalene-d8	136	9.272	9.282	(1.000)	676166	40.0000	
$ 41 2-Fluorobiphenyl	172	11.454	11.464	(0.898)	474295	44.1894	44
* 48 Acenaphthene-d10	164	12.750	12.760	(1.000)	327695	40.0000	
$ 60 2,4,6-Tribromophenol	330	14.337	14.337	(0.912)	133619	69.9376	70
* 64 Phenanthrene-d10	188	15.710	15.719	(1.000)	519301	40.0000	
$ 71 Terphenyl-d14	244	19.004	19.003	(0.904)	417402	44.7503	45
* 76 Chrysene-d12	240	21.034	21.034	(1.000)	371454	40.0000	
* 83 Perylene-d12	264	23.660	23.669	(1.000)	326616	40.0000	

KC SAMA 9/4/02

000623

Data File: S1D0684.D
Report Date: 04-Sep-2002 14:42

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0684.D
Lab Smp Id: A1243-22A Client Smp ID: 3MW6
Inj Date : 31-AUG-2002 16:49
Operator : DG Inst ID: s1.i
Smp Info : A1243-22A,3MW6,S0825-BW1,DG,,A1243
Misc Info : 0,,,1,,,,,,,25-AUG-02,22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1_8270C.m
Meth Date : 31-Aug-2002 12:45 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

ISTD	RT	AREA	AMOUNT
* 64 Phenanthrene-d10	15.710	1421848	40.000
* 76 Chrysene-d12	21.024	1240486	40.000

RT	AREA	CONCENTRATIONS ON-COL(ng)	CONCENTRATIONS FINAL(ug/L)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	CPND #
Benzene, 1,1'-[1,2-ethanediylbis(oxy)]bi			CAS #: 104-66-5				
19.818	156157	4.39307155	4	97	NBS75K.L	26396	64
Unknown			CAS #:				
20.139	228623	7.37204613	7	0		0	76

000624

Data File: S1D0684.D
Report Date: 04-Sep-2002 14:42

RT	AREA	CONCENTRATIONS ON-COL(ng)	CONCENTRATIONS FINAL(ug/L)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	CPND #
Unknown			CAS #:				
20.484	173513	5.59500067	6	0		0	76
Unknown			CAS #:				
20.776	276154	8.90470348	9	0		0	76
Unknown			CAS #:				
21.392	545477	17.5955875	18	0		0	76
Unknown			CAS #:				
21.564	630985	20.3463804	20	0		0	76
Unknown			CAS #:				
21.899	883294	28.4821917	28	0		0	76

000625

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.1\020831.B\S1D0684.D

Date : 31-AUG-2002 16:49

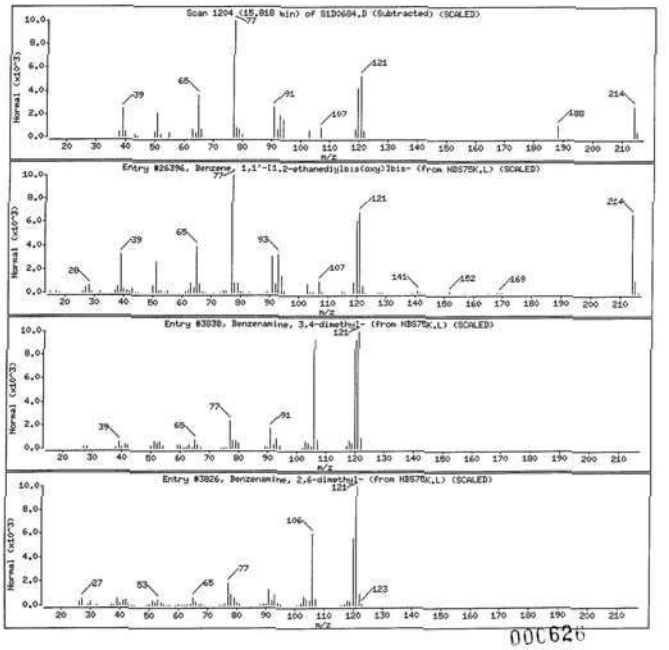
Client ID: 3946 Instrument: s1.i

Sample Info: A1243-22A,3946,80825-3W1,DG,,A1243

Volume Injected (uL): 1.0 Operator: DG

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,1'-[1,2-ethanediylbis(oxy)]bi	104-66-5	NBS75K.L	26396	97	C14H14O2	214
Benzenamine, 3,4-dimethyl-	95-64-7	NBS75K.L	3838	37	C8H11N	121
Benzenamine, 2,6-dimethyl-	87-62-7	NBS75K.L	3826	36	C8H11N	121



000626

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.1\020831.B\S1D0684.D

Date : 31-AUG-2002 16:49

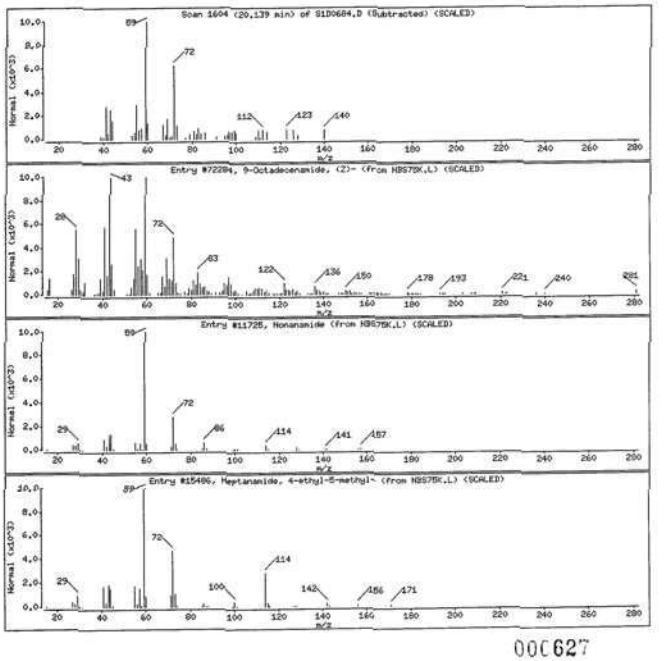
Client ID: 3946 Instrument: s1.i

Sample Info: A1243-22A,3946,80825-3W1,DG,,A1243

Volume Injected (uL): 1.0 Operator: DG

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
9-Octadecenamide, (Z)-	301-02-0	NBS75K.L	72284	50	C18H35NO	281
Nonanamide	1120-07-6	NBS75K.L	11725	50	C9H19NO	157
Heptanamide, 4-ethyl-5-methyl-	54709-40-1	NBS75K.L	15406	50	C10H21NO	171



000627

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.1\020831.B\S1D0684.D

Date : 31-AUG-2002 16:49

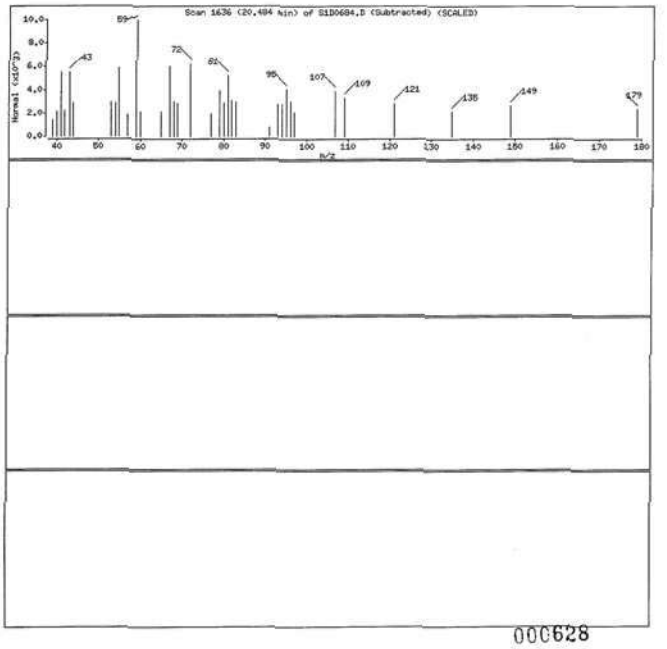
Client ID: 3946 Instrument: s1.i

Sample Info: A1243-22A,3946,80825-3W1,DG,,A1243

Volume Injected (uL): 1.0 Operator: DG

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Unknown			0	0		0



000628

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.1\020831.B\S1D0684.D

Date : 31-AUG-2002 16:49

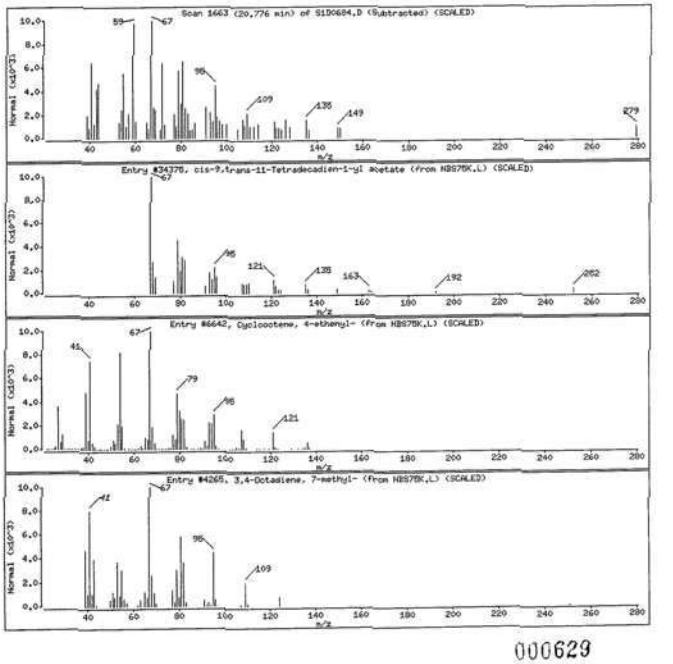
Client ID: 3946 Instrument: s1.i

Sample Info: A1243-22A,3946,80825-3W1,DG,,A1243

Volume Injected (uL): 1.0 Operator: DG

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
cis-9,trans-11-Tetradecadien-1-yl acetat	30562-09-6	NBS75K.L	34375	49	C16H28O2	252
Cyclooctene, 4-ethenyl-	1124-45-4	NBS75K.L	6642	38	C10H16	136
3,4-Octadiene, 7-methyl-	37050-05-8	NBS75K.L	4265	30	C9H16	124



000629

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0684.D

Date : 31-AUG-2002 16:49

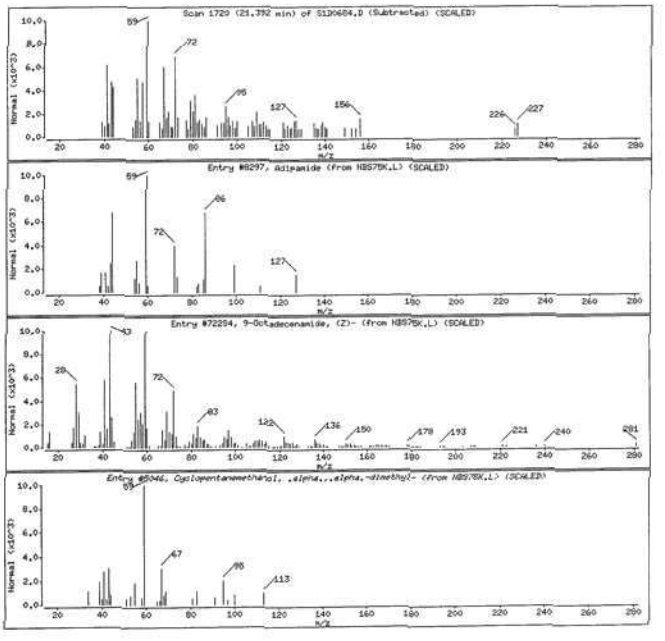
Client ID: 3M46 Instrument: s1.i

Sample Info: A1243-22A,3M46,S0825-BW1,DC,,A1243

Volume Injected (uL): 1.0 Operator: DC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Adipamide	628-94-4	NBS75K.L	8297	37	C6H12N2O2	144
9-Octadecenamide, (Z)-	301-02-0	NBS75K.L	72294	32	C18H35NO	281
Cyclopentanemethanol, .alpha...alpha.-di	1462-06-2	NBS75K.L	5046	27	C8H16O	128



000630

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0684.D

Date : 31-AUG-2002 16:49

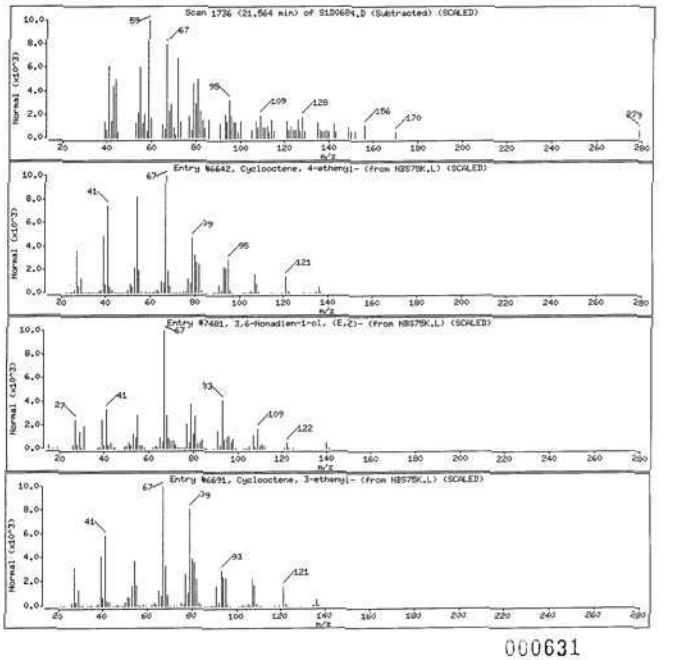
Client ID: 3M46 Instrument: s1.i

Sample Info: A1243-22A,3M46,S0825-BW1,DC,,A1243

Volume Injected (uL): 1.0 Operator: DC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclooctene, 4-ethenyl-	1124-45-4	NBS75K.L	6642	41	C10H16	136
3,6-Nonadien-1-ol, (E,Z)-	56805-23-3	NBS75K.L	7481	38	C9H16O	140
Cyclooctene, 3-ethenyl-	2213-60-7	NBS75K.L	6691	30	C10H16	136



000631

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0684.D

Date : 31-AUG-2002 16:49

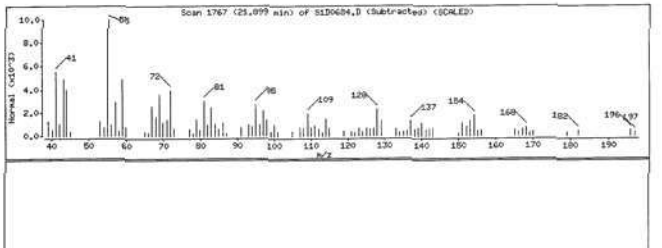
Client ID: 3M46 Instrument: s1.i

Sample Info: A1243-22A,3M46,S0825-BW1,DC,,A1243

Volume Injected (uL): 1.0 Operator: DC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Unknown			0	0		0



000632

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MMW36

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-20E

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0683

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

000633

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EMW36

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-20E

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0683

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	*Fluorene*	*10*	*U*
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-02-9	*Chrysene*	*10*	*U*
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

000634

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EMW36

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-20E

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0683

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

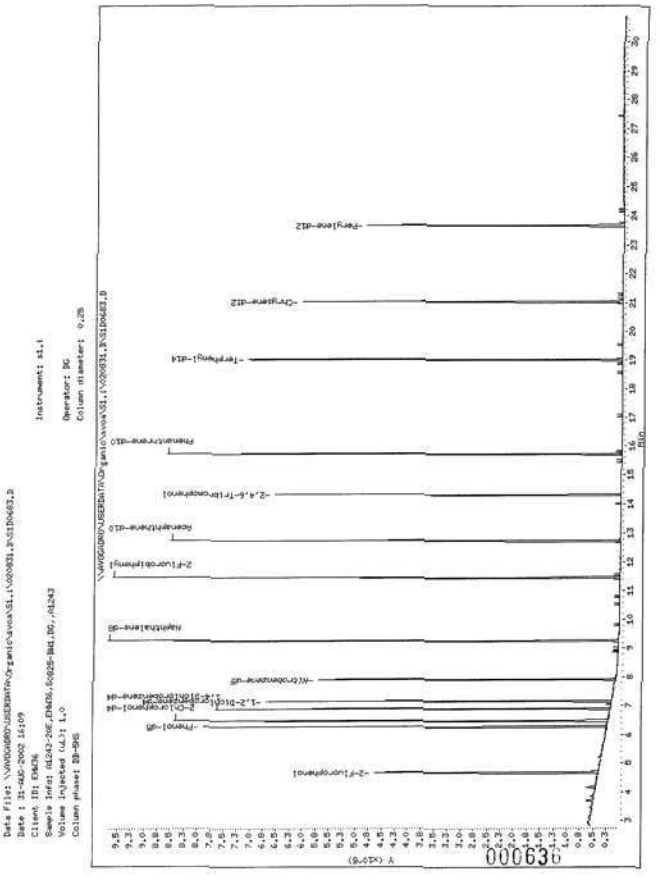
Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

000635



000636

Data File: S1D0683.D
Report Date: 04-Sep-2002 14:42

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0683.D
Lab Smp Id: A1243-20E Client Smp ID: EMW36
Inj Date : 31-AUG-2002 16:09
Operator : DG Inst ID: s1.i
Smp Info : A1243-20E,EMW36,S0825-BW1,DG,,A1243
Misc Info : 0,,,1,,,,,,,,25-AUG-02,22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1_8270C.m
Meth Date : 31-Aug-2002 12:45 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
$	3 2-Fluorophenol	112	6.683	6.691	(0.879)	255257	41.6833	42
$	5 Phenol-d5	99	6.293	6.302	(0.912)	463336	54.0271	54
$	9 2-Chlorophenol-d4	132	6.487	6.495	(0.940)	412444	58.9088	59
*	12 1,4-Dichlorobenzene-d4	152	6.887	6.905	(1.000)	183448	40.0000	
$	14 1,2-Dichlorobenzene-d4	152	7.147	7.145	(1.039)	160039	45.1531	45
$	22 Nitrobenzene-d5	82	7.913	7.921	(0.853)	319712	42.3602	42
*	31 Naphthalene-d8	136	9.274	9.282	(1.000)	685815	40.0000	
$	41 2-Fluorobiphenyl	172	11.454	11.464	(0.899)	493319	45.7952	46
*	48 Acenaphthene-d10	164	12.741	12.740	(1.000)	329222	40.0000	
$	*49 2,4,6-Tribromophenol*	*330*	*24.329*	*24.337*	*(0.822)*	*223057*	*69.8565*	*70*
*	64 Phenanthrene-d10	188	15.711	15.719	(1.000)	517245	40.0000	
$	71 Terphenyl-d14	244	19.004	19.003	(0.904)	420403	45.3831	45
*	76 Chrysene-d12	240	21.024	21.034	(1.000)	368107	40.0000	
*	83 Perylene-d12	264	23.649	23.649	(1.000)	243097	40.0000	

000637

Data File: S1D0683.D
Report Date: 04-Sep-2002 14:42

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0683.D
Lab Smp Id: A1243-20E Client Smp ID: EMW36
Inj Date : 31-AUG-2002 16:09
Operator : DG Inst ID: s1.i
Smp Info : A1243-20E,EMW36,S0825-BW1,DG,,A1243
Misc Info : 0,,,1,,,,,,,25-AUG-02,22-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1_8270C.m
Meth Date : 31-Aug-2002 12:45 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.Sub
Target Version: 4.03
Processing Host: TARGET2

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
GWMW37

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-37F
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0688
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
GWMW37

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-37F
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0688
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

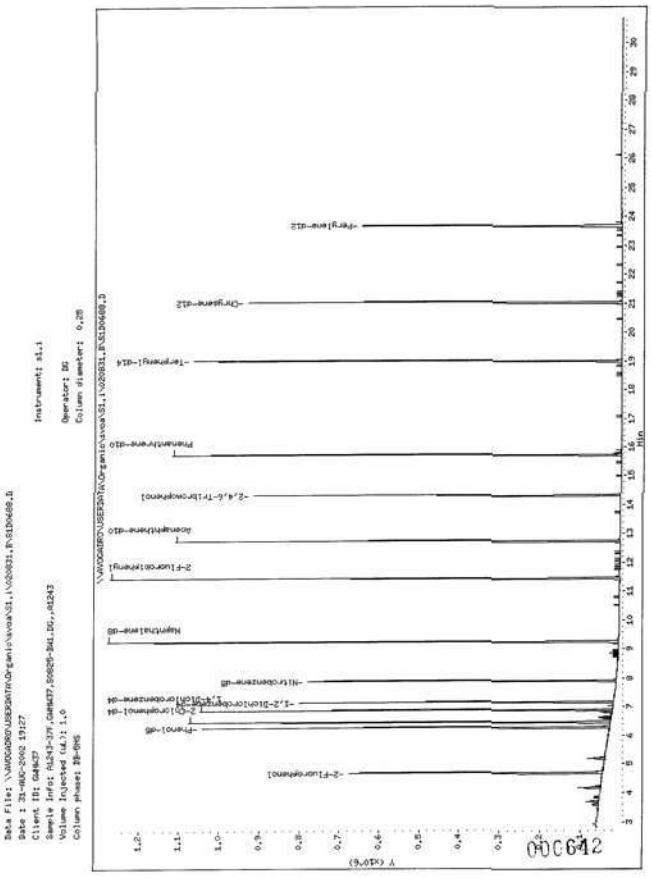
EPA SAMPLE NO.
GWMW37

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-37F
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0688
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC



Data File: S1D0688.D
Report Date: 04-Sep-2002 14:42

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0688.D
Lab Smp Id: A1243-37F Client Smp ID: GWMW37
Inj Date : 31-AUG-2002 19:27
Operator : DG Inst ID: s1.i
Smp Info : A1243-37F,GWMW37,S0825-BW1,DG,,A1243
Misc Info : 0,,,1,,,,,,,25-AUG-02,23-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1_8270C.m
Meth Date : 31-Aug-2002 12:45 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	CONST SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$	3 2-Fluorophenol	112	4.684	4.691	(0.679)	375636	37.8253	38
$	5 Phenol-d5	99	6.305	6.300	(0.914)	629755	51.9547	52
$	9 2-Chlorophenol-d4	132	6.488	6.495	(0.940)	551000	56.4038	56
*	12 1,4-Dichlorobenzene-d4	152	6.899	6.905	(1.000)	255960	40.0000	
$	14 1,2-Dichlorobenzene-d4	152	7.169	7.165	(1.039)	221779	42.7110	43
$	22 Nitrobentene-d5	82	7.914	7.921	(0.853)	453234	43.0005	43
*	31 Naphthalene-d8	136	9.275	9.282	(1.000)	957753	40.0000	
$	41 2-Fluorobiphenyl	172	11.457	11.464	(0.899)	662738	44.1058	44
*	48 Acenaphthene-d10	164	12.742	12.740	(1.000)	458761	40.0000	
$	60 2,4,6-Tribromophenol	330	14.330	14.337	(0.912)	172073	69.0259	69
*	64 Phenanthrene-d10	188	15.713	15.719	(1.000)	732392	40.0000	
$	71 Terphenyl-d14	244	19.007	19.003	(0.824)	405594	44.5111	44
*	76 Chrysene-d12	240	21.027	21.034	(1.000)	543037	40.0000	
*	83 Perylene-d12	264	23.673	23.669	(1.000)	368363	40.0000	

KC

9/4/02

000643

Data File: S1D0688.D
Report Date: 04-Sep-2002 14:42

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0688.D
Lab Smp Id: A1243-37F Client Smp ID: GWMW37
Inj Date : 31-AUG-2002 19:27
Operator : DG Inst ID: s1.i
Smp Info : A1243-37F,GWMW37,S0825-BW1,DG,,A1243
Misc Info : 0,,,1,,,,,,,25-AUG-02,23-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1_8270C.m
Meth Date : 31-Aug-2002 12:45 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

000644

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-13

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-15E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0579
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

000645

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-13

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-15E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0579
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	4	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	*Indeno(1,2,3-cd)pyrene*	*10*	*U*
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

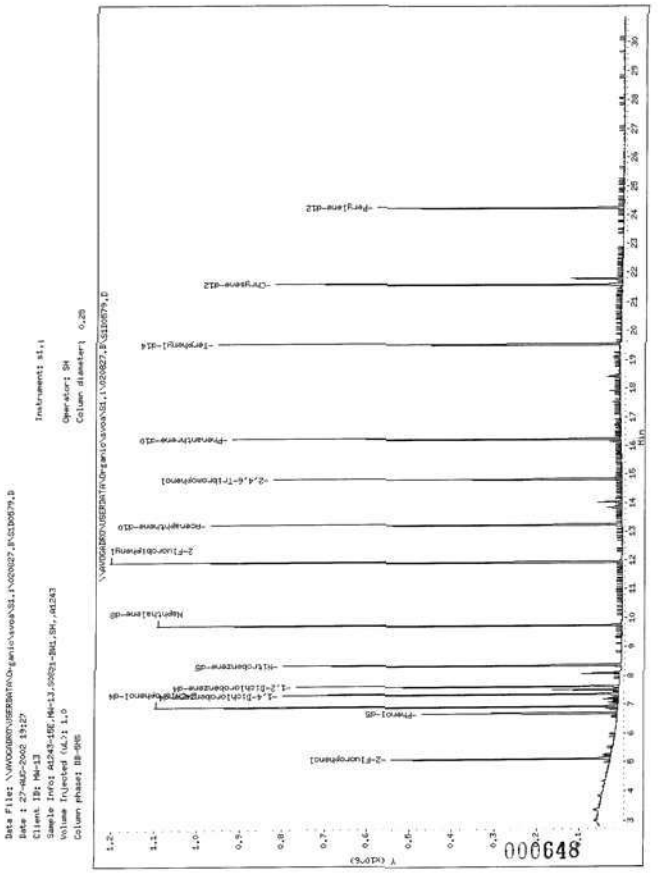
EPA SAMPLE NO.
MW-13

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-15E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0579
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.50	7	J
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC



Data File: S1D0579.D
Report Date: 04-Sep-2002 14:44

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1D0579.D
Lab Smp Id: A1243-15E Client Smp ID: MW-13
Inj Date : 27-AUG-2002 19:27
Operator : SH Inst ID: s1.i
Smp Info : A1243-15E,MW-13,S0821-BW1,SH,,A1243
Misc Info : 0,,,1,,,,,,,,21-AUG-02,20-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1_8270C.m
Meth Date : 30-Aug-2002 09:19 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
$ 3 2-Fluorophenol	112	5.115	5.115	(0.696)	294745	38.7578	39
$ 5 Phenol-d5	99	6.714	6.725	(0.913)	257966	27.7927	28
$ 9 2-Chlorophenol-d4	132	6.941	6.952	(0.944)	496588	66.1148	66
* 12 1,4-Dichlorobenzene-d4	152	7.351	7.362	(1.000)	196008	40.0000	
$ 14 1,2-Dichlorobenzene-d4	152	7.621	7.632	(1.037)	200571	50.4412	50
$ 22 Nitrobenzene-d5	82	8.377	8.388	(0.859)	381459	46.7981	47
* 31 Naphthalene-d8	136	9.749	9.760	(1.000)	741461	40.0000	
$ 41 2-Fluorobiphenyl	172	11.931	11.942	(0.901)	582865	48.6835	49
* 48 Acenaphthene-d10	164	13.249	13.260	(1.000)	352865	40.0000	
$ 60 2,4,6-Tribromophenol	330	14.837	14.847	(0.914)	141840	74.0867	74
* 64 Phenanthrene-d10	188	16.241	16.241	(1.000)	562473	40.0000	
$ 71 Terphenyl-d14	244	19.524	19.524	(0.905)	481466	45.3933	45
* 76 Chrysene-d12	240	21.577	21.588	(1.000)	422620	40.0000	
78 bis(2-Ethylhexyl)phthalate	149	21.782	21.793	(1.010)	60239	4.34498	4(m)

Data File: S1D0579.D
Report Date: 04-Sep-2002 14:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 49 Perylene-d12	264	26.234	26.248	(1.000)	293136	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

8/4/02

Data File: S1D0579.D
Report Date: 04-Sep-2002 14:44

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1D0579.D
Lab Smp Id: A1243-15E Client Smp ID: MW-13
Inj Date : 27-AUG-2002 19:27
Operator : SH Inst ID: s1.i
Smp Info : A1243-15E,MW-13,S0821-BW1,SH,,A1243
Misc Info : 0,,,1,,,,,,,21-AUG-02,20-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1_8270C.m
Meth Date : 30-Aug-2002 09:19 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

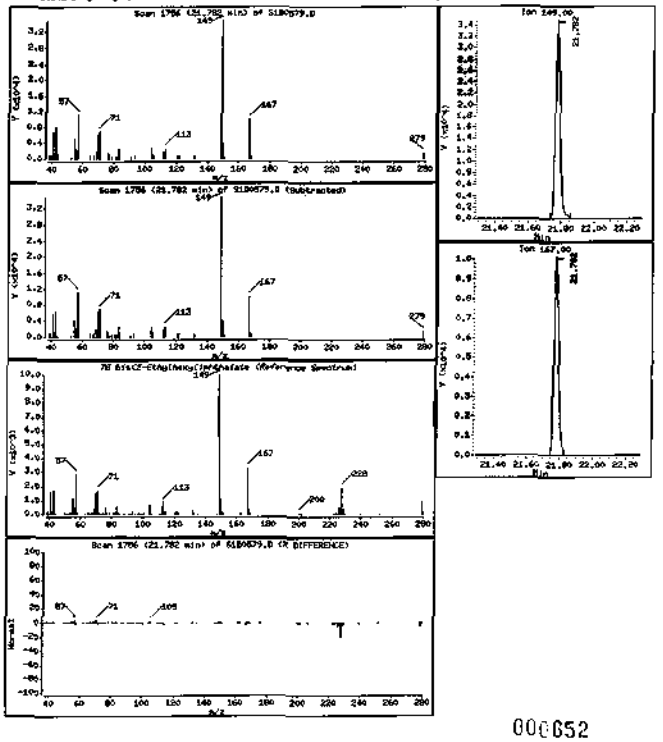
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

ISTD	RT	AREA	AMOUNT
* 12 1,4-Dichlorobenzene-d4	7.351	1183379	40.000

RT	AREA	CONCENTRATIONS ON-COLU (ng)	FINAL (ug/L)	QUAN QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
7.902	309490	7.07972878		7 0		0	12

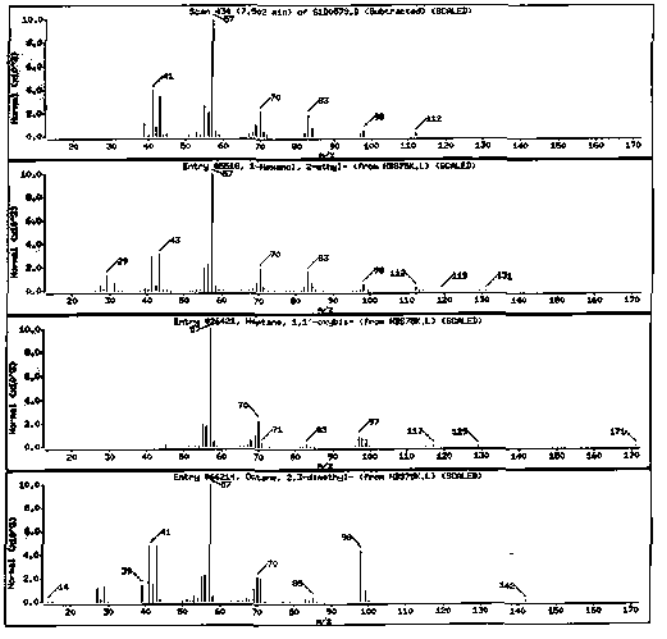
Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1D0579.D
Date : 27-AUG-2002 19:27
Client ID: MW-13 Instrument: s1.i
Sample Info: A1243-15E,MW-13,S0821-BW1,SH,,A1243
Volume Injected (uL): 1.0 Operator: SH
Column phase: DB-5MS Column diameter: 0.25

78 bis(2-Ethylhexyl)phthalate Concentration: 4 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1D0579.D
Date : 27-AUG-2002 19:27
Client ID: MW-13 Instrument: s1.i
Sample Info: A1243-15E,MW-13,S0821-BW1,SH,,A1243
Volume Injected (uL): 1.0 Operator: SH
Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Hexanol, 2-ethyl-	104-76-7	NIST98.L	9818	87	C8H18O	130
Heptane, 1,1'-oxybis-	629-64-1	NIST98.L	26421	86	C14H30O	214
Octane, 2,3-dimethyl-	7146-60-3	NIST98.L	64214	46	C10H22	142



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-26

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-16E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0578
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-26

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-16E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0578
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	6	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

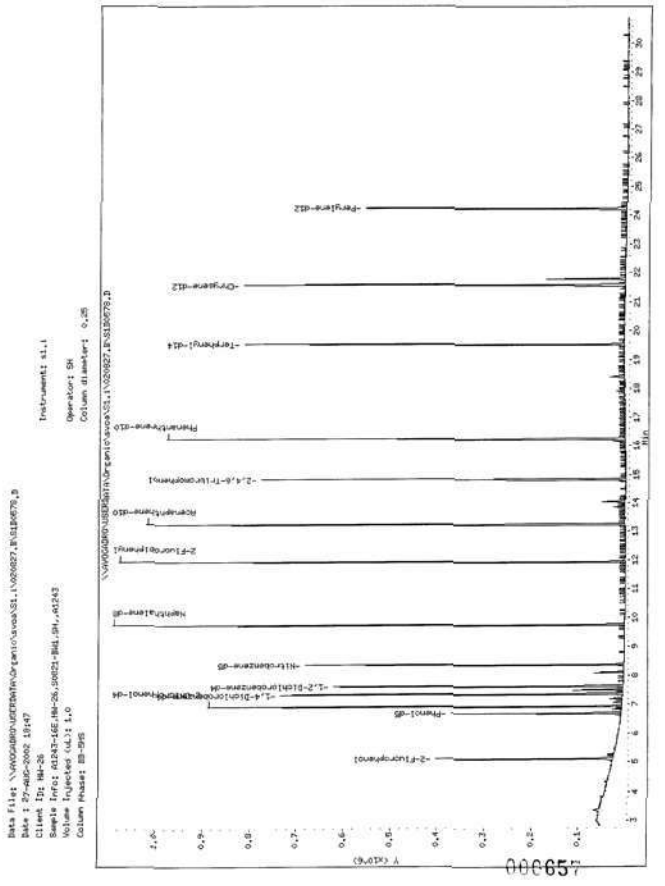
EPA SAMPLE NO.
MW-26

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-16E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0578
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.50	5	J
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC



Data File: S1D0578.D
Report Date: 04-Sep-2002 14:44

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1D0578.D
Lab Smp Id: A1243-16E Client Smp ID: MW-26
Inj Date : 27-AUG-2002 18:47
Operator : SH Inst ID: s1.i
Smp Info : A1243-16E,MW-26,S0821-BW1,SH,,A1243
Misc Info : 0,,,1,,,,,,,21-AUG-02,20-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1_8270C.m
Meth Date : 30-Aug-2002 09:19 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 3 2-Fluorophenol	112	5.116	5.118	(0.695)	222395	39.3098	39
$ 5 Phenol-d5	99	5.712	5.738	(0.813)	205414	33.0902	33
$ 9 2-Chlorophenol-d4	132	6.958	6.983	(0.963)	350834	52.1625	52
* 12 1,4-Dichlorobenzene-d4	152	7.360	7.369	(1.000)	198365	40.0000	(Q)
$ 14 3,3-Dichlorobenzidine-d6	262	7.930	7.953	(1.077)	163453	41.0109	41
$ 22 Nitrobenzene-d5	82	8.576	8.588	(0.858)	913395	39.2690	39
* 31 Naphthalene-d8	136	8.748	9.760	(1.000)	738834	40.0000	
$ 41 2-Fluorobiphenyl	172	11.828	11.843	(0.901)	496158	43.9583	44
* 48 Acenaphthene-d10	164	13.267	13.269	(1.000)	348899	40.0000	
$ 60 2,4,6-Tribromophenol	330	14.858	14.867	(0.814)	132084	70.9770	70
* 64 Phenanthrene-d10	188	16.138	16.141	(1.000)	582320	40.0000	
$ 91 Terphenyl-d14	244	19.531	19.524	(0.905)	681617	37.1084	37
* 76 Chrysene-d12	240	21.675	21.898	(1.000)	430382	40.0000	
78 bis(2-Ethylhexyl)phthalate	149	21.790	21.795	(1.010)	82227	9.65514	9(a)

Data File: S1D0578.D
Report Date: 04-Sep-2002 14:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 85 Perylene-d12	264	34.243	34.245	(1.000)	301458	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

8270
9/4/02

Data File: S1D0578.D
Report Date: 04-Sep-2002 14:44

Mitkem Corporation

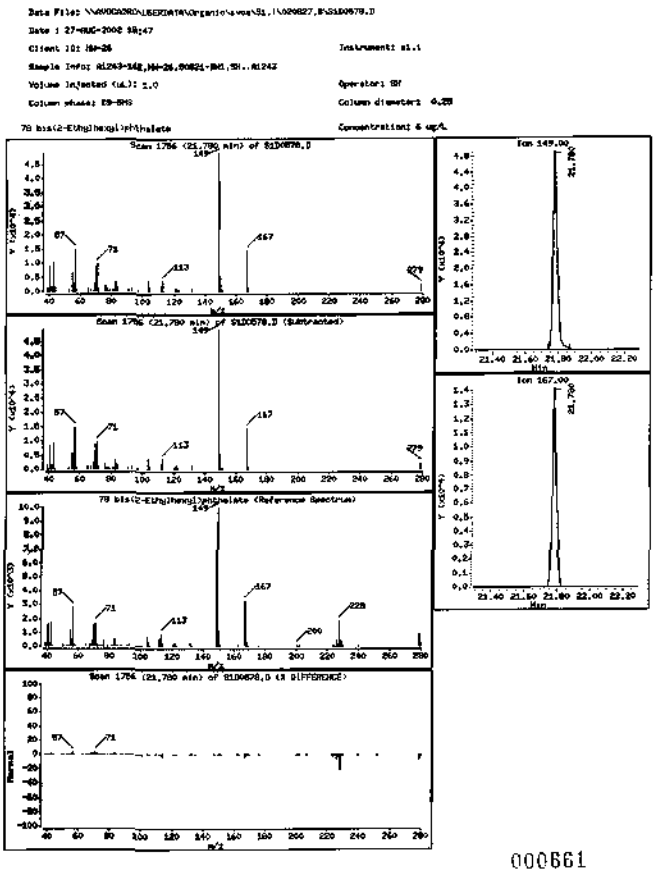
Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1D0578.D
Lab Smp Id: A1243-16E Client Smp ID: MW-26
Inj Date : 27-AUG-2002 18:47
Operator : SH Inst ID: s1.i
Smp Info : A1243-16E,MW-26,S0821-BW1,SH,,A1243
Misc Info : 0,,,1,,,,,,,21-AUG-02,20-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1_8270C.m
Meth Date : 30-Aug-2002 09:19 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

ISTD	RT	AREA	AMOUNT
* 12 1,4-Dichlorobenzene-d4	7.360	1280822	40.000

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown			CAS #:				
7.965	744424	5.23167435	5	Q		0	12



Data File: \\NVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1D0576.D

Date : 27-AUG-2002 18:47

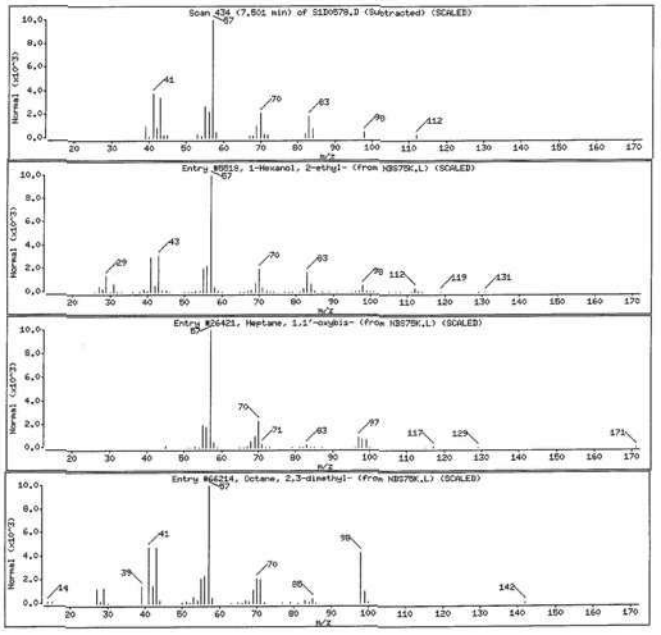
Client ID: MW-26 Instrument: s1.i

Sample Info: A1243-16E,MW-26,50821-BN1.SH,,A1243

Volume Injected (uL): 1.0 Operator: SH

Column phase: IB-5HS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Hexanol, 2-ethyl-	104-76-7	NBS75K.L	5518	83	C8H18O	130
Heptane, 1,1'-oxybis-	629-64-1	NBS75K.L	26421	80	C14H30O	214
Octane, 2,3-dimethyl-	7146-60-3	NBS75K.L	66214	45	C10H22	142



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW-34

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-04D

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0576

Level: (low/med) LOW Date Received: 08/20/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/21/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	1	J
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW-34

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-04D

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0576

Level: (low/med) LOW Date Received: 08/20/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/21/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	3	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	7	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: MW-34

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-04D

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0576

Level: (low/med) LOW Date Received: 08/20/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/21/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02

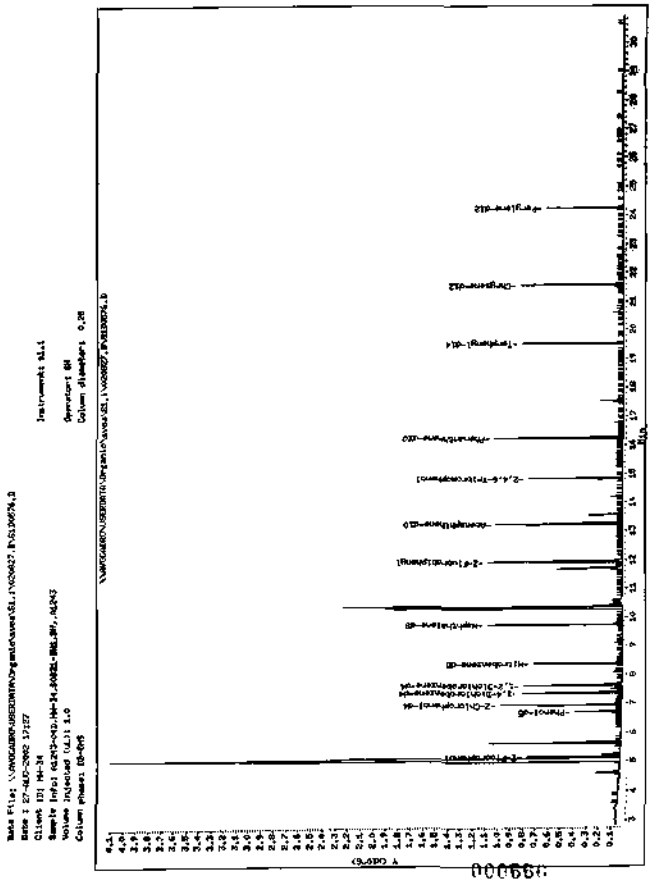
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 7 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.51	4	J
2.	UNKNOWN	10.32	92	J
3.	UNKNOWN	10.37	110	J
4.	UNKNOWN	10.45	5	J
5.	UNKNOWN	11.70	24	J
6. 90-43-7	O-HYDROXYBIPHENYL	13.56	11	NJ
7.	UNKNOWN	20.63	7	J
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC



000667

Data File: S1D0576.D
Report Date: 04-Sep-2002 14:44

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1D0576.D
Lab Smp Id: A1243-04D Client Smp ID: MW-34
Inj Date : 27-AUG-2002 17:27
Operator : SH Inst ID: s1.i
Smp Info : A1243-04D,MW-34,$0821-BW1,SH,,A1243
Misc Info : 0,,,1,,,,,,,21-AUG-02,20-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1_8270C.m
Meth Date : 30-Aug-2002 09:19 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)	
$	3 2-Fluorophenol	112	5.145	5.116	(0.679)	236535	29.9683	30	
$	5 Phenol-d5	99	6.713	6.725	(0.912)	210790	31.8719	32	
	6 Phenol	94	6.733	6.746	(0.915)	14019	1.48533	1.5	[2]
$	9 2-Chlorophenol-d4	132	6.936	6.953	(0.943)	445264	57.8334	58	
*	10 1,4-Dichlorobenzene-d4	152	7.358	7.368	(1.000)	365519	40.0000		
$	16 1,3-Dichlorobenzene-d4	152	7.620	7.632	(1.037)	187101	48.3414	48	
$	22 Nitrobenzene-d5	82	8.575	8.588	(0.838)	364291	43.7686	44	
*	31 Naphthalene-d8	136	9.747	9.760	(1.000)	756279	40.0000		
$	42 2-Fluorobiphenyl	172	11.923	11.942	(0.902)	540517	47.3181	47	
*	48 Acenaphthene-d10	164	13.246	13.260	(1.000)	353844	40.0000		
	54 Diethylphthalate	149	14.218	14.243	(1.073)	44049	3.94959	3.9	[a]
$	60 2,4,6-Tribromophenol	330	14.865	14.887	(0.934)	143490	92.9118	93	
*	64 Phenanthrene-d10	188	16.278	16.291	(1.000)	678991	40.0000		
	68 Di-n-butylphthalate	149	17.896	17.888	(1.081)	144915	7.33748	7	[a]

Data File: S1D0576.D
Report Date: 04-Sep-2002 14:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)	
$ 71 Terphenyl-d14	244	19.522	19.574	(0.805)	406909	38.3673	38	
* 76 Chrysene-d12	240	21.574	21.599	(1.000)	458172	40.0000		
* 82 Perylene-d12	264	24.241	24.265	(1.000)	324629	40.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

000668

Data File: S1D0576.D
Report Date: 04-Sep-2002 14:44

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1D0576.D
Lab Smp Id: A1243-04D Client Smp ID: MW-34
Inj Date : 27-AUG-2002 17:27
Operator : SH Inst ID: s1.i
Smp Info : A1243-04D,MW-34,$0821-BW1,SH,,A1243
Misc Info : 0,,,1,,,,,,,21-AUG-02,20-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1_8270C.m
Meth Date : 30-Aug-2002 09:19 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

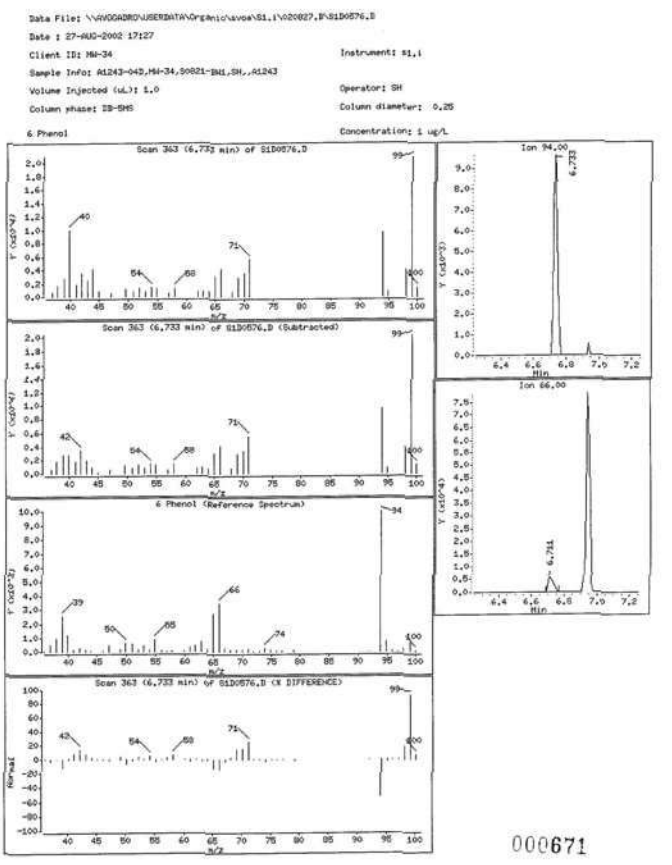
ISTD	RT	AREA	AMOUNT
* 12 1,4-Dichlorobenzene-d4	7.360	1366502	40.000
* 31 Naphthalene-d8	9.747	1667695	40.000
* 48 Acenaphthene-d10	13.246	1574112	40.000
* 76 Chrysene-d12	21.574	1485555	40.000

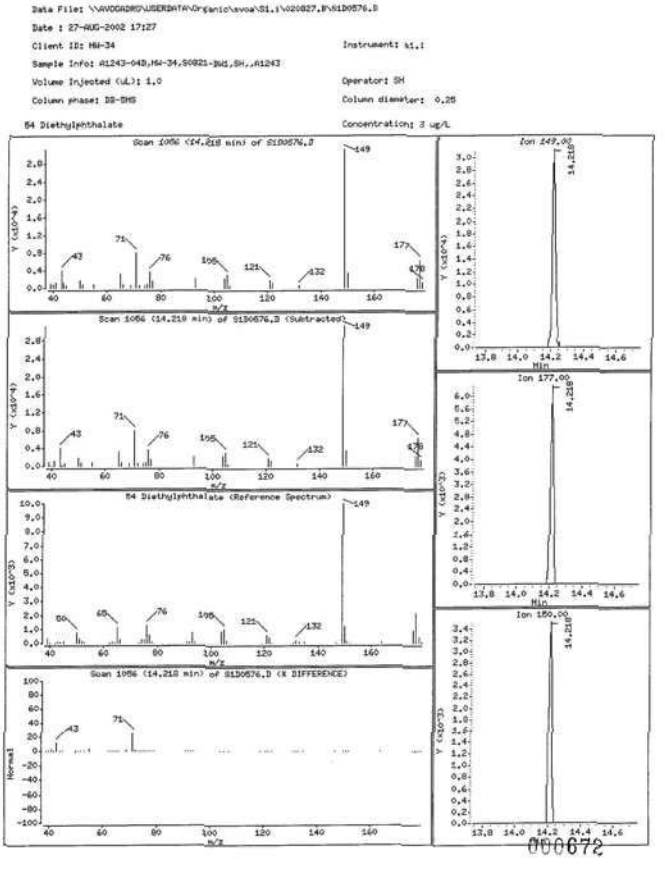
	CONCENTRATIONS		QUANT		
RT	AREA	ON-COL(ng) FINAL(ug/L)	QUAL	LIBRARY	ID# RT#: CAS# #

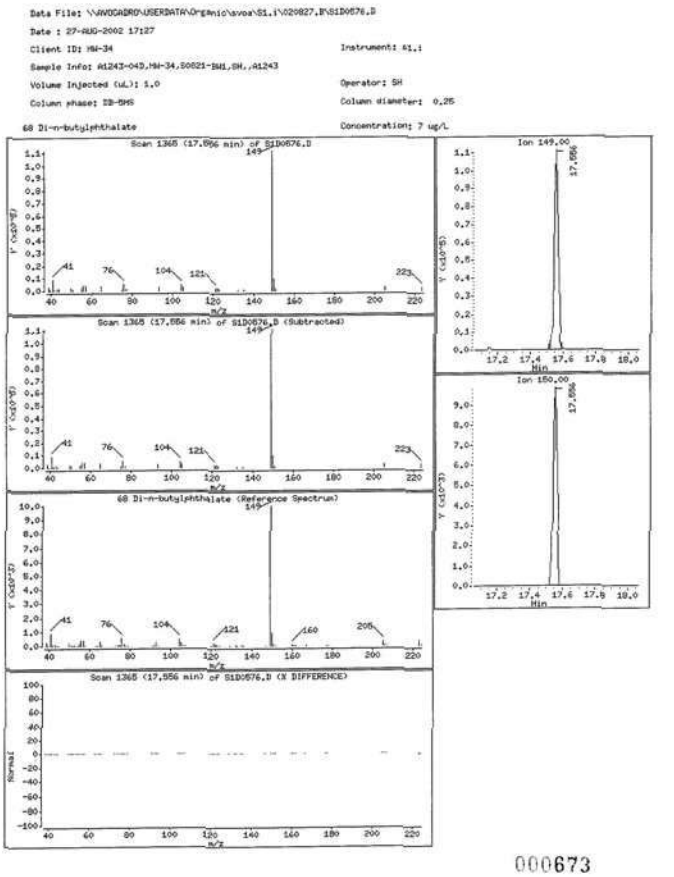
000669

Data File: S1D0576.D
Report Date: 04-Sep-2002 14:44

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CSCD #
Unknown				CAS #:			
7.511	150836	4.41524418	4	0		0	13
Unknown				CAS #:			
10.319	3828699	91.8321154	92	0		0	31
Unknown				CAS #:			
10.373	4464498	107.081882	110	0		0	31
Unknown				CAS #:			
10.449	205880	4.93087765	5	0		0	31
Unknown				CAS #:			
11.703	944203	23.9932864	24	0		0	48
4-Hydroxybiphenyl				CAS #: 92-43-7			
13.560	424160	10.7783944	11	97	NIST5K.L	68241	48
Unknown				CAS #:			
20.635	247894	6.67478686	7	0		0	76







Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1D0676.D

Date : 27-AUG-2002 17:27

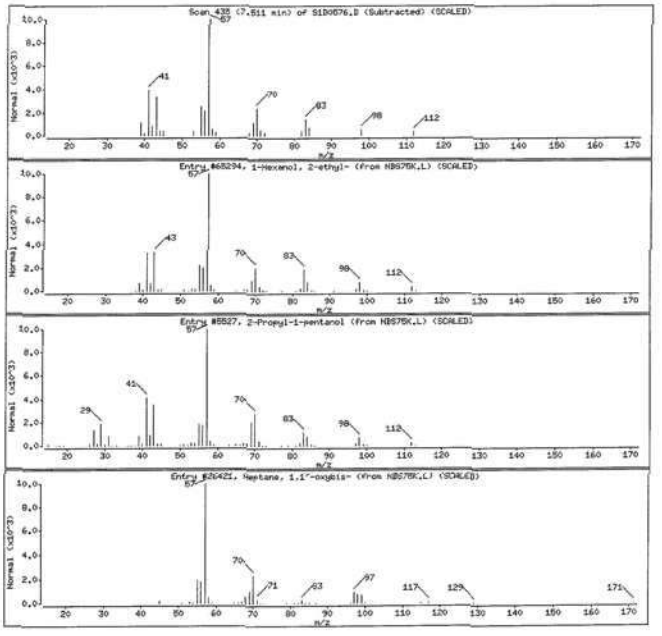
Client ID: MW-34 Instrument: s1.i

Sample Info: A1243-04D,MW-34,S0821-BW1,SH,,A1243

Volume Injected (uL): 1.0 Operator: SH

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Hexanol, 2-ethyl-	104-76-7	NBS75K.L	68294	83	C8H18O	130
2-Propyl-1-pentanol	58175-57-8	NBS75K.L	8527	64	C8H18O	130
Heptane, 1,1'-oxybis-	629-64-1	NBS75K.L	26421	46	C14H30O	214



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1D0676.D

Date : 27-AUG-2002 17:27

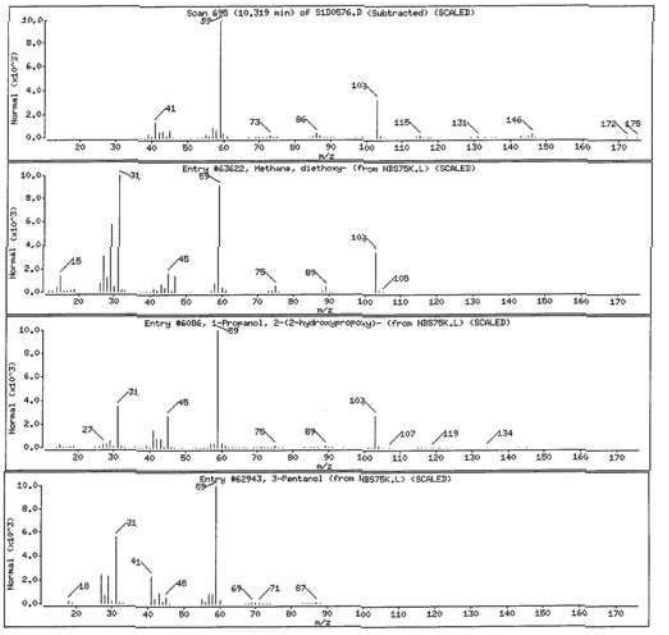
Client ID: MW-34 Instrument: s1.i

Sample Info: A1243-04D,MW-34,S0821-BW1,SH,,A1243

Volume Injected (uL): 1.0 Operator: SH

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Methane, diethoxy-	462-95-3	NBS75K.L	63622	72	C5H12O2	104
1-Propanol, 2-(2-hydroxypropoxy)-	106-62-7	NBS75K.L	6086	56	C6H14O3	134
3-Pentanol	584-02-1	NBS75K.L	62943	42	C5H12O	88



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1D0676.D

Date : 27-AUG-2002 17:27

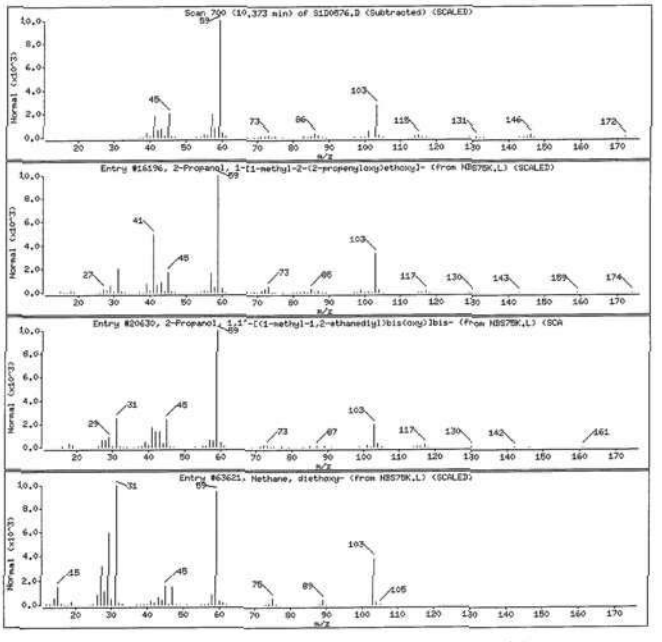
Client ID: MW-34 Instrument: s1.i

Sample Info: A1243-04D,MW-34,S0821-BW1,SH,,A1243

Volume Injected (uL): 1.0 Operator: SH

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Propanol, 1-[1-methyl-2-(2-propenyloxy	68956-29-7	NBS75K.L	16196	72	C9H18O3	174
2-Propanol, 1,1'-[(1-methyl-1,2-ethanedi	1638-16-0	NBS75K.L	20630	72	C9H20O4	192
Methane, diethoxy-	462-95-3	NBS75K.L	63621	59	C5H12O2	104



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1D0676.D

Date : 27-AUG-2002 17:27

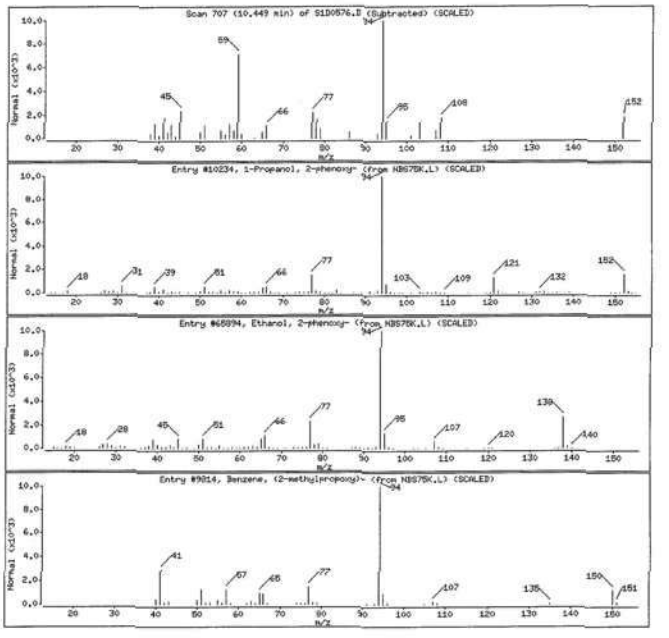
Client ID: MW-34 Instrument: s1.i

Sample Info: A1243-04D,MW-34,S0821-BW1,SH,,A1243

Volume Injected (uL): 1.0 Operator: SH

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Propanol, 2-phenoxy-	4169-04-4	NBS75K.L	10234	49	C9H12O2	152
Ethanol, 2-phenoxy-	122-99-6	NBS75K.L	65894	47	C8H10O2	138
Benzene, (2-methylpropoxy)-	1126-75-6	NBS75K.L	9814	38	C10H14O	150



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827,B\S1D0676.D

Date : 27-AUG-2002 17:27

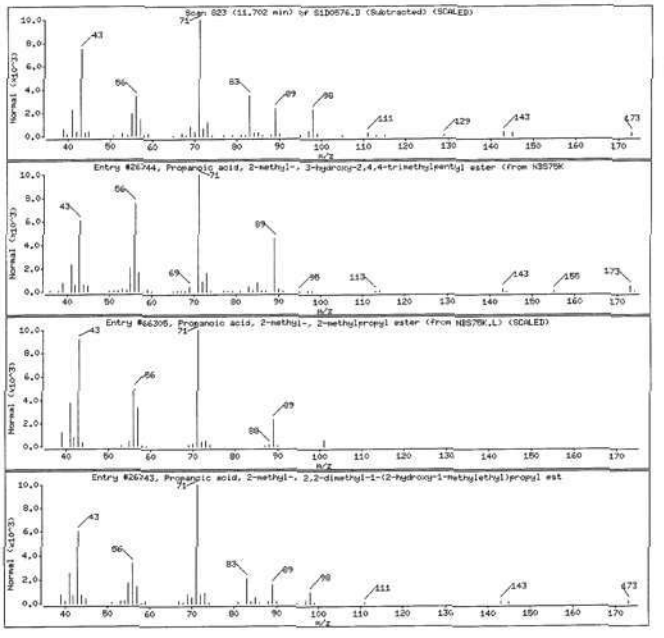
Client ID: MW-34 Instrument: s1.i

Sample Info: A1243-04D,MW-34,60821-BW1,SH,,A1243

Volume Injected (uL): 1.0 Operator: SH

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Propanoic acid, 2-methyl-, 3-hydroxy-2,4	74367-34-3	NBS75K.L	26744	43	C12H2403	216
Propanoic acid, 2-methyl-, 2-methylpropy	97-85-8	NBS75K.L	66306	40	C8H1602	144
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	NBS75K.L	26743	38	C12H2403	216



000678

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827,B\S1D0676.D

Date : 27-AUG-2002 17:27

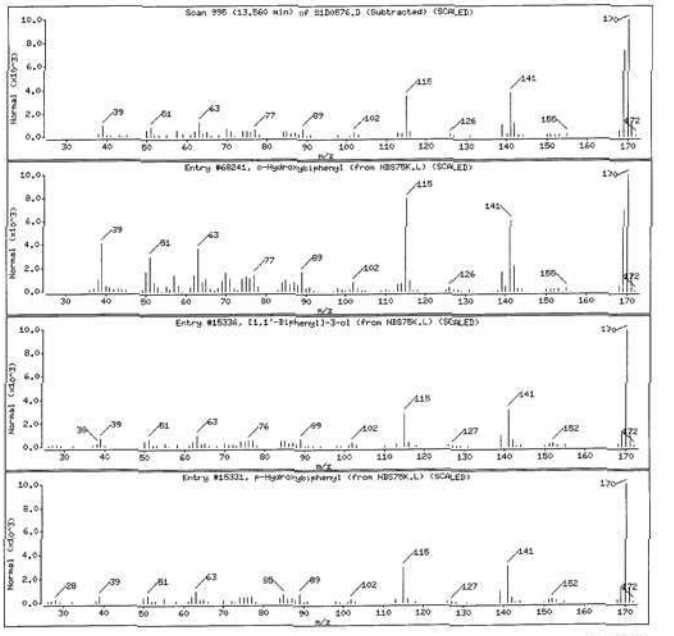
Client ID: MW-34 Instrument: s1.i

Sample Info: A1243-04D,MW-34,60821-BW1,SH,,A1243

Volume Injected (uL): 1.0 Operator: SH

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
o-Hydroxybiphenyl	90-43-7	NBS75K.L	68241	97	C12H10O	170
[1,1'-Biphenyl]-3-ol	580-51-8	NBS75K.L	15336	86	C12H10O	170
p-Hydroxybiphenyl	92-69-3	NBS75K.L	15331	83	C12H10O	170



000678A

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827,B\S1D0676.D

Date : 27-AUG-2002 17:27

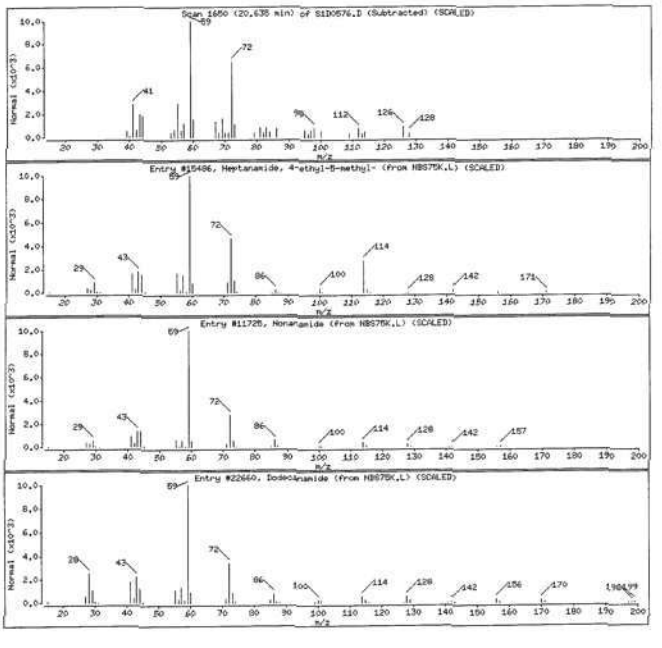
Client ID: MW-34 Instrument: s1.i

Sample Info: A1243-04D,MW-34,60821-BW1,SH,,A1243

Volume Injected (uL): 1.0 Operator: SH

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Heptanamide, 4-ethyl-6-methyl-	54789-40-1	NBS75K.L	15486	86	C10H21NO	171
Nonanamide	1120-07-6	NBS75K.L	11726	83	C9H19NO	157
Dodecanamide	1120-16-7	NBS75K.L	22660	46	C12H25NO	199



000679

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-35

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-11F

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0577

Level: (low/med) LOW Date Received: 08/21/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/21/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	2	J
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-2	*Isophorone*	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

000680

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-35

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-11F
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0577
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	3	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	7	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

000681

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-35

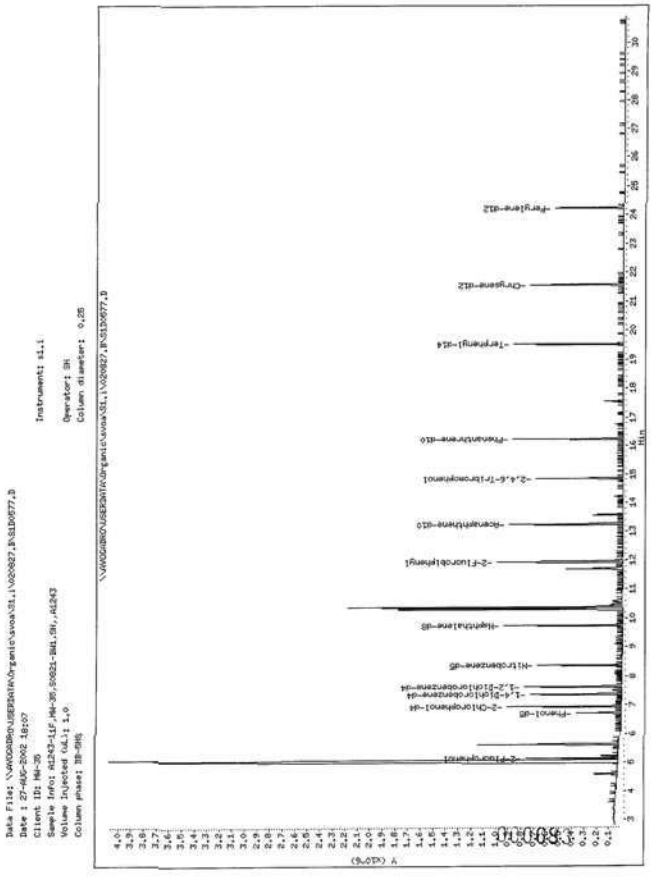
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-11F
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0577
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 8 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.51	4	J
2.	UNKNOWN	10.31	100	J
3.	UNKNOWN	10.37	120	J
4.	UNKNOWN	10.45	7	J
5.	UNKNOWN	10.53	4	J
6.	UNKNOWN	10.59	7	J
7.	UNKNOWN	11.70	24	J
8. 90-43-7	O-HYDROXYBIPHENYL	13.56	11	NJ
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

000682



000683

Data File: S1D0577.D
Report Date: 04-Sep-2002 14:44

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1D0577.D
Lab Smp Id: A1243-11F Client Smp ID: MW-35
Inj Date : 27-AUG-2002 18:07
Operator : SH Inst ID: s1.i
Smp Info : A1243-11F,MW-35,S0821-BW1,SH,,A1243
Misc Info : 0,,,1,,,,,,,,21-AUG-02,20-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1_8270C.m
Meth Date : 30-Aug-2002 09:19 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	QUANT SIM MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
$	3 2-Fluorophenol	112	5.144	5.115	(0.699)	238839	34.5219	34
$	5 Phenol-d5	99	6.711	6.725	(0.912)	302420	23.9716	24
	6 Phenol	94	6.752	6.746	(0.915)	14090	1.70150	2(mQ)
$	9 2-Chlorophenol-d4	132	6.938	6.952	(0.943)	426591	64.1514	64
*	12 1,4-Dichlorobenzene-d4	152	7.359	7.362	(1.000)	178319	40.0000	
$	14 1,2-Dichlorobenzene-d4	152	7.629	7.633	(1.037)	177843	49.1618	49
$	23 Nitrobenzene-d5	82	8.374	8.388	(0.859)	341948	48.1020	48
*	31 Naphthalene-d8	136	9.746	9.760	(1.000)	649954	40.0000	
$	41 2-Fluorobiphenyl	172	11.928	11.942	(0.901)	520317	49.5122	50
*	48 Acenaphthene-d10	164	13.246	13.260	(1.000)	308451	40.0000	
	54 Diethylphthalate	149	14.218	14.243	(1.073)	38184	3.53186	3(aN)
$	60 2,4,6-Tribromophenol	330	14.833	14.847	(0.914)	120652	71.6149	71
*	64 Phenanthrene-d10	188	16.238	16.241	(1.000)	496351	40.0000	
	68 Di-n-butylphthalate	149	17.555	17.559	(1.081)	143433	7.46444	7(a)

000684

Data File: S1D0577.D
Report Date: 04-Sep-2002 14:44

	Compounds	QUANT SIG MASS	RT	RRT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/l)
S	71 Terphenyl-d14	244	19.521	19.525	(0.905)	942431	45.6995	46
*	76 Chrysene-d12	240	21.574	21.580	(1.000)	994645	40.0000	
	78 bis(2-Ethylhexyl)phthalate	149	21.779	21.793	(1.010)	21888	1.47648	2(A)
*	82 Perylene-d12	264	24.231	24.245	(1.000)	874699	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

9/11/02

KL

Data File: S1D0577.D
Report Date: 04-Sep-2002 14:44

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1D0577.D
Lab Smp Id: A1243-11F Client Smp ID: MW-35
Inj Date : 27-AUG-2002 18:07
Operator : SH Inst ID: s1.i
Smp Info : A1243-11F,MW-35,S0821-BW1,SH,,A1243
Misc Info : 0,,,1,,,,,,,,21-AUG-02,20-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1_8270C.m
Meth Date : 30-Aug-2002 09:19 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

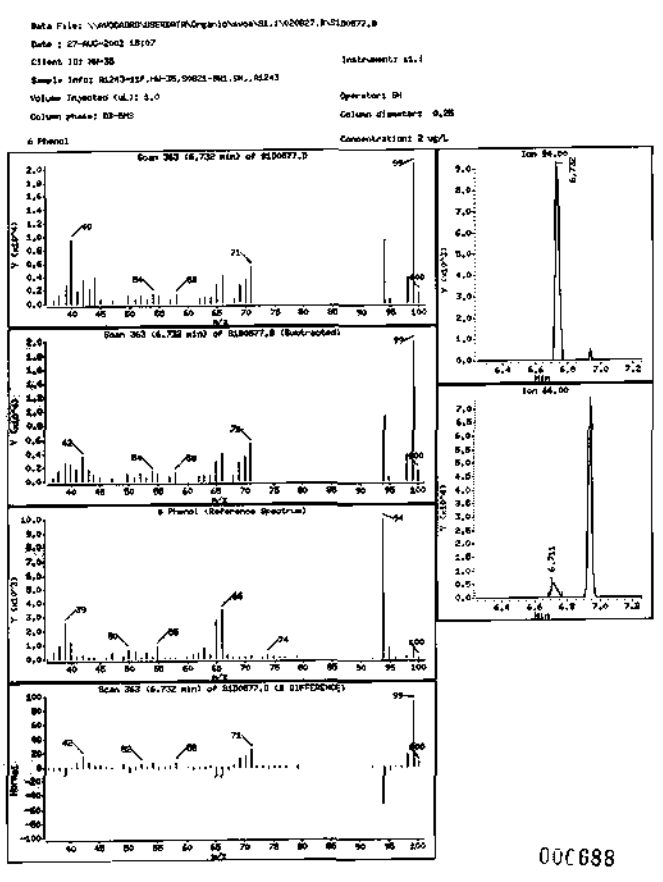
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	ISTD	RT	AREA	AMOUNT
*	12 1,4-Dichlorobenzene-d4	7.359	1211852	40.000
*	31 Naphthalene-d8	9.746	1426301	40.000
*	48 Acenaphthene-d10	13.246	1334802	40.000

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/l)	QUANT QUAL	LIBRARY	LIB ENTRY	CMPD #
Unknown				CAS #:			
7.520	151561	4.24843744	4	0		0	12

Data File: S1D0577.D
Report Date: 04-Sep-2002 14:44

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/l)	QUANT QUAL	LIBRARY	LIB ENTRY	CMPD #
Unknown				CAS #:			
10.308	3453769	102.468385	100	0		0	31
Unknown				CAS #:			
10.372	4177468	115.845838	120	0		0	31
Unknown				CAS #:			
10.448	358151	8.71207838	9	0		0	31
Unknown				CAS #:			
10.514	348258	4.10303398	4	0		0	31
Unknown				CAS #:			
10.588	258504	7.34968364	7	0		0	33
Unknown				CAS #:			
11.795	810919	24.3008027	24	0		0	48
o-Hydroxyphenyl				CAS #: 90-43-7			
13.959	588048	10.7296213	11	97	NBS75K.L	69241	40



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1D0677.D

Date : 27-AUG-2002 18:07

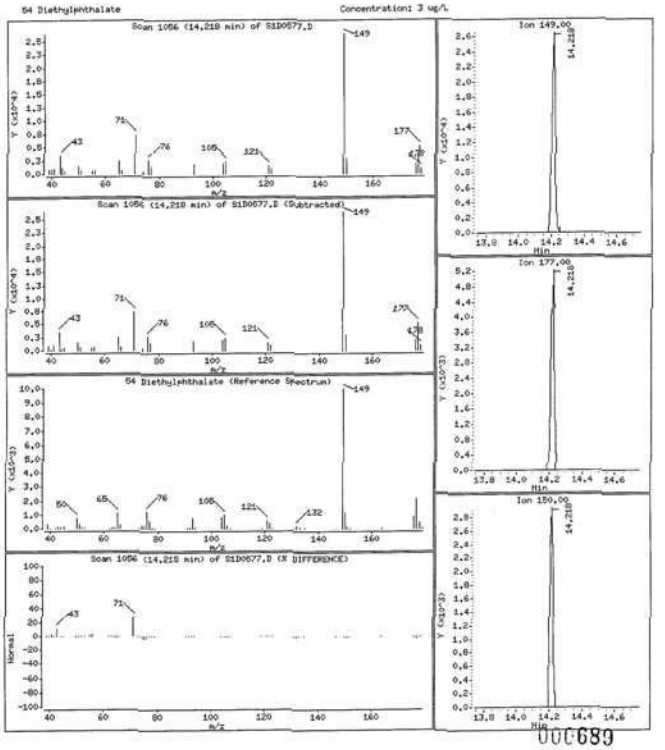
Client ID: HW-38 Instrument: s1.i

Sample Info: A1243-11F,HW-38,S0821-BW1,SH,,A1243

Volume Injected (uL): 1.0 Operator: SH

Column phase: DB-5MS Column diameter: 0.25

64 Diethylphthalate Concentration: 3 ug/L



000689

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1D0677.D

Date : 27-AUG-2002 18:07

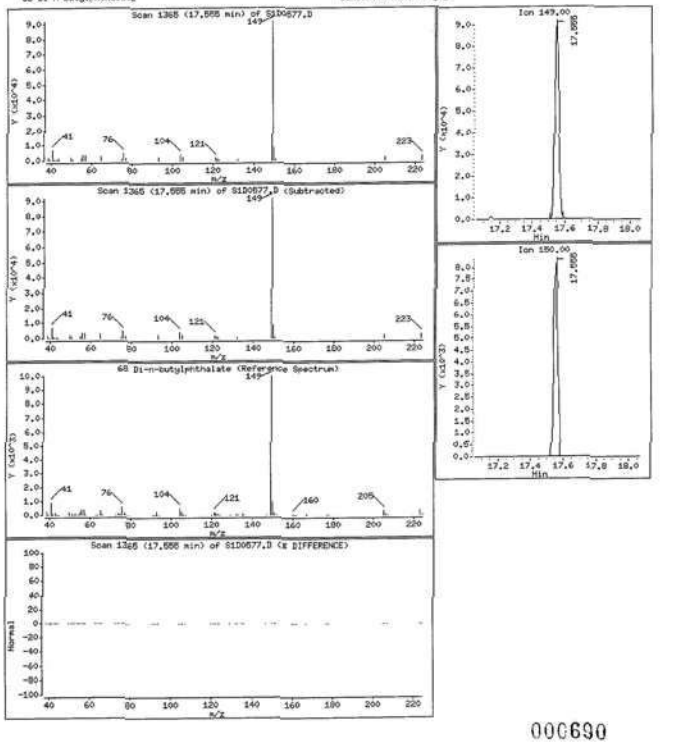
Client ID: HW-38 Instrument: s1.i

Sample Info: A1243-11F,HW-38,S0821-BW1,SH,,A1243

Volume Injected (uL): 1.0 Operator: SH

Column phase: DB-5MS Column diameter: 0.25

68 Di-n-butylphthalate Concentration: 7 ug/L



000690

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1D0677.D

Date : 27-AUG-2002 18:07

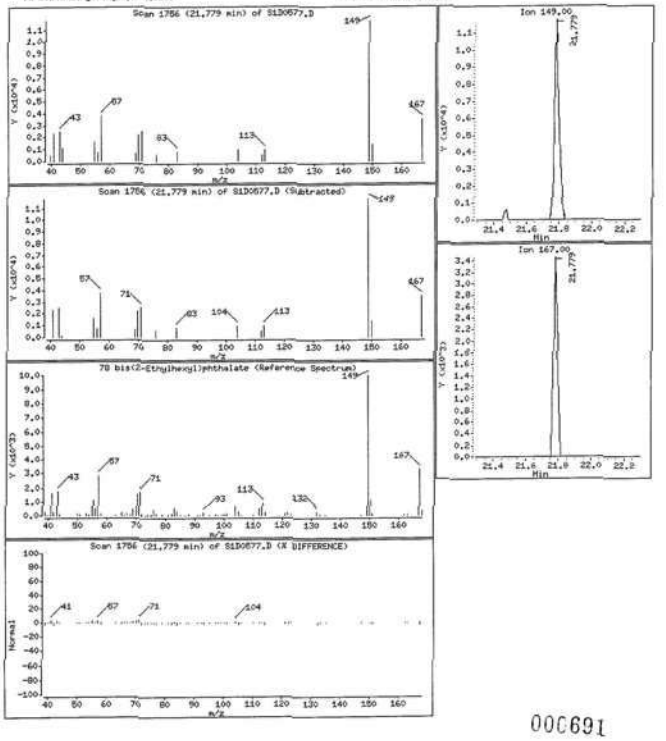
Client ID: HW-38 Instrument: s1.i

Sample Info: A1243-11F,HW-38,S0821-BW1,SH,,A1243

Volume Injected (uL): 1.0 Operator: SH

Column phase: DB-5MS Column diameter: 0.25

78 bis(2-Ethylhexyl)phthalate Concentration: 2 ug/L



000691

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1D0677.D

Date : 27-AUG-2002 18:07

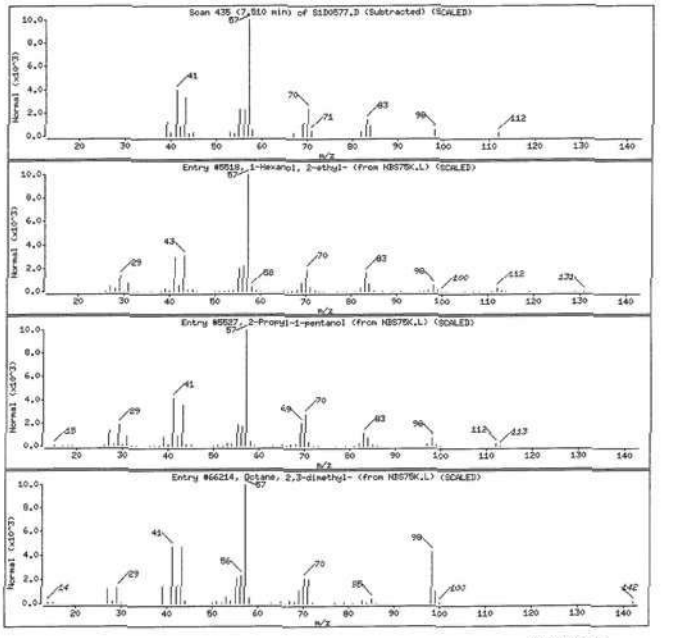
Client ID: HW-38 Instrument: s1.i

Sample Info: A1243-11F,HW-38,S0821-BW1,SH,,A1243

Volume Injected (uL): 1.0 Operator: SH

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Hexanol, 2-ethyl-	104-76-7	NBS75K.L	6510	83	C8H18O	130
2-Propyl-1-pentanol	*6178-27-8*	*NBS75K.L*	*6527*	*64*	*C8H18O*	*130*
Octane, 2,3-dimethyl-	7146-60-3	NBS75K.L	66214	53	C10H22	142



000692

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.1\020827.B\S1D0677.D

Date : 27-AUG-2002 18:07

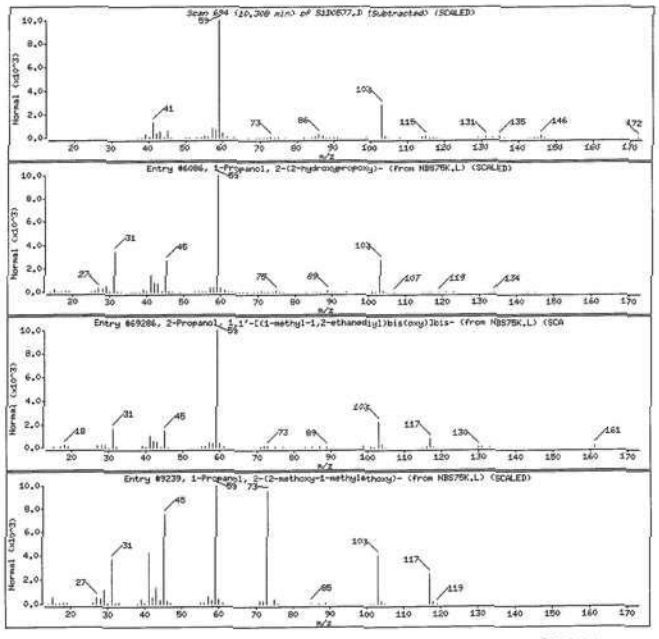
Client ID: MW-35 Instrument: s1.i

Sample Info: A1243-11F,MW-35,S0821-BW1.SW,,A1243

Volume Injected (uL): 1.0 Operator: SH

Column phase: Rtx-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Propanol, 2-(2-hydroxypropoxy)-	106-62-7	NBS75K.L	6006	56	C6H14O3	134
2-Propanol, 1,1'-[(1-methyl-1,2-ethanedi	1638-16-0	NBS75K.L	69206	56	C9H20O4	192
1-Propanol, 2-(2-methoxy-1-methylethoxy)	55956-21-3	NBS75K.L	9229	56	C7H16O3	148



000693

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.1\020827.B\S1D0677.D

Date : 27-AUG-2002 18:07

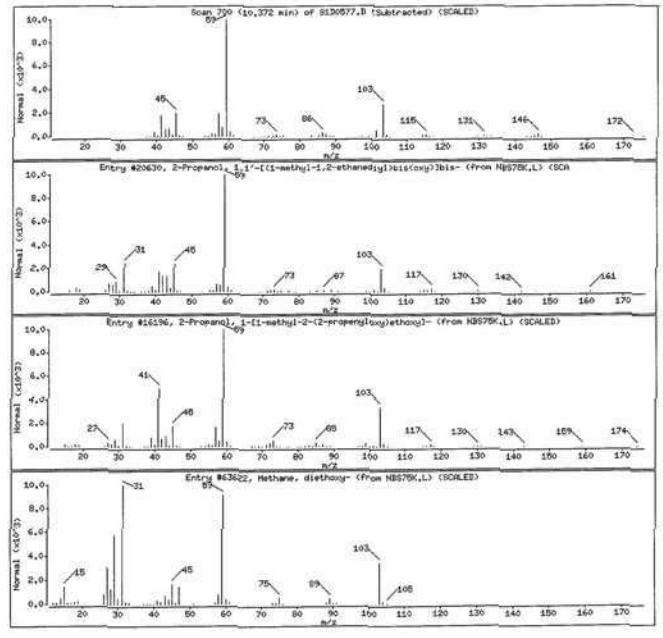
Client ID: MW-35 Instrument: s1.i

Sample Info: A1243-11F,MW-35,S0821-BW1.SW,,A1243

Volume Injected (uL): 1.0 Operator: SH

Column phase: Rtx-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Propanol, 1,1'-[(1-methyl-1,2-ethanedi	1638-16-0	NBS75K.L	20630	72	C9H20O4	192
2-Propanol, 1-[1-methyl-2-(2-propenyloxy	55956-25-7	NBS75K.L	16196	72	C9H18O3	174
Methane, diethoxy-	462-95-3	NBS75K.L	63622	64	C5H12O2	104



000694

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.1\020827.B\S1D0677.D

Date : 27-AUG-2002 18:07

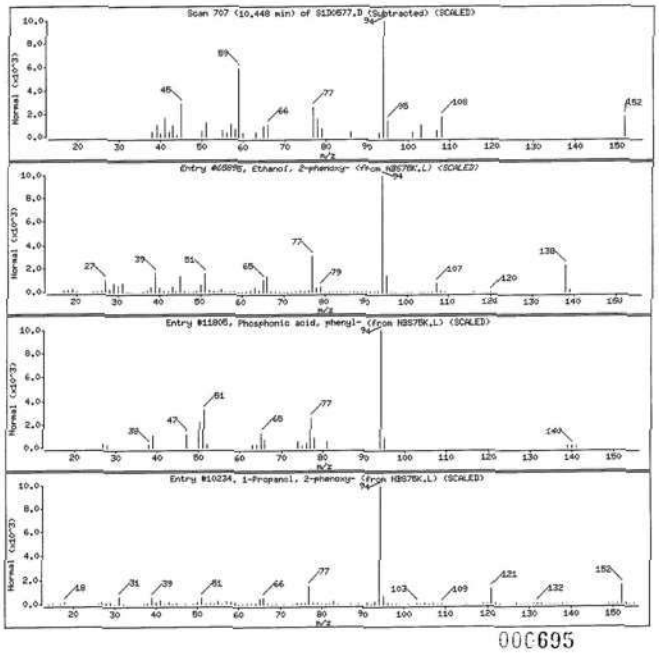
Client ID: MW-35 Instrument: s1.i

Sample Info: A1243-11F,MW-35,S0821-BW1.SW,,A1243

Volume Injected (uL): 1.0 Operator: SH

Column phase: Rtx-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Ethanol, 2-phenoxy-	122-99-6	NBS75K.L	65896	47	C8H10O2	138
Phosphonic acid, phenyl-	1571-33-1	NBS75K.L	11806	43	C6H7O3P	158
1-Propanol, 2-phenoxy-	4169-04-4	NBS75K.L	10234	43	C9H12O2	152



000695

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.1\020827.B\S1D0677.D

Date : 27-AUG-2002 18:07

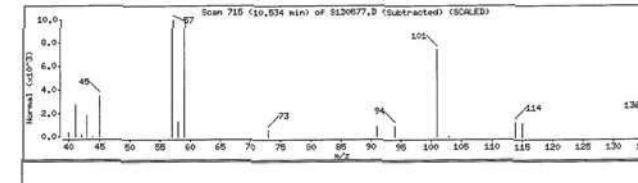
Client ID: MW-35 Instrument: s1.i

Sample Info: A1243-11F,MW-35,S0821-BW1.SW,,A1243

Volume Injected (uL): 1.0 Operator: SH

Column phase: Rtx-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Unknown			0	0		0



000696

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020627.B\S1D0577.D

Date : 27-AUG-2002 18:07

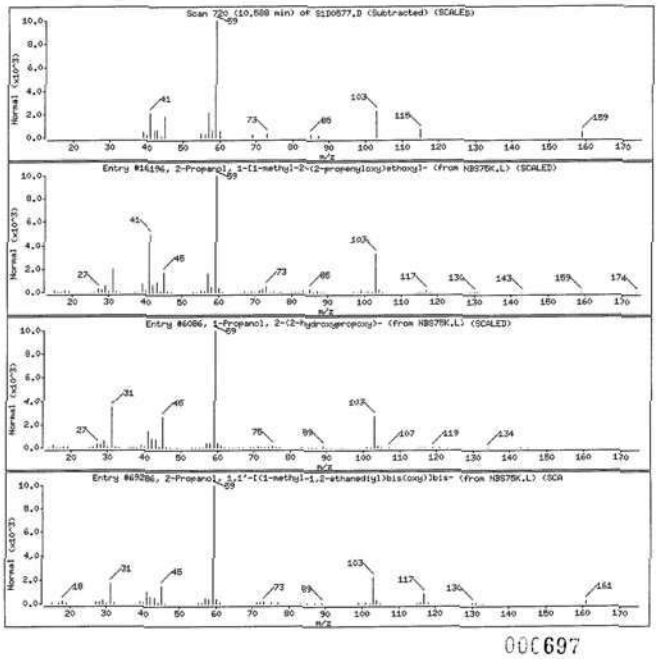
Client ID: MW-35 Instrument: s1.i

Sample Info: A1243-11F,MW-35,50821-BW1,SH,,A1243

Volume Injected (uL): 1.0 Operator: SH

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Propanol, 1-[1-methyl-2-(2-propenyloxy	55956-25-7	NBS75K.L	16196	78	C9H18O3	174
1-Propanol, 2-(2-Hydroxypropoxy)-	106-62-7	NBS75K.L	6086	72	C6H14O3	134
2-Propanol, 1,1'-[(1-methyl-1,2-ethanedi	1638-16-0	NBS75K.L	69286	64	C9H20O4	192



000697

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020627.B\S1D0577.D

Date : 27-AUG-2002 18:07

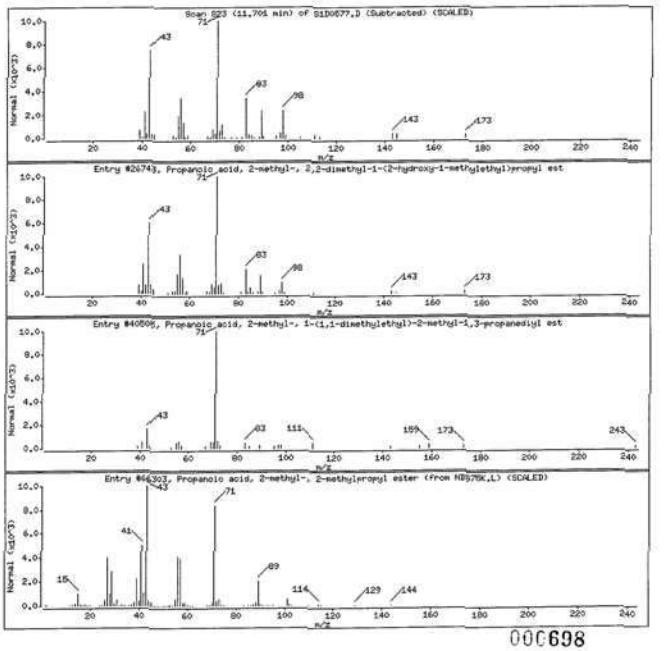
Client ID: MW-35 Instrument: s1.i

Sample Info: A1243-11F,MW-35,50821-BW1,SH,,A1243

Volume Injected (uL): 1.0 Operator: SH

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Propanoic acid, 2-methyl-, 2,2-dimethyl-	74367-33-2	NBS75K.L	26743	64	C12H24O3	216
Propanoic acid, 2-methyl-, 1-(1,1-dimeth	74381-40-1	NBS75K.L	40606	43	C16H30O4	286
Propanoic acid, 2-methyl-, 2-methylpropy	97-85-8	NBS75K.L	66303	42	C8H16O2	144



000698

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020627.B\S1D0577.D

Date : 27-AUG-2002 18:07

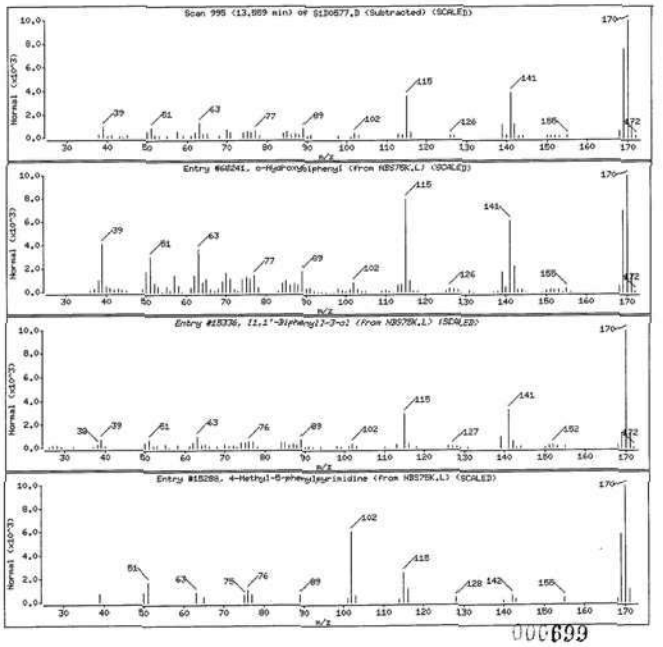
Client ID: MW-35 Instrument: s1.i

Sample Info: A1243-11F,MW-35,50821-BW1,SH,,A1243

Volume Injected (uL): 1.0 Operator: SH

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
o-Hydroxybiphenyl	90-43-7	NBS75K.L	68241	97	C12H10O	170
[1,1'-Biphenyl]-3-ol	580-51-8	NBS75K.L	15336	93	C12H10O	170
4-Methyl-6-phenylpyrimidine	0-00-0	NBS75K.L	15288	83	C11H10N2	170



000699

SEMIVOLATILE ORGANICS 6B
INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Instrument ID: S1 Calibration Date(s): 08/26/02 08/26/02

Calibration Time(s): 1540 2147

LAB FILE ID: RRF10 =S1D0557 RRF20 =S1D0558
RRF50 =S1D0556 RRF80 =S1D0559 RRF120=S1D0560

COMPOUND	RRF10	RRF20	RRF50	RRF80	RRF120	RRF	% RSD	
Phenol	* 2.250		2.064	1.845	1.639			*
bis(2-Chloroethyl)Ether	* 1.846		1.592	1.400	1.233			*
2-Chlorophenol	* 1.660		1.522	1.440	1.351			*
1,3-Dichlorobenzene	* 1.622		1.462	1.380	1.269			*
1,4-Dichlorobenzene	* 1.637		1.465	1.368	1.266			*
1,2-Dichlorobenzene	* 1.515		1.334	1.228	1.095			*
2-Methylphenol	* 1.499		1.354	1.260	1.169			*
2,2'-oxybis(1-Chloropropane)	* 3.010		2.442	2.158	1.958			*
4-Methylphenol	* 1.592		1.349	1.225	1.180			*
N-Nitroso-di-n-propylamine	* 1.174		*0.976*	0.913	*0.892*			*
Hexachloroethane	* 0.793		0.700	0.650	0.585			*
Nitrobenzene	* 0.514		0.436	0.413	0.385			*
Isophorone	* 0.903		0.822	0.794	0.755			*
2-Nitrophenol	* 0.259		0.256	0.248	0.240			*
2,4-Dimethylphenol	* 0.404		0.368	0.355	0.346			*
2,4-Dichlorophenol	* 0.312		0.297	0.288	0.272			*
1,2,4-Trichlorobenzene	* 0.331		0.302	0.294	0.269			*
Naphthalene	* 1.186		1.041	0.979	0.893			*
4-Chloroaniline	* 0.537		0.490	0.473	0.444			*
bis(2-Chloroethoxy)methane	* 0.589		0.493	0.462	0.434			*
Hexachlorobutadiene	* 0.160		0.152	0.150	0.142			*
4-Chloro-3-Methylphenol	* *0.359*		*0.322*	*0.307*	*0.289*			*
2-Methylnaphthalene	* 0.750		0.665	0.623	0.576			*
Hexachlorocyclopentadiene	* 0.327		0.357	0.366	0.352			*
2,4,6-Trichlorophenol	* 0.446		0.435	0.444	0.424			*
2,4,5-Trichlorophenol	*	0.457	0.449	0.443	0.418			*
2-Chloronaphthalene	* 1.197		1.079	1.064	0.999			*
2-Nitroaniline	*	0.521	0.491	0.485	0.471			*
Dimethylphthalate	* 1.632		1.488	1.464	1.324			*
Acenaphthylene	* 2.264		1.951	1.893	1.745			*
2,6-Dinitrotoluene	* 0.393		0.386	0.385	0.357			*
3-Nitroaniline	*	0.501	0.503	0.493	0.451			*
Acenaphthene	* 1.320		1.129	1.117	1.031			*
2,4-Dinitrophenol	*	*0.222*	*0.269*	*0.283*	*0.264*			*
4-Nitrophenol	*	0.195	0.209	0.207	0.199			*
Dibenzofuran	* 1.915		1.654	1.602	1.485			*
2,4-Dinitrotoluene	* 0.502		0.463	0.456	0.416			*

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

000700

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Instrument ID: S1 Calibration Date(s): 08/26/02 08/26/02

Calibration Time(s): 1540 2147

LAB FILE ID: RRF10 =S1D0557 RRF20 =S1D0558
RRF50 =S1D0556 RRF80 =S1D0559 RRF120=S1D0560

COMPOUND	RRF10	RRF20	RRF50	RRF80	RRF120	RRF	% RSD
Diethylphthalate	* 1.689		1.571	1.487	1.350		*
4-Chlorophenyl-phenylether	* 0.668		0.612	0.602	0.538		*
Fluorene	* 1.452		1.278	1.226	1.145		*
4-Nitroaniline	*	0.474	0.476	0.475	0.436		*
4,6-Dinitro-2-methylphenol	*	0.193	0.210	0.212	0.200		*
N-Nitrosodiphenylamine (1)	* 0.590		0.538	0.512	0.478		*
4-Bromophenyl-phenylether	* *0.217*		*0.208*	*0.207*	*0.201*		*
Hexachlorobenzene	* 0.256		0.244	0.234	0.223		*
Pentachlorophenol	*	0.162	0.173	0.170	0.164		*
Phenanthrene	* 1.246		1.070	1.002	0.919		*
Anthracene	* 1.258		1.083	1.010	0.938		*
Carbazole	*	1.135	1.050	0.990	0.909		*
Di-n-butylphthalate	* 1.846		1.632	1.515	1.388		*
Fluoranthene	* 1.299		1.174	1.113	1.009		*
Pyrene	* 1.710		1.543	1.535	1.465		*
Butylbenzylphthalate	* 1.031		1.029	1.020	0.974		*
3,3'-Dichlorobenzidine	* 0.430		0.464	0.465	0.455		*
Benzo(a)anthracene	* 1.386		1.309	1.276	1.222		*
Chrysene	* 1.317		1.242	1.170	1.104		*
bis(2-Ethylhexyl)phthalate	* 1.331		1.344	1.306	1.275		*
Di-n-octylphthalate	* 2.781		3.085	3.023	3.140		*
Benzo(b)fluoranthene	* 1.478		1.577	1.631	1.581		*
Benzo(k)fluoranthene	* 1.858		1.618	1.578	1.665		*
Benzo(a)pyrene	* 1.449		1.465	1.455	1.452		*
Indeno(1,2,3-cd)pyrene	* 1.100		1.377	1.306	1.093		*
Dibenzo(a,h)anthracene	* 1.166		1.293	1.233	1.080		*
Benzo(g,h,i)perylene	* 1.218		1.302	1.174	0.999		*
Nitrobenzene-d5	0.505		0.453	0.437	0.410		*
2-Fluorobiphenyl	* 1.515		1.342	1.298	1.211		*
Terphenyl-d14	* 1.039		1.014	1.001	0.960		*
Phenol-d5	* 2.190		2.013	1.877	1.747		*
2-Fluorophenol	* 1.708		1.642	1.537	1.479		*
2,4,6-Tribromophenol	* 0.133		0.138	0.140	0.136		*
2-Chlorophenol-d4	* 1.711		1.619	1.520	1.425		*
1,2-Dichlorobenzene-d4	* 0.974		0.843	0.792	0.738		*

(1) Cannot be seperated from Diphenylamine
* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM VI SV-2

000701

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Instrument ID: S1 Calibration Date(s): 08/26/02 08/26/02

Calibration Time(s): 1540 2147

LAB FILE ID: RRF160=S1D0561

COMPOUND	RRF160	RRF	% RSD
Phenol	* 1.490	1.858	16.6*
bis(2-Chloroethyl)Ether	* 1.158	1.446	19.3*
2-Chlorophenol	* 1.295	1.454	9.9*
1,3-Dichlorobenzene	* 1.216	1.390	11.6*
1,4-Dichlorobenzene	* 1.209	1.389	12.2*
1,2-Dichlorobenzene	* 1.002	1.235	16.3*
2-Methylphenol	* *1.217*	*1.280*	*11.9**
2,2'-oxybis(1-Chloropropane)	* 1.823	2.278	20.7*
4-Methylphenol	* 1.057	1.281	15.9*
N-Nitroso-di-n-propylamine	* 0.867	0.964	12.8*
Hexachloroethane	* 0.554	0.656	14.5*
Nitrobenzene	* 0.360	0.422	14.0*
Isophorone	* 0.746	0.804	7.9*
2-Nitrophenol	* 0.230	0.247	4.8*
2,4-Dimethylphenol	* 0.342	0.363	6.9*
2,4-Dichlorophenol	* 0.265	0.287	6.6*
1,2,4-Trichlorobenzene	* 0.262	0.292	9.5*
Naphthalene	* 0.858	0.991	13.2*
4-Chloroaniline	* 0.425	0.474	9.2*
bis(2-Chloroethoxy)methane	* 0.420	0.480	14.0*
Hexachlorobutadiene	* 0.137	0.148	5.9*
4-Chloro-3-Methylphenol	* 0.278	0.311	10.1*
2-Methylnaphthalene	* 0.561	0.635	12.0*
Hexachlorocyclopentadiene	* 0.352	0.351	4.1*
2,4,6-Trichlorophenol	* 0.433	0.436	2.0*
2,4,5-Trichlorophenol	* 0.406	0.435	4.9*
2-Chloronaphthalene	* 0.983	1.064	8.0*
2-Nitroaniline	* 0.469	0.487	4.3*
Dimethylphthalate	* 1.311	1.444	9.2*
Acenaphthylene	* 1.736	1.918	11.2*
2,6-Dinitrotoluene	* 0.358	0.376	4.4*
3-Nitroaniline	* 0.430	0.476	6.9*
Acenaphthene	* 1.024	1.124	10.6*
2,4-Dinitrophenol	* 0.258	0.259	8.7*
4-Nitrophenol	* 0.190	0.200	4.1*
Dibenzofuran	* 1.477	1.627	11.0*
2,4-Dinitrotoluene	* 0.412	0.450	8.3*

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM VI SV-3

000702

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Instrument ID: S1 Calibration Date(s): 08/26/02 08/26/02

Calibration Time(s): 1540 2147

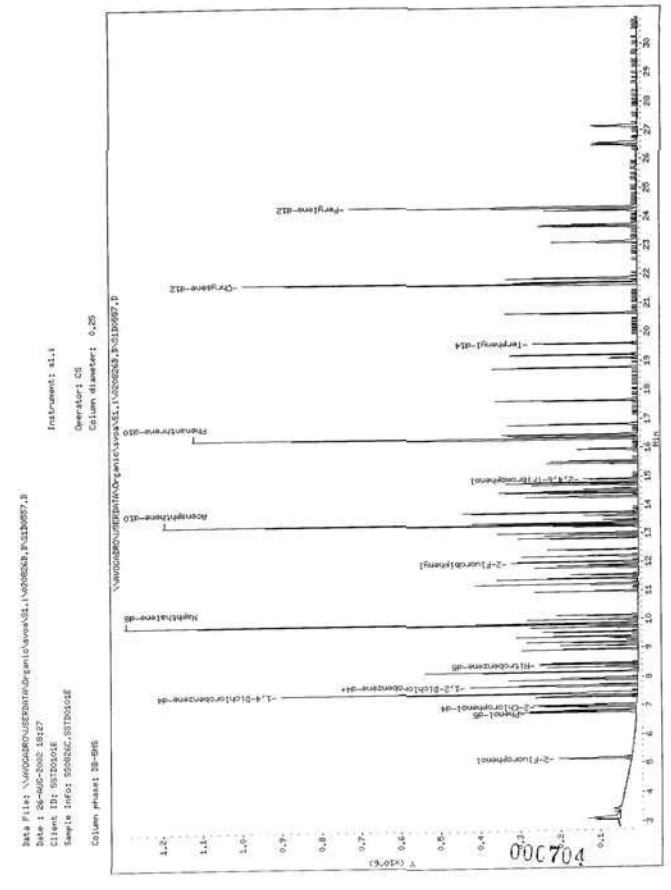
LAB FILE ID: RRF160=S1D0561

COMPOUND	RRF160	RRF	% RSD
Diethylphthalate	* 1.334	1.486	10.1*
4-Chlorophenyl-phenylether	* 0.536	0.591	9.4*
Fluorene	* 1.125	1.245	10.5*
4-Nitroaniline	* 0.430	0.458	5.1*
4,6-Dinitro-2-methylphenol	* 0.198	0.203	4.0*
N-Nitrosodiphenylamine (1)	* 0.473	0.518	9.3*
4-Bromophenyl-phenylether	* 0.194	0.205	4.0*
Hexachlorobenzene	* 0.221	0.236	6.4*
Pentachlorophenol	* 0.164	0.167	2.8*
Phenanthrene	* 0.914	1.030	13.3*
Anthracene	* 0.917	1.041	13.2*
Carbazole	* 0.884	0.994	10.3*
Di-n-butylphthalate	* 1.361	1.548	12.8*
Fluoranthene	* 0.984	1.116	11.5*
Pyrene	* 1.519	1.554	5.9*
Butylbenzylphthalate	* 1.006	1.012	2.3*
3,3'-Dichlorobenzidine	* 0.457	0.454	3.2*
Benzo(a)anthracene	* 1.227	1.284	5.2*
Chrysene	* 1.132	1.193	7.2*
bis(2-Ethylhexyl)phthalate	* 1.305	1.312	2.1*
Di-n-octylphthalate	* 3.229	3.052	5.5*
Benzo(b)fluoranthene	* 1.721	1.598	5.5*
Benzo(k)fluoranthene	* 1.412	1.626	9.9*
Benzo(a)pyrene	* 1.460	1.456	0.4*
Indeno(1,2,3-cd)pyrene	* 1.132	1.202	10.9*
Dibenzo(a,h)anthracene	* 1.079	1.170	8.1*
Benzo(g,h,i)perylene	* 1.008	1.140	11.7*
Nitrobenzene-d5	0.396	0.440	9.7*
2-Fluorobiphenyl	* 1.185	1.310	10.0*
Terphenyl-d14	* 1.006	1.004	2.9*
Phenol-d5	* 1.644	1.894	11.4*
2-Fluorophenol	* 1.395	1.552	8.1*
2,4,6-Tribromophenol	* 0.134	0.136	2.2*
2-Chlorophenol-d4	* 1.358	1.527	9.3*
1,2-Dichlorobenzene-d4	* 0.710	0.811	12.9*

(1) Cannot be seperated from Diphenylamine
* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM VI SV-4

000703



000704

Data File: S1D0557.D
Report Date: 28-Aug-2002 09:28

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020826B.B\S1D0557.D
Lab Smp Id: SS0826C Client Smp ID: SSTD0101E
Inj Date : 26-AUG-2002 18:27
Operator : CS Inst ID: s1.i
Smp Info : SS0826C,SSTD0101E
Misc Info : 1,1,SSTD010,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020826B.B\S1_8270C.m
Meth Date : 27-Aug-2002 10:07 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 18:27 Cal File: S1D0557.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270_ALL.sub
Target Version: 4.03
Processing Host: TARGET2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	1 N-Nitrosodimethylamine	74	3.071	3.072 (0.413)	570891	10.0000		10
	2 Pyridine	*79*	*3.224*	*3.215 (0.400)*	*3089492*	*20.0000*		*33*
S	3 2-Fluorophenol	112	5.177	5.178 (0.694)	1099317	10.0000		11
S	5 Phenol-d5	99	6.775	6.787 (0.911)	1409777	10.0000		12
	6 Phenol	94	6.787	6.820 (0.914)	1447888	10.0000		12(H)
	7 Aniline	93	6.848	6.852 (0.920)	1651557	10.0000		12
	8 bis(2-Chloroethyl)Ether	93	6.870	6.882 (0.938)	1187789	10.0000		13
S	9 2-Chlorophenol-d4	132	7.013	7.014 (0.943)	1108134	10.0000		11
	10 2-Chlorophenol	128	7.035	7.047 (0.946)	1068315	10.0000		11
	11 1,3-Dichlorobenzene	146	7.315	7.328 (0.984)	1044117	10.0000		12
*	12 1,4-Dichlorobenzene-d4	152	7.434	7.434 (1.000)	2574157	40.0000		
	13 1,4-Dichlorobenzene	146	7.456	7.468 (1.003)	1055467	10.0000		12
	15 Benzyl Alcohol	108	7.683	7.706 (1.033)	703211	10.0000		13
S	14 1,2-Dichlorobenzene-d4	152	7.704	7.704 (1.036)	627221	10.0000		12
	16 1,2-Dichlorobenzene	146	7.726	7.738 (1.039)	975155	10.0000		12
	17 2-Methylphenol	108	7.899	7.911 (1.062)	964175	10.0000		12
	18 2,2'-oxybis(1-Chloropropane)	45	7.943	7.976 (1.071)	1937566	10.0000		13
	20 4-Methylphenol	108	8.130	8.213 (1.103)	1024381	10.0000		12
	19 N-Nitroso-di-n-propylamine	70	8.190	8.214 (1.103)	755545	10.0000		12
	21 Hexachloroethane	117	8.352	8.354 (1.123)	510439	10.0000		12
S	22 Nitrobenzene-d5	82	8.450	8.462 (0.859)	1170411	10.0000		13
	23 Nitrobenzene	77	8.482	8.505 (0.863)	1193139	10.0000		12
	24 Isophorone	82	8.937	8.980 (0.911)	2099376	10.0000		13
	25 2-Nitrophenol	139	9.098	9.110 (0.925)	680460	10.0000		10
	26 2,4-Dimethylphenol	107	9.216	9.229 (0.937)	934413	10.0000		11
	28 Benzoic Acid	105	9.368	9.509 (0.953)	578931	10.0000		9

Data File: S1D0557.D
Report Date: 28-Aug-2002 09:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	27 bis(2-Chloroethoxy)methane	93	9.411	9.423 (0.957)	1364390	10.0000		12
	29 2,4-Dichlorophenol	162	9.562	9.574 (0.973)	723488	10.0000		11
	30 1,2,4-Trichlorobenzene	180	9.724	9.736 (0.989)	767531	10.0000		11
*	31 Naphthalene-d8	136	9.832	9.834 (1.000)	9268844	40.0000		
	32 Naphthalene	128	9.865	9.877 (1.003)	2749461	10.0000		12
	33 4-Chloroaniline	127	9.994	10.006 (1.016)	1244462	10.0000		11
	34 Hexachlorobutadiene	225	10.145	10.147 (1.032)	370B7	10.0000		11
	35 4-Chloro-3-Methylphenol	107	10.977	10.989 (1.116)	83002	10.0000		11
	36 2-Methylnaphthalene	142	11.247	11.259 (1.144)	1738S1	10.0000		13
	37 1-Methylnaphthalene	142	11.449	11.449 (1.164)	1572A5	10.0000		12
	38 Hexachlorocyclopentadiene	237	11.571	11.573 (0.868)	35565	10.0000		9
	39 2,4,6-Trichlorophenol	196	11.820	11.832 (0.887)	49029	10.0000		10
	40 2,4,5-Trichlorophenol	196	11.884	11.886 (0.891)	51494	10.0000		11
S	41 2-Fluorobiphenyl	172	12.014	12.015 (0.901)	1665O0	10.0000		12
	42 2-Chloronaphthalene	162	12.209	12.221 (0.916)	1315A0	10.0000		11
	43 2-Nitroaniline	65	12.435	12.447 (0.933)	57627	10.0000		11
	44 Dimethylphthalate	163	12.857	12.885 (0.964)	179228	10.0000		11
	45 2,6-Dinitrotoluene	165	12.958	12.977 (0.972)	43152	10.0000		10
	46 Acenaphthylene	152	13.040	13.052 (0.978)	248822	10.0000		12
	47 3-Nitroaniline	138	13.247	13.290 (0.995)	54761	10.0000		10
*	48 Acenaphthene-d10	164	13.332	13.333 (1.000)	639517	40.0000		
	49 Acenaphthene	153	13.397	13.409 (1.005)	145067	10.0000		13
	50 2,4-Dinitrophenol	184	13.483	13.506 (1.011)	19072	10.0000		7
	51 4-Nitrophenol	109	13.634	13.668 (1.023)	19032	10.0000		9
	53 2,4-Dinitrotoluene	165	13.753	13.778 (1.032)	55221	10.0000		11
	52 Dibenzofuran	168	13.762	13.774 (1.031)	210420	10.0000		12
	54 Diethylphthalate	149	14.306	14.314 (1.073)	185576	10.0000		11
	56 4-Chlorophenyl-phenylether	204	14.477	14.489 (1.086)	73427	10.0000		11
	55 Fluorene	166	14.434	14.446 (1.083)	159584	10.0000		13
	57 4-Nitroaniline	138	14.489	14.533 (1.087)	51032	10.0000		10
	58 4,6-Dinitro-2-methylphenol	198	14.574	14.597 (0.933)	32159	10.0000		9
	59 N-Nitrosodiphenylamine	169	14.714	14.733 (0.941)	103493	10.0000		11
S	60 2,4,6-Tribromophenol	330	14.910	14.932 (0.954)	23337	10.0000		10
	61 4-Bromophenyl-phenylether	248	15.460	15.473 (0.947)	37998	10.0000		10
	62 Hexachlorobenzene	284	15.535	15.547 (0.952)	44382	10.0000		11
	63 Pentachlorophenol	266	15.946	15.958 (0.977)	26546	10.0000		9
*	64 Phenanthrene-d10	188	16.324	16.334 (1.000)	701271	40.0000		
	65 Phenanthrene	178	16.367	16.379 (1.003)	219509	10.0000		12
	66 Anthracene	178	16.475	16.487 (1.009)	220605	10.0000		12
	67 Carbazole	167	16.921	16.933 (1.036)	208576	10.0000		12
	68 Di-n-butylphthalate	149	17.831	17.843 (1.092)	335622	10.0000		13
	69 Fluoranthene	202	18.765	18.788 (1.150)	237728	10.0000		12
	70 Pyrene	202	19.019	19.231 (0.847)	238699	10.0000		11
S	71 Terphenyl-d14	244	19.608	19.620 (0.905)	158908	10.0000		10
	72 Butylbenzylphthalate	149	20.655	20.667 (0.953)	137801	10.0000		10
	74 3,3'-Dichlorobenzidine	252	21.649	21.661 (0.999)	57427	10.0000		10
	75 Benzo(a)Anthracene	228	21.649	21.661 (0.999)	195340	10.0000		11

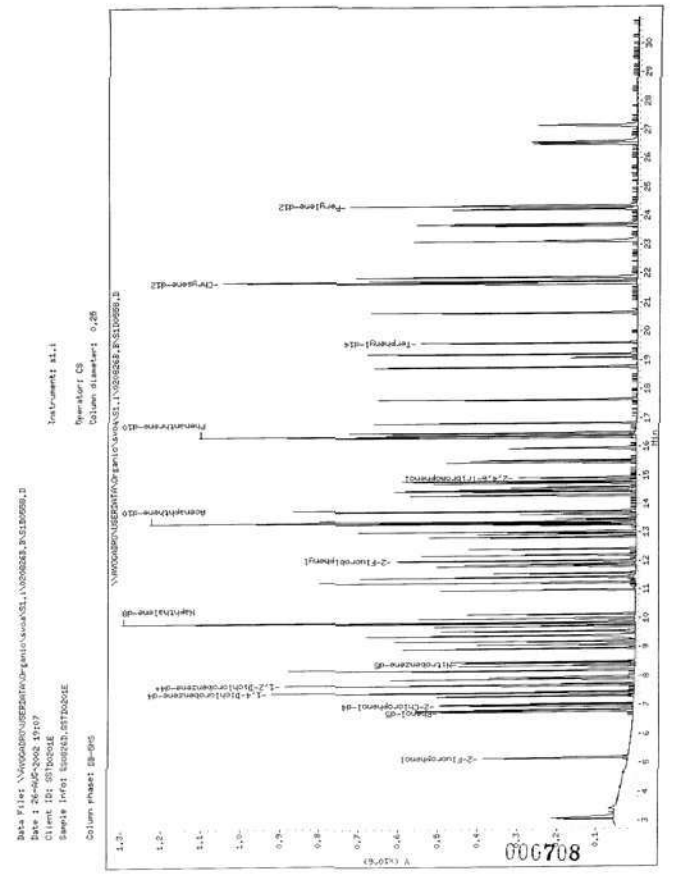
Data File: S1D0557.D
Report Date: 28-Aug-2002 09:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	76 Chrysene-d12	240	21.671	21.683 (1.000)	534816	40.0000		
	78 bis(2-Ethylhexyl)phthalate	149	21.865	21.866 (1.009)	177986	10.0000		10
	77 Chrysene	228	21.716	21.737 (1.002)	176119	10.0000		11
	79 Di-n-octylphthalate	149	23.119	23.119 (0.950)	279997	10.0000		9
	80 Benzo(b)fluoranthene	252	23.669	23.692 (0.972)	145433	10.0000		9
	81 Benzo(k)fluoranthene	252	23.723	23.746 (0.975)	182993	10.0000		11
	82 Benzo(a)pyrene	252	24.233	24.253 (0.996)	142770	10.0000		10
*	83 Perylene-d12	264	24.339	24.351 (1.000)	994059	40.0000		
	73 Benzidine	184	19.089	19.101 (2.568)	57860	10.0000		12
	84 Indeno(1,2,3-cd)pyrene	276	26.499	26.533 (1.089)	108397	10.0000		9
	85 Dibenzo(a,h)anthracene	278	26.564	26.597 (1.091)	114833	10.0000		10
	86 Benzo(g,h,i)perylene	276	27.136	27.191 (1.115)	130048	10.0000		11

QC Flag Legend

H - Operator selected an alternate compound hit.

Jews 8/28/02



Data File: S1D0558.D
Report Date: 28-Aug-2002 09:28

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020826B.B\S1D0558.D
Lab Smp Id: SS0826D Client Smp ID: SSTD0201E
Inj Date : 26-AUG-2002 19:07
Operator : CS Inst ID: s1.i
Smp Info : SS0826D,SSTD0201E
Misc Info : 1,2,SSTD020,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020826B.B\S1_8270C.m
Meth Date : 27-Aug-2002 10:07 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 19:07 Cal File: S1D0558.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270_ALL.sub
Target Version: 4.03
Processing Host: TARGET2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	
	1 N-Nitrosodimethylamine	74	3.071	3.073	(0.413)	123215	20.0000	21	
	2 Pyridine	79	3.116	3.115	(0.419)	218453	20.0000	21	
$	3 2-Fluorophenol	112	5.177	5.178	(0.696)	315092	20.0000	21	
$	5 Phenol-d5	99	6.776	6.787	(0.911)	277734	20.0000	22	
	6 Phenol	94	6.797	6.820	(0.914)	285491	20.0000	23	(H)
	7 Aniline	93	6.860	6.852	(0.920)	327694	20.0000	24	
	8 bis(2-Chloroethyl)Ether	93	6.981	6.982	(0.935)	251783	20.0000	24	
$	9 2-Chlorophenol-d4	132	7.013	7.014	(0.943)	219158	20.0000	23	
	10 *2-Chlorophenol*	*128*	*7.046*	*7.047*	*(0.946)*	*212518*	*20.0000*	*22*	
	11 1,3-Dichlorobenzene	146	7.326	7.326	(0.985)	205058	20.0000	22	
*	12 1,4-Dichlorobenzene-d4	152	7.434	7.434	(1.000)	362934	40.0000		
	13 1,4-Dichlorobenzene	146	7.456	7.464	(1.003)	203228	20.0000	23	
	15 Benzyl Alcohol	108	7.694	7.706	(1.035)	136763	20.0000	24	
$	14 1,2-Dichlorobenzene-d4	152	7.705	7.706	(1.036)	123231	20.0000	23	
	16 1,2-Dichlorobenzene	146	7.726	7.736	(1.039)	190396	20.0000	23	
	17 2-Methylphenol	108	7.899	7.911	(1.062)	192703	20.0000	23	
	18 2,2'-oxybis(1-Chloropropane)	45	7.964	7.976	(1.071)	370403	20.0000	25	
	20 4-Methylphenol	108	8.191	8.213	(1.102)	197321	20.0000	23	
	19 N-Nitroso-di-n-propylamine	70	8.201	8.234	(1.103)	143130	20.0000	23	
	21 Hexachloroethane	117	8.353	8.354	(1.123)	99725	20.0000	23	
$	22 Nitrobenzene-d5	82	8.450	8.462	(0.859)	230847	20.0000	22	
	23 Nitrobenzene	77	8.493	8.505	(0.864)	227956	20.0000	23	
	24 Isophorone	82	8.957	8.960	(0.911)	416891	20.0000	26	
	25 2-Nitrophenol	139	9.098	9.110	(0.925)	139449	20.0000	21	
	26 2,4-Dimethylphenol	107	9.217	9.234	(0.937)	186455	20.0000	22	
	28 Benzoic Acid	105	9.411	9.509	(0.957)	132934	20.0000	21	

000709

Data File: S1D0558.D
Report Date: 28-Aug-2002 09:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	
	27 bis(2-Chloroethoxy)methane	93	9.411	9.423	(0.957)	262338	20.0000	23	
	29 2,4-Dichlorophenol	162	9.562	9.574	(0.973)	165926	20.0000	22	
	30 1,2,4-Trichlorobenzene	180	9.724	9.736	(0.988)	152195	20.0000	22	
*	31 Naphthalene-d8	136	9.832	9.834	(1.000)	937011	40.0000		
	32 Naphthalene	128	9.865	9.877	(1.003)	537718	20.0000	23	
	33 4-Chloroaniline	127	9.994	10.006	(1.016)	250628	20.0000	23	
	34 Hexachlorobutadiene	225	10.135	10.147	(1.031)	74638	20.0000	21	
	35 4-Chloro-3-Methylphenol	*107*	*10.977*	*10.989*	*(1.116)*	*164618*	*20.0000*	*22*	
	36 2-Methylnaphthalene	142	11.247	11.259	(1.144)	364480	20.0000	23	
	37 1-Methylnapthalene	142	11.442	11.443	(1.164)	306412	20.0000	22	
	38 Hexachlorocyclopentadiene	237	11.571	11.571	(0.868)	76994	20.0000	20	
	39 2,4,6-Trichlorophenol	196	11.820	11.832	(0.887)	98477	20.0000	20	
	40 2,4,5-Trichlorophenol	196	11.885	11.886	(0.891)	101429	20.0000	21	
$	41 2-Fluorobiphenyl	172	12.014	12.015	(0.901)	329159	20.0000	22	
	42 2-Chloronaphthalene	*162*	*12.209*	*12.221*	*(0.916)*	*260993*	*20.0000*	*22*	
	43 2-Nitroaniline	65	12.436	12.447	(0.933)	115847	20.0000	21	
	44 Dimethylphthalate	163	12.857	12.880	(0.964)	350192	20.0000	22	
	45 2,6-Dinitrotoluene	165	12.965	12.977	(0.972)	89001	20.0000	21	
	46 Acenaphthylene	152	13.040	13.052	(0.978)	487725	20.0000	23	
	47 3-Nitroaniline	138	13.278	13.290	(0.996)	111444	20.0000	21	
*	48 Acenaphthene-d10	164	13.332	13.333	(1.000)	445047	40.0000		
	49 Acenaphthene	153	13.397	13.409	(1.005)	285675	20.0000	23	
	50 2,4-Dinitrophenol	184	13.494	13.506	(1.012)	48511	20.0000	17	
	51 4-Nitrophenol	109	13.645	13.668	(1.023)	43497	20.0000	20	
	53 2,4-Dinitrotoluene	165	13.764	13.776	(1.032)	109043	20.0000	22	
	52 Dibenzofuran	168	13.753	13.754	(1.032)	407385	20.0000	22	
	54 Diethylphthalate	149	14.304	14.316	(1.073)	372218	20.0000	22	
	56 4-Chlorophenyl-phenylether	204	14.477	14.489	(1.086)	144949	20.0000	23	
	55 Fluorene	166	14.424	14.448	(1.083)	315841	20.0000	23	
	57 4-Nitroaniline	138	14.499	14.532	(1.089)	105381	20.0000	21	
	58 4,6-Dinitro-2-methylphenol	198	14.574	14.597	(0.933)	70438	20.0000	19	
	59 N-Nitrosodiphenylamine	169	14.725	14.737	(0.902)	205833	20.0000	22	
$	60 2,4,6-Tribromophenol	330	14.920	14.932	(0.914)	48214	20.0000	19	
	61 4-Bromophenyl-phenylether	248	15.460	15.472	(0.947)	78759	20.0000	21	
	62 Hexachlorobenzene	284	15.536	15.547	(0.952)	91623	20.0000	21	
	63 Pentachlorophenol	266	15.948	15.958	(0.977)	59081	20.0000	19	
*	64 Phenanthrene-d10	188	16.324	16.336	(1.000)	729676	40.0000		
	65 Phenanthrene	178	16.367	16.379	(1.003)	422333	20.0000	23	
	66 Anthracene	178	16.475	16.487	(1.009)	436142	20.0000	23	
	67 Carbazole	167	16.821	16.833	(1.030)	614123	20.0000	23	
	68 Di-n-butylphthalate	149	17.642	17.643	(1.081)	645289	20.0000	23	
	69 Fluoranthene	202	18.765	18.788	(1.150)	457442	20.0000	22	
	70 Pyrene	202	19.219	19.231	(0.986)	631044	20.0000	21	
$	71 Terphenyl-d14	244	19.608	19.620	(0.904)	260070	20.0000	20	
	72 Butylbenzylphthalate	149	20.655	20.667	(0.953)	284285	20.0000	20	
	74 3,3'-Dichlorobenzidine	252	21.649	21.661	(0.999)	119240	20.0000	19	
	75 Benzo(a)anthracene	228	21.649	21.661	(0.999)	367949	20.0000	21	

000710

Data File: S1D0558.D
Report Date: 28-Aug-2002 09:28

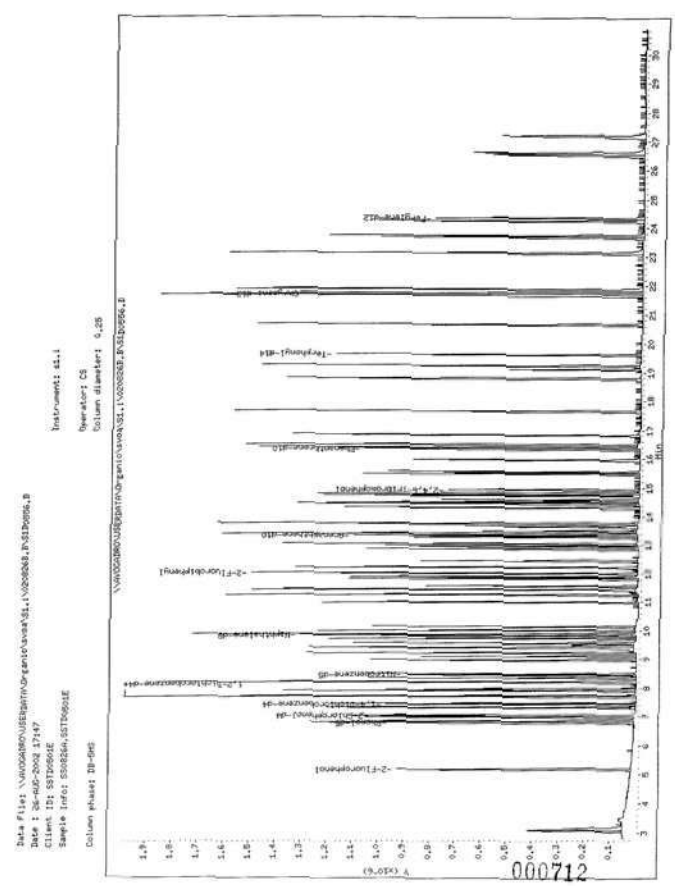
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	
*	76 Chrysene-d12	240	21.682	21.683	(1.000)	554060	40.0000		
	78 bis(2-Ethylhexyl)phthalate	149	21.865	21.864	(1.008)	370878	20.0000	20	
	77 Chrysene	228	22.735	22.737	*(1.002)*	357588	*20.0000*	*22*	
	79 Di-n-octylphthalate	149	23.118	23.119	(0.950)	404256	20.0000	19	
	80 Benzo(b)fluoranthene	252	23.649	23.693	(0.972)	319633	20.0000	20	
	81 Benzo(k)fluoranthene	252	23.723	23.746	(0.975)	350674	20.0000	21	
	82 Benzo(a)pyrene	252	24.231	24.253	(0.996)	297016	20.0000	20	
*	83 Perylene-d12	264	24.339	24.351	(1.000)	433247	40.0000		
	73 Benzidine	184	19.089	19.101	(2.568)	119100	20.0000	23	
	84 Indeno(1,2,3-cd)pyrene	276	26.520	26.533	(1.089)	247974	20.0000	20	
	85 Dibenzo(a,h)anthracene	278	26.575	26.597	(1.092)	253354	20.0000	21	
	86 Benzo(g,h,i)perylene	276	27.158	27.191	(1.116)	240466	20.0000	23	

QC Flag Legend

H - Operator selected an alternate compound hit.

8/28/02

000711



000712

Data File: S1D0556.D
Report Date: 28-Aug-2002 09:27

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020826B.B\S1D0556.D
Lab Smp Id: SS0826A Client Smp ID: SSTD0501E
Inj Date : 26-AUG-2002 17:47
Operator : CS Inst ID: s1.i
Smp Info : SS0826A,SSTD0501E
Misc Info : 1,3,SSTD050,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020826B.B\S1_8270C.m
Meth Date : 27-Aug-2002 10:07 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 17:47 Cal File: S1D0556.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270_ALL.sub
Target Version: 4.03
Processing Host: TARGET2

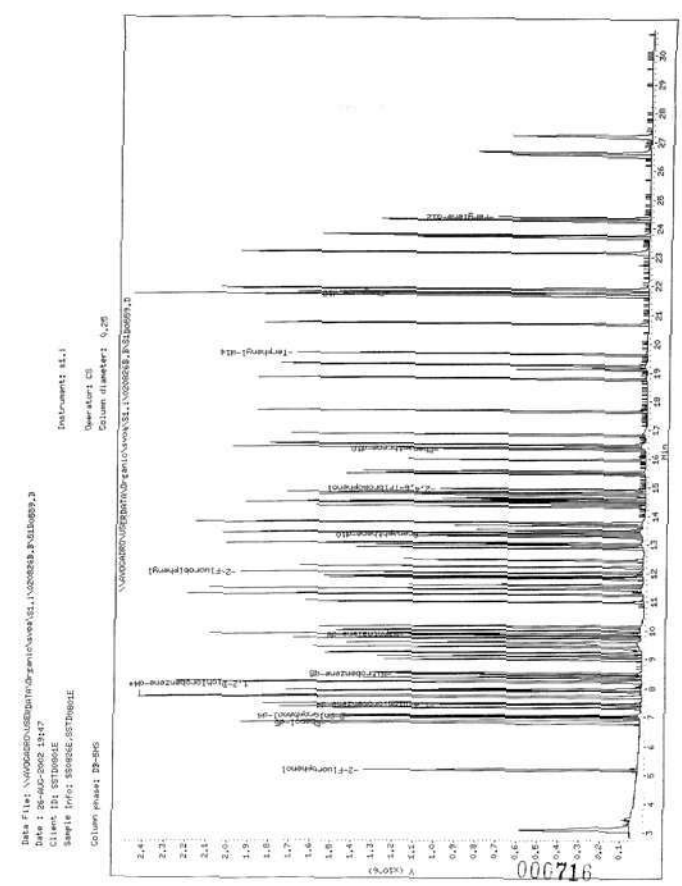
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	1 N-Nitrosodimethylamine	74	3.072	3.072	(0.413)	326787	50.0000	57
	2 Pyridine	*79*	*3.115*	*3.115*	*(0.419)*	*947230*	*50.0000*	*54*
$	3 2-Fluorophenol	112	5.178	5.178	(0.696)	540255	50.0000	54
$	5 Phenol-d5	99	6.787	6.787	(0.913)	686898	50.0000	55
	6 Phenol	94	6.820	6.820	(0.917)	704399	50.0000	57
	7 Aniline	93	6.852	6.852	(0.922)	776513	50.0000	54
	8 bis(2-Chloroethyl)Ether	93	6.982	6.982	(0.938)	543208	50.0000	54
$	9 2-Chlorophenol-d4	132	7.014	7.014	(0.943)	552642	50.0000	57
	10 2-Chlorophenol	128	7.047	7.047	*(0.948)*	*823940*	*50.0000*	*64*
	11 1,3-Dichlorobenzene	146	7.328	7.328	(0.985)	499116	50.0000	57
*	12 1,4-Dichlorobenzene-d4	152	7.436	7.436	(1.000)	273012	40.0000	
	13 1,4-Dichlorobenzene	146	7.468	7.468	(1.004)	499846	50.0000	58
	15 Benzyl Alcohol	108	7.704	7.704	(1.036)	321658	50.0000	72
$	14 1,2-Dichlorobenzene-d4	152	7.706	7.706	(1.036)	287649	50.0000	57
	16 1,2-Dichlorobenzene	146	7.738	7.738	(1.041)	455139	50.0000	62
	17 2-Methylphenol	108	7.911	7.911	(1.064)	462232	50.0000	54
	18 2,2'-oxybis(1-Chloropropane)	45	7.976	7.976	(1.073)	833257	50.0000	59
	20 4-Methylphenol	108	8.213	8.213	(1.105)	460476	50.0000	85
	19 N-Nitroso-di-n-propylamine	70	8.224	8.224	(1.106)	533263	50.0000	54
	21 Hexachloroethane	117	8.354	8.354	(1.123)	238758	50.0000	59
$	22 Nitrobenzene-d5	82	8.462	8.462	(0.860)	543704	50.0000	53
	23 Nitrobenzene	77	8.505	8.505	(0.865)	528118	50.0000	55
	24 Isophorone	82	8.980	8.980	(0.913)	996032	50.0000	84
	25 2-Nitrophenol	139	9.110	9.110	(0.926)	310112	50.0000	53
	26 2,4-Dimethylphenol	107	9.229	9.229	(0.938)	446038	50.0000	51
	28 Benzoic Acid	105	9.509	9.509	(0.967)	385911	50.0000	66

Data File: S1D0556.D
Report Date: 28-Aug-2002 09:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	27 bis(2-Chloroethoxy)methane	93	9.423	9.423	(0.958)	597936	50.0000	51
	29 2,4-Dichlorophenol	162	9.574	9.574	(0.974)	360686	50.0000	52
	30 1,2,4-Trichlorobenzene	180	9.736	9.736	(0.990)	366424	50.0000	55
*	31 Naphthalene-d8	136	9.834	9.834	(1.000)	969940	40.0000	
	32 Naphthalene	128	9.877	9.877	(1.004)	1262317	50.0000	58
	33 4-Chloroaniline	127	10.006	10.006	(1.018)	534746	50.0000	55
	34 Hexachlorobutadiene	225	10.147	10.147	(1.032)	183715	50.0000	56
	35 4-Chloro-3-Methylphenol	107	10.988	10.988	(1.118)	390653	50.0000	62
	36 2-Methylnaphthalene	142	11.358	11.359	(1.145)	804675	50.0000	57
	37 1-Methylnaphthalene	142	11.445	11.445	(1.164)	733485	50.0000	57
	38 Hexachlorocyclopentadiene	237	11.573	11.573	(0.968)	205220	50.0000	50
	39 2,4,6-Trichlorophenol	196	11.832	11.832	(0.887)	248737	50.0000	50
	40 2,4,5-Trichlorophenol	196	11.886	11.886	(0.891)	257910	50.0000	58
$	43 2-Fluorobiphenyl	172	12.015	12.015	(0.901)	770746	50.0000	57
	42 2-Chloronaphthalene	*162*	*12.221*	*12.221*	*(0.917)*	*620027*	*50.0000*	*55*
	45 2-Nitroaniline	65	12.447	12.447	(0.934)	282062	50.0000	53
	44 Dimethylphthalate	163	12.880	12.880	(0.966)	855031	50.0000	57
	45 2,6-Dinitrotoluene	165	12.977	12.977	(0.973)	221480	50.0000	54
	46 Acenaphthylene	152	13.053	13.053	(0.978)	1121104	50.0000	56
	47 3-Nitroaniline	138	13.290	13.290	(0.997)	289236	50.0000	57
*	48 Acenaphthene-d10	164	13.333	13.333	(1.000)	459590	40.0000	
	49 Acenaphthene	*153*	*13.409*	*13.409*	*(1.006)*	*888753*	*50.0000*	*58*
	50 2,4-Dinitrophenol	184	13.506	13.506	(1.013)	154309	50.0000	54
	51 4-Nitrophenol	109	13.668	13.668	(1.025)	120156	50.0000	58
	53 2,4-Dinitrotoluene	165	13.776	13.776	(1.033)	245770	50.0000	57
	52 Dibenzofuran	168	13.754	13.754	(1.032)	950135	50.0000	56
	54 Diethylphthalate	149	14.316	14.316	(1.074)	902396	50.0000	59
	56 4-Chlorophenyl-phenylether	204	14.489	14.489	(1.087)	351624	50.0000	60
	55 Fluorene	166	14.446	14.446	(1.083)	754380	50.0000	56
	57 4-Nitroaniline	138	14.532	14.532	(1.090)	272647	50.0000	55
	58 4,6-Dinitro-2-methylphenol	198	14.597	14.597	(0.894)	195283	50.0000	46
	59 N-Nitrosodiphenylamine	169	14.737	14.737	(0.902)	500563	50.0000	50
$	60 2,4,6-Tribromophenol	330	14.932	14.932	(0.914)	128880	50.0000	40
	61 4-Bromophenyl-phenylether	248	15.472	15.472	(0.947)	193802	50.0000	29
	62 Hexachlorobenzene	284	15.547	15.547	(0.952)	237339	50.0000	48
	63 Pentachlorophenol	266	15.958	15.958	(0.977)	161244	50.0000	54
*	64 Phenanthrene-d10	188	16.336	16.336	(1.000)	744483	40.0000	
	65 Phenanthrene	178	16.379	16.379	(1.003)	995840	50.0000	89
	66 Anthracene	178	16.487	16.487	(1.009)	1008286	50.0000	88
	67 Carbazole	167	16.833	16.833	(1.030)	976486	50.0000	50
	68 Di-n-butylphthalate	149	17.643	17.643	(1.080)	1519016	50.0000	50
	69 Fluoranthene	202	18.788	18.788	(1.150)	1092098	50.0000	50
	70 Pyrene	202	19.231	19.231	(0.897)	1050896	50.0000	50
$	71 Terphenyl-d14	244	19.620	19.620	(0.915)	690703	50.0000	56
	72 Butylbenzylphthalate	149	20.667	20.667	(0.953)	701158	50.0000	50
	74 3,3'-Dichlorobenzidine	252	21.661	21.661	(0.999)	318115	50.0000	50
	75 Benzo(a)anthracene	228	21.661	21.661	(0.999)	881742	50.0000	50

Data File: S1D0556.D
Report Date: 28-Aug-2002 09:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	76 Chrysene-d12	240	21.683	21.683	(1.000)	944876	40.0000	
	78 bis(2-Ethylhexyl)phthalate	149	21.866	21.866	(1.008)	915730	50.0000	50
	77 Chrysene	228	21.737	21.737	(1.002)	846048	50.0000	50
	79 Di-n-octylphthalate	149	23.119	23.119	(0.949)	1572180	50.0000	50
	80 Benzo(b)fluoranthene	252	23.692	23.692	(0.973)	803602	50.0000	50
	81 Benzo(k)fluoranthene	252	23.746	23.746	(0.975)	824691	50.0000	50
	82 Benzo(a)pyrene	252	24.253	24.253	(0.996)	746365	50.0000	50
*	83 Perylene-d12	264	24.351	24.351	(1.000)	407678	40.0000	
	73 Benzidine	184	19.191	19.191	(2.569)	329522	50.0000	50
	84 Indeno(1,2,3-cd)pyrene	276	26.533	26.533	(1.090)	703804	50.0000	50
	85 Dibenzo(a,h)anthracene	278	26.597	26.597	(1.092)	659130	50.0000	50
	86 Benzo(g,h,i)perylene	276	27.191	27.191	(1.117)	643728	50.0000	50



Data File: S1D0559.D
Report Date: 28-Aug-2002 09:28

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020826B.B\S1D0559.D
Lab Smp Id: SS0826E — Client Smp ID: SSTD0801E
Inj Date : 26-AUG-2002 19:47
Operator : CS — *Inst ID: s1.i*
Smp Info : SS0826E,SSTD0801E
Misc Info : 1,4,SSTD080,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020826B.B\S1_8270C.m
Meth Date : 27-Aug-2002 10:07 mtl — Quant Type: ISTD
Cal Date : 26-AUG-2002 19:47 — Cal File: S1D0559.D
Als bottle: 6 — Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE — Compound Sublist: 8270_ALL.sub
Target Version: 4.03
Processing Host: TARGET2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	1 N-Nitrosodimethylamine	74	3.072	3.072	(0.413)	477912	80.0000	83
	2 Pyridine	79	3.115	3.115	(0.419)	825374	80.0000	80
$	3 2-Fluorophenol	112	5.189	5.178	(0.698)	812365	80.0000	80
$	5 Phenol-d5	99	6.809	6.787	(0.916)	992399	80.0000	78
	6 Phenol	94	6.831	6.820	(0.919)	975240	80.0000	100
	7 Aniline	93	6.853	6.852	(0.922)	1095510	80.0000	75
	8 bis(2-Chloroethyl)Ether	93	6.892	6.882	(0.926)	742921	80.0000	75
$	9 2-Chlorophenol-d4	132	7.025	7.014	(0.945)	803447	80.0000	80
	10 2-Chlorophenol	128	7.058	7.047	(0.949)	761403	80.0000	80
	11 1,3-Dichlorobenzene	146	7.328	7.328	(0.985)	729645	80.0000	79
*	12 1,4-Dichlorobenzene-d4	152	7.436	7.436	(1.000)	364334	40.0000	
	13 1,4-Dichlorobenzene	146	7.468	7.468	(1.004)	723208	80.0000	79
	15 Benzyl Alcohol	108	7.717	7.706	(1.038)	441553	80.0000	82
$	14 1,2-Dichlorobenzene-d4	152	7.706	7.706	(1.036)	418789	80.0000	78
	16 1,2-Dichlorobenzene	146	7.738	7.738	(1.041)	849223	80.0000	80
	17 2-Methylphenol	108	7.922	7.911	(1.065)	666064	80.0000	77
	18 2,2'-oxybis(1-Chloropropane)	45	7.976	7.976	(1.073)	1141140	80.0000	74
	20 4-Methylphenol	108	8.224	8.213	(1.106)	647704	80.0000	83
	19 N-Nitroso-di-n-propylamine	70	8.235	8.224	(1.107)	481891	80.0000	75
	21 Hexachloroethane	117	8.354	8.354	(1.123)	343813	80.0000	79
$	22 Nitrobenzene-d5	82	8.473	8.462	(0.662)	803531	80.0000	78
	23 Nitrobenzene	77	8.516	8.505	(0.666)	759540	80.0000	77
	24 Isophorone	82	8.990	8.980	(0.703)	1468918	80.0000	85
	25 2-Nitrophenol	139	9.118	9.110	(0.926)	455770	80.0000	80
	26 2,4-Dimethylphenol	107	9.229	9.229	(0.938)	652928	80.0000	77
	28 Benzoic Acid	105	9.553	9.509	(0.971)	593074	80.0000	95

000717

Data File: S1D0559.D
Report Date: 28-Aug-2002 09:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	27 bis(2-Chloroethoxy)methane	93	9.434	9.423	(0.959)	849748	80.0000	74
	29 2,4-Dichlorophenol	162	9.585	9.574	(0.975)	529949	80.0000	78
	30 1,2,4-Trichlorobenzene	180	9.736	9.736	(0.990)	540011	80.0000	80
*	31 Naphthalene-d8	136	9.834	9.834	(1.000)	819620	40.0000	
	32 Naphthalene	128	9.888	9.877	(1.005)	1801408	80.0000	79
	33 4-Chloroaniline	127	10.017	10.006	(1.019)	869243	80.0000	79
	34 Hexachlorobutadiene	225	10.147	10.147	(1.032)	376942	80.0000	83
	35 4-Chloro-3-Methylphenol	107	11.000	10.989	(1.119)	565532	80.0000	77
	36 2-Methylnaphthalene	142	11.260	11.259	(1.145)	1145789	80.0000	78
	37 1-Methylnaphthalene	142	11.454	11.443	(1.165)	1038538	80.0000	76
	38 Hexachlorocyclopentadiene	237	11.584	11.573	(0.868)	308724	80.0000	84
	39 2,4,6-Trichlorophenol	196	11.832	11.832	(0.887)	374591	80.0000	80
	40 2,4,5-Trichlorophenol	196	11.897	11.886	(0.892)	374136	80.0000	85
$	41 2-Fluorobiphenyl	172	12.026	12.015	(0.901)	1056393	80.0000	80
	42 2-Chloronaphthalene	162	12.232	12.221	(0.917)	898700	80.0000	80
	43 2-Nitroaniline	65	12.459	12.447	(0.934)	409378	80.0000	80
	44 Dimethylphthalate	163	12.880	12.880	(0.965)	1236774	80.0000	82
	45 2,6-Dinitrotoluene	165	12.988	12.977	(0.973)	324909	80.0000	83
	46 Acenaphthylene	152	13.053	13.052	(0.978)	1590004	80.0000	79
	47 3-Nitroaniline	138	13.301	13.290	(0.997)	416139	80.0000	84
*	48 Acenaphthene-d10	164	13.344	13.333	(1.000)	422275	40.0000	
	49 Acenaphthene	153	13.409	13.409	(1.005)	943640	80.0000	80
	50 2,4-Dinitrophenol	184	13.517	13.506	(1.013)	239336	80.0000	90
	51 4-Nitrophenol	109	13.679	13.668	(1.025)	174879	80.0000	85
	53 2,6-Dinitrotoluene	165	13.787	13.776	(1.033)	385569	80.0000	82
	52 Dibenzofuran	168	13.765	13.754	(1.032)	1352972	80.0000	79
	54 Diethylphthalate	149	14.327	14.316	(1.074)	1255626	80.0000	82
	56 4-Chlorophenyl-phenylether	204	14.489	14.489	(1.086)	508459	80.0000	84
	55 Fluorene	166	14.457	14.446	(1.083)	1035427	80.0000	79
	57 4-Nitroaniline	138	14.554	14.532	(1.091)	401466	80.0000	84
	58 4,6-Dinitro-2-methylphenol	198	14.608	14.597	(0.894)	296007	80.0000	79
	59 N-Nitrosodiphenylamine	169	14.768	14.737	(0.903)	713940	80.0000	57
$	60 2,4,6-Tribromophenol	330	14.963	14.932	(0.915)	194928	80.0000	72
	61 4-Bromophenyl-phenylether	248	15.472	15.472	(0.947)	288571	80.0000	58
	62 Hexachlorobenzene	284	15.558	15.547	(0.952)	325837	80.0000	74
	63 Pentachlorophenol	266	15.958	15.958	(0.977)	237495	80.0000	84
*	64 Phenanthrene-d10	188	16.336	16.336	(1.000)	697222	40.0000	
	65 Phenanthrene	178	16.390	16.379	(1.003)	1397424	80.0000	92
	66 Anthracene	178	16.498	16.487	(1.010)	1409180	80.0000	92
	67 Carbazole	167	16.844	16.833	(1.031)	1380583	80.0000	75
	68 Di-n-butylphthalate	149	17.654	17.643	(1.081)	2112528	80.0000	73
	69 Fluoranthene	202	18.798	18.788	(1.150)	1551861	80.0000	74
	70 Pyrene	202	19.242	19.231	(0.887)	1510921	80.0000	77
$	71 Terphenyl-d14	244	19.620	19.620	(0.904)	984938	80.0000	79
	72 Butylbenzylphthalate	149	20.668	20.667	(0.953)	1004597	80.0000	80
	74 3,3'-Dichlorobenzidine	252	21.672	21.661	(0.999)	457640	80.0000	82
	75 Benzo(a)anthracene	228	21.672	21.661	(0.999)	1355999	80.0000	77

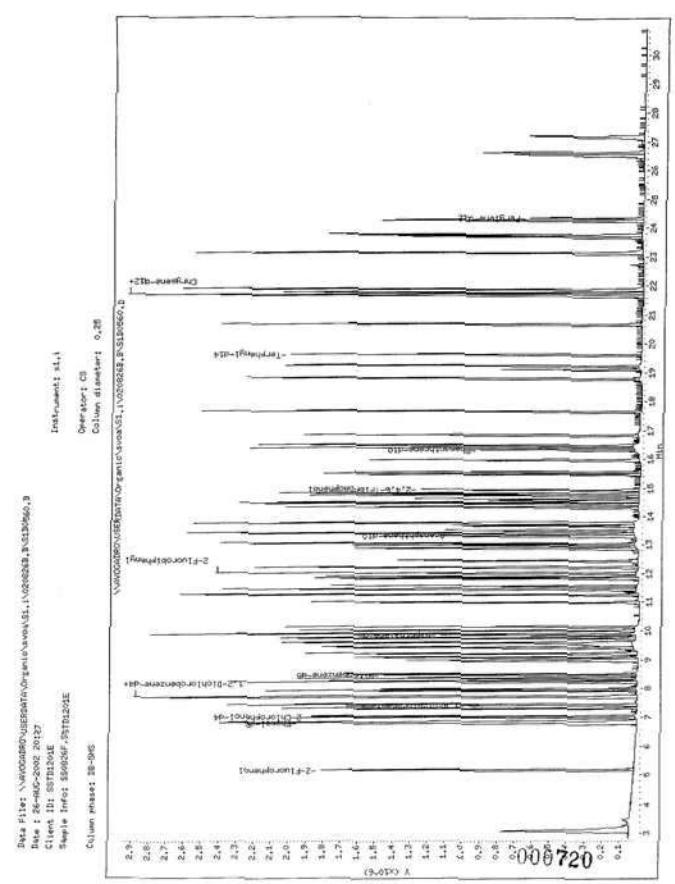
000718

Data File: S1D0559.D
Report Date: 28-Aug-2002 09:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	76 Chrysene-d12	240	21.694	21.683	(1.000)	492101	40.0000	
	78 bis(2-Ethylhexyl)phthalate	149	21.877	21.866	(1.008)	1285150	80.0000	79
	77 Chrysene	228	21.748	21.737	(1.002)	1152077	80.0000	75
	79 Di-n-octylphthalate	149	23.130	23.119	(0.950)	2211016	80.0000	82
	80 Benzo(b)fluoranthene	252	23.703	23.692	(0.973)	1192726	80.0000	84
	81 Benzo(k)fluoranthene	252	23.757	23.746	(0.976)	1154238	80.0000	75
	82 Benzo(a)pyrene	252	24.264	24.253	(0.996)	1063683	80.0000	80
*	83 Perylene-d12	264	24.351	24.351	(1.000)	365684	40.0000	
	73 Benzidine	184	19.101	19.101	(2.569)	465778	80.0000	70
	84 Indeno(1,2,3-cd)pyrene	276	26.544	26.533	(1.090)	954957	80.0000	83
	85 Dibenzo(a,h)anthracene	278	26.619	26.597	(1.093)	901999	80.0000	80
	86 Benzo(g,h,i)perylene	276	27.202	27.191	(1.117)	858326	80.0000	76

Surr
Shelo

000719



000720

Data File: S1D0560.D
Report Date: 28-Aug-2002 09:28

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020826B.B\S1D0560.D
Lab Smp Id: SS0826F Client Smp ID: SSTD1201E
Inj Date : 26-AUG-2002 20:27
Operator : CS Inst ID: s1.i
Smp Info : *SS0826F,SSTD1201E*
Misc Info : 1,S,SSTD120,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020826B.B\S1_8270C.m
Meth Date : 27-Aug-2002 10:07 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 20:27 Cal File: S1D0560.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE *Compound Sublist: 8270_ALL.sub*
Target Version: 4.03
Processing Host: TARGET2

	Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	1 N-Nitrosodimethylamine	74	3.082	3.072	(0.414)	584451	120.000	120
	2 Pyridine	79	3.114	3.115	(0.419)	1160358	120.000	120
$	3 2-Fluorophenol	112	5.188	5.178	(0.698)	1157695	120.000	120
$	5 Phenol-d5	99	6.819	6.787	(0.917)	1367440	120.000	110
	6 Phenol	94	6.851	6.820	(0.923)	1283224	120.000	100
	7 Aniline	93	6.862	6.852	(0.925)	1471467	120.000	100
	8 bis(2-Chloroethyl)Ether	93	7.003	6.982	(0.942)	965002	120.000	100
$	9 2-Chlorophenol-d4	132	7.055	7.014	(0.944)	1115894	120.000	110
	10 2-Chlorophenol	*128*	*7.067*	*7.047*	*(0.951)*	*1057898*	120.000	110
	11 1,3-Dichlorobenzene	146	7.327	7.328	(0.985)	993731	120.000	110
*	12 1,4-Dichlorobenzene-d4	152	7.435	7.436	(1.000)	260956	40.0000	
	13 1,4-Dichlorobenzene	146	7.467	7.468	(1.004)	990787	120.000	110
	15 Benzyl Alcohol	108	7.726	7.706	(1.039)	965886	120.000	110
$	14 1,2-Dichlorobenzene-d4	152	7.715	7.706	(1.038)	977403	120.000	110
	16 1,2-Dichlorobenzene	146	7.737	7.738	(1.041)	957368	120.000	110
	17 2-Methylphenol	108	7.931	7.911	(1.067)	915116	120.000	110
	18 2,2'-oxybis(1-Chloropropane)	45	7.985	7.976	(1.074)	1532886	120.000	100
	20 4-Methylphenol	108	8.234	8.213	(1.108)	924237	120.000	130
	19 N-Nitroso-di-n-propylamine	70	8.277	8.224	(1.113)	698369	120.000	110
	21 Hexachloroethane	117	8.364	8.354	(1.125)	457838	120.000	110
$	22 Nitrobenzene-d5	82	8.482	8.462	(0.862)	1123157	120.000	110
	23 Nitrobenzene	77	8.525	8.505	(0.866)	1056535	120.000	110
	24 Isophorone	82	9.012	8.980	(0.914)	2070124	120.000	130
	25 2-Nitrophenol	139	9.120	9.110	(0.924)	655360	120.000	120
	26 2,4-Dimethylphenol	107	9.249	9.229	(0.940)	849357	120.000	110
	28 Benzoic Acid	105	9.562	9.509	(0.971)	644144	120.000	110

000721

Data File: S1D0560.D
Report Date: 28-Aug-2002 09:28

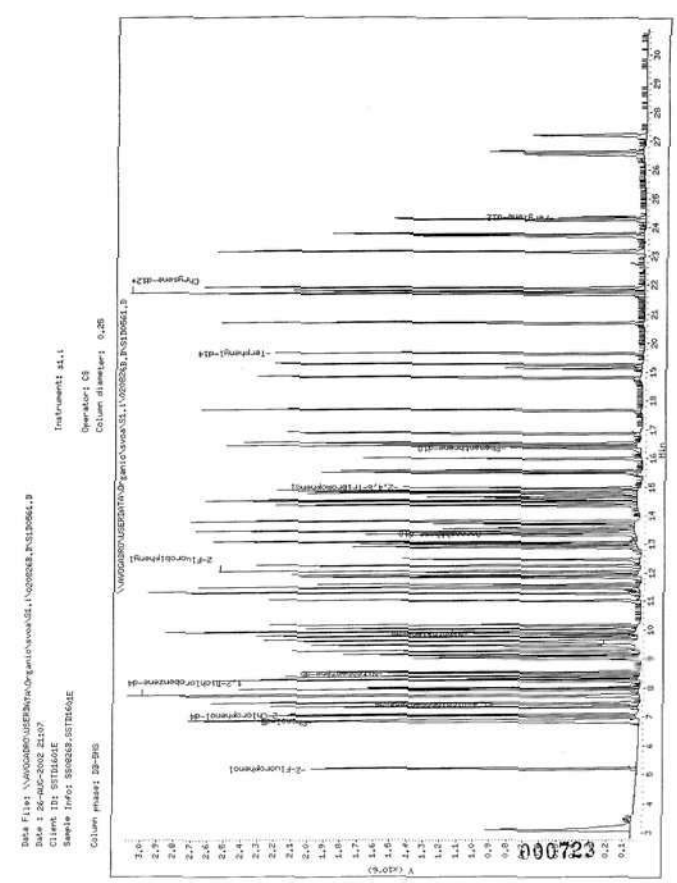
	Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	27 bis(2-Chloroethoxy)methane	93	9.444	9.423	(0.959)	1188853	120.000	110
	29 2,4-Dichlorophenol	162	9.585	9.574	(0.975)	746915	120.000	110
	30 1,2,4-Trichlorobenzene	180	9.746	9.736	(0.990)	736139	130.000	110
*	31 Naphthalene-d8	136	9.843	9.834	(1.000)	919766	40.0000	
	32 Naphthalene	128	9.886	9.877	(1.004)	2447535	120.000	110
	33 4-Chloroaniline	127	10.016	10.006	(1.018)	1218482	120.000	110
	34 Hexachlorobutadiene	225	10.146	10.147	(1.031)	390736	120.000	120
	35 4-Chloro-3-Methylphenol	107	11.010	10.989	(1.119)	793201	130.000	110
	36 2-Methylnaphthalene	142	11.269	11.259	(1.145)	1579053	120.000	110
	37 1-Methylnapthalene	142	11.453	11.443	(1.164)	1431175	120.000	110
	38 Hexachlorocyclopentadiene	237	11.582	11.573	(0.868)	439026	120.000	120
	39 2,4,6-Trichlorophenol	196	11.843	11.832	(0.887)	529323	120.000	*120*
	40 2,4,5-Trichlorophenol	196	11.966	11.886	(0.892)	520829	120.000	120
$	41 2-Fluorobiphenyl	172	12.025	12.015	(0.901)	1510505	120.000	110
	42 2-Chloronaphthalene	162	12.330	12.321	(0.917)	1246474	120.000	110
	43 2-Nitroaniline	65	12.468	12.447	(0.934)	588178	120.000	120
	44 Dimethylphthalate	163	12.869	12.880	(0.966)	1451736	120.000	110
	45 2,6-Dinitrotoluene	165	12.957	12.977	(0.974)	445490	120.000	120
	46 Acenaphthylene	152	13.062	13.052	(0.979)	2177264	120.000	110
	47 3-Nitroaniline	138	13.321	13.290	(0.998)	562791	120.000	120
*	48 Acenaphthene-d10	164	13.343	13.333	(1.000)	415910	40.0000	
	49 Acenaphthene	153	13.419	13.409	(1.006)	1284655	120.000	110
	50 2,4-Dinitrophenol	184	13.537	13.506	(1.014)	329106	120.000	120
	51 4-Nitrophenol	109	13.486	13.668	(1.026)	248393	120.000	120
	53 2,4-Dinitrotoluene	165	13.797	13.776	(1.034)	513118	120.000	110
	52 Dibenzofuran	168	13.775	13.756	(1.032)	1852779	120.000	110
	54 Diethylphthalate	149	14.337	14.316	(1.074)	1684872	120.000	110
	56 4-Chlorophenyl-phenylether	204	14.459	14.489	(1.087)	670987	120.000	110
	55 Fluorene	*166*	*14.466*	*14.446*	*(1.084)*	*1629858*	*120.000*	*120*
	57 4-Nitroaniline	138	14.574	14.532	(1.092)	544231	120.000	120
	58 4,6-Dinitro-2-methylphenol	198	14.628	14.597	(0.896)	391730	130.000	110
	59 N-Nitrosodiphenylamine	169	14.758	14.737	(0.905)	934680	120.000	86
$	60 2,4,6-Tribromophenol	330	14.982	14.932	(0.915)	264241	130.000	110
	61 4-Bromophenyl-phenylether	248	15.482	15.472	(0.949)	394629	120.000	89
	62 Hexachlorobenzene	284	15.586	15.547	(0.953)	436697	120.000	110
	63 Pentachlorophenol	266	15.968	15.958	(0.979)	322267	130.000	120
*	64 Phenanthrene-d10	188	16.335	16.336	(1.000)	653044	40.0000	
	65 Phenanthrene	178	16.400	16.379	(1.004)	1800931	120.000	120
	66 Anthracene	178	16.490	16.487	(1.010)	1838362	120.000	130
	67 Carbazole	167	16.853	16.839	(1.032)	1760912	120.000	110
	68 Di-n-butylphthalate	149	17.653	17.643	(1.081)	2721186	130.000	100
	69 Fluoranthene	202	18.798	18.788	(1.151)	1978286	120.000	100
	70 Pyrene	202	19.251	19.231	(0.887)	1955361	120.000	110
$	71 Terphenyl-d14	244	19.629	19.620	(0.905)	1260509	120.000	110
	72 Butylbenzylphthalate	149	20.677	20.667	(0.953)	1299915	120.000	120
	74 3,3'-Dichlorobenzidine	*252*	*21.692*	*21.683*	*(1.000)*	*607265*	*120.000*	*150*
	75 Benzo(a)anthracene	228	21.671	21.661	(0.999)	1631063	120.000	110

000721A

Data File: S1D0560.D
Report Date: 28-Aug-2002 09:28

	Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	74 Chrysene-d12	240	21.692	21.683	(1.000)	964757	40.0000	
	76 bis(2-Ethylhexyl)phthalate	149	21.876	21.866	(1.008)	1700902	120.000	120
	77 Chrysene	*228*	*21.755*	*21.737*	*(1.003)*	*1753393*	*120.000*	*130*
	79 Di-n-octylphthalate	149	23.135	23.119	(0.950)	2976542	120.000	120
	80 Benzo(b)fluoranthene	252	23.702	23.692	(0.973)	1548185	120.000	120
	81 Benzo(k)fluoranthene	252	23.766	23.746	(0.976)	1535281	120.000	120
	82 Benzo(a)pyrene	252	24.262	24.253	(0.996)	1539796	120.000	120
*	83 Perylene-d12	264	24.350	24.351	(1.000)	305348	40.0000	
	73 Benzidine	184	19.111	19.101	(2.571)	513593	120.000	96
	84 Indeno(1,2,3-cd)pyrene	276	26.555	26.533	(1.090)	1501549	120.000	110
	85 Dibenzo(a,h)anthracene	278	26.618	26.597	(1.093)	989190	120.000	110
	86 Benzo(g,h,i)perylene	276	27.212	27.191	(1.118)	915480	120.000	100

000722



000723

Data File: S1D0561.D
Report Date: 28-Aug-2002 09:28

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020826B.B\S1D0561.D
Lab Smp Id: SS0826B   Client Smp ID: SSTD1601E
Inj Date : 26-AUG-2002 21:07
Operator : CS   Inst ID: s1.i
Smp Info : SS0826B,SSTD1601E
Misc Info : 1,6,SSTD160,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020826B.B\S1_8270C.m
Meth Date : 27-Aug-2002 10:07 mtl   Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07   Cal File: S1D0561.D
Als bottle: 3   Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 8270_ALL.sub
Target Version: 4.03
Processing Host: TARGET2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	1 N-Nitrosodimethylamine	74	3.073	3.073	(0.413)	781464	160.000	150
	2 Pyridine	79	3.104	3.115	(0.417)	1351457	160.000	150
$	3 2-Fluorophenol	112	5.180	5.178	(0.696)	1711294	160.000	140
$	5 Phenol-d5	99	6.820	6.787	(0.917)	1949473	160.000	140
	4 Phenol	94	6.853	6.820	(0.923)	1401874	160.000	150
	7 Aniline	93	6.874	6.862	(0.924)	1654479	160.000	130
	8 bis(2-Chloroethyl)ether	93	7.009	6.992	(0.945)	1089316	160.000	130
$	9 2-Chlorophenol-d4	132	7.036	7.014	(0.946)	1276934	160.000	140
	10 2-Chlorophenol	128	7.068	7.047	(0.953)	1217179	160.000	160
	11 1,3-Dichlorobenzene	146	7.333	7.330	(0.987)	1143567	160.000	160
*	12 1,4-Dichlorobenzene-d4	152	7.436	7.434	(1.000)	235035	40.0000	
	13 1,4-Dichlorobenzene	146	7.468	7.468	(1.004)	1135354	160.000	140
	18 Benzyl alcohol	108	7.727	7.704	(1.039)	453994	160.000	130
$	16 1,2-Dichlorobenzene-d4	152	7.728	7.708	(1.039)	467444	160.000	160
	16 1,2-Dichlorobenzene	146	7.749	7.736	(1.042)	841636	160.000	150
	17 2-Methylphenol	108	7.852	7.911	(1.047)	1545904	160.000	160
	18 2,2'-oxybis(1-Chloropropane)	45	7.986	7.976	(1.074)	1713467	160.000	170
	20 4-Methylphenol	108	8.246	8.213	(1.108)	943916	160.000	170
	19 N-Nitroso-di-n-propylamine	70	8.289	8.284	(1.115)	835284	160.000	160
	21 Hexachloroethane	117	8.354	8.364	(1.128)	321013	160.000	140
$	22 Nitrobenzene-d5	82	8.481	8.462	(0.862)	1274405	160.000	140
	23 Nitrobenzene	77	8.507	8.505	(0.866)	1183754	160.000	140
	24 Isophorone	82	9.011	8.989	(0.916)	2408178	160.000	150(M)
	25 2-Nitrophenol	139	9.130	9.110	(0.924)	741795	160.000	150
	26 2,4-Dimethylphenol	107	9.350	9.339	(0.946)	1103738	160.000	150
	29 Benzoic Acid	105	9.899	9.501	(0.979)	951916	160.000	160(M)

Iso. peak not fully integrated
SWT
8/29/02

Data File: S1D0561.D
Report Date: 28-Aug-2002 09:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	27 bis(2-Chloroethoxy)methane	93	9.446	9.423	(0.959)	1357706	160.000	140
	28 2,4-Dichlorophenol	162	9.596	9.576	(0.975)	856365	160.000	150
	30 1,2,4-Trichlorobenzene	180	9.747	9.756	(0.990)	846718	160.000	140
*	31 Naphthalene-d8	136	9.844	9.834	(1.000)	807238	40.0000	
	32 Naphthalene	128	9.887	9.877	(1.004)	2789445	160.000	140
	33 4-Chloroaniline	127	10.028	10.006	(1.019)	1773048	160.000	140
	34 Hexachlorobutadiene	225	10.147	10.147	(1.031)	642580	160.000	150
	35 4-Chloro-3-Methylphenol	107	11.011	10.989	(1.119)	896136	160.000	140
	36 2-Methylnaphthalene	142	11.170	11.259	(1.140)	1810450	160.000	160
	37 1-Methylnaphthalene	142	11.464	11.443	(1.165)	1627459	160.000	160
	38 Hexachlorocyclopentadiene	237	11.583	11.575	(0.880)	503611	160.000	160(A)
	39 2,4,6-Trichlorophenol	196	11.865	11.852	(0.897)	613028	160.000	150
	40 2,4,5-Trichlorophenol	196	11.907	11.886	(0.892)	573785	160.000	150
$	41 2-Fluorobiphenyl	172	12.026	12.018	(0.901)	1888461	160.000	160
	42 2-Chloronaphthalene	162	12.251	12.221	(0.917)	1461757	160.000	150
	43 2-Nitroaniline	65	12.469	12.447	(0.934)	666720	160.000	150
	44 Dimethylphthalate	163	12.903	12.880	(0.967)	1889431	160.000	160
	45 2,6-Dinitrotoluene	165	12.998	12.977	(0.974)	311091	160.000	150
	46 Acenaphthylene	152	13.061	13.053	(0.979)	2475585	160.000	160
	47 3-Nitroaniline	138	13.222	13.200	(0.990)	614036	160.000	140
*	48 Acenaphthene-d10	164	13.344	13.333	(1.000)	394509	40.0000	
	49 Acenaphthene	153	13.428	13.409	(1.006)	1460478	160.000	140
	50 2,4-Dinitrophenol	184	13.530	13.506	(1.014)	367875	160.000	160
	51 4-Nitrophenol	109	13.700	13.688	(1.027)	570945	160.000	150
	52 2,4-Dinitrotoluene	165	13.808	13.776	(1.035)	565688	160.000	150
	53 Dibenzofuran	168	13.776	13.754	(1.033)	3184369	160.000	140
	54 Diethylphthalate	149	14.330	14.316	(1.074)	1902416	160.000	140
	56 4-Chlorophenyl-phenylether	204	14.500	14.488	(1.087)	363431	160.000	140
	55 Fluorene	166	14.457	14.446	(1.084)	1604015	160.000	140
	57 4-Nitroaniline	138	14.586	14.553	(1.093)	813026	160.000	150
	58 4,6-Dinitro-2-methylphenol	198	14.660	14.597	(0.896)	438362	160.000	160(M)
	59 N-Nitrosodiphenylamine	169	14.759	14.767	(0.903)	1044963	160.000	160
$	60 2,4,6-Tribromophenol	330	14.953	14.932	(0.918)	245031	160.000	160
	61 4-Bromophenyl-phenylether	248	15.493	15.472	(0.948)	429850	160.000	160
	62 Hexachlorobenzene	284	15.569	15.547	(0.953)	487810	160.000	150
	63 Pentachlorophenol	266	15.949	15.958	(0.978)	383433	160.000	160
*	64 Phenanthrene-d10	188	16.334	16.334	(1.000)	552490	40.0000	
	65 Phenanthrene	178	16.401	16.379	(1.004)	5014471	160.000	140
	66 Anthracene	178	16.509	16.487	(1.011)	5036344	160.000	140
	67 Carbazole	167	16.954	16.933	(1.038)	1954188	160.000	160
	68 Di-n-butylphthalate	149	17.654	17.646	(1.081)	3007743	160.000	140
	69 Fluoranthene	202	18.799	18.799	(1.151)	3175317	160.000	140
	70 Pyrene	202	19.161	19.151	(0.887)	4124704	160.000	140
$	71 Terphenyl-d14	244	19.650	19.630	(0.908)	1606850	160.000	160(A)
	72 Butylbenzylphthalate	149	20.679	20.667	(0.955)	1407150	160.000	160
	74 3,3'-Dichlorobenzidine	252	21.661	21.661	(1.000)	839144	160.000	160(A)
	73 Benzo(a)anthracene	228	21.673	21.661	(0.999)	1314605	160.000	150

Data File: S1D0561.D
Report Date: 28-Aug-2002 09:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	76 Chrysene-d12	240	21.691	21.683	(1.000)	347647	40.0000	
	75 bis(2-Ethylhexyl)phthalate	149	21.877	21.866	(1.008)	1024773	160.000	160
	77 Chrysene	228	21.759	21.737	(1.003)	1543194	160.000	160
	79 Di-n-octylphthalate	149	23.130	23.119	(0.950)	2042404	160.000	170(A)
	80 Benzo(b)fluoranthene	252	23.701	23.692	(0.973)	1652371	160.000	170(A)
	81 Benzo(k)fluoranthene	252	23.767	23.744	(0.976)	1530506	160.000	140
	82 Benzo(a)pyrene	252	24.375	24.353	(0.997)	1384825	160.000	160(A)
*	83 Perylene-d12	264	24.351	24.351	(1.000)	897114	40.0000	
	71 Benzidine	184	13.115	13.301	(2.590)	844167	160.000	120
	84 Indeno(1,2,3-cd)pyrene	276	26.554	26.533	(1.090)	1074189	160.000	150
	85 Dibenzo(a,h)anthracene	278	26.619	26.597	(1.093)	1035871	160.000	150
	86 Benzo(g,h,i)perylene	276	27.213	27.191	(1.119)	955976	160.000	140

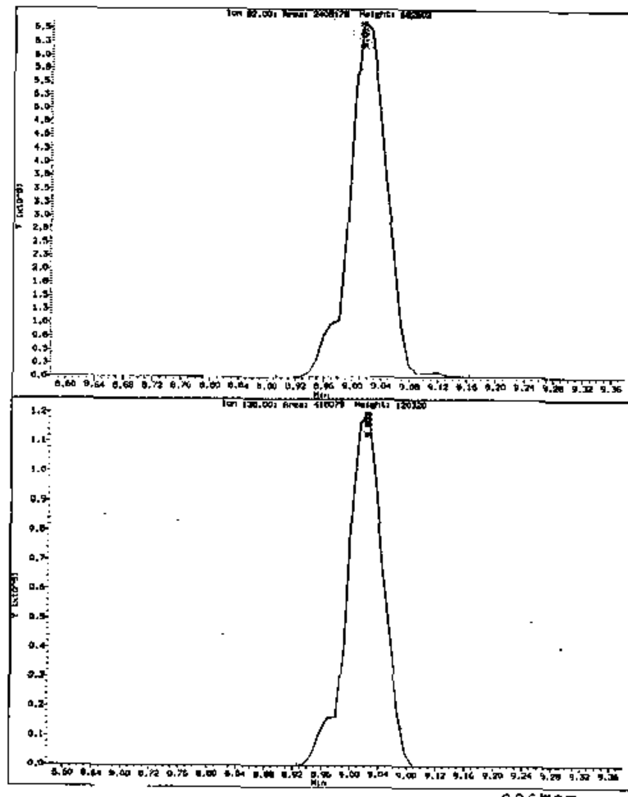
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

SWT
8/29/02

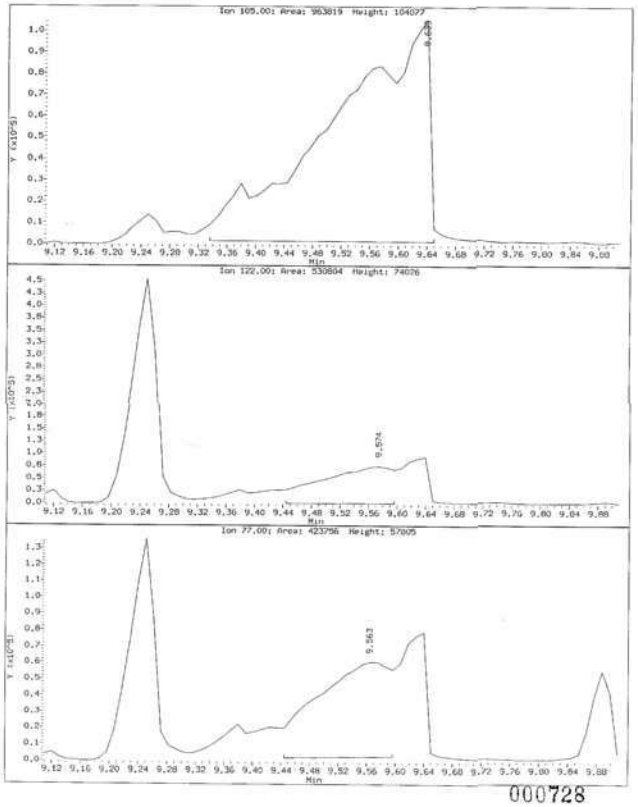
Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020826B.B\S1D0561.D
Injection Date: 26-AUG-2002 21:07
Instrument: s1.i
Client Sample ID: SSTD1601E

Compound: Isophorone
CAS Number: 78-59-1



Data File: \\AVOGADRO\USERDATA\Organic\evoa\S1.i\0208268.B\S1D0561.D
Injection Date: 26-AUG-2002 21:07
Instrument: s1.i
Client Sample ID: SSTD1601E

Compound: Benzoic Acid
CAS Number: 65-85-0



FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Instrument ID: S1 Calibration Date: 08/27/02 Time: 1013

Lab File ID: S1D0565 Init. Calib. Date(s): 08/26/02 08/26/02

Init. Calib. Times: 1540 2147

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.858	2.069	0.05	11.4	20.0
bis(2-Chloroethyl)Ether	1.446	1.643	0.05	13.6	100
2-Chlorophenol	1.454	1.493	0.05	2.7	100
1,3-Dichlorobenzene	1.390	1.444	0.05	3.9	100
1,4-Dichlorobenzene	1.389	1.447	0.05	4.2	20.0
1,2-Dichlorobenzene	1.235	1.309	0.05	6.0	100
2-Methylphenol	1.280	1.383	0.05	8.0	100
2,2'-oxybis(1-Chloropropane)	2.278	2.618	0.05	14.9	100
4-Methylphenol	1.281	1.379	0.05	7.6	100
N-Nitroso-di-n-propylamine	0.964	0.980	0.05	1.6	100
Hexachloroethane	0.656	0.715	0.05	9.0	100
Nitrobenzene	0.422	0.440	0.05	4.3	100
Isophorone	0.804	0.736	0.05	8.4	100
2-Nitrophenol	0.247	0.247	0.05	0.0	20.0
2,4-Dimethylphenol	0.363	0.359	0.05	1.1	100
2,4-Dichlorophenol	0.287	0.288	0.05	0.3	20.0
1,2,4-Trichlorobenzene	0.292	0.291	0.05	0.3	100
Naphthalene	0.991	1.021	0.05	3.0	100
4-Chloroaniline	0.474	0.482	0.05	1.7	100
bis(2-Chloroethoxy)methane	0.480	0.504	0.05	5.0	100
Hexachlorobutadiene	0.148	0.144	0.05	2.7	20.0
4-Chloro-3-Methylphenol	0.311	0.318	0.05	2.2	20.0
2-Methylnaphthalene	0.635	0.658	0.05	3.6	100
Hexachlorocyclopentadiene	0.351	0.333	0.05	5.1	100
2,4,6-Trichlorophenol	0.436	0.426	0.05	2.3	100
2,4,5-Trichlorophenol	0.435	0.437	0.05	0.4	100
2-Chloronaphthalene	1.064	1.062	0.05	0.2	100
2-Nitroaniline	0.487	0.495	0.05	1.6	100
Dimethylphthalate	1.444	1.471	0.05	1.9	100
Acenaphthylene	1.918	1.945	0.05	1.4	100
2,6-Dinitrotoluene	0.376	0.380	0.05	1.1	100
3-Nitroaniline	0.476	0.498	0.05	4.6	100
Acenaphthene	1.124	1.125	0.05	0.1	20.0
2,4-Dinitrophenol	0.259	0.252	0.05	2.7	100
4-Nitrophenol	0.200	0.199	0.05	0.5	100
Dibenzofuran	1.627	1.632	0.05	0.3	100
2,4-Dinitrotoluene	0.450	0.456	0.05	1.3	100

FORM VII SV

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Instrument ID: S1 Calibration Date: 08/27/02 Time: 1013

Lab File ID: S1D0565 Init. Calib. Date(s): 08/26/02 08/26/02

Init. Calib. Times: 1540 2147

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.486	1.527	0.05	2.8	100
4-Chlorophenyl-phenylether	0.591	0.600	0.05	1.5	100
Fluorene	1.245	1.285	0.05	3.2	100
4-Nitroaniline	0.458	0.458	0.05	0.0	100
4,6-Dinitro-2-methylphenol	0.203	0.198	0.05	2.5	100
N-Nitrosodiphenylamine	0.518	0.525	0.05	1.4	20.0
4-Bromophenyl-phenylether	0.205	0.204	0.05	0.5	100
Hexachlorobenzene	0.236	0.234	0.05	0.8	100
Pentachlorophenol	0.167	0.162	0.05	3.0	20.0
Phenanthrene	1.030	1.049	0.05	1.8	100
Anthracene	1.041	1.093	0.05	5.0	100
Carbazole	0.994	1.047	0.05	5.3	100
Di-n-butylphthalate	1.548	1.615	0.05	4.3	100
Fluoranthene	1.116	1.160	0.05	3.9	20.0
Pyrene	1.554	1.507	0.05	3.0	100
Butylbenzylphthalate	1.012	0.990	0.05	2.2	100
3,3'-Dichlorobenzidine	0.454	0.457	0.05	0.7	100
Benzo(a)anthracene	1.284	1.245	0.05	3.0	100
Chrysene	1.193	1.197	0.05	0.3	100
bis(2-Ethylhexyl)phthalate	1.312	1.260	0.05	4.0	100
Di-n-octylphthalate	3.052	2.954	0.05	3.2	20.0
Benzo(b)fluoranthene	1.598	1.490	0.05	6.8	100
Benzo(k)fluoranthene	1.626	1.577	0.05	3.0	100
Benzo(a)pyrene	1.456	1.429	0.05	1.8	20.0
Indeno(1,2,3-cd)pyrene	1.202	1.307	0.05	8.7	100
Dibenzo(a,h)anthracene	1.170	1.265	0.05	8.1	100
Benzo(g,h,i)perylene	1.140	1.275	0.05	11.8	100
Nitrobenzene-d5	0.440	0.455	0.05	3.4	100
2-Fluorobiphenyl	1.310	1.314	0.05	0.3	100
Terphenyl-d14	1.004	0.964	0.05	4.0	100
Phenol-d5	1.894	2.032	0.05	7.3	100
2-Fluorophenol	1.552	1.610	0.05	3.7	100
2,4,6-Tribromophenol	0.136	0.131	0.05	3.7	100
2-Chlorophenol-d4	1.527	1.560	0.05	2.2	100
1,2-Dichlorobenzene-d4	0.811	0.842	0.05	3.8	100

FORM VII SV

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Instrument ID: S1 Calibration Date: 08/27/02 Time: 2232

Lab File ID: S1D0585 Init. Calib. Date(s): 08/26/02 08/26/02

Init. Calib. Times: 1540 2147

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.858	2.123	0.05	14.3	20.0
bis(2-Chloroethyl)Ether	1.446	1.635	0.05	13.1	100
2-Chlorophenol	1.454	1.507	0.05	3.6	100
1,3-Dichlorobenzene	1.390	1.441	0.05	3.7	100
1,4-Dichlorobenzene	1.389	1.439	0.05	3.6	20.0
1,2-Dichlorobenzene	1.235	1.310	0.05	6.1	100
2-Methylphenol	1.280	1.366	0.05	6.7	100
2,2'-oxybis(1-Chloropropane)	2.278	2.638	0.05	15.8	100
4-Methylphenol	1.281	1.397	0.05	9.0	100
N-Nitroso-di-n-propylamine	0.964	0.950	0.05	1.4	100
Hexachloroethane	0.656	0.709	0.05	8.1	100
Nitrobenzene	0.422	0.436	0.05	3.3	100
Isophorone	0.804	0.813	0.05	1.1	100
2-Nitrophenol	0.247	0.246	0.05	0.4	20.0
2,4-Dimethylphenol	0.363	0.358	0.05	1.4	100
2,4-Dichlorophenol	0.287	0.290	0.05	1.0	20.0
1,2,4-Trichlorobenzene	0.292	0.294	0.05	0.7	100
Naphthalene	0.991	1.019	0.05	2.8	100
4-Chloroaniline	0.474	0.480	0.05	1.3	100
bis(2-Chloroethoxy)methane	0.480	0.504	0.05	5.0	100
Hexachlorobutadiene	0.148	0.145	0.05	2.0	20.0
4-Chloro-3-Methylphenol	0.311	0.326	0.05	4.8	20.0
2-Methylnaphthalene	0.635	0.651	0.05	2.5	100
Hexachlorocyclopentadiene	0.351	0.238	0.05	32.2	100
2,4,6-Trichlorophenol	0.436	0.428	0.05	1.8	100
2,4,5-Trichlorophenol	0.435	0.433	0.05	0.4	100
2-Chloronaphthalene	1.064	1.066	0.05	0.2	100
2-Nitroaniline	0.487	0.500	0.05	2.7	100
Dimethylphthalate	1.444	1.450	0.05	0.4	100
Acenaphthylene	1.918	1.945	0.05	1.4	100
2,6-Dinitrotoluene	0.376	0.376	0.05	0.0	100
3-Nitroaniline	0.476	0.480	0.05	0.8	100
Acenaphthene	1.124	1.136	0.05	1.1	20.0
2,4-Dinitrophenol	0.259	0.204	0.05	21.2	100
4-Nitrophenol	0.200	0.201	0.05	0.5	100
Dibenzofuran	1.627	1.652	0.05	1.5	100
2,4-Dinitrotoluene	0.450	0.458	0.05	1.8	100

FORM VII SV

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Instrument ID: S1 Calibration Date: 08/27/02 Time: 2232

Lab File ID: S1D0585 Init. Calib. Date(s): 08/26/02 08/26/02

Init. Calib. Times: 1540 2147

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.486	1.537	0.05	3.4	100
4-Chlorophenyl-phenylether	0.591	0.597	0.05	1.0	100
Fluorene	1.245	1.280	0.05	2.8	100
4-Nitroaniline	0.458	0.464	0.05	1.3	100
4,6-Dinitro-2-methylphenol	0.203	0.175	0.05	13.8	100
N-Nitrosodiphenylamine	0.518	0.521	0.05	0.6	20.0
4-Bromophenyl-phenylether	0.205	0.201	0.05	2.0	100
Hexachlorobenzene	0.236	0.235	0.05	0.4	100
Pentachlorophenol	0.167	0.158	0.05	5.4	20.0
Phenanthrene	1.030	1.052	0.05	2.1	100
Anthracene	1.041	1.088	0.05	4.5	100
Carbazole	0.994	1.038	0.05	4.4	100
Di-n-butylphthalate	1.548	1.642	0.05	6.1	100
Fluoranthene	1.116	1.158	0.05	3.8	20.0
Pyrene	1.554	1.534	0.05	1.3	100
Butylbenzylphthalate	1.012	1.018	0.05	0.6	100
3,3'-Dichlorobenzidine	0.454	0.434	0.05	4.4	100
Benzo(a)anthracene	1.284	1.252	0.05	2.5	100
Chrysene	1.193	1.144	0.05	4.1	100
bis(2-Ethylhexyl)phthalate	1.312	1.337	0.05	1.9	100
Di-n-octylphthalate	3.052	3.398	0.05	11.3	20.0
Benzo(b)fluoranthene	1.598	1.577	0.05	1.3	100
Benzo(k)fluoranthene	1.626	1.718	0.05	5.6	100
Benzo(a)pyrene	1.456	1.460	0.05	0.3	20.0
Indeno(1,2,3-cd)pyrene	1.202	1.125	0.05	6.4	100
Dibenzo(a,h)anthracene	1.170	1.118	0.05	4.4	100
Benzo(g,h,i)perylene	1.140	1.040	0.05	8.8	100
Nitrobenzene-d5	0.440	0.457	0.05	3.9	100
2-Fluorobiphenyl	1.310	1.322	0.05	0.9	100
Terphenyl-d14	1.004	0.976	0.05	2.8	100
Phenol-d5	1.894	2.052	0.05	8.3	100
2-Fluorophenol	1.552	1.576	0.05	1.5	100
2,4,6-Tribromophenol	0.136	0.132	0.05	2.9	100
2-Chlorophenol-d4	1.527	1.579	0.05	3.4	100
1,2-Dichlorobenzene-d4	0.811	0.846	0.05	4.3	100

FORM VII SV

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Instrument ID: S1 Calibration Date: 08/31/02 Time: 1156

Lab File ID: S1D0677 Init. Calib. Date(s): 08/26/02 08/26/02

Init. Calib. Times: 1540 2147

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.858	1.771	0.05	4.7	20.0
bis(2-Chloroethyl)Ether	1.446	1.344	0.05	7.0	100
2-Chlorophenol	1.454	1.416	0.05	2.6	100
1,3-Dichlorobenzene	1.390	1.408	0.05	1.3	100
1,4-Dichlorobenzene	1.389	1.445	0.05	4.0	20.0
1,2-Dichlorobenzene	1.235	1.268	0.05	2.7	100
2-Methylphenol	1.280	1.323	0.05	3.4	100
2,2'-oxybis(1-Chloropropane)	2.278	2.218	0.05	2.6	100
4-Methylphenol	1.281	1.315	0.05	2.6	100
N-Nitroso-di-n-propylamine	0.964	0.949	0.05	1.6	100
Hexachloroethane	0.656	0.762	0.05	16.2	100
Nitrobenzene	0.422	0.413	0.05	2.1	100
Isophorone	0.804	0.744	0.05	7.5	100
2-Nitrophenol	0.247	0.242	0.05	2.0	20.0
2,4-Dimethylphenol	0.363	0.355	0.05	2.2	100
2,4-Dichlorophenol	0.287	0.291	0.05	1.4	20.0
1,2,4-Trichlorobenzene	0.292	0.309	0.05	5.8	100
Naphthalene	0.991	0.996	0.05	0.5	100
4-Chloroaniline	0.474	0.458	0.05	3.4	100
bis(2-Chloroethoxy)methane	0.480	0.478	0.05	0.4	100
Hexachlorobutadiene	0.148	0.156	0.05	5.4	20.0
4-Chloro-3-Methylphenol	0.311	0.312	0.05	0.3	20.0
2-Methylnaphthalene	0.635	0.654	0.05	3.0	100
Hexachlorocyclopentadiene	0.351	0.340	0.05	3.1	100
2,4,6-Trichlorophenol	0.436	0.438	0.05	0.4	100
2,4,5-Trichlorophenol	0.435	0.452	0.05	3.9	100
2-Chloronaphthalene	1.064	1.044	0.05	1.9	100
2-Nitroaniline	0.487	0.465	0.05	4.5	100
Dimethylphthalate	1.444	1.424	0.05	1.4	100
Acenaphthylene	1.918	1.921	0.05	0.2	100
2,6-Dinitrotoluene	0.376	0.375	0.05	0.3	100
3-Nitroaniline	0.476	0.450	0.05	5.5	100
Acenaphthene	1.124	1.133	0.05	0.8	20.0
2,4-Dinitrophenol	0.259	0.249	0.05	3.9	100
4-Nitrophenol	0.200	0.198	0.05	1.0	100
Dibenzofuran	1.627	1.644	0.05	1.0	100
2,4-Dinitrotoluene	0.450	0.461	0.05	2.4	100

FORM VII SV

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Instrument ID: S1 Calibration Date: 08/31/02 Time: 1156

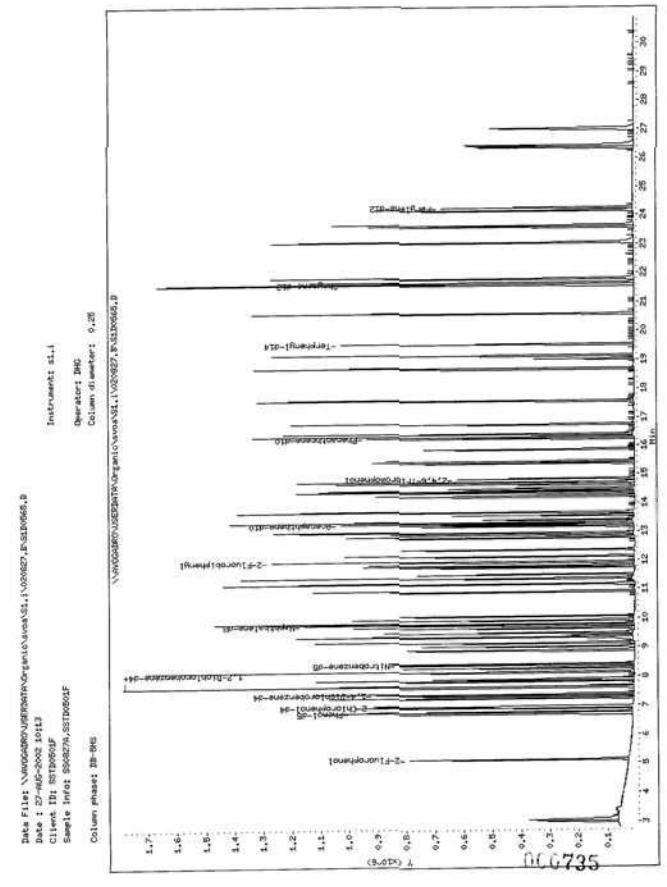
Lab File ID: S1D0677 Init. Calib. Date(s): 08/26/02 08/26/02

Init. Calib. Times: 1540 2147

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.486	1.502	0.05	1.1	100
4-Chlorophenyl-phenylether	0.591	0.610	0.05	3.2	100
Fluorene	1.245	1.260	0.05	1.2	100
4-Nitroaniline	0.458	0.433	0.05	5.4	100
4,6-Dinitro-2-methylphenol	0.203	0.198	0.05	2.5	100
N-Nitrosodiphenylamine	0.518	0.517	0.05	0.2	20.0
4-Bromophenyl-phenylether	0.205	0.207	0.05	1.0	100
Hexachlorobenzene	0.236	0.242	0.05	2.5	100
Pentachlorophenol	0.167	0.164	0.05	1.8	20.0
Phenanthrene	1.030	1.040	0.05	1.0	100
Anthracene	1.041	1.067	0.05	2.5	100
Carbazole	0.994	0.989	0.05	0.5	100
Di-n-butylphthalate	1.548	1.549	0.05	0.1	100
Fluoranthene	1.116	1.112	0.05	0.4	20.0
Pyrene	1.554	1.572	0.05	1.2	100
Butylbenzylphthalate	1.012	0.999	0.05	1.3	100
3,3'-Dichlorobenzidine	0.454	0.400	0.05	11.9	100
Benzo(a)anthracene	1.284	1.269	0.05	1.2	100
Chrysene	1.193	1.122	0.05	6.0	100
bis(2-Ethylhexyl)phthalate	1.312	1.296	0.05	1.2	100
Di-n-octylphthalate	3.052	3.430	0.05	12.4	20.0
Benzo(b)fluoranthene	1.598	1.569	0.05	1.8	100
Benzo(k)fluoranthene	1.626	1.762	0.05	8.4	100
Benzo(a)pyrene	1.456	1.449	0.05	0.5	20.0
Indeno(1,2,3-cd)pyrene	1.202	1.064	0.05	11.5	100
Dibenzo(a,h)anthracene	1.170	1.077	0.05	7.9	100
Benzo(g,h,i)perylene	1.140	0.988	0.05	13.3	100
Nitrobenzene-d5	0.440	0.440	0.05	0.0	100
2-Fluorobiphenyl	1.310	1.327	0.05	1.3	100
Terphenyl-d14	1.004	1.000	0.05	0.4	100
Phenol-d5	1.894	1.780	0.05	6.0	100
2-Fluorophenol	1.552	1.240	0.05	20.1	100
2,4,6-Tribromophenol	0.136	0.137	0.05	0.7	100
2-Chlorophenol-d4	1.527	1.472	0.05	3.6	100
1,2-Dichlorobenzene-d4	0.811	0.862	0.05	6.3	100

FORM VII SV



Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1D0565.D
Lab Smp Id: SS0827A Client Smp ID: SSTD0501F
Inj Date : 27-AUG-2002 10:13
Operator : DHG Inst ID: s1.i
Smp Info : SS0827A,SSTD0501F
Misc Info : 2,3,SSTD050,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1_8270C.m
Meth Date : 30-Aug-2002 09:19 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS: CAL-AMT (ng)	AMOUNTS: ON-COL (ng)
$	3 2-Fluorophenol	112	5.115	5.115	(0.495)	456763	50.0000	52
$	5 Phenol-d5	99	6.725	6.725	(0.911)	576520	50.0000	54
	6 Phenol	94	6.746	6.746	(0.914)	587134	50.0000	56
	8 bis(2-Chloroethyl)Ether	93	6.919	6.919	(0.946)	466362	50.0000	57
$	9 2-Chlorophenol-d4	132	6.952	6.952	(0.944)	442761	50.0000	51
	10 2-Chlorophenol	128	6.973	6.973	(0.947)	423654	50.0000	51
	11 1,3-Dichlorobenzene	146	7.254	7.254	(0.985)	409812	50.0000	52
*	12 1,4-Dichlorobenzene-d4	152	7.362	7.362	(1.000)	327020	40.0000	
	13 1,4-Dichlorobenzene	146	7.394	7.394	(1.004)	410587	50.0000	52
$	14 1,2-Dichlorobenzene-d4	152	7.632	7.632	(1.037)	239062	50.0000	52
	16 1,2-Dichlorobenzene	146	7.664	7.664	(1.041)	371446	50.0000	53
	17 2-Methylphenol	108	7.857	7.857	(1.066)	392370	50.0000	54
	18 2,2'-oxybis(1-Chloropropane)	45	7.902	7.902	(1.073)	743026	50.0000	57
	20 4-Methylphenol	108	8.140	8.140	(1.106)	391407	50.0000	54
	19 N-Nitroso-di-n-propylamine	70	8.150	8.150	(1.107)	276005	50.0000	53
	21 Hexachloroethane	117	8.280	8.280	(1.125)	202993	50.0000	54
$	22 Nitrobenzene-d5	82	8.388	8.388	(0.859)	468689	50.0000	52
	23 Nitrobenzene	77	8.431	8.431	(0.864)	453057	50.0000	51
	24 Isophorone	82	8.907	8.907	(0.913)	757685	50.0000	46
	25 2-Nitrophenol	139	9.025	9.025	(0.925)	254868	50.0000	50
	26 2,4-Dimethylphenol	107	9.155	9.155	(0.938)	369591	50.0000	49
	27 bis(2-Chloroethoxy)methane	93	9.350	9.350	(0.958)	519478	50.0000	52
	29 2,4-Dichlorophenol	162	9.501	9.501	(0.973)	297034	50.0000	50
	30 1,2,4-Trichlorobenzene	180	9.663	9.663	(0.990)	299160	50.0000	50
*	31 Naphthalene-d8	136	9.740	9.740	(1.000)	823839	40.0000	
	32 Naphthalene	128	9.803	9.803	(1.006)	1001149	50.0000	51

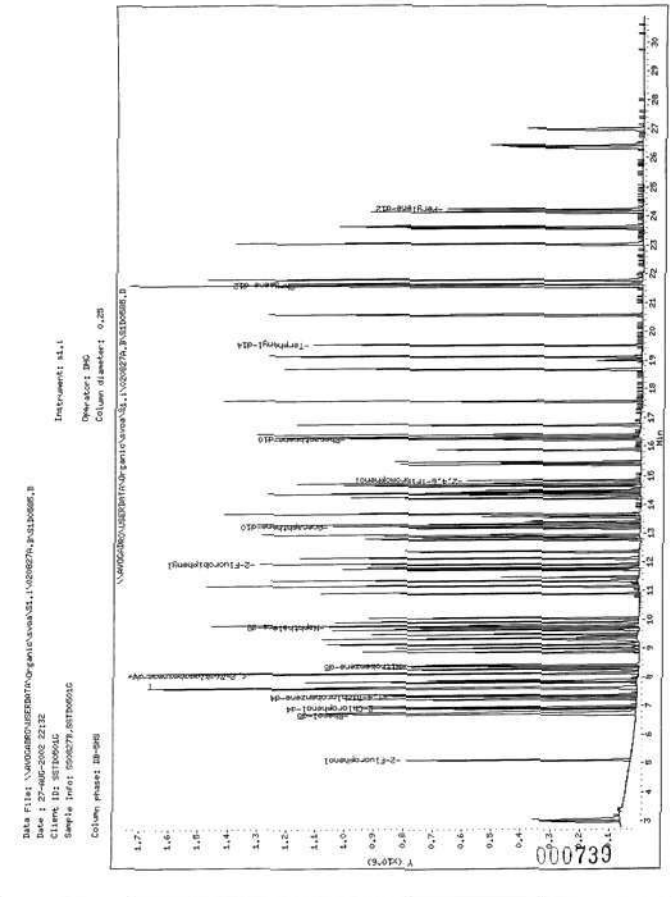
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS: CAL-AMT (ng)	AMOUNTS: ON-COL (ng)
	33 4-Chloroaniline	127	9.833	9.833	(1.018)	494533	50.0000	51
	34 Hexachlorobutadiene	225	10.073	10.073	(1.032)	147870	50.0000	48
	35 4-Chloro-3-Methylphenol	107	10.916	10.916	(1.118)	337440	50.0000	51
	36 2-Methylnaphthalene	142	11.175	11.175	(1.145)	677390	50.0000	52
	38 Hexachlorocyclopentadiene	237	11.499	11.499	(0.867)	160903	50.0000	47
	39 2,4,6-Trichlorophenol	196	11.747	11.747	(0.886)	205970	50.0000	49
	40 2,4,5-Trichlorophenol	196	11.812	11.812	(0.891)	211508	50.0000	50
$	41 2-Fluorobiphenyl	172	11.942	11.942	(0.901)	635384	50.0000	50
	42 2-Chloronaphthalene	162	12.147	12.147	(0.916)	513806	50.0000	50
	43 2-Nitroaniline	65	12.374	12.374	(0.933)	239453	50.0000	51
	44 Dimethylphthalate	163	12.795	12.795	(0.965)	712446	50.0000	51
	45 2,6-Dinitrotoluene	165	12.892	12.892	(0.972)	183919	50.0000	51
	46 Acenaphthylene	152	12.968	12.968	(0.978)	940477	50.0000	51
	47 3-Nitroaniline	138	13.206	13.206	(0.996)	140916	50.0000	52
*	48 Acenaphthene-d10	164	13.260	13.260	(1.000)	386858	40.0000	
	49 Acenaphthene	153	13.324	13.324	(1.005)	543858	50.0000	50
	50 2,4-Dinitrophenol	184	13.422	13.422	(1.012)	121634	50.0000	48
	51 4-Nitrophenol	109	13.584	13.584	(1.024)	96189	50.0000	50
	52 2,4-Dinitrotoluene	*165*	*13.692*	*13.692*	*(1.033)*	*220761*	50.0000	51
	52 Dibenzofuran	168	13.681	13.681	(1.032)	789400	50.0000	50
	54 Diethylphthalate	149	14.243	14.243	(1.074)	738328	50.0000	51
	56 4-Chlorophenyl-phenylether	204	14.405	14.405	(1.086)	290054	50.0000	51
	55 Fluorene	166	14.361	14.361	(1.083)	621369	50.0000	52
	57 4-Nitroaniline	138	14.448	14.448	(1.090)	221386	50.0000	50
	58 4,6-Dinitro-2-methylphenol	198	14.513	14.513	(0.888)	156823	50.0000	49
	59 N-Nitrosodiphenylamine	169	14.653	14.653	(0.896)	414497	50.0000	51
$	60 2,4,6-Tribromophenol	330	14.847	14.847	(0.908)	103520	50.0000	48
	61 4-Bromophenyl-phenylether	248	15.387	15.387	(0.941)	161127	50.0000	50(H)
	62 Hexachlorobenzene	*284*	*15.443*	*15.443*	*(0.945)*	*184424*	*50.0000*	*50*
	63 Pentachlorophenol	266	15.874	15.874	(0.971)	130275	50.0000	49
*	64 Phenanthrene-d10	188	16.241	16.241	(1.000)	651873	40.0000	(H)
	65 Phenanthrene	178	16.295	16.295	(0.997)	828964	50.0000	51(H)
	66 Anthracene	178	16.403	16.403	(1.003)	863581	50.0000	52
	67 Carbazole	167	16.748	16.748	(1.024)	827082	50.0000	53
	68 Di-n-butylphthalate	149	17.559	17.559	(1.074)	1275391	50.0000	52(H)
	69 Fluoranthene	202	18.693	18.693	(1.143)	914554	50.0000	52
	70 Pyrene	202	19.134	19.134	(0.886)	908878	50.0000	48
$	71 Terphenyl-d14	244	19.524	19.524	(0.904)	581308	50.0000	48
	72 Butylbenzylphthalate	149	*20.583*	*20.583*	*(0.953)*	597328	50.0000	49
	74 3,3'-Dichlorobenzidine	252	21.566	21.566	(0.998)	375702	50.0000	50
	75 Benzo(a)anthracene	228	21.566	21.566	(0.998)	750905	50.0000	48
*	76 Chrysene-d12	240	21.598	21.598	(1.000)	482505	40.0000	
	78 bis(2-Ethylhexyl)phthalate	149	21.793	21.793	(1.009)	740121	50.0000	48
	77 Chrysene	228	21.652	21.652	(1.002)	721934	50.0000	50
	79 Di-n-octylphthalate	149	23.035	23.035	(0.950)	1343816	50.0000	48
	80 Benzo(b)fluoranthene	252	23.597	23.587	(0.973)	677966	50.0000	47
	81 Benzo(k)fluoranthene	252	23.651	23.651	(0.975)	717464	50.0000	48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS: CAL-AMT (ng)	AMOUNTS: ON-COL (ng)
	82 Benzo(a)pyrene	252	24.158	24.158	(0.996)	650346	50.0000	49
*	83 Perylene-d12	264	24.243	24.243	(1.000)	963947	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	26.383	26.383	(1.088)	594570	50.0000	54
	85 Dibenzo(a,h)anthracene	278	26.448	26.448	(1.091)	575685	50.0000	54
	86 Benzo(g,h,i)perylene	276	27.021	27.021	(1.114)	580334	50.0000	56

QC Flag Legend

H - Operator selected an alternate compound hit.

9/4/02



Data File: S1D0585.D
Report Date: 06-Sep-2002 10:53

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827A.B\S1D0585.D
Lab Smp Id: SS0827B Client Smp ID: SSTD0501G
Inj Date : 27-AUG-2002 22:32
Operator : DHG Inst ID: s1.i
Smp Info : SS0827B,SSTD0501G
Misc Info : 2,3,SSTD050,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827A.B\S1_8270C.m
Meth Date : 06-Sep-2002 10:52 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
S	3 2-Fluorophenol	112	5.114	5.114	(0.696)	445798	50.0000	51
S	5 Phenol-d5	99	6.723	6.723	(0.915)	580353	50.0000	54
	6 Phenol	94	6.745	6.745	(0.918)	600357	50.0000	57
	8 bis(2-Chloroethyl)Ether	93	6.907	6.907	(0.940)	462325	50.0000	56
S	9 2-Chlorophenol-d4	132	6.939	6.939	(0.944)	446479	50.0000	52
	10 2-Chlorophenol	128	6.971	6.971	(0.949)	426250	50.0000	52
	11 1,3-Dichlorobenzene	146	7.242	7.242	(0.985)	407466	50.0000	52
*	12 1,4-Dichlorobenzene-d4	152	7.349	7.349	(1.000)	226214	40.0000	
	13 1,4 Dichlorobenzene	146	7.382	7.382	(1.004)	406823	50.0000	52
S	14 1,2 Dichlorobenzene-d4	152	7.630	7.630	(1.038)	239356	50.0000	52
	16 1,2-Dichlorobenzene	146	7.652	7.652	(1.041)	370584	50.0000	53
	17 2-Methylphenol	108	7.835	7.835	(1.066)	386149	50.0000	53
	18 3,3'-oxybis(1-Chloropropane)	45	7.890	7.890	(1.073)	745952	50.0000	58
	20 4-Methylphenol	108	8.138	8.138	(1.107)	394986	50.0000	54
	19 N-Nitroso-di-n-propylamine	70	8.138	8.138	(1.107)	268677	50.0000	49
	21 Hexachloroethane	117	8.278	8.278	(1.126)	200526	50.0000	54
S	22 Nitrobenzene-d5	82	8.386	8.386	(0.860)	473202	50.0000	52
	23 Nitrobenzene	77	8.419	8.419	(0.864)	450798	50.0000	52
	24 Isophorone	82	8.654	8.654	(0.912)	840906	50.0000	50
	25 2-Nitrophenol	139	9.024	9.024	(0.926)	255040	50.0000	50
	26 2,4-Dimethylphenol	107	9.153	9.153	(0.939)	370899	50.0000	49
	27 bis(2-Chloroethoxy)methane	93	9.348	9.348	(0.959)	521684	50.0000	52
	29 2,4-Dichlorophenol	162	9.499	9.499	(0.975)	299810	50.0000	50
	30 1,2,4-Trichlorobenzene	180	9.650	9.650	(0.990)	304458	50.0000	50
*	31 Naphthalene-d8	136	9.747	9.747	(1.000)	827554	40.0000	
	32 Naphthalene	128	9.791	9.791	(1.004)	1054431	50.0000	51

Data File: S1D0585.D
Report Date: 06-Sep-2002 10:53

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	33 4-Chloroaniline	127	9.920	9.920	(1.018)	496268	50.0000	51
	34 Hexachlorobutadiene	225	10.061	10.061	(1.032)	149922	50.0000	49
	35 4 Chloro-3-Methylphenol	107	10.914	10.914	(1.120)	337392	50.0000	52
	36 2-Methylnaphthalene	142	11.173	11.173	(1.146)	673281	50.0000	51
	38 Hexachlorocyclopentadiene	237	11.497	11.497	(0.868)	116693	50.0000	34
	39 2,4,6-Trichlorophenol	196	11.746	11.746	(0.887)	209455	50.0000	49
	40 2,4,5-Trichlorophenol	196	11.810	11.810	(0.892)	212033	50.0000	50
S	41 2-Fluorobiphenyl	172	11.929	11.929	(0.901)	647226	50.0000	50
	42 2-Chloronaphthalene	162	12.135	12.135	(0.916)	521925	50.0000	50
	43 2-Nitroaniline	65	12.372	12.372	(0.934)	244930	50.0000	51
	44 Dimethylphthalate	163	12.793	12.793	(0.966)	709832	50.0000	50
	45 2,6-Dinitrotoluene	165	12.891	12.891	(0.973)	183956	50.0000	50
	46 Acenaphthylene	152	12.955	12.955	(0.978)	952223	50.0000	51
	47 3-Nitroaniline	138	13.204	13.204	(0.997)	235038	50.0000	50
*	48 Acenaphthene-d10	164	13.247	13.247	(1.000)	391734	40.0000	
	49 Acenaphthene	153	13.312	13.312	(1.005)	556114	50.0000	50
	50 2,4 Dinitrophenol	184	13.420	13.420	(1.013)	99814	50.0000	39
	51 4-Nitrophenol	109	13.593	13.593	(1.026)	98331	50.0000	50
	53 2,4 Dinitrotoluene	165	13.690	13.690	(1.033)	224300	50.0000	51
	52 Dibenzofuran	168	13.668	13.668	(1.032)	809145	50.0000	51
	54 Diethylphthalate	149	14.230	14.230	(1.074)	752573	50.0000	52
	56 4-Chlorophenyl-phenylether	204	14.403	14.403	(1.087)	292408	50.0000	50
	55 Fluorene	166	14.360	14.360	(1.084)	626689	50.0000	51
	57 4-Nitroaniline	138	14.446	14.446	(1.091)	227119	50.0000	51
	58 4,6-Dinitro-2-methylphenol	198	14.511	14.511	(0.894)	139647	50.0000	43
	59 N-Nitrosodiphenylamine	169	14.651	14.651	(0.902)	414988	50.0000	50
S	60 2,4,6-Tribromophenol	330	14.846	14.846	(0.914)	105315	50.0000	48
	61 4-Bromophenyl phenylether	248	15.386	15.386	(0.947)	159861	50.0000	49
	62 Hexachlorobenzene	284	15.461	15.461	(0.952)	186886	50.0000	50
	63 Pentachlorophenol	266	15.872	15.872	(0.977)	126302	50.0000	47
*	64 Phenanthrene-d10	188	16.239	16.239	(1.000)	637270	40.0000	
	65 Phenanthrene	178	16.293	16.293	(1.003)	838204	50.0000	51(H)
	66 Anthracene	178	16.390	16.390	(1.009)	866432	50.0000	52
	67 Carbazole	167	16.747	16.747	(1.031)	826947	50.0000	52
	68 Di-n-butylphthalate	149	17.557	17.557	(1.081)	1308319	50.0000	53
	69 Fluoranthene	202	18.691	18.691	(1.151)	922128	50.0000	52
	70 Pyrene	202	19.134	19.134	(0.884)	914878	50.0000	49
S	71 Terphenyl-d14	244	19.523	19.523	(0.904)	582044	50.0000	49
	72 Butylbenzylphthalate	149	20.570	20.570	(0.953)	607322	50.0000	50
	74 3,3'-Dichlorobenzidine	252	21.564	21.564	(0.999)	259138	50.0000	48
	75 Benzo(a)anthracene	228	21.564	21.564	(0.999)	746972	50.0000	49
*	76 Chrysene-d12	240	21.586	21.586	(1.000)	477198	40.0000	
	78 bis(2-Ethylhexyl)phthalate	149	21.780	21.780	(1.009)	797647	50.0000	51
	77 Chrysene	228	21.640	21.640	(1.002)	682706	50.0000	48
	79 Di-n-octylphthalate	149	23.033	23.033	(0.950)	1369096	50.0000	56
	80 Benzo(b)fluoranthene	252	23.584	23.584	(0.973)	635367	50.0000	49
	81 Benzo(k)fluoranthene	252	23.638	23.638	(0.975)	692225	50.0000	53

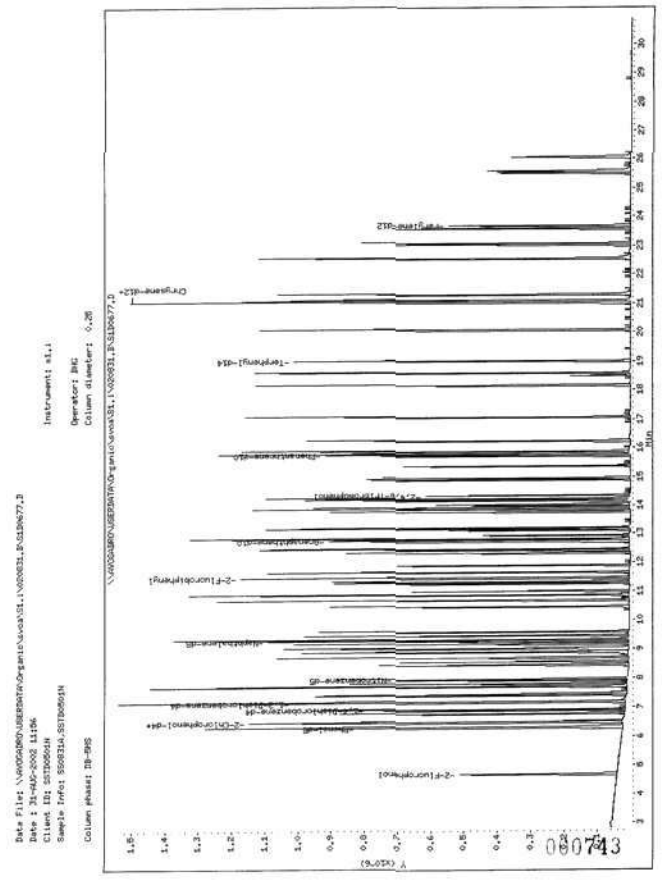
Data File: S1D0585.D
Report Date: 06-Sep-2002 10:53

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	82 Benzo(a)pyrene	252	24.146	24.146	(0.996)	588391	50.0000	50
*	83 Perylene-d12	264	24.243	24.243	(1.000)	323322	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	26.360	26.360	(1.087)	453405	50.0000	47
	85 Dibenzo(a,h)anthracene	278	26.425	26.425	(1.090)	450511	50.0000	48
	86 Benzo(g,h,i)perylene	276	26.997	26.997	(1.114)	418914	50.0000	46

QC Flag Legend

H - Operator selected an alternate compound hit.

Sms 4/14/03



Data File: S1D0677.D
Report Date: 04-Sep-2002 14:42

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0677.D
Lab Smp Id: SS0831A
Inj Date : 31-AUG-2002 11:56
Operator : DHC
Smp Info : SS0831A,SSTD0501N
Misc Info : 2,3,SSTD050,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1_8270C.m
Meth Date : 31-Aug-2002 12:45 mtl
Cal Date : 26-AUG-2002 21:07
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.03
Processing Host: TARGET10

Client Smp ID: SSTD0501N

Inst ID: s1.i

Quant Type: ISTD
Cal File: S1D0561.D
Continuing Calibration Sample

Compound Sublist: 8270C.sub

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ng)
$	3 2-Fluorophenol	112	4.691	4.691 (0.678)	319139	50.0000		42
$	5 Phenol-d5	99	6.569	6.569 (0.952)	496888	50.0000		47
	6 Phenol	94	6.833	6.833 (0.957)	484680	50.0000		48
	8 bis(2-Chloroethyl)Ether	93	6.484	6.484 (0.938)	367881	50.0000		48
$	9 2-Chlorophenol-d4	132	6.699	6.695 (0.969)	402799	50.0000		48
	10 2-Chlorophenol	128	6.897	6.897 (0.998)	387303	50.0000		48
	11 1,3-Dichlorobenzene	146	6.787	6.797 (0.998)	385412	50.0000		51
*	12 1,4-Dichlorobenzene-d4	152	6.908	6.903 (1.000)	318691	40.0000		
	13 1,4-Dichlorobenzene	146	6.898	6.898 (1.000)	388388	50.0000		52
$	14 1,2-Dichlorobenzene-d4	152	7.165	7.165 (1.038)	335770	50.0000		53
	16 1,2-Dichlorobenzene	146	7.189	7.187 (1.042)	367059	50.0000		51
	17 2-Methylphenol	108	7.405	7.403 (1.073)	362041	50.0000		52
	18 2,2'-oxybis(1-Chloropropane)	45	7.484	7.458 (1.080)	406224	50.0000		47
	20 4-Methylphenol	108	7.705	7.705 (1.116)	358786	50.0000		51
	19 N-Nitroso-di-n-Propylamine	70	7.484	7.484 (1.114)	259461	50.0000		49
	21 Hexachloroethane	117	7.813	7.833 (1.131)	304824	50.0000		48
$	22 Nitrobenzene-d5	82	7.931	7.931 (0.955)	450910	50.0000		50
	23 Nitrobenzene	77	7.964	7.964 (0.849)	413850	50.0000		48
	24 Isophorone	82	8.450	8.450 (0.910)	762817	50.0000		46
	25 2-Nitrophenol	139	8.569	8.569 (0.923)	248588	50.0000		48
	26 2,4-Dimethylphenol	107	8.709	8.709 (0.938)	345836	50.0000		49
	27 bis(2-Chloroethoxy)methane	93	8.904	8.904 (0.959)	488833	50.0000		50
	28 2,4-Dichlorophenol	162	9.033	9.033 (0.973)	298590	50.0000		53
	30 1,2,4-Trichlorobenzene	180	9.194	9.194 (0.990)	315793	50.0000		
*	31 Naphthalene-d8	136	9.287	9.282 (1.000)	930363	40.0000		
	32 Naphthalene	128	9.325	9.328 (1.005)	1021884	50.0000		50

Data File: S1D0677.D
Report Date: 04-Sep-2002 14:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ng)
	33 4-Chloroaniline	127	9.465	9.465 (1.020)	470044	50.0000		42
	34 Hexachlorobutadiene	225	9.583	9.595 (1.034)	194447	50.0000		52
	35 4-Chloro-3-Methylphenol	107	10.459	10.459 (1.127)	320310	50.0000		49
	36 2-Methylnaphthalene	142	10.647	10.657 (1.152)	670864	50.0000		51(M)
	38 Hexachlorocyclopentadiene	237	11.010	11.010 (0.863)	162614	40.0000		46
	39 2,4,6-Trichlorophenol	196	11.368	11.369 (0.893)	209350	50.0000		50
	40 2,4,5-Trichlorophenol	196	11.534	11.534 (0.888)	214526	50.0000		51
$	41 2-Fluorobiphenyl	172	11.666	11.666 (0.898)	435545	50.0000		53
	43 2-Chloronaphthalene	162	11.847	11.847 (0.913)	698731	50.0000		49
	42 2-Nitroaniline	65	11.838	11.838 (0.893)	222687	50.0000		49
	44 Dimethylphthalate	163	12.328	12.328 (0.948)	881894	50.0000		49
	46 2,6-Dinitrotoluene	165	12.435	12.425 (0.974)	178405	50.0000		47
	45 Acenaphthylene	152	12.687	12.657 (0.976)	920001	50.0000		50
	47 3-Nitroaniline	138	12.787	12.787 (0.985)	215305	50.0000		47
*	48 Acenaphthene-d10	164	12.760	12.760 (1.000)	383049	40.0000		
	49 Acenaphthene	153	12.826	12.826 (1.008)	542357	50.0000		50
	50 2,4-Dinitrophenol	184	12.965	12.963 (1.014)	119491	50.0000		48
	51 4-Nitrophenol	109	13.137	13.137 (1.029)	84712	50.0000		49(M)
	52 2,4-Dinitrotoluene	165	13.213	13.213 (1.036)	220634	50.0000		51
	53 Dibenzofuran	168	13.170	13.170 (1.032)	767034	50.0000		48
	54 Diethylphthalate	149	13.764	13.784 (1.079)	718025	50.0000		50
	55 4-Chlorophenyl-phenylether	204	13.915	13.918 (1.091)	292269	50.0000		51
	56 Fluorene	166	13.881	13.861 (1.066)	803207	50.0000		50
	57 4-Nitroaniline	138	13.968	13.859 (1.094)	267231	50.0000		47
	58 4,6-Dinitro-2-methylphenol	198	14.025	14.023 (1.088)	155195	50.0000		49
	59 N-Nitrosodiphenylamine	169	14.164	14.164 (0.995)	406360	50.0000		50(M)
$	60 2,4,6-Tribromophenol	330	14.337	14.337 (0.906)	108937	50.0000		50
	61 4-Bromophenyl-phenylether	248	14.488	14.488 (0.941)	141485	50.0000		50(M)
	62 Hexachlorobenzene	284	14.853	14.853 (0.965)	149091	50.0000		51
	63 Pentachlorophenol	266	15.343	15.343 (0.973)	126833	50.0000		49
*	64 Phenanthrene-d10	188	15.719	15.719 (1.000)	455474	40.0000		(M)
	65 Phenanthrene	178	15.773	15.773 (0.987)	833675	50.0000		50(M)
	66 Anthracene	178	15.870	15.870 (1.003)	824734	50.0000		51
	67 Carbazole	167	16.227	16.227 (1.025)	772662	50.0000		50
	68 Di-n-butylphthalate	149	17.069	17.069 (1.078)	1211904	50.0000		50(M)
	69 Fluoranthene	202	18.188	18.190 (1.147)	899654	50.0000		50
	70 Pyrene	202	18.593	18.592 (0.884)	834631	50.0000		50
$	71 Terphenyl-d14	244	19.003	19.003 (0.903)	540445	50.0000		50
	72 Butylbenzylphthalate	149	20.072	20.072 (0.954)	940892	50.0000		49
	74 3,3'-Dichlorobenzidine	252	21.034	21.034 (1.000)	316589	50.0000		44
	73 Benzo(a)Anthracene	228	21.013	21.012 (0.999)	886364	50.0000		49
*	76 Chrysene-d12	240	21.134	21.134 (1.000)	432797	40.0000		
	75 Bis(2-Ethylhexyl)phthalate	149	21.293	21.293 (1.012)	702031	50.0000		49
	77 Chrysene	228	21.088	21.088 (1.003)	867097	50.0000		47
	79 Di-n-octylphthalate	149	22.535	22.535 (0.953)	1197497	50.0000		48
	80 Benzo(b)fluoranthene	252	23.031	23.031 (0.973)	839065	50.0000		49
	81 Benzo(k)fluoranthene	252	23.075	23.075 (0.975)	884871	50.0000		54

Data File: S1D0677.D
Report Date: 04-Sep-2002 14:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	AMOUNTS ON-COL (ng)
	82 Benzo(a)pyrene	252	23.572	23.573 (0.996)	699276	50.0000		50
*	83 Perylene-d12	264	23.669	23.669 (1.000)	370004	40.0000		
	84 Indene(1,2,3-cd)pyrene	276	26.537	26.537 (1.078)	359258	50.0000		44(M)
	85 Dibenz(a,h)Anthracene	278	26.581	26.581 (1.081)	382413	50.0000		46
	86 Benzo(g,h,i)perylene	276	26.886	26.858 (1.101)	333525	50.0000		43

QC Flag Legend

M - Operator selected an alternate compound hit.

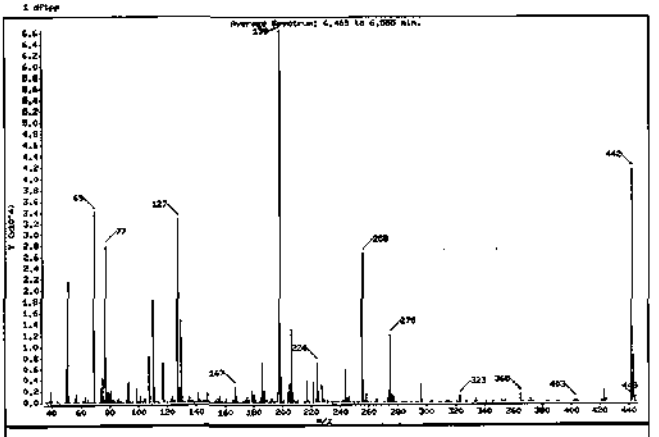
9/4/02

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020269.B\S1D0555.D
Page 2

Date : 26-AUG-2002 17:29

Client ID: DFTPP1E
Instrument: S1.i
Sample Info: ST0826A,DFTPP1E
Operator: CS
Column phase:
Column diameter: 2.00
1 dftpp

Average Spectrum: 4,465 to 6,005 min.



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of Mass 198	22.39
68	Less than 2.00% of Mass 69	0.02 (0.04)
69	Mass 69 relative abundance	51.43
70	Less than 2.00% of Mass 69	0.14 (0.27)
127	40.00 - 60.00% of Mass 198	49.46
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.91
275	10.00 - 30.00% of mass 198	18.26
365	Greater than 1.00% of mass 198	1.36
441	Present, but less than mass 443	9.97
442	40.00 - 55.00% of mass 198	42.69
443	17.00 - 23.00% of mass 442	12.36 (19.72)

Data File: \\AVOGADRO\USERDATA\Organic\avoa\S1.1\020828A.B\S1D0858.D

Date : 26-AUG-2002 17:29

Client ID: DFTPPS1E

Instrument: S1.1

Sample Info: ST0828A.DFTPPS1E

Operator: CS

Column phase:

Column diameter: 2.00

Data File: S1D0858.D
Spectrum: Average Spectrum: 6.469 to 6.866 min.
Location of Maximum: 198.00
Number of points: 277

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	302	121.00	13	194.00	134	278.00	344
37.00	113	122.00	581	195.00	18	279.00	18
38.00	369	123.00	897	196.00	1772	282.00	96
39.00	1762	124.00	447	198.00	66400	284.00	63
40.00	356	125.00	379	199.00	4819	288.00	157
41.00	42	127.00	22840	200.00	311	286.00	12
44.00	372	128.00	8573	201.00	317	289.00	16
45.00	11	129.00	14769	203.00	384	290.00	13
49.00	179	130.00	1240	204.00	1869	292.00	19
50.00	6066	131.00	206	205.00	3296	293.00	232
51.00	21904	132.00	162	206.00	13198	294.00	40
52.00	1145	134.00	386	207.00	1946	296.00	3183
53.00	24	135.00	936	208.00	430	297.00	424
55.00	114	136.00	372	209.00	118	301.00	32
56.00	709	137.00	480	210.00	112	302.00	36
57.00	1856	138.00	91	211.00	838	303.00	380
58.00	69	139.00	42	213.00	27	304.00	82
61.00	243	140.00	20	215.00	126	308.00	29
62.00	320	141.00	1616	216.00	81	309.00	13
63.00	901	142.00	529	217.00	3723	310.00	31
64.00	137	143.00	350	218.00	460	313.00	12
65.00	459	144.00	86	219.00	27	314.00	131
66.00	32	145.00	81	221.00	3631	315.00	335
67.00	14	146.00	855	223.00	773	316.00	196
68.00	15	147.00	730	224.00	7189	317.00	13
69.00	34152	148.00	1721	225.00	1767	321.00	87
70.00	53	149.00	337	227.00	2998	322.00	33
73.00	192	150.00	100	229.00	428	323.00	1020
74.00	2869	151.00	191	229.00	888	324.00	159
75.00	4217	152.00	40	230.00	68	327.00	148
76.00	833	153.00	446	231.00	248	328.00	77
77.00	27928	154.00	302	232.00	36	332.00	66
78.00	1862	155.00	373	233.00	34	333.00	32
79.00	2036	156.00	1184	234.00	177	334.00	682
80.00	1894	157.00	229	235.00	196	335.00	142

Data File: \\AVOGADRO\USERDATA\Organic\avoa\S1.1\020828B.B\S1D0858.D

Date : 26-AUG-2002 17:29

Client ID: DFTPPS1E

Instrument: S1.1

Sample Info: ST0828A.DFTPPS1E

Operator: CS

Column phase:

Column diameter: 2.00

Data File: S1D0858.D
Spectrum: Average Spectrum: 6.469 to 6.866 min.
Location of Maximum: 198.00
Number of points: 277

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	1982	158.00	276	236.00	111	341.00	108
82.00	488	159.00	186	237.00	152	342.00	11
83.00	449	160.00	470	238.00	11	346.00	204
84.00	167	161.00	114	239.00	67	347.00	16
85.00	347	162.00	174	240.00	73	352.00	310
86.00	622	163.00	26	241.00	183	353.00	204
87.00	261	164.00	13	242.00	376	354.00	310
88.00	101	165.00	822	243.00	289	358.00	43
89.00	33	166.00	418	244.00	6918	345.00	1302
91.00	488	167.00	2761	245.00	772	346.00	186
92.00	837	168.00	1262	246.00	972	371.00	69
93.00	3879	169.00	214	247.00	211	372.00	567
94.00	265	170.00	73	248.00	39	373.00	122
95.00	89	171.00	110	249.00	180	382.00	142
96.00	146	172.00	223	250.00	14	384.00	29
98.00	2488	173.00	285	251.00	24	390.00	69
99.00	1943	174.00	822	252.00	52	391.00	48
100.00	199	175.00	966	253.00	38	392.00	22
101.00	1098	176.00	323	255.00	26408	401.00	13
102.00	47	177.00	472	256.00	3542	402.00	203
103.00	260	179.00	2127	257.00	306	403.00	312
104.00	490	180.00	1277	258.00	1017	404.00	91
105.00	680	181.00	642	259.00	223	421.00	258
107.00	8213	182.00	109	260.00	17	422.00	242
108.00	1244	183.00	37	261.00	37	423.00	2085
110.00	18304	184.00	189	264.00	74	424.00	417
111.00	2641	186.00	956	265.00	554	425.00	17
112.00	307	186.00	7238	266.00	142	441.00	6422
113.00	102	187.00	2051	270.00	11	442.00	44624
114.00	25	188.00	580	271.00	42	443.00	8269
115.00	11	189.00	485	273.00	824	444.00	773
117.00	7040	190.00	87	274.00	2193	445.00	22
118.00	496	191.00	266	275.00	12135		
119.00	88	192.00	607	276.00	1483		
120.00	101	193.00	645	277.00	699		

Data File: \\AVOGADRO\USERDATA\Organic\avoa\S1.1\020828B.B\S1D0858.D

Date : 26-AUG-2002 17:29

Client ID: DFTPPS1E

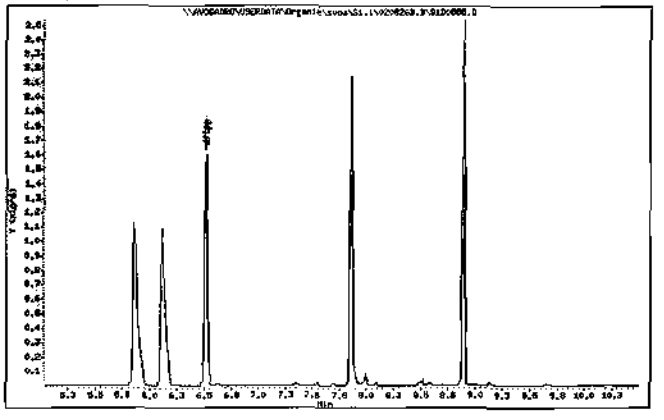
Instrument: S1.1

Sample Info: ST0828A,DFTPPS1E

Operator: CS

Column phase:

Column diameter: 2.00



Data File: \\AVOGADRO\USERDATA\Organic\avoa\S1.1\020827.B\S1D0564.D

Date : 27-AUG-2002 05:53

Client ID: DFTPPS1F

Instrument: S1.1

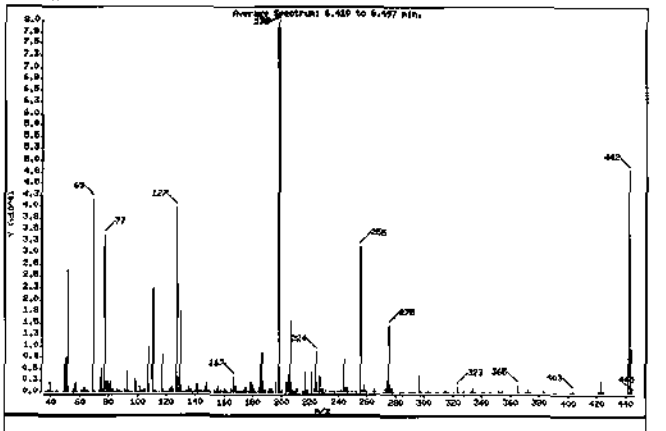
Sample Info: ST0827A.DFTPPS1F

Operator: DHG

Column phase:

Column diameter: 2.00

1 dctyp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
196	Base Peak, 100% relative abundance	100.00
81	30.00 - 60.00% of mass 198	32.80
66	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	51.90
70	Less than 2.00% of mass 69	0.14 (0.27)
127	40.00 - 60.00% of mass 198	49.57
197	Less than 1.00% of mass 198	0.00
198	5.00 - 9.00% of mass 198	6.76
275	10.00 - 30.00% of mass 198	17.99
365	Greater than 1.00% of mass 198	1.84
441	Present, but less than mass 443	9.48
442	40.00 - 99.99% of mass 196	89.88
443	17.00 - 23.00% of mass 442	12.04 (20.10)

Date : 27-AUG-2002 09:53
Client ID: BFTPP1F
Instrument: S1.i
Sample Info: STD827A,BFTPP1F
Operator: DMG
Column phase:
Column diameter: 2.00

Data File: S1D0564.D
Spectrum: Average Spectrum: 6.410 to 6.497 min.
Location of Maximum: 198.00
Number of points: 290

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	186	124.00	535	199.00	5416	284.00	71
37.00	129	125.00	465	200.00	372	285.00	198
38.00	429	127.00	39688	201.00	370	286.00	14
39.00	2249	128.00	7084	203.00	461	289.00	29
40.00	555	129.00	17552	204.00	2207	290.00	16
41.00	131	130.00	1494	205.00	3804	291.00	24
42.00	57	131.00	259	206.00	15498	292.00	43
44.00	632	132.00	158	207.00	2104	293.00	248
45.00	49	133.00	46	208.00	509	294.00	86
49.00	182	134.00	417	209.00	164	296.00	3620
50.00	7317	135.00	2164	210.00	101	297.00	818
51.00	24296	136.00	468	211.00	657	298.00	26
52.00	1343	137.00	788	213.00	31	301.00	19
53.00	83	138.00	82	218.00	146	302.00	48
55.00	179	139.00	70	216.00	39	303.00	421
56.00	947	140.00	104	217.00	4390	304.00	96
57.00	1561	141.00	1536	218.00	539	308.00	28
58.00	78	142.00	418	219.00	39	309.00	12
61.00	376	143.00	417	221.00	4906	310.00	42
62.00	388	144.00	163	223.00	973	313.00	13
63.00	1053	145.00	84	224.00	8603	314.00	178
64.00	188	146.00	312	226.00	2038	315.00	384
65.00	541	147.00	878	225.00	29	316.00	204
66.00	66	148.00	2118	227.00	1427	317.00	25
69.00	41852	149.00	398	229.00	508	321.00	115
70.00	113	150.00	98	229.00	672	323.00	1260
73.00	266	151.00	291	230.00	95	324.00	229
74.00	3157	153.00	851	231.00	315	327.00	202
75.00	5201	154.00	421	232.00	46	328.00	99
76.00	704	155.00	988	233.00	58	332.00	78
77.00	33832	156.00	1352	234.00	190	333.00	108
78.00	2410	157.00	307	235.00	220	334.00	781
79.00	2471	158.00	329	236.00	144	335.00	160
80.00	1832	159.00	213	237.00	236	340.00	11
81.00	2424	160.00	842	238.00	14	341.00	120

Date : 27-AUG-2002 09:53
Client ID: BFTPP1F
Instrument: S1.i
Sample Info: STD827A,BFTPP1F
Operator: DMG
Column phase:
Column diameter: 2.00

Data File: S1D0564.D
Spectrum: Average Spectrum: 6.410 to 6.497 min.
Location of Maximum: 198.00
Number of points: 290

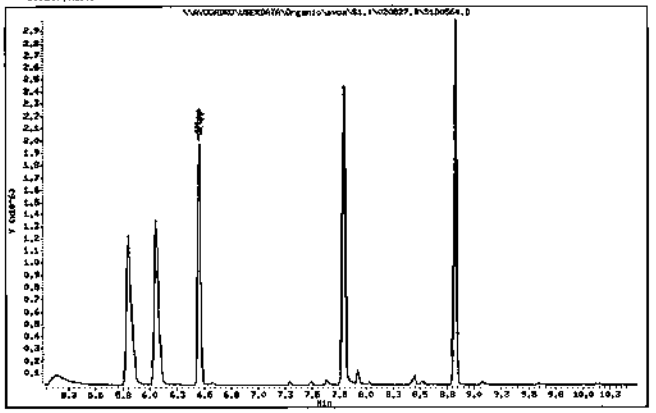
m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	888	166.00	776	239.00	108	342.00	12
85.00	881	162.00	240	240.00	74	348.00	260
84.00	189	163.00	84	241.00	169	347.00	31
85.00	392	164.00	60	242.00	449	352.00	138
86.00	821	165.00	662	243.00	164	353.00	232
87.00	297	166.00	506	244.00	6528	354.00	363
88.00	542	167.00	3246	245.00	927	355.00	62
89.00	84	168.00	1529	246.00	1167	360.00	1470
91.00	611	169.00	276	247.00	245	346.00	193
92.00	648	170.00	100	248.00	46	370.00	31
93.00	6369	171.00	130	249.00	250	374.00	87
94.00	364	172.00	288	250.00	39	372.00	438
95.00	76	173.00	345	251.00	48	373.00	143
96.00	169	174.00	628	252.00	80	383.00	167
98.00	3011	175.00	1152	253.00	128	384.00	36
99.00	2368	176.00	410	255.00	31328	390.00	74
100.00	196	177.00	966	256.00	4410	391.00	48
101.00	1324	178.00	29	257.00	377	392.00	31
102.00	68	179.00	3466	258.00	1746	401.00	15
103.00	457	180.00	1612	259.00	282	402.00	248
104.00	820	181.00	703	260.00	31	403.00	336
105.00	816	182.00	108	261.00	84	404.00	110
107.00	9698	183.00	86	264.00	73	421.00	217
109.00	1831	184.00	210	260.00	670	422.00	214
110.00	22360	185.00	1143	266.00	167	422.00	2436
111.00	3192	186.00	9880	270.00	28	424.00	459
112.00	346	187.00	2437	271.00	73	426.00	29
113.00	98	188.00	718	272.00	65	441.00	7594
115.00	13	189.00	866	273.00	979	442.00	47944
117.00	8295	190.00	84	274.00	2880	443.00	9627
118.00	805	191.00	245	275.00	14407	444.00	890
119.00	72	192.00	795	276.00	1916	445.00	36
120.00	117	193.00	766	277.00	1065		
121.00	15	194.00	184	278.00	169		
122.00	707	196.00	2178	279.00	13		

Date : 27-AUG-2002 09:53
Client ID: BFTPP1F
Instrument: S1.i
Sample Info: STD827A,BFTPP1F
Operator: DMG
Column phase:
Column diameter: 2.00

Data File: S1D0564.D
Spectrum: Average Spectrum: 6.410 to 6.497 min.
Location of Maximum: 198.00
Number of points: 290

m/z	Y	m/z	Y	m/z	Y	m/z	Y
123.00	1045	198.00	80064	283.00	117		

Date : 27-AUG-2002 09:53
Client ID: BFTPP1F
Instrument: S1.i
Sample Info: STD827A,BFTPP1F
Operator: DMG
Column phase:
Column diameter: 2.00



Date : 27-AUG-2002 22:12

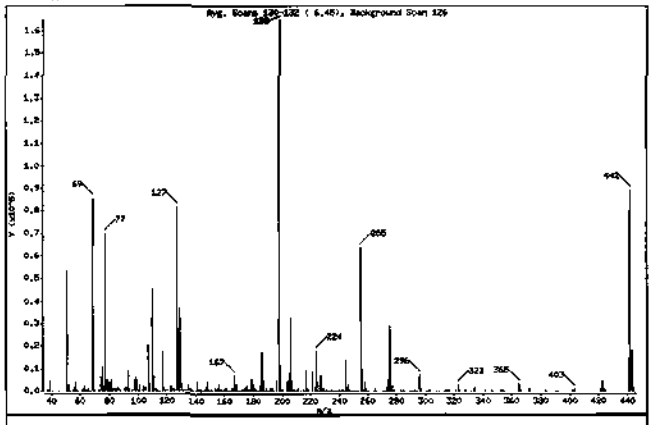
Client ID: DFTPP1C Instrument: S1.1

Sample Info: ST00278,DFTPP1C

Operator: BNS

Column phase: Column diameter: 2.00

1 dftpp



m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	32.46
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	81.88
70	Less than 2.00% of mass 69	0.16 (0.20)
127	40.00 - 60.00% of mass 198	49.64
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.39
275	10.00 - 30.00% of mass 198	17.57
365	Greater than 1.00% of mass 198	1.80
441	Present, but less than mass 443	9.76
442	40.00 - 95.00% of mass 198	84.11
443	17.00 - 23.00% of mass 442	10.92 (20.19)

Date : 27-AUG-2002 22:12

Client ID: DFTPP1C Instrument: S1.1

Sample Info: ST00278,DFTPP1C

Operator: BNS

Column phase: Column diameter: 2.00

Data File: S1D0584.D
Spectrum: Avg. Scans 130-132 (6.45), Background Scan 126
Location of Maximum: 198.00
Number of Points: 267

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	303	124.00	1157	192.00	1662	274.00	8549
38.00	715	125.00	1011	193.00	1523	275.00	20960
39.00	4387	127.00	61848	194.00	332	276.00	3767
41.00	157	129.00	6381	196.00	4409	277.00	2200
48.00	145	129.00	36664	198.00	164864	278.00	347
50.00	14943	130.00	3139	199.00	11396	283.00	298
51.00	53812	131.00	545	200.00	776	284.00	139
52.00	2699	132.00	312	201.00	707	285.00	373
53.00	76	133.00	129	203.00	901	286.00	42
55.00	325	134.00	943	204.00	4836	289.00	96
56.00	1769	138.00	2535	205.00	8607	290.00	36
57.00	3982	136.00	1046	206.00	32480	291.00	36
58.00	197	137.00	1259	207.00	4089	292.00	99
62.00	749	138.00	307	208.00	1041	293.00	820
62.00	796	139.00	163	209.00	338	294.00	96
63.00	2228	140.00	84	211.00	1294	296.00	7298
64.00	334	141.00	4040	213.00	90	297.00	1603
65.00	1211	142.00	1304	215.00	357	301.00	91
66.00	57	143.00	854	216.00	127	302.00	120
67.00	48	144.00	230	217.00	9090	303.00	878
69.00	86852	145.00	218	218.00	1147	304.00	221
70.00	226	146.00	705	219.00	93	308.00	106
73.00	829	147.00	1793	221.00	8761	310.00	86
74.00	6869	148.00	4949	223.00	1940	313.00	38
75.00	16735	149.00	811	224.00	17720	314.00	336
76.00	2007	150.00	284	225.00	4238	315.00	85
77.00	69960	151.00	878	227.00	7286	316.00	463
78.00	4898	152.00	98	228.00	1635	321.00	237
79.00	8001	153.00	1174	229.00	1493	323.00	2810
80.00	3729	154.00	914	230.00	234	324.00	863
81.00	8067	155.00	1995	231.00	618	327.00	483
82.00	1168	156.00	2890	232.00	104	328.00	228
83.00	1133	157.00	628	233.00	196	332.00	147
84.00	290	158.00	711	234.00	443	337.00	106
85.00	1156	159.00	487	238.00	465	224.00	1896

Date : 27-AUG-2002 22:12

Client ID: DFTPP1C Instrument: S1.1

Sample Info: ST00278,DFTPP1C

Operator: BNS

Column phase: Column diameter: 2.00

Data File: S1D0584.D
Spectrum: Avg. Scans 130-132 (6.45), Background Scan 126
Location of Maximum: 198.00
Number of Points: 267

m/z	Y	m/z	Y	m/z	Y	m/z	Y
86.00	1847	160.00	1111	236.00	306	338.00	366
87.00	696	161.00	1668	237.00	611	341.00	230
88.00	257	162.00	474	238.00	75	345.00	498
89.00	131	163.00	193	239.00	310	347.00	75
91.00	1179	164.00	157	240.00	243	352.00	718
92.00	1368	165.00	1325	241.00	399	357.00	486
93.00	8983	166.00	1024	242.00	866	354.00	696
94.00	863	167.00	6603	243.00	866	355.00	114
95.00	134	168.00	3222	244.00	14043	365.00	2748
96.00	309	169.00	859	245.00	1968	366.00	613
98.00	6120	170.00	220	246.00	2497	371.00	186
99.00	4722	171.00	266	247.00	499	372.00	1248
100.00	478	172.00	625	248.00	104	373.00	314
101.00	2581	173.00	734	249.00	478	383.00	296
102.00	176	174.00	1455	252.00	78	384.00	63
103.00	976	175.00	2391	251.00	92	390.00	140
104.00	1821	176.00	759	252.00	124	391.00	119
105.00	1649	177.00	1199	253.00	253	392.00	93
107.00	20312	178.00	66	255.00	62776	402.00	481
108.00	3129	179.00	5266	256.00	9328	403.00	762
110.00	45664	180.00	1347	257.00	774	404.00	229
111.00	6636	181.00	1647	258.00	3684	421.00	640
112.00	634	182.00	263	259.00	671	422.00	867
113.00	298	183.00	156	260.00	79	423.00	4537
114.00	84	184.00	483	261.00	90	424.00	896
115.00	191	185.00	2323	264.00	138	425.00	84
117.00	17064	186.00	17616	265.00	1397	441.00	14436
118.00	1316	187.00	8029	266.00	168	442.00	87224
119.00	158	188.00	413	270.00	42	443.00	18000
120.00	246	189.00	1096	271.00	141	444.00	1671
122.00	1476	190.00	185	272.00	82	445.00	94
123.00	2230	191.00	479	273.00	2010		

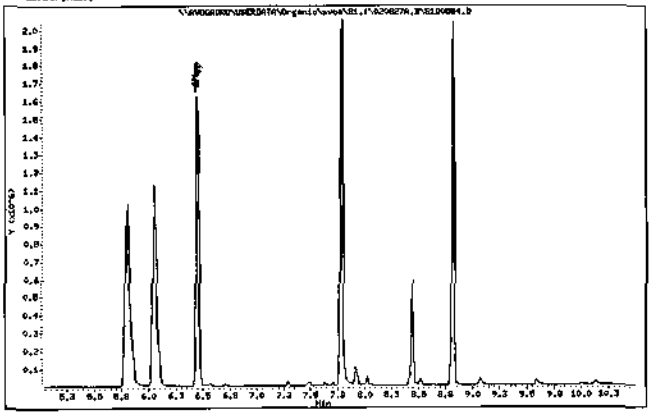
Date : 27-AUG-2002 22:12

Client ID: DFTPP1C Instrument: S1.1

Sample Info: ST00278,DFTPP1C

Operator: BNS

Column phase: Column diameter: 2.00



Data File: \\AVOGADRO\USERDATA\Organic\avoa\S1.i\020831.B\S1D0676.D

Date : 31-AUG-2002 11:37

Client ID: DFTPP1N

Instrument: S1.i

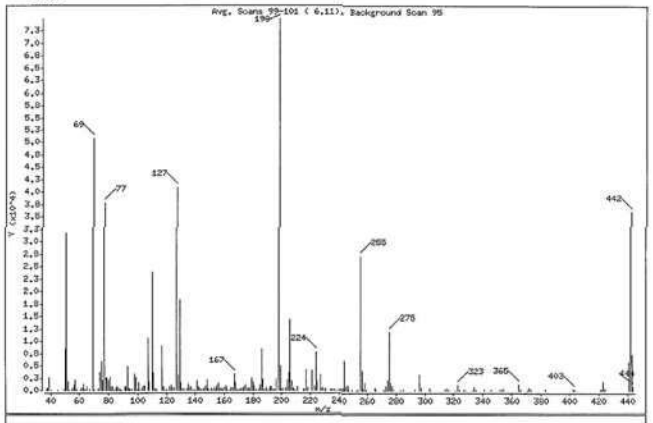
Sample Info: ST0831A,DFTPP1N

Operator: DHG

Column phase:

Column diameter: 2.00

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	42.30
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	67.76
70	Less than 2.00% of mass 69	0.27 (0.39)
127	40.00 - 60.00% of mass 198	54.63
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.68
275	10.00 - 30.00% of mass 198	18.89
365	Greater than 1.00% of mass 198	1.67
441	Present, but less than mass 443	7.64
442	40.00 - 99.99% of mass 198	48.18
443	17.00 - 23.00% of mass 442	9.64 (20.02)

Data File: \\AVOGADRO\USERDATA\Organic\avoa\S1.i\020831.B\S1D0676.D

Date : 31-AUG-2002 11:37

Client ID: DFTPP1N

Instrument: S1.i

Sample Info: ST0831A,DFTPP1N

Operator: DHG

Column phase:

Column diameter: 2.00

Data File: S1D0676.D
Spectrum: Avg. Scans 99-101 (6.11), Background Scan 98
Location of Maximum: 198.00
Number of points: 232

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	127	117.00	6926	179.00	2452	255.00	27160
38.00	467	118.00	645	180.00	1519	256.00	4002
39.00	2644	119.00	47	181.00	798	257.00	298
41.00	34	120.00	192	182.00	136	258.00	1568
45.00	68	122.00	738	184.00	218	259.00	233
49.00	136	123.00	1116	185.00	1007	265.00	595
50.00	8527	124.00	583	186.00	8214	266.00	96
51.00	31704	125.00	530	187.00	2261	271.00	111
52.00	1690	127.00	40946	188.00	214	272.00	38
53.00	37	128.00	3187	189.00	478	273.00	839
55.00	271	129.00	18224	190.00	34	274.00	2156
56.00	1062	130.00	1534	191.00	230	275.00	11908
57.00	2140	131.00	264	192.00	739	276.00	1542
58.00	122	132.00	93	193.00	769	277.00	916
61.00	382	134.00	431	194.00	130	278.00	117
62.00	460	135.00	1141	195.00	105	283.00	80
63.00	1267	136.00	497	196.00	2190	285.00	137
64.00	184	137.00	423	196.00	74982	291.00	200
65.00	674	138.00	103	199.00	5007	296.00	3132
67.00	90	139.00	48	200.00	390	297.00	473
69.00	50776	140.00	53	201.00	402	303.00	361
70.00	199	141.00	1982	203.00	475	304.00	79
73.00	341	142.00	665	204.00	2026	314.00	117
74.00	3672	143.00	397	208.00	3639	315.00	310
75.00	5090	144.00	119	206.00	14343	316.00	166
76.00	2014	145.00	113	207.00	1869	321.00	35
77.00	37904	146.00	333	208.00	460	323.00	1056
78.00	2648	147.00	807	209.00	135	324.00	204
79.00	2615	148.00	2153	210.00	69	327.00	198
80.00	1989	149.00	398	211.00	620	328.00	78
81.00	2657	150.00	79	215.00	177	333.00	48
82.00	661	151.00	291	216.00	145	334.00	607
83.00	669	152.00	39	217.00	4164	335.00	179
84.00	30	153.00	515	218.00	526	341.00	98
86.00	442	164.00	379	221.00	4001	346.00	186

Data File: \\AVOGADRO\USERDATA\Organic\avoa\S1.i\020831.B\S1D0676.D

Date : 31-AUG-2002 11:37

Client ID: DFTPP1N

Instrument: S1.i

Sample Info: ST0831A,DFTPP1N

Operator: DHG

Column phase:

Column diameter: 2.00

Data File: S1D0676.D
Spectrum: Avg. Scans 99-101 (6.11), Background Scan 98
Location of Maximum: 198.00
Number of points: 232

m/z	Y	m/z	Y	m/z	Y	m/z	Y
86.00	727	155.00	885	223.00	847	352.00	247
87.00	337	156.00	1300	224.00	7994	353.00	170
88.00	149	157.00	284	225.00	1949	354.00	270
89.00	36	158.00	299	227.00	3156	365.00	1264
91.00	679	159.00	222	228.00	427	366.00	146
92.00	734	160.00	851	229.00	597	371.00	34
93.00	4768	161.00	782	230.00	40	372.00	495
94.00	336	162.00	208	231.00	271	373.00	97
95.00	127	163.00	34	234.00	176	383.00	126
96.00	164	164.00	44	235.00	227	402.00	154
98.00	3259	165.00	863	236.00	114	403.00	211
99.00	2535	166.00	468	237.00	229	404.00	79
100.00	235	167.00	3301	239.00	83	421.00	202
101.00	1490	168.00	1496	240.00	70	422.00	189
102.00	38	169.00	248	241.00	168	423.00	1744
103.00	486	170.00	85	242.00	413	424.00	329
104.00	909	171.00	155	243.00	442	441.00	5730
105.00	828	172.00	307	244.00	6020	442.00	36104
107.00	10607	173.00	348	245.00	850	443.00	7229
108.00	1681	174.00	638	246.00	1015	444.00	624
110.00	23904	175.00	1103	247.00	193		
111.00	3418	176.00	395	249.00	209		
112.00	359	177.00	547	252.00	38		
113.00	148	178.00	215	253.00	90		

Data File: \\AVOGADRO\USERDATA\Organic\avoa\S1.i\020831.B\S1D0676.D

Date : 31-AUG-2002 11:37

Client ID: DFTPP1N

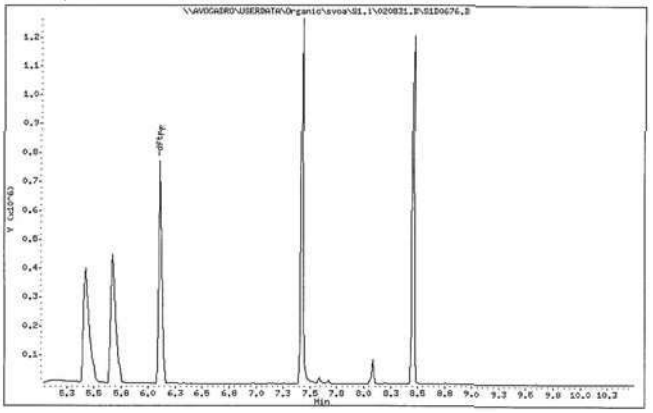
Instrument: S1.i

Sample Info: ST0831A,DFTPP1N

Operator: DHG

Column phase:

Column diameter: 2.00



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK1G

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (Soil/water) WATER Lab Sample ID: S0821-BW1
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0586
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	20	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene		

FORM I SV-1

000764

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK1G

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (Soil/water) WATER Lab Sample ID: S0821-BW1
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0586
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

000765

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SBLK1G

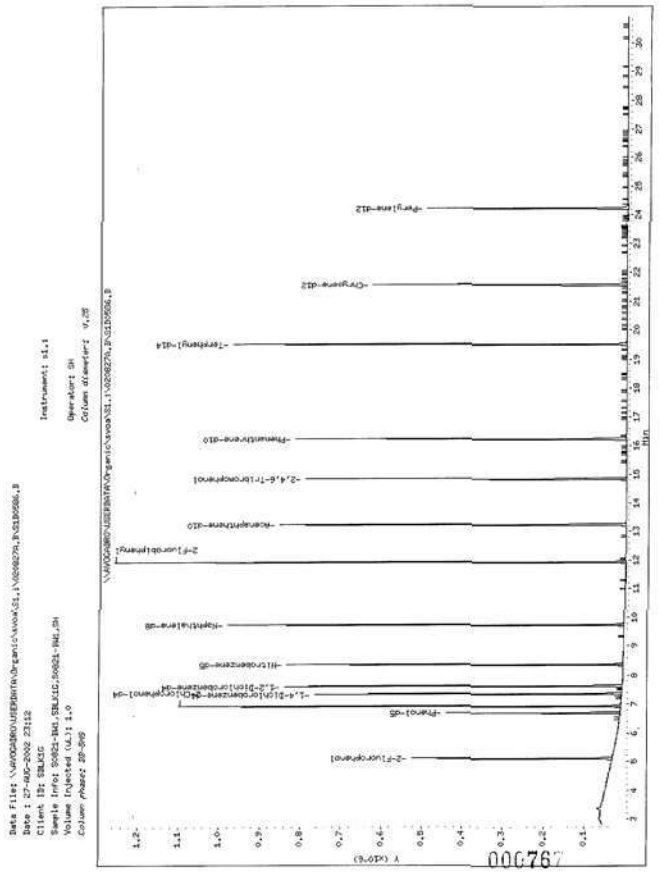
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (Soil/water) WATER Lab Sample ID: S0821-BW1
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0586
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

000766



000767

Data File: S1D0586.D
Report Date: 04-Sep-2002 14:44

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827A.B\S1D0586.D
Lab Smp Id: S0821-BW1 Client Smp ID: SBLK1G
Inj Date : 27-AUG-2002 23:12
Operator : SH Inst ID: s1.i
Smp Info : S0821-BW1,SBLK1G,S0821-BW1,SH
Misc Info : 3,,BLANK,1,,,,,,,21-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827A.B\S1_8270C.m
Meth Date : 04-Sep-2002 14:31 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	QUANT #10 MASS	RT	REL RT	RRT SD	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)	
9	1 2-Fluorophenol	112	5.112	5.114	(0.696)	297760	39.3749	39	
9	5 Phenol-d5	99	6.710	6.710	(0.913)	235581	37.3414	37	
9	9 2-Chlorophenol-d4	132	6.937	6.939	(0.944)	369197	72.5142	72	
*	12 1,4-Dichlorobenzene-d4	152	7.348	7.349	(1.000)	181621	40.0000		
9	14 1,2-Dichlorobenzene-d4	152	7.616	7.620	(1.037)	218497	39.5058	40(R)	
9	22 Nitrobenzene-d5	82	8.374	8.388	(0.858)	410292	53.7328	54(R)	
*	31 Naphthalene-d8	136	9.746	9.747	(1.000)	669900	40.0000		
9	41 2-Fluorobiphenyl	172	11.328	11.329	(0.901)	949216	57.9844	58	
*	48 Acenaphthene-d10	164	12.249	12.247	(1.000)	315655	40.0000		
9	60 2,4,6-Tribromophenol	330	14.038	14.046	(0.914)	136709	78.3642	78	
*	64 Phenanthrene-d10	188	14.227	14.229	(1.000)	633134	40.0000		
9	71 Terphenyl-d14	244	15.521	15.522	(0.908)	498854	53.9783	57	
*	78 Chrysene-d12	240	21.573	21.586	(1.000)	372134	40.0000		
*	89 Perylene-d12	264	24.231	24.243	(1.000)	228411	40.0000		

SVOA 9/4/02 JR

Data File: S1D0586.D
Report Date: 04-Sep-2002 14:44

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: S1D0586.D
Report Date: 04-Sep-2002 14:44

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827A.B\S1D0586.D
Lab Smp Id: S0821-BW1 Client Smp ID: SBLK1G
Inj Date : 27-AUG-2002 23:12
Operator : SH Inst ID: s1.i
Smp Info : S0821-BW1,SBLK1G,S0821-BW1,SH
Misc Info : 3,,BLANK,1,,,,,,,21-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827A.B\S1_8270C.m
Meth Date : 04-Sep-2002 14:31 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

18
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK1Q

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: S0825-BW1
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0678
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK1Q

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: S0825-BW1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0678

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/25/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SBLK1Q

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: S0825-BW1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0678

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/25/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02

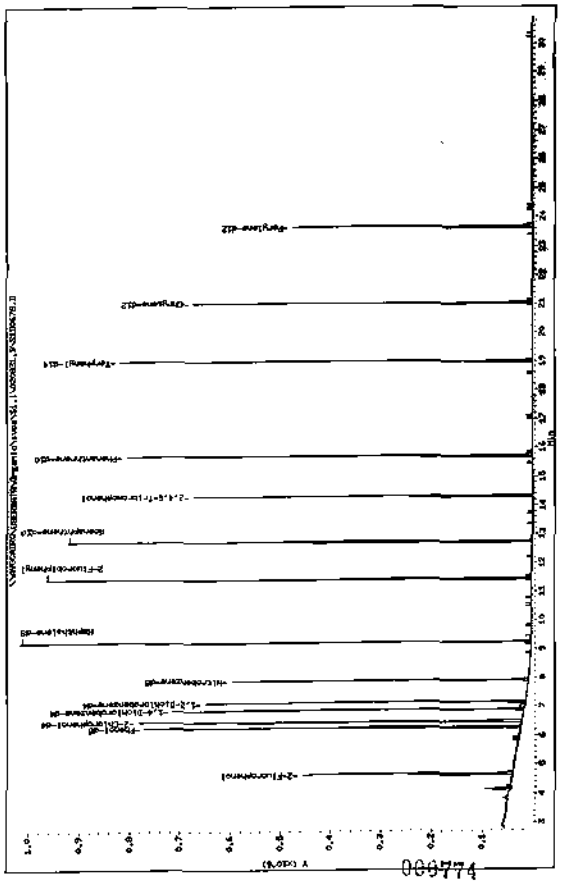
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC



Data File: S1D0678.D
Report Date: 04-Sep-2002 14:42

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\evoa\S1.i\020831.B\S1D0678.D
Lab Smp Id: S0825-BW1 Client Smp ID: SBLK1Q
Inj Date : 31-AUG-2002 12:53
Operator : DG Inst ID: s1.i
Smp Info : S0825-BW1,SBLK1Q,S0825-BW1,DG
Misc Info : 3,,BLANK,1,,,,,,,25-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\evoa\S1.i\020831.B\S1_8270C.m
Meth Date : 31-Aug-2002 12:45 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT ION	RT	RRT RT	REL RT	RESPONSE	CONCENTRATION ON-COLUMN (ng/)	CONCENTRATION FINAL (ng/L)
$ 3 2-Fluorophenol	112	4.891	4.891 (0.879)	283974	41.1540	41
$ 5 Phenol-d6	99	5.570	5.566 (0.812)	483445	55.1971	55
$ 9 2-Chlorophenol-d4	132	5.686	5.685 (0.840)	466549	50.0603	50
* 12 1,4-Dichlorobenzene-d4	152	6.898	6.896 (1.000)	263407	40.0000	
$ 14 1,2-Dichlorobenzene-d4	152	7.165	7.165 (1.039)	154230	41.9684	42
$ 22 Nitrobenzene-d5	82	7.883	7.891 (0.954)	326690	41.3621	41
* 31 Naphthalene-d8	136	9.333	9.363 (1.000)	706990	40.0000	
$ 41 2-Fluorobiphenyl	172	11.853	11.864 (0.898)	673228	43.7468	44
* 48 Acenaphthene-d10	164	12.249	12.248 (1.000)	330267	40.0000	
$ 60 2,4,6-Tribromophenol	330	14.324	14.317 (0.912)	123908	43.2549	43
* 66 Phenanthrene-d10	188	15.709	15.719 (1.000)	573685	40.0000	
$ 71 Terphenyl-d14	244	19.005	19.005 (0.904)	487408	45.9305	46
* 76 Chrysene-d12	240	21.035	21.036 (1.000)	370845	40.0000	
* 83 Perylene-d12	264	23.959	23.668 (1.000)	385464	40.6805	

SMO 9/4/02

Data File: S1D0678.D
Report Date: 04-Sep-2002 14:42

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0678.D
Lab Smp Id: S0825-BW1 Client Smp ID: SBLK1Q
Inj Date : 31-AUG-2002 12:53
Operator : DG Inst ID: s1.i
Smp Info : S0825-BW1,SBLK1Q,S0825-BW1,DG
Misc Info : 3,,BLANK,1,,,,,,,25-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1_8270C.m
Meth Date : 31-Aug-2002 12:45 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S1GLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: S0821-LW1
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0570
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	19	
111-44-4	bis(2-Chloroethyl)Ether	55	
95-57-8	2-Chlorophenol	48	
541-73-1	1,3-Dichlorobenzene	47	
106-46-7	1,4-Dichlorobenzene	49	
95-50-1	1,2-Dichlorobenzene	51	
95-48-7	2-Methylphenol	43	
108-60-1	2,2'-oxybis(1-Chloropropane)	56	
106-44-5	4-Methylphenol	40	
621-64-7	N-Nitroso-di-n-propylamine	49	
67-72-1	Hexachloroethane	51	
98-95-3	Nitrobenzene	51	
78-59-1	Isophorone	48	
88-75-5	2-Nitrophenol	50	
105-67-9	2,4-Dimethylphenol	47	
120-83-2	2,4-Dichlorophenol	52	
120-82-1	1,2,4-Trichlorobenzene	50	
91-20-3	Naphthalene	52	
106-47-8	4-Chloroaniline	18	
111-91-1	bis(2-Chloroethoxy)methane	54	
87-68-3	Hexachlorobutadiene	48	
59-50-7	4-Chloro-3-Methylphenol	52	
91-57-6	2-Methylnaphthalene	54	
77-47-4	Hexachlorocyclopentadiene	43	
88-06-2	2,4,6-Trichlorophenol	53	
95-95-4	2,4,5-Trichlorophenol	55	
91-58-7	2-Chloronaphthalene	52	
88-74-4	2-Nitroaniline	54	
131-11-3	Dimethylphthalate	54	
208-96-8	Acenaphthylene	53	
606-20-2	2,6-Dinitrotoluene	54	
99-09-2	3-Nitroaniline	47	
83-32-9	Acenaphthene	53	

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

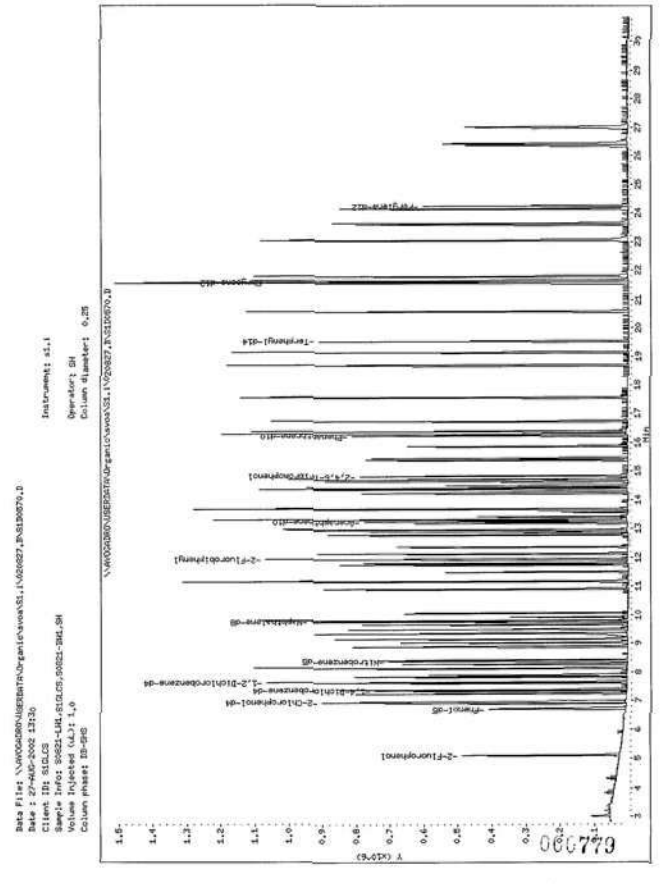
EPA SAMPLE NO.
S1GLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: S0821-LW1
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0570
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	51	
100-02-7	4-Nitrophenol	18	J
132-64-9	Dibenzofuran	56	
121-14-2	2,4-Dinitrotoluene	55	
84-66-2	Diethylphthalate	54	
7005-72-3	4-Chlorophenyl-phenylether	55	
86-73-7	Fluorene	55	
100-01-6	4-Nitroaniline	49	
534-52-1	4,6-Dinitro-2-methylphenol	53	
86-30-6	N-Nitrosodiphenylamine (1)	53	
101-55-3	4-Bromophenyl-phenylether	52	
118-74-1	Hexachlorobenzene	53	
87-86-5	Pentachlorophenol	54	
85-01-8	Phenanthrene	55	
120-12-7	Anthracene	56	
86-74-8	Carbazole	57	
84-74-2	Di-n-butylphthalate	56	
206-44-0	Fluoranthene	56	
129-00-0	Pyrene	53	
85-68-7	Butylbenzylphthalate	51	
91-94-1	3,3'-Dichlorobenzidine	51	
56-55-3	Benzo(a)anthracene	53	
218-01-9	Chrysene	53	
117-81-7	bis(2-Ethylhexyl)phthalate	52	
117-84-0	Di-n-octylphthalate	50	
205-99-2	Benzo(b)fluoranthene	51	
207-08-9	Benzo(k)fluoranthene	52	
50-32-8	Benzo(a)pyrene	52	
193-39-5	Indeno(1,2,3-cd)pyrene	60	
53-70-3	Dibenzo(a,h)anthracene	58	
191-24-2	Benzo(g,h,i)perylene	61	

(1) - Cannot be separated from Diphenylamine

FORM I SV-2



Data File: S1D0570.D
Report Date: 04-Sep-2002 14:26

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1D0570.D
Lab Smp Id: S0821-LW1 Client Smp ID: S1GLCS
Inj Date : 27-AUG-2002 13:30
Operator : SH Inst ID: s1.i
Smp Info : S0821-LW1,S1GLCS,S0821-BW1,SH
Misc Info : 3,,LCS,1,,,,,,,21-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1_8270C.m
Meth Date : 30-Aug-2002 09:19 mei Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$	3 2-Fluorophenol	112	5.114	5.115	(0.695)	267442	37.1077	37
$	5 Phenol-d5	99	6.713	6.725	(0.912)	221407	25.3971	25
	6 Phenol	94	6.735	6.746	(0.915)	162886	18.3980	18
	8 bis(2-Chloroethyl)ether	93	6.907	6.919	(0.938)	367660	54.7543	55(H)
$	9 2-Chlorophenol-d4	132	6.940	6.952	(0.943)	484886	68.3195	68
	10 2-Chlorophenol	128	6.972	6.973	(0.947)	324972	44.1345	44
	11 1,3-Dichlorobenzene	146	7.254	7.254	(0.985)	309411	47.3348	47
*	12 1,4-Dichlorobenzene-d4	152	7.361	7.362	(1.000)	165761	40.0000	
	13 1,4-Dichlorobenzene	146	7.392	7.394	(1.004)	317391	49.2091	49
$	14 1,2-Dichlorobenzene-d4	152	7.431	7.432	(1.017)	199234	57.8647	58
	16 1,2-Dichlorobenzene	146	7.664	7.664	(1.041)	290454	50.6535	51
	17 2-Methylphenol	108	7.816	7.837	(1.065)	255952	43.0301	43
	18 2,2'-oxybis(1-Chloropropane)	45	7.801	7.802	(1.071)	590916	55.8499	56
	20 4-Methylphenol	108	8.128	8.140	(1.104)	235089	39.6878	40

Data File: S1D0570.D
Report Date: 04-Sep-2002 14:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	19 N-Nitroso-di-n-propylamine	70	8.135	8.150	(1.104)	226444	48.5001	49
	21 Hexachloroethane	117	8.279	8.280	(1.125)	155127	50.9555	51
$	22 Nitrobenzene-d5	82	8.347	8.368	(0.659)	367695	52.1755	52
	23 Nitrobenzene	77	8.420	8.431	(0.663)	365024	51.2537	51
	24 Isophorone	82	8.896	8.907	(0.911)	659639	48.5815	48
	25 2-Nitrophenol	139	9.024	9.025	(0.925)	210050	50.4384	50
	26 2,4-Dimethylphenol	107	9.143	9.155	(0.937)	290247	47.3437	47
	27 bis(2-Chloroethoxy)methane	93	9.348	9.348	(0.958)	440157	54.1376	54
	29 2,4-Dichlorophenol	162	9.488	9.501	(0.972)	254661	52.5181	52
	30 1,2,4-Trichlorobenzene	180	9.662	9.663	(0.990)	345897	49.9333	50
*	31 Naphthalene-d8	136	9.759	9.760	(1.000)	475537	40.0000	
	32 Naphthalene	128	9.802	9.805	(1.004)	870624	51.9884	52
	33 4-Chloroaniline	127	9.921	9.933	(1.017)	147310	18.4044	18
	34 Hexachlorobutadiene	225	10.072	10.075	(1.032)	130867	48.2348	48
	35 4-Chloro-3-Methylphenol	107	10.915	10.916	(1.118)	275987	52.5457	52
	36 2-Methylnaphthalene	142	11.174	11.175	(1.145)	570688	53.9564	54
	38 Hexachlorocyclopentadiene	237	11.498	11.489	(0.867)	117988	42.7649	43
	39 2,4,6-Trichlorophenol	196	11.746	11.747	(0.888)	180488	52.8081	53
	40 2,4,5-Trichlorophenol	196	11.811	11.813	(0.891)	187390	54.4018	55
$	41 2-Fluorobiphenyl	172	11.941	11.942	(0.901)	562497	56.6902	56
	42 2-Chloronaphthalene	162	12.135	12.147	(0.915)	433490	51.7740	52
	43 2-Nitroaniline	65	12.373	12.374	(0.933)	203084	53.5044	54
	44 Dimethylphthalate	163	12.794	12.795	(0.965)	815950	54.2465	54
	45 2,6-Dinitrotoluene	165	12.891	12.892	(0.972)	159384	53.9415	54
	46 Acenaphthylene	152	12.947	12.948	(0.976)	900760	53.0795	53
	47 3-Nitroaniline	138	13.206	13.204	(0.996)	176706	47.2234	47
*	48 Acenaphthene-d10	164	13.259	13.249	(1.000)	314590	40.0000	
	49 Acenaphthene	153	13.331	13.334	(1.005)	470025	53.1613	53
	50 2,4-Dinitrophenol	184	13.421	13.422	(1.012)	103425	90.8277	91
	51 4-Nitrophenol	109	13.573	13.584	(1.024)	38916	17.9175	18(a)
	53 2,4-Dinitrotoluene	165	13.691	13.692	(1.033)	183542	54.6991	55
	52 Dibenzofuran	168	13.669	13.681	(1.031)	710914	56.1898	56
	54 Diethylphthalate	149	14.242	14.243	(1.074)	636960	54.4836	54
	56 4-Chlorophenyl-phenylether	204	14.404	14.405	(1.086)	254315	54.7000	55
	55 Fluorene	166	14.360	14.361	(1.083)	539098	55.0479	55
	57 4-Nitroaniline	138	14.435	14.448	(1.089)	175767	48.7872	49
	58 4,6-Dinitro-2-methylphenol	198	14.512	14.515	(0.894)	137128	52.7196	53
	59 N-Nitrosodiphenylamine	169	14.652	14.653	(0.902)	560673	53.4630	53
$	60 2,4,6-Tribromophenol	330	14.865	14.867	(0.914)	138651	78.3376	78
	61 4-Bromophenyl-phenylether	248	15.387	15.387	(0.947)	138681	51.8238	52
	62 Hexachlorobenzene	284	15.462	15.463	(0.952)	161503	53.8760	53
	63 Pentachlorophenol	266	15.873	15.876	(0.977)	116795	53.7233	54
*	64 Phenanthrene-d10	188	16.240	16.241	(1.000)	920922	40.0000	
	65 Phenanthrene	178	16.290	16.293	(1.003)	715904	54.6524	55(H)
	66 Anthracene	178	16.391	16.403	(1.009)	752680	55.5474	56
	67 Carbazole	167	16.748	16.748	(1.031)	738483	57.0958	57
	68 Di-n-butylphthalate	149	17.558	17.559	(1.081)	1327097	55.9694	56

Data File: S1D0570.D
Report Date: 04-Sep-2002 14:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	69 Fluoranthene	202	18.490	18.493	(1.138)	659412	55.7984	56
	70 Pyrene	202	19.135	19.134	(0.846)	810416	52.7586	53
$	71 Terphenyl-d14	244	19.521	19.524	(0.904)	511170	51.5626	52
	72 Butylbenzylphthalate	149	20.502	20.501	(0.951)	513660	51.2676	51
	74 3,3'-Dichlorobenzidine	252	21.565	21.566	(0.989)	228868	51.7352	51
	75 Benzo(a)anthracene	228	21.586	21.544	(0.999)	469612	52.7756	53
*	76 Chrysene-d12	240	21.587	21.598	(1.000)	195171	40.0000	
	78 bis(2-Ethylhexyl)phthalate	149	21.703	21.701	(1.010)	647687	51.5048	52
	77 Chrysene	228	21.641	21.652	(1.002)	610219	53.4591	53
	79 Di-n-octylphthalate	149	23.034	23.036	(0.850)	1135060	49.8683	50
	80 Benzo(b)fluoranthene	252	23.596	23.597	(0.973)	608607	51.0572	51
	81 Benzo(k)fluoranthene	252	23.650	23.651	(0.995)	625799	51.5740	52
	82 Benzo(a)pyrene	252	24.147	24.158	(0.996)	560254	52.3046	52
*	83 Perylene-d12	264	24.244	24.245	(1.000)	238458	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	26.383	26.383	(1.088)	538677	60.0710	60
	85 Dibenzo(a,h)anthracene	278	26.436	26.448	(1.090)	509080	58.2591	58
	86 Benzo(g,h,i)perylene	276	27.009	27.021	(1.114)	516687	60.7272	61

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

SMD 9/4/02

KW

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S1GLCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: S0821-LW1D

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0571

Level: (low/med) LOW Date Received: ______

% Moisture: ______ decanted: (Y/N) ___ Date Extracted: 08/21/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
108-95-2	Phenol	18	
111-44-4	bis(2-Chloroethyl)Ether	50	
95-57-8	2-Chlorophenol	44	
541-73-1	1,3-Dichlorobenzene	43	
106-46-7	1,4-Dichlorobenzene	44	
95-50-1	1,2-Dichlorobenzene	47	
95-48-7	2-Methylphenol	40	
108-60-1	2,2'-oxybis(1-Chloropropane)	51	
106-44-5	4-Methylphenol	38	
621-64-7	N-Nitroso-di-n-propylamine	47	
67-72-1	Hexachloroethane	46	
98-95-3	Nitrobenzene	48	
78-59-1	Isophorone	47	
88-75-5	2-Nitrophenol	48	
105-67-9	2,4-Dimethylphenol	44	
120-83-2	2,4-Dichlorophenol	50	
120-82-1	1,2,4-Trichlorobenzene	46	
91-20-3	Naphthalene	48	
106-47-8	4-Chloroaniline	20	
111-91-1	bis(2-Chloroethoxy)methane	51	
87-68-3	Hexachlorobutadiene	45	
59-50-7	4-Chloro-3-Methylphenol	51	
91-57-6	2-Methylnaphthalene	51	
77-47-4	Hexachlorocyclopentadiene	39	
88-06-2	2,4,6-Trichlorophenol	50	
95-95-4	2,4,5-Trichlorophenol	51	
91-58-7	2-Chloronaphthalene	49	
88-74-4	2-Nitroaniline	50	
131-11-3	Dimethylphthalate	52	
208-96-8	Acenaphthylene	50	
606-20-2	2,6-Dinitrotoluene	51	
99-09-2	3-Nitroaniline	47	
83-32-9	Acenaphthene	51	

FORM I SV-1

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S1GLCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: S0821-LW1D

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0571

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/21/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02

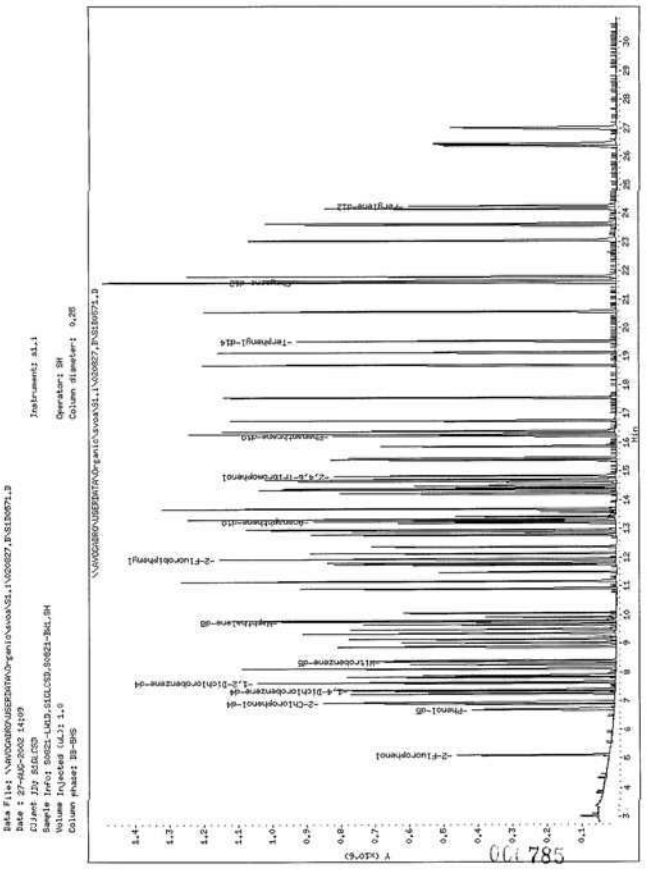
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	49	
100-02-7	4-Nitrophenol	18	J
132-64-9	Dibenzofuran	53	
121-14-2	2,4-Dinitrotoluene	52	
84-66-2	Diethylphthalate	53	
7005-72-3	4-Chlorophenyl-phenylether	53	
86-73-7	Fluorene	52	
100-01-6	4-Nitroaniline	47	
534-52-1	4,6-Dinitro-2-methylphenol	52	
86-30-6	N-Nitrosodiphenylamine (1)	52	
101-55-3	4-Bromophenyl-phenylether	50	
118-74-1	Hexachlorobenzene	51	
87-86-5	Pentachlorophenol	52	
85-01-8	Phenanthrene	53	
120-12-7	Anthracene	54	
86-74-8	Carbazole	55	
84-74-2	Di-n-butylphthalate	54	
206-44-0	Fluoranthene	54	
129-00-0	Pyrene	51	
85-68-7	Butylbenzylphthalate	50	
91-94-1	3,3'-Dichlorobenzidine	49	
56-55-3	Benzo(a)anthracene	51	
218-01-9	Chrysene	52	
117-81-7	bis(2-Ethylhexyl)phthalate	51	
117-84-0	Di-n-octylphthalate	48	
205-99-2	Benzo(b)fluoranthene	48	
207-08-9	Benzo(k)fluoranthene	50	
50-32-8	Benzo(a)pyrene	49	
193-39-5	Indeno(1,2,3-cd)pyrene	56	
53-70-3	Dibenzo(a,h)anthracene	55	
191-24-2	Benzo(g,h,i)perylene	58	

(1) - Cannot be separated from Diphenylamine

FORM I SV-2



Data File: S1D0571.D
Report Date: 04-Sep-2002 14:26

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1D0571.D
Lab Smp Id: S0821-LW1D Client Smp ID: S1GLCSD
Inj Date : 27-AUG-2002 14:09
Operator : SH Inst ID: s1.i
Smp Info : S0821-LW1D,S1GLCSD,S0821-BW1,SH
Misc Info : 3,,LCSD,1,,,,,,,21-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020827.B\S1_8270C.m
Meth Date : 30-Aug-2002 09:19 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 8 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$	3 2-Fluorophenol	112	5.113	5.115	(0.695)	264781	35.3373	35
$	5 Phenol-d5	99	6.711	6.725	(0.912)	228012	24.9321	25
	6 Phenol	94	6.733	6.746	(0.915)	166216	18.5333	18
	8 bis(2-Chloroethyl)Ether	93	6.906	6.919	(0.938)	348175	49.8767	50
$	9 2-Chlorophenol-d4	132	6.938	6.952	(0.943)	463743	62.9166	63
	10 2-Chlorophenol	128	6.971	6.973	(0.947)	308006	43.8835	44
	11 1,3-Dichlorobenzene	146	7.252	7.254	(0.985)	289003	43.0587	43
*	12 1,4-Dichlorobenzene-d4	152	7.359	7.363	(1.000)	193126	40.0000	
	13 1,4-Dichlorobenzene	146	7.392	7.394	(1.004)	295207	44.0242	44
$	14 1,2-Dichlorobenzene-d4	152	7.630	7.632	(1.037)	188919	48.2199	48
	16 1,2 Dichlorobenzene	146	7.662	7.664	(1.041)	277966	46.6267	47
	17 2-Methylphenol	108	7.835	7.837	(1.065)	248608	40.2343	40
	18 2,2'-oxybis(1-Chloropropane)	45	7.900	7.902	(1.073)	559213	50.8379	51
	20 4-Methylphenol	108	8.126	8.140	(1.104)	238718	38.5994	38

Data File: S1D0571.D
Report Date: 04-Sep-2002 14:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
19 N-Nitroso-di-n-propylamine	70	8.137	8.150	(1.106)	220736	47.3969	47
21 Hexachloroethane	117	8.278	8.280	(1.125)	145650	45.9569	46
$ 22 Nitrobenzene-d5	82	8.386	8.388	(0.859)	377754	49.2133	49
23 Nitrobenzene	77	8.418	8.431	(0.863)	352620	47.9532	48
24 Isophorone	82	8.893	8.907	(0.911)	664887	47.4268	47
25 2-Nitrophenol	139	9.023	9.025	(0.925)	207231	48.1956	48
26 2,4-Dimethylphenol	107	9.152	9.159	(0.938)	279119	44.0951	44
27 bis(2-Chloroethoxy)methane	93	9.347	9.350	(0.958)	429609	51.3686	51
29 2,4-Dichlorophenol	162	9.487	9.501	(0.972)	250945	50.1269	50
30 1,2,4-Trichlorobenzene	180	9.660	9.663	(0.990)	233835	45.9894	46
* 31 Naphthalene-d8	136	9.757	9.760	(1.000)	697479	40.0000	
32 Naphthalene	128	9.801	9.803	(1.004)	831919	48.1173	48
33 4-Chloroaniline	127	9.919	9.933	(1.017)	163491	19.7831	20
34 Hexachlorobutadiene	225	10.071	10.073	(1.032)	116340	44.9669	45
35 4-Chloro-3-Methylphenol	107	10.913	10.916	(1.118)	276683	51.0201	51
36 2-Methylnaphthalene	142	11.172	11.175	(1.145)	567214	51.3222	51
38 Hexachlorocyclopentadiene	237	11.496	11.499	(0.867)	114000	38.7979	39
39 2,4,6-Trichlorophenol	196	11.745	11.747	(0.886)	183787	50.3990	50
40 2,4,5-Trichlorophenol	196	11.810	11.812	(0.891)	187352	51.4788	51
$ 41 2-Fluorobiphenyl	172	11.939	11.942	(0.901)	571965	52.1260	52
42 2-Chloronaphthalene	162	12.134	12.147	(0.915)	438655	49.2006	49
43 2-Nitroaniline	65	12.371	12.374	(0.933)	203635	49.8924	50
44 Dimethylphthalate	163	12.793	12.795	(0.965)	623764	51.5808	52
45 2,6-Dinitrotoluene	165	12.890	12.892	(0.972)	161261	51.2526	51
46 Acenaphthylene	152	12.965	12.968	(0.978)	808203	50.3111	50
47 3-Nitroaniline	138	13.203	13.206	(0.996)	185474	46.6008	47
* 48 Acenaphthene-d10	164	13.257	13.260	(1.000)	335008	40.0000	
49 Acenaphthene	153	13.322	13.324	(1.005)	479000	50.8637	51
50 2,4-Dinitrophenol	184	13.419	13.422	(1.012)	107207	49.3816	49
51 4-Nitrophenol	109	13.570	13.584	(1.024)	30553	18.2338	18(a)
53 2,4-Dinitrotoluene	165	13.689	13.692	(1.033)	197084	52.3054	52
52 Dibenzofuran	168	13.678	13.681	(1.032)	728022	53.4408	53
54 Diethylphthalate	149	14.240	14.243	(1.074)	659187	52.9597	53
56 4-Chlorophenyl-phenylether	204	14.402	14.405	(1.086)	261497	52.8571	53
55 Fluorene	166	14.359	14.361	(1.083)	544801	52.2397	52
57 4-Nitroaniline	138	14.445	14.448	(1.090)	181745	47.3525	47
58 4,6-Dinitro-2-methylphenol	198	14.510	14.513	(0.894)	145231	51.7365	52
59 N-Nitrosodiphenylamine	169	14.650	14.653	(0.902)	371421	51.7877	52
$ 60 2,4,6-Tribromophenol	330	14.845	14.847	(0.914)	145537	77.1953	77
61 4-Bromophenyl-phenylether	248	15.385	15.387	(0.947)	141389	49.6716	50
62 Hexachlorobenzene	284	15.461	15.463	(0.952)	167838	51.4384	51
63 Pentachlorophenol	266	15.871	15.874	(0.977)	119912	51.8832	52
* 64 Phenanthrene-d10	188	16.238	16.241	(1.000)	553893	40.0000	
65 Phenanthrene	178	16.292	16.295	(1.003)	750473	52.6026	53(H)
66 Anthracene	178	16.400	16.403	(1.010)	775921	53.8027	54
67 Carbazole	167	16.746	16.748	(1.031)	759388	55.1960	55
68 Di-n-butylphthalate	149	17.567	17.559	(1.082)	1160569	54.1230	54

Data File: S1D0571.D
Report Date: 04-Sep-2002 14:26

	Compounds	QUANT STD MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
69	Fluoranthene	202	18.690	18.691	(1.151)	834897	54.0341	54
70	Pyrene	202	19.133	19.136	(0.886)	842142	51.0319	51
S 71	Terphenyl-d14	244	19.531	19.524	(0.904)	537741	50.4646	50
72	Butylbenzylphthalate	149	20.580	20.583	(0.953)	533249	49.6287	50
74	3,3'-Dichlorobenzidine	252	21.563	21.566	(0.998)	238600	49.4838	49
75	Benzo(a)anthracene	228	21.563	21.566	(0.998)	698377	51.3258	51
* 76	Chrysene-d12	240	21.596	21.598	(1.000)	424618	40.0000	
78	bis(2-Ethylhexyl)phthalate	149	21.790	21.793	(1.009)	709927	50.9657	51
77	Chrysene	228	21.650	21.652	(1.002)	662286	52.2835	52
79	Di-n-octylphthalate	149	23.043	23.035	(0.950)	1198879	48.2525	48
80	Benzo(b)fluoranthene	252	23.594	23.597	(0.973)	625204	48.0679	48
81	Benzo(k)fluoranthene	252	23.648	23.651	(0.975)	667883	50.4441	50
82	Benzo(a)pyrene	252	24.156	24.158	(0.996)	586173	49.4466	49
* 83	Perylene-d12	264	24.253	24.245	(1.000)	325664	40.0000	
84	Indeno(1,2,3-cd)pyrene	276	26.381	26.383	(1.088)	553388	56.5561	56
85	Dibenzo(a,h)anthracene	278	26.446	26.448	(1.090)	528643	55.4820	55
86	Benzo(g,h,i)perylene	276	27.007	27.021	(1.114)	536644	57.8042	58

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.

SWA 9/4/02

KL

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S1QLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: S0825-LW1
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0679
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	39	
111-44-4	bis(2-Chloroethyl)Ether	38	
95-57-8	2-Chlorophenol	40	
541-73-1	1,3-Dichlorobenzene	34	
106-46-7	1,4-Dichlorobenzene	35	
95-50-1	1,2-Dichlorobenzene	37	
95-48-7	2-Methylphenol	44	
108-60-1	2,2'-oxybis(1-Chloropropane)	40	
106-44-5	4-Methylphenol	46	
621-64-7	N-Nitroso-di-n-propylamine	41	
67-72-1	Hexachloroethane	39	
98-95-3	Nitrobenzene	42	
78-59-1	Isophorone	39	
88-75-5	2-Nitrophenol	42	
105-67-9	2,4-Dimethylphenol	40	
120-83-2	2,4-Dichlorophenol	45	
120-82-1	1,2,4-Trichlorobenzene	39	
91-20-3	Naphthalene	40	
106-47-8	4-Chloroaniline	39	
111-91-1	bis(2-Chloroethoxy)methane	44	
87-68-3	Hexachlorobutadiene	37	
59-50-7	4-Chloro-3-Methylphenol	47	
91-57-6	2-Methylnaphthalene	43	
77-47-4	Hexachlorocyclopentadiene	18	
88-06-2	2,4,6-Trichlorophenol	46	
95-95-4	2,4,5-Trichlorophenol	48	
91-58-7	2-Chloronaphthalene	42	
88-74-4	2-Nitroaniline	43	
131-11-3	Dimethylphthalate	45	
208-96-8	Acenaphthylene	43	
606-20-2	2,6-Dinitrotoluene	45	
99-09-2	3-Nitroaniline	41	
83-32-9	Acenaphthene	44	

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

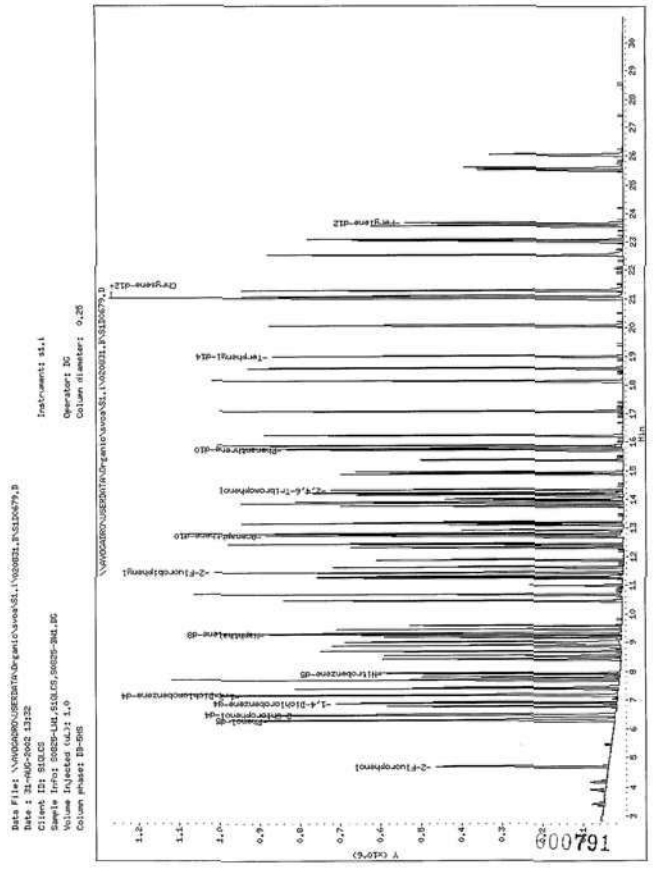
EPA SAMPLE NO.
S1QLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: S0825-LW1
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0679
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	45	
100-02-7	4-Nitrophenol	46	
132-64-9	Dibenzofuran	46	
121-14-2	2,4-Dinitrotoluene	47	
84-66-2	Diethylphthalate	46	
7005-72-3	4-Chlorophenyl-phenylether	47	
86-73-7	Fluorene	46	
100-01-6	4-Nitroaniline	40	
534-52-1	4,6-Dinitro-2-methylphenol	44	
86-30-6	N-Nitrosodiphenylamine (1)	42	
101-55-3	4-Bromophenyl-phenylether	44	
118-74-1	Hexachlorobenzene	46	
87-86-5	Pentachlorophenol	46	
85-01-8	Phenanthrene	46	
120-12-7	Anthracene	46	
86-74-8	Carbazole	46	
84-74-2	Di-n-butylphthalate	47	
206-44-0	Fluoranthene	46	
129-00-0	Pyrene	45	
85-68-7	Butylbenzylphthalate	43	
91-94-1	3,3'-Dichlorobenzidine	31	
56-55-3	Benzo(a)anthracene	44	
218-01-9	Chrysene	43	
117-81-7	bis(2-Ethylhexyl)phthalate	45	
117-84-0	Di-n-octylphthalate	49	
205-99-2	Benzo(b)fluoranthene	44	
207-08-9	Benzo(k)fluoranthene	46	
50-32-8	Benzo(a)pyrene	42	
193-39-5	Indeno(1,2,3-cd)pyrene	41	
53-70-3	Dibenzo(a,h)anthracene	41	
191-24-2	Benzo(g,h,i)perylene	40	

(1) - Cannot be separated from Diphenylamine

FORM I SV-2



Data File: S1D0679.D
Report Date: 04-Sep-2002 14:33

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0679.D
Lab Smp Id: S0825-LW1 Client Smp ID: S1QLCS
Inj Date : 31-AUG-2002 13:32
Operator : DG Inst ID: s1.i
Smp Info : S0825-LW1,S1QLCS,S0825-BW1,DG
Misc Info : 3,,LCS,1,,,,,,,25-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1_8270C.m
Meth Date : 31-Aug-2002 12:45 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$	3 2-Fluorophenol	112	4.681	4.691	(0.679)	106406	42.4431	43(H)
$	5 Phenol-d5	99	6.301	6.300	(0.914)	493742	56.4465	57
	6 Phenol	94	6.333	6.331	(0.917)	333320	39.0571	39
	8 bis(2-Chloroethyl)Ether	93	6.474	6.464	(0.939)	251093	38.3570	38
$	9 2-Chlorophenol-d4	132	6.496	6.495	(0.942)	410304	58.4239	58
	10 2-Chlorophenol	128	6.517	6.527	(0.945)	264401	39.5407	40
	11 1,3-Dichlorobenzene	146	6.787	6.797	(0.981)	217965	34.0915	34
*	12 1,4-Dichlorobenzene-d4	152	6.891	6.905	(1.000)	145991	40.0000	
	13 1,4-Dichlorobenzene	146	6.920	6.918	(1.005)	223487	35.3594	35
$	14 1,2-Dichlorobenzene-d4	152	7.165	7.165	(1.039)	164901	44.1787	44
	16 1,2-Dichlorobenzene	146	7.187	7.187	(1.042)	210112	36.9942	37
	17 2-Methylphenol	108	7.403	7.402	(1.074)	357173	43.5807	44
	18 2,2'-oxybis(1-Chloropropane)	45	7.448	7.456	(1.080)	421610	40.3318	40
	20 4-Methylphenol	108	7.706	7.705	(1.117)	270556	45.9190	46

Data File: S1D0679.D
Report Date: 04-Sep-2002 14:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	19 N-Nitroso-di-n-propylamine	70	7.695	7.694	(1.116)	183841	41.4342	41
	21 Hexachloroethane	117	7.803	7.813	(1.132)	119113	39.4491	39
$	22 Nitrobenzene-d5	82	7.922	7.931	(0.854)	339469	44.8547	45
	23 Nitrobenzene	77	7.954	7.964	(0.868)	306947	42.3359	42
	24 Isophorone	82	8.449	8.458	(0.910)	558836	38.8368	39
	25 2-Nitrophenol	139	8.554	8.569	(0.923)	178833	42.4180	42
	26 2,4-Dimethylphenol	107	8.699	8.709	(0.938)	353103	40.5536	40
	27 bis(2-Chloroethoxy)methane	93	8.894	8.904	(0.959)	360107	44.4967	44
	29 2,4-Dichlorophenol	162	9.023	9.033	(0.973)	333578	45.2964	45
	30 1,2,4-Trichlorobenzene	180	9.183	9.184	(0.990)	294406	39.2175	39
*	31 Naphthalene-d8	136	9.272	9.283	(1.000)	687697	40.0000	
	32 Naphthalene	128	9.315	9.325	(1.005)	890070	40.4607	40
	33 4-Chloroaniline	127	9.455	9.465	(1.020)	320408	39.3447	39
	34 Hexachlorobutadiene	225	9.598	9.598	(1.035)	94686	37.7390	37
	35 4-Chloro-3-Methylphenol	107	10.440	10.459	(1.126)	249794	46.7172	47
	36 2-Methylnaphthalene	142	10.687	10.697	(1.153)	468497	43.9094	43
	38 Hexachlorocyclopentadiene	237	11.031	11.010	(0.844)	53224	18.4329	18
	39 2,4,6-Trichlorophenol	196	11.270	11.269	(0.884)	368297	46.0155	46
	40 2,4,5-Trichlorophenol	196	11.324	11.314	(0.888)	372899	48.3414	48
$	41 2-Fluorobiphenyl	172	11.454	11.464	(0.898)	504743	46.7544	47
	42 2-Chloronaphthalene	162	11.644	11.647	(0.914)	364947	43.6007	43
	43 2-Nitroaniline	65	11.686	11.696	(0.933)	171696	42.8579	43
	44 Dimethylphthalate	163	12.314	12.326	(0.966)	530463	45.2769	45
	45 2,6-Dinitrotoluene	165	12.415	12.425	(0.974)	738766	44.5800	45
	46 Acenaphthylene	152	12.434	12.457	(0.977)	478333	42.9698	43
	47 3-Nitroaniline	138	12.717	12.727	(0.997)	143133	41.4041	41
*	48 Acenaphthene-d10	164	12.756	12.760	(1.000)	329209	40.0000	
	49 Acenaphthene	153	12.815	12.824	(1.005)	406634	43.9318	44
	50 2,4-Dinitrophenol	184	12.931	12.941	(1.014)	85137	44.4429	44
	51 4-Nitrophenol	109	13.117	13.127	(1.029)	75396	45.7893	46(Q)
	53 2,4-Dinitrotoluene	165	13.291	13.311	(1.036)	172964	46.7136	47
	52 Dibenzofuran	168	13.171	13.170	(1.033)	417742	46.1161	46
	54 Diethylphthalate	149	13.765	13.766	(1.080)	550461	45.4676	46
	56 4-Chlorophenyl-phenylether	204	13.905	13.915	(1.091)	227329	46.7361	47
	55 Fluorene	166	13.852	13.861	(1.086)	671300	45.9879	46
	57 4-Nitroaniline	138	13.949	13.959	(1.094)	151161	48.0778	48
	58 4,6-Dinitro-2-methylphenol	198	14.025	14.023	(0.892)	123875	44.3073	44
	59 N-Nitrosodiphenylamine	169	14.163	14.164	(0.901)	300194	41.9083	42
$	60 2,4,6-Tribromophenol	330	14.338	14.337	(0.913)	133268	70.3819	70
	61 4-Bromophenyl-phenylether	248	14.878	14.888	(0.946)	126433	44.4964	44
	62 Hexachlorobenzene	284	14.943	14.953	(0.951)	150103	46.0846	44
	63 Pentachlorophenol	266	15.364	15.363	(0.977)	106760	44.0580	44
*	64 Phenanthrene-d10	188	15.720	15.719	(1.000)	553916	40.0000	
	65 Phenanthrene	178	15.783	15.773	(1.003)	658773	45.8359	46
	66 Anthracene	178	15.873	15.870	(1.010)	655883	45.5580	46
	67 Carbazole	167	16.329	16.337	(1.039)	695164	48.8125	49
	68 Di-n-butylphthalate	149	17.070	17.069	(1.086)	997889	46.6150	47

Data File: S1D0679.D
Report Date: 04-Sep-2002 14:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	69 Fluoranthene	202	18.151	18.150	(1.155)	711876	46.1543	46
	70 Pyrene	202	18.583	18.592	(0.893)	712267	45.4502	45
$	71 Terphenyl-d14	244	19.004	19.003	(0.903)	463535	45.8104	46
	72 Butylbenzylphthalate	149	20.073	20.072	(0.954)	443464	43.4868	43
	74 3,3'-Dichlorobenzidine	252	21.024	21.014	(0.999)	142101	31.0377	31
	75 Benzo(a)anthracene	228	21.013	21.013	(0.999)	676186	44.3546	44
*	76 Chrysene-d12	240	21.039	21.036	(1.000)	403179	40.0000	
	78 bis(2-Ethylhexyl)phthalate	149	21.283	21.293	(1.012)	593764	44.8930	45
	77 Chrysene	228	21.085	21.098	(1.003)	516249	42.9819	43
	79 Di-n-octylphthalate	149	22.538	22.535	(0.953)	1001031	49.4282	49
	80 Benzo(b)fluoranthene	252	23.092	23.001	(0.973)	471194	44.4426	44
	81 Benzo(k)fluoranthene	252	23.076	23.075	(0.978)	499359	45.8982	46
	82 Benzo(a)pyrene	252	23.571	23.573	(0.996)	410744	42.5058	43
*	83 Perylene-d12	264	23.670	23.669	(1.000)	365487	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	25.517	25.527	(1.078)	327881	41.3085	41
	85 Dibenz(a,h)anthracene	278	25.542	25.541	(1.081)	319641	41.3545	41
	86 Benzo(g,h,i)perylene	276	26.057	26.054	(1.101)	307096	40.5901	40

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: S1QLCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: S0825-LW1D

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0680

Level: (low/med) LOW Date Received: ______

% Moisture: ______ decanted: (Y/N)___ Date Extracted:08/25/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	41	
111-44-4	bis(2-Chloroethyl)Ether	40	
95-57-8	2-Chlorophenol	41	
541-73-1	1,3-Dichlorobenzene	37	
106-46-7	1,4-Dichlorobenzene	38	
95-50-1	1,2-Dichlorobenzene	40	
95-48-7	2-Methylphenol	45	
108-60-1	2,2'-oxybis(1-Chloropropane)	40	
106-44-5	4-Methylphenol	47	
621-64-7	N-Nitroso-di-n-propylamine	42	
67-72-1	Hexachloroethane	42	
98-95-3	Nitrobenzene	43	
78-59-1	Isophorone	40	
88-75-5	2-Nitrophenol	43	
105-67-9	2,4-Dimethylphenol	43	
120-83-2	2,4-Dichlorophenol	46	
120-82-1	1,2,4-Trichlorobenzene	41	
91-20-3	Naphthalene	42	
106-47-8	4-Chloroaniline	35	
111-91-1	bis(2-Chloroethoxy)methane	45	
87-68-3	Hexachlorobutadiene	39	
59-50-7	4-Chloro-3-Methylphenol	47	
91-57-6	2-Methylnaphthalene	44	
77-47-4	Hexachlorocyclopentadiene	20	
88-06-2	2,4,6-Trichlorophenol	47	
95-95-4	2,4,5-Trichlorophenol	48	
91-58-7	2-Chloronaphthalene	43	
88-74-4	2-Nitroaniline	43	
131-11-3	Dimethylphthalate	46	
208-96-8	Acenaphthylene	44	
606-20-2	2,6-Dinitrotoluene	46	
99-09-2	3-Nitroaniline	40	
83-32-9	Acenaphthene	46	

FORM I SV-1

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S1QLCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: S0825-LW1D

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0680

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/25/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02

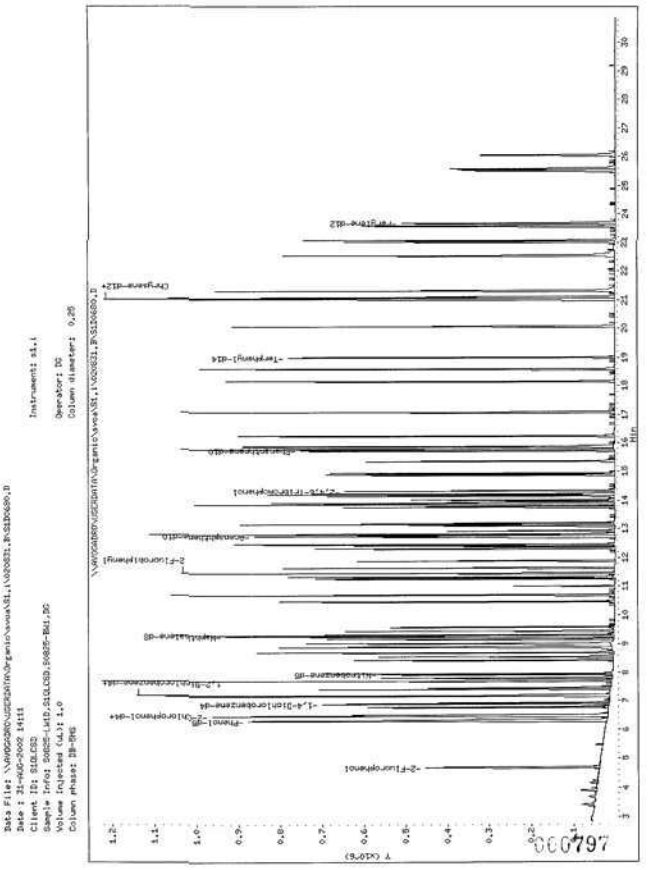
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	46	
100-02-7	4-Nitrophenol	46	
132-64-9	Dibenzofuran	48	
121-14-2	2,4-Dinitrotoluene	48	
84-66-2	Diethylphthalate	46	
7005-72-3	4-Chlorophenyl-phenylether	47	
86-73-7	Fluorene	47	
100-01-6	4-Nitroaniline	39	
534-52-1	4,6-Dinitro-2-methylphenol	47	
86-30-6	N-Nitrosodiphenylamine (1)	40	
101-55-3	4-Bromophenyl-phenylether	46	
118-74-1	Hexachlorobenzene	48	
87-86-5	Pentachlorophenol	48	
85-01-8	Phenanthrene	48	
120-12-7	Anthracene	47	
86-74-8	Carbazole	49	
84-74-2	Di-n-butylphthalate	48	
206-44-0	Fluoranthene	49	
129-00-0	Pyrene	46	
85-68-7	Butylbenzylphthalate	44	
91-94-1	3,3'-Dichlorobenzidine	25	
56-55-3	Benzo(a)anthracene	46	
218-01-9	Chrysene	44	
117-81-7	bis(2-Ethylhexyl)phthalate	45	
117-84-0	Di-n-octylphthalate	49	
205-99-2	Benzo(b)fluoranthene	46	
207-08-9	Benzo(k)fluoranthene	47	
50-32-8	Benzo(a)pyrene	44	
193-39-5	Indeno(1,2,3-cd)pyrene	44	
53-70-3	Dibenzo(a,h)anthracene	44	
191-24-2	Benzo(g,h,i)perylene	43	

(1) - Cannot be separated from Diphenylamine

FORM I SV-2



Data File: S1D0680.D
Report Date: 03-Sep-2002 08:00

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1D0680.D
Lab Smp Id: S0825-LW1D Client Smp ID: S1QLCSD
Inj Date : 31-AUG-2002 14:11
Operator : DG Inst ID: s1.i
Smp Info : S0825-LW1D,S1QLCSD,S0825-BW1,DG
Misc Info : 3,,LCSD,1,,,,,,,25-AUG-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S1.i\020831.B\S1_8270C.m
Meth Date : 31-Aug-2002 12:45 mtl Quant Type: ISTD
Cal Date : 26-AUG-2002 21:07 Cal File: S1D0561.D
Als bottle: 5 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	3 2-Fluorophenol	112	4.684	4.691	(0.679)	294047	41.7411	42
S	5 Phenol-d5	99	6.304	6.300	(0.914)	482327	56.0975	56
	6 Phenol	94	6.326	6.333	(0.917)	364113	40.8114	41
	8 bis(2-Chloroethyl)Ether	93	6.477	6.484	(0.939)	259751	39.5800	40
S	9 2-Chlorophenol-d4	132	6.488	6.495	(0.940)	406827	58.7082	59
	10 2-Chlorophenol	128	6.520	6.527	(0.945)	293456	41.2896	41
	11 1,3-Dichlorobenzene	146	6.790	6.797	(0.984)	232880	36.9057	37
*	12 1,4-Dichlorobenzene-d8	152	*6.898*	*6.905*	*(1.000)*	*382868*	*60.0000*	
	13 1,4-Dichlorobenzene	146	6.931	6.938	(1.005)	240505	38.1496	38
S	14 1,2-Dichlorobenzene-d4	152	7.168	7.165	(1.039)	162729	44.1790	44
	16 1,2-Dichlorobenzene	146	7.199	7.197	(1.042)	224705	40.0921	40
	17 2 Methylphenol	108	7.406	7.402	(1.074)	262998	45.2588	45
	18 2,2'-oxybis(1-Chloropropane)	45	7.449	7.456	(1.080)	419547	40.5708	40
	20 4-Methylphenol	108	7.697	7.705	(1.116)	275047	47.3047	47

Data File: S1D0680.D
Report Date: 03-Sep-2002 08:00

	Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	19 N-Nitroso-di-n-propylamine	70	7.687	7.694	(1.114)	184725	42.1896	42
	21 Hexachloroethane	117	7.805	7.813	(1.132)	124769	41.8744	42
S	22 Nitrobenzene-d5	82	7.924	7.931	(0.854)	326966	43.1119	43
	23 Nitrobenzene	77	7.957	7.964	(0.858)	312137	43.1607	43
	24 Isophorone	82	8.432	8.450	(0.909)	344720	39.5076	40
	25 2-Nitrophenol	139	8.562	8.569	(0.923)	183047	43.2857	43
	26 2,4-Dimethylphenol	107	8.702	8.709	(0.938)	269822	43.3421	43
	27 bis(2-Chloroethoxy)methane	93	8.896	8.904	(0.959)	168908	44.8311	45
	29 2,4 Dichlorophenol	162	9.026	9.033	(0.973)	226993	46.1037	46
	30 1,2,4-Trichlorobenzene	180	9.177	9.184	(0.990)	207202	41.4357	41
*	31 Naphthalene-d8	136	9.274	9.282	(1.000)	685962	40.0000	
	32 Naphthalene	128	9.318	9.325	(1.005)	717877	42.2184	42
	33 4-Chloroaniline	127	9.458	9.465	(1.020)	284365	34.9871	35
	34 Hexachlorobutadiene	225	9.598	9.595	(1.035)	99240	39.0018	39
	35 4-Chloro-3-Methylphenol	107	10.463	10.459	(1.128)	253263	47.4858	47
	36 2-Methylnaphthalene	142	10.689	10.697	(1.153)	483333	44.2883	44
	38 Hexachlorocyclopentadiene	237	11.013	11.010	(0.864)	58067	20.1909	20
	39 2,4,6-Trichlorophenol	196	11.273	11.269	(0.884)	165314	46.6819	47
	40 2,4,5-Trichlorophenol	196	11.327	11.334	(0.888)	170040	48.2080	48
S	42 2 Fluorobiphenyl	172	11.456	11.464	(0.898)	491633	46.2295	46
	43 2-Chloronaphthalene	162	11.640	11.647	(0.913)	374904	43.1870	43
	44 2-Nitroaniline	65	11.888	11.896	(0.932)	171468	43.3470	43
	46 Dimethylphthalate	163	12.320	12.328	(0.966)	537482	45.8590	46
	45 2,6-Dinitrotoluene	165	12.418	12.425	(0.974)	140115	45.9477	46
	48 Acenaphthylene	152	12.461	12.457	(0.977)	688155	44.2000	44
	47 3-Nitroaniline	138	12.720	12.727	(0.997)	153352	39.7123	40
*	48 Acenaphthene-d10	164	12.753	12.760	(1.000)	334685	40.0000	
	49 Acenaphthene	153	12.817	12.824	(1.005)	415881	45.5653	46
	50 2,4-Dinitrophenol	184	12.936	12.943	(1.014)	96679	45.9480	46
	51 4-Nitrophenol	109	13.120	13.127	(1.029)	75236	45.3280	46
	53 2,4-Dinitrotoluene	165	13.206	13.213	(1.036)	176029	48.2028	48
	52 Dibenzofuran	168	13.174	13.170	(1.033)	639942	48.4888	48
	54 Diethylphthalate	149	13.768	13.764	(1.080)	559056	46.3431	46
	56 4-Chlorophenyl-phenylether	204	13.908	13.915	(1.091)	225300	46.9527	47
	55 Fluorene	166	13.854	13.861	(1.086)	473926	46.8885	47
	57 4-Nitroaniline	138	13.951	13.959	(1.094)	146874	39.4838	39
	58 4,6-Dinitro-2-methylPhenol	198	14.016	14.023	(0.893)	126201	46.5082	47
	59 N-Nitrosodiphenylamine	169	14.157	14.164	(0.900)	274495	39.8272	40
S	60 2,4,6-Tribromophenol	330	14.340	14.337	(0.912)	126437	69.8253	70
	61 4-Bromophenyl-phenylether	248	14.880	14.888	(0.946)	125241	45.8101	46
	62 Hexachlorobenzene	*284*	*14.965*	*14.952*	*(0.951)*	*149988*	*47.8602*	*48*
	63 Pentachlorophenol	266	15.356	15.363	(0.977)	106338	47.9040	48
*	64 Phenanthrene-d10	188	15.723	15.719	(1.000)	531994	40.0000	
	65 Phenanthrene	178	15.766	15.773	(1.003)	661661	48.2866	48
	66 Anthracene	178	15.874	15.870	(1.010)	657458	47.6650	47
	67 Carbazole	167	16.231	16.227	(1.032)	642995	48.6597	49
	68 Di-n-butylphthalate	149	17.073	17.069	(1.086)	983830	47.7694	48

#3444

MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : SEMIVOLATILES

Date: 8-25-02	Analysis: SVOC	Method & SOP #: Aq: 3510C (Sep/F) Soil: 3550B (Sonic) 3520C (Liq/Liq) 3540C (Soxhlet) Other:		Matrix: Aqueous Soil Wipe Oil Other:	Project(s): A1243
Blank ID: S0825 Bw1	LCS ID: Lw1 S0825 Lw1 Dup	Analyst: TS	Spiked By: TS	Witness: —	Solvent Lot#: X10 H00	H₂SO₄ Lot#: 319020	NaOH Lot#:	Time Started: 1520 Time Ended: 0800

Project ID	Sample ID	Sample Wt (g) / Vol (ml)	Surrogate Spike Added	Matrix Spike Added	H_2SO_4 pH<2	NaOH pH > 10	Emulsion	KD Prior to Fractionation Date / Analyst	Fractionation Date / Analyst	Final Concentration Date / Analyst	Final Conc. Volume	Date Extract Trans.
S0825	Bw1	1000ml	05w0205D 500µl	—	✓	—				8/27/02 TP	1ml	8/27/02
↓	Lw1			05w0205EA 500µl								
S0825	Lw1 Dup			05w0205EA 500µl								
A1243	017											
	019											
	020											
	022											
	027											
	028											
	033											
	037											
↓	040	↓	↓	↓	↓					↓	↓	↓
A1243	041	1000ml	05w0205D 500µl	—	✓	—				8/27/02	TP	1ml	8/27/02

TS 9/26/02

Comments:

802

Sonicator Tuned: Yes / No

Water Bath Temperature: 40°c

Logbookk ID 50.0147-2/02 Reviewed By: KL 9/6/02 Logbook Page 000034

Data File: S1D0680.D
Report Date: 03-Sep-2002 08:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
69 Fluoranthene	302	18.153	18.150	(1.155)	724541	48.8222	49
70 Pyrene	302	18.585	18.592	(0.883)	704463	46.2398	46
\$ 71 Terphenyl-d14	244	19.007	19.003	(0.903)	445659	45.2987	45
72 Butylbenzylphthalate	149	20.065	20.072	(0.954)	437485	44.1010	44
74 3,3'-Dichlorobenzidine	252	21.026	21.034	(0.999)	110806	24.8920	25
75 Benzo(a)anthracene	228	21.016	21.012	(0.999)	575163	45.6974	46
* 76 Chrysene-d12	240	21.037	21.034	(1.000)	392010	40.0000	
78 bis(2-Ethylhexyl)phthalate	149	21.286	21.293	(1.012)	577666	44.9202	45
77 Chrysene	228	21.091	21.088	(1.003)	515349	44.0679	44
79 Di-n-octylphthalate	149	22.539	22.535	(0.952)	962817	49.2489	49
80 Benzo(b)fluoranthene	252	23.035	23.021	(0.973)	475725	46.4834	46
81 Benzo(k)fluoranthene	252	23.079	23.075	(0.975)	493874	47.4061	47
82 Benzo(a)pyrene	252	23.576	23.572	(0.996)	413339	44.3017	44
* 83 Perylene-d12	264	23.673	23.669	(1.000)	356248	40.0000	
84 Indeno(1,2,3-cd)pyrene	276	25.520	25.527	(1.078)	335360	43.5582	44
85 Dibenz(a,h)anthracene	278	25.585	25.581	(1.081)	329116	43.8983	44
86 Benzo(g,h,i)perylene	276	26.060	26.056	(1.101)	311733	42.6741	43

SWA 9/4/02

000800

Mitkem Corporation SVOA GC/MS Logbook Instrument S1

Date 8/26/02 (B) Tune : mo 17:29 / 22:27 Initial Calibration Date 8/26/02 (8270 ALL) Analyst SWA

TF PCP EMV 1906 % BKD DDT Benzidine

File ID		Lab ID	Client ID	Method	Dilution	Comments	IS	Surr.
S1D 05	54	SF0824A	DFTPP16	DFTPP	—	don't use		
	55	SF0826A	DFTPP16	DFTPP		ok (full pach scan Any)		
	56	S3082GA	SSTD050 16	BNA				
	57	SS08366	SSTD010 16			ok ~~8270 ALL~~ SWA 8/27/02		
	58	SS08260	SSTD020 16			8270 ALL		
	59	SS0826F	SSTD080 16			8270 Aug 9.26		
	60	SS0826F	SSTD120 16					
	61	SS0826B	SSTD160 16					
↓	62	SS0826B	SSTD160 16	↓	↓			
S1D05	63	ICV	—	BNA	—	ok Benzidine < 35		

SWA 8/27/02

Daily Maintenance	
Gold Seal	—
Liner	—
Clipped Column	—
Ferrule	—

Comments

803

Logbook ID 70.0167-1/02 Reviewed by KL 9/6/02 Logbook Page 0065

#3091

MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : SEMIVOLATILES

Date: 8-21-02	Analysis: 8270	Method & SOP #: Aq: 3510C (Sep/F) Soil: 3550B (Sonic) 3520C (Liq/Liq) 3540C (Soxhlet) Other:		Matrix: Aqueous Soil Wipe Oil Other:	Project(s): A1243, A1244
Blank ID: S0821 Bw1	LCS ID: S0821 Lw1 Lw1D	Analyst: GP	Spiked By: GP	Witness: GP	Solvent Lot#: X10H00	H₂SO₄ Lot#: 319030	NaOH Lot#:	Time Started: 19:00 Time Ended: 21:00

Project ID	Sample ID	Sample Wt (g) / Vol (ml)	Surrogate Spike Added	Matrix Spike Added	H_2SO_4 pH<2	NaOH pH > 10	Emulsion	KD Prior to Fractionation Date / Analyst	Fractionation Date / Analyst	Final Concentration Date / Analyst	Final Conc. Volume	Date Extract Trans.
S0821	Bw1	1000ml	05w0205D 500µl	—	✓					8/22/02 GP	1ml	8/22/02
↓	Lw1		05w0205D 500µl	05w0205EA 500µl	✓							
S0821	Lw1D			05w0205EA 500µl	✓							
~~A1243~~	024			—	✓							
	011				✓							
	015				✓							
A1243	016				✓							
A1244	002				✓							
	003				✓							
	004				✓							
	005				✓							
	006				✓							
	007				✓							
	008				✓							
	009				✓							
↓	010	↓	↓	↓	✓					↓	↓	↓
A1244	011	1000ml	05w0205D 500µl	—	✓					8/22/02	GP	1ml	8/22/02

GP 8/21/02

GP 9/4/02

Comments:

0801

Sonicator Tuned: Yes / No

Water Bath Temperature: 40°c

Logbookk ID 50.0147-2/02 Reviewed By: KL 9/6/02 Logbook Page 000026

Mitkem Corporation SVOA GC/MS Logbook Instrument S1

Date 8/31/02 Tune Time 11.37 / 21 25 Initial Calibration Date 8/26/02 (8270 ALL) Analyst [illegible]/DG

TF PCP EMV 1906 % BKD DDT Benzidine

File ID		Lab ID		Client ID	Method	Dilution	Comments	IS	Surr.
~~S10831A~~									
S1006	76	S10831A		DFTPPIN	DFTPP	–	OK 11 37		
	77	SS0831A		SSTD050IN	BNA		OK 8270 C		
	78	SO835 -	BW1	SBLK1Q			OK	✓	✓
	79		LW1	S1QLCS			OK	✓	✓
	80		LW1D	S1QLCSD			OK	✓	✓
	81	A1243 -	17F	13MW11			OK	✓	✓
	82		18G	13MW33			OK	✓	✓
	83		20G	EMW36			OK	✓	✓
	84		22A	3MW6			OK	✓	✓
	85		27A	3MW19M			OK	✓	✓
	86		28G	3MW27			OK	✓	✓
	87		33G	12GWMW17			OK	✓	✓
	88		37F	GWMW37			OK	✓	✓
	89	↓	40F	12GWMW20			OK	✓	✓
↓	90	A1243 -	41F	12GWMW25	↓	↓	OK	✓	
S1006	91	CCV			BNA	–	21 25 Di-n-octylphthalate -60 * see below		
						DM 9/3/02			

Daily Maintenance	
Gold Seal	–
Liner	–
Clipped Column	✓
Ferrule	–

Comments * , Indeno, Dibenzo (a,h), Benzo(g,h,i) - <35

Reviewed by KL 9/6/02

Logbook Page 0073

Logbook ID 70.0167-1/02

Mitkem Corporation SVOA GC/MS Logbook Instrument S1

Date 8/27/02 Tune Time ~~1400~~ 9:53 / 21 26 Initial Calibration Date 8/26/02 8270 ALL) Analyst [illegible]

TF PCP EMV 1906 % BKD DDT Benzidine

File ID		Lab ID		Client ID	Method	Dilution	Comments	IS	Surr.
S1005	64	ST0827A		DFTPPIF	DFTPP		OK (Full scan average)		
	65	SS0827A		SSTD050IF	BNA		OK (8270 ALL)		
	66	SO822 -	BW1	SBLK1F			OK	✓	✓
	67	SO822	LW1	S1FLCS			Hexachlorocyclopentadiene ↓ OK	✓	✓
	68	SO822	LW1D	S1FLCSD			Hexachlorocyclopentadiene ↓ OK	✓	✓
	69	SO821	BW1	SBLK1G			RR	✓	2 ↑
	70	SO821	LW1	S1GLCS			OK [illegible] ↑	✓	✓
	71	SO821	LW1D	S1GLCSD			OK	✓	✓
	72	SO824	BS1	SBLK1H			OK	✓	✓
	73	SO824 -	LS1	S1HLCS			OK	✓	✓
	74	SO824 -	LS1D	S1HLCSD			OK	✓	✓
	75	A1253 -	01D	GWEFE			OK	✓	✓
	76	A1243 -	04D	MW 34			OK	✓	✓
	77		11F	MW-35			OK	✓	✓
	78	↓	16G	MW-26			OK	✓	✓
	79	A1243	15E	MW-13			OK.	✓	✓
	80	A1255	01B	44 LANFER			OK	✓	✓
↓	81	A1261	01A	SAEP 02-TB-1	↓	↓	OK	✓	✓
S1005	82	CCV		–	BNA	–	all <35 21:26		

Daily Maintenance	
Gold Seal	–
Liner	–
Clipped Column	✓
Ferrule	–

Comments

[illegible] 9/28/02

Reviewed by KL 9/6/02

Logbook Page 0066

Logbook ID 70.0167-1/02

MITKEM CORPORATION: Sample Receipt Tracking Logbook

Project	Date Received	Client	Storage Location	#'s/ Analyst/ Date In	#'s/ Analyst/ Date Out	#'s/ Analyst/ Date In	#'s/ Analyst/ Date Out	#'s/ Analyst/ Date In	#'s/ Analyst/ Date Out	#'s/ Analyst/ Date In	Dispose After	Date Disposed
A1241	8-20-02	EPA	C Floor VOA	01-07 01-08	1-7 SP 8/22	Empty SP					11-20-02	
A1242	8/20/02	EA	A5: #1-11	KV #1-11 8/20/02	KV 01-11 8/20/02						10-20-02	
A1243* (Cusanu)	8-23-02 8-20-02 8-21-02 8-22-02	VOA 33-41, 37-41; SVO 33-41, 37-41; MI 33-41, 37-41; HRP; VOA 17-27, 23-26, 29-31; SVO 17, 19, 20, 24, 28; MI 17, 19, 20, 24, 28; 23, 17, 19, 20, 27, 24, 23, 28, 32	EI VOA MI M3 EH SUB	00-11, 14-[illegible] 01-05, 00-12, 14-[illegible] 01-04 01-04 02-04	2-4 [illegible] 03, 04, 11, [illegible] 00, 07, 08, [illegible]	2-4 [illegible] 8/21 12, 13 [illegible] 11, 15, 16 [illegible]	4, 11, 15, 16 SP 8/21 6-8, [illegible] 15-16 18, 20, 24	Empty SP [illegible]	17, 18, 20, 21, 28, 32, 33, 34, 37-41 TS 8/24 ; 17, 18, 20, 22, 27, 28, 33, 37, 40, 41 TS 8/24	Empty TS	11-20-02	
A1244	8-20-02 8-21-02	Tetra Tech	VOA M2 EH	01-11, 12-16 02-11, 12, 13, 15, 16 03-11, 12, 13, 15, 16			2-11 SP 8/21 12, 13, 15, 16 SP 8/22	Empty SP Empty SP	2-11, 12, 13, 15, 16 [illegible]		11-20-02	
A1245	8-21-02	Southwest	A1	01-04	1-4 GP 8-21-02	1-4 GP 8-21-02					10-21-02	

00080

Logbook ID 30.0187-1/02 Reviewed By: (NR) Logbook page 1

Mitkem Corporation SVOA GC/MS Logbook Instrument S1

Date 08/27/02 Tune Time 22:12 / 9:03 Initial Calibration Date 8/26/02 (8270 ALL) Analyst [illegible]

TF PCP EMV 1906 % BKD DDT 23.6% Benzidine

File ID		Lab ID		Client ID	Method	Dilution	Comments	IS	Surr.
S1005	83	ST0827B		DFTPPIC	DFTPP	–	don't use		
	84	ST0827B		DFTPPIC	DFTPP	–	OK 22:12		
	85	SS0827B		SSTD050IC	BNA	–	OK (PAH + SOCW)		
	86	SO821 -	BW1	SBLK1C		–	OK	✓	2 ↑
	87	SO816 -	BS1	SBLK1J		–	OK	✓.	✓
	88	SO806 -	LS1	S1JLCS		–	OK	✓	✓
	89	A1213 -	01A	12316XX		2	OK Nap-159	✓	✓
	90	A1213 -	03A	070268095		10	OK Nap-150	✓	✓
	91	A1213 -	02A	070223345		5	~~RRBX~~ ok [illegible] Nap-161	✓	✓
	92	A1245 -	01ADL	3ADL		40	OK PCP-89	✓	✓
	93		05ADL	5CDL		80	OK PCP-53	✓	OK ↓
	94		04ADL	5DDL		40	OK PCP-53	✓	✓ 30%
	95		02ADL	3DDL		40	OK PCP-96	✓	✓ 40%
	96		01A	3A		–	OK PCP-4372	45% ↓	1 ↑
	97		02A	3D		–	OK PCP-4333	4.6% ↓	1 ↑
↓	98	↓	03A	5C		–	OK. PCP-5433	4.5% ↓	3 ↑
S1005	99	A1245 -	04A	5D		–	OK PCP-3606	4.5% ↓	2 ↑
S1006	00	CCV		–	↓	–	all <35 9:03	✓	
S1006	01	OSW020806L		LFB	BNA				

Daily Maintenance	
Gold Seal	–
Liner	–
Clipped Column	–
Ferrule	–

Comments

[illegible] 8/29/02

Reviewed by KL 9/6/02

Logbook Page 0067

Logbook ID 70.0167-1/02

MITKEM CORPORATION EXTRACT TRANSFER LOGBOOK: SEMIVOLATILE ANALYSIS

Date Transferred from Prep Lab	Lab ID	Transferred By	Received By	Storage Location	Comments
8-27-02	A1254 - 002	JC	IC	R7	SPLP
	003				
	004				
	005				
8-27-02	A1254 006	JC			
	MB-3162				
	LCS-3162				
	LCSP-3162				
	A1273-001				
	002				
	003				
	004				
	005				
	006ms				
	006msd				
	006				
	007				
	008				
	009				
8-27-02	A1273 010	JC	IC	R7	SPLP
	SO835 BW1	RP	SMM	R7	
	LW1				
	SO835 LW10				
	A1243 017				
	018				
	019				
	032				
	037				
	038				
	033				
	039				
	040				
	A1263 041				
	MB 3163				
8/30/02	A1263 001	JP	SMM	R7	

QAT00141

Log ID: 9SV-12 Reviewed By: [signature] Page: 0008 08

MITKEM CORPORATION EXTRACT TRANSFER LOGBOOK: SEMIVOLATILE ANALYSIS

Date Transferred from Prep Lab	Lab ID	Transferred By	Received By	Storage Location	Comments
8-22-02	SO819 BS1	PP	CMS	L7	
	A1234 001				
	001ms				
	001msp				
	002				
	003				
	004				
	005				
	006				
	007				
	008				Fwd Lmt
	009				
	A1234 010				
	SO831 BW1				
	LW1				
	SO831 LW10				
	A1243 004				
	011				
	015				
	A1243 006				
	A1244 002				
	003				
	004				
	005				
	006				
	007				
	008				
	009				
	010				
	A1244 011				
	GPC0820 SB1				
	GPC0831 SB1		CMS	R7	
	FO831 BW1		SMM	R12A	
	LW1		PMM	R12A	
8/30/02	FO831 LW10	JP	PMM	R12A	

QAT00141

Log ID: 9SV-12 Reviewed By: [signature] Page: 0008 09

MITKEM CORPORATION

* Metals *

"A" SDG

000810

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

SOW No.: ILM04.0

EPA Sample No.	Lab Sample ID
12MW17	A1243-33D
12MW20	A1243-40D
12MW25	A1243-41D
12MW25D	A1243-41DD
12MW25S	A1243-41DS
13MW11	A1243-17C
13MW33	A1243-18C
3MW27	A1243-28C
EMW36	A1243-20C
6MW29	A1243-24C
MW-34	A1243-04F
MW-35	A1243-11C
MW-6	A1243-01B
MW-6D	A1243-01BD
MW-6S	A1243-01BS
MW-8	A1243-07C
MW10	A1243-38D
MW14	A1243-34D
MW16	A1243-39D
MW37	A1243-37D

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES

If yes - were raw data generated before application of background corrections ? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [signature] Name: [signature]

Date: 9/8/02 Title:

COVER PAGE - IN SW846

000811

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
12MW17

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-33D
Level (low/med): MED Date Received: 08/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	124	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	874			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	4.2	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

000812

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
12MW17

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-33D
Level (low/med): MED Date Received: 08/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	1480			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

000813

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
12MW20

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-40D
Level (low/med): MED Date Received: 08/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	74.1	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	1340			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	3.1	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

000814

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
12MW20

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-40D
Level (low/med): MED Date Received: 08/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	2330			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

000815

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
12MW25

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-41D
Level (low/med): MED Date Received: 08/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	68.2	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	1220			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	2.9	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

000816

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
12MW25

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-41D
Level (low/med): MED Date Received: 08/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	2210			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

000817

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
13MW11

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-17C
Level (low/med): MED Date Received: 08/22/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	4.8	B		P
7440-39-3	Barium	184	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	8.2	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	9.7	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	4.4	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	552			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	7.2	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

000818

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
13MW11

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-17C
Level (low/med): MED Date Received: 08/22/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	302	B		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

000819

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
13MW33

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-18C
Level (low/med): MED Date Received: 08/22/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	166	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.2	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	5.0	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.3	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	473			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	3.4	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

000820

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
13MW33

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-18C
Level (low/med): MED Date Received: 08/22/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	297	B		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

000821

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
3MW27

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-28C
Level (low/med): MED Date Received: 08/22/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	199	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	7.1	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	6920			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	10	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

000822

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
3MW27

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-28C
Level (low/med): MED Date Received: 08/22/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	665			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

000823

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
EMW36

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-20C
Level (low/med): MED Date Received: 08/22/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	10.4	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	4.5	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	0.62	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
EMW36

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-20C
Level (low/med): MED Date Received: 08/22/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	130	U		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
6MW29

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-24C
Level (low/med): MED Date Received: 08/22/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	10.7	B		P
7440-39-3	Barium	78.8	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	913			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	2.0	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	14.5	B		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
6MW29

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-24C
Level (low/med): MED Date Received: 08/22/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	4250			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-34

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-04F
Level (low/med): MED Date Received: 08/20/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	17.5	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	4.8	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	9.7	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	7.0	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	19.5	B		P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	3.4	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	9.5	B		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-34

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-04F
Level (low/med): MED Date Received: 08/20/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	130	U		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-35

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-11C
Level (low/med): MED Date Received: 08/20/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	11.7	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.1	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	28.1	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	2.8	B		P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	2.6	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	11.3	B		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-35

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-11C
Level (low/med): MED Date Received: 08/20/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	130	U		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-6

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-01B
Level (low/med): MED Date Received: 08/20/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	74.1	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	4.0	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	17.1	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.5	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	1080			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	5.1	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	26.6	B		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

000832

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-6

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-01B
Level (low/med): MED Date Received: 08/20/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	556			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

000832

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-8

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-07C
Level (low/med): MED Date Received: 08/21/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	8.7	B		P
7440-39-3	Barium	65.0	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.9	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	4.8	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	2100			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	2.9	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	18.0	B		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

000833

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-8

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-07C
Level (low/med): MED Date Received: 08/21/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	526			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

000834

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW10

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Matrix (soil/water): WATER Lab Sample ID: A1243-38D

Level (low/med): MED Date Received: 08/23/02

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	8.0	B		P
7440-39-3	Barium	254			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	52.0			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	35.5			P
7439-89-6	Iron				NR
7439-92-1	Lead	14.4			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	830			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	25.1	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	80.9			P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

000835

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW10

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Matrix (soil/water): WATER Lab Sample ID: A1243-38D

Level (low/med): MED Date Received: 08/23/02

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	223	B		P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

000836

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW14

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Matrix (soil/water): WATER Lab Sample ID: A1243-34D

Level (low/med): MED Date Received: 08/23/02

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	6.5	B		P
7440-39-3	Barium	110	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	2400			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	1.2	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

000837

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW14

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Matrix (soil/water): WATER Lab Sample ID: A1243-34D

Level (low/med): MED Date Received: 08/23/02

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	597			P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

000838

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW16

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-39D
Level (low/med): MED Date Received: 08/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	196	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	3840			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	6.0	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	23.7	B		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW16

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-39D
Level (low/med): MED Date Received: 08/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	565			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW37

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-37D
Level (low/med): MED Date Received: 08/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	5.9	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	0.50	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW37

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-37D
Level (low/med): MED Date Received: 08/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	130	U		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Initial Calibration Source: INORG_VENTURES

Continuing Calibration Source: INORG_VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony									
Arsenic	500.0	522.58	104.5	500.0	504.95	101.0	512.11	102.4	P
Barium	10000.0	10874.54	108.7	10000.0	10515.42	105.2	10759.80	107.6	P
Beryllium									
Cadmium	250.0	255.79	102.3	250.0	248.22	99.3	254.38	101.8	P
Calcium									
Chromium	1000.0	1036.46	103.6	1000.0	1004.07	100.4	1029.75	103.0	P
Cobalt									
Copper	1250.0	1354.65	108.4	1250.0	1279.33	102.3	1309.07	104.7	P
Iron									
Lead	500.0	511.06	102.2	500.0	500.18	100.0	499.38	99.9	P
Magnesium									
Manganese	2500.0	2620.80	104.8	2500.0	2544.50	101.8	2605.31	104.2	P
Mercury	5.0	4.91	98.2	5.0	4.94	98.8	4.96	99.2	CV
Nickel	2500.0	2640.78	105.6	2500.0	2550.61	102.0	2607.59	104.3	P
Potassium									
Selenium	500.0	510.59	102.1	500.0	507.83	101.6	498.26	99.7	P
Silver	1250.0	1280.09	102.4	1250.0	1245.65	99.7	1277.70	102.2	P
Sodium									
Thallium									
Vanadium									
Zinc	2500.0	2633.75	105.4	2500.0	2549.64	102.0	2609.90	104.4	P
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Initial Calibration Source: INORG_VENTURES

Continuing Calibration Source: INORG_VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Boron	2500.0	2648.82	106.0	2500.0	2663.24	106.5	2566.54	102.7	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Initial Calibration Source:

Continuing Calibration Source: INORG_VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony									
Arsenic				500.0	508.78	101.8			P
Barium				10000.0	10772.34	107.7			P
Beryllium									
Cadmium				250.0	257.23	102.9			P
Calcium									
Chromium				1000.0	1038.80	103.9			P
Cobalt									
Copper				1250.0	1321.40	105.7			P
Iron									
Lead				500.0	506.85	101.4			P
Magnesium									
Manganese				2500.0	2646.29	105.9			P
Mercury				5.0	4.92	98.4	4.91	98.2	CV
Nickel				2500.0	2601.37	104.1			P
Potassium									
Selenium				500.0	506.02	101.2			P
Silver				1250.0	1297.21	103.8			P
Sodium									
Thallium									
Vanadium									
Zinc				2500.0	2633.58	105.3			P
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Initial Calibration Source:

Continuing Calibration Source: INORG_VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Boron				2500.0	2638.34	105.5			P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A_

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Barium	3.0	U	3.0	U	3.0	U	3.0	U	10.792	B	P
Beryllium											
Cadmium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Calcium											
Chromium	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Cobalt											
Copper	13.6	B	2.4	B	2.0	U	2.0	U	18.226	B	P
Iron											
Lead	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Magnesium											
Manganese	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.100	U	CV
Nickel	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Potassium											
Selenium	8.0	U	8.0	U	8.0	U	8.0	U	8.000	U	P
Silver	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Sodium											
Thallium											
Vanadium											
Zinc	8.0	U	8.0	U	8.0	U	8.0	U	8.000	U	P
Cyanide											

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A_

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Boron	12.2	B	-1.0	B	-3.9	B	-6.1	B	-16.011	B	P

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A_

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead											
Magnesium											
Manganese											
Mercury			0.1	U							CV
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

U.S. EPA - CLP

4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

ICP ID Number: OPTIMA_2A ICS Source: HIGH_PURITY

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum								
Antimony								
Arsenic		100		96.1	96.1		103.7	103.7
Barium		500		516.4	103.3		517.1	103.4
Beryllium								
Cadmium		1000		915.9	91.6		930.1	93.0
Calcium								
Chromium		500		497.9	99.6		506.1	101.2
Cobalt								
Copper		500		595.8	119.2		581.1	116.2
Iron								
Lead		500		446.5	89.3		451.4	90.3
Magnesium								
Manganese		500		493.9	98.8		503.0	100.6
Mercury								
Nickel		1000		922.1	92.2		928.3	92.8
Potassium								
Selenium		500		467.9	93.6		485.3	97.1
Silver		200		172.9	86.4		176.3	88.2
Sodium								
Thallium								
Vanadium								
Zinc		1000		922.0	92.2		934.9	93.5

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MW-6S

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic	75-125	477.1265		3.0000	U	455.00	104.9		P
Barium	75-125	9457.0250		74.0685	B	9100.00	103.1		P
Beryllium									NR
Cadmium	75-125	223.1675		2.0000	U	227.00	98.3		P
Calcium									NR
Chromium	75-125	924.2300		4.0215	B	910.00	101.1		P
Cobalt									NR
Copper	75-125	1233.7305		17.0520	B	1130.00	107.7		P
Iron									NR
Lead	75-125	435.9715		1.4850	B	455.00	95.5		P
Magnesium									NR
Manganese	75-125	3624.5865		1083.7115		2270.00	111.9		P
Mercury									NR
Nickel	75-125	2300.3785		5.1390	B	2270.00	101.1		P
Potassium									NR
Selenium	75-125	445.2390		8.0000	U	455.00	97.9		P
Silver	75-125	1159.3605		2.0000	U	1130.00	102.6		P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc	75-125	2346.2270		26.6000	B	2270.00	102.2		P
Cyanide									NR

Comments:

Form V (Part 1) - IN SW846

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

12MW25S

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury	75-125	4.1232		0.1340	U	4.55 7.05	90.6 85.2		CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

Form V (Part 1) - IN SW846

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MW-6S

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Boron	75-125	2903.9960		556.1230		2250.00	104.3		P

Comments:

Form V (Part 1) - IN SW846

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

MW-6D

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic		3.0000	U	3.0000	U			P
Barium		74.0685	B	91.4725	B	21.0		P
Beryllium								NR
Cadmium		2.0000	U	2.0000	U			P
Calcium								NR
Chromium		4.0215	B	5.9220	B	38.2		P
Cobalt								NR
Copper		17.0520	B	17.4755	B	2.5		P
Iron								NR
Lead		1.4850	B	2.2480	B	40.9		P
Magnesium								NR
Manganese		1083.7115		1290.5620		17.4		P
Mercury								NR
Nickel		5.1390	B	6.5865	B	24.7		P
Potassium								NR
Selenium		8.0000	U	8.0000	U			P
Silver		2.0000	U	2.0000	U			P
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc		26.6000	B	31.5320	B	17.0		P
Cyanide								NR

FORM VI - IN SW846

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.
MW-6D

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Level (low/med): MED
% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Boron	500.0	556.1230		666.1355		18.0		P

FORM VI - IN SW846

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.
12MW25D

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Level (low/med): MED
% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead								NR
Magnesium								NR
Manganese								NR
Mercury		0.1340	U	0.1380	U			CV
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

FORM VI - IN SW846

U.S. EPA - CLP

7
LABORATORY CONTROL SAMPLE

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Solid LCS Source:
Aqueous LCS Source: HIGH_PURITY

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic	455.0	476.1	104.6					
Barium	9100.0	10150.0	111.5					
Beryllium								
Cadmium	227.0	233.7	103.0					
Calcium								
Chromium	910.0	985.1	108.3					
Cobalt								
Copper	1130.0	1227.0	108.6					
Iron								
Lead	455.0	467.5	102.7					
Magnesium								
Manganese	2270.0	2494.6	109.9					
Mercury	4.6	4.3	93.5					
Nickel	2270.0	2474.0	109.0					
Potassium								
Selenium	455.0	459.3	100.9					
Silver	1130.0	1195.0	105.8					
Sodium								
Thallium								
Vanadium								
Zinc	2270.0	2494.2	109.9					
Cyanide								

FORM VII - IN SW846

U.S. EPA - CLP

7
LABORATORY CONTROL SAMPLE

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Solid LCS Source:
Aqueous LCS Source: HIGH_PURITY

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits	%R
Boron	2250.0	2328.4	103.5					

FORM VII - IN SW846

U.S. EPA - CLP

9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

MW-6L

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Matrix (soil/water): WATER Level (low/med): MED

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							NR
Antimony							NR
Arsenic	3.00	U	15.00	U			P
Barium	74.07	B	81.68	B	10.3		P
Beryllium							NR
Cadmium	2.00	U	10.00	U			P
Calcium							NR
Chromium	4.02	B	15.00	U	100.0		P
Cobalt							NR
Copper	17.05	B	20.68	B	21.3		P
Iron							NR
Lead	1.48	B	5.00	U	100.0		P
Magnesium							NR
Manganese	1083.71		1189.20		9.7		P
Mercury							NR
Nickel	5.14	B	6.08	B	18.3		P
Potassium							NR
Selenium	8.00	U	40.00	U			P
Silver	2.00	U	10.00	U			P
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc	26.60	B	40.00	U	100.0		P

U.S. EPA - CLP

9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

MW-6L

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Matrix (soil/water): WATER Level (low/med): MED

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Boron	556.12		602.69	B	8.4		P

U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

ICP ID Number: OPTIMA_2A Date: 02/01/02

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wavelength (nm)	Background	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			20		NR
Arsenic	188.98		20	3.0	P
Barium	233.53		200	3.0	P
Beryllium			6		NR
Cadmium	226.50		6	2.0	P
Calcium			800		NR
Chromium	267.72		20	3.0	P
Cobalt			50		NR
Copper	324.75		30	2.0	P
Iron			200		NR
Lead	220.35		10	1.0	P
Magnesium			500		NR
Manganese	257.61		50	2.0	P
Mercury			0.1		NR
Nickel	231.60		50	0.5	P
Potassium			500		NR
Selenium	196.03		30	8.0	P
Silver	328.07		30	2.0	P
Sodium			1000		NR
Thallium			20		NR
Vanadium			50		NR
Zinc	206.20		50	8.0	P
Cyanide			20		NR

Comments:

U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

ICP ID Number: OPTIMA_2A Date: 02/01/02

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wavelength (nm)	Background	CRDL (ug/L)	IDL (ug/L)	M
Boron	249.77		500	130.0	P

Comments:

U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: *MITKEM_CORPORATION* *Contract:*

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

ICP ID Number: Date: 02/01/02

Flame AA ID Number: COMM_FIMS

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			20		NR
Arsenic			20		NR
Barium			200		NR
Beryllium			6		NR
Cadmium			6		NR
Calcium			800		NR
Chromium			20		NR
Cobalt			50		NR
Copper			30		NR
Iron			200		NR
Lead			10		NR
Magnesium			500		NR
Manganese			50		NR
Mercury	253.70		0.1	0.1	CV
Nickel			50		NR
Potassium			500		NR
Selenium			30		NR
Silver			30		NR
Sodium			1000		NR
Thallium			20		NR
Vanadium			50		NR
Zinc			50		NR
Cyanide			20		NR

Comments:

FORM X - IN SW846

U.S. EPA - CLP

11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

ICP ID Number: OPTIMA_2A Date: 05/08/02

Analyte	Wave-length (nm)	Interelement Correction Factors for : Al	Ca	Fe	Mg	CR
Aluminum						
Antimony						
Arsenic	188.98	0.0000170	0.0000000	-0.0001048	0.0000000	-0.0096695
Barium	233.53	0.0000000	0.0000029	0.0000446	0.0000000	0.0000455
Beryllium						
Cadmium	226.50	0.0000000	0.0000000	0.0000420	0.0000000	0.0000000
Calcium						
Chromium	*267.72*	*0.0000000*	*0.0000000*	*-0.0000125*	*0.0000000*	*0.0000000*
Cobalt						
Copper	324.75	0.0000081	0.0000028	-0.0001402	0.0000000	0.0000000
Iron						
Lead	220.35	-0.0000778	-0.0000082	0.0000199	0.0000022	-0.0000409
Magnesium						
Manganese	257.61	-0.0000082	0.0000000	-0.0000520	0.0000169	-0.0001468
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium						
Selenium	196.03	0.0000156	0.0000000	-0.0002838	-0.0000040	-0.0000646
Silver	328.07	0.0000000	0.0000215	-0.0002382	0.0000000	0.0000208
Sodium						
Thallium						
Vanadium						
Zinc	206.20	-0.0000032	-0.0000040	-0.0000188	0.0000654	-0.0016320
Boron						

Comments:

FORM XI (Part 1) - IN SW846

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

ICP ID Number: OPTIMA_2A Date: 05/08/02

Analyte	Wave-length (nm)	Interelement Correction Factors for : CU	MN	NI	TI	TL
Aluminum						
Antimony						
Arsenic	188.98	0.0000000	0.0000757	0.0000000	-0.0004275	0.0000000
Barium	233.53	0.0000000	0.0000744	-0.0001113	0.0000000	0.0000000
Beryllium						
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium						
Chromium	267.72	0.0000284	0.0001891	0.0000000	0.0000000	0.0000000
Cobalt						
Copper	324.75	0.0000000	0.0012456	0.0001853	0.0008354	0.0002487
Iron						
Lead	220.35	-0.0000208	0.0001613	-0.0002934	-0.0005853	0.0000000
Magnesium						
Manganese	257.61	0.0000373	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000891	0.0000000	0.0002885	0.0001038
Potassium						
Selenium	196.03	0.0000230	0.0008214	0.0000631	0.0001602	0.0000856
Silver	328.07	0.0000524	0.0000000	0.0000000	0.0000000	0.0000000
Sodium						
Thallium						
Vanadium						
Zinc	206.20	0.0000000	0.0001798	-0.0000590	0.0009483	-0.0001373
Boron						

Comments:

FORM XI (Part 2) - IN SW846

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

ICP ID Number: OPTIMA_2A Date: 05/08/02

Analyte	Wave-length (nm)	Interelement Correction Factors for : V				
Aluminum						
Antimony						
Arsenic	188.98	0.0000769				
Barium	233.53	-0.0023189				
Beryllium						
Cadmium	226.50	0.0000000				
Calcium						
Chromium	267.72	-0.0002218				
Cobalt						
Copper	324.75	0.0000000				
Iron						
Lead	220.35	-0.0000323				
Magnesium						
Manganese	257.61	0.0000273				
Mercury						
Nickel	231.60	0.0000231				
Potassium						
Selenium	196.03	0.0002038				
Silver	328.07	-0.0004794				
Sodium						
Thallium						
Vanadium						
Zinc	206.20	0.0000315				
Boron						

Comments:

FORM XI (Part 2) - IN SW846

U.S. EPA - CLP

12
ICP LINEAR RANGES (QUARTERLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

ICP ID Number: OPTIMA_2A Date: 07/01/02

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum			NR
Antimony			NR
Arsenic	0.20	25000	P
Barium	0.20	50000	P
Beryllium			NR
Cadmium	0.20	10000	P
Calcium			NR
Chromium	0.20	50000	P
Cobalt			NR
Copper	0.20	25000	P
Iron			NR
Lead	0.20	100000	P
Magnesium			NR
Manganese	0.20	25000	P
Mercury			NR
Nickel	0.20	100000	P
Potassium			NR
Selenium	0.20	25000	P
Silver	0.20	2500	P
Sodium			NR
Thallium			NR
Vanadium			NR
Zinc	0.20	25000	P

Comments:

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
12MW17	08/27/02		50
12MW20	08/27/02		50
12MW25	08/27/02		50
13MW11	08/27/02		50
13MW33	08/27/02		50
3MW27	08/27/02		50
EMW36	08/27/02		50
6MW29	08/27/02		50
LCSW	08/27/02		50
MW-34	08/27/02		50
MW-35	08/27/02		50
MW-6	08/27/02		50
MW-6D	08/27/02		50
MW-6S	08/27/02		50
MW-8	08/27/02		50
MW10	08/27/02		50
MW14	08/27/02		50
MW16	08/27/02		50
MW37	08/27/02		50
PBW	08/27/02		50

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
12MW17	08/27/02		140
12MW20	08/27/02		142
12MW25	08/27/02		134
12MW25D	08/27/02		138
12MW25S	08/27/02		138
13MW11	08/27/02		138
13MW33	08/27/02		144
3MW27	08/27/02		142
EMW36	08/27/02		136
6MW29	08/27/02		138
LCSW	08/27/02		100
MW-34	08/27/02		144
MW-35	08/27/02		140
MW-6	08/27/02		128
MW-8	08/27/02		144
MW10	08/27/02		144
MW14	08/27/02		138
MW16	08/27/02		136
MW37	08/27/02		132
PBW	08/27/02		100

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Instrument ID Number: OPTIMA_2A Method: P

Start Date: 08/27/02 End Date: 08/27/02

EPA Sample No.	D/F	Time	%R	Analytes: ALB	SBA	SAS	BBE	CCD	CCA	CCR	CCO	CCU	FEE	PBG	MMN	HGI	NNI	KK	SSE	AAG	NNA	TTL	VV	ZNN	CNN
S0	1.00	1602				X	X		X		X		X		X		X		X	X				X	
S1	1.00	1606				X	X		X		X		X		X		X		X	X				X	
S2	1.00	1609				X	X		X		X		X		X		X		X	X				X	
S3	1.00	1611				X	X		X		X		X		X		X		X	X				X	
ZZZZZZ	1.00	1615																							
ZZZZZZ	1.00	1618																							
ZZZZZZ	1.00	1621																							
ZZZZZZ	1.00	1623																							
ZZZZZZ	1.00	1627																							
ICV	1.00	1631				X	X		X		X		X		X		X		X	X				X	
ICB	1.00	1634				X	X		X		X		X		X		X		X	X				X	
ICSA	1.00	1638																							
ICSAB	1.00	1641				X	X		X		X		X		X		X		X	X				X	
MW-35	1.00	1643				X	X		X		X		X		X		X		X	X				X	
PBW	1.00	1647				X	X		X		X		X		X		X		X	X				X	
LCSW	1.00	1652				X	X		X		X		X		X		X		X	X				X	
MW-6	1.00	1654				X	X		X		X		X		X		X		X	X				X	
MW-6D	1.00	1658				X	X		X		X		X		X		X		X	X				X	
MW-6S	1.00	1702				X	X		X		X		X		X		X		X	X				X	
MW-6L	1.00	1705				X	X		X		X		X		X		X		X	X				X	
CCV	1.00	1709				X	X		X		X		X		X		X		X	X				X	
CCB	1.00	1712				X	X		X		X		X		X		X		X	X				X	
ZZZZZZ	1.00	1716																							
MW-34	1.00	1718				X	X		X		X		X		X		X		X	X				X	
MW-8	1.00	1722				X	X		X		X		X		X		X		X	X				X	
13MW11	1.00	1726				X	X		X		X		X		X		X		X	X				X	
13MW33	1.00	1730				X	X		X		X		X		X		X		X	X				X	
EMW36	1.00	1734				X	X		X		X		X		X		X		X	X				X	
6MW29	1.00	1738				X	X		X		X		X		X		X		X	X				X	
ZZZZZZ	1.00	1743																							
ZZZZZZ	1.00	1745																							
CCV	1.00	1748				X	X		X		X		X		X		X		X	X				X	

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Instrument ID Number: OPTIMA_2A Method: P

Start Date: 08/27/02 End Date: 08/27/02

EPA Sample No.	D/F	Time	%R	Analytes
CCB	1.00	1750		X X X X X X X X X X X X X
3MW27	1.00	1755		X X X X X X X X X X X X X
12MW17	1.00	1759		X X X X X X X X X X X X X
MW14	1.00	1803		X X X X X X X X X X X X X
MW37	1.00	1807		X X X X X X X X X X X X X
MW10	1.00	1811		X X X X X X X X X X X X X
MW16	1.00	1815		X X X X X X X X X X X X X
12MW20	1.00	1819		X X X X X X X X X X X X X
12MW25	1.00	1824		X X X X X X X X X X X X X
ICSA	1.00	1828		
ICSAB	1.00	1830		X X X X X X X X X X X X X
CCV	1.00	1833		X X X X X X X X X X X X X
CCB	1.00	1836		X X X X X X X X X X X X X

FORM XIV - IN SW846

000871

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Instrument ID Number: OPTIMA_2A Method: P

Start Date: 08/28/02 End Date: 08/28/02

EPA Sample No.	D/F	Time	%R	Analytes
S0	1.00	0912		X
S1	1.00	0914		X
S2	1.00	0917		X
S3	1.00	0919		X
ZZZZZZ	1.00	0921		
ICV	1.00	0924		X
ICB	1.00	0926		X
ICSA	1.00	0928		
ICSAB	1.00	0931		
PBW	1.00	0933		X
LCSW	1.00	0936		X
MW-6	1.00	0938		X
MW-6D	1.00	0940		X
MW-6S	1.00	0943		
MW-6L	1.00	0945		X
CCV	1.00	0948		X
CCB	1.00	0950		X
MW-34	1.00	0952		X
MW-8	1.00	0955		X
MW-35	1.00	0957		X
13MW11	1.00	0959		X
13MW33	1.00	1001		X
EMW36	1.00	1004		X
6MW29	1.00	1006		X
ZZZZZZ	1.00	1008		
ZZZZZZ	1.00	1011		
CCV	1.00	1013		X
CCB	1.00	1016		X
3MW27	1.00	1018		X
12MW17	1.00	1020		X
MW14	1.00	1023		X
MW37	1.00	1025		X

FORM XIV - IN SW846

000872

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Instrument ID Number: OPTIMA_2A Method: P

Start Date: 08/28/02 *End Date:* 08/28/02

EPA Sample No.	D/F	Time	%R	Analytes
MW10	1.00	1027		X
MW16	1.00	1030		X
12MW20	1.00	1032		X
12MW25	1.00	1034		X
ICSA	1.00	1037		
ICSAB	1.00	1039		
CCV	1.00	1042		X
CCB	1.00	1044		X

FORM XIV - IN SW846

000873

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Instrument ID Number: COMM_FIMS Method: CV

Start Date: 08/27/02 *End Date:* 08/27/02

EPA Sample No.	D/F	Time	%R	Analytes
S0	1.00	1207		X
S0.2	1.00	1208		X
S1	1.00	1209		X
S2	1.00	1211		X
S5	1.00	1212		X
S10	1.00	1214		X
ICV	1.00	1215		X
ICB	1.00	1216		X
ZZZZZZ	1.00	1217		
ZZZZZZ	1.00	1219		
ZZZZZZ	1.00	1220		
ZZZZZZ	1.00	1221		
ZZZZZZ	1.00	1223		
ZZZZZZ	1.00	1224		
ZZZZZZ	1.00	1226		
ZZZZZZ	1.00	1227		
CCV	1.00	1228		X
CCB	1.00	1230		X
ZZZZZZ	1.00	1231		
PBW	1.00	1232		X
LCSW	1.00	1233		X
MW-6	1.00	1235		X
MW-34	1.00	1236		X
MW-8	1.00	1237		X
MW-35	1.00	1239		X
13MW11	1.00	1240		X
CCV	1.00	1241		X
CCB	1.00	1243		X
13MW33	1.00	1244		X
EMW36	1.00	1245		X
6MW29	1.00	1247		X
3MW27	1.00	1248		X

FORM XIV - IN SW846

000874

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Instrument ID Number: COMM_FIMS Method: CV

Start Date: 08/27/02 End Date: 08/27/02

EPA Sample No.	D/F	Time	%R	Analytes: AL	AS	AB	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	AL	TL	V	ZN	CN
12MW17	1.00	1249																X								
MW14	1.00	1251																X								
MW37	1.00	1252																X								
MW10	1.00	1253																X								
CCV	1.00	1255																X								
CCB	1.00	1256																X								
MW16	1.00	1257																X								
12MW20	1.00	1259																X								
12MW25	1.00	1300																X								
12MW25D	1.00	1301																X								
12MW25S	1.00	1303																X								
ZZZZZZ	1.00	1304																								
ZZZZZZ	1.00	1305																								
ZZZZZZ	1.00	1307																								
ZZZZZZ	1.00	1308																								
CCV	1.00	1309																X								
CCB	1.00	1311																X								

FORM XIV - IN SW846

000875

INSTRUMENT RAW DATA

1. ICP

2. Mercury

000876

Method: 6010 A082702B Page 1 Date: 8/27/2002 4:06:41 PM

Analysis Begun

Start Time: 8/27/2002 4:01:04 PM
Logged In Analyst: optima2
Spectrometer Model: Optima 3100 XL

Plasma On Time: 8/27/2002 12:26:20 PM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\pe\administrator\Sample Information\Ev.sif
Results Data Set: A082702
Results Library: d:\pe\administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: S0
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 8/27/2002 4:01:04 PM
Sample Prep Volume:
Data Type: Original

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Ag 328.068	204.9	92.90	45.34%	[0.00]	mg/L
Al 308.215	9518.4	142.09	1.49%	[0.00]	mg/L
As 188.979	-16.0	2.02	12.66%	[0.00]	mg/L
Ba 233.527	-1189.8	1.46	0.12%	[0.00]	mg/L
Be 313.107	-6106.1	18.39	0.30%	[0.00]	mg/L
Co 228.616	-368.6	3.78	1.02%	[0.00]	mg/L
Cr 267.716	-535.2	1.35	0.25%	[0.00]	mg/L
Cu 324.752	3077.4	90.06	2.93%	[0.00]	mg/L
Fe 273.955	-2034.2	19.11	0.94%	[0.00]	mg/L
Mg 279.077	-7224.0	55.31	0.77%	[0.00]	mg/L
Mn 257.610	-4305.6	24.93	0.58%	[0.00]	mg/L
Ni 231.604	-0.4	3.83	>999.9%	[0.00]	mg/L
Pb 220.353	40.7	9.58	23.57%	[0.00]	mg/L
Sb 206.836	-51.4	2.56	4.99%	[0.00]	mg/L
Se 196.026	63.1	0.84	1.33%	[0.00]	mg/L
Tl 190.801	16.8	3.69	21.99%	[0.00]	mg/L
V 292.402	1022.9	22.24	2.17%	[0.00]	mg/L
Zn 206.200	-225.9	22.98	10.17%	[0.00]	mg/L
Na 330.237	2879.4	73.96	2.57%	[0.00]	mg/L
Cd 226.502	-414.6	2.07	0.50%	[0.00]	mg/L
Ti 334.940	1933.3	6.87	0.36%	[0.00]	mg/L
Ca 227.546	-41.2	2.67	6.49%	[0.00]	mg/L

Sequence No.: 2
Sample ID: S1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 8/27/2002 4:05:09 PM
Sample Prep Volume:
Data Type: Original

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Ag 328.068	978567.9	3080.92	0.31%	[2.5]	mg/L
Al 308.215	1221715.0	5962.64	0.49%	[20]	mg/L
As 188.979	3745.0	20.12	0.54%	[1]	mg/L
Ba 233.527	2957085.4	11910.28	0.40%	[20]	mg/L
Be 313.107	5520497.1	30994.43	0.56%	[0.5]	mg/L
Co 228.616	354563.0	502.78	0.14%	[5]	mg/L
Cr 267.716	980760.9	2503.66	0.25%	[2]	mg/L
Cu 324.752	1445370.0	5848.51	0.40%	[2.5]	mg/L
Fe 273.955	693193.4	2894.99	0.42%	[10]	mg/L
Mg 279.077	3301059.8	11137.81	0.34%	[50]	mg/L
Mn 257.610	2787875.4	5924.10	0.21%	[5]	mg/L
Ni 231.604	589173.9	2019.20	0.34%	[5]	mg/L
Pb 220.353	35782.6	4.32	0.01%	[1]	mg/L
Sb 206.836	5862.5	96.81	1.62%	[1]	mg/L

000877

Method: 6010 Page 2 Date: 8/27/2002 4:13:13 PM

Se 196.026	3882.1	8.27	0.21%	[1] mg/L
Tl 190.801	4564.9	62.24	1.36%	[1] mg/L
V 292.402	2387727.9	7448.36	0.31%	[5] mg/L
Zn 206.200	992516.3	2602.74	0.26%	[5] mg/L
Na 330.237	132391.6	264.10	0.20%	[50] mg/L
Cd 226.502	283543.5	653.85	0.23%	[0.5] mg/L
Ti 334.940	1569329.2	7041.41	0.45%	[1] mg/L
Ca 227.546	45634.8	96.51	0.21%	[50] mg/L

Sequence No.: 3
Sample ID: S2
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 8/27/2002 4:07:49 PM
Sample Prep Volume:
Data Type: Original

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Ag 328.068	488432.8	51.25	0.01%	[1.25]	mg/L
Al 308.215	603692.8	425.23	0.07%	[10]	mg/L
As 188.979	1880.2	26.52	1.41%	[0.5]	mg/L
Ba 233.527	1527404.7	3220.44	0.21%	[10]	mg/L
Be 313.107	2764107.3	5853.53	0.21%	[0.25]	mg/L
Co 228.616	180661.0	54.68	0.03%	[2.5]	mg/L
Cr 267.716	494351.4	555.95	0.11%	[1]	mg/L
Cu 324.752	721289.9	1366.09	0.19%	[1.25]	mg/L
Fe 273.955	351086.0	745.51	0.21%	[5]	mg/L
Mg 279.077	1664900.8	4020.41	0.24%	[25]	mg/L
Mn 257.610	1421337.3	417.16	0.03%	[2.5]	mg/L
Ni 231.604	301287.8	1446.39	0.48%	[2.5]	mg/L
Pb 220.353	18014.9	68.58	0.38%	[0.5]	mg/L
Sb 206.836	2911.4	9.75	0.33%	[0.5]	mg/L
Se 196.026	1940.6	61.53	3.17%	[0.5]	mg/L
Tl 190.801	2294.4	49.41	2.15%	[0.5]	mg/L
V 292.402	1196818.4	2880.09	0.24%	[2.5]	mg/L
Zn 206.200	508320.2	1269.19	0.25%	[2.5]	mg/L
Na 330.237	63853.6	187.36	0.29%	[25]	mg/L
Cd 226.502	144108.5	205.57	0.14%	[0.25]	mg/L
Ti 334.940	786990.7	2484.72	0.32%	[0.5]	mg/L
Ca 227.546	22382.6	74.51	0.33%	[25]	mg/L

Sequence No.: 4
Sample ID: S3
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 8/27/2002 4:10:21 PM
Sample Prep Volume:
Data Type: Original

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Ag 328.068	9967.1	73.14	0.73%	[0.025]	mg/L
Al 308.215	11968.5	270.06	2.26%	[0.2]	mg/L
As 188.979	37.1	4.62	12.45%	[0.01]	mg/L
Ba 233.527	33257.0	409.55	1.23%	[0.2]	mg/L
Be 313.107	55977.9	629.26	1.12%	[0.005]	mg/L
Co 228.616	3864.8	24.19	0.63%	[0.05]	mg/L
Cr 267.716	10291.3	97.27	0.95%	[0.02]	mg/L
Cu 324.752	15703.7	69.49	0.44%	[0.025]	mg/L
Fe 273.955	7330.8	52.71	0.72%	[0.1]	mg/L
Mg 279.077	35050.5	366.75	1.05%	[0.5]	mg/L
Mn 257.610	30482.5	434.85	1.43%	[0.05]	mg/L
Ni 231.604	6549.7	48.10	0.73%	[0.05]	mg/L
Pb 220.353	386.3	4.03	1.04%	[0.01]	mg/L
Sb 206.836	62.4	3.89	6.22%	[0.01]	mg/L
Se 196.026	52.0	6.00	11.54%	[0.01]	mg/L
Tl 190.801	46.0	2.94	6.39%	[0.01]	mg/L
V 292.402	24792.1	423.30	1.71%	[0.05]	mg/L

000878

Zn 206.200	11077.9	81.37	0.73%	[0.05]	mg/L
Na 330.237	1564.5	136.77	8.74%	[0.5]	mg/L
Cd 226.502	3031.5	19.36	0.64%	[0.005]	mg/L
Ti 334.940	16156.4	239.97	1.49%	[0.01]	mg/L
Ca 227.546	463.8	7.66	1.65%	[0.5]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	391300	0.00000	1.000000	
Al 308.215	3	Lin Thru 0	0.0	60940	0.00000	0.999989	
As 188.979	3	Lin Thru 0	0.0	3748	0.00000	0.999999	
Ba 233.527	3	Lin Thru 0	0.0	148800	0.00000	0.999913	
Be 313.107	3	Lin Thru 0	0.0	11040000	0.00000	1.000000	
Co 228.616	3	Lin Thru 0	0.0	71180	0.00000	0.999971	
Cr 267.716	3	Lin Thru 0	0.0	491200	0.00000	0.999995	
Cu 324.752	3	Lin Thru 0	0.0	577900	0.00000	0.999999	
Fe 273.955	3	Lin Thru 0	0.0	69500	0.00000	0.999987	
Mg 279.077	3	Lin Thru 0	0.0	66140	0.00000	0.999994	
Mn 257.610	3	Lin Thru 0	0.0	559800	0.00000	0.999969	
Ni 231.604	3	Lin Thru 0	0.0	118600	0.00000	0.999959	
Pb 220.353	3	Lin Thru 0	0.0	35830	0.00000	0.999996	
Sb 206.836	3	Lin Thru 0	0.0	5855	0.00000	0.999996	
Se 196.026	3	Lin Thru 0	0.0	3882	0.00000	0.999995	
Tl 190.801	3	Lin Thru 0	0.0	4570	0.00000	0.999998	
V 292.402	3	Lin Thru 0	0.0	477800	0.00000	0.999999	
Zn 206.200	3	Lin Thru 0	0.0	199500	0.00000	0.999953	
Na 330.237	3	Lin Thru 0	0.0	2629	0.00000	0.999897	
Cd 226.502	3	Lin Thru 0	0.0	569000	0.00000	0.999978	
Ti 334.940	3	Lin Thru 0	0.0	1570000	0.00000	0.999999	
Ca 227.546	3	Lin Thru 0	0.0	909.2	0.00000	0.999971	

Sequence No.: 5
Sample ID: CHECK
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 8/27/2002 4:14:20 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CHECK

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	1003204.1	2.5673	mg/L	0.00080	2.5673	mg/L	0.00080	0.03%
Al 308.215	1213849.6	19.951	mg/L	0.0280	19.951	mg/L	0.0280	0.14%
As 188.979	3669.6	0.9985	mg/L	0.00024	0.9985	mg/L	0.00024	0.02%
Ba 233.527	2944201.6	19.793	mg/L	0.1269	19.793	mg/L	0.1269	0.64%
Be 313.107	5453288.6	0.4948	mg/L	0.00314	0.4948	mg/L	0.00314	0.64%
Co 228.616	352992.0	4.9567	mg/L	0.00889	4.9567	mg/L	0.00889	0.18%
Cr 267.716	973726.5	1.9827	mg/L	0.00033	1.9827	mg/L	0.00033	0.02%
Cu 324.752	1437137.5	2.4798	mg/L	0.00047	2.4798	mg/L	0.00047	0.02%
Fe 273.955	690065.0	9.9291	mg/L	0.01296	9.9291	mg/L	0.01296	0.13%
Mg 279.077	3283239.1	49.669	mg/L	0.0130	49.669	mg/L	0.0130	0.03%
Mn 257.610	2773391.9	4.9541	mg/L	0.03689	4.9541	mg/L	0.03689	0.74%
Ni 231.604	585078.7	4.9418	mg/L	0.00871	4.9418	mg/L	0.00871	0.18%
Pb 220.353	35149.4	0.9842	mg/L	0.00212	0.9842	mg/L	0.00212	0.22%
Sb 206.836	5746.4	0.9907	mg/L	0.00712	0.9907	mg/L	0.00712	0.72%
Se 196.026	3786.7	0.9728	mg/L	0.00138	0.9728	mg/L	0.00138	0.14%
Tl 190.801	4503.7	0.9954	mg/L	0.00654	0.9954	mg/L	0.00654	0.66%
V 292.402	2388493.4	5.0029	mg/L	0.00069	5.0029	mg/L	0.00069	0.01%
Zn 206.200	986647.9	4.9438	mg/L	0.00161	4.9438	mg/L	0.00161	0.03%
Na 330.237	132212.0	50.458	mg/L	0.0784	50.458	mg/L	0.0784	0.16%
Cd 226.502	282571.0	0.4974	mg/L	0.00019	0.4974	mg/L	0.00019	0.04%
Ti 334.940	1558507.9	0.9925	mg/L	0.00167	0.9925	mg/L	0.00167	0.17%
Ca 227.546	44759.8	48.878	mg/L	0.0406	48.878	mg/L	0.0406	0.08%

Sequence No.: 6
Sample ID: LRA #1
Analyst:

Autosampler Location: 11
Date Collected: 8/27/2002 4:16:58 PM

09/11/02

Sample Wt:
Dilution:

Sample Prep Volume:
Data Type: Original

Mean Data: LRA #1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-5882.3	-0.0047	mg/L	0.00039	-0.0047	mg/L	0.00039	8.35%
Al 308.215	37887.2	0.6217	mg/L	0.00751	0.6217	mg/L	0.00751	1.21%
As 188.979	75405.6	20.319	mg/L	0.0562	20.319	mg/L	0.0562	0.28%
Ba 233.527	-2981.5	0.0273	mg/L	0.00036	0.0273	mg/L	0.00036	1.33%
Be 313.107	Saturated3							
Saturated in preshot (code 3)								
Co 228.616	1548703.9	21.755	mg/L	0.2520	21.755	mg/L	0.2520	1.16%
Cr 267.716	10262005.2	20.893	mg/L	0.0914	20.893	mg/L	0.0914	0.44%
Cu 324.752	12179018.1	21.042	mg/L	0.1321	21.042	mg/L	0.1321	0.63%
Fe 273.955	1501659.8	21.607	mg/L	0.2337	21.607	mg/L	0.2337	1.08%
Mg 279.077	1401263.8	21.291	mg/L	0.2224	21.291	mg/L	0.2224	1.04%
Mn 257.610	11320875.1	20.226	mg/L	0.1123	20.226	mg/L	0.1123	0.56%
Ni 231.604	2551272.1	21.549	mg/L	0.1693	21.549	mg/L	0.1693	0.79%
Pb 220.353	767407.1	21.422	mg/L	0.2007	21.422	mg/L	0.2007	0.94%
Sb 206.836	120761.4	20.643	mg/L	0.0836	20.643	mg/L	0.0836	0.40%
Se 196.026	78396.1	20.177	mg/L	0.2182	20.177	mg/L	0.2182	1.08%
Tl 190.801	97309.2	21.324	mg/L	0.1527	21.324	mg/L	0.1527	0.72%
V 292.402	9972896.6	20.918	mg/L	0.1003	20.918	mg/L	0.1003	0.48%
Zn 206.200	4081992.4	20.496	mg/L	0.2159	20.496	mg/L	0.2159	1.05%
Na 330.237	57244.4	21.505	mg/L	0.2328	21.505	mg/L	0.2328	1.08%
Cd 226.502	11198962.9	19.687	mg/L	0.1291	19.687	mg/L	0.1291	0.66%
Ti 334.940	Saturated2							
Saturated in preshot (code 2)								
Ca 227.546	28022.9	29.244	mg/L	0.3175	29.244	mg/L	0.3175	1.09%

Sequence No.: 7
Sample ID: LRA #3
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 8/27/2002 4:19:51 PM
Sample Prep Volume:
Data Type: Original

Mean Data: LRA #3

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-177.1	-0.0004	mg/L	0.00056	-0.0004	mg/L	0.00056	124.02%
Al 308.215	30918958.6	507.35	mg/L	1.462	507.35	mg/L	1.462	0.29%
As 188.979	4.5	-0.0074	mg/L	0.00047	-0.0074	mg/L	0.00047	6.39%
Ba 233.527	118.4	0.0008	mg/L	0.00033	0.0008	mg/L	0.00033	41.24%
Be 313.107	21298.9	0.0019	mg/L	0.00020	0.0019	mg/L	0.00020	10.11%
Co 228.616	-16.7	0.0012	mg/L	0.00048	0.0012	mg/L	0.00048	39.90%
Cr 267.716	1979.9	0.0040	mg/L	0.00002	0.0040	mg/L	0.00002	0.56%
Cu 324.752	51869.8	0.0893	mg/L	0.00187	0.0893	mg/L	0.00187	2.10%
Fe 273.955	732.8	0.0105	mg/L	0.00005	0.0105	mg/L	0.00005	0.46%
Mg 279.077	34870722.1	527.25	mg/L	1.467	527.25	mg/L	1.467	0.28%
Mn 257.610	1591.3	-0.0019	mg/L	0.00111	-0.0019	mg/L	0.00111	5.68%
Ni 231.604	356.0	0.0030	mg/L	0.00007	0.0030	mg/L	0.00007	2.40%
Pb 220.353	-1318.6	0.0021	mg/L	0.00170	0.0021	mg/L	0.00170	82.38%
Sb 206.836	15.5	0.0232	mg/L	0.00122	0.0232	mg/L	0.00122	5.25%
Se 196.026	31.9	0.0095	mg/L	0.00818	0.0095	mg/L	0.00818	85.79%
Tl 190.801	51.5	0.0033	mg/L	0.00576	0.0033	mg/L	0.00576	173.85%
V 292.402	488.0	0.0010	mg/L	0.00050	0.0010	mg/L	0.00050	48.66%
Zn 206.200	14628.9	0.0315	mg/L	0.00190	0.0315	mg/L	0.00190	6.04%
Na 330.237	477.9	0.1826	mg/L	0.20510	0.1826	mg/L	0.20510	112.31%
Cd 226.502	580.5	0.0010	mg/L	0.00014	0.0010	mg/L	0.00014	13.87%
Ti 334.940	3275.5	0.0021	mg/L	0.00023	0.0021	mg/L	0.00025	11.85%
Ca 227.546	-288.5	-0.0869	mg/L	0.13600	-0.0869	mg/L	0.13600	156.57%

Sequence No.: 8
Sample ID: LRA #4
Analyst:
Sample Wt:

Autosampler Location: 14
Date Collected: 8/27/2002 4:22:25 PM
Sample Prep Volume: 09/11/02

Dilution:

Data Type: Original

Mean Data: LRA #4

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-23556.9	-0.0094	mg/L	0.00000	-0.0094	mg/L	0.00000	0.04%
Al 308.215	724.4	0.0119	mg/L	0.01493	0.0119	mg/L	0.01493	125.60%
As 188.979	-36.6	0.0190	mg/L	0.00058	0.0193	mg/L	0.00058	3.08%
Ba 233.527	1637.2	-0.0021	mg/L	0.00046	-0.0021	mg/L	0.00046	22.23%
Be 313.107	5877.7	0.0005	mg/L	0.00005	0.0005	mg/L	0.00005	10.15%
Co 228.616	624.2	0.0049	mg/L	0.00002	0.0049	mg/L	0.00002	0.43%
Cr 267.716	2828.0	0.0094	mg/L	0.00002	0.0094	mg/L	0.00002	0.21%
Cu 324.752	22331.2	0.0798	mg/L	0.00342	0.0798	mg/L	0.00342	4.28%
Fe 273.955	20390603.1	293.39	mg/L	0.315	293.39	mg/L	0.315	0.11%
Mg 279.077	-5081.1	-0.0770	mg/L	0.01625	-0.0770	mg/L	0.01625	21.11%
Mn 257.610	-13704.3	-0.0180	mg/L	0.00019	-0.0180	mg/L	0.00019	1.03%
Ni 231.604	1171.3	0.0099	mg/L	0.00022	0.0099	mg/L	0.00022	2.25%
Pb 220.353	69.9	-0.0024	mg/L	0.00019	-0.0024	mg/L	0.00019	7.90%
Sb 206.836	-39.0	0.0161	mg/L	0.00367	0.0161	mg/L	0.00367	22.79%
Se 196.026	-469.2	-0.0382	mg/L	0.00037	-0.0382	mg/L	0.00037	0.96%
Tl 190.801	-15.7	0.0138	mg/L	0.00085	0.0138	mg/L	0.00085	6.17%
V 292.402	459.6	-0.0015	mg/L	0.00000	-0.0015	mg/L	0.00000	0.24%
Zn 206.200	2793.5	0.0088	mg/L	0.00262	0.0088	mg/L	0.00262	29.80%
Na 330.237	-1014.7	0.1220	mg/L	0.01291	0.1220	mg/L	0.01291	10.59%
Cd 226.502	7421.8	0.0028	mg/L	0.00011	0.0028	mg/L	0.00011	3.96%
Ti 334.940	453.8	0.0003	mg/L	0.00004	0.0003	mg/L	0.00004	13.52%
Ca 227.546	1343.8	-1.0663	mg/L	0.04416	-1.0663	mg/L	0.04416	4.14%

Sequence No.: 9
Sample ID: LRA #5
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 8/27/2002 4:26:38 PM
Sample Prep Volume:
Data Type: Original

Mean Data: LRA #5

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	2463.9	-0.0043	mg/L	0.00001	-0.0043	mg/L	0.00001	0.26%
Al 308.215	78.8	0.0013	mg/L	0.00031	0.0013	mg/L	0.00031	23.85%
As 188.979	-5.6	-0.0015	mg/L	0.00066	-0.0015	mg/L	0.00066	44.91%
Ba 233.527	197.6	-0.0001	mg/L	0.00006	-0.0001	mg/L	0.00006	56.15%
Be 313.107	3779.6	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	3.16%
Co 228.616	31.4	0.0004	mg/L	0.00002	0.0004	mg/L	0.00002	3.44%
Cr 267.716	484.7	0.0010	mg/L	0.00005	0.0010	mg/L	0.00005	4.71%
Cu 324.752	14831.3	0.0243	mg/L	0.00192	0.0243	mg/L	0.00192	7.90%
Fe 273.955	1235.2	0.0178	mg/L	0.00634	0.0178	mg/L	0.00634	35.69%
Mg 279.077	97.2	0.0015	mg/L	0.00002	0.0015	mg/L	0.00002	1.44%
Mn 257.610	295.3	0.0005	mg/L	0.00001	0.0005	mg/L	0.00001	1.93%
Ni 231.604	126.1	0.0011	mg/L	0.00007	0.0011	mg/L	0.00007	6.10%
Pb 220.353	-185.3	-0.0012	mg/L	0.00025	-0.0012	mg/L	0.00025	21.48%
Sb 206.836	1.2	0.0018	mg/L	0.00103	0.0018	mg/L	0.00103	58.63%
Se 196.026	18.8	0.0048	mg/L	0.00002	0.0048	mg/L	0.00002	0.33%
Tl 190.801	0.8	-0.0015	mg/L	0.00176	-0.0015	mg/L	0.00176	113.52%
V 292.402	27.6	0.0001	mg/L	0.00010	0.0001	mg/L	0.00010	165.10%
Zn 206.200	1673.4	0.0064	mg/L	0.00060	0.0064	mg/L	0.00060	9.37%
Na 330.237	2486.1	0.4193	mg/L	0.14675	0.4193	mg/L	0.14675	35.00%
Cd 226.502	44.9	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	35.22%
Ti 334.940	-6399.9	-0.0006	mg/L	0.00002	-0.0006	mg/L	0.00002	2.64%
Ca 227.546	445194.1	489.64	mg/L	5.281	489.64	mg/L	5.281	1.08%

Sequence No.: 10
Sample ID: ICV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 8/27/2002 4:30:40 PM
Sample Prep Volume:
Data Type: Original

09/11/02

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	500166.5	1.2801	mg/L	0.00446	1.2801	mg/L	0.00446	0.35%
Al 308.215	628035.3	10.305	mg/L	0.0190	10.305	mg/L	0.0190	0.18%
As 188.979	1921.3	0.5226	mg/L	0.00817	0.5226	mg/L	0.00817	1.56%
Ba 233.527	1617633.2	10.875	mg/L	0.0122	10.875	mg/L	0.0122	0.11%
Be 313.107	2871087.6	0.2600	mg/L	0.00360	0.2600	mg/L	0.00360	1.39%
Co 228.616	189069.1	2.6556	mg/L	0.01062	2.6556	mg/L	0.01062	0.40%
Cr 267.716	509031.0	1.0365	mg/L	0.00224	1.0365	mg/L	0.00224	0.22%
Cu 324.752	784758.3	1.3547	mg/L	0.00398	1.3547	mg/L	0.00398	0.29%
Fe 273.955	364435.4	5.2437	mg/L	0.01332	5.2437	mg/L	0.01332	0.25%
Mg 279.077	1730657.1	26.181	mg/L	0.0264	26.181	mg/L	0.0264	0.10%
Mn 257.610	1467167.4	2.6208	mg/L	0.00840	2.6208	mg/L	0.00840	0.32%
Ni 231.604	312634.6	2.6408	mg/L	0.00231	2.6408	mg/L	0.00231	0.09%
Pb 220.353	18262.6	0.5111	mg/L	0.00720	0.5111	mg/L	0.00720	1.41%
Sb 206.836	3037.2	0.5232	mg/L	0.00689	0.5232	mg/L	0.00689	1.32%
Se 196.026	1987.1	0.5106	mg/L	0.01558	0.5106	mg/L	0.01558	3.05%
Tl 190.801	2326.9	0.5137	mg/L	0.01275	0.5137	mg/L	0.01275	2.48%
V 292.402	1238699.4	2.5949	mg/L	0.00331	2.5949	mg/L	0.00331	0.13%
Zn 206.200	523526.4	2.6338	mg/L	0.00362	2.6338	mg/L	0.00362	0.14%
Na 330.237	66806.8	25.365	mg/L	0.0266	25.365	mg/L	0.0266	0.10%
Cd 226.502	145297.1	0.2558	mg/L	0.00030	0.2558	mg/L	0.00030	0.12%
Ti 334.940	1447.6	0.0009	mg/L	0.00007	0.0009	mg/L	0.00007	7.25%
Ca 227.546	23373.5	25.522	mg/L	0.2482	25.522	mg/L	0.2482	0.97%

Sequence No.: 11
Sample ID: ICB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 8/27/2002 4:33:15 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-54.6	-0.0001	mg/L	0.00004	-0.0001	mg/L	0.00004	32.07%
Al 308.215	-153.4	-0.0025	mg/L	0.00238	-0.0025	mg/L	0.00238	94.42%
As 188.979	1.7	0.0005	mg/L	0.00053	0.0005	mg/L	0.00053	116.64%
Ba 233.527	90.3	0.0006	mg/L	0.00026	0.0006	mg/L	0.00026	42.89%
Be 313.107	3373.6	0.0003	mg/L	0.00003	0.0003	mg/L	0.00003	10.07%
Co 228.616	11.1	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	2.34%
Cr 267.716	67.1	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	14.29%
Cu 324.752	7884.1	0.0136	mg/L	0.00105	0.0136	mg/L	0.00105	7.73%
Fe 273.955	82.5	0.0012	mg/L	0.00053	0.0012	mg/L	0.00053	44.77%
Mg 279.077	-89.3	-0.0014	mg/L	0.00429	-0.0014	mg/L	0.00429	317.35%
Mn 257.610	-90.8	-0.0002	mg/L	0.00006	-0.0002	mg/L	0.00006	37.99%
Ni 231.604	6.1	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	76.16%
Pb 220.353	0.0	0.0000	mg/L	0.00036	0.0000	mg/L	0.00036	>999.9%
Sb 206.836	0.8	0.0001	mg/L	0.00030	0.0001	mg/L	0.00030	226.47%
Se 196.026	7.9	0.0020	mg/L	0.00097	0.0020	mg/L	0.00097	47.69%
Tl 190.801	2.8	0.0006	mg/L	0.00067	0.0006	mg/L	0.00067	108.35%
V 292.402	43.1	0.0001	mg/L	0.00036	0.0001	mg/L	0.00036	396.07%
Zn 206.200	731.8	0.0037	mg/L	0.00050	0.0037	mg/L	0.00050	13.73%
Na 330.237	345.9	0.1316	mg/L	0.01755	0.1316	mg/L	0.01755	13.33%
Cd 226.502	13.3	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	67.83%
Ti 334.940	105.9	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	27.43%
Ca 227.546	-3.8	-0.0044	mg/L	0.05416	-0.0044	mg/L	0.05416	>999.9%

Sequence No.: 12
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 8/27/2002 4:37:18 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Ag 328.068	-12455.2	-0.0001 mg/L	0.00031	-0.0001 mg/L	0.00031	324.13%
Al 308.215	31210860.8	512.14 mg/L	4.687	512.14 mg/L	4.687	0.92%
As 188.979	-1.3	0.0087 mg/L	0.00706	0.0087 mg/L	0.00706	80.98%
Ba 233.527	1604.8	0.0012 mg/L	0.00035	0.0012 mg/L	0.00035	30.48%
Be 313.107	1873.1	0.0002 mg/L	0.00000	0.0002 mg/L	0.00000	0.76%
Co 228.616	107.1	0.0005 mg/L	0.00004	0.0005 mg/L	0.00004	153.33%
Cr 267.716	-125.7	0.0020 mg/L	0.00007	0.0020 mg/L	0.00007	3.57%
Cu 324.752	941.7	0.0252 mg/L	0.00027	0.0252 mg/L	0.00027	1.07%
Fe 273.955	12615649.7	181.32 mg/L	1.278	181.32 mg/L	1.278	0.70%
Mg 279.077	32401904.6	489.92 mg/L	3.005	489.92 mg/L	3.005	0.61%
Mn 257.610	-7389.8	-0.0133 mg/L	0.00019	-0.0133 mg/L	0.00019	1.46%
Ni 231.604	211.6	0.0018 mg/L	0.00023	0.0018 mg/L	0.00023	12.91%
Pb 220.353	-1470.7	-0.0001 mg/L	0.00086	-0.0001 mg/L	0.00086	721.88%
Sb 206.836	-123.3	0.0156 mg/L	0.00509	0.0156 mg/L	0.00509	32.71%
Se 196.026	-219.3	-0.0042 mg/L	0.00039	-0.0042 mg/L	0.00039	9.44%
Tl 190.801	23.9	0.0006 mg/L	0.00435	0.0006 mg/L	0.00435	772.45%
V 292.402	61.8	-0.0014 mg/L	0.00062	-0.0014 mg/L	0.00062	1.53%
Zn 206.200	7722.1	-0.0057 mg/L	0.00013	-0.0057 mg/L	0.00013	2.39%
Na 330.237	1971.1	0.4999 mg/L	0.03599	0.4999 mg/L	0.03599	7.20%
Cd 226.502	4946.3	0.0023 mg/L	0.00007	0.0023 mg/L	0.00007	3.15%
Ti 334.940	-7386.4	-0.0010 mg/L	0.00001	-0.0010 mg/L	0.00001	0.72%
Ca 227.546	477880.3	524.25 mg/L	0.642	524.25 mg/L	0.642	0.12%

Sequence No.: 13
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 8/27/2002 4:39:57 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	55690.9	0.1729 mg/L	0.00176	0.1729 mg/L	0.00176	1.02%
Al 308.215	29940559.2	491.29 mg/L	2.109	491.29 mg/L	2.109	0.43%
As 188.979	309.9	0.0961 mg/L	0.00853	0.0961 mg/L	0.00853	8.87%
Ba 233.527	78057.4	0.5164 mg/L	0.00942	0.5164 mg/L	0.00942	1.82%
Be 313.107	5619451.1	0.5088 mg/L	0.00230	0.5088 mg/L	0.00230	0.45%
Co 228.616	34159.9	0.4788 mg/L	0.00527	0.4788 mg/L	0.00527	1.10%
Cr 267.716	243501.6	0.4979 mg/L	0.00828	0.4979 mg/L	0.00828	1.66%
Cu 324.752	331730.4	0.5958 mg/L	0.01090	0.5958 mg/L	0.01090	1.83%
Fe 273.955	12122096.1	174.42 mg/L	0.591	174.42 mg/L	0.591	0.34%
Mg 279.077	30897085.7	468.69 mg/L	1.681	468.69 mg/L	1.681	0.36%
Mn 257.610	276481.5	0.4939 mg/L	0.00822	0.4939 mg/L	0.00822	1.67%
Ni 231.604	109152.8	0.9221 mg/L	0.01668	0.9221 mg/L	0.01668	1.81%
Pb 220.353	14580.4	0.4465 mg/L	0.00632	0.4465 mg/L	0.00632	1.42%
Sb 206.836	3322.1	0.6030 mg/L	0.00211	0.6030 mg/L	0.00211	0.35%
Se 196.026	1623.5	0.4679 mg/L	0.00566	0.4679 mg/L	0.00566	1.21%
Tl 190.801	421.1	0.0933 mg/L	0.00438	0.0933 mg/L	0.00438	4.70%
V 292.402	240901.5	0.5038 mg/L	0.00942	0.5038 mg/L	0.00942	1.87%
Zn 206.200	192228.2	0.9220 mg/L	0.01302	0.9220 mg/L	0.01302	1.41%
Na 330.237	132205.1	50.032 mg/L	1.0253	50.032 mg/L	1.0253	2.03%
Cd 226.502	524454.9	0.9159 mg/L	0.01354	0.9159 mg/L	0.01354	1.48%
Ti 334.940	-6741.7	-0.0008 mg/L	0.00009	-0.0008 mg/L	0.00009	11.25%
Ca 227.546	464328.5	509.36 mg/L	11.070	509.36 mg/L	11.070	2.17%

Sequence No.: 14
Sample ID: A1243-11C,3169
Analyst:
Sample Wt:
Dilution:

MW-35

Autosampler Location: 70
Date Collected: 8/27/2002 4:42:41 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1243-11C,3169

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	-80.5	-0.0002 mg/L	0.00004	-0.0002 mg/L	0.00004	21.56%
Al 308.215	2086.6	0.0342 mg/L	0.01937	0.0342 mg/L	0.01937	56.58%
As 188.979	4.4	0.0012 mg/L	0.00069	0.0012 mg/L	0.00069	57.62%

Ba 233.527	1746.3	0.0117 mg/L	0.00041	0.0117 mg/L	0.00041	3.46%
Be 313.107	2807.7	0.0003 mg/L	0.00005	0.0003 mg/L	0.00005	20.22%
Co 228.616	22.9	0.0003 mg/L	0.00001	0.0003 mg/L	0.00001	3.20%
Cr 267.716	1574.3	0.0031 mg/L	0.00001	0.0031 mg/L	0.00001	0.19%
Cu 324.752	16230.0	0.0281 mg/L	0.00182	0.0281 mg/L	0.00182	6.47%
Fe 273.955	4873.7	0.0701 mg/L	0.00501	0.0701 mg/L	0.00501	7.15%
Mg 279.077	2355.0	0.0356 mg/L	0.02266	0.0356 mg/L	0.02266	63.62%
Mn 257.610	1546.3	0.0028 mg/L	0.00003	0.0028 mg/L	0.00003	1.01%
Ni 231.604	310.6	0.0026 mg/L	0.00020	0.0026 mg/L	0.00020	7.44%
Pb 220.353	16.8	0.0005 mg/L	0.00023	0.0005 mg/L	0.00023	49.53%
Sb 206.836	9.6	0.0016 mg/L	0.00053	0.0016 mg/L	0.00053	31.99%
Se 196.026	2.9	0.0008 mg/L	0.00283	0.0008 mg/L	0.00283	364.85%
Tl 190.801	-1.3	-0.0003 mg/L	0.00067	-0.0003 mg/L	0.00067	258.26%
V 292.402	86.4	0.0002 mg/L	0.00014	0.0002 mg/L	0.00014	73.25%
Zn 206.200	2246.3	0.0113 mg/L	0.00141	0.0113 mg/L	0.00141	12.48%
Na 330.237	527.2	0.2009 mg/L	0.04394	0.2009 mg/L	0.04394	21.87%
Cd 226.502	248.0	0.0004 mg/L	0.00002	0.0004 mg/L	0.00002	5.59%
Ti 334.940	2104.0	0.0013 mg/L	0.00010	0.0013 mg/L	0.00010	7.39%
Ca 227.546	61.7	0.0668 mg/L	0.01295	0.0668 mg/L	0.01295	19.39%

Sequence No.: 15
Sample ID: MB-3139,3169
Analyst:
Sample Wt:
Dilution:

PBW

Autosampler Location: 17
Date Collected: 8/27/2002 4:46:46 PM

Sample Prep Volume:
Data Type: Original

Mean Data: MB-3139,3169

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	-92.2	-0.0002 mg/L	0.00019	-0.0002 mg/L	0.00019	79.23%
Al 308.215	-59.9	-0.0010 mg/L	0.00157	-0.0010 mg/L	0.00157	159.71%
As 188.979	4.4	0.0012 mg/L	0.00007	0.0012 mg/L	0.00007	6.04%
Ba 233.527	1606.1	0.0108 mg/L	0.00025	0.0108 mg/L	0.00025	2.28%
Be 313.107	2431.5	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	5.29%
Co 228.616	22.1	0.0003 mg/L	0.00001	0.0003 mg/L	0.00001	2.88%
Cr 267.716	96.5	0.0002 mg/L	0.00013	0.0002 mg/L	0.00013	67.32%
Cu 324.752	10532.6	0.0182 mg/L	0.00102	0.0182 mg/L	0.00102	5.62%
Fe 273.955	648.7	0.0093 mg/L	0.00030	0.0093 mg/L	0.00030	3.25%
Mg 279.077	155.8	0.0024 mg/L	0.00039	0.0024 mg/L	0.00039	16.47%
Mn 257.610	257.3	0.0005 mg/L	0.00001	0.0005 mg/L	0.00001	2.26%
Ni 231.604	30.0	0.0003 mg/L	0.00004	0.0003 mg/L	0.00004	17.69%
Pb 220.353	-4.1	-0.0001 mg/L	0.00019	-0.0001 mg/L	0.00019	162.08%
Sb 206.836	6.9	0.0012 mg/L	0.00013	0.0012 mg/L	0.00013	11.32%
Se 196.026	4.6	0.0012 mg/L	0.00023	0.0012 mg/L	0.00023	19.89%
Tl 190.801	-4.5	-0.0010 mg/L	0.00040	-0.0010 mg/L	0.00040	40.93%
V 292.402	113.0	0.0002 mg/L	0.00030	0.0002 mg/L	0.00030	124.92%
Zn 206.200	1197.7	0.0060 mg/L	0.00066	0.0060 mg/L	0.00066	10.97%
Na 330.237	261.3	0.0994 mg/L	0.07271	0.0994 mg/L	0.07271	73.12%
Cd 226.502	27.9	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	11.97%
Ti 334.940	308.2	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	16.35%
Ca 227.546	-1.6	-0.0021 mg/L	0.00911	-0.0021 mg/L	0.00911	427.51%

Sequence No.: 16
Sample ID: LCS-3169,3169
Analyst:
Sample Wt:
Dilution:

LCSW

Autosampler Location: 18
Date Collected: 8/27/2002 4:50:49 PM

Sample Prep Volume:
Data Type: Original

Mean Data: LCS-3169,3169

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	466919.6	1.1950 mg/L	0.00496	1.1950 mg/L	0.00496	0.42%
Al 308.215	598035.8	9.8131 mg/L	0.05461	9.8131 mg/L	0.05461	0.56%
As 188.979	1745.1	0.4761 mg/L	0.00698	0.4761 mg/L	0.00698	1.47%
Ba 233.527	1509855.4	10.150 mg/L	0.0454	10.150 mg/L	0.0454	0.45%
Be 313.107	2733100.7	0.2475 mg/L	0.00079	0.2475 mg/L	0.00079	0.32%
Co 228.616	177196.0	2.4889 mg/L	0.00747	2.4889 mg/L	0.00747	0.30%

Cr 267.716	483788.1	0.9851 mg/L	0.00380	0.9851 mg/L	0.00380	0.39%
Cu 324.752	710917.2	1.2270 mg/L	0.00583	1.2270 mg/L	0.00583	0.48%
Fe 273.955	341802.4	4.9181 mg/L	0.01941	4.9181 mg/L	0.01941	0.39%
Mg 279.077	1621432.3	24.529 mg/L	0.1012	24.529 mg/L	0.1012	0.41%
Mn 257.610	1396493.8	2.4946 mg/L	0.00908	2.4946 mg/L	0.00908	0.36%
Ni 231.604	292894.9	2.4740 mg/L	0.01173	2.4740 mg/L	0.01173	0.47%
Pb 220.353	16703.1	0.4675 mg/L	0.00270	0.4675 mg/L	0.00270	0.58%
Sb 206.836	2721.8	0.4690 mg/L	0.01163	0.4690 mg/L	0.01163	2.48%
Se 196.026	1787.9	0.4593 mg/L	0.00938	0.4593 mg/L	0.00938	2.04%
Tl 190.801	2117.1	0.4677 mg/L	0.00658	0.4677 mg/L	0.00658	1.41%
V 292.402	1165138.0	2.4408 mg/L	0.01102	2.4408 mg/L	0.01102	0.45%
Zn 206.200	497684.4	2.4942 mg/L	0.02866	2.4942 mg/L	0.00866	0.35%
Na 330.237	62967.8	23.907 mg/L	0.1725	23.907 mg/L	0.1725	0.72%
Cd 226.502	132731.9	0.2337 mg/L	0.00076	0.2337 mg/L	0.00074	0.32%
Ti 334.940	641.8	0.0004 mg/L	0.00002	0.0004 mg/L	0.00002	3.76%
Ca 227.546	22201.3	24.245 mg/L	0.3280	24.245 mg/L	0.3280	1.35%

Sequence No.: 17
Sample ID: A1243-01B,3169
Analyst:
Sample Wt:
Dilution:

MW-6

Autosampler Location: 19
Date Collected: 8/27/2002 4:53:26 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1243-01B,3169

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	21.5	-0.0004 mg/L	0.00009	-0.0004 mg/L	0.00009	21.00%
Al 308.215	155461.8	2.5510 mg/L	0.01290	2.5510 mg/L	0.01290	0.51%
As 188.979	1.9	0.0006 mg/L	0.00031	0.0006 mg/L	0.00031	50.27%
Ba 233.527	11062.2	0.0741 mg/L	0.00015	0.0741 mg/L	0.00015	0.20%
Be 313.107	2128.4	0.0003 mg/L	0.00004	0.0003 mg/L	0.00004	16.16%
Co 228.616	167.5	0.0023 mg/L	0.00008	0.0023 mg/L	0.00008	3.41%
Cr 267.716	2066.1	0.0040 mg/L	0.00013	0.0040 mg/L	0.00013	3.21%
Cu 324.752	10601.1	0.0171 mg/L	0.00127	0.0171 mg/L	0.00127	7.43%
Fe 273.955	110386.3	1.5883 mg/L	0.00510	1.5883 mg/L	0.00510	0.32%
Mg 279.077	1789526.0	27.064 mg/L	0.0463	27.064 mg/L	0.0463	0.17%
Mn 257.610	606854.7	1.0837 mg/L	0.00195	1.0837 mg/L	0.00195	0.18%
Ni 231.604	621.7	0.0051 mg/L	0.00011	0.0051 mg/L	0.00011	2.15%
Pb 220.353	42.2	0.0015 mg/L	0.00013	0.0015 mg/L	0.00013	9.08%
Sb 206.836	-1.1	0.0000 mg/L	0.00008	0.0000 mg/L	0.00008	874.78%
Se 196.026	1.9	0.0001 mg/L	0.00064	0.0001 mg/L	0.00064	433.00%
Tl 190.801	-33.4	-0.0024 mg/L	0.00026	-0.0024 mg/L	0.00026	10.75%
V 292.402	1934.0	0.0041 mg/L	0.00022	0.0041 mg/L	0.00022	5.40%
Zn 206.200	5805.8	0.0266 mg/L	0.00043	0.0266 mg/L	0.00043	1.63%
Na 330.237	810689.2	308.32 mg/L	1.205	308.32 mg/L	1.205	0.39%
Cd 226.502	458.6	0.0008 mg/L	0.00001	0.0008 mg/L	0.00001	1.46%
Ti 334.940	93650.4	0.0599 mg/L	0.00018	0.0599 mg/L	0.00018	0.29%
Ca 227.546	36113.3	39.706 mg/L	0.1375	39.706 mg/L	0.1375	0.35%

Sequence No.: 18
Sample ID: A1243-01BDUP,3169
Analyst:
Sample Wt:
Dilution:

MW-6DUP

Autosampler Location: 20
Date Collected: 8/27/2002 4:57:32 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1243-01BDUP,3169

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	42.8	-0.0003 mg/L	0.00023	-0.0003 mg/L	0.00023	69.28%
Al 308.215	218597.6	3.5870 mg/L	0.02116	3.5870 mg/L	0.02116	0.59%
As 188.979	-0.2	0.0001 mg/L	0.00086	0.0001 mg/L	0.00086	715.50%
Ba 233.527	13663.3	0.0915 mg/L	0.00047	0.0915 mg/L	0.00047	0.52%
Be 313.107	1944.3	0.0003 mg/L	0.00001	0.0003 mg/L	0.00001	3.36%
Co 228.616	194.5	0.0026 mg/L	0.00003	0.0026 mg/L	0.00003	1.20%
Cr 267.716	3013.1	0.0059 mg/L	0.00003	0.0059 mg/L	0.00003	0.48%
Cu 324.752	10953.8	0.0175 mg/L	0.00096	0.0175 mg/L	0.00096	5.47%
Fe 273.955	171388.5	2.4660 mg/L	0.01397	2.4660 mg/L	0.01397	0.57%

Mg 279.077	2130794.4	32.225 mg/L	0.1923	32.225 mg/L	0.1923	0.60%
Mn 257.610	722676.7	1.2906 mg/L	0.00388	1.2906 mg/L	0.00388	0.23%
Ni 231.604	796.4	0.0066 mg/L	0.00010	0.0066 mg/L	0.00010	1.45%
Pb 220.353	65.7	0.0022 mg/L	0.00022	0.0022 mg/L	0.00022	9.61%
Sb 206.836	9.2	0.0003 mg/L	0.00027	0.0003 mg/L	0.00027	77.19%
Se 196.026	4.1	0.0008 mg/L	0.00134	0.0008 mg/L	0.00134	170.84%
Tl 190.801	-41.0	-0.0031 mg/L	0.00005	-0.0031 mg/L	0.00005	1.74%
V 292.402	2699.9	0.0057 mg/L	0.00003	0.0057 mg/L	0.00003	0.58%
Zn 206.200	6891.3	0.0315 mg/L	0.00024	0.0315 mg/L	0.00024	0.76%
Na 330.237	983364.6	374.00 mg/L	2.215	374.00 mg/L	2.215	0.59%
Cd 226.502	586.9	0.0009 mg/L	0.00002	0.0009 mg/L	0.00002	2.13%
Ti 334.940	148136.1	0.0947 mg/L	0.00054	0.0947 mg/L	0.00054	0.57%
Ca 227.546	43105.4	47.389 mg/L	0.2439	47.389 mg/L	0.2439	0.51%

Sequence No.: 19
Sample ID: A1243-01BMS,3169
Analyst:
Sample Wt:
Dilution:

MW-6MS

Autosampler Location: 21
Date Collected: 8/27/2002 5:01:40 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1243-01BMS,3169

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	453172.3	1.1594 mg/L	0.00858	1.1594 mg/L	0.00858	0.74%
Al 308.215	838285.5	13.755 mg/L	0.1624	13.755 mg/L	0.1624	1.18%
As 188.979	1754.5	0.4771 mg/L	0.00100	0.4771 mg/L	0.00100	0.21%
Ba 233.527	1486867.1	9.4570 mg/L	0.08029	9.4570 mg/L	0.08029	0.85%
Be 313.107	2589631.6	0.2346 mg/L	0.00165	0.2346 mg/L	0.00165	0.70%
Co 228.616	164796.2	2.3145 mg/L	0.01600	2.3145 mg/L	0.01600	0.69%
Cr 267.716	454017.1	0.9242 mg/L	0.00651	0.9242 mg/L	0.00651	0.70%
Cu 324.752	715519.9	1.2337 mg/L	0.00961	1.2337 mg/L	0.00961	0.78%
Fe 273.955	509150.6	7.3260 mg/L	0.05974	7.3260 mg/L	0.05974	0.82%
Mg 279.077	3674665.8	55.580 mg/L	0.4715	55.580 mg/L	0.4715	0.85%
Mn 257.610	2029295.1	3.6246 mg/L	0.02542	3.6246 mg/L	0.02542	0.70%
Ni 231.604	272354.3	2.3004 mg/L	0.02119	2.3004 mg/L	0.02119	0.92%
Pb 220.353	15559.1	0.4360 mg/L	0.00038	0.4360 mg/L	0.00038	0.09%
Sb 206.836	2672.2	0.4607 mg/L	0.00442	0.4607 mg/L	0.00442	0.96%
Se 196.026	1733.7	0.4452 mg/L	0.00233	0.4452 mg/L	0.00233	0.52%
Tl 190.801	1874.4	0.4201 mg/L	0.00443	0.4201 mg/L	0.00443	1.05%
V 292.402	1104184.6	2.3131 mg/L	0.02097	2.3131 mg/L	0.02097	0.91%
Zn 206.200	468779.9	2.3462 mg/L	0.01729	2.3462 mg/L	0.01729	0.74%
Na 330.237	1090820.1	414.84 mg/L	3.727	414.84 mg/L	3.727	0.90%
Cd 226.502	126821.4	0.2232 mg/L	0.00175	0.2232 mg/L	0.00175	0.78%
Ti 334.940	214531.7	0.1370 mg/L	0.01000	0.1370 mg/L	0.01000	7.30%
Ca 227.546	65228.8	71.556 mg/L	0.4768	71.556 mg/L	0.4768	0.67%

Sequence No.: 20
Sample ID: A1243-01BSD,3169
Analyst:
Sample Wt:
Dilution:

MW-6SD

Autosampler Location: 22
Date Collected: 8/27/2002 5:04:18 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1243-01BSD,3169

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	12.0	-0.0001 mg/L	0.00010	-0.0001 mg/L	0.00010	150.48%
Al 308.215	32515.1	0.5335 mg/L	0.01735	0.5335 mg/L	0.01735	3.25%
As 188.979	1.2	0.0003 mg/L	0.00084	0.0003 mg/L	0.00084	241.11%
Ba 233.527	2439.6	0.0163 mg/L	0.00028	0.0163 mg/L	0.00028	1.70%
Be 313.107	2015.2	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	20.98%
Co 228.616	49.8	0.0007 mg/L	0.00009	0.0007 mg/L	0.00009	12.86%
Cr 267.716	467.0	0.0009 mg/L	0.00002	0.0009 mg/L	0.00002	1.77%
Cu 324.752	2553.6	0.0041 mg/L	0.00026	0.0041 mg/L	0.00026	6.24%
Fe 273.955	24265.7	0.3492 mg/L	0.00644	0.3492 mg/L	0.00644	1.85%
Mg 279.077	394378.1	5.9643 mg/L	0.16961	5.9643 mg/L	0.16961	2.84%
Mn 257.610	133185.3	0.2378 mg/L	0.00598	0.2378 mg/L	0.00598	2.51%
Ni 231.604	146.8	0.0012 mg/L	0.00001	0.0012 mg/L	0.00001	1.19%

Pb 220.353	3.2	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	5.32%
Sb 206.836	-3.1	-0.0005 mg/L	0.00077	-0.0005 mg/L	0.00077	157.09%
Se 196.026	2.6	0.0006 mg/L	0.00065	0.0006 mg/L	0.00065	109.95%
Tl 190.801	-10.3	-0.0012 mg/L	0.00056	-0.0012 mg/L	0.00056	47.41%
V 292.402	447.9	0.0009 mg/L	0.00006	0.0009 mg/L	0.00006	6.43%
Zn 206.200	1592.4	0.0070 mg/L	0.00019	0.0070 mg/L	0.00019	2.69%
Na 330.237	149828.3	56.601 mg/L	1.5780	56.601 mg/L	1.5780	2.79%
Cd 226.502	112.9	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	14.28%
Ti 334.940	19983.0	0.0128 mg/L	0.00045	0.0128 mg/L	0.00045	3.52%
Ca 227.546	7567.2	8.3198 mg/L	0.03029	8.3198 mg/L	0.03029	0.36%

Sequence No.: 21 Autosampler Location: 3
Sample ID: CCV0 Date Collected: 8/27/2002 5:08:23 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: CCV0

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	48718.0	1.2457	mg/L	0.00204	1.2457	mg/L	0.00204	0.16%
Al 308.215	606158.4	9.9464	mg/L	0.03731	9.9464	mg/L	0.03731	0.38%
As 188.979	1856.4	0.5049	mg/L	0.00734	0.5049	mg/L	0.00734	1.45%
Ba 233.527	1564211.5	10.515	mg/L	0.0496	10.515	mg/L	0.0496	0.47%
Be 313.107	2808172.5	0.2543	mg/L	0.00283	0.2543	mg/L	0.00283	1.11%
Co 228.616	183583.9	2.5786	mg/L	0.00519	2.5786	mg/L	0.00519	0.20%
Cr 267.716	493127.4	1.0041	mg/L	0.00311	1.0041	mg/L	0.00311	0.31%
Cu 324.752	741175.2	1.2793	mg/L	0.00425	1.2793	mg/L	0.00425	0.33%
Fe 273.955	352228.6	5.0681	mg/L	0.01851	5.0681	mg/L	0.01851	0.37%
Mg 279.077	1675370.2	25.345	mg/L	0.0595	25.345	mg/L	0.0595	0.23%
Mn 257.610	1424449.7	2.5445	mg/L	0.00605	2.5445	mg/L	0.00605	0.24%
Ni 231.604	301960.0	2.5506	mg/L	0.00835	2.5506	mg/L	0.00835	0.33%
Pb 220.353	17874.2	0.5002	mg/L	0.00499	0.5002	mg/L	0.00499	1.00%
Sb 206.836	2983.6	0.5138	mg/L	0.00735	0.5138	mg/L	0.00735	1.43%
Se 196.026	1976.3	0.5078	mg/L	0.00175	0.5078	mg/L	0.00175	0.34%
Tl 190.801	2290.3	0.5056	mg/L	0.01317	0.5056	mg/L	0.01317	2.61%
V 292.402	1198320.7	2.5103	mg/L	0.00825	2.5103	mg/L	0.00825	0.33%
Zn 206.200	508743.8	2.5496	mg/L	0.00540	2.5496	mg/L	0.00540	0.21%
Na 330.237	64542.4	24.505	mg/L	0.0509	24.505	mg/L	0.0509	0.21%
Cd 226.502	140997.9	0.2482	mg/L	0.00085	0.2482	mg/L	0.00085	0.34%
Ti 334.940	1210.1	0.0008	mg/L	0.00006	0.0008	mg/L	0.00006	8.29%
Ca 227.546	22759.8	24.854	mg/L	0.4067	24.854	mg/L	0.4067	1.64%

Sequence No.: 22 Autosampler Location: 4
Sample ID: CCB0 Date Collected: 8/27/2002 5:10:58 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: CCB0

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	2.8	0.0000	mg/L	0.00019	0.0000	mg/L	0.00019	>999.9%
Al 308.215	-214.0	-0.0035	mg/L	0.00313	-0.0035	mg/L	0.00313	89.26%
As 188.979	1.0	0.0003	mg/L	0.00017	0.0003	mg/L	0.00017	62.55%
Ba 233.527	99.3	0.0007	mg/L	0.00028	0.0007	mg/L	0.00028	41.35%
Be 313.107	1650.1	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	21.59%
Co 228.616	11.9	0.0002	mg/L	0.00010	0.0002	mg/L	0.00010	57.54%
Cr 267.716	50.6	0.0001	mg/L	0.00026	0.0001	mg/L	0.00026	256.13%
Cu 324.752	1380.6	0.0024	mg/L	0.00047	0.0024	mg/L	0.00047	19.88%
Fe 273.955	-20.3	-0.0003	mg/L	0.00054	-0.0003	mg/L	0.00054	183.47%
Mg 279.077	8.9	0.0000	mg/L	0.00016	0.0000	mg/L	0.00016	378.31%
Mn 257.610	-91.3	-0.0002	mg/L	0.00004	-0.0002	mg/L	0.00004	26.48%
Ni 231.604	2.3	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	10.31%
Pb 220.353	-10.2	-0.0003	mg/L	0.00002	-0.0003	mg/L	0.00002	7.08%
Sb 206.836	-1.2	-0.0002	mg/L	0.00025	-0.0002	mg/L	0.00025	124.58%
Se 196.026	-0.6	-0.0001	mg/L	0.00080	-0.0001	mg/L	0.00080	557.57%

Tl 190.801	-1.8	-0.0004 mg/L	0.00025	-0.0004 mg/L	0.00025	64.26%
V 292.402	122.5	0.0003 mg/L	0.00014	0.0003 mg/L	0.00014	56.49%
Zn 206.200	212.5	0.0011 mg/L	0.00036	0.0011 mg/L	0.00036	33.47%
Na 330.237	332.3	0.1264 mg/L	0.01708	0.1264 mg/L	0.01708	13.51%
Cd 226.502	-11.5	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	145.12%
Ti 334.940	7.7	0.0000 mg/L	0.00006	0.0000 mg/L	0.00006	>999.9%
Ca 227.546	-0.1	-0.0002 mg/L	0.00157	-0.0002 mg/L	0.00157	799.32%

Sequence No.: 23 Autosampler Location: 23
Sample ID: A1243-01PDS,3169 Date Collected: 8/27/2002 5:15:01 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: A1243-01PDS,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	439771.7	1.1249	mg/L	0.00553	1.1249	mg/L	0.00553	0.49%
Al 308.215	788624.7	12.940	mg/L	0.0396	12.940	mg/L	0.0396	0.31%
As 188.979	1752.7	0.4764	mg/L	0.00457	0.4764	mg/L	0.00457	0.96%
Ba 233.527	1372247.0	9.2247	mg/L	0.00881	9.2247	mg/L	0.00881	0.10%
Be 313.107	2512048.0	0.2276	mg/L	0.00199	0.2276	mg/L	0.00199	0.87%
Co 228.616	159789.2	2.2442	mg/L	0.00969	2.2442	mg/L	0.00969	0.43%
Cr 267.716	442055.3	0.8999	mg/L	0.00242	0.8999	mg/L	0.00242	0.27%
Cu 324.752	698115.5	1.2047	mg/L	0.00435	1.2047	mg/L	0.00435	0.36%
Fe 273.955	465283.4	6.6948	mg/L	0.01487	6.6948	mg/L	0.01487	0.22%
Mg 279.077	3666071.5	55.450	mg/L	0.0831	55.450	mg/L	0.0831	0.15%
Mn 257.610	1991766.8	3.5575	mg/L	0.01508	3.5575	mg/L	0.01508	0.42%
Ni 231.604	267738.2	2.2614	mg/L	0.00050	2.2614	mg/L	0.00050	0.02%
Pb 220.353	15597.4	0.4370	mg/L	0.00114	0.4370	mg/L	0.00114	0.26%
Sb 206.836	2775.1	0.4781	mg/L	0.00028	0.4781	mg/L	0.00028	0.06%
Se 196.026	1719.1	0.4414	mg/L	0.00052	0.4414	mg/L	0.00052	0.12%
Tl 190.801	1876.8	0.4204	mg/L	0.00394	0.4204	mg/L	0.00394	0.94%
V 292.402	1080661.2	2.2638	mg/L	0.00451	2.2638	mg/L	0.00451	0.20%
Zn 206.200	457203.5	2.2883	mg/L	0.00536	2.2883	mg/L	0.00536	0.23%
Na 330.237	109845.7	417.73	mg/L	1.109	417.73	mg/L	1.109	0.27%
Cd 226.502	124452.3	0.2190	mg/L	0.00040	0.2190	mg/L	0.00040	0.18%
Ti 334.940	167777.4	0.1072	mg/L	0.00244	0.1072	mg/L	0.00244	2.28%
Ca 227.546	66346.8	72.794	mg/L	0.4910	72.794	mg/L	0.4910	0.67%

Sequence No.: 24 Autosampler Location: 24
Sample ID: A1243-04F,3169 Date Collected: 8/27/2002 5:17:40 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: A1243-04F,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-106.3	-0.0002	mg/L	0.00003	-0.0002	mg/L	0.00003	21.29%
Al 308.215	12395.2	0.2034	mg/L	0.00536	0.2034	mg/L	0.00536	2.64%
As 188.979	3.9	0.0011	mg/L	0.00073	0.0011	mg/L	0.00073	64.29%
Ba 233.527	2602.4	0.0175	mg/L	0.00026	0.0175	mg/L	0.00026	1.46%
Be 313.107	1205.6	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	13.66%
Co 228.616	41.5	0.0006	mg/L	0.00004	0.0006	mg/L	0.00004	7.85%
Cr 267.716	2337.9	0.0048	mg/L	0.00017	0.0048	mg/L	0.00017	3.55%
Cu 324.752	5585.2	0.0097	mg/L	0.00069	0.0097	mg/L	0.00069	7.16%
Fe 273.955	37445.7	0.5388	mg/L	0.00530	0.5388	mg/L	0.00530	0.98%
Mg 279.077	17712.0	0.2679	mg/L	0.00554	0.2679	mg/L	0.00554	2.07%
Mn 257.610	10921.7	0.0195	mg/L	0.00004	0.0195	mg/L	0.00004	0.18%
Ni 231.604	406.6	0.0034	mg/L	0.00015	0.0034	mg/L	0.00015	4.31%
Pb 220.353	249.9	0.0070	mg/L	0.00024	0.0070	mg/L	0.00024	3.37%
Sb 206.836	1.3	0.0003	mg/L	0.00072	0.0003	mg/L	0.00072	260.43%
Se 196.026	-1.0	-0.0001	mg/L	0.00039	-0.0001	mg/L	0.00039	321.56%
Tl 190.801	-1.4	-0.0002	mg/L	0.00005	-0.0002	mg/L	0.00005	27.88%
V 292.402	394.8	0.0008	mg/L	0.00031	0.0008	mg/L	0.00031	37.47%
Zn 206.200	1913.3	0.0095	mg/L	0.00043	0.0095	mg/L	0.00043	4.49%

Na 330.237	1050.3	0.4035 mg/L	0.06024	0.4035 mg/L	0.06024	14.93%
Cd 226.502	-5.6	0.0000 mg/L	0.00000	0.0000 mg/L	0.00000	13.84%
Ti 334.940	23486.6	0.0150 mg/L	0.00038	0.0150 mg/L	0.00038	2.51%
Ca 227.546	549.0	0.5990 mg/L	0.00742	0.5990 mg/L	0.00742	1.24%

Sequence No.: 25 Autosampler Location: 25
Sample ID: A1243-07C,3169 Date Collected: 8/27/2002 5:21:39 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: A1243-07C,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-107.2	0.0002	mg/L	0.00008	0.0002	mg/L	0.00008	44.32%
Al 308.215	104991.0	1.7228	mg/L	0.01659	1.7228	mg/L	0.01659	0.96%
As 188.979	27.6	0.0087	mg/L	0.00069	0.0087	mg/L	0.00069	7.95%
Ba 233.527	9798.0	0.0650	mg/L	0.00017	0.0650	mg/L	0.00017	0.27%
Be 313.107	505.5	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	2.32%
Co 228.616	198.4	0.0024	mg/L	0.00005	0.0024	mg/L	0.00005	2.18%
Cr 267.716	2009.2	0.0039	mg/L	0.00005	0.0039	mg/L	0.00005	1.27%
Cu 324.752	3196.9	0.0048	mg/L	0.00049	0.0048	mg/L	0.00049	10.21%
Fe 273.955	992180.8	14.276	mg/L	0.1327	14.276	mg/L	0.1327	0.93%
Mg 279.077	1271364.2	19.234	mg/L	0.1851	19.234	mg/L	0.1851	0.96%
Mn 257.610	1176042.6	2.1009	mg/L	0.01913	2.1009	mg/L	0.01913	0.91%
Ni 231.604	368.9	0.0029	mg/L	0.00001	0.0029	mg/L	0.00001	0.45%
Pb 220.353	38.4	0.0009	mg/L	0.00003	0.0009	mg/L	0.00003	3.49%
Sb 206.836	-4.0	0.0003	mg/L	0.00023	0.0003	mg/L	0.00023	72.45%
Se 196.026	-14.7	-0.0014	mg/L	0.00017	-0.0014	mg/L	0.00017	12.00%
Tl 190.801	-45.2	0.0002	mg/L	0.00032	0.0002	mg/L	0.00032	168.66%
V 292.402	2164.6	0.0044	mg/L	0.00000	0.0044	mg/L	0.00000	0.09%
Zn 206.200	4050.2	0.0180	mg/L	0.00014	0.0180	mg/L	0.00014	0.77%
Na 330.237	766506.2	291.57	mg/L	3.053	291.57	mg/L	3.053	1.05%
Cd 226.502	377.3	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	3.46%
Ti 334.940	195759.4	0.1248	mg/L	0.00110	0.1248	mg/L	0.00110	0.88%
Ca 227.546	18845.3	20.604	mg/L	0.0656	20.604	mg/L	0.0056	0.03%

Sequence No.: 26 Autosampler Location: 26
Sample ID: A1243-17C,3169 Date Collected: 8/27/2002 5:25:40 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: A1243-17C,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	798.0	-0.0022	mg/L	0.00001	-0.0022	mg/L	0.00001	0.44%
Al 308.215	164146.5	2.6935	mg/L	0.04007	2.6935	mg/L	0.04007	1.49%
As 188.979	16.4	0.0048	mg/L	0.00045	0.0048	mg/L	0.00045	9.46%
Ba 233.527	27522.4	0.1840	mg/L	0.00192	0.1840	mg/L	0.00192	1.04%
Be 313.107	4387.0	0.0005	mg/L	0.00001	0.0005	mg/L	0.00001	1.04%
Co 228.616	309.4	0.0042	mg/L	0.00008	0.0042	mg/L	0.00008	1.95%
Cr 267.716	4031.7	0.0082	mg/L	0.00008	0.0082	mg/L	0.00008	1.02%
Cu 324.752	6106.2	0.0097	mg/L	0.00012	0.0097	mg/L	0.00012	1.22%
Fe 273.955	282906.4	4.0706	mg/L	0.04676	4.0706	mg/L	0.04676	1.15%
Mg 279.077	4531533.3	68.521	mg/L	0.7331	68.521	mg/L	0.7331	1.07%
Mn 257.610	309406.3	0.5517	mg/L	0.00717	0.5517	mg/L	0.00717	1.30%
Ni 231.604	865.9	0.0072	mg/L	0.00002	0.0072	mg/L	0.00002	0.34%
Pb 220.353	87.3	0.0044	mg/L	0.00007	0.0044	mg/L	0.00007	1.51%
Sb 206.836	-5.2	0.0001	mg/L	0.00093	0.0001	mg/L	0.00093	749.25%
Se 196.026	-2.5	0.0003	mg/L	0.00288	0.0003	mg/L	0.00288	973.64%
Tl 190.801	-29.5	-0.0040	mg/L	0.00085	-0.0040	mg/L	0.00085	21.17%
V 292.402	6489.6	0.0094	mg/L	0.00007	0.0094	mg/L	0.00007	0.72%
Zn 206.200	2398.9	0.0056	mg/L	0.00002	0.0056	mg/L	0.00002	0.25%
Na 330.237	977389.7	371.52	mg/L	4.235	371.52	mg/L	4.235	1.14%
Cd 226.502	297.7	0.0004	mg/L	0.00002	0.0004	mg/L	0.00002	5.16%
Ti 334.940	130290.5	0.0847	mg/L	0.00145	0.0847	mg/L	0.00145	1.71%

Ca 227.546	220290.0	242.25 mg/L	3.128	242.25 mg/L	3.128	1.29%

Sequence No.: 27 Autosampler Location: 27
Sample ID: A1243-18C,3169 Date Collected: 8/27/2002 5:29:42 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: A1243-18C,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	1059.4	-0.0020	mg/L	0.00003	-0.0020	mg/L	0.00003	1.56%
Al 308.215	59039.9	0.9688	mg/L	0.00016	0.9688	mg/L	0.00016	0.02%
As 188.979	4.2	0.0013	mg/L	0.00096	0.0013	mg/L	0.00096	74.97%
Ba 233.527	2488.4	0.1664	mg/L	0.00011	0.1664	mg/L	0.00011	1.07%
Be 313.107	2156.6	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	5.48%
Co 228.616	159.9	0.0022	mg/L	0.00004	0.0022	mg/L	0.00004	1.97%
Cr 267.716	1628.6	0.0032	mg/L	0.00005	0.0032	mg/L	0.00005	1.56%
Cu 324.752	3506.3	0.0050	mg/L	0.00009	0.0050	mg/L	0.00009	1.88%
Fe 273.955	110882.7	1.5954	mg/L	0.00151	1.5954	mg/L	0.00151	0.09%
Mg 279.077	4348274.1	65.749	mg/L	0.0250	65.749	mg/L	0.0250	0.04%
Mn 257.610	265536.2	0.4733	mg/L	0.00076	0.4733	mg/L	0.00076	0.16%
Ni 231.604	406.6	0.0034	mg/L	0.00007	0.0034	mg/L	0.00007	1.95%
Pb 220.353	-16.3	0.0013	mg/L	0.00005	0.0013	mg/L	0.00005	4.14%
Sb 206.836	-7.9	-0.0007	mg/L	0.00057	-0.0007	mg/L	0.00057	88.21%
Se 196.026	7.3	0.0022	mg/L	0.00404	0.0022	mg/L	0.00404	183.80%
Tl 190.801	-28.0	-0.0042	mg/L	0.00011	-0.0042	mg/L	0.00011	2.51%
V 292.402	1937.6	0.0041	mg/L	0.00000	0.0041	mg/L	0.00000	0.10%
Zn 206.200	1406.5	0.0010	mg/L	0.00014	0.0010	mg/L	0.00014	14.33%
Na 330.237	951290.8	361.58	mg/L	1.099	361.58	mg/L	1.099	0.30%
Cd 226.502	201.5	0.0003	mg/L	0.00000	0.0003	mg/L	0.00000	0.37%
Ti 334.940	52820.1	0.0353	mg/L	0.00021	0.0353	mg/L	0.00021	0.60%
Ca 227.546	213098.2	234.36	mg/L	1.006	234.36	mg/L	1.006	0.43%

Sequence No.: 28 Autosampler Location: 28
Sample ID: A1243-20C,3169 Date Collected: 8/27/2002 5:33:45 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: A1243-20C,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-136.5	-0.0003	mg/L	0.00020	-0.0003	mg/L	0.00020	59.00%
Al 308.215	2317.3	0.0380	mg/L	0.00005	0.0380	mg/L	0.00005	0.14%
As 188.979	1.4	0.0004	mg/L	0.00088	0.0004	mg/L	0.00088	226.64%
Ba 233.527	1542.6	0.0104	mg/L	0.00032	0.0104	mg/L	0.00032	3.04%
Be 313.107	843.4	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	12.90%
Co 228.616	19.9	0.0003	mg/L	0.00002	0.0003	mg/L	0.00002	8.99%
Cr 267.716	368.2	0.0007	mg/L	0.00021	0.0007	mg/L	0.00021	27.66%
Cu 324.752	2584.7	0.0045	mg/L	0.00010	0.0045	mg/L	0.00010	2.22%
Fe 273.955	3283.9	0.0473	mg/L	0.00029	0.0473	mg/L	0.00029	0.61%
Mg 279.077	2667.5	0.0403	mg/L	0.00370	0.0403	mg/L	0.00370	9.17%
Mn 257.610	895.8	0.0016	mg/L	0.00002	0.0016	mg/L	0.00002	0.97%
Ni 231.604	73.3	0.0006	mg/L	0.00006	0.0006	mg/L	0.00006	9.15%
Pb 220.353	-5.5	-0.0001	mg/L	0.00010	-0.0001	mg/L	0.00010	66.66%
Sb 206.836	3.2	0.0005	mg/L	0.00040	0.0005	mg/L	0.00040	72.35%
Se 196.026	3.8	0.0010	mg/L	0.00037	0.0010	mg/L	0.00037	36.42%
Tl 190.801	-6.4	-0.0014	mg/L	0.00002	-0.0014	mg/L	0.00002	1.61%
V 292.402	64.6	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	8.26%
Zn 206.200	812.5	0.0041	mg/L	0.00014	0.0041	mg/L	0.00014	3.54%
Na 330.237	993.3	0.3784	mg/L	0.07316	0.3784	mg/L	0.07316	19.33%
Cd 226.502	-20.3	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	2.56%
Ti 334.940	9331.5	0.0028	mg/L	0.00002	0.0028	mg/L	0.00002	0.82%
Ca 227.546	158.7	0.1741	mg/L	0.02529	0.1741	mg/L	0.02529	14.53%

Sequence No.: 29
Sample ID: A1243-24C,3169 6MW29
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 29
Date Collected: 8/27/2002 5:37:45 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1243-24C,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-639.8	-0.0005	mg/L	0.00018	-0.0005	mg/L	0.00018	34.04%
Al 308.215	20933.9	0.3435	mg/L	0.00184	0.3435	mg/L	0.00184	0.54%
As 188.979	35.2	0.0107	mg/L	0.00100	0.0107	mg/L	0.00100	9.34%
Ba 233.527	11862.0	0.0788	mg/L	0.00077	0.0788	mg/L	0.00077	0.98%
Be 313.107	471.1	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	3.84%
Co 228.616	65.1	0.0007	mg/L	0.00011	0.0007	mg/L	0.00011	16.24%
Cr 267.716	1188.8	0.0024	mg/L	0.00013	0.0024	mg/L	0.00013	5.49%
Cu 324.752	356.2	0.0011	mg/L	0.00031	0.0011	mg/L	0.00031	28.37%
Fe 273.955	945248.8	13.601	mg/L	0.0332	13.601	mg/L	0.0332	0.24%
Mg 279.077	2741389.2	41.455	mg/L	0.0908	41.455	mg/L	0.0908	0.22%
Mn 257.610	511169.1	0.9128	mg/L	0.00001	0.9128	mg/L	0.00001	0.00%
Ni 231.604	251.9	0.0020	mg/L	0.00007	0.0020	mg/L	0.00007	3.32%
Pb 220.353	-43.1	-0.0008	mg/L	0.00008	-0.0008	mg/L	0.00008	10.08%
Sb 206.836	-3.7	0.0005	mg/L	0.00091	0.0005	mg/L	0.00091	167.17%
Se 196.026	-12.3	0.0001	mg/L	0.00085	0.0001	mg/L	0.00085	>999.9%
Tl 190.801	-32.9	-0.0024	mg/L	0.00092	-0.0024	mg/L	0.00092	37.53%
V 292.402	6063.9	0.0084	mg/L	0.00026	0.0084	mg/L	0.00026	3.12%
Zn 206.200	3695.9	0.0145	mg/L	0.00028	0.0145	mg/L	0.00028	1.94%
Na 330.237	1846280.5	702.16	mg/L	2.382	702.16	mg/L	2.382	0.34%
Cd 226.502	364.3	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	2.68%
Ti 334.940	33121.6	0.0218	mg/L	0.00009	0.0218	mg/L	0.00009	0.43%
Ca 227.546	89978.8	98.845	mg/L	0.2235	98.845	mg/L	0.2235	0.23%

Sequence No.: 30
Sample ID: ICSA1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 8/27/2002 5:41:48 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSA1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Mg 328.068	-12613.6	-0.0008	mg/L	0.00022	-0.0008	mg/L	0.00022	25.98%
Al 308.215	30851799.5	506.35	mg/L	0.514	506.25	mg/L	0.514	0.10%
As 188.979	-17.7	0.0043	mg/L	0.00169	0.0043	mg/L	0.00169	39.04%
Ba 233.527	1487.6	0.0004	mg/L	0.00054	0.0004	mg/L	0.00054	129.66%
Be 313.107	534.3	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	6.91%
Co 228.616	78.7	0.0001	mg/L	0.00036	0.0001	mg/L	0.00036	240.15%
Cr 267.716	-210.5	0.0018	mg/L	0.00009	0.0018	mg/L	0.00009	4.93%
Cu 324.752	-12676.3	0.0014	mg/L	0.00022	0.0014	mg/L	0.00022	15.58%
Fe 273.955	12526522.9	180.24	mg/L	0.297	180.24	mg/L	0.297	0.16%
Mg 279.077	32236675.7	487.43	mg/L	0.811	487.43	mg/L	0.811	0.17%
Mn 257.610	-7437.4	-0.0134	mg/L	0.00013	-0.0134	mg/L	0.00013	0.97%
Ni 231.604	221.9	0.0019	mg/L	0.00039	0.0019	mg/L	0.00039	20.96%
Pb 220.353	-1611.7	-0.0045	mg/L	0.00249	-0.0045	mg/L	0.00249	55.62%
Sb 206.836	-144.5	0.0116	mg/L	0.01152	0.0116	mg/L	0.01152	99.35%
Se 196.026	-248.6	-0.0121	mg/L	0.00184	-0.0121	mg/L	0.00184	15.24%
Tl 190.801	10.8	0.0028	mg/L	0.00339	0.0028	mg/L	0.00339	121.21%
V 292.402	79.2	-0.0013	mg/L	0.00020	-0.0013	mg/L	0.00020	15.07%
Zn 206.200	6861.1	-0.0097	mg/L	0.00026	-0.0097	mg/L	0.00026	2.68%
Na 330.237	1914.5	0.4745	mg/L	0.04047	0.4745	mg/L	0.04047	8.53%
Cd 226.502	4883.9	0.0023	mg/L	0.00007	0.0023	mg/L	0.00007	3.10%
Ti 334.940	-7475.4	-0.0011	mg/L	0.00000	-0.0011	mg/L	0.00000	0.41%
Ca 227.546	479290.7	525.81	mg/L	3.197	526.81	mg/L	3.197	0.61%

Sequence No.: 31
Sample ID: ICSAB1
Analyst:

Autosampler Location: 6
Date Collected: 8/27/2002 5:44:27 PM

000891

Sample Wt:
Dilution:

Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Mg 328.068	55570.0	0.1730	mg/L	0.00231	0.1730	mg/L	0.00231	1.34%
Al 308.215	30217837.0	495.84	mg/L	5.880	495.84	mg/L	5.880	1.19%
As 188.979	328.8	0.1012	mg/L	0.00553	0.1012	mg/L	0.00553	5.46%
Ba 233.527	77787.6	0.5145	mg/L	0.00481	0.5145	mg/L	0.00481	0.93%
Be 313.107	5679751.4	0.5143	mg/L	0.00547	0.5143	mg/L	0.00549	1.07%
Co 228.616	34000.0	0.4767	mg/L	0.00294	0.4767	mg/L	0.00294	0.62%
Cr 267.716	243598.4	0.4982	mg/L	0.00370	0.4982	mg/L	0.00370	0.74%
Cu 324.752	318391.9	0.5729	mg/L	0.00665	0.5729	mg/L	0.00664	1.16%
Fe 273.955	12228226.6	175.95	mg/L	1.843	175.95	mg/L	1.843	1.05%
Mg 279.077	31313126.6	473.46	mg/L	4.576	473.46	mg/L	4.576	0.97%
Mn 257.610	276026.3	0.4931	mg/L	0.00385	0.4931	mg/L	0.00385	0.78%
Ni 231.604	109228.3	0.9227	mg/L	0.00638	0.9227	mg/L	0.00638	0.69%
Pb 220.353	14632.6	0.4482	mg/L	0.00364	0.4482	mg/L	0.00364	0.81%
Sb 206.836	3225.4	0.5875	mg/L	0.00912	0.5875	mg/L	0.00912	1.55%
Se 196.026	1595.3	0.4611	mg/L	0.01556	0.4611	mg/L	0.01556	3.38%
Tl 190.801	436.4	0.0966	mg/L	0.00469	0.0965	mg/L	0.00469	4.85%
V 292.402	240732.9	0.5035	mg/L	0.00377	0.5035	mg/L	0.00377	0.75%
Zn 206.200	192201.7	0.9214	mg/L	0.00560	0.9214	mg/L	0.00560	0.61%
Na 330.237	131829.0	49.893	mg/L	0.5020	49.893	mg/L	0.5020	1.01%
Cd 226.502	524173.7	0.9153	mg/L	0.00644	0.9153	mg/L	0.00644	0.70%
Ti 334.940	-6940.1	-0.0009	mg/L	0.00010	-0.0009	mg/L	0.00010	10.19%
Ca 227.546	463039.3	507.93	mg/L	5.525	507.93	mg/L	5.525	1.09%

Sequence No.: 32
Sample ID: CCV1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 8/27/2002 5:47:11 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	499232.1	1.2777	mg/L	0.00479	1.2777	mg/L	0.00479	0.37%
Al 308.215	624191.7	10.242	mg/L	0.0241	10.242	mg/L	0.0241	0.24%
As 188.979	1882.4	0.5121	mg/L	0.00088	0.5121	mg/L	0.00088	0.17%
Ba 233.527	1600562.1	10.760	mg/L	0.0226	10.760	mg/L	0.0226	0.21%
Be 313.107	2836882.1	0.2569	mg/L	0.00085	0.2569	mg/L	0.00085	0.33%
Co 228.616	187960.0	2.6401	mg/L	0.00957	2.6401	mg/L	0.00957	0.36%
Cr 267.716	505737.6	1.0298	mg/L	0.00411	1.0298	mg/L	0.00411	0.40%
Cu 324.752	758403.8	1.3091	mg/L	0.00522	1.3091	mg/L	0.00522	0.40%
Fe 273.955	362081.8	5.2099	mg/L	0.01005	5.2099	mg/L	0.01005	0.19%
Mg 279.077	1718401.6	25.996	mg/L	0.0532	25.996	mg/L	0.0532	0.20%
Mn 257.610	1458494.8	2.6053	mg/L	0.00891	2.6053	mg/L	0.00891	0.34%
Ni 231.604	308706.5	2.6076	mg/L	0.00409	2.6076	mg/L	0.00409	0.16%
Pb 220.353	17841.4	0.4994	mg/L	0.00706	0.4994	mg/L	0.00706	1.41%
Sb 206.836	2932.4	0.5052	mg/L	0.00364	0.5052	mg/L	0.00364	0.72%
Se 196.026	1939.2	0.4983	mg/L	0.00317	0.4983	mg/L	0.00317	0.64%
Tl 190.801	2311.5	0.5104	mg/L	0.00226	0.5104	mg/L	0.00226	0.44%
V 292.402	1229002.1	2.5746	mg/L	0.00719	2.5746	mg/L	0.00719	0.28%
Zn 206.200	520767.7	2.6099	mg/L	0.00639	2.6099	mg/L	0.00639	0.24%
Na 330.237	66254.7	25.156	mg/L	0.0764	25.156	mg/L	0.0764	0.30%
Cd 226.502	144498.0	0.2544	mg/L	0.00071	0.2544	mg/L	0.00071	0.28%
Ti 334.940	1190.7	0.0008	mg/L	0.00003	0.0008	mg/L	0.00003	4.49%
Ca 227.546	22745.3	24.834	mg/L	0.4868	24.834	mg/L	0.4868	1.96%

Sequence No.: 33
Sample ID: CCB1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 8/27/2002 5:49:45 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	70.2	0.0002	mg/L	0.00043	0.0002	mg/L	0.00043	237.79%
Al 308.215	32.2	0.0005	mg/L	0.00633	0.0005	mg/L	0.00633	>999.9%
As 188.979	2.0	0.0005	mg/L	0.00056	0.0005	mg/L	0.00056	106.94%
Ba 233.527	41.5	0.0003	mg/L	0.00017	0.0003	mg/L	0.00017	61.55%
Be 313.107	1238.7	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	24.02%
Co 228.616	16.6	0.0002	mg/L	0.00004	0.0002	mg/L	0.00004	18.67%
Cr 267.716	40.5	0.0001	mg/L	0.00008	0.0001	mg/L	0.00008	95.61%
Cu 324.752	792.6	0.0014	mg/L	0.00052	0.0014	mg/L	0.00052	37.82%
Fe 273.955	132.0	0.0019	mg/L	0.00058	0.0019	mg/L	0.00058	30.72%
Mg 279.077	380.0	0.0057	mg/L	0.00309	0.0057	mg/L	0.00309	53.82%
Mn 257.610	-84.3	-0.0002	mg/L	0.00006	-0.0002	mg/L	0.00006	39.73%
Ni 231.604	4.4	0.0000	mg/L	0.00011	0.0000	mg/L	0.00011	295.47%
Pb 220.353	-6.1	-0.0002	mg/L	0.00039	0.0002	mg/L	0.00029	172.10%
Sb 206.836	-0.1	0.0000	mg/L	0.00118	0.0000	mg/L	0.00118	>999.9%
Se 196.026	4.2	0.0011	mg/L	0.00070	0.0011	mg/L	0.00070	64.40%
Tl 190.801	-3.6	-0.0008	mg/L	0.00021	-0.0008	mg/L	0.00021	26.91%
V 292.402	72.7	0.0002	mg/L	0.00009	0.0002	mg/L	0.00009	58.47%
Zn 206.200	178.0	0.0009	mg/L	0.00037	0.0009	mg/L	0.00037	41.56%
Na 330.237	239.2	0.0910	mg/L	0.00561	0.0910	mg/L	0.00561	6.16%
Cd 226.502	1.0	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	545.46%
Ti 334.940	-21.2	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	235.54%
Ca 227.546	23.4	0.0256	mg/L	0.00020	0.0256	mg/L	0.00020	0.78%

Sequence No.: 34
Sample ID: A1243-28C,3169 3MW27
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 30
Date Collected: 8/27/2002 5:53:48 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1243-28C,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	718.9	-0.0002	mg/L	0.00029	-0.0021	mg/L	0.00029	13.87%
Al 308.215	218645.5	3.5877	mg/L	0.09869	3.5877	mg/L	0.09869	2.75%
As 188.979	-1.9	-0.0003	mg/L	0.00061	-0.0003	mg/L	0.00061	185.72%
Ba 233.527	29792.9	0.1987	mg/L	0.00420	0.1987	mg/L	0.00420	2.11%
Be 313.107	-1042.0	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	1.67%
Co 228.616	712.4	0.0096	mg/L	0.00003	0.0096	mg/L	0.00003	0.31%
Cr 267.716	4085.5	0.0071	mg/L	0.00012	0.0071	mg/L	0.00012	1.74%
Cu 324.752	5782.0	0.0013	mg/L	0.00087	0.0013	mg/L	0.00087	67.03%
Fe 273.955	404741.0	5.8237	mg/L	0.12811	5.8237	mg/L	0.12811	2.20%
Mg 279.077	13760905.3	208.10	mg/L	2.042	208.10	mg/L	2.042	0.98%
Mn 257.610	3873591.2	6.9166	mg/L	0.09428	6.9166	mg/L	0.09428	1.36%
Ni 231.604	1268	0.0100	mg/L	0.00007	0.0100	mg/L	0.00007	0.72%
Pb 220.353	-18.5	0.0003	mg/L	0.00007	0.0003	mg/L	0.00007	26.65%
Sb 206.836	-2.8	-0.0004	mg/L	0.00028	-0.0004	mg/L	0.00028	67.79%
Se 196.026	12.8	0.0000	mg/L	0.00035	0.0000	mg/L	0.00035	>999.9%
Tl 190.801	-143.4	-0.0001	mg/L	0.00016	-0.0001	mg/L	0.00016	227.78%
V 292.402	3785.6	0.0082	mg/L	0.00006	0.0082	mg/L	0.00006	0.79%
Zn 206.200	3875.5	0.0010	mg/L	0.00016	0.0010	mg/L	0.00016	16.31%
Na 330.237	5189099.2	1973.5	mg/L	25.55	1973.5	mg/L	25.55	1.29%
Cd 226.502	163.6	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	13.03%
Ti 334.940	399675.0	0.2562	mg/L	0.00202	0.2562	mg/L	0.00202	0.79%
Ca 227.546	223477.1	245.74	mg/L	7.217	245.74	mg/L	7.217	2.94%

Sequence No.: 35
Sample ID: A1243-33D,3169 12MW17
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 31
Date Collected: 8/27/2002 5:57:57 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1243-33D,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

000892

Analyte	Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-181.9	-0.0011	mg/L	0.00007	-0.0011	mg/L	0.00007	6.31%
Al 308.215	17816.5	0.2923	mg/L	0.02164	0.2923	mg/L	0.02166	7.40%
As 188.979	-1.6	0.0004	mg/L	0.00095	0.0004	mg/L	0.00095	269.15%
Ba 233.527	18532.2	0.1237	mg/L	0.00221	0.1237	mg/L	0.00221	1.79%
Be 313.107	-34.9	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	357.31%
Co 228.616	186.6	0.0025	mg/L	0.00003	0.0025	mg/L	0.00003	1.13%
Cr 267.716	1389.6	0.0028	mg/L	0.00027	0.0028	mg/L	0.00027	9.90%
Cu 324.752	759.6	0.0010	mg/L	0.00049	0.0010	mg/L	0.00049	46.76%
Fe 273.955	586714.7	8.4420	mg/L	0.39737	8.4420	mg/L	0.39737	4.71%
Mg 279.077	17329158.7	262.03	mg/L	11.653	262.03	mg/L	11.653	4.45%
Mn 257.610	491856.0	0.8744	mg/L	0.04368	0.8744	mg/L	0.04369	5.00%
Ni 231.604	503.7	0.0042	mg/L	0.00009	0.0042	mg/L	0.00009	2.20%
Pb 220.353	-57.3	-0.0014	mg/L	0.00023	-0.0014	mg/L	0.00023	16.23%
Sb 206.836	-1.4	0.0000	mg/L	0.00009	0.0000	mg/L	0.00009	360.08%
Se 196.026	-5.9	0.0012	mg/L	0.00021	0.0012	mg/L	0.00021	17.86%
Tl 190.801	-43.1	-0.0031	mg/L	0.00015	-0.0031	mg/L	0.00015	4.94%
V 292.402	420.7	0.0009	mg/L	0.00007	0.0009	mg/L	0.00007	8.55%
Zn 206.200	633.6	-0.0176	mg/L	0.00093	-0.0176	mg/L	0.00093	5.25%
Na 330.237	7116280.8	2706.6	mg/L	136.87	2706.6	mg/L	136.87	5.06%
Cd 226.502	212.2	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	19.37%
Ti 334.940	16916.6	0.0116	mg/L	0.00065	0.0116	mg/L	0.00065	5.59%
Ca 227.546	109264.0	120.10	mg/L	7.366	120.10	mg/L	7.366	6.13%

Sequence No.: 36
Sample ID: A1243-34D,3169 MW18
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 32
Date Collected: 8/27/2002 6:02:06 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1243-34D,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-1277.3	-0.0002	mg/L	0.00053	-0.0002	mg/L	0.00053	272.22%
Al 308.215	6139.6	0.1007	mg/L	0.00016	0.1007	mg/L	0.00016	0.15%
As 188.979	-4.5	0.0065	mg/L	0.00055	0.0065	mg/L	0.00055	8.47%
Ba 233.527	16575.4	0.1193	mg/L	0.00195	0.1103	mg/L	0.00195	1.77%
Be 313.107	-164.3	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	164.13%
Co 228.616	53.1	0.0005	mg/L	0.00008	0.0005	mg/L	0.00008	15.63%
Cr 267.716	738.1	0.0013	mg/L	0.00020	0.0013	mg/L	0.00020	15.43%
Cu 324.752	-348.8	-0.0019	mg/L	0.00019	-0.0019	mg/L	0.00019	10.47%
Fe 273.955	1221564.1	17.577	mg/L	0.2601	17.577	mg/L	0.2601	1.48%
Mg 279.077	3366427.1	50.914	mg/L	0.6870	50.914	mg/L	0.6870	1.35%
Mn 257.610	1341028.1	2.3952	mg/L	0.03194	2.3952	mg/L	0.03194	1.33%
Ni 231.604	172.3	0.0012	mg/L	0.00003	0.0012	mg/L	0.00003	2.70%
Pb 220.353	-42.8	-0.0015	mg/L	0.00007	-0.0015	mg/L	0.00007	4.47%
Sb 206.836	-11.9	-0.0010	mg/L	0.00090	-0.0010	mg/L	0.00090	92.10%
Se 196.026	-18.2	-0.0015	mg/L	0.00110	-0.0015	mg/L	0.00110	73.25%
Tl 190.801	-63.9	-0.0024	mg/L	0.00054	-0.0024	mg/L	0.00054	22.34%
V 292.402	776.6	0.0016	mg/L	0.00012	0.0016	mg/L	0.00012	7.03%
Zn 206.200	531.8	-0.0022	mg/L	0.00032	-0.0022	mg/L	0.00032	14.63%
Na 330.237	1443242.2	548.91	mg/L	9.830	548.91	mg/L	9.830	1.79%
Cd 226.502	418.8	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	33.58%
Ti 334.940	4673.5	0.0033	mg/L	0.00016	0.0033	mg/L	0.00016	4.72%
Ca 227.546	46398.1	50.878	mg/L	0.9323	50.878	mg/L	0.9323	1.83%

Sequence No.: 37
Sample ID: A1243-37D,3169 MW37
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 33
Date Collected: 8/27/2002 6:06:12 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1243-37D,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-196.5	-0.0005	mg/L	0.00090	-0.0005	mg/L	0.00000	0.04%
Al 308.215	181.6	0.0030	mg/L	0.00080	0.0030	mg/L	0.00080	26.68%

000893

As 188.979	-5.1	-0.0014 mg/L	0.00123	-0.0014 mg/L	0.00123	90.41%
Ba 233.527	884.5	0.0059 mg/L	0.00024	0.0059 mg/L	0.00024	3.99%
Be 313.107	184.0	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	68.09%
Co 228.616	20.1	0.0003 mg/L	0.00004	0.0003 mg/L	0.00004	13.78%
Cr 267.716	299.0	0.0006 mg/L	0.00016	0.0006 mg/L	0.00016	25.83%
Cu 324.752	571.6	0.0010 mg/L	0.00001	0.0010 mg/L	0.00001	0.78%
Fe 273.955	1135.9	0.0163 mg/L	0.00066	0.0163 mg/L	0.00066	4.06%
Mg 279.077	1054.6	0.0160 mg/L	0.00234	0.0160 mg/L	0.00234	14.66%
Mn 257.610	508.2	0.0009 mg/L	0.00006	0.0009 mg/L	0.00006	6.19%
Ni 231.604	57.2	0.0005 mg/L	0.00011	0.0005 mg/L	0.00011	22.59%
Pb 220.353	-8.5	-0.0002 mg/L	0.00005	-0.0002 mg/L	0.00005	22.13%
Sb 206.836	-0.4	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	38.58%
Se 196.026	-0.2	-0.0001 mg/L	0.00133	-0.0001 mg/L	0.00133	>999.9%
Tl 190.801	-4.7	-0.0010 mg/L	0.00048	-0.0010 mg/L	0.00048	47.13%
V 292.402	80.5	0.0002 mg/L	0.00006	0.0002 mg/L	0.00006	32.69%
Zn 206.200	192.5	0.0010 mg/L	0.00012	0.0010 mg/L	0.00012	12.94%
Na 330.237	1061.1	0.4037 mg/L	0.01340	0.4037 mg/L	0.01340	3.32%
Cd 226.502	-19.4	0.0000 mg/L	0.00000	0.0000 mg/L	0.00000	0.43%
Ti 334.940	1145.5	0.0007 mg/L	0.00003	0.0007 mg/L	0.00003	3.80%
Ca 227.546	81.6	0.0896 mg/L	0.01941	0.0896 mg/L	0.01941	21.67%

Sequence No.: 38
Sample ID: A1243-38D,3169
Analyst:
Sample Wt:
Dilution:

MW10

Autosampler Location: 34
Date Collected: 8/27/2002 6:10:15 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1243-38D,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-2855.4	0.0007	mg/L	0.00057	0.0007	mg/L	0.00057	79.80%
Al 308.215	1770960.0	29.060	mg/L	0.5244	29.060	mg/L	0.5244	1.80%
As 188.979	15.3	0.0080	mg/L	0.00010	0.0080	mg/L	0.00010	1.28%
Ba 233.527	38048.8	0.2541	mg/L	0.00343	0.2541	mg/L	0.00343	1.35%
Be 313.107	-3971.3	0.0014	mg/L	0.00002	0.0014	mg/L	0.00002	1.51%
Co 228.616	1117.6	0.0130	mg/L	0.00000	0.0130	mg/L	0.00000	0.03%
Cr 267.716	25389.8	0.0520	mg/L	0.00086	0.0520	mg/L	0.00086	1.65%
Cu 324.752	19247.8	0.0355	mg/L	0.00062	0.0355	mg/L	0.00062	1.74%
Fe 273.955	2354150.7	33.873	mg/L	0.5278	33.873	mg/L	0.5278	1.56%
Mg 279.077	1245933.3	18.843	mg/L	0.3200	18.843	mg/L	0.3200	1.70%
Mn 257.610	464117.3	0.8298	mg/L	0.01477	0.8298	mg/L	0.01477	1.78%
Ni 231.604	3031.9	0.0251	mg/L	0.00008	0.0251	mg/L	0.00008	0.30%
Pb 220.353	408.8	0.0144	mg/L	0.00011	0.0144	mg/L	0.00011	0.73%
Sb 206.836	-19.7	0.0018	mg/L	0.00002	0.0018	mg/L	0.00002	0.85%
Se 196.026	-46.3	-0.0033	mg/L	0.00194	-0.0033	mg/L	0.00194	58.69%
Tl 190.801	-40.7	-0.0016	mg/L	0.00052	-0.0016	mg/L	0.00052	32.48%
V 292.402	28373.6	0.0583	mg/L	0.00118	0.0583	mg/L	0.00118	2.03%
Zn 206.200	16923.4	0.0809	mg/L	0.00022	0.0809	mg/L	0.00022	0.27%
Na 330.237	251436.7	96.070	mg/L	1.8317	96.070	mg/L	1.8317	1.91%
Cd 226.502	923.9	0.0004	mg/L	0.00008	0.0004	mg/L	0.00008	19.16%
Ti 334.940	2609990.7	1.6624	mg/L	0.01445	1.6624	mg/L	0.01445	0.87%
Ca 227.546	41702.4	45.583	mg/L	0.9241	45.583	mg/L	0.9241	2.03%

Sequence No.: 39
Sample ID: A1243-39D,3169
Analyst:
Sample Wt:
Dilution:

MW16

Autosampler Location: 35
Date Collected: 8/27/2002 6:14:24 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1243-39D,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-377.1	-0.0001	mg/L	0.00042	-0.0001	mg/L	0.00042	314.29%
Al 308.215	2673.8	0.0439	mg/L	0.00077	0.0439	mg/L	0.00077	1.75%
As 188.979	4.2	0.0019	mg/L	0.00011	0.0019	mg/L	0.00011	6.11%
Ba 233.527	29245.4	0.1955	mg/L	0.00237	0.1955	mg/L	0.00237	1.21%
Be 313.107	311.5	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	31.77%

Co 228.616	348.9	0.0048 mg/L	0.00000	0.0048 mg/L	0.00000	0.09%
Cr 267.716	327.7	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	41.58%
Cu 324.752	895.3	-0.0020 mg/L	0.00007	-0.0020 mg/L	0.00007	3.59%
Fe 273.955	719402.4	10.351 mg/L	0.1278	10.351 mg/L	0.1278	1.23%
Mg 279.077	3471645.0	52.512 mg/L	0.6595	52.512 mg/L	0.6595	1.26%
Mn 257.610	2149652.1	3.8396 mg/L	0.05346	3.8396 mg/L	0.05346	1.39%
Ni 231.604	747.9	0.0060 mg/L	0.00004	0.0060 mg/L	0.00004	0.63%
Pb 220.353	-53.9	-0.0018 mg/L	0.00011	-0.0018 mg/L	0.00011	6.07%
Sb 206.836	-6.1	-0.0007 mg/L	0.00000	-0.0007 mg/L	0.00000	0.19%
Se 196.026	-9.9	-0.0026 mg/L	0.00043	-0.0026 mg/L	0.00043	16.75%
Tl 190.801	-83.3	-0.0010 mg/L	0.00007	-0.0010 mg/L	0.00007	7.50%
V 292.402	354.0	0.0009 mg/L	0.00011	0.0009 mg/L	0.00011	11.82%
Zn 206.200	5758.1	0.0237 mg/L	0.00005	0.0237 mg/L	0.00005	0.21%
Na 330.237	1053262.1	400.51 mg/L	6.344	400.51 mg/L	6.344	1.58%
Cd 226.502	416.7	0.0004 mg/L	0.00001	0.0004 mg/L	0.00001	3.57%
Ti 334.940	1001.3	0.0012 mg/L	0.00006	0.0012 mg/L	0.00006	5.31%
Ca 227.546	68545.7	75.300 mg/L	1.1573	75.300 mg/L	1.1573	1.54%

Sequence No.: 40
Sample ID: A1243-40D,3169
Analyst:
Sample Wt:
Dilution:

RMW20

Autosampler Location: 36
Date Collected: 8/27/2002 6:18:30 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1243-40D,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	795.2	-0.0028	mg/L	0.00030	-0.0028	mg/L	0.00030	10.54%
Al 308.215	1226.9	0.0201	mg/L	0.00129	0.0201	mg/L	0.00129	6.38%
As 188.979	-5.2	-0.0012	mg/L	0.00014	-0.0012	mg/L	0.00014	11.66%
Ba 233.527	11173.9	0.0741	mg/L	0.00089	0.0741	mg/L	0.00089	1.20%
Be 313.107	381.6	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	12.55%
Co 228.616	1306.3	0.0183	mg/L	0.00004	0.0183	mg/L	0.00004	0.23%
Cr 267.716	29.5	-0.0002	mg/L	0.00004	-0.0002	mg/L	0.00004	26.40%
Cu 324.752	350.1	-0.0014	mg/L	0.00018	-0.0014	mg/L	0.00018	12.58%
Fe 273.955	179422.8	2.5818	mg/L	0.02722	2.5818	mg/L	0.02722	1.05%
Mg 279.077	42398887.3	641.09	mg/L	34.152	641.09	mg/L	34.152	5.33%
Mn 257.610	758387.7	1.3441	mg/L	0.01390	1.3441	mg/L	0.01390	1.03%
Ni 231.604	383.6	0.0031	mg/L	0.00011	0.0031	mg/L	0.00011	3.60%
Pb 220.353	-108.6	-0.0026	mg/L	0.00037	-0.0026	mg/L	0.00037	14.17%
Sb 206.836	-9.0	-0.0025	mg/L	0.00009	-0.0025	mg/L	0.00009	3.72%
Se 196.026	16.8	0.0065	mg/L	0.00189	0.0065	mg/L	0.00189	28.97%
Tl 190.801	-46.1	0.0011	mg/L	0.00026	0.0011	mg/L	0.00026	24.17%
V 292.402	-141.3	-0.0002	mg/L	0.00031	-0.0002	mg/L	0.00031	137.73%
Zn 206.200	916.6	-0.0457	mg/L	0.00270	-0.0457	mg/L	0.00270	5.92%
Na 330.237	17081723.0	6496.8	mg/L	215.63	6496.8	mg/L	215.63	3.32%
Cd 226.502	289.2	0.0004	mg/L	0.00000	0.0004	mg/L	0.00000	0.09%
Ti 334.940	-1831.0	0.0006	mg/L	0.00007	0.0006	mg/L	0.00007	11.58%
Ca 227.546	230468.5	253.46	mg/L	1.567	253.46	mg/L	1.567	0.62%

Sequence No.: 41
Sample ID: A1243-41D,3169
Analyst:
Sample Wt:
Dilution:

RMW25

Autosampler Location: 37
Date Collected: 8/27/2002 6:22:45 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1243-41D,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	688.8	-0.0025	mg/L	0.00020	-0.0025	mg/L	0.00020	8.02%
Al 308.215	2500.8	0.0410	mg/L	0.00111	0.0410	mg/L	0.00111	2.70%
As 188.979	-4.7	-0.0011	mg/L	0.00112	-0.0011	mg/L	0.00112	99.48%
Ba 233.527	10271.5	0.0682	mg/L	0.00004	0.0682	mg/L	0.00004	0.06%
Be 313.107	5150.3	0.0005	mg/L	0.00002	0.0005	mg/L	0.00002	3.50%
Co 228.616	1185.7	0.0166	mg/L	0.00003	0.0166	mg/L	0.00003	0.17%
Cr 267.716	82.4	0.0000	mg/L	0.00020	0.0000	mg/L	0.00020	594.53%
Cu 324.752	186.7	-0.0015	mg/L	0.00021	-0.0015	mg/L	0.00021	14.01%

Fe 273.955	145102.9	2.3756 mg/L	0.00766	2.3756 mg/L	0.00766	0.32%
Mg 279.077	38248572.7	578.33 mg/L	4.208	578.33 mg/L	4.208	0.73%
Mn 257.610	686856.1	1.2173 mg/L	0.00095	1.2173 mg/L	0.00095	0.08%
Ni 231.604	357.3	0.0029 mg/L	0.00006	0.0029 mg/L	0.00006	2.15%
Pb 220.353	-112.5	-0.0028 mg/L	0.00020	-0.0028 mg/L	0.00020	7.21%
Sb 206.836	0.0	-0.0008 mg/L	0.00009	-0.0008 mg/L	0.00009	10.45%
Se 196.026	10.9	0.0048 mg/L	0.00166	0.0048 mg/L	0.00166	34.58%
Tl 190.801	-40.3	0.0011 mg/L	0.00011	0.0011 mg/L	0.00011	8.22%
V 292.402	-54.4	-0.0001 mg/L	0.00023	-0.0001 mg/L	0.00023	464.15%
Zn 206.200	825.8	-0.0412 mg/L	0.00036	-0.0412 mg/L	0.00036	0.88%
Na 330.237	15227519.1	5791.6 mg/L	85.95	5791.6 mg/L	85.95	1.48%
Cd 226.502	275.1	0.0004 mg/L	0.00001	0.0004 mg/L	0.00001	3.38%
Ti 334.940	-247.6	0.0014 mg/L	0.00004	0.0014 mg/L	0.00004	2.54%
Ca 227.546	204831.4	225.26 mg/L	0.800	225.26 mg/L	0.800	0.35%

Sequence No.: 42
Sample ID: ICSA1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 8/27/2002 6:27:00 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSA1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-12610.8	-0.0005	mg/L	0.00008	-0.0005	mg/L	0.00008	16.33%
Al 308.215	31175380.4	511.56	mg/L	3.419	511.56	mg/L	3.419	0.67%
As 188.979	-1.6	0.0087	mg/L	0.01025	0.0087	mg/L	0.01025	118.18%
Ba 233.527	1288.8	-0.0010	mg/L	0.00007	-0.0010	mg/L	0.00007	7.27%
Be 313.107	-37.6	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	25.49%
Co 228.616	73.8	0.0001	mg/L	0.00008	0.0001	mg/L	0.00008	107.05%
Cr 267.716	-179.2	0.0019	mg/L	0.00003	0.0019	mg/L	0.00003	1.32%
Cu 324.752	-13238.5	0.0007	mg/L	0.00012	0.0007	mg/L	0.00012	17.32%
Fe 273.955	12636549.8	181.82	mg/L	1.023	181.82	mg/L	1.023	0.56%
Mg 279.077	32538901.8	492.00	mg/L	2.824	492.00	mg/L	2.824	0.57%
Mn 257.610	-7371.4	-0.0133	mg/L	0.00010	-0.0133	mg/L	0.00010	0.79%
Ni 231.604	217.3	0.0018	mg/L	0.00031	0.0018	mg/L	0.00031	16.74%
Pb 220.353	-1665.7	-0.0056	mg/L	0.00155	-0.0056	mg/L	0.00155	27.67%
Sb 206.836	-121.5	0.0159	mg/L	0.00557	0.0159	mg/L	0.00557	35.10%
Se 196.026	-298.7	-0.0245	mg/L	0.00507	-0.0245	mg/L	0.00507	20.67%
Tl 190.801	21.5	0.0051	mg/L	0.00377	0.0051	mg/L	0.00377	73.50%
V 292.402	22.1	-0.0015	mg/L	0.00017	-0.0015	mg/L	0.00017	11.68%
Zn 206.200	6944.3	-0.0097	mg/L	0.00003	-0.0097	mg/L	0.00003	0.26%
Na 330.237	3104.5	0.9284	mg/L	0.06545	0.9284	mg/L	0.06545	7.05%
Cd 226.502	4998.9	0.0024	mg/L	0.00004	0.0024	mg/L	0.00004	1.74%
Ti 334.940	-7458.4	-0.0010	mg/L	0.00010	-0.0010	mg/L	0.00010	9.44%
Ca 227.546	480518.4	527.15	mg/L	1.261	527.15	mg/L	1.261	0.24%

Sequence No.: 43
Sample ID: ICSAB1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 8/27/2002 6:29:39 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	56751.4	0.1763	mg/L	0.00087	0.1763	mg/L	0.00087	0.49%
Al 308.215	30535252.4	501.05	mg/L	1.717	501.05	mg/L	1.717	0.34%
As 188.979	337.6	0.1037	mg/L	0.00334	0.1037	mg/L	0.00334	3.22%
Ba 233.527	78186.1	0.5171	mg/L	0.00003	0.5171	mg/L	0.00003	0.01%
Be 313.107	5737943.0	0.5195	mg/L	0.00124	0.5195	mg/L	0.00124	0.24%
Co 228.616	34699.0	0.4864	mg/L	0.00145	0.4864	mg/L	0.00145	0.30%
Cr 267.716	247489.0	0.5061	mg/L	0.00106	0.5061	mg/L	0.00106	0.21%
Cu 324.752	322980.0	0.5811	mg/L	0.00049	0.5811	mg/L	0.00049	0.08%
Fe 273.955	123474401.9	177.66	mg/L	0.472	177.66	mg/L	0.472	0.27%
Mg 279.077	31669945.6	478.86	mg/L	1.113	478.86	mg/L	1.113	0.23%
Mn 257.610	281592.2	0.5030	mg/L	0.00185	0.5030	mg/L	0.00185	0.37%

Ni 231.604	109886.5	0.9283 mg/L	0.00226	0.9283 mg/L	0.00226	0.24%
Pb 220.353	14730.3	0.4514 mg/L	0.00057	0.4514 mg/L	0.00057	0.13%
Sb 206.836	3272.8	0.5953 mg/L	0.01322	0.5953 mg/L	0.01322	2.22%
Se 196.026	1687.2	0.4853 mg/L	0.00287	0.4853 mg/L	0.00287	0.59%
Tl 190.801	416.8	0.0924 mg/L	0.00733	0.0924 mg/L	0.00733	7.94%
V 292.402	243731.8	0.5097 mg/L	0.00013	0.5097 mg/L	0.00013	0.02%
Zn 206.200	194976.9	0.9349 mg/L	0.00179	0.9349 mg/L	0.00179	0.19%
Na 330.237	134549.8	50.923 mg/L	0.0401	50.923 mg/L	0.0401	0.08%
Cd 226.502	532613.3	0.9301 mg/L	0.00116	0.9301 mg/L	0.00116	0.12%
Ti 334.940	-6935.4	-0.0009 mg/L	0.00005	-0.0009 mg/L	0.00005	6.03%
Ca 227.546	469582.0	515.12 mg/L	0.682	515.12 mg/L	0.682	0.13%

Sequence No.: 44
Sample ID: CCV2
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 8/27/2002 6:32:23 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	506867.5	1.2972	mg/L	0.00828	1.2972	mg/L	0.00828	0.64%
Al 308.215	629691.2	10.333	mg/L	0.0674	10.333	mg/L	0.0674	0.65%
As 188.979	1869.5	0.5088	mg/L	0.00273	0.5088	mg/L	0.00273	0.54%
Ba 233.527	1602425.9	10.772	mg/L	0.0393	10.772	mg/L	0.0393	0.36%
Be 313.107	2855916.3	0.2586	mg/L	0.00072	0.2586	mg/L	0.00072	0.28%
Co 228.616	191623.6	2.6915	mg/L	0.02055	2.6915	mg/L	0.02055	0.76%
Cr 267.716	510184.2	1.0388	mg/L	0.00572	1.0388	mg/L	0.00572	0.55%
Cu 324.752	765553.1	1.3214	mg/L	0.00875	1.3214	mg/L	0.00875	0.66%
Fe 273.955	364434.2	5.2437	mg/L	0.02064	5.2437	mg/L	0.02064	0.39%
Mg 279.077	1732033.5	26.202	mg/L	0.1113	26.202	mg/L	0.1113	0.42%
Mn 257.610	1481434.7	2.6463	mg/L	0.02075	2.6463	mg/L	0.02075	0.78%
Ni 231.604	307970.4	2.6014	mg/L	0.00942	2.6014	mg/L	0.00942	0.36%
Pb 220.353	18112.3	0.5069	mg/L	0.00046	0.5069	mg/L	0.00046	0.09%
Sb 206.836	2944.4	0.5073	mg/L	0.00006	0.5073	mg/L	0.00006	0.01%
Se 196.026	1969.5	0.5060	mg/L	0.00447	0.5060	mg/L	0.00447	0.88%
Tl 190.801	2313.6	0.5109	mg/L	0.00458	0.5109	mg/L	0.00458	0.90%
V 292.402	1235838.8	2.5889	mg/L	0.01443	2.5889	mg/L	0.01443	0.56%
Zn 206.200	525493.0	2.6336	mg/L	0.01152	2.6336	mg/L	0.01152	0.44%
Na 330.237	67130.3	25.488	mg/L	0.2048	25.488	mg/L	0.2048	0.80%
Cd 226.502	146121.4	0.2572	mg/L	0.00078	0.2572	mg/L	0.00078	0.30%
Ti 334.940	1241.9	0.0008	mg/L	0.00008	0.0008	mg/L	0.00008	10.25%
Ca 227.546	23263.6	25.403	mg/L	0.1069	25.403	mg/L	0.1069	0.42%

Sequence No.: 45
Sample ID: CCB2
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 8/27/2002 6:34:57 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-120.3	-0.0003	mg/L	0.00022	-0.0003	mg/L	0.00022	72.60%
Al 308.215	-171.1	-0.0028	mg/L	0.00319	-0.0028	mg/L	0.00319	113.71%
As 188.979	-0.1	0.0000	mg/L	0.00020	0.0000	mg/L	0.00020	938.56%
Ba 233.527	-20.7	-0.0001	mg/L	0.00026	-0.0001	mg/L	0.00026	186.24%
Be 313.107	625.7	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	24.24%
Co 228.616	14.4	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	5.39%
Cr 267.716	72.4	0.0001	mg/L	0.00021	0.0001	mg/L	0.00021	143.96%
Cu 324.752	467.7	0.0008	mg/L	0.00037	0.0008	mg/L	0.00037	45.42%
Fe 273.955	104.8	0.0015	mg/L	0.00066	0.0015	mg/L	0.00066	43.61%
Mg 279.077	201.5	0.0030	mg/L	0.00146	0.0030	mg/L	0.00146	48.00%
Mn 257.610	-77.2	-0.0001	mg/L	0.00007	-0.0001	mg/L	0.00007	49.46%
Ni 231.604	15.5	0.0001	mg/L	0.00010	0.0001	mg/L	0.00010	73.91%
Pb 220.353	-18.3	-0.0005	mg/L	0.00017	-0.0005	mg/L	0.00017	33.07%
Sb 206.836	2.0	0.0005	mg/L	0.00052	0.0005	mg/L	0.00052	109.01%

Se 196.026	3.0	0.0008 mg/L	0.00082	0.0008 mg/L	0.00082	106.05%
Tl 190.801	-4.7	-0.0010 mg/L	0.00000	-0.0010 mg/L	0.00000	0.18%
V 292.402	116.1	0.0002 mg/L	0.00052	0.0002 mg/L	0.00052	214.88%
Zn 206.200	103.8	0.0005 mg/L	0.00036	0.0005 mg/L	0.00036	69.03%
Na 330.237	453.0	0.1723 mg/L	0.02816	0.1723 mg/L	0.02816	16.34%
Cd 226.502	-4.2	0.0000 mg/L	0.00000	0.0000 mg/L	0.00000	17.05%
Ti 334.940	-41.4	0.0000 mg/L	0.00006	0.0000 mg/L	0.00006	223.19%
Ca 227.546	12.3	0.0135 mg/L	0.00589	0.0135 mg/L	0.00589	43.51%

Analysis Begun

Start Time: 8/28/2002 9:11:14 AM
Logged In Analyst: optima2
Spectrometer Model: Optima 3100 XL

Plasma On Time: 8/28/2002 8:46:18 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\pe\administrator\Sample Information\Ev.sif
Results Data Set: A082801
Results Library: d:\pe\administrator\Results\Results.mdb

Method Loaded
Method Name: B 6010
IEC File:
Method Description: Working method

Method Last Saved: 8/20/2002 3:02:23 PM
MSF File:

Sequence No.: 1
Sample ID: S0
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 8/28/2002 9:11:14 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
B 249.772	11621.0	151.01	1.30%	[0.00] mg/L

Sequence No.: 2
Sample ID: S1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 8/28/2002 9:13:50 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
B 249.772	1303202.0	1424.36	0.11%	[5.0] mg/L

Sequence No.: 3
Sample ID: S2
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 8/28/2002 9:16:10 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
B 249.772	670835.1	3436.76	0.51%	[2.5] mg/L

Sequence No.: 4
Sample ID: S3
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 8/28/2002 9:18:29 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
B 249.772	136046.5	173.83	0.13%	[0.5] mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
B 249.772	3	Lin Thru 0	0.0	262300	0.00000	0.999926	

Sequence No.: 5
Sample ID: CHECK
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 8/28/2002 9:20:47 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CHECK

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
B 249.772	1337513.5	5.1000 mg/L	0.01023	5.1000 mg/L	0.01023	0.20%

09/11/02

Sequence No.: 6
Sample ID: ICV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 8/28/2002 9:23:07 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
B 249.772	694673.1	2.6488 mg/L	0.01595	2.6488 mg/L	0.01595	0.60%

Sequence No.: 7
Sample ID: ICB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 8/28/2002 9:25:28 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
B 249.772	3194.8	0.0122 mg/L	0.00078	0.0122 mg/L	0.00078	6.41%

Sequence No.: 8
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 8/28/2002 9:27:49 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
B 249.772	161946.4	0.6175 mg/L	0.00030	0.6175 mg/L	0.00030	0.05%

Sequence No.: 9
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 8/28/2002 9:30:11 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
B 249.772	155937.9	0.5946 mg/L	0.00166	0.5946 mg/L	0.00166	0.28%

Sequence No.: 10
Sample ID: MB-3169,3169
Analyst:
Sample Wt:
Dilution:

PBW

Autosampler Location: 17
Date Collected: 8/28/2002 9:32:35 AM
Sample Prep Volume:
Data Type: Original

Mean Data: MB-3169,3169

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
B 249.772	-4199.2	-0.0160 mg/L	0.00060	-0.0160 mg/L	0.00060	3.72%

Sequence No.: 11
Sample ID: LCS-3169,3169
Analyst:
Sample Wt:
Dilution:

LCSW

Autosampler Location: 18
Date Collected: 8/28/2002 9:34:56 AM
Sample Prep Volume:
Data Type: Original

Mean Data: LCS-3169,3169

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
B 249.772 @ 2.5mg/L	610643.7	2.3284 mg/L	0.00063	2.3284 mg/L	0.00063	0.03%

Sequence No.: 12
Sample ID: A1243-01B,3169
Analyst:
Sample Wt:
Dilution:

MW-6

Autosampler Location: 19
Date Collected: 8/28/2002 9:37:19 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-01B,3169

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
B 249.772	145847.8	0.5561 mg/L	0.00533	0.5561 mg/L	0.00533	0.96%

Sequence No.: 13
Sample ID: A1243-01BDUP,3169
Analyst:
Sample Wt:
Dilution:

MW-6DUP

Autosampler Location: 20
Date Collected: 8/28/2002 9:39:42 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-01BDUP,3169

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
B 249.772	174699.2	0.6661 mg/L	0.00070	0.6661 mg/L	0.00070	0.10%

Sequence No.: 14
Sample ID: A1243-01BMS,3169
Analyst:
Sample Wt:
Dilution:

MW-6MS

Autosampler Location: 21
Date Collected: 8/28/2002 9:42:05 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-01BMS,3169

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
B 249.772 @ 2.5mg/L	761595.7	2.9040 mg/L	0.00726	2.9040 mg/L	0.00726	0.25%

Sequence No.: 15
Sample ID: A1243-01BSD,3169
Analyst:
Sample Wt:
Dilution:

MW-6SD

Autosampler Location: 22
Date Collected: 8/28/2002 9:44:29 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-01BSD,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
B 249.772	31612.2	0.1205	mg/L	0.00158	0.1205	mg/L	0.00158	1.31%

Sequence No.: 16
Sample ID: CCV0
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 8/28/2002 9:46:53 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV0

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
B 249.772	698455.2	2.6632	mg/L	0.01843	2.6632	mg/L	0.01843	0.69%

Sequence No.: 17
Sample ID: CCB0
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 8/28/2002 9:49:14 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB0

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
B 249.772	-253.7	-0.0010	mg/L	0.00037	-0.0010	mg/L	0.00037	38.42%

Sequence No.: 18
Sample ID: A1243-04F,3169 MW-34
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 24
Date Collected: 8/28/2002 9:51:35 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-04F,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
B 249.772	436.2	0.0017	mg/L	0.00013	0.0017	mg/L	0.00013	8.08%

Sequence No.: 19
Sample ID: A1243-07C,3169 MW-8
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 25
Date Collected: 8/28/2002 9:53:52 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-07C,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
B 249.772	137967.0	0.5261	mg/L	0.00603	0.5261	mg/L	0.00603	1.15%

Sequence No.: 20
Sample ID: A1243-11C,3169 MW-35
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 70
Date Collected: 8/28/2002 9:56:09 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-11C,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
B 249.772	-1656.3	-0.0063	mg/L	0.00055	-0.0063	mg/L	0.00055	8.78%

Sequence No.: 21
Sample ID: A1243-17C,3169 13MW11
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 26
Date Collected: 8/28/2002 9:58:32 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-17C,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
B 249.772	79321.7	0.3025	mg/L	0.00139	0.3025	mg/L	0.00139	0.46%

Sequence No.: 22
Sample ID: A1243-18C,3169 13MW33
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 27
Date Collected: 8/28/2002 10:00:50 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-18C,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
B 249.772	78012.7	0.2975	mg/L	0.00043	0.2975	mg/L	0.00043	0.15%

Sequence No.: 23
Sample ID: A1243-20C,3169 EMW36
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 28
Date Collected: 8/28/2002 10:03:08 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-20C,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
B 249.772	-4893.9	-0.0187	mg/L	0.00004	-0.0187	mg/L	0.00004	0.19%

Sequence No.: 24
Sample ID: A1243-24C,3169 GMW39
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 29
Date Collected: 8/28/2002 10:05:27 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-24C,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
B 249.772	1114321.5	4.2490	mg/L	0.01177	4.2490	mg/L	0.01177	0.28%

Sequence No.: 25
Sample ID: ICSA1
Analyst:
Sample Wt:
Dilution: 4/1/02
Autosampler Location: 5
Date Collected: 8/28/2002 10:07:48 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSA1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
B 249.772	164521.2	0.6273	mg/L	0.00041	0.6273	mg/L	0.00041	0.07%

Sequence No.: 26
Sample ID: ICSAB1
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 6
Date Collected: 8/28/2002 10:10:10 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB1 4/1/02

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
B 249.772	156979.8	0.5986	mg/L	0.00086	0.5986	mg/L	0.00086	0.14%

Sequence No.: 27
Sample ID: CCV1
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 8/28/2002 10:12:34 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
B 249.772	673094.8	2.5665	mg/L	0.01735	2.5665	mg/L	0.01735	0.68%

Sequence No.: 28
Sample ID: CCB1
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 8/28/2002 10:14:54 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
B 249.772	-1032.5	-0.0039	mg/L	0.00039	-0.0039	mg/L	0.00039	9.94%

Sequence No.: 29
Sample ID: A1243-28C,3169 3MW37
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 30
Date Collected: 8/28/2002 10:17:15 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-28C,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
B 249.772	174507.9	0.6654	mg/L	0.00279	0.6654	mg/L	0.00279	0.42%

Sequence No.: 30
Sample ID: A1243-33D,3169 12MW17
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 31
Date Collected: 8/28/2002 10:19:34 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-33D,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
B 249.772	387924.7	1.4792	mg/L	0.00259	1.4792	mg/L	0.00259	0.17%

Sequence No.: 31
Sample ID: A1243-34D,3169 MW4
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 32
Date Collected: 8/28/2002 10:21:54 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-34D,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
B 249.772	156677.6	0.5974	mg/L	0.00167	0.5974	mg/L	0.00167	0.28%

Sequence No.: 32
Sample ID: A1243-37D,3169 MW37
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 33
Date Collected: 8/28/2002 10:24:16 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-37D,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
B 249.772	-3764.0	-0.0144	mg/L	0.00055	-0.0144	mg/L	0.00055	3.80%

Sequence No.: 33
Sample ID: A1243-38D,3169 MW10
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 34
Date Collected: 8/28/2002 10:26:37 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-38D,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
B 249.772	58485.1	0.2230	mg/L	0.00030	0.2230	mg/L	0.00030	0.13%

Sequence No.: 34
Sample ID: A1243-39D,3169 MW16
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 35
Date Collected: 8/28/2002 10:28:58 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-39D,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
B 249.772	148303.9	0.5655	mg/L	0.00022	0.5655	mg/L	0.00022	0.04%

Sequence No.: 35
Sample ID: A1243-40D,3169 12MW20
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 36
Date Collected: 8/28/2002 10:31:20 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-40D,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
B 249.772	612059.0	2.3338	mg/L	0.01446	2.3338	mg/L	0.01446	0.62%

Sequence No.: 36
Sample ID: A1243-41D,3169 12MW25
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 37
Date Collected: 8/28/2002 10:33:44 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-41D,3169

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
B 249.772	580054.2	2.2118	mg/L	0.00733	2.2118	mg/L	0.00733	0.33%

Sequence No.: 37
Sample ID: ICSA1
Analyst:
Sample Wt:
Autosampler Location: 5
Date Collected: 8/28/2002 10:36:08 AM
Sample Prep Volume:

Method: B 6010 | Page 8 | Date: 8/28/2002 10:44:35 AM

Dilution: | Data Type: Original

Mean Data: ICSA1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
B 249.772	157832.1	0.6018 mg/L	0.00197	0.6018 mg/L	0.00197	0.33%

Sequence No.: 38
Sample ID: ICSAB1
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 6
Date Collected: 8/28/2002 10:38:30 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
B 249.772	154036.6	0.5873 mg/L	0.00056	0.5873 mg/L	0.00056	0.10%

Sequence No.: 39
Sample ID: CCV2
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 8/28/2002 10:40:54 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV2

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
B 249.772	691925.9	2.6383 mg/L	0.01557	2.6383 mg/L	0.01557	0.59%

Sequence No.: 40
Sample ID: CCB2
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 8/28/2002 10:43:14 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB2

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
B 249.772	-1599.5	-0.0061 mg/L	0.00060	-0.0061 mg/L	0.00060	9.80%

000906

H082718

Method Name: HG_COMM
Method Description: Hgcomm
Element: Hg

A1271-01 A1243-SD61
A1272-04 Good Batch Er 9/3/02
A1290-1-3

OK w 8/27/02

Date: 08/27/2002
Technique: FI-MHS
Calibration Type:
Hg, Zero Intercept: Linear
Wavelength: 253.7 nm
Sample Info Name: EVAN.SIF
Results Data Set Name: H082701

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 08/27/2002
Sample ID: S0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0004	0.0012	0.0004	12:06:49	Yes
2			0.0005	0.0018	0.0005	12:07:19	Yes
Mean:			0.0005				
SD :			0.0000				
%RSD:			9.9858				

Auto-zero performed.

Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 08/27/2002
Sample ID: S0.2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0027	0.0143	0.0032	12:08:09	Yes
2			0.0028	0.0144	0.0032	12:08:38	Yes
Mean:			0.0028				
SD :			0.0001				
%RSD:			2.2226				

[Hg] Standard number 1 applied. [0.20]
Correlation Coefficient: 1.00000 Slope: 0.01375

Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 08/27/2002
Sample ID: S1.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0151	0.0713	0.0156	12:09:29	Yes
2			0.0155	0.0743	0.0160	12:09:58	Yes
Mean:			0.0153				
SD :			0.0003				
%RSD:			1.8377				

[Hg] Standard number 2 applied. [1.00]
Correlation Coefficient: 0.99938 Slope: 0.01525

Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 08/27/2002
Sample ID: S2.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0295	0.1381	0.0300	12:10:49	Yes
2			0.0295	0.1375	0.0299	12:11:18	Yes
Mean:			0.0295				
SD :			0.0000				
%RSD:							

[Hg] Standard number 3 applied. [2.00]
Correlation Coefficient: 0.99959 Slope: 0.01485

000907

Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 08/27/2002
Sample ID: S5.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0752	0.3541	0.0756	12:12:09	Yes
2			0.0753	0.3531	0.0758	12:12:39	Yes
Mean:			0.0752				
SD :			0.0001				
%RSD:			0.1319				

[Hg] Standard number 4 applied. [5.00]
Correlation Coefficient: 0.99992 Slope: 0.01502

Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 08/27/2002
Sample ID: S10.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.1479	0.6965	0.1484	12:13:30	Yes
2			0.1478	0.6938	0.1483	12:14:00	Yes
Mean:			0.1479				
SD :			0.0001				
%RSD:							

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99994 Slope: 0.01484

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
S0	0.0005	--	----	----	----
S0.2	0.0027	0.20	0.19	0.000	2.2
S1.0	0.0153	1.00	1.03	0.000	1.8
S2.0	0.0295	2.00	1.99	0.000	----
S5.0	0.0752	5.00	5.07	0.000	0.1
S10.0	0.1479	10.00	9.96	0.000	----

Correlation Coefficient: 0.99994 Slope: 0.01484 ----

Element: Hg Seq. No.: 7 AS Loc.: 7 Date: 08/27/2002
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.91	4.91	0.0728	0.3422	0.0733	12:14:50	Yes
2	4.91	4.91	0.0728	0.3423	0.0733	12:15:19	Yes
Mean:	4.91	4.91	0.0728				
SD :	0.001	0.001	0.0000				
%RSD:							

QC value within specified limits.

Element: Hg Seq. No.: 8 AS Loc.: 1 Date: 08/27/2002
Sample ID: ICB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0000	0.0008	0.0004	12:16:11	Yes
2	0.00	0.00	0.0000	0.0010	0.0005	12:16:40	Yes
Mean:	0.00	0.00	0.0000				
SD :	0.002	0.002	0.0000				
%RSD:	414.9	414.9	414.8778				

QC value within specified limits.

000908

Element: Hg Seq. No.: 9 AS Loc.: 9 Date: 08/27/2002
Sample ID: MB-3172 0.60g

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0003	-0.0003	0.0001	12:17:30	Yes
2	-0.03	-0.03	-0.0004	-0.0008	0.0001	12:17:59	Yes
Mean:	-0.02	-0.02	-0.0004				
SD :	0.003	0.003	0.0000				
%RSD:	10.8	10.8	10.8486				

Element: Hg Seq. No.: 10 AS Loc.: 10 Date: 08/27/2002
Sample ID: LCS-3172 0.60g 104%

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.72	4.72	0.0700	0.3167	0.0705	12:18:49	Yes
2	4.72	4.72	0.0700	0.3169	0.0704	12:19:18	Yes
Mean:	4.72	4.72	0.0700				
SD :	0.001	0.001	0.0000				
%RSD:							

Element: Hg Seq. No.: 11 AS Loc.: 11 Date: 08/27/2002
Sample ID: A1271-01A 0.60g MW-6

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.15	0.15	0.0022	0.0118	0.0027	12:20:09	Yes
2	0.14	0.14	0.0021	0.0106	0.0025	12:20:38	Yes
Mean:	0.14	0.14	0.0021				
SD :	0.006	0.006	0.0001				
%RSD:	3.8	3.8	3.8079				

9/30/02

Element: Hg Seq. No.: 12 AS Loc.: 12 Date: 08/27/2002
Sample ID: A1272-04A 0.63g ~~MW-6~~ MW-34

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0001	-0.0004	0.0003	12:21:28	Yes
2	0.00	0.00	0.0000	0.0023	0.0005	12:21:57	Yes
Mean:	0.00	0.00	-0.0001				
SD :	0.008	0.008	0.0001				
%RSD:	221.3	221.3	221.3419				

Element: Hg Seq. No.: 13 AS Loc.: 13 Date: 08/27/2002
Sample ID: A1272-04ADUP 0.63g

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0001	0.0019	0.0005	12:22:47	Yes
2	0.01	0.01	0.0001	0.0025	0.0006	12:23:17	Yes
Mean:	0.01	0.01	0.0001				
SD :	0.003	0.003	0.0000				
%RSD:	55.5	55.5	55.5170				

Element: Hg Seq. No.: 14 AS Loc.: 14 Date: 08/27/2002
Sample ID: A1272-04AMS 0.63g 105%

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.78	4.78	0.0709	0.3200	0.0714	12:24:07	Yes
2	4.78	4.78	0.0710	0.3212	0.0714	12:24:36	Yes
Mean:	4.78	4.78	0.0709				

000909

SD : 0.003 0.003 0.0000
%RSD:

Element: Hg Seq. No.: 15 AS Loc.: 15 Date: 08/27/2002
Sample ID: A1280-01A 0.63g

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.11	0.11	0.0016	0.0082	0.0021	12:25:29	Yes
2	0.12	0.12	0.0018	0.0108	0.0022	12:26:01	Yes
Mean:	0.11	0.11	0.0017				
SD :	0.007	0.007	0.0001				
%RSD:	6.3	6.3	6.3438				

Element: Hg Seq. No.: 16 AS Loc.: 16 Date: 08/27/2002
Sample ID: A1280-02A 0.60g

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.06	0.06	0.0009	0.0068	0.0014	12:26:51	Yes
2	0.06	0.06	0.0008	0.0056	0.0013	12:27:20	Yes
Mean:	0.06	0.06	0.0009				
SD :	0.003	0.003	0.0000				
%RSD:	5.6	5.6	5.5695				

Element: Hg Seq. No.: 17 AS Loc.: 7 Date: 08/27/2002
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.95	4.95	0.0735	0.3438	0.0739	12:28:11	Yes
2	4.93	4.93	0.0731	0.3421	0.0736	12:28:40	Yes
Mean:	4.94	4.94	0.0733				
SD :	0.016	0.016	0.0002				
%RSD:	0.3	0.3	0.3218				

QC value within specified limits.

Element: Hg Seq. No.: 18 AS Loc.: 1 Date: 08/27/2002
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0003	-0.0012	0.0002	12:29:32	Yes
2	-0.01	-0.01	-0.0002	0.0007	0.0003	12:30:01	Yes
Mean:	-0.02	-0.02	-0.0002				
SD :	0.006	0.006	0.0001				
%RSD:	38.1	38.1	38.0597				

QC value within specified limits.

Element: Hg Seq. No.: 19 AS Loc.: 17 Date: 08/27/2002
Sample ID: A1280-03A 0.71g

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.03	0.03	0.0005	0.0040	0.0010	12:30:51	Yes
2	0.03	0.03	0.0005	0.0036	0.0009	12:31:21	Yes
Mean:	0.03	0.03	0.0005				
SD :	0.002	0.002	0.0000				
%RSD:	6.7	6.7	6.7304				

Element: Hg Seq. No.: 20 AS Loc.: 18 Date: 08/27/2002

000910

Sample ID: MB-3170 PBW

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0003	0.0007	0.0001	12:32:11	Yes
2	-0.03	-0.03	-0.0004	-0.0004	0.0000	12:32:40	Yes
Mean:	-0.02	-0.02	-0.0004				
SD :	0.005	0.005	0.0001				
%RSD:	20.2	20.2	20.1811				

Element: Hg Seq. No.: 21 AS Loc.: 19 Date: 08/27/2002
Sample ID: LCS-3170 95% LCSW

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.31	4.31	0.0639	0.2957	0.0644	12:33:30	Yes
2	4.31	4.31	0.0640	0.2944	0.0645	12:33:59	Yes
Mean:	4.31	4.31	0.0640				
SD :	0.005	0.005	0.0001				
%RSD:	0.1	0.1	0.1199				

Element: Hg Seq. No.: 22 AS Loc.: 20 Date: 08/27/2002
Sample ID: A1243-01B 128mL MW-6

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0001	0.0010	0.0003	12:34:49	Yes
2	-0.01	-0.01	-0.0001	0.0015	0.0003	12:35:19	Yes
Mean:	-0.01	-0.01	-0.0001				
SD :	0.001	0.001	0.0000				
%RSD:	16.5	16.5	16.4938				

Element: Hg Seq. No.: 23 AS Loc.: 21 Date: 08/27/2002
Sample ID: A1243-04F 144mL MW-34

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0003	0.0007	0.0001	12:36:09	Yes
2	-0.02	-0.02	-0.0003	0.0011	0.0002	12:36:38	Yes
Mean:	-0.02	-0.02	-0.0003				
SD :	0.002	0.002	0.0000				
%RSD:	8.7	8.7	8.7303				

Element: Hg Seq. No.: 24 AS Loc.: 22 Date: 08/27/2002
Sample ID: A1243-07C 144mL MW-3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.03	-0.03	-0.0004	-0.0010	0.0000	12:37:28	Yes
2	-0.03	-0.03	-0.0004	-0.0003	0.0001	12:37:57	Yes
Mean:	-0.03	-0.03	-0.0004				
SD :	0.001	0.001	0.0000				
%RSD:	5.4	5.4	5.3847				

Element: Hg Seq. No.: 25 AS Loc.: 23 Date: 08/27/2002
Sample ID: A1243-11C 140mL MW-35

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0003	0.0009	0.0002	12:38:47	Yes
2	-0.03	-0.03	-0.0004	-0.0008	0.0001	12:39:17	Yes
Mean:	-0.02	-0.02	-0.0003				

000911

SD : 0.004 0.004 0.0001
%RSD: 19.2 19.2 19.2040

Element: Hg Seq. No.: 26 AS Loc.: 24 Date: 08/27/2002
Sample ID: A1243-17C 138mL BMW11

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	-0.0001	0.0012	0.0004	12:40:07	Yes
2	0.00	0.00	0.0000	0.0021	0.0004	12:40:36	Yes
Mean:	0.00	0.00	0.0000				
SD :	0.002	0.002	0.0000				
%RSD:	53.1	53.1	53.1247				

Element: Hg Seq. No.: 27 AS Loc.: 7 Date: 08/27/2002
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.97	4.97	0.0737	0.3437	0.0742	12:41:28	Yes
2	4.95	4.95	0.0734	0.3412	0.0739	12:41:58	Yes
Mean:	4.96	4.96	0.0736				
SD :	0.014	0.014	0.0002				
%RSD:	0.3	0.3	0.2762				

QC value within specified limits.

Element: Hg Seq. No.: 28 AS Loc.: 1 Date: 08/27/2002
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0001	0.0008	0.0003	12:42:50	Yes
2	0.00	0.00	0.0000	0.0024	0.0004	12:43:19	Yes
Mean:	-0.01	-0.01	-0.0001				
SD :	0.005	0.005	0.0001				
%RSD:	82.6	82.6	82.6043				

QC value within specified limits.

Element: Hg Seq. No.: 29 AS Loc.: 25 Date: 08/27/2002
Sample ID: A1243-18C 144mL BMW33

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0000	0.0017	0.0004	12:44:11	Yes
2	-0.01	-0.01	-0.0001	0.0007	0.0003	12:44:40	Yes
Mean:	-0.01	-0.01	-0.0001				
SD :	0.005	0.005	0.0001				
%RSD:	75.1	75.1	75.1119				

Element: Hg Seq. No.: 30 AS Loc.: 26 Date: 08/27/2002
Sample ID: A1243-20C 136mL EMW36

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0001	0.0018	0.0004	12:45:30	Yes
2	-0.01	-0.01	-0.0002	0.0010	0.0003	12:45:59	Yes
Mean:	-0.01	-0.01	-0.0001				
SD :	0.004	0.004	0.0001				
%RSD:	44.9	44.9	44.9132				

Element: Hg Seq. No.: 31 AS Loc.: 27 Date: 08/27/2002

000912

Prep Logbooks

1. ICP
2. Mercury

000917

A1243 - SDG1

Date	Bottle No.	Sample ID		Client ID	Sample Vol (ml) Wt (g)	Conc. H_2SO_4 (ml)	Conc. HNO_3 (ml)	5% $KMnO_4$ (ml)	5% K_2SO_4 (ml)	Aqua-regia (ml)	Final Volume (ml)	Comments	Analyst
9/17/02	848	S0		n/a	100	5.0	2.5	15.0	8.0	N/a	100		JPC
	414	S0.2			0.2/100							JI020821A	
	40W	S1.0			0.2/100								
	4	S2.0			0.4/100								
	16B	S5.0			1.0/100								
	5E	S10.0			2.0/100							JI020821A	
	152	ICV			1.0/100							JI020821B 1.0ml	
	142	MB3170 0927	PBW		100								
	9	LCS3170	LCSW		1.0/100						100		
	10	A1243-	01B		100						128		
	46		04F								144		
	4/44 PE		07C								144		
	27K		11C								140		
	10T		17C								138		
	178		18C								144		
9/17/02	103C	A1243	20C	N/A	100	5.0	2.5	15.0	8.0	n/a	136		JPC

Waters In: 9 15 Out: 11 15 Matrix: Aqueous

Soils In: ____ In: ____ Out: ____ Out: ____ Matrix: Soil/Solid

LCSS JI020827A 1ml

Spike JI020827B 1ml

SOP# I12

Temp: 95 °C

H_2SO_4 Lot # 3101070

HNO_3 Lot # 1101050

HCl Lot # 1107020

KMnO4 Lot # 0123?

K2S2O8 Lot# 0114?

Method # 7470A

000920

Logbook ID: 100.0128-1/02

Reviewed by:

Logbook Page 0083

MITKEM CORPORATION: Aqueous Metals Preparation Logbook

1243 SDG1

Date	Sample ID		Client ID	Sample Vol (ml)	pH	Sample Color Before	Clarity Before	Conc. HNO_3 (ml)	Conc. HCl (ml)	1:1 HCl (ml)	Sample Color After	Sample Clarity After	Final Volume (ml)	Comments	Analys
8/27/02	MB-3169 0927	PBW1	n/a	50	n/a	n/a	n/a	1.0	2.5	n/a	n/a	n/a	50		JR
		PBW2													
	MB-3169	LCSW													
	0927	LCSW2			n/a										
	A1243-	01B			~4										
		01B	Dup		~4										
		01B	SPK		~4										
		04F			~4										
		07C			~4										
		11C			~4										
		17C			<2										
		18C													
		20C													
		24C													
		28C													
		35C													
8/27/02	A1243	36D	n/a	50	<2	n/a	n/a	1.0	2.5	n/a	n/a	n/a	50		JR

HCl Lot# 4107020

HNO3 Lot# 1101050

Method: 3005A

Digestion Temp: 95 0C

LCSS/Spike ID: JI020826B 450µl; JI020827A 450µl; JI020822C, JI020822B 45µl each

SOP#: I08

000918

Logbook ID 100.0125-1/02

Reviewed By: ____

Logbook page 000036

MITKEM CORPORATION

* Metals *

"B"

000922

MITKEM CORPORATION: Aqueous Metals Preparation Logbook

Date	Sample ID		Client ID	Sample Vol (ml)	pH	Sample Color Before	Clarity Before	Conc. HNO_3 (ml)	Conc. HCl (ml)	1:1 HCl (ml)	Sample Color After	Sample Clarity After	Final Volume (ml)	Comments	Analys
8/27/02	A1243-	37D	n/a	50	<2	n/a	n/a	1.0	2.5	n/a	n/a	n/a	50		JPC
		37D	Dup												
		37D	SPK												
		38C													
		39D													
		40D													
8/27/02	A1243	41C	n/a	50	<2	n/a	n/a	1.0	2.5	n/a	n/a	n/a	50		JPC

JR 8/27/02

HCl Lot# 4107020

HNO3 Lot# 1101050

Method: 3005A

Digestion Temp: 95 0C

LCSS/Spike ID: ____

SOP#: I08

000919

Logbook ID 100.0125-1/02

Reviewed By: ____

Logbook page 000037

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

SOW No.: ILM04.0

EPA Sample No.	Lab Sample ID
MW-13	A1243-15C
MW-15	A1243-06C
MW-19D	A1243-03D
MW-19M	A1243-02D
MW-19MD	A1243-02DD
MW-19MS	A1243-02DS
MW-26	A1243-16C
MW-28	A1243-12B
MW-30	A1243-10C
MW-7	A1243-08C
MW-9	A1243-14A

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES

If yes - were raw data generated before application of background corrections ? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name:

Date: 7/10/02 Title:

COVER PAGE - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-13

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

Matrix (soil/water): WATER Lab Sample ID: A1243-15C

Level (low/med): MED Date Received: 08/21/02

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	125	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	4.5	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	5480			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	4.3	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-13

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

Matrix (soil/water): WATER Lab Sample ID: A1243-15C

Level (low/med): MED Date Received: 08/21/02

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	638			P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-15

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

Matrix (soil/water): WATER Lab Sample ID: A1243-06C

Level (low/med): MED Date Received: 08/21/02

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	7.4	B		P
7440-39-3	Barium	62.2	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.1	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	420			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	3.9	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-15

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-06C
Level (low/med): MED Date Received: 08/21/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	697			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-19D

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-03D
Level (low/med): MED Date Received: 08/20/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	335			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	52.8			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	41.9			P
7439-89-6	Iron				NR
7439-92-1	Lead	9.1	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	4940			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	37.4	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	38.3	B		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-19D

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-03D
Level (low/med): MED Date Received: 08/20/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	852			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-19M

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-02D
Level (low/med): MED Date Received: 08/20/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	296			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	24.1			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	13.5	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	2.0	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	6580			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	22.4	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-19M

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-02D
Level (low/med): MED Date Received: 08/20/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	756			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-26

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-16C
Level (low/med): MED Date Received: 08/21/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	128	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	5630			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	3.5	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-26

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-16C
Level (low/med): MED Date Received: 08/21/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	668			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-28

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-12B
Level (low/med): MED Date Received: 08/21/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.3	B		P
7440-39-3	Barium	52.6	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	5050			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	4.6	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-28

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-12B
Level (low/med): MED Date Received: 08/21/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	413	B		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-30

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-10C
Level (low/med): MED Date Received: 08/20/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	6.6	B		P
7440-39-3	Barium	52.5	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	2140			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	2.4	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-30

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-10C
Level (low/med): MED Date Received: 08/20/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	493	B		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-7

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-08C
Level (low/med): MED Date Received: 08/21/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.4	B		P
7440-39-3	Barium	58.3	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	8.7	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	3.4	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	4000			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	6.4	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-7

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-08C
Level (low/med): MED Date Received: 08/21/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	472	B		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-9

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-14A
Level (low/med): MED Date Received: 08/21/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	14.9	B		P
7440-39-3	Barium	70.8	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	960			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	2.2	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-9

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-14A
Level (low/med): MED Date Received: 08/21/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	5110			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Initial Calibration Source: INORG_VENTURES
Continuing Calibration Source: INORG_VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									
Antimony									
Arsenic	500.0	500.71	100.1	500.0	488.72	97.7	497.73	99.5	P
Barium	10000.0	10552.57	105.5	10000.0	10336.76	103.4	10420.02	104.2	P
Beryllium									
Cadmium	250.0	253.40	101.4	250.0	248.95	99.6	249.85	99.9	P
Calcium									
Chromium	1000.0	1024.16	102.4	1000.0	1003.76	100.4	1007.24	100.7	P
Cobalt									
Copper	1250.0	1313.78	105.1	1250.0	1285.18	102.8	1291.96	103.4	P
Iron									
Lead	500.0	485.77	97.2	500.0	483.44	96.7	482.85	96.6	P
Magnesium									
Manganese	2500.0	2652.68	106.1	2500.0	2622.66	104.9	2618.39	104.7	P
Mercury	5.0	5.01	100.2	5.0	5.02	100.4	5.15	103.0	CV
Nickel	2500.0	2510.54	100.4	2500.0	2457.82	98.3	2486.69	99.5	P
Potassium									
Selenium	500.0	503.39	100.7	500.0	501.42	100.3	500.08	100.0	P
Silver	1250.0	1303.30	104.3	1250.0	1281.41	102.5	1278.45	102.3	P
Sodium									
Thallium									
Vanadium									
Zinc	2500.0	2574.40	103.0	2500.0	2530.29	101.2	2541.06	101.6	P
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

Form II (PART 1) - IN SW846

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

Initial Calibration Source:

Continuing Calibration Source: INORG_VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony									
Arsenic				500.0	505.13	101.0			P
Barium				10000.0	10513.68	105.1			P
Beryllium									
Cadmium				250.0	250.57	100.2			P
Calcium									
Chromium				1000.0	1010.82	101.1			P
Cobalt									
Copper				1250.0	1297.67	103.8			P
Iron									
Lead				500.0	492.91	98.6			P
Magnesium									
Manganese				2500.0	2619.45	104.8			P
Mercury									
Nickel				2500.0	2510.30	100.4			P
Potassium									
Selenium				500.0	511.14	102.2			P
Silver				1250.0	1276.42	102.1			P
Sodium									
Thallium									
Vanadium									
Zinc				2500.0	2550.41	102.0			P
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

Initial Calibration Source: INORG_VENTURES

Continuing Calibration Source: INORG_VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Boron	2500.0	2437.49	97.5	2500.0	2390.29	95.6	2376.66	95.1	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

Initial Calibration Source:

Continuing Calibration Source: INORG_VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Boron				2500.0	2353.04	94.1			P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Barium	3.0	U	3.0	U	3.2	B	3.0	U	3.000	U	P
Beryllium											
Cadmium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Calcium											
Chromium	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Cobalt											
Copper	-2.5	B	-5.2	B	-5.8	B	-6.0	B	2.000	U	P
Iron											
Lead	-2.8	B	-3.1	B	-3.2	B	-3.2	B	-2.835	B	P
Magnesium											
Manganese	2.0	U	2.8	B	2.4	B	2.0	U	2.396	B	P
Mercury	0.1	U	0.1	U	0.1	U			0.100	U	CV
Nickel	0.5	B	0.6	B	0.8	B	0.5	U	0.707	B	P
Potassium											
Selenium	8.0	U	8.0	U	8.0	U	8.0	U	8.000	U	P
Silver	-2.8	B	-2.4	B	-2.7	B	-3.0	B	-2.792	B	P
Sodium											
Thallium											
Vanadium											
Zinc	-28.4	B	-28.7	B	-28.4	B	-28.8	B	-28.110	B	P
Cyanide											

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B_

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Boron	130.0	U	130.0	U	130.0	U	130.0	U	130.000	U	P

FORM III - IN SW846

U.S. EPA - CLP

4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

ICP ID Number: OPTIMA_2A ICS Source: HIGH_PURITY

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum								
Antimony								
Arsenic		100		86.3	86.3		89.6	89.6
Barium		500		508.3	101.7		509.7	101.9
Beryllium								
Cadmium		1000		917.2	91.7		911.6	91.2
Calcium								
Chromium		500		496.3	99.3		494.5	98.9
Cobalt								
Copper		500		584.2	116.8		580.9	116.2
Iron								
Lead		500		436.2	87.2		432.1	86.4
Magnesium								
Manganese		500		509.9	102.0		505.8	101.2
Mercury								
Nickel		1000		888.9	88.9		899.1	89.9
Potassium								
Selenium		500		481.9	96.4		490.4	98.1
Silver		200		177.0	88.5		173.9	87.0
Sodium								
Thallium								
Vanadium								
Zinc		1000		901.7	90.2		898.1	89.8

FORM IV - IN SW846

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.
MW-19MS

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B_

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury	75-125	4.1370		0.1320	U	4.55	90.9		CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

Form V (Part 1) - IN SW846

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.
MW-19MD

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead								NR
Magnesium								NR
Manganese								NR
Mercury		0.1320	U	0.1380	U			CV
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

FORM VI - IN SW846

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

Solid LCS Source:

Aqueous LCS Source: HIGH_PURITY

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic	455.0	446.7	98.2						
Barium	9100.0	9536.8	104.8						
Beryllium									
Cadmium	227.0	226.0	99.6						
Calcium									
Chromium	910.0	940.0	103.3						
Cobalt									
Copper	1130.0	1173.3	103.8						
Iron									
Lead	455.0	441.0	96.9						
Magnesium									
Manganese	2270.0	2443.8	107.7						
Mercury	4.6	4.6	100.0						
Nickel	2270.0	2283.8	100.6						
Potassium									
Selenium	455.0	451.0	99.1						
Silver	1130.0	1179.1	104.3						
Sodium									
Thallium									
Vanadium									
Zinc	2270.0	2359.4	103.9						
Cyanide									

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

Solid LCS Source:

Aqueous LCS Source: HIGH_PURITY

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Boron	2250.0	2170.0	96.4						

U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

ICP ID Number: OPTIMA_2A Date: 02/01/02

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			20		NR
Arsenic	188.98		20	3.0	P
Barium	233.53		200	3.0	P
Beryllium			6		NR
Cadmium	226.50		6	2.0	P
Calcium			800		NR
Chromium	267.72		20	3.0	P
Cobalt			50		NR
Copper	324.75		30	2.0	P
Iron			200		NR
Lead	220.35		10	1.0	P
Magnesium			500		NR
Manganese	257.61		50	2.0	P
Mercury			1.0		NR
Nickel	231.60		50	0.5	P
Potassium			1000		NR
Selenium	196.03		30	8.0	P
Silver	328.07		30	2.0	P
Sodium			1000		NR
Thallium			20		NR
Vanadium			50		NR
Zinc	206.20		50	8.0	P
Cyanide			20		NR

Comments:

U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

ICP ID Number: OPTIMA_2A Date: 02/01/02

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Boron	249.77		500	130.0	P

Comments:

U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

ICP ID Number: Date: 02/01/02

Flame AA ID Number: COMM_FIMS

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	253.70		0.2	0.1	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide			20		NR

Comments:

U.S. EPA - CLP

11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

ICP ID Number: OPTIMA_2A Date: 05/08/02

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	CR
Aluminum						
Antimony						
Arsenic	188.98	0.0000170	0.0000000	-0.0001048	0.0000000	-0.0096695
Barium	233.53	0.0000000	0.0000029	0.0000446	0.0000000	0.0000455
Beryllium						
Cadmium	226.50	0.0000000	0.0000000	0.0000420	0.0000000	0.0000000
Calcium						
Chromium	267.72	0.0000000	0.0000000	-0.0000125	0.0000000	0.0000000
Cobalt						
Copper	324.75	0.0000081	0.0000028	-0.0001402	0.0000000	0.0000000
Iron						
Lead	220.35	-0.0000778	-0.0000082	0.0000199	0.0000022	-0.0000409
Magnesium						
Manganese	257.61	-0.0000082	0.0000000	-0.0000520	0.0000169	-0.0001468
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium						
Selenium	196.03	0.0000156	0.0000000	-0.0002838	-0.0000040	-0.0000646
Silver	328.07	0.0000000	0.0000215	-0.0002382	0.0000000	0.0000208
Sodium						
Thallium						
Vanadium						
Zinc	206.20	-0.0000032	-0.0000040	-0.0000188	0.0000654	-0.0016320
Boron						

Comments:

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

ICP ID Number: OPTIMA_2A Date: 05/08/02

Analyte	Wave-length (nm)	Interelement Correction Factors for: CU	MN	NI	TI	TL
Aluminum						
Antimony						
Arsenic	188.98	0.0000000	0.0000757	0.0000000	-0.0004275	0.0000000
Barium	233.53	0.0000000	0.0000744	-0.0001113	0.0000000	0.0000000
Beryllium						
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium						
Chromium	267.72	0.0000284	0.0001891	0.0000000	0.0000000	0.0000000
Cobalt						
Copper	324.75	0.0000000	0.0012456	0.0001853	0.0008354	0.0002487
Iron						
Lead	220.35	-0.0000208	0.0001613	-0.0002934	-0.0005853	0.0000000
Magnesium						
Manganese	257.61	0.0000373	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000891	0.0000000	0.0002885	0.0001038
Potassium						
Selenium	196.03	0.0000230	0.0008214	0.0000631	0.0001602	0.0000856
Silver	328.07	0.0000524	0.0000000	0.0000000	0.0000000	0.0000000
Sodium						
Thallium						
Vanadium						
Zinc	206.20	0.0000000	0.0001798	-0.0000590	0.0009483	-0.0001373
Boron						

Comments:

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

ICP ID Number: OPTIMA_2A Date: 05/08/02

Analyte	Wave-length (nm)	Interelement Correction Factors for: V				
Aluminum						
Antimony						
Arsenic	188.98	0.0000769				
Barium	233.53	-0.0023189				
Beryllium						
Cadmium	226.50	0.0000000				
Calcium						
Chromium	267.72	-0.0002218				
Cobalt						
Copper	324.75	0.0000000				
Iron						
Lead	220.35	-0.0000323				
Magnesium						
Manganese	257.61	0.0000273				
Mercury						
Nickel	231.60	0.0000231				
Potassium						
Selenium	196.03	0.0002038				
Silver	328.07	-0.0004794				
Sodium						
Thallium						
Vanadium						
Zinc	206.20	0.0000315				
Boron						

Comments:

U.S. EPA - CLP

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

ICP ID Number: OPTIMA_2A Date: 07/01/02

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum			NR
Antimony			NR
Arsenic	0.20	25000	P
Barium	0.20	50000	P
Beryllium			NR
Cadmium	0.20	10000	P
Calcium			NR
Chromium	0.20	50000	P
Cobalt			NR
Copper	0.20	25000	P
Iron			NR
Lead	0.20	100000	P
Magnesium			NR
Manganese	0.20	25000	P
Mercury			NR
Nickel	0.20	100000	P
Potassium			NR
Selenium	0.20	25000	P
Silver	0.20	2500	P
Sodium			NR
Thallium			NR
Vanadium			NR
Zinc	0.20	25000	P

Comments:

FORM XII - IN SW846

U.S. EPA - CLP

13

PREPARATION LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	08/28/02		50
MW-13	08/28/02		50
MW-15	08/28/02		50
MW-19D	08/28/02		50
MW-19M	08/28/02		50
MW-26	08/28/02		50
MW-28	08/28/02		50
MW-30	08/28/02		50
MW-7	08/28/02		50
MW-9	08/28/02		50
PBW	08/28/02		50

FORM XIII - IN SW846

U.S. EPA - CLP

13

PREPARATION LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	08/28/02		100
MW-13	08/28/02		136
MW-15	08/28/02		142
MW-19D	08/28/02		144
MW-19M	08/28/02		132
MW-19MD	08/28/02		138
MW-19MS	08/28/02		140
MW-26	08/28/02		140
MW-28	08/28/02		134
MW-30	08/28/02		136
MW-7	08/28/02		144
MW-9	08/28/02		134
PBW	08/28/02		100

FORM XIII - IN SW846

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

Instrument ID Number: OPTIMA_2A Method: P

Start Date: 08/28/02 End Date: 08/28/02

EPA Sample No.	D/F	Time	% R	Analytes B
S0	1.00	1643		X
S1	1.00	1645		X
S2	1.00	1648		X
S3	1.00	1650		X
ZZZZZZ	1.00	1652		
ICV	1.00	1655		X
ICB	1.00	1657		X
ICSA	1.00	1659		
ICSAB	1.00	1702		
PBW	1.00	1704		X
LCSW	1.00	1707		X
ZZZZZZ	1.00	1709		
ZZZZZZ	1.00	1711		
ZZZZZZ	1.00	1714		
CCV	1.00	1716		X
CCB	1.00	1718		X
ZZZZZZ	1.00	1721		
ZZZZZZ	1.00	1723		
MW-19M	1.00	1726		X
MW-19D	1.00	1728		X
MW-15	1.00	1730		X
MW-7	1.00	1733		X
CCV	1.00	1735		X
CCB	1.00	1737		X
MW-30	1.00	1740		X
MW-28	1.00	1742		X
MW-9	1.00	1744		X
MW-13	1.00	1747		X
MW-26	1.00	1749		X
ZZZZZZ	1.00	1751		
ZZZZZZ	1.00	1754		
CCV	1.00	1756		X

FORM XIV - IN SW846

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

Instrument ID Number: OPTIMA_2A Method: P

Start Date: 08/28/02 End Date: 08/28/02

EPA Sample No.	D/F	Time	% R	Analytes: B
CCB	1.00	1758		X

FORM XIV - IN SW846

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

Instrument ID Number: OPTIMA_2A Method: P

Start Date: 08/29/02 End Date: 08/29/02

EPA Sample No.	D/F	Time	% R	Analytes: ALL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	0923				X	X		X		X		X		X		X		X		X	X				X	
S1	1.00	0927				X	X		X		X		X		X		X		X		X	X				X	
S2	1.00	0929				X	X		X		X		X		X		X		X		X	X				X	
S3	1.00	0932				X	X		X		X		X		X		X		X		X	X				X	
ZZZZZZ	1.00	0936																									
ZZZZZZ	1.00	0939																									
ZZZZZZ	1.00	0942																									
ZZZZZZ	1.00	0944																									
ZZZZZZ	1.00	0948																									
ICV	1.00	0952				X	X		X		X		X		X		X		X		X	X				X	
ICB	1.00	0955				X	X		X		X		X		X		X		X		X	X				X	
ICSA	1.00	0959																									
ICSAB	1.00	1002				X	X		X		X		X		X		X		X		X	X				X	
PBW	1.00	1004				X	X		X		X		X		X		X		X		X	X				X	
LCSW	1.00	1008				X	X		X		X		X		X		X		X		X	X				X	
ZZZZZZ	1.00	1013																									
ZZZZZZ	1.00	1017																									
ZZZZZZ	1.00	1021																									
CCV	1.00	1025				X	X		X		X		X		X		X		X		X	X				X	
CCB	1.00	1028				X	X		X		X		X		X		X		X		X	X				X	
ZZZZZZ	1.00	1032																									
ZZZZZZ	1.00	1035																									
ZZZZZZ	1.00	1039																									
MW-19M	1.00	1041				X	X		X		X		X		X		X		X		X	X				X	
MW-19D	1.00	1045				X	X		X		X		X		X		X		X		X	X				X	
MW-15	1.00	1048				X	X		X		X		X		X		X		X		X	X				X	
MW-7	1.00	1052				X	X		X		X		X		X		X		X		X	X				X	
CCV	1.00	1056				X	X		X		X		X		X		X		X		X	X				X	
CCB	1.00	1059				X	X		X		X		X		X		X		X		X	X				X	
MW-30	1.00	1103				X	X		X		X		X		X		X		X		X	X				X	
MW-28	1.00	1107				X	X		X		X		X		X		X		X		X	X				X	
MW-9	1.00	1111				X	X		X		X		X		X		X		X		X	X				X	

FORM XIV - IN SW846

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

Instrument ID Number: OPTIMA_2A Method: P

Start Date: 08/29/02 End Date: 08/29/02

EPA Sample No.	D/F	Time	% R	Analytes: ALL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
MW-13	1.00	1115				X	X		X		X		X		X		X		X		X	X				X	
MW-26	1.00	1119				X	X		X		X		X		X		X		X		X	X				X	
ICSA	1.00	1123																									
ICSAB	1.00	1126				X	X		X		X		X		X		X		X		X	X				X	
CCV	1.00	1129				X	X		X		X		X		X		X		X		X	X				X	
CCB	1.00	1131				X	X		X		X		X		X		X		X		X	X				X	

FORM XIV - IN SW846

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

Instrument ID Number: COMM_FIMS Method: CV

Start Date: 08/28/02 End Date: 08/28/02

EPA Sample No.	D/F	Time	% R	Analytes: ALL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1304																X									
S0.2	1.00	1305																X									
S1	1.00	1306																X									
S2	1.00	1308																X									
S5	1.00	1309																X									
S10	1.00	1310																X									
ICV	1.00	1312																X									
ICB	1.00	1313																X									
PBW	1.00	1314																X									
LCSW	1.00	1316																X									
MW-19M	1.00	1317																X									
MW-19MD	1.00	1318																X									
MW-19MS	1.00	1320																X									
MW-19D	1.00	1321																X									
MW-15	1.00	1322																X									
MW-7	1.00	1324																X									
CCV	1.00	1325																X									
CCB	1.00	1326																X									
MW-30	1.00	1328																X									
MW-28	1.00	1329																X									
MW-9	1.00	1330																X									
MW-13	1.00	1332																X									
MW-26	1.00	1333																X									
ZZZZZZ	1.00	1334																									
ZZZZZZ	1.00	1336																									
CCV	1.00	1337																X									
CCB	1.00	1338																X									

FORM XIV - IN SW846

INSTRUMENT RAW DATA

1. ICP

2. Mercury

Analysis Begun

Start Time: 8/28/2002 4:42:31 PM
Logged In Analyst: optima2
Spectrometer Model: Optima 3100 XL

Plasma On Time: 8/28/2002 4:24:59 PM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\pe\administrator\Sample Information\TEST.sif
Results Data Set: A082802
Results Library: d:\pe\administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: S0
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Data Collected: 8/28/2002 4:42:31 PM
Sample Prep Volume:
Data Type: Original

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
B 249.772	591.7	76.01	12.85%	[0.00] mg/L

Sequence No.: 2
Sample ID: S1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 9
Data Collected: 8/28/2002 4:44:48 PM
Sample Prep Volume:
Data Type: Original

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
B 249.772	1340737.5	4201.96	0.31%	[5.0] mg/L

Sequence No.: 3
Sample ID: S2
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 10
Data Collected: 8/28/2002 4:47:08 PM
Sample Prep Volume:
Data Type: Original

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
B 249.772	6807[5.2	1458.91	0.21%	[2.5] mg/L

Sequence No.: 4
Sample ID: S3
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 11
Data Collected: 8/28/2002 4:49:27 PM
Sample Prep Volume:
Data Type: Original

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
B 249.772	140405.4	626.39	0.45%	[0.5] mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
B 249.772	3	Lin Thru 0	0.0	268160	0.00000	0.999974	

Sequence No.: 5
Sample ID: CHECK
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 9
Data Collected: 8/28/2002 4:51:47 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CHECK

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
B 249.772	1322148.2	4.9138 mg/L	0.00902	4.9138 mg/L	0.00902	0.18%

Sequence No.: 6
Sample ID: ICV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Data Collected: 8/28/2002 4:54:06 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
B 249.772	655852.3	2.4375 mg/L	0.00221	2.4375 mg/L	0.00221	0.09%

Sequence No.: 7
Sample ID: ICB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Data Collected: 8/28/2002 4:56:27 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
B 249.772	8776.1	0.0326 mg/L	0.00013	0.0326 mg/L	0.00013	0.40%

Sequence No.: 8
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Data Collected: 8/28/2002 4:58:48 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
B 249.772	159955.0	0.5945 mg/L	0.00044	0.5945 mg/L	0.00044	0.07%

Sequence No.: 9
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 6
Data Collected: 8/28/2002 5:01:10 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
B 249.772	156278.1	0.5808 mg/L	0.00172	0.5808 mg/L	0.00172	0.30%

Sequence No.: 10
Sample ID: MB-3190,3190
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 17
Data Collected: 8/28/2002 5:03:34 PM
Sample Prep Volume:
Data Type: Original

Mean Data: MB-3190,3190

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
B 249.772	6678.3	0.0248 mg/L	0.00001	0.0249 mg/L	0.00001	0.03%

Sequence No.: 11
Sample ID: LCS-3190,3190
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 18
Data Collected: 8/28/2002 5:05:55 PM
Sample Prep Volume:
Data Type: Original

Mean Data: LCS-3190,3190

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
B 249.772	581876.0	2.1700 mg/L	0.00147	2.1700 mg/L	0.00147	0.07%

Sequence No.: 12
Sample ID: A1274-01E,3190
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 19
Data Collected: 8/28/2002 5:08:18 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1274-01E,3190

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
B 249.772	564659.9	2.0941 mg/L	0.00577	2.0941 mg/L	0.00577	0.28%

Sequence No.: 13
Sample ID: A1274-02E,3190
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 20
Data Collected: 8/28/2002 5:10:42 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1274-02E,3190

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
B 249.772	5383[.8	0.2001 mg/L	0.00131	0.2001 mg/L	0.00131	0.65%

Sequence No.: 14
Sample ID: A1274-02EDUP,3190
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 21
Data Collected: 8/28/2002 5:13:05 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1274-02EDUP,3190

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
B 249.772	54526.5	0.2026 mg/L	0.00020	0.2026 mg/L	0.00020	0.10%

Sequence No.: 15
Sample ID: CCV0
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Data Collected: 8/28/2002 5:15:26 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV0

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
B 249.772	641152.9	2.3903 mg/L	0.00353	2.3903 mg/L	0.00353	0.15%

Sequence No.: 16
Sample ID: CCB0
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 8/28/2002 5:17:49 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB0

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	5685.6	0.0211	mg/L	0.00009	0.0211	mg/L	0.00009	0.42%

Sequence No.: 17
Sample ID: A1274-02EMS,3190
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 22
Date Collected: 8/28/2002 5:20:10 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1274-02EMS,3190

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	634372.3	2.3577	mg/L	0.00497	2.3577	mg/L	0.00497	0.21%

Sequence No.: 18
Sample ID: A1274-02ESD,3190
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 23
Date Collected: 8/28/2002 5:22:34 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1274-02ESD,3190

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	17586.6	0.0654	mg/L	0.00047	0.0654	mg/L	0.00047	0.72%

Sequence No.: 19
Sample ID: A1243-02D,3190 MW-19M
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 25
Date Collected: 8/28/2002 5:24:58 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-02D,3190

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	203291.7	0.7555	mg/L	0.00047	0.7555	mg/L	0.00047	0.06%

Sequence No.: 20
Sample ID: A1243-03D,3190 MW-19D
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 26
Date Collected: 8/28/2002 5:27:16 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-03D,3190

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	229119.2	0.8515	mg/L	0.00235	0.8515	mg/L	0.00235	0.28%

Sequence No.: 21
Sample ID: A1243-06C,3190 MW-15
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 27
Date Collected: 8/28/2002 5:29:34 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-06C,3190

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	187488.1	0.6968	mg/L	0.00136	0.6968	mg/L	0.00136	0.20%

Sequence No.: 22
Sample ID: A1243-08C,3190 MW-7
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 28
Date Collected: 8/28/2002 5:31:54 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-08C,3190

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	127111.0	0.4724	mg/L	0.00178	0.4724	mg/L	0.00178	0.38%

Sequence No.: 23
Sample ID: CCV1
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 8/28/2002 5:34:13 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	639487.1	2.3767	mg/L	0.00635	2.3767	mg/L	0.00635	0.27%

Sequence No.: 24
Sample ID: CCB1
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 8/28/2002 5:36:33 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	4605.8	0.0171	mg/L	0.00019	0.0171	mg/L	0.00019	1.09%

Sequence No.: 25
Sample ID: A1243-10C,3190 MW-30
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 29
Date Collected: 8/28/2002 5:38:54 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-10C,3190

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	132529.6	0.4925	mg/L	0.00062	0.4925	mg/L	0.00062	0.13%

Sequence No.: 26
Sample ID: A1243-12B,3190 MW-29
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 30
Date Collected: 8/28/2002 5:41:13 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-12B,3190

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	110998.2	0.4125	mg/L	0.00051	0.4125	mg/L	0.00051	0.12%

Sequence No.: 27
Sample ID: A1243-14A,3190 MW-9
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 31
Date Collected: 8/28/2002 5:43:33 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-14A,3190

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	1373955.6	5.1063	mg/L	0.00240	5.1063	mg/L	0.00240	0.05%

Sequence No.: 28
Sample ID: A1243-15C,3190 MW-13
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 32
Date Collected: 8/28/2002 5:45:55 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-15C,3190

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	171671.0	0.6380	mg/L	0.00455	0.6380	mg/L	0.00455	0.71%

Sequence No.: 29
Sample ID: A1243-16C,3190 MW-26
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 33
Date Collected: 8/28/2002 5:48:17 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-16C,3190

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	179675.8	0.6678	mg/L	0.00065	0.6678	mg/L	0.00065	0.10%

Sequence No.: 30
Sample ID: ICSA1
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 5
Date Collected: 8/28/2002 5:50:38 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSA1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	152744.4	0.5677	mg/L	0.00076	0.5677	mg/L	0.00076	0.13%

Sequence No.: 31
Sample ID: ICSAB1
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 6
Date Collected: 8/28/2002 5:53:00 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	148425.7	0.5516	mg/L	0.00206	0.5516	mg/L	0.00206	0.37%

Sequence No.: 32
Sample ID: CCV2
Analyst:
Sample Wt:
Autosampler Location: 3
Date Collected: 8/28/2002 5:55:24 PM
Sample Prep Volume:

Dilution:
Data Type: Original

Mean Data: CCV2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	633129.2	2.3530	mg/L	0.01080	2.3530	mg/L	0.01080	0.46%

Sequence No.: 33
Sample ID: CCB2
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 8/28/2002 5:57:45 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	4863.2	0.0181	mg/L	0.00009	0.0181	mg/L	0.00009	0.48%

Method: 6010 A082901B Page 1 Date: 8/29/2002 9:27:35 AM

Analysis Begun

Start Time: 8/29/2002 9:21:44 AM
Logged In Analyst: optima2
Spectrometer Model: Optima 3100 XL
Plasma On Time: 8/29/2002 8:42:16 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\pe\administrator\Sample Information\Evan.sif
Results Data Set: A082901
Results Library: d:\pe\administrator\Results\Results.mdb

Method Loaded
Method Name: 6010
IEC File: A020508X.iec
Method Description: Working method for all analytes
Method Last Saved: 8/27/2002 3:54:24 PM
MSF File:

Sequence No.: 1
Sample ID: S0
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 8/29/2002 9:21:44 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Ag 328.068	1282.3	866.36	67.56%	[0.00]	mg/L
Al 308.215	48484.9	39720.98	81.92%	[0.00]	mg/L
As 188.979	-20.6	3.92	19.01%	[0.00]	mg/L
Ba 233.527	-1346.5	36.79	2.73%	[0.00]	mg/L
Be 313.107	-5630.2	38.89	0.69%	[0.00]	mg/L
Co 228.616	-366.6	1.64	0.45%	[0.00]	mg/L
Cr 267.716	-315.0	123.05	39.07%	[0.00]	mg/L
Cu 324.752	8020.0	4936.27	82.00%	[0.00]	mg/L
Fe 273.955	-1726.8	123.39	7.15%	[0.00]	mg/L
Mg 279.077	-7091.5	640.11	9.03%	[0.00]	mg/L
Mn 257.610	-3941.4	236.48	6.00%	[0.00]	mg/L
Ni 231.604	29.3	14.50	49.57%	[0.00]	mg/L
Pb 220.353	104.1	0.85	0.82%	[0.00]	mg/L
Sb 206.836	-57.6	3.96	6.88%	[0.00]	mg/L
Se 196.026	63.8	0.22	0.35%	[0.00]	mg/L
Tl 190.801	8.8	1.29	14.62%	[0.00]	mg/L
V 292.402	595.7	16.05	1.61%	[0.00]	mg/L
Zn 206.200	3091.3	83.96	1.65%	[0.00]	mg/L
Na 330.237	23796.2	13427.56	56.43%	[0.00]	mg/L
Cd 226.502	-350.4	11.98	3.42%	[0.00]	mg/L
Ti 334.940	2944.6	23.50	1.15%	[0.00]	mg/L
Ca 227.546	-57.6	5.26	9.12%	[0.00]	mg/L

Sequence No.: 2
Sample ID: S1
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 2
Date Collected: 8/29/2002 9:26:02 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Ag 328.068	1038568.9	220.06	0.02%	[2.5]	mg/L
Al 308.215	1206668.6	6486.37	0.54%	[20]	mg/L
As 188.979	3504.9	34.06	0.97%	[1]	mg/L
Ba 233.527	2864337.7	3284.15	0.11%	[20]	mg/L
Be 313.107	5526212.5	18556.80	0.34%	[0.5]	mg/L
Co 228.616	361312.1	428.23	0.12%	[5]	mg/L
Cr 267.716	985006.1	1310.52	0.13%	[2]	mg/L
Cu 324.752	1499979.9	1283.03	0.09%	[2.5]	mg/L

000975

Method: 6010 Page 2 Date: 8/29/2002 9:34:07 AM

Fe 273.955	680643.5	739.44	0.11%	[10]	mg/L
Mg 279.077	3160043.0	4679.28	0.15%	[50]	mg/L
Mn 257.610	2862616.0	2578.36	0.09%	[5]	mg/L
Ni 231.604	547940.1	693.75	0.13%	[5]	mg/L
Pb 220.353	33900.2	178.63	0.53%	[1]	mg/L
Sb 206.836	5651.6	34.82	0.62%	[1]	mg/L
Se 196.026	3753.7	30.40	0.81%	[1]	mg/L
Tl 190.801	4535.2	4.99	0.11%	[1]	mg/L
V 292.402	2386706.7	3723.79	0.16%	[5]	mg/L
Zn 206.200	959110.2	1349.09	0.14%	[5]	mg/L
Na 330.237	117342.8	386.49	0.33%	[50]	mg/L
Cd 226.502	279161.1	670.29	0.24%	[0.5]	mg/L
Ti 334.940	1551363.1	2313.76	0.15%	[1]	mg/L
Ca 227.546	47028.6	297.05	0.63%	[50]	mg/L

Sequence No.: 3
Sample ID: S2
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 9
Date Collected: 8/29/2002 9:28:43 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Ag 328.068	521630.5	1664.62	0.31%	[1.25]	mg/L
Al 308.215	580996.9	6714.95	1.16%	[10]	mg/L
As 188.979	1793.3	25.12	1.40%	[0.5]	mg/L
Ba 233.527	1482617.6	5809.37	0.39%	[10]	mg/L
Be 313.107	2793766.5	39146.71	1.40%	[0.25]	mg/L
Co 228.616	185304.5	180.66	0.10%	[2.5]	mg/L
Cr 267.716	498331.5	1494.03	0.30%	[1]	mg/L
Cu 324.752	749457.1	2435.17	0.32%	[1.25]	mg/L
Fe 273.955	346267.7	1192.11	0.34%	[5]	mg/L
Mg 279.077	1603467.1	3518.28	0.22%	[25]	mg/L
Mn 257.610	1469433.3	3448.06	0.23%	[2.5]	mg/L
Ni 231.604	280547.2	98.11	0.03%	[2.5]	mg/L
Pb 220.353	17417.7	247.00	1.42%	[0.5]	mg/L
Sb 206.836	2918.1	57.64	1.97%	[0.5]	mg/L
Se 196.026	1956.6	2.81	0.14%	[0.5]	mg/L
Tl 190.801	2350.6	51.78	2.20%	[0.5]	mg/L
V 292.402	1201287.2	3011.35	0.25%	[2.5]	mg/L
Zn 206.200	485063.2	1266.59	0.26%	[2.5]	mg/L
Na 330.237	45779.7	377.21	0.82%	[25]	mg/L
Cd 226.502	142280.6	236.83	0.17%	[0.25]	mg/L
Ti 334.940	779539.3	2469.84	0.32%	[0.5]	mg/L
Ca 227.546	23928.0	216.27	0.90%	[25]	mg/L

Sequence No.: 4
Sample ID: S3
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 10
Date Collected: 8/29/2002 9:31:15 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Ag 328.068	9823.4	54.93	0.56%	[0.025]	mg/L
Al 308.215	-6974.7	9927.28	142.33%	[0.2]	mg/L
The standards were not analyzed in the same order as the entered (actual) concentrations.					
As 188.979	32.9	1.37	4.17%	[0.01]	mg/L
Ba 233.527	32266.9	602.34	1.87%	[0.2]	mg/L
Be 313.107	55944.6	1215.65	2.17%	[0.005]	mg/L
Co 228.616	4016.6	7.41	0.18%	[0.05]	mg/L
Cr 267.716	10057.2	362.48	3.61%	[0.02]	mg/L
Cu 324.752	15049.2	560.89	3.73%	[0.025]	mg/L
Fe 273.955	7324.5	67.58	0.92%	[0.1]	mg/L
Mg 279.077	39869.7	934.40	2.34%	[0.5]	mg/L

000976

Method: 6010 Page 3 Date: 8/29/2002 9:36:47 AM

Mn 257.610	35314.8	639.84	1.81%	[0.05]	mg/L
Ni 231.604	6072.1	32.98	0.54%	[0.05]	mg/L
Pb 220.353	269.1	2.60	0.97%	[0.01]	mg/L
Sb 206.836	61.7	0.09	0.15%	[0.01]	mg/L
Se 196.026	38.8	1.13	2.91%	[0.01]	mg/L
Tl 190.801	51.4	1.55	3.02%	[0.01]	mg/L
V 292.402	24704.4	493.66	2.00%	[0.05]	mg/L
Zn 206.200	5441.7	89.13	1.64%	[0.05]	mg/L
Na 330.237	-19257.8	309.45	1.61%	[0.5]	mg/L
The standards were not analyzed in the same order as the entered (actual) concentrations.					
Cd 226.502	2898.7	6.28	0.22%	[0.005]	mg/L
Ti 334.940	*15910.6*	*240.26*	*1.51%*	*[0.01]*	*mg/L*
Ca 227.546	474.8	18.77	3.95%	[0.5]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	415800	0.00000	0.999998	
Al 308.215	3	Lin Thru 0	0.0	59880	0.00000	0.999789	
As 188.979	3	Lin Thru 0	0.0	3521	0.00000	0.999957	
Ba 233.527	3	Lin Thru 0	0.0	144200	0.00000	0.999902	
Be 313.107	3	Lin Thru 0	0.0	11080000	0.00000	0.999990	
Co 228.616	3	Lin Thru 0	0.0	72630	0.00000	0.999947	
Cr 267.716	3	Lin Thru 0	0.0	493700	0.00000	0.999988	
Cu 324.752	3	Lin Thru 0	0.0	599900	0.00000	1.000000	
Fe 273.955	3	Lin Thru 0	0.0	68300	0.00000	0.999976	
Mg 279.077	3	Lin Thru 0	0.0	63390	0.00000	0.999980	
Mn 257.610	3	Lin Thru 0	0.0	575600	0.00000	0.999942	
Ni 231.604	3	Lin Thru 0	0.0	110100	0.00000	0.999954	
Pb 220.353	3	Lin Thru 0	0.0	34090	0.00000	0.999938	
Sb 206.836	3	Lin Thru 0	0.0	5689	0.00000	0.999915	
Se 196.026	3	Lin Thru 0	0.0	3786	0.00000	0.999858	
Tl 190.801	3	Lin Thru 0	0.0	4568	0.00000	0.999894	
V 292.402	3	Lin Thru 0	0.0	478000	0.00000	0.999996	
Zn 206.200	3	Lin Thru 0	0.0	190800	0.00000	0.999957	
Na 330.237	3	Lin Thru 0	0.0	2240	0.00000	0.982964	
Cd 226.502	3	Lin Thru 0	0.0	560500	0.00000	0.999970	
Tl 334.940	3	Lin Thru 0	0.0	1553000	0.00000	0.999998	
Ca 227.546	3	Lin Thru 0	0.0	943.9	0.00000	0.999975	

Sequence No.: 5
Sample ID: CHECK
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 2
Date Collected: 8/29/2002 9:35:14 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CHECK

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	1049470.3	2.5274	mg/L	0.00978	2.5274	mg/L	0.00978	0.39%
Al 308.215	1190000.8	19.873	mg/L	0.1013	19.873	mg/L	0.1013	0.51%
As 188.979	3551.4	1.0281	mg/L	0.00395	1.0281	mg/L	0.00395	0.38%
Ba 233.527	2835987.2	19.674	mg/L	0.0283	19.674	mg/L	0.0283	0.14%
Be 313.107	5515274.8	0.4989	mg/L	0.00471	0.4989	mg/L	0.00471	0.94%
Co 228.616	364223.2	5.0122	mg/L	0.01526	5.0122	mg/L	0.01526	0.30%
Cr 267.716	981629.2	1.9886	mg/L	0.00469	1.9886	mg/L	0.00469	0.24%
Cu 324.752	1490789.9	2.4780	mg/L	0.01196	2.4780	mg/L	0.01196	0.48%
Fe 273.955	678167.1	9.9289	mg/L	0.01044	9.9289	mg/L	0.01044	0.11%
Mg 279.077	3150624.1	49.728	mg/L	0.0188	49.728	mg/L	0.0188	0.04%
Mn 257.610	2881921.1	5.0066	mg/L	0.01532	5.0066	mg/L	0.01532	0.31%
Ni 231.604	538236.1	4.8870	mg/L	0.00583	4.8870	mg/L	0.00583	0.12%
Pb 220.353	34052.6	1.0022	mg/L	0.00116	1.0022	mg/L	0.00116	0.12%
Sb 206.836	5696.4	1.0105	mg/L	0.00034	1.0105	mg/L	0.00034	0.03%
Se 196.026	3820.1	1.0065	mg/L	0.00930	1.0065	mg/L	0.00930	0.92%
Tl 190.801	4604.1	1.0180	mg/L	0.00503	1.0180	mg/L	0.00503	0.49%
V 292.402	2371390.8	4.9651	mg/L	0.01113	4.9651	mg/L	0.01113	0.22%
Zn 206.200	946551.4	4.9580	mg/L	0.00333	4.9580	mg/L	0.00333	0.07%
Na 330.237	115628.5	51.779	mg/L	0.3685	51.779	mg/L	0.3685	0.71%

09/11/02

000977

Method: 6010 Page 4 Date: 8/29/2002 9:42:13 AM

Cd 226.502	279026.9	0.4986	mg/L	0.00103	0.4986	mg/L	0.00103	0.21%
Ti 334.940	1547012.9	0.9898	mg/L	0.00260	0.9898	mg/L	0.00260	0.26%
Ca 227.546	67807.2	50.301	mg/L	0.0564	50.301	mg/L	0.0564	0.11%

Sequence No.: 6
Sample ID: LRA #1
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 11
Date Collected: 8/29/2002 9:37:55 AM
Sample Prep Volume:
Data Type: Original

Mean Data: LRA #1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-8084.5	-0.0065	mg/L	0.00013	-0.0065	mg/L	0.00013	2.06%
Al 308.215	205.0	0.0034	mg/L	0.11587	0.0034	mg/L	0.11587	>999.9%
As 188.979	69448.1	19.925	mg/L	0.1831	19.925	mg/L	0.1831	0.92%
Ba 233.527	-2655.5	0.0289	mg/L	0.00020	0.0289	mg/L	0.00020	0.70%
Be 313.107	Saturated3							
Saturated in preshot (code 3)								
Co 228.616	1623170.6	22.345	mg/L	0.0535	22.345	mg/L	0.0535	0.24%
Cr 267.716	10374209.2	21.015	mg/L	0.1578	21.015	mg/L	0.1578	0.75%
Cu 324.752	12920914.4	21.506	mg/L	0.1723	21.506	mg/L	0.1723	0.80%
Fe 273.955	1488025.6	21.786	mg/L	0.0997	21.786	mg/L	0.0997	0.46%
Mg 279.077	1352383.1	21.441	mg/L	0.1037	21.441	mg/L	0.1037	0.48%
Mn 257.610	12660523.6	20.955	mg/L	0.2780	20.955	mg/L	0.2780	1.33%
Ni 231.604	2329635.4	21.152	mg/L	0.1867	21.152	mg/L	0.1867	0.88%
Pb 220.353	723478.0	21.229	mg/L	0.1248	21.229	mg/L	0.1248	0.59%
Sb 206.836	111977.8	19.701	mg/L	0.1422	19.701	mg/L	0.1422	0.72%
Se 196.026	76054.8	20.073	mg/L	0.2743	20.073	mg/L	0.2743	1.37%
Tl 190.801	96254.8	21.102	mg/L	0.2137	21.102	mg/L	0.2137	1.01%
V 292.402	10003849.3	20.974	mg/L	0.1340	20.974	mg/L	0.1340	0.64%
Zn 206.200	3981387.9	20.897	mg/L	0.0998	20.897	mg/L	0.0998	0.48%
Na 330.237	40916.8	17.992	mg/L	0.4065	17.992	mg/L	0.4065	2.26%
Cd 226.502	113274155.6	20.208	mg/L	0.2568	20.208	mg/L	0.2568	1.27%
Ti 334.940	Saturated2							
Saturated in preshot (code 2)								
Ca 227.546	28633.3	28.754	mg/L	0.3984	28.754	mg/L	0.3984	1.39%

Sequence No.: 7
Sample ID: LRA #3
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 13
Date Collected: 8/29/2002 9:40:48 AM
Sample Prep Volume:
Data Type: Original

Mean Data: LRA #3

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-1061.4	-0.0025	mg/L	0.00006	-0.0025	mg/L	0.00006	2.41%
Al 308.215	311487655.5	520.19	mg/L	1.942	520.19	mg/L	1.942	0.37%
As 188.979	71.5	0.0115	mg/L	0.01052	0.0115	mg/L	0.01052	91.03%
Ba 233.527	222.4	0.0015	mg/L	0.00036	0.0015	mg/L	0.00036	23.45%
Be 313.107	43967.2	0.0040	mg/L	0.00041	0.0040	mg/L	0.00041	10.29%
Co 228.616	223.6	0.0046	mg/L	0.00034	0.0046	mg/L	0.00034	7.39%
Cr 267.716	2582.5	0.0052	mg/L	0.00027	0.0052	mg/L	0.00027	5.21%
Cu 324.752	50877.4	0.0843	mg/L	0.00539	0.0843	mg/L	0.00539	6.39%
Fe 273.955	999.1	0.0146	mg/L	0.00033	0.0146	mg/L	0.00033	2.24%
Mg 279.077	33340483.7	525.96	mg/L	1.869	525.96	mg/L	1.869	0.36%
Mn 257.610	6700.7	0.0070	mg/L	0.00041	0.0070	mg/L	0.00041	5.77%
Ni 231.604	595.0	0.0054	mg/L	0.00042	0.0054	mg/L	0.00042	7.84%
Pb 220.353	-1384.8	-0.0008	mg/L	0.00090	-0.0008	mg/L	0.00090	120.28%
Sb 206.836	76.7	0.0346	mg/L	0.01317	0.0346	mg/L	0.01317	38.04%
Se 196.026	56.9	0.0163	mg/L	0.00726	0.0163	mg/L	0.00726	44.51%
Tl 190.801	75.9	0.0084	mg/L	0.00215	0.0084	mg/L	0.00215	25.73%
V 292.402	982.5	0.0021	mg/L	0.00018	0.0021	mg/L	0.00018	8.84%
Zn 206.200	3390.1	-0.0241	mg/L	0.00071	-0.0241	mg/L	0.00071	2.93%
Na 330.237	-20539.9	-9.1671	mg/L	0.04628	-9.1671	mg/L	0.04628	0.50%
Cd 226.502	1070.2	0.0019	mg/L	0.00017	0.0019	mg/L	0.00017	9.00%

09/11/02

000978

Ti 334.940	4937.2	0.0032 mg/L	0.00028	0.0032 mg/L	0.00028	8.83%
Ca 227.546	-157.6	0.0692 mg/L	0.09445	0.0692 mg/L	0.09445	136.39%

Sequence No.: 8
Sample ID: LRA #4
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 8/29/2002 9:43:22 AM

Sample Prep Volume:
Data Type: Original

Mean Data: LRA #4

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-22896.7	0.0149	mg/L	0.00096	0.0149	mg/L	0.00096	6.43%
Al 308.215	-22871.2	-0.3753	mg/L	0.07515	-0.3753	mg/L	0.07515	20.02%
As 188.979	-111.3	-0.0027	mg/L	0.00051	-0.0027	mg/L	0.00051	19.07%
Ba 233.527	2096.2	0.0014	mg/L	0.00023	0.0014	mg/L	0.00023	16.96%
Be 313.107	13565.4	0.0012	mg/L	0.00002	0.0012	mg/L	0.00002	1.97%
Co 228.616	743.4	0.0062	mg/L	0.00031	0.0063	mg/L	0.00031	4.96%
Cr 267.716	2723.0	0.0092	mg/L	0.00033	0.0092	mg/L	0.00033	3.52%
Cu 324.752	20868.3	0.0762	mg/L	0.00250	0.0762	mg/L	0.00250	3.29%
Fe 273.955	20167035.1	295.26	mg/L	1.363	295.26	mg/L	1.363	0.46%
Mg 279.077	-1294.2	-0.0205	mg/L	0.03550	-0.0205	mg/L	0.03550	173.04%
Mn 257.610	-11244.8	-0.0131	mg/L	0.00066	-0.0131	mg/L	0.00066	5.02%
Ni 231.604	1094.2	0.0099	mg/L	0.00094	0.0099	mg/L	0.00094	9.42%
Pb 220.353	-32.3	-0.0054	mg/L	0.00002	-0.0054	mg/L	0.00002	0.31%
Sb 206.836	7.6	0.0242	mg/L	0.00623	0.0242	mg/L	0.00623	25.73%
Se 196.026	-390.2	-0.0198	mg/L	0.00114	-0.0198	mg/L	0.00114	5.74%
Tl 190.801	-8.9	0.0154	mg/L	0.00000	0.0154	mg/L	0.00000	0.01%
V 292.402	20.7	-0.0024	mg/L	0.00026	-0.0024	mg/L	0.00026	10.78%
Zn 206.200	-4871.7	-0.0308	mg/L	0.00051	-0.0308	mg/L	0.00051	1.65%
Na 330.237	-21998.5	-9.3078	mg/L	0.05833	-9.3078	mg/L	0.05833	0.63%
Cd 226.502	8370.3	0.0046	mg/L	0.00049	0.0046	mg/L	0.00049	10.59%
Ti 334.940	519.8	0.0003	mg/L	0.00011	0.0003	mg/L	0.00011	31.02%
Ca 227.546	1296.9	-1.1865	mg/L	0.20316	-1.1865	mg/L	0.20316	17.12%

Sequence No.: 9
Sample ID: LRA #5
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 8/29/2002 9:47:34 AM

Sample Prep Volume:
Data Type: Original

Mean Data: LRA #5

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	1265.4	-0.0078	mg/L	0.00015	-0.0078	mg/L	0.00015	1.96%
Al 308.215	-31547.6	-0.5269	mg/L	0.11994	-0.5269	mg/L	0.11994	22.76%
As 188.979	0.9	0.0003	mg/L	0.00048	0.0003	mg/L	0.00048	182.48%
Ba 233.527	271.1	0.0004	mg/L	0.00005	0.0004	mg/L	0.00005	12.81%
Be 313.107	10002.3	0.0009	mg/L	0.00009	0.0009	mg/L	0.00009	10.34%
Co 228.616	80.3	0.0011	mg/L	0.00004	0.0011	mg/L	0.00004	3.95%
Cr 267.716	374.8	0.0008	mg/L	0.00003	0.0008	mg/L	0.00003	3.45%
Cu 324.752	10076.5	0.0154	mg/L	0.00586	0.0154	mg/L	0.00586	38.06%
Fe 273.955	5954.2	0.0872	mg/L	0.00257	0.0872	mg/L	0.00257	2.95%
Mg 279.077	2508.0	0.0396	mg/L	0.00973	0.0396	mg/L	0.00973	24.60%
Mn 257.610	1355.4	0.0024	mg/L	0.00018	0.0024	mg/L	0.00018	7.49%
Ni 231.604	184.8	0.0017	mg/L	0.00008	0.0017	mg/L	0.00008	4.77%
Pb 220.353	-270.4	-0.0039	mg/L	0.00014	-0.0039	mg/L	0.00014	3.73%
Sb 206.836	24.3	0.0058	mg/L	0.00045	0.0058	mg/L	0.00045	7.73%
Se 196.026	4.2	0.0011	mg/L	0.00120	0.0011	mg/L	0.00120	106.26%
Tl 190.801	10.0	0.0004	mg/L	0.00014	0.0004	mg/L	0.00014	32.77%
V 292.402	-68.5	-0.0001	mg/L	0.00019	-0.0001	mg/L	0.00019	135.03%
Zn 206.200	-4703.6	-0.0266	mg/L	0.00007	-0.0266	mg/L	0.00007	0.26%
Na 330.237	-18173.1	-8.6528	mg/L	0.00693	-8.6528	mg/L	0.00693	0.08%
Cd 226.502	18.2	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	52.60%
Ti 334.940	-7370.6	-0.0012	mg/L	0.00003	-0.0012	mg/L	0.00003	2.42%
Ca 227.546	475278.9	503.53	mg/L	0.391	503.53	mg/L	0.391	0.08%

σ 09/11/02

Sequence No.: 10
Sample ID: ICV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 8/29/2002 9:51:37 AM

Sample Prep Volume:
Data Type: Original

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	541159.3	1.3033	mg/L	0.01808	1.3033	mg/L	0.01808	1.39%
Al 308.215	589017.1	9.8368	mg/L	0.12884	9.8368	mg/L	0.12884	1.31%
As 188.979	1728.4	0.5007	mg/L	0.00889	0.5007	mg/L	0.00889	1.78%
Ba 233.527	1521156.7	10.553	mg/L	0.0895	10.553	mg/L	0.0895	0.85%
Be 313.107	2851432.8	0.2574	mg/L	0.00007	0.2574	mg/L	0.00007	0.03%
Co 228.616	195921.2	2.6969	mg/L	0.03370	2.6969	mg/L	0.03370	1.25%
Cr 267.716	505557.4	1.0242	mg/L	0.01020	1.0242	mg/L	0.01020	1.00%
Cu 324.752	799092.4	1.3138	mg/L	0.01543	1.3138	mg/L	0.01543	1.17%
Fe 273.955	354750.4	5.1938	mg/L	0.04915	5.1938	mg/L	0.04915	0.95%
Mg 279.077	1630758.5	25.740	mg/L	0.2350	25.740	mg/L	0.2350	0.91%
Mn 257.610	1526959.7	2.6927	mg/L	0.03156	2.6927	mg/L	0.03156	1.19%
Ni 231.604	276486.4	2.5105	mg/L	0.01676	2.5105	mg/L	0.01676	0.67%
Pb 220.353	16513.5	0.4858	mg/L	0.01105	0.4858	mg/L	0.01105	2.28%
Sb 206.836	2780.1	0.4930	mg/L	0.00754	0.4930	mg/L	0.00754	1.53%
Se 196.026	1910.6	0.5034	mg/L	0.01192	0.5034	mg/L	0.01192	2.37%
Tl 190.801	2267.6	0.5012	mg/L	0.00902	0.5012	mg/L	0.01083	2.16%
V 292.402	1214459.4	2.5431	mg/L	0.02269	2.5431	mg/L	0.02269	0.89%
Zn 206.200	491400.9	2.5744	mg/L	0.02291	2.5744	mg/L	0.02291	0.89%
Na 330.237	47499.9	21.157	mg/L	0.3013	21.157	mg/L	0.3013	1.42%
Cd 226.502	141810.3	0.2534	mg/L	0.00269	0.2534	mg/L	0.00269	1.06%
Ti 334.940	1091.3	0.0007	mg/L	0.00003	0.0007	mg/L	0.00003	4.10%
Ca 227.546	23861.7	25.100	mg/L	0.6205	25.100	mg/L	0.6205	2.47%

Sequence No.: 11
Sample ID: ICB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 8/29/2002 9:54:11 AM

Sample Prep Volume:
Data Type: Original

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-1183.5	-0.0028	mg/L	0.00043	-0.0028	mg/L	0.00043	14.97%
Al 308.215	-23476.6	-0.3921	mg/L	0.10733	-0.3921	mg/L	0.10733	27.38%
As 188.979	0.3	0.0001	mg/L	0.00092	0.0001	mg/L	0.00092	868.74%
Ba 233.527	176.6	0.0012	mg/L	0.00029	0.0012	mg/L	0.00029	24.09%
Be 313.107	5425.7	0.0005	mg/L	0.00007	0.0005	mg/L	0.00007	14.10%
Co 228.616	54.1	0.0007	mg/L	0.00019	0.0007	mg/L	0.00019	26.16%
Cr 267.716	4.6	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	539.17%
Cu 324.752	-1521.5	-0.0025	mg/L	0.00069	-0.0025	mg/L	0.00069	27.04%
Fe 273.955	605.3	0.0089	mg/L	0.00021	0.0089	mg/L	0.00021	2.39%
Mg 279.077	3858.5	0.0609	mg/L	0.00368	0.0609	mg/L	0.00368	6.05%
Mn 257.610	830.2	0.0014	mg/L	0.00016	0.0014	mg/L	0.00016	11.45%
Ni 231.604	55.5	0.0005	mg/L	0.00004	0.0005	mg/L	0.00004	7.42%
Pb 220.353	-93.3	-0.0028	mg/L	0.00012	-0.0028	mg/L	0.00012	4.31%
Sb 206.836	7.5	0.0013	mg/L	0.00053	0.0013	mg/L	0.00053	40.54%
Se 196.026	0.4	0.0001	mg/L	0.00133	0.0001	mg/L	0.00133	>999.9%
Tl 190.801	2.8	0.0006	mg/L	0.00023	0.0006	mg/L	0.00023	35.60%
V 292.402	78.1	0.0002	mg/L	0.00011	0.0002	mg/L	0.00011	64.75%
Zn 206.200	-5421.1	-0.0284	mg/L	0.00019	-0.0284	mg/L	0.00019	0.66%
Na 330.237	-20700.9	-9.2400	mg/L	0.03012	-9.2400	mg/L	0.03012	0.33%
Cd 226.502	-50.8	-0.0001	mg/L	0.00000	-0.0001	mg/L	0.00000	2.47%
Ti 334.940	-212.0	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	4.37%
Ca 227.546	72.3	0.0764	mg/L	0.01458	0.0764	mg/L	0.01458	19.08%

Sequence No.: 12
Sample ID: ICSA

Autosampler Location: 5
Date Collected: 8/29/2002 9:58:14 AM

Analyst:
Sample Wt:
Dilution:

Sample Prep Volume:
Data Type: Original

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-13264.6	-0.0002	mg/L	0.00945	-0.0002	mg/L	0.00045	266.52%
Al 308.215	31634367.8	528.30	mg/L	0.308	528.30	mg/L	0.308	0.06%
As 188.979	-60.9	-0.0085	mg/L	0.00418	-0.0085	mg/L	0.00418	49.23%
Ba 233.527	1506.1	0.0008	mg/L	0.00020	0.0008	mg/L	0.00020	24.97%
Be 313.107	3051.4	0.0003	mg/L	0.00000	0.0003	mg/L	0.00000	1.14%
Co 228.616	151.1	0.0012	mg/L	0.00072	0.0012	mg/L	0.00072	61.83%
Cr 267.716	-105.4	0.0021	mg/L	0.00022	0.0021	mg/L	0.00022	10.82%
Cu 324.752	-10888.0	0.0054	mg/L	0.00051	0.0054	mg/L	0.00051	9.52%
Fe 273.955	12406207.6	181.64	mg/L	0.282	181.64	mg/L	0.282	0.16%
Mg 279.077	31079739.7	490.30	mg/L	0.860	490.30	mg/L	0.860	0.18%
Mn 257.610	-5675.5	-0.0098	mg/L	0.00017	-0.0098	mg/L	0.00017	1.70%
Ni 231.604	164.6	0.0015	mg/L	0.00061	0.0015	mg/L	0.00061	41.05%
Pb 220.353	-1662.9	-0.0066	mg/L	0.00101	-0.0066	mg/L	0.00101	15.42%
Sb 206.836	-142.9	0.0122	mg/L	0.00894	0.0122	mg/L	0.00894	73.20%
Se 196.026	-238.0	-0.0105	mg/L	0.00188	-0.0105	mg/L	0.00188	17.88%
Tl 190.801	27.3	0.0060	mg/L	0.00437	0.0060	mg/L	0.00437	73.20%
V 292.402	-202.7	-0.0019	mg/L	0.00001	-0.0019	mg/L	0.00001	0.53%
Zn 206.200	1168.0	-0.0383	mg/L	0.00011	-0.0383	mg/L	0.00011	0.29%
Na 330.237	-18782.1	-8.6346	mg/L	0.02687	-8.6346	mg/L	0.02687	0.31%
Cd 226.502	5376.2	0.0032	mg/L	0.00009	0.0032	mg/L	0.00009	2.63%
Ti 334.940	-8335.8	-0.0017	mg/L	0.00001	-0.0017	mg/L	0.00001	0.58%
Ca 227.546	497293.0	525.52	mg/L	8.789	525.52	mg/L	8.789	1.67%

Sequence No.: 13
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 8/29/2002 10:00:53 AM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	60673.0	0.1770	mg/L	0.00036	0.1770	mg/L	0.00036	0.20%
Al 308.215	30620993.9	511.38	mg/L	2.290	511.38	mg/L	2.290	0.45%
As 188.979	257.5	0.0863	mg/L	0.00961	0.0863	mg/L	0.00961	11.13%
Ba 233.527	74488.2	0.5083	mg/L	0.00097	0.5083	mg/L	0.00097	0.19%
Be 313.107	5626934.3	0.5080	mg/L	0.00196	0.5080	mg/L	0.00196	0.39%
Co 228.616	36021.1	0.4949	mg/L	0.00008	0.4949	mg/L	0.00008	0.02%
Cr 267.716	243937.5	0.4963	mg/L	0.00163	0.4963	mg/L	0.00163	0.33%
Cu 324.752	337290.2	0.5842	mg/L	0.00374	0.5842	mg/L	0.00374	0.64%
Fe 273.955	12015024.0	175.91	mg/L	0.502	175.91	mg/L	0.502	0.29%
Mg 279.077	29913229.9	471.90	mg/L	1.352	471.90	mg/L	1.352	0.29%
Mn 257.610	293412.4	0.5099	mg/L	0.00115	0.5099	mg/L	0.00115	0.23%
Ni 231.604	97089.1	0.8889	mg/L	0.00329	0.8889	mg/L	0.00329	0.37%
Pb 220.353	13471.2	0.4363	mg/L	0.00100	0.4363	mg/L	0.00100	0.23%
Sb 206.836	3031.1	0.5694	mg/L	0.00139	0.5694	mg/L	0.00139	0.24%
Se 196.026	1634.6	0.4819	mg/L	0.01210	0.4819	mg/L	0.01210	2.51%
Tl 190.801	399.6	0.0883	mg/L	0.00239	0.0883	mg/L	0.00239	2.71%
V 292.402	237927.7	0.4974	mg/L	0.00161	0.4974	mg/L	0.00161	0.32%
Zn 206.200	180081.7	0.9017	mg/L	0.00048	0.9017	mg/L	0.00048	0.05%
Na 330.237	115492.5	51.305	mg/L	0.3358	51.305	mg/L	0.3358	0.65%
Cd 226.502	517429.1	0.9172	mg/L	0.00126	0.9172	mg/L	0.00126	0.14%
Ti 334.940	-7676.1	-0.0015	mg/L	0.00008	-0.0015	mg/L	0.00008	5.71%
Ca 227.546	477085.7	504.12	mg/L	2.057	504.12	mg/L	2.057	0.41%

Sequence No.: 14
Sample ID: MB-3190,3190
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 17
Date Collected: 8/29/2002 10:03:37 AM

Sample Prep Volume:
Data Type: Original

PBW

Mean Data: MB-3190,3190

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-1164.8	-0.0028	mg/L	0.00016	-0.0028	mg/L	0.00016	5.87%
Al 308.215	-29799.5	-0.4977	mg/L	0.05678	-0.4977	mg/L	0.05678	11.41%
As 188.979	1.4	0.0004	mg/L	0.00065	0.0004	mg/L	0.00065	158.98%
Ba 233.527	289.5	0.0020	mg/L	0.00007	0.0020	mg/L	0.00007	3.68%
Be 313.107	4354.4	0.0004	mg/L	0.00007	0.0004	mg/L	0.00007	18.04%
Co 228.616	50.7	0.0007	mg/L	0.00003	0.0007	mg/L	0.00003	4.26%
Cr 267.716	58.6	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	44.98%
Cu 324.752	-965.0	-0.0016	mg/L	0.00131	-0.0016	mg/L	0.00131	81.74%
Fe 273.955	3180.1	0.0466	mg/L	0.00896	0.0466	mg/L	0.00896	19.24%
Mg 279.077	5639.2	0.0890	mg/L	0.02427	0.0890	mg/L	0.02427	27.28%
Mn 257.610	1381.6	0.0024	mg/L	0.00006	0.0024	mg/L	0.00006	2.38%
Ni 231.604	77.9	0.0007	mg/L	0.00004	0.0007	mg/L	0.00004	5.27%
Pb 220.353	-95.3	-0.0028	mg/L	0.00018	-0.0028	mg/L	0.00018	6.47%
Sb 206.836	11.6	0.0020	mg/L	0.00014	0.0020	mg/L	0.00014	6.98%
Se 196.026	4.9	0.0013	mg/L	0.00114	0.0013	mg/L	0.00114	87.07%
Tl 190.801	2.5	0.0006	mg/L	0.00026	0.0006	mg/L	0.00026	46.43%
V 292.402	-37.1	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	9.39%
Zn 206.200	-5362.6	-0.0281	mg/L	0.00022	-0.0281	mg/L	0.00022	0.77%
Na 330.237	-20867.8	-9.3144	mg/L	0.02899	-9.3144	mg/L	0.02899	0.31%
Cd 226.502	-43.7	-0.0001	mg/L	0.00005	-0.0001	mg/L	0.00005	59.60%
Ti 334.940	6.2	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	99.29%
Ca 227.546	85.7	0.0902	mg/L	0.00901	0.0902	mg/L	0.00901	9.99%

Sequence No.: 15
Sample ID: LCS-3190,3190
Analyst:
Sample Wt:
Dilution:

LCSW

Autosampler Location: 18
Date Collected: 8/29/2002 10:07:40 AM

Sample Prep Volume:
Data Type: Original

Mean Data: LCS-3190,3190

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	489580.3	1.1791	mg/L	0.00261	1.1791	mg/L	0.00261	0.22%
Al 308.215	540054.0	9.0191	mg/L	0.00865	9.0191	mg/L	0.00865	0.10%
As 188.979	1941.2	0.4467	mg/L	0.00044	0.4467	mg/L	0.00044	0.10%
Ba 233.527	1374726.6	9.5361	mg/L	0.00451	9.5368	mg/L	0.00451	0.05%
Be 313.107	2587871.5	0.2336	mg/L	0.00169	0.2336	mg/L	0.00169	0.72%
Co 228.616	177941.0	2.4494	mg/L	0.00175	2.4494	mg/L	0.00175	0.07%
Cr 267.716	464011.6	0.9400	mg/L	0.00240	0.9400	mg/L	0.00240	0.26%
Cu 324.752	705651.9	1.1733	mg/L	0.00108	1.1733	mg/L	0.00108	0.09%
Fe 273.955	3235121.1	4.7365	mg/L	0.00136	4.7365	mg/L	0.00136	0.03%
Mg 279.077	1480905.8	23.374	mg/L	0.0413	23.374	mg/L	0.0413	0.18%
Mn 257.610	1406706.1	2.4438	mg/L	0.00250	2.4438	mg/L	0.00250	0.10%
Ni 231.604	251519.5	2.2838	mg/L	0.00964	2.2838	mg/L	0.00964	0.42%
Pb 220.353	14990.2	0.4410	mg/L	0.00052	0.4410	mg/L	0.00052	0.12%
Sb 206.836	2468.4	0.4378	mg/L	0.00013	0.4378	mg/L	0.00013	0.03%
Se 196.026	1712.1	0.4310	mg/L	0.00292	0.4310	mg/L	0.00292	0.65%
Tl 190.801	2033.5	0.4497	mg/L	0.00183	0.4497	mg/L	0.00183	0.41%
V 292.402	1104125.2	2.3121	mg/L	0.00768	2.3121	mg/L	0.00768	0.33%
Zn 206.200	450352.2	2.3594	mg/L	0.00040	2.3594	mg/L	0.00040	0.02%
Na 330.237	41206.7	18.351	mg/L	0.0132	18.351	mg/L	0.0132	0.07%
Cd 226.502	126498.4	0.2260	mg/L	0.00034	0.2260	mg/L	0.00034	0.15%
Ti 334.940	383.7	0.0003	mg/L	0.00010	0.0003	mg/L	0.00010	37.91%
Ca 227.546	22031.8	23.178	mg/L	0.0947	23.178	mg/L	0.0947	0.41%

Sequence No.: 16
Sample ID: A1274-01E,3190
Analyst:
Sample Wt:
Dilution:

11/30/02

Autosampler Location: 19
Date Collected: 8/29/2002 10:11:53 AM

Sample Prep Volume:
Data Type: Original

Mean Data: A1274-01E,3190

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-1843.1	-0.0025	mg/L	0.00004	-0.0025	mg/L	0.00004	1.77%
Al 308.215	-14447.1	-0.2413	mg/L	0.00640	-0.2413	mg/L	0.00640	2.65%
As 188.979	-4.0	-0.0001	mg/L	0.00160	-0.0001	mg/L	0.00160	>999.9%
Ba 233.527	30103.8	0.2072	mg/L	0.00297	0.2072	mg/L	0.00297	1.43%
Be 313.107	10910.5	0.0010	mg/L	0.00005	0.0010	mg/L	0.00005	5.07%
Co 228.616	498.5	0.0066	mg/L	0.00001	0.0066	mg/L	0.00001	0.12%
Cr 267.716	2411.6	0.0037	mg/L	0.00022	0.0037	mg/L	0.00022	5.99%
Cu 324.752	970.2	-0.0054	mg/L	0.00134	-0.0054	mg/L	0.00134	24.82%
Fe 273.955	1073380.0	15.803	mg/L	0.0236	15.803	mg/L	0.0236	0.15%
Mg 279.077	1642836.9	25.953	mg/L	0.0334	25.953	mg/L	0.0334	0.13%
Mn 257.610	4148202.0	7.2069	mg/L	0.00489	7.2069	mg/L	0.00489	0.07%
Ni 231.604	3462.1	0.0308	mg/L	0.00024	0.0308	mg/L	0.00024	0.79%
Pb 220.353	6.0	-0.0006	mg/L	0.00009	-0.0006	mg/L	0.00009	14.90%
Sb 206.836	-0.8	0.0004	mg/L	0.00096	0.0004	mg/L	0.00096	264.33%
Se 196.026	4.8	-0.0001	mg/L	0.00035	-0.0001	mg/L	0.00035	415.43%
Tl 190.801	-112.2	0.0071	mg/L	0.00128	0.0071	mg/L	0.00128	17.98%
V 292.402	-2.5	0.0004	mg/L	0.00009	0.0004	mg/L	0.00009	25.05%
Zn 206.200	-2373.1	-0.0163	mg/L	0.00010	-0.0163	mg/L	0.00010	0.64%
Na 330.237	530627.7	236.75	mg/L	4.031	236.75	mg/L	4.031	1.70%
Cd 226.502	465.0	0.0003	mg/L	0.00002	0.0003	mg/L	0.00002	7.78%
Tl 334.940	14944.0	0.0102	mg/L	0.00048	0.0102	mg/L	0.00048	4.75%
Ca 227.546	78855.5	83.406	mg/L	1.6125	83.406	mg/L	1.6125	1.93%

Sequence No.: 17
Sample ID: A1274-02E,3190
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 20
Date Collected: 8/29/2002 10:16:04 AM

Sample Prep Volume:
Data Type: Original

Mean Data: A1274-02E,3190

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-3307.3	-0.0016	mg/L	0.00028	-0.0016	mg/L	0.00028	18.06%
Al 308.215	210945.0	3.5228	mg/L	0.01873	3.5228	mg/L	0.01873	0.53%
As 188.979	-2.3	0.0016	mg/L	0.00028	0.0016	mg/L	0.00028	17.72%
Ba 233.527	16764.6	0.1141	mg/L	0.00016	0.1141	mg/L	0.00016	0.14%
Be 313.107	12866.1	0.0013	mg/L	0.00002	0.0013	mg/L	0.00002	1.28%
Co 228.616	4666.8	0.0637	mg/L	0.00023	0.0637	mg/L	0.00023	0.36%
Cr 267.716	5810.3	0.0102	mg/L	0.00001	0.0102	mg/L	0.00001	0.11%
Cu 324.752	9520.8	0.0071	mg/L	0.00003	0.0071	mg/L	0.00003	0.48%
Fe 273.955	2038148.2	29.840	mg/L	0.0914	29.840	mg/L	0.0914	0.31%
Mg 279.077	287139.0	4.5821	mg/L	0.01117	4.5821	mg/L	0.01117	0.24%
Mn 257.610	5876222.0	10.210	mg/L	0.0012	10.210	mg/L	0.0012	0.01%
Ni 231.604	3396.1	0.0299	mg/L	0.00015	0.0299	mg/L	0.00015	0.50%
Pb 220.353	207.2	0.0046	mg/L	0.00023	0.0046	mg/L	0.00023	5.07%
Sb 206.836	0.7	0.0014	mg/L	0.00136	0.0014	mg/L	0.00136	98.01%
Se 196.026	-11.4	-0.0030	mg/L	0.00048	-0.0030	mg/L	0.00048	15.81%
Tl 190.801	-157.8	0.0109	mg/L	0.00044	0.0109	mg/L	0.00044	4.02%
V 292.402	491.8	0.0014	mg/L	0.00003	0.0014	mg/L	0.00003	2.30%
Zn 206.200	14817.8	0.0747	mg/L	0.00025	0.0747	mg/L	0.00025	0.33%
Na 330.237	43703.6	19.510	mg/L	0.1371	19.510	mg/L	0.1371	0.70%
Cd 226.502	732.0	0.0003	mg/L	0.00007	0.0003	mg/L	0.00007	27.19%
Tl 334.940	231078.7	0.1490	mg/L	0.00020	0.1490	mg/L	0.00020	0.14%
Ca 227.546	29785.9	31.299	mg/L	0.1492	31.299	mg/L	0.1492	0.48%

Sequence No.: 18
Sample ID: A1274-02EDUP,3190
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 21
Date Collected: 8/29/2002 10:20:17 AM

Sample Prep Volume:
Data Type: Original

Mean Data: A1274-02EDUP,3190

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-3481.7	-0.0017	mg/L	0.00004	-0.0017	mg/L	0.00004	2.24%

Al 308.215	221798.2	3.7041	mg/L	0.09900	3.7041	mg/L	0.09900	2.67%
As 188.979	-1.1	0.0020	mg/L	0.00035	0.0020	mg/L	0.00035	17.27%
Ba 233.527	17505.2	0.1191	mg/L	0.00010	0.1191	mg/L	0.00010	0.09%
Be 313.107	12975.9	0.0013	mg/L	0.00002	0.0013	mg/L	0.00002	1.72%
Co 228.616	4866.0	0.0664	mg/L	0.00023	0.0664	mg/L	0.00023	0.35%
Cr 267.716	6106.6	0.0107	mg/L	0.00003	0.0107	mg/L	0.00003	0.28%
Cu 324.752	9808.5	0.0072	mg/L	0.00020	0.0072	mg/L	0.00020	2.72%
Fe 273.955	2124174.1	31.099	mg/L	0.0430	31.099	mg/L	0.0430	0.14%
Mg 279.077	299286.4	4.7760	mg/L	0.01732	4.7760	mg/L	0.01732	0.36%
Mn 257.610	6125276.9	10.642	mg/L	0.0068	10.642	mg/L	0.0068	0.06%
Ni 231.604	3532.4	0.0311	mg/L	0.00024	0.0311	mg/L	0.00024	0.76%
Pb 220.353	219.5	0.0049	mg/L	0.00048	0.0049	mg/L	0.00048	9.76%
Sb 206.836	2.7	0.0018	mg/L	0.00217	0.0018	mg/L	0.00217	121.01%
Se 196.026	-3.4	-0.0009	mg/L	0.00018	-0.0009	mg/L	0.00018	21.91%
Tl 190.801	-162.1	0.0119	mg/L	0.00053	0.0119	mg/L	0.00053	4.43%
V 292.402	425.7	0.0013	mg/L	0.00021	0.0013	mg/L	0.00021	16.67%
Zn 206.200	15602.1	0.0787	mg/L	0.00018	0.0787	mg/L	0.00018	0.23%
Na 330.237	46054.1	20.560	mg/L	0.0922	20.560	mg/L	0.0922	0.45%
Cd 226.502	729.1	0.0002	mg/L	0.00007	0.0002	mg/L	0.00007	30.71%
Tl 334.940	242687.3	0.1565	mg/L	0.00029	0.1565	mg/L	0.00029	0.18%
Ca 227.546	30819.0	32.382	mg/L	0.3272	32.382	mg/L	0.3272	1.01%

Sequence No.: 19
Sample ID: CCV0
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 8/29/2002 10:24:34 AM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV0

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	532074.8	1.2814	mg/L	0.01267	1.2814	mg/L	0.01267	0.99%
Al 308.215	576712.3	9.6313	mg/L	0.14979	9.6313	mg/L	0.14979	1.56%
As 188.979	1686.5	0.4687	mg/L	0.00324	0.4687	mg/L	0.00324	0.66%
Ba 233.527	1490048.8	10.337	mg/L	0.0958	10.337	mg/L	0.0958	0.93%
Be 313.107	2775553.3	0.2506	mg/L	0.00163	0.2506	mg/L	0.00163	0.65%
Co 228.616	193527.6	2.6640	mg/L	0.02580	2.6640	mg/L	0.02580	0.97%
Cr 267.716	495485.5	1.0038	mg/L	0.01009	1.0038	mg/L	0.01009	1.00%
Cu 324.752	772910.0	1.2852	mg/L	0.01247	1.2852	mg/L	0.01247	0.97%
Fe 273.955	348663.1	5.1047	mg/L	0.04815	5.1047	mg/L	0.04815	0.94%
Mg 279.077	1398916.1	25.237	mg/L	0.2736	25.237	mg/L	0.2736	1.08%
Mn 257.610	1509677.3	2.6227	mg/L	0.02379	2.6227	mg/L	0.02379	0.91%
Ni 231.604	270680.3	2.4578	mg/L	0.02582	2.4578	mg/L	0.02582	1.05%
Pb 220.353	16435.1	0.4834	mg/L	0.00203	0.4834	mg/L	0.00203	0.42%
Sb 206.836	2761.7	0.4897	mg/L	0.00211	0.4897	mg/L	0.00211	0.43%
Se 196.026	19031.1	0.5014	mg/L	0.00739	0.5014	mg/L	0.00739	1.47%
Tl 190.801	2230.3	0.4930	mg/L	0.01059	0.4930	mg/L	0.01059	2.15%
V 292.402	1109599.1	2.4910	mg/L	0.02755	2.4910	mg/L	0.02755	1.11%
Zn 206.200	482982.6	2.5303	mg/L	0.02244	2.5303	mg/L	0.02244	0.89%
Na 330.237	46465.6	20.696	mg/L	0.3586	20.696	mg/L	0.3586	1.73%
Cd 226.502	139326.7	0.2489	mg/L	0.00258	0.2489	mg/L	0.00258	1.04%
Tl 334.940	927.5	0.0006	mg/L	0.00006	0.0006	mg/L	0.00006	10.21%
Ca 227.546	23604.0	24.830	mg/L	0.0784	24.830	mg/L	0.0784	0.32%

Sequence No.: 20
Sample ID: CCB0
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 8/29/2002 10:27:09 AM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB0

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-1006.6	-0.0024	mg/L	0.00019	-0.0024	mg/L	0.00019	7.89%
Al 308.215	-28773.3	-0.4805	mg/L	0.25115	-0.4805	mg/L	0.25115	52.27%
As 188.979	2.2	0.0006	mg/L	0.00060	0.0006	mg/L	0.00060	93.87%
Ba 233.527	259.6	0.0018	mg/L	0.00066	0.0018	mg/L	0.00066	36.88%

Be 313.107	2106.9	0.0002	mg/L	0.00004	0.0002	mg/L	0.00004	18.50%
Co 228.616	58.6	0.0008	mg/L	0.00026	0.0008	mg/L	0.00026	32.11%
Cr 267.716	-67.6	-0.0001	mg/L	0.00016	-0.0001	mg/L	0.00016	117.67%
Cu 324.752	-3103.5	-0.0052	mg/L	0.00055	-0.0052	mg/L	0.00055	10.67%
Fe 273.955	650.6	0.0095	mg/L	0.00178	0.0095	mg/L	0.00178	18.73%
Mg 279.077	2774.9	0.0438	mg/L	0.00116	0.0438	mg/L	0.00116	2.64%
Mn 257.610	1615.3	0.0028	mg/L	0.00030	0.0028	mg/L	0.00030	10.74%
Ni 231.604	69.0	0.0006	mg/L	0.00009	0.0006	mg/L	0.00009	14.35%
Pb 220.353	-105.0	-0.0031	mg/L	0.00005	-0.0031	mg/L	0.00005	1.70%
Sb 206.836	10.6	0.0018	mg/L	0.00045	0.0018	mg/L	0.00045	24.24%
Se 196.026	3.2	0.0008	mg/L	0.00001	0.0008	mg/L	0.00001	1.27%
Tl 190.801	5.3	0.0012	mg/L	0.00013	0.0012	mg/L	0.00013	10.87%
V 292.402	182.4	0.0004	mg/L	0.00006	0.0004	mg/L	0.00006	15.30%
Zn 206.200	-5479.3	-0.0287	mg/L	0.00020	-0.0287	mg/L	0.00020	0.69%
Na 330.237	-20687.0	-9.2337	mg/L	0.00088	-9.2337	mg/L	0.00088	0.01%
Cd 226.502	-70.6	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	8.51%
Tl 334.940	-180.4	-0.0001	mg/L	0.00008	-0.0001	mg/L	0.00008	63.79%
Ca 227.546	48.4	0.0511	mg/L	0.00077	0.0511	mg/L	0.00077	1.51%

Sequence No.: 21
Sample ID: A1274-02EMS,3190
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 22
Date Collected: 8/29/2002 10:31:12 AM

Sample Prep Volume:
Data Type: Original

Mean Data: A1274-02EMS,3190

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	490211.8	1.1877	mg/L	0.01024	1.1877	mg/L	0.01024	0.86%
Al 308.215	819896.1	13.693	mg/L	0.0945	13.693	mg/L	0.0945	0.69%
As 188.979	1534.6	0.4473	mg/L	0.00141	0.4473	mg/L	0.00141	0.31%
Ba 233.527	1395957.9	9.6816	mg/L	0.04212	9.6816	mg/L	0.04212	0.44%
Be 313.107	2619136.9	0.2366	mg/L	0.00093	0.2366	mg/L	0.00093	0.39%
Co 228.616	182181.9	2.5071	mg/L	0.01939	2.5071	mg/L	0.01939	0.77%
Cr 267.716	468271.3	0.9469	mg/L	0.00662	0.9469	mg/L	0.00662	0.70%
Cu 324.752	726801.1	1.1991	mg/L	0.00673	1.1991	mg/L	0.00673	0.56%
Fe 273.955	2597125.0	38.024	mg/L	0.2081	38.024	mg/L	0.2081	0.55%
Mg 279.077	1795775.0	28.399	mg/L	0.1707	28.399	mg/L	0.1707	0.60%
Mn 257.610	7878570.9	13.688	mg/L	0.0565	13.688	mg/L	0.0565	0.41%
Ni 231.604	253909.4	2.3045	mg/L	0.00714	2.3045	mg/L	0.00714	0.31%
Pb 220.353	14904.6	0.4369	mg/L	0.00262	0.4369	mg/L	0.00262	0.60%
Sb 206.836	2354.0	0.4192	mg/L	0.00279	0.4192	mg/L	0.00279	0.66%
Se 196.026	1705.2	0.4494	mg/L	0.01708	0.4494	mg/L	0.01708	3.80%
Tl 190.801	1837.9	0.4568	mg/L	0.00257	0.4568	mg/L	0.00257	0.56%
V 292.402	1109900.6	2.3246	mg/L	0.01401	2.3246	mg/L	0.01401	0.60%
Zn 206.200	471650.9	2.4677	mg/L	0.01320	2.4677	mg/L	0.01320	0.54%
Na 330.237	121706.1	54.284	mg/L	0.3718	54.284	mg/L	0.3718	0.68%
Cd 226.502	126826.3	0.2255	mg/L	0.00156	0.2255	mg/L	0.00156	0.69%
Tl 334.940	248919.6	0.1606	mg/L	0.00291	0.1606	mg/L	0.00291	1.81%
Ca 227.546	56203.7	59.693	mg/L	0.1597	59.693	mg/L	0.1597	0.27%

Sequence No.: 22
Sample ID: A1274-02ESD,3190
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 23
Date Collected: 8/29/2002 10:33:51 AM

Sample Prep Volume:
Data Type: Original

Mean Data: A1274-02ESD,3190

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-1696.4	-0.0025	mg/L	0.00001	-0.0025	mg/L	0.00001	0.39%
Al 308.215	32245.2	0.5385	mg/L	0.13014	0.5385	mg/L	0.13014	24.17%
As 188.979	-3.2	-0.0003	mg/L	0.00069	-0.0003	mg/L	0.00069	204.89%
Ba 233.527	4348.6	0.0296	mg/L	0.00063	0.0296	mg/L	0.00063	2.14%
Be 313.107	4275.4	0.0004	mg/L	0.00005	0.0004	mg/L	0.00005	10.94%
Co 228.616	1218.8	0.0166	mg/L	0.00017	0.0166	mg/L	0.00017	1.03%
Cr 267.716	1378.5	0.0024	mg/L	0.00005	0.0024	mg/L	0.00005	2.15%

Cu 324.752	42.7	-0.0022	mg/L	0.00060	-0.0022	mg/L	0.00060	27.71%
Fe 273.955	512557.7	7.5042	mg/L	0.03296	7.5042	mg/L	0.03296	0.44%
Mg 279.077	72792.5	1.1617	mg/L	0.00188	1.1617	mg/L	0.00188	0.16%
Mn 257.610	1496496.1	2.6001	mg/L	0.01094	2.6001	mg/L	0.01094	0.42%
Ni 231.604	905.1	0.0080	mg/L	0.00012	0.0080	mg/L	0.00012	1.51%
Pb 220.353	-28.2	-0.0012	mg/L	0.00006	-0.0012	mg/L	0.00006	4.50%
Sb 206.836	6.9	0.0015	mg/L	0.00062	0.0015	mg/L	0.00062	41.21%
Se 196.026	-1.0	-0.0003	mg/L	0.00009	-0.0003	mg/L	0.00009	30.08%
Tl 190.801	-38.9	0.0031	mg/L	0.00025	0.0031	mg/L	0.00025	8.01%
V 292.402	194.6	0.0005	mg/L	0.00004	0.0005	mg/L	0.00004	8.31%
Zn 206.200	-14.8	-0.0008	mg/L	0.00020	-0.0008	mg/L	0.00020	23.86%
Na 330.237	-5664.6	-2.5275	mg/L	0.03148	-2.5275	mg/L	0.03148	1.25%
Cd 226.502	145.6	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	445.51%
Tl 334.940	57244.1	0.0369	mg/L	0.00039	0.0369	mg/L	0.00039	1.07%
Ca 227.546	7164.1	7.5250	mg/L	0.00007	7.5250	mg/L	0.00007	0.00%

Sequence No.: 23
Sample ID: A1274-02EPDS,3190
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 24
Date Collected: 8/29/2002 10:37:59 AM

Sample Prep Volume:
Data Type: Original

Mean Data: A1274-02EPDS,3190

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	432575.5	1.0488	mg/L	0.00728	1.0488	mg/L	0.00728	0.69%
Al 308.215	758110.6	12.661	mg/L	0.0271	12.661	mg/L	0.0271	0.21%
As 188.979	1452.9	0.4230	mg/L	0.00526	0.4230	mg/L	0.00526	1.24%
Ba 233.527	1228433.0	8.5195	mg/L	0.04910	8.5195	mg/L	0.04910	0.58%
Be 313.107	2306665.5	0.2084	mg/L	0.00231	0.2084	mg/L	0.00231	1.11%
Co 228.616	160980.5	2.2139	mg/L	0.01549	2.2139	mg/L	0.01549	0.70%
Cr 267.716	411013.1	0.8310	mg/L	0.00489	0.8310	mg/L	0.00489	0.59%
Cu 324.752	636304.3	1.0486	mg/L	0.00705	1.0486	mg/L	0.00705	0.67%
Fe 273.955	2511979.7	36.777	mg/L	0.2117	36.777	mg/L	0.2117	0.58%
Mg 279.077	1610941.5	25.481	mg/L	0.1343	25.481	mg/L	0.1343	0.53%
Mn 257.610	7591963.3	13.191	mg/L	0.0716	13.191	mg/L	0.0716	0.54%
Ni 231.604	222175.7	2.0164	mg/L	0.01027	2.0164	mg/L	0.01027	0.51%
Pb 220.353	14948.4	0.4117	mg/L	0.00370	0.4117	mg/L	0.00370	0.96%
Sb 206.836	2352.0	0.4183	mg/L	0.01191	0.4183	mg/L	0.01191	2.85%
Se 196.026	1565.7	0.4126	mg/L	0.00723	0.4126	mg/L	0.00723	1.75%
Tl 190.801	1718.0	0.4292	mg/L	0.00736	0.4292	mg/L	0.00736	1.71%
V 292.402	971802.5	2.0354	mg/L	0.01164	2.0354	mg/L	0.01164	0.57%
Zn 206.200	416673.8	2.1797	mg/L	0.01239	2.1797	mg/L	0.01239	0.57%
Na 330.237	110927.9	49.480	mg/L	0.1911	49.480	mg/L	0.1911	0.39%
Cd 226.502	117618.2	0.2090	mg/L	0.00122	0.2090	mg/L	0.00122	0.58%
Tl 334.940	259283.1	0.1672	mg/L	0.00120	0.1672	mg/L	0.00120	0.72%
Ca 227.546	53126.0	55.859	mg/L	1.0652	55.858	mg/L	0.0652	1.91%

Sequence No.: 24
Sample ID: A1243-02D,3190
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 25
Date Collected: 8/29/2002 10:40:32 AM

Sample Prep Volume:
Data Type: Original

Mean Data: A1243-02D,3190

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-1518.0	-0.0051	mg/L	0.00022	-0.0051	mg/L	0.00022	4.37%
Al 308.215	725124.8	12.110	mg/L	0.2059	12.110	mg/L	0.2059	1.70%
As 188.979	-4.9	0.0003	mg/L	0.00035	0.0003	mg/L	0.00035	106.20%
Ba 233.527	43017.6	0.2962	mg/L	0.00331	0.2962	mg/L	0.00331	1.12%
Be 313.107	-4041.2	0.0005	mg/L	0.00000	0.0005	mg/L	0.00000	0.07%
Co 228.616	1302.3	0.0165	mg/L	0.00001	0.0165	mg/L	0.00001	0.04%
Cr 267.716	12416.9	0.0241	mg/L	0.00056	0.0241	mg/L	0.00056	2.32%
Cu 324.752	12333.8	0.0135	mg/L	0.00102	0.0135	mg/L	0.00102	7.57%
Fe 273.955	1268192.9	18.567	mg/L	0.2292	18.567	mg/L	0.2292	1.23%
Mg 279.077	14640249.6	230.99	mg/L	0.205	230.99	mg/L	0.205	0.09%

Mn 257.610	3789693.2	6.5807 mg/L	0.00370	6.5807 mg/L	0.00370	0.06%
Ni 231.604	2557.1	0.0224 mg/L	0.00005	0.0224 mg/L	0.00005	0.20%
Pb 220.353	6.5	0.0020 mg/L	0.00004	0.0020 mg/L	0.00004	2.04%
Sb 206.836	2.5	0.0024 mg/L	0.00014	0.0024 mg/L	0.00014	5.89%
Se 196.026	-11.1	-0.0023 mg/L	0.00035	-0.0023 mg/L	0.00035	15.20%
Tl 190.801	-110.8	0.0072 mg/L	0.00054	0.0072 mg/L	0.00054	7.49%
V 292.402	13201.0	0.0275 mg/L	0.00021	0.0275 mg/L	0.00021	0.78%
Zn 206.200	2998.3	-0.0053 mg/L	0.00014	-0.0053 mg/L	0.00014	2.58%
Na 330.237	5932651.6	2648.0 mg/L	0.24	2648.0 mg/L	0.24	0.01%
Cd 226.502	558.0	0.0004 mg/L	0.00001	0.0004 mg/L	0.00001	3.67%
Ti 334.940	1311289.5	0.8463 mg/L	0.01152	0.8463 mg/L	0.01152	1.36%
Ca 227.546	255380.1	270.40 mg/L	4.794	270.40 mg/L	4.794	1.77%

Sequence No.: 25
Sample ID: A1243-03D,3190 MW-9D
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 26
Date Collected: 8/29/2002 10:44:41 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-03D,3190

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	-3658.3	-0.0038 mg/L	0.00040	-0.0038 mg/L	0.00040	10.53%
Al 308.215	1310417.3	25.224 mg/L	0.2473	25.224 mg/L	0.2473	0.98%
As 188.979	-7.4	0.0028 mg/L	0.00591	0.0028 mg/L	0.00591	212.01%
Ba 233.527	48800.9	0.3353 mg/L	0.00230	0.3353 mg/L	0.00230	0.68%
Be 313.107	-10277.2	0.0009 mg/L	0.00001	0.0009 mg/L	0.00001	0.71%
Co 228.616	1905.9	0.0232 mg/L	0.00043	0.0232 mg/L	0.00043	1.85%
Cr 267.716	26231.9	0.0528 mg/L	0.00026	0.0528 mg/L	0.00026	0.50%
Cu 324.752	26351.6	0.0419 mg/L	0.00059	0.0419 mg/L	0.00059	1.40%
Fe 273.955	3095273.1	45.317 mg/L	0.2871	45.317 mg/L	0.2871	0.63%
Mg 279.077	16818342.1	265.34 mg/L	1.203	265.34 mg/L	1.283	0.48%
Mn 257.610	2847179.8	4.9433 mg/L	0.02799	4.9433 mg/L	0.02799	0.57%
Ni 231.604	4218.7	0.0374 mg/L	0.00071	0.0374 mg/L	0.00071	1.90%
Pb 220.353	201.5	0.0091 mg/L	0.00102	0.0091 mg/L	0.00102	11.17%
Sb 206.836	2.7	0.0059 mg/L	0.00009	0.0059 mg/L	0.00009	1.47%
Se 196.026	-37.3	-0.0004 mg/L	0.00117	-0.0004 mg/L	0.00117	279.17%
Tl 190.801	-99.7	0.0056 mg/L	0.00601	0.0056 mg/L	0.00601	107.30%
V 292.402	28824.4	0.0594 mg/L	0.00041	0.0594 mg/L	0.00041	0.69%
Zn 206.200	12026.4	0.0383 mg/L	0.00011	0.0383 mg/L	0.00011	0.28%
Na 330.237	6473631.8	2889.7 mg/L	8.95	2889.7 mg/L	8.95	0.31%
Cd 226.502	1434.6	0.0010 mg/L	0.00001	0.0010 mg/L	0.00001	0.97%
Ti 334.940	2752171.4	1.7741 mg/L	0.00537	1.7741 mg/L	0.00537	0.30%
Ca 227.546	252592.0	267.22 mg/L	2.577	267.22 mg/L	2.577	0.96%

Sequence No.: 26
Sample ID: A1243-06C,3190 MW-15
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 27
Date Collected: 8/29/2002 10:47:15 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-06C,3190

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	-1324.8	-0.0031 mg/L	0.00026	-0.0031 mg/L	0.00026	8.34%
Al 308.215	-16220.5	-0.2709 mg/L	0.04697	-0.2709 mg/L	0.04697	17.34%
As 188.979	24.4	0.0074 mg/L	0.00008	0.0074 mg/L	0.00008	1.04%
Ba 233.527	9033.3	0.0622 mg/L	0.00043	0.0622 mg/L	0.00043	0.70%
Be 313.107	1355.7	0.0001 mg/L	0.00000	0.0001 mg/L	0.00000	0.57%
Co 228.616	340.2	0.0046 mg/L	0.00002	0.0046 mg/L	0.00002	0.43%
Cr 267.716	1531.4	0.0031 mg/L	0.00014	0.0031 mg/L	0.00014	4.47%
Cu 324.752	-2501.9	-0.0041 mg/L	0.00018	-0.0041 mg/L	0.00018	4.33%
Fe 273.955	344689.2	5.0465 mg/L	0.04620	5.0465 mg/L	0.04620	0.92%
Mg 279.077	1891104.7	29.835 mg/L	0.1839	29.835 mg/L	0.1839	0.62%
Mn 257.610	242131.8	0.4203 mg/L	0.00392	0.4203 mg/L	0.00392	0.93%
Ni 231.604	428.9	0.0039 mg/L	0.00004	0.0039 mg/L	0.00004	1.14%
Pb 220.353	-61.5	-0.0016 mg/L	0.00022	-0.0016 mg/L	0.00022	13.91%

Sb 206.836	8.1	0.0018 mg/L	0.00055	0.0018 mg/L	0.00055	29.79%
Se 196.026	-4.6	0.0000 mg/L	0.00019	0.0000 mg/L	0.00019	>999.9%
Tl 190.801	-16.2	-0.0013 mg/L	0.00027	-0.0013 mg/L	0.00027	19.78%
V 292.402	3805.7	0.0080 mg/L	0.00033	0.0080 mg/L	0.00033	4.11%
Zn 206.200	-3710.9	-0.0221 mg/L	0.00009	-0.0221 mg/L	0.00009	0.40%
Na 330.237	1004123.3	448.14 mg/L	5.347	448.14 mg/L	5.347	1.19%
Cd 226.502	196.1	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	4.47%
Ti 334.940	13480.9	0.0090 mg/L	0.00029	0.0090 mg/L	0.00029	3.24%
Ca 227.546	48623.8	51.470 mg/L	0.6848	51.470 mg/L	0.6848	1.33%

Sequence No.: 27
Sample ID: A1243-08C,3190 MW-7
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 28
Date Collected: 8/29/2002 10:51:18 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-08C,3190

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	-1860.4	-0.0026 mg/L	0.00024	-0.0026 mg/L	0.00024	9.15%
Al 308.215	151378.6	2.5281 mg/L	0.00420	2.5281 mg/L	0.00420	0.17%
As 188.979	9.0	0.0034 mg/L	0.00044	0.0034 mg/L	0.00044	12.77%
Ba 233.527	8538.2	0.0583 mg/L	0.00020	0.0583 mg/L	0.00020	0.35%
Be 313.107	462.3	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	7.62%
Co 228.616	270.1	0.0034 mg/L	0.00001	0.0034 mg/L	0.00001	0.24%
Cr 267.716	4610.7	0.0087 mg/L	0.00007	0.0087 mg/L	0.00007	0.85%
Cu 324.752	4241.9	0.0034 mg/L	0.00024	0.0034 mg/L	0.00024	7.13%
Fe 273.955	750276.7	10.985 mg/L	0.1142	10.985 mg/L	0.1142	1.04%
Mg 279.077	2086851.7	32.942 mg/L	0.3196	32.942 mg/L	0.3196	0.97%
Mn 257.610	2305348.7	4.0049 mg/L	0.04112	4.0049 mg/L	0.04112	1.03%
Ni 231.604	747.3	0.0064 mg/L	0.00011	0.0064 mg/L	0.00011	1.79%
Pb 220.353	33.3	0.0007 mg/L	0.00041	0.0007 mg/L	0.00041	62.92%
Sb 206.836	3.6	0.0012 mg/L	0.00071	0.0012 mg/L	0.00071	60.57%
Se 196.026	-10.1	-0.0028 mg/L	0.00018	-0.0028 mg/L	0.00018	6.44%
Tl 190.801	-73.0	0.0021 mg/L	0.00102	0.0021 mg/L	0.00102	4.97%
V 292.402	2898.3	0.0062 mg/L	0.00011	0.0062 mg/L	0.00011	1.74%
Zn 206.200	-398.4	-0.0058 mg/L	0.00001	-0.0058 mg/L	0.00001	0.13%
Na 330.237	956160.4	426.78 mg/L	4.468	426.78 mg/L	4.468	1.05%
Cd 226.502	676.7	0.0008 mg/L	0.00002	0.0008 mg/L	0.00002	2.48%
Ti 334.940	202021.4	0.1303 mg/L	0.00297	0.1303 mg/L	0.00297	2.28%
Ca 227.546	32231.4	34.053 mg/L	0.4491	34.053 mg/L	0.4491	1.32%

Sequence No.: 28
Sample ID: CCV1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 8/29/2002 10:55:21 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	530835.3	1.2784 mg/L	0.00452	1.2784 mg/L	0.00452	0.35%
Al 308.215	583269.9	9.7408 mg/L	0.05829	9.7408 mg/L	0.05829	0.60%
As 188.979	1718.5	0.4977 mg/L	0.00482	0.4977 mg/L	0.00482	0.97%
Ba 233.527	1502052.0	10.420 mg/L	0.0525	10.420 mg/L	0.0525	0.50%
Be 313.107	2815087.3	0.2541 mg/L	0.00040	0.2541 mg/L	0.00040	0.16%
Co 228.616	193056.4	2.6575 mg/L	0.00978	2.6575 mg/L	0.00978	0.37%
Cr 267.716	497202.4	1.0072 mg/L	0.00445	1.0072 mg/L	0.00445	0.44%
Cu 324.752	776976.1	1.2920 mg/L	0.00764	1.2920 mg/L	0.00764	0.59%
Fe 273.955	349908.6	5.1229 mg/L	0.02410	5.1229 mg/L	0.02410	0.47%
Mg 279.077	1607774.0	25.377 mg/L	0.1257	25.377 mg/L	0.1257	0.50%
Mn 257.610	1507218.4	2.6184 mg/L	0.00986	2.6184 mg/L	0.00986	0.38%
Ni 231.604	273859.5	2.4867 mg/L	0.02429	2.4867 mg/L	0.02429	0.98%
Pb 220.353	16414.5	0.4828 mg/L	0.00209	0.4828 mg/L	0.00209	0.43%
Sb 206.836	2783.9	0.4936 mg/L	0.00250	0.4936 mg/L	0.00250	0.51%
Se 196.026	1898.0	0.5001 mg/L	0.01399	0.5001 mg/L	0.01399	2.80%
Tl 190.801	2262.2	0.4999 mg/L	0.00553	0.4999 mg/L	0.00553	1.11%

V 292.402	1196436.3	2.5053 mg/L	0.01487	2.5053 mg/L	0.01487	0.59%
Zn 206.200	485037.8	2.5411 mg/L	0.01021	2.5411 mg/L	0.01021	0.40%
Na 330.237	47267.1	21.054 mg/L	0.0722	21.054 mg/L	0.0722	0.34%
Cd 226.502	139820.6	0.2499 mg/L	0.00140	0.2499 mg/L	0.00140	0.56%
Ti 334.940	93.2	0.0006 mg/L	0.00001	0.0006 mg/L	0.00001	2.01%
Ca 227.546	23459.6	24.676 mg/L	0.2214	24.676 mg/L	0.2214	0.90%

Sequence No.: 29
Sample ID: CCB1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 8/29/2002 10:57:55 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	-1113.3	-0.0027 mg/L	0.00022	-0.0027 mg/L	0.00022	8.09%
Al 308.215	-33910.0	-0.5664 mg/L	0.00208	-0.5664 mg/L	0.00208	0.37%
As 188.979	-2.8	-0.0008 mg/L	0.00050	-0.0008 mg/L	0.00050	64.15%
Ba 233.527	460.6	0.0032 mg/L	0.00097	0.0032 mg/L	0.00097	30.29%
Be 313.107	1211.3	0.0001 mg/L	0.00000	0.0001 mg/L	0.00000	1.40%
Co 228.616	79.6	0.0011 mg/L	0.00028	0.0011 mg/L	0.00028	25.58%
Cr 267.716	0.6	0.0000 mg/L	0.00010	0.0000 mg/L	0.00010	>999.9%
Cu 324.752	-3460.3	-0.0058 mg/L	0.00025	-0.0058 mg/L	0.00025	4.37%
Fe 273.955	295.4	0.0043 mg/L	0.00019	0.0043 mg/L	0.00019	4.47%
Mg 279.077	3743.8	0.0591 mg/L	0.00291	0.0591 mg/L	0.00291	4.93%
Mn 257.610	1401.6	0.0024 mg/L	0.00031	0.0024 mg/L	0.00031	12.78%
Ni 231.604	83.2	0.0008 mg/L	0.00015	0.0008 mg/L	0.00015	19.69%
Pb 220.353	-106.9	-0.0032 mg/L	0.00055	-0.0032 mg/L	0.00055	17.33%
Sb 206.836	6.5	0.0011 mg/L	0.00043	0.0011 mg/L	0.00043	38.03%
Se 196.026	-1.4	-0.0004 mg/L	0.00164	-0.0004 mg/L	0.00164	454.83%
Tl 190.801	-0.3	0.0000 mg/L	0.00028	0.0000 mg/L	0.00028	636.70%
V 292.402	178.6	0.0004 mg/L	0.00028	0.0004 mg/L	0.00028	74.93%
Zn 206.200	-5426.8	-0.0284 mg/L	0.00027	-0.0284 mg/L	0.00027	0.95%
Na 330.237	-20590.4	-9.1906 mg/L	0.02414	-9.1906 mg/L	0.02414	0.26%
Cd 226.502	-41.8	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	26.35%
Ti 334.940	-201.9	-0.0001 mg/L	0.00004	-0.0001 mg/L	0.00004	33.52%
Ca 227.546	41.6	0.0438 mg/L	0.00872	0.0438 mg/L	0.00872	19.89%

Sequence No.: 30
Sample ID: A1243-10C,3190 MW-30
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 29
Date Collected: 8/29/2002 11:01:58 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-10C,3190

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	-2207.7	-0.0026 mg/L	0.00020	-0.0026 mg/L	0.00020	7.49%
Al 308.215	51194.8	0.8550 mg/L	0.14322	0.8550 mg/L	0.14322	16.75%
As 188.979	19.1	0.0066 mg/L	0.00001	0.0066 mg/L	0.00001	0.17%
Ba 233.527	7680.9	0.0525 mg/L	0.00021	0.0525 mg/L	0.00021	0.40%
Be 313.107	-49.4	0.0001 mg/L	0.00000	0.0001 mg/L	0.00000	3.88%
Co 228.616	210.6	0.0026 mg/L	0.00009	0.0026 mg/L	0.00009	3.52%
Cr 267.716	1519.8	0.0028 mg/L	0.00007	0.0028 mg/L	0.00007	2.51%
Cu 324.752	-3134.6	-0.0062 mg/L	0.00028	-0.0062 mg/L	0.00028	4.52%
Fe 273.955	896320.2	13.123 mg/L	0.0834	13.123 mg/L	0.0834	0.64%
Mg 279.077	1155714.0	18.211 mg/L	0.1054	18.211 mg/L	0.1054	0.58%
Mn 257.610	1231776.8	2.1400 mg/L	0.00837	2.1400 mg/L	0.00837	0.39%
Ni 231.604	291.4	0.0024 mg/L	0.00021	0.0024 mg/L	0.00021	8.85%
Pb 220.353	-69.7	-0.0023 mg/L	0.00016	-0.0023 mg/L	0.00016	6.77%
Sb 206.836	-0.3	0.0008 mg/L	0.00067	0.0008 mg/L	0.00067	84.04%
Se 196.026	-15.5	-0.0021 mg/L	0.00113	-0.0021 mg/L	0.00113	54.02%
Tl 190.801	-41.1	0.0011 mg/L	0.00017	0.0011 mg/L	0.00017	15.21%
V 292.402	1527.4	0.0032 mg/L	0.00023	0.0032 mg/L	0.00023	7.11%
Zn 206.200	-4021.5	-0.0233 mg/L	0.00026	-0.0233 mg/L	0.00026	0.27%
Na 330.237	740756.0	330.65 mg/L	2.408	330.65 mg/L	2.408	0.73%

Cd 226.502	279.7	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	13.56%
Ti 334.940	150607.5	0.0971 mg/L	0.00100	0.0971 mg/L	0.00100	1.03%
Ca 227.546	18773.4	19.776 mg/L	0.1299	19.776 mg/L	0.1299	0.66%

Sequence No.: 31
Sample ID: A1243-12B,3190 MW-28
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 30
Date Collected: 8/29/2002 11:06:01 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-12B,3190

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	-1666.6	-0.0031 mg/L	0.00031	-0.0031 mg/L	0.00031	10.17%
Al 308.215	-16070.4	-0.2684 mg/L	0.00048	-0.2684 mg/L	0.00048	0.18%
As 188.979	10.4	0.0033 mg/L	0.00116	0.0033 mg/L	0.00116	34.65%
Ba 233.527	7710.9	0.0526 mg/L	0.00034	0.0526 mg/L	0.00034	0.65%
Be 313.107	445.8	0.0001 mg/L	0.00000	0.0001 mg/L	0.00000	4.91%
Co 228.616	157.4	0.0020 mg/L	0.00003	0.0020 mg/L	0.00003	1.64%
Cr 267.716	1006.9	0.0012 mg/L	0.00020	0.0012 mg/L	0.00020	17.00%
Cu 324.752	-2849.1	-0.0101 mg/L	0.00012	-0.0101 mg/L	0.00012	1.15%
Fe 273.955	516102.3	7.5561 mg/L	0.02663	7.5561 mg/L	0.02663	0.35%
Mg 279.077	2194235.3	34.641 mg/L	0.1936	34.641 mg/L	0.1936	0.56%
Mn 257.610	2909752.8	5.0549 mg/L	0.02892	5.0549 mg/L	0.02892	0.57%
Ni 231.604	560.9	0.0046 mg/L	0.00003	0.0046 mg/L	0.00003	0.69%
Pb 220.353	-72.7	-0.0028 mg/L	0.00003	-0.0028 mg/L	0.00003	1.24%
Sb 206.836	0.7	0.0001 mg/L	0.00029	0.0001 mg/L	0.00029	508.91%
Se 196.026	-1.0	-0.0022 mg/L	0.00080	-0.0022 mg/L	0.00080	37.30%
Tl 190.801	-86.8	0.0033 mg/L	0.00010	0.0033 mg/L	0.00010	3.01%
V 292.402	416.8	0.0011 mg/L	0.00002	0.0011 mg/L	0.00002	1.75%
Zn 206.200	-3630.4	-0.0229 mg/L	0.00000	-0.0229 mg/L	0.00000	0.02%
Na 330.237	976383.0	435.85 mg/L	1.797	435.85 mg/L	1.797	0.41%
Cd 226.502	166.9	0.0000 mg/L	0.00000	0.0000 mg/L	0.00000	10.34%
Ti 334.940	25713.2	0.0168 mg/L	0.00008	0.0168 mg/L	0.00008	0.48%
Ca 227.546	37388.1	39.545 mg/L	0.1802	39.545 mg/L	0.1802	0.46%

Sequence No.: 32
Sample ID: A1243-14A,3190 MW-9
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 31
Date Collected: 8/29/2002 11:10:08 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1243-14A,3190

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	-1510.1	-0.0035 mg/L	0.00004	-0.0035 mg/L	0.00004	1.23%
Al 308.215	-23695.2	-0.3957 mg/L	0.01085	-0.3957 mg/L	0.01085	2.74%
As 188.979	48.7	0.0149 mg/L	0.00009	0.0149 mg/L	0.00009	0.63%
Ba 233.527	10333.9	0.0708 mg/L	0.00034	0.0708 mg/L	0.00034	0.48%
Be 313.107	536.6	0.0002 mg/L	0.00000	0.0002 mg/L	0.00000	0.92%
Co 228.616	109.3	0.0013 mg/L	0.00006	0.0013 mg/L	0.00006	4.30%
Cr 267.716	1500.0	0.0030 mg/L	0.00010	0.0030 mg/L	0.00010	3.31%
Cu 324.752	-3674.0	-0.0061 mg/L	0.00022	-0.0061 mg/L	0.00022	3.60%
Fe 273.955	742774.2	10.875 mg/L	0.1305	10.875 mg/L	0.1305	1.20%
Mg 279.077	2975833.2	46.950 mg/L	0.5866	46.950 mg/L	0.5866	1.25%
Mn 257.610	552833.1	0.9599 mg/L	0.01127	0.9599 mg/L	0.01127	1.17%
Ni 231.604	254.8	0.0022 mg/L	0.00002	0.0022 mg/L	0.00002	1.00%
Pb 220.353	-146.1	-0.0038 mg/L	0.00006	-0.0038 mg/L	0.00006	1.62%
Sb 206.836	5.2	0.0019 mg/L	0.00001	0.0019 mg/L	0.00001	0.73%
Se 196.026	-16.7	-0.0020 mg/L	0.00034	-0.0020 mg/L	0.00034	17.57%
Tl 190.801	-30.1	-0.0018 mg/L	0.00054	-0.0018 mg/L	0.00054	30.36%
V 292.402	4394.8	0.0092 mg/L	0.00014	0.0092 mg/L	0.00014	1.56%
Zn 206.200	-4810.0	-0.0296 mg/L	0.00006	-0.0296 mg/L	0.00006	0.22%
Na 330.237	2105982.1	939.90 mg/L	12.994	939.90 mg/L	12.994	1.38%
Cd 226.502	264.2	0.0001 mg/L	0.00000	0.0001 mg/L	0.00000	2.94%
Ti 334.940	21816.5	0.0148 mg/L	0.00017	0.0148 mg/L	0.00017	1.18%
Ca 227.546	105680.1	111.87 mg/L	1.491	111.87 mg/L	1.491	1.33%

Sequence No.: 33 Autosampler Location: 32
Sample ID: A1243-15C,3190 MW-13 Date Collected: 8/29/2002 11:14:12 AM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: A1243-15C,3190

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-1400.3	-0.0031	mg/L	0.00004	-0.0031	mg/L	0.00004	1.39%
Al 308.215	106907.6	1.7854	mg/L	0.02914	1.7854	mg/L	0.02914	1.63%
As 188.979	2.7	0.0008	mg/L	0.00019	0.0008	mg/L	0.00019	22.66%
Ba 233.527	18200.2	0.1255	mg/L	0.00164	0.1255	mg/L	0.00164	1.30%
Be 313.107	1094.7	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	0.55%
Co 228.616	1197.1	0.0163	mg/L	0.00034	0.0163	mg/L	0.00034	2.08%
Cr 267.716	2703.8	0.0045	mg/L	0.00005	0.0045	mg/L	0.00005	1.16%
Cu 324.752	2935.2	-0.0015	mg/L	0.00058	-0.0015	mg/L	0.00058	38.38%
Fe 273.955	298402.2	4.3688	mg/L	0.03572	4.3688	mg/L	0.03572	0.82%
Mg 279.077	2528165.4	39.911	mg/L	0.1733	39.911	mg/L	0.1733	0.43%
Mn 257.610	3152815.7	5.4770	mg/L	0.02405	5.4770	mg/L	0.02405	0.44%
Ni 231.604	536.2	0.0043	mg/L	0.00008	0.0043	mg/L	0.00008	1.74%
Pb 220.353	-48.0	-0.0019	mg/L	0.00010	-0.0019	mg/L	0.00010	5.61%
Sb 206.836	6.9	0.0010	mg/L	0.00054	0.0010	mg/L	0.00054	55.22%
Se 196.026	5.9	-0.0016	mg/L	0.00105	-0.0016	mg/L	0.00105	66.66%
Tl 190.801	-90.0	0.0043	mg/L	0.00114	0.0043	mg/L	0.00114	26.32%
V 292.402	3359.0	0.0073	mg/L	0.00014	0.0073	mg/L	0.00014	1.97%
Zn 206.200	-3475.9	-0.0226	mg/L	0.00014	-0.0226	mg/L	0.00014	0.61%
Na 330.237	1171128.1	522.71	mg/L	4.911	522.71	mg/L	4.911	0.94%
Cd 226.502	301.4	0.0004	mg/L	0.00001	0.0004	mg/L	0.00001	2.17%
Tl 334.940	193211.3	0.1247	mg/L	0.00138	0.1247	mg/L	0.00138	1.11%
Ca 227.546	34492.7	36.506	mg/L	0.2809	36.506	mg/L	0.2809	0.77%

Sequence No.: 34 Autosampler Location: 33
Sample ID: A1243-16C,3190 MW-26 Date Collected: 8/29/2002 11:18:21 AM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: A1243-16C,3190

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-1295.1	-0.0032	mg/L	0.00009	-0.0032	mg/L	0.00009	2.71%
Al 308.215	53282.5	0.8898	mg/L	0.05048	0.8898	mg/L	0.05048	5.67%
As 188.979	-2.3	-0.0007	mg/L	0.00074	-0.0007	mg/L	0.00074	101.03%
Ba 233.527	18519.1	0.1277	mg/L	0.00057	0.1277	mg/L	0.00057	0.45%
Be 313.107	1521.7	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	4.17%
Co 228.616	1228.6	0.0168	mg/L	0.00007	0.0168	mg/L	0.00007	0.43%
Cr 267.716	1614.6	0.0022	mg/L	0.00033	0.0022	mg/L	0.00033	14.88%
Cu 324.752	1331.2	-0.0045	mg/L	0.00021	-0.0045	mg/L	0.00021	4.70%
Fe 273.955	213230.6	3.1219	mg/L	0.08384	3.1219	mg/L	0.08384	2.69%
Mg 279.077	2582546.5	40.770	mg/L	0.6865	40.770	mg/L	0.6865	1.68%
Mn 257.610	3239059.4	5.6268	mg/L	0.10612	5.6268	mg/L	0.10612	1.89%
Ni 231.604	437.2	0.0035	mg/L	0.00011	0.0035	mg/L	0.00011	3.13%
Pb 220.353	-59.0	-0.0024	mg/L	0.00002	-0.0024	mg/L	0.00002	0.84%
Sb 206.836	6.2	0.0007	mg/L	0.00049	0.0007	mg/L	0.00049	73.68%
Se 196.026	4.9	-0.0023	mg/L	0.00079	-0.0023	mg/L	0.00079	34.21%
Tl 190.801	-94.2	0.0039	mg/L	0.00035	0.0039	mg/L	0.00035	8.85%
V 292.402	2264.8	0.0051	mg/L	0.00009	0.0051	mg/L	0.00009	1.78%
Zn 206.200	-4322.4	-0.0270	mg/L	0.00004	-0.0270	mg/L	0.00004	0.14%
Na 330.237	1210080.2	540.07	mg/L	9.167	540.07	mg/L	9.167	1.70%
Cd 226.502	246.7	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	3.76%
Tl 334.940	110533.8	0.0714	mg/L	0.00200	0.0714	mg/L	0.00200	2.81%
Ca 227.546	35253.2	37.322	mg/L	1.1835	37.322	mg/L	1.1835	3.17%

Sequence No.: 35 Autosampler Location: 5

Sample ID: ICSA1 Date Collected: 8/29/2002 11:22:30 AM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: ICSA1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-13157.5	-0.0007	mg/L	0.00009	-0.0007	mg/L	0.00009	14.28%
Al 308.215	30725453.1	513.12	mg/L	1.798	513.12	mg/L	1.798	0.35%
As 188.979	-39.6	-0.0026	mg/L	0.00508	-0.0026	mg/L	0.00508	195.89%
Ba 233.527	1502.1	0.0010	mg/L	0.00097	0.0010	mg/L	0.00097	97.54%
Be 313.107	362.1	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	12.66%
Co 228.616	132.7	0.0009	mg/L	0.00026	0.0009	mg/L	0.00026	27.81%
Cr 267.716	-349.2	0.0015	mg/L	0.00031	0.0015	mg/L	0.00031	0.59%
Cu 324.752	-14919.7	-0.0019	mg/L	0.00019	-0.0019	mg/L	0.00019	10.30%
Fe 273.955	12123856.5	177.50	mg/L	0.299	177.50	mg/L	0.299	0.17%
Mg 279.077	30291936.8	477.87	mg/L	0.651	477.87	mg/L	0.651	0.14%
Mn 257.610	-4818.8	-0.0083	mg/L	0.00008	-0.0083	mg/L	0.00008	0.95%
Ni 231.604	254.3	0.0023	mg/L	0.00040	0.0023	mg/L	0.00040	17.24%
Pb 220.353	-1546.7	-0.0044	mg/L	0.00189	-0.0044	mg/L	0.00189	43.24%
Sb 206.836	-119.1	0.0154	mg/L	0.00449	0.0154	mg/L	0.00449	29.15%
Se 196.026	-221.2	-0.0073	mg/L	0.01263	-0.0073	mg/L	0.01263	173.31%
Tl 190.801	23.0	0.0051	mg/L	0.00314	0.0051	mg/L	0.00314	61.73%
V 292.402	-344.4	-0.0022	mg/L	0.00054	-0.0022	mg/L	0.00054	24.22%
Zn 206.200	900.8	-0.0386	mg/L	0.00021	-0.0386	mg/L	0.00021	0.54%
Na 330.237	-18815.7	-8.6451	mg/L	0.04944	-8.6451	mg/L	0.04944	0.57%
Cd 226.502	5171.3	0.0030	mg/L	0.00016	0.0030	mg/L	0.00016	5.28%
Tl 334.940	-8366.3	-0.0018	mg/L	0.00006	-0.0018	mg/L	0.00006	3.36%
Ca 227.546	487043.7	514.69	mg/L	0.878	514.69	mg/L	0.878	0.17%

Sequence No.: 36 Autosampler Location: 6
Sample ID: ICSAB1 Date Collected: 8/29/2002 11:25:09 AM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: ICSAB1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	59518.8	0.1739	mg/L	0.00050	0.1739	mg/L	0.00050	0.29%
Al 308.215	30313721.6	506.25	mg/L	1.277	506.25	mg/L	1.277	0.25%
As 188.979	269.3	0.0896	mg/L	0.00651	0.0896	mg/L	0.00651	7.26%
Ba 233.527	74681.4	0.5097	mg/L	0.00414	0.5097	mg/L	0.00414	0.81%
Be 313.107	557834.5	0.5036	mg/L	0.00154	0.5036	mg/L	0.00154	0.31%
Co 228.616	34946.3	0.4801	mg/L	0.00722	0.4801	mg/L	0.00722	1.50%
Cr 267.716	243030.6	0.4945	mg/L	0.00305	0.4945	mg/L	0.00305	0.62%
Cu 324.752	355380.7	0.5809	mg/L	0.00462	0.5809	mg/L	0.00462	0.80%
Fe 273.955	11924567.0	174.58	mg/L	0.384	174.58	mg/L	0.384	0.22%
Mg 279.077	29842350.9	467.62	mg/L	0.946	467.62	mg/L	0.946	0.20%
Mn 257.610	291041.4	0.5058	mg/L	0.00203	0.5058	mg/L	0.00203	0.40%
Ni 231.604	99010.5	0.8991	mg/L	0.00620	0.8991	mg/L	0.00620	0.69%
Pb 220.353	13343.9	0.4321	mg/L	0.00506	0.4321	mg/L	0.00506	1.17%
Sb 206.836	3019.2	0.5670	mg/L	0.00548	0.5670	mg/L	0.00548	0.97%
Se 196.026	1668.3	0.4904	mg/L	0.02479	0.4904	mg/L	0.02479	5.06%
Tl 190.801	398.4	0.0880	mg/L	0.00131	0.0880	mg/L	0.00131	1.49%
V 292.402	238365.8	0.4983	mg/L	0.00358	0.4983	mg/L	0.00358	0.72%
Zn 206.200	179328.2	0.8981	mg/L	0.00709	0.8981	mg/L	0.00709	0.79%
Na 330.237	115593.9	51.351	mg/L	0.3729	51.351	mg/L	0.3729	0.73%
Cd 226.502	514240.6	0.9116	mg/L	0.00426	0.9116	mg/L	0.00426	0.47%
Tl 334.940	-7857.2	-0.0016	mg/L	0.00009	-0.0016	mg/L	0.00009	5.86%
Ca 227.546	475097.2	502.02	mg/L	3.836	502.02	mg/L	3.836	0.76%

Sequence No.: 37 Autosampler Location: 3
Sample ID: CCV2 Date Collected: 8/29/2002 11:27:53 AM
Analyst:
Sample Wt: Sample Prep Volume:

Dilution: Data Type: Original

Mean Data: CCV2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	529986.0	1.2764	mg/L	0.00607	1.2764	mg/L	0.00607	0.48%
Al 308.215	590455.5	9.8608	mg/L	0.20511	9.8608	mg/L	0.20511	2.08%
As 188.979	1744.4	0.5051	mg/L	0.01192	0.5051	mg/L	0.01192	2.36%
Ba 233.527	1515555.5	10.514	mg/L	0.0829	10.514	mg/L	0.0829	0.79%
Be 313.107	2800780.3	0.2528	mg/L	0.00037	0.2528	mg/L	0.00037	0.15%
Co 228.616	*192968.7*	*2.6563*	*mg/L*	*0.00317*	*2.6563*	*mg/L*	*0.00317*	*0.12%*
Cr 267.716	498970.3	1.0108	mg/L	0.00488	1.0108	mg/L	0.00488	0.48%
Cu 324.752	780405.2	1.2977	mg/L	0.00573	1.2977	mg/L	0.00573	0.44%
Fe 273.955	355703.1	5.2078	mg/L	0.03678	5.2078	mg/L	0.03678	0.71%
Mg 279.077	1619173.0	25.557	mg/L	0.1597	25.557	mg/L	0.1597	0.62%
Mn 257.610	1507829.8	2.6194	mg/L	0.00655	2.6194	mg/L	0.00655	0.25%
Ni 231.604	276459.3	2.5103	mg/L	0.01397	2.5103	mg/L	0.01397	0.56%
Pb 220.353	16756.9	0.4929	mg/L	0.00587	0.4929	mg/L	0.00587	1.19%
Sb 206.836	2825.7	0.5010	mg/L	0.01463	0.5010	mg/L	0.01463	2.92%
Se 196.026	1939.8	0.5111	mg/L	0.00200	0.5111	mg/L	0.00200	0.39%
Tl 190.801	2288.4	0.5056	mg/L	0.01947	0.5056	mg/L	0.01947	3.85%
V 292.402	1202858.7	2.5188	mg/L	0.01078	2.5188	mg/L	0.01078	0.43%
Zn 206.200	486824.3	2.5504	mg/L	0.01238	2.5504	mg/L	0.01238	0.49%
Na 330.237	46866.6	20.874	mg/L	0.0855	20.874	mg/L	0.0855	0.41%
Cd 226.502	140220.7	0.2506	mg/L	0.00128	0.2506	mg/L	0.00128	0.51%
Tl 334.940	916.3	0.0006	mg/L	0.00004	0.0006	mg/L	0.00004	5.92%
Ca 227.546	23896.8	25.138	mg/L	0.4956	25.138	mg/L	0.4956	1.97%

Sequence No.: 38 Autosampler Location: 4
Sample ID: CCB2 Date Collected: 8/29/2002 11:30:27 AM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: CCB2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-1234.7	-0.0030	mg/L	0.00013	-0.0030	mg/L	0.00013	4.29%
Al 308.215	-24731.7	-0.4130	mg/L	0.04505	-0.4130	mg/L	0.04505	10.91%
As 188.979	-1.4	-0.0010	mg/L	0.00013	-0.0010	mg/L	0.00013	13.26%
Ba 233.527	237.5	0.0016	mg/L	0.00024	0.0016	mg/L	0.00024	14.50%
Be 313.107	1220.2	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	22.03%
Co 228.616	44.9	0.0006	mg/L	0.00011	0.0006	mg/L	0.00011	17.15%
Cr 267.716	-44.3	-0.0001	mg/L	0.00016	-0.0001	mg/L	0.00016	182.93%
Cu 324.752	-3587.7	-0.0060	mg/L	0.00041	-0.0060	mg/L	0.00041	6.92%
Fe 273.955	1356.3	0.0199	mg/L	0.00036	0.0199	mg/L	0.00036	1.84%
Mg 279.077	2720.3	0.0429	mg/L	0.00048	0.0429	mg/L	0.00048	1.11%
Mn 257.610	785.6	0.0014	mg/L	0.00016	0.0014	mg/L	0.00016	11.39%
Ni 231.604	30.5	0.0003	mg/L	0.00000	0.0003	mg/L	0.00000	0.48%
Pb 220.353	-108.5	-0.0032	mg/L	0.00006	-0.0032	mg/L	0.00006	1.78%
Sb 206.836	7.7	0.0013	mg/L	0.00053	0.0013	mg/L	0.00053	39.55%
Se 196.026	1.2	0.0003	mg/L	0.00021	0.0003	mg/L	0.00021	65.34%
Tl 190.801	2.5	0.0006	mg/L	0.00030	0.0006	mg/L	0.00030	53.41%
V 292.402	34.0	0.0001	mg/L	0.00033	0.0001	mg/L	0.00033	462.23%
Zn 206.200	-5499.2	-0.0288	mg/L	0.00012	-0.0288	mg/L	0.00012	0.43%
Na 330.237	-20688.4	-9.2344	mg/L	0.02400	-9.2344	mg/L	0.02400	0.26%
Cd 226.502	-76.2	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	18.06%
Tl 334.940	-176.4	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	11.04%
Ca 227.546	68.5	0.0723	mg/L	0.02319	0.0723	mg/L	0.02319	32.09%

H082801A

Method Name: HG_COMM
Method Description: Hgcomm
Element: Hg

ARB. SDG2 2-3,6,8,10,12,14-16

Good for Hg EF 8/29/02

Date: 08/28/2002
Technique:FI-MHS
Calibration Type:
Hg, Zero Intercept: Linear
Wavelength: 253.7 nm
Sample Info Name: EVAN.SIF Results Data Set Name: H082801

OK Hg

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 08/28/2002
Sample ID: S0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0004	0.0023	0.0004	01:03:45	Yes
2			0.0004	0.0016	0.0004	01:04:15	Yes
Mean:			0.0004				
SD :			0.0000				
%RSD:			2.4381				

Auto-zero performed.

Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 08/28/2002
Sample ID: S0.2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0030	0.0153	0.0034	01:05:06	Yes
2			0.0030	0.0159	0.0034	01:05:35	Yes
Mean:			0.0030				
SD :			0.0000				
%RSD:			1.1730				

[Hg] Standard number 1 applied. [0.20]
Correlation Coefficient: 1.00000 Slope: 0.01501

Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 08/28/2002
Sample ID: S1.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0163	0.0799	0.0166	01:06:26	Yes
2			0.0165	0.0817	0.0169	01:06:56	Yes
Mean:			0.0164				
SD :			0.0002				
%RSD:			1.0065				

[Hg] Standard number 2 applied. [1.00]
Correlation Coefficient: 0.99958 Slope: 0.01633

Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 08/28/2002
Sample ID: S2.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0316	0.1518	0.0320	01:07:47	Yes
2			0.0318	0.1518	0.0321	01:08:16	Yes
Mean:			0.0317				
SD :			0.0001				
%RSD:			0.2932				

[Hg] Standard number 3 applied. [2.00]
Correlation Coefficient: 0.99968 Slope: 0.01595

Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 08/28/2002
Sample ID: S5.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0813	0.3904	0.0816	01:09:07	Yes
2			0.0813	0.3917	0.0817	01:09:36	Yes
Mean:			0.0813				
SD :			0.0001				
%RSD:							

[Hg] Standard number 4 applied. [5.00]
Correlation Coefficient: 0.99990 Slope: 0.01621

Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 08/28/2002
Sample ID: S10.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.1595	0.7661	0.1588	01:10:27	Yes
2			0.1600	0.7724	0.1604	01:10:56	Yes
Mean:			0.1592				
SD :			0.0011				
%RSD:			0.6714				

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99992 Slope: 0.01599

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
S0	0.0004	--	----	----	----
S0.2	0.0030	0.20	0.19	0.000	1.2
S1.0	0.0164	1.00	1.02	0.000	1.0
S2.0	0.0317	2.00	1.98	0.000	0.3
S5.0	0.0813	5.00	5.08	0.000	----
S10.0	0.1592	10.00	9.96	0.001	0.7

Correlation Coefficient: 0.99992 Slope: 0.01599 ----

Element: Hg Seq. No.: 7 AS Loc.: 7 Date: 08/28/2002
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.00	5.00	0.0799	0.3797	0.0803	01:11:46	Yes
2	5.02	5.02	0.0803	0.3810	0.0807	01:12:15	Yes
Mean:	5.01	5.01	0.0801				
SD :	0.018	0.018	0.0003				
%RSD:	0.4	0.4	0.3666				

QC value within specified limits.

Element: Hg Seq. No.: 8 AS Loc.: 1 Date: 08/28/2002
Sample ID: ICB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0000	0.0017	0.0004	01:13:07	Yes
2	0.00	0.00	0.0000	0.0013	0.0004	01:13:36	Yes
Mean:	0.00	0.00	0.0000				
SD :	0.001	0.001	0.0000				
%RSD:	118.8	118.8	118.7732				

QC value within specified limits.

000995

Element: Hg Seq. No.: 9 AS Loc.: 9 Date: 08/28/2002
Sample ID: MB-3189 3189

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	-0.0001	0.0020	0.0003	01:14:27	Yes
2	-0.01	-0.01	-0.0002	-0.0002	0.0002	01:14:56	Yes
Mean:	-0.01	-0.01	-0.0001				
SD :	0.007	0.007	0.0001				
%RSD:	82.7	82.7	82.6923				

Element: Hg Seq. No.: 10 AS Loc.: 10 Date: 08/28/2002
Sample ID: LCS-3189 3189 60%

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.66	4.66	0.0745	0.3688	0.0748	01:15:46	Yes
2	4.62	4.62	0.0739	0.3654	0.0743	01:16:16	Yes
Mean:	4.64	4.64	0.0742				
SD :	0.025	0.025	0.0004				
%RSD:	0.5	0.5	0.5310				

Element: Hg Seq. No.: 11 AS Loc.: 11 Date: 08/28/2002
Sample ID: A1243-02D 3189 132mL MW-9I

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0002	-0.0005	0.0002	01:17:06	Yes
2	0.00	0.00	-0.0001	0.0013	0.0003	01:17:35	Yes
Mean:	-0.01	-0.01	-0.0001				
SD :	0.005	0.005	0.0001				
%RSD:	71.4	71.4	71.4419				

Element: Hg Seq. No.: 12 AS Loc.: 12 Date: 08/28/2002
Sample ID: A1243-02DDUP 3189 138mL MW-9IDUP

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0000	0.0017	0.0003	01:18:25	Yes
2	0.00	0.00	0.0000	0.0024	0.0004	01:18:54	Yes
Mean:	0.00	0.00	0.0000				
SD :	0.003	0.003	0.0001				
%RSD:	6771	6771	6770.5543				

Element: Hg Seq. No.: 13 AS Loc.: 13 Date: 08/28/2002
Sample ID: A1243-02DMS 3189 146mL 91% MW-19MS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.97	2.97	0.0475	0.2387	0.0478	01:19:44	Yes
2	2.94	2.94	0.0470	0.2361	0.0474	01:20:14	Yes
Mean:	2.95	2.95	0.0472				
SD :	0.018	0.018	0.0003				
%RSD:	0.6	0.6	0.6191				

Element: Hg Seq. No.: 14 AS Loc.: 14 Date: 08/28/2002
Sample ID: A1243-03D 3189 144mL MW-19D

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0000	0.0011	0.0004	01:21:04	Yes
2	0.00	0.00	0.0000	0.0016	0.0004	01:21:33	Yes
Mean:	0.00	0.00	0.0000				

000996

SD :	0.001	0.001	0.0000				
%RSD:	113.9	113.9	113.9423				

Element: Hg Seq. No.: 15 AS Loc.: 15 Date: 08/28/2002
Sample ID: A1243-06C 3189 142mL MW-15

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01	0.01	0.0001	0.0023	0.0005	01:22:23	Yes
2	0.00	0.00	0.0000	0.0011	0.0004	01:22:53	Yes
Mean:	0.00	0.00	0.0001				
SD :	0.002	0.002	0.0000				
%RSD:	61.4	61.4	61.3795				

Element: Hg Seq. No.: 16 AS Loc.: 16 Date: 08/28/2002
Sample ID: A1243-08C 3189 144mL MW-7

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01	0.01	0.0001	0.0029	0.0005	01:23:43	Yes
2	0.01	0.01	0.0001	0.0024	0.0005	01:24:12	Yes
Mean:	0.01	0.01	0.0001				
SD :	0.000	0.000	0.0000				
%RSD:	7.2	7.2	7.1678				

Element: Hg Seq. No.: 17 AS Loc.: 7 Date: 08/28/2002
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.01	5.01	0.0802	0.3805	0.0805	01:25:03	Yes
2	5.02	5.02	0.0803	0.3801	0.0807	01:25:33	Yes
Mean:	5.02	5.02	0.0802				
SD :	0.005	0.005	0.0001				
%RSD:							

QC value within specified limits.

Element: Hg Seq. No.: 18 AS Loc.: 1 Date: 08/28/2002
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0001	-0.0004	0.0003	01:26:24	Yes
2	-0.01	-0.01	-0.0001	0.0008	0.0003	01:26:53	Yes
Mean:	-0.01	-0.01	-0.0001				
SD :	0.001	0.001	0.0000				
%RSD:	19.6	19.6	19.6121				

QC value within specified limits.

Element: Hg Seq. No.: 19 AS Loc.: 17 Date: 08/28/2002
Sample ID: A1243-10C 3189 136mL MW-30

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	-0.0001	0.0017	0.0003	01:27:44	Yes
2	-0.01	-0.01	-0.0002	-0.0002	0.0002	01:28:13	Yes
Mean:	-0.01	-0.01	-0.0001				
SD :	0.006	0.006	0.0001				
%RSD:	64.7	64.7	64.6673				

Element: Hg Seq. No.: 20 AS Loc.: 18 Date: 08/28/2002

000997

Sample ID: A1243-12B 3189 134mL MW-39

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0001	0.0016	0.0003	01:29:03	Yes
2	-0.01	-0.01	-0.0001	0.0016	0.0002	01:29:32	Yes
Mean:	-0.01	-0.01	-0.0001				
SD :	0.001	0.001	0.0000				
%RSD:	7.7	7.7	7.7149				

Element: Hg Seq. No.: 21 AS Loc.: 19 Date: 08/28/2002
Sample ID: A1243-14A 3189 134mL MW-9

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0002	0.0006	0.0001	01:30:21	Yes
2	-0.01	-0.01	-0.0001	0.0009	0.0002	01:30:50	Yes
Mean:	-0.01	-0.01	-0.0002				
SD :	0.004	0.004	0.0001				
%RSD:	32.4	32.4	32.4177				

Element: Hg Seq. No.: 22 AS Loc.: 20 Date: 08/28/2002
Sample ID: A1243-15C 3189 136mL MW-13

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02	0.02	0.0004	0.0028	0.0008	01:31:40	Yes
2	0.03	0.03	0.0004	0.0032	0.0008	01:32:10	Yes
Mean:	0.03	0.03	0.0004				
SD :	0.002	0.002	0.0000				
%RSD:	6.5	6.5	8.4880				

Element: Hg Seq. No.: 23 AS Loc.: 21 Date: 08/28/2002
Sample ID: A1243-16C 3189 140mL MW-26

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.03	0.03	0.0004	0.0043	0.0008	01:33:00	Yes
2	0.03	0.03	0.0005	0.0057	0.0009	01:33:29	Yes
Mean:	0.03	0.03	0.0005				
SD :	0.005	0.005	0.0001				
%RSD:	18.4	18.4	18.4225				

Element: Hg Seq. No.: 24 AS Loc.: 22 Date: 08/28/2002
Sample ID: ~~BLANK A1243-16CPDS~~ 36%

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.29	1.29	0.0206	0.1062	0.0210	01:34:20	Yes
2	1.29	1.29	0.0207	0.1048	0.0211	01:34:49	Yes
Mean:	1.29	1.29	0.0207				
SD :	0.003	0.003	0.0000				
%RSD:	0.2	0.2	0.2298				

Element: Hg Seq. No.: 25 AS Loc.: 23 Date: 08/28/2002
Sample ID: LBK

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.14	0.14	0.0022	0.0070	0.0026	01:35:39	Yes
2	-0.01	-0.01	-0.0002	0.0000	0.0002	01:36:08	Yes
Mean:	0.06	0.06	0.0010				

000998

Perkin-Elmer AAWinLab: 08/28/2002, 01:36:09 PM

SD :	0.106	0.106	0.0017
%RSD:	170.8	170.8	170.7503

Element: Hg Seq. No.: 26 AS Loc.: 7 Date: 08/28/2002
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.15	5.15	0.0823	0.3880	0.0827	01:37:00	Yes
2	5.15	5.15	0.0824	0.3863	0.0827	01:37:29	Yes
Mean:	5.15	5.15	0.0823				
SD :	0.003	0.003	0.0000				
%RSD:							

QC value within specified limits.

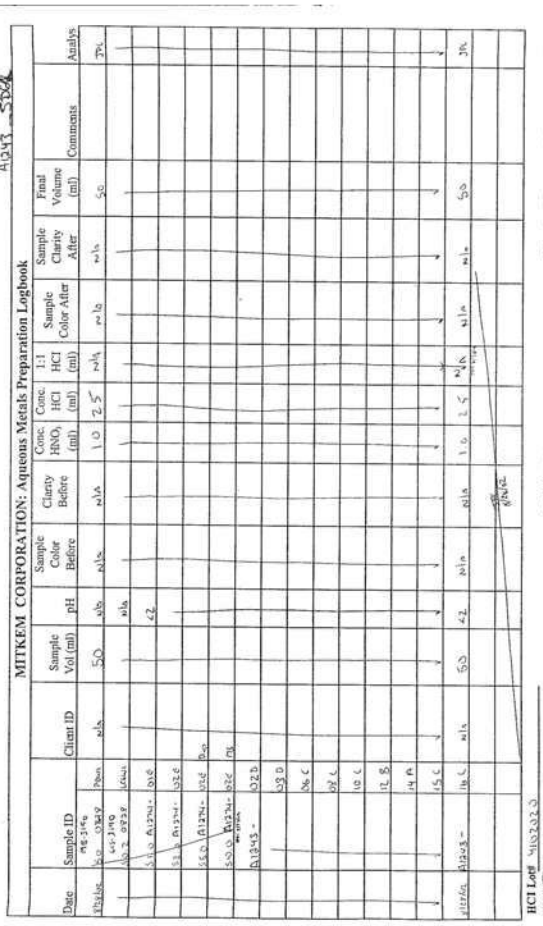
Element: Hg Seq. No.: 27 AS Loc.: 1 Date: 08/28/2002
Sample ID: CCB

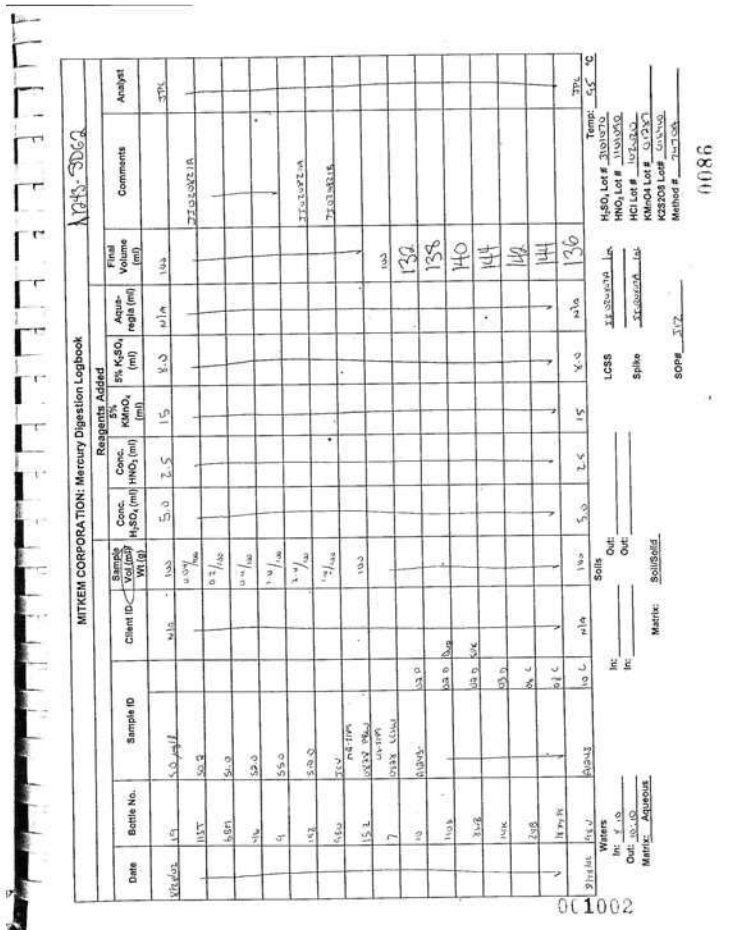
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0000	0.0009	0.0003	01:38:22	Yes
2	-0.01	-0.01	-0.0001	-0.0004	0.0002	01:38:52	Yes
Mean:	-0.01	-0.01	-0.0001				
SD :	0.004	0.004	0.0001				
%RSD:	72.8	72.8	72.8365				

QC value within specified limits.

Prep Logbooks

1. ICP
2. Mercury





MITKEM CORPORATION: Mercury Digestion Logbook

Date	Bottle No.	Sample ID		Client ID	Sample Vol (ml)/ Wt (g)	Conc. H_2SO_4 (ml)	Conc. HNO_3 (ml)	5% $KMnO_4$ (ml)	5% K_2SO_4 (ml)	Aqua-regia (ml)	Final Volume (ml)	Comments	Analyst
						Reagents Added							
[illegible]	[illegible]	A1243-	12 G	n/a	100	5.0	2.5	15	8.0	n/a	134		JPC
↓	[illegible]	↓	14 D	↓	↓	↓	↓	↓	↓	↓	134		↓
↓	[illegible]	↓	15 C	↓	↓	↓	↓	↓	↓	↓	136		↓
[illegible]	[illegible]	A1243-	16 C	n/a	100	5.0	2.5	15	8.0	n/a	140		JPC

Waters
In: [illegible]
Out: [illegible]
Matrix: Aqueous

Soils
In: ______ Out: ______
In: ______ Out: ______
Matrix: Soil/Solid

LCSS [illegible]
Spike [illegible]
SOP# [illegible]

Temp: 55 °C
H_2SO_4 Lot # [illegible]
HNO_3 Lot # [illegible]
HCl Lot # [illegible]
KMnO4 Lot # [illegible]
K2S208 Lot# [illegible]
Method # [illegible]

Logbook ID: [illegible]
Reviewed by:

MITKEM CORPORATION

* Total Petroleum Hydrocarbons *

"A" SDG

001004

MITKEM CORPORATION

Analysis Report: Extractable Total Petroleum Hydrocarbons

Client: HRP Associates
Analysis: CT-ETPH, 3/99
Matrix: Aqueous

Concentration in: mg/L

Lab ID	Client ID	Result	Reporting Limit	p-Terphenyl Surrogate % Recovery	Analysis Date
A1243-01C	MW-6	0.36	0.10	32	9/7/02
A1243-02E	MW-19M	0.55	0.10	72	9/7/02
A1243-03E	MW-19D	0.24	0.10	60	9/7/02
A1243-04E	MW-34	0.28	0.10	33	9/7/02
A1243-06D	MW-15	0.10	0.10	49	9/7/02
A1243-07D	MW-8	0.15	0.10	60	9/7/02
A1243-08D	MW-7	1.9	0.10	23	9/7/02
A1243-10D	MW-30	0.18	0.10	60	9/7/02
A1243-11D	MW-35	0.36	0.10	65	9/7/02
A1243-14B	MW-9	2.5	0.10	34	9/7/02
A1243-15D	MW-13	0.60	0.10	78	9/7/02
A1243-16D	MW-26	0.53	0.10	81	9/7/02

QA/QC

Method Blank					
F0821-BW1		ND	0.1	49	9/6/02
Lab Control Sample (% Recovery)					
F0821-LW1		90		74	9/6/02
F0821-LW1DUP		89		73	9/7/02

ND = Not Detected

001005

TPH-AQ

A1243 ETPH AQUEOUS

Sample	Total Area	Inter.area	Surr.area	Mean RRF	Int C.(ug/ml)	Sam (L)	FV (ml)	Dilu.	TPH (mg/L)	REP. L (mg/L)	Surr.(%)	
F0821-BW1	46,460,765	22,854,040	12,291,306	0.9159	40.00	1	1.0	1	0.02	0.07	49	NP
A1243-01C	211,980,351	22,326,935	7,677,100	0.9159	40.00	1	1.0	1	0.36	0.07	32	
A1243-02E	312,779,422	21,874,631	17,098,267	0.9159	40.00	1	1.0	1	0.55	0.07	72	
A1243-03E	161,479,505	22,612,945	14,809,394	0.9159	40.00	1	1.0	1	0.24	0.07	60	
A1243-04E	166,768,159	21,547,528	7,716,971	0.9159	40.00	1	1.0	1	0.28	0.07	33	
A1243-06D	84,199,376	22,398,851	12,053,226	0.9159	40.00	1	1.0	1	0.10	0.07	49	
A1243-07D	114,710,425	22,396,556	14,766,393	0.9159	40.00	1	1.0	1	0.15	0.07	60	
A1243-08D	925,911,417	20,435,621	5,115,201	0.9159	40.00	1	1.0	1	1.92	0.07	23	
A1243-10D	154,004,773	26,889,770	17,700,810	0.9159	40.00	1	1.0	1	0.18	0.07	60	
A1243-11D	218,582,873	21,930,777	15,527,041	0.9159	40.00	1	1.0	1	0.36	0.07	65	
A1243-14B	1,376,863,580	23,895,342	8,913,911	0.9159	40.00	1	1.0	1	2.46	0.07	34	
A1243-15D	338,472,830	21,696,810	18,466,990	0.9159	40.00	1	1.0	1	0.60	0.07	78	
A1243-16D	297,793,806	21,361,754	18,868,672	0.9159	40.00	1	1.0	1	0.53	0.07	81	

TPH (mg/L) = (Total Area - Inter. Area - Surr. Area)* Int C.(ug/ml)*FV(ml)* Dilu. / (Inter. Area* RRF* Sam.(L)* 1000)

✓ JBL 9/10/02

001006

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5105.D Vial: 11
Acq On : 9-7-02 1:23:34 PM Operator:
Sample : A1243-01C Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:58 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units	
	Internal Standards				
1) I	5a-Androstane	15.42	22326935	40.000 ng	
	System Monitoring Compounds				
2) S	para-Terphenyl	15.97	7577100	15.768 ng	
Spiked Amount	50.000	Recovery	=	31.54%	
	Target Compounds				
3)	Nonane C9	0.00	0	N.D. ng	
4)	DECANE C10	0.00	0	N.D. ng	d
5)	DODECANE C12	0.00	0	N.D. ng	d
6)	TETRADECANE C14	0.00	0	N.D. ng	d
7)	HEXADECANE C 16	0.00	0	N.D. ng	d
8)	OCTADECANE C18	0.00	0	N.D. ng	d
9)	NONADECANE C19	0.00	0	N.D. ng	d
10)	EICOSANE C20	0.00	0	N.D. ng	d
11)	DOCOSANE C22	0.00	0	N.D. ng	d
12)	TETRACOSANE C24	0.00	0	N.D. ng	d
13)	HEXACOSANE C26	0.00	0	N.D. ng	d
14)	OCTACOSANE C28	0.00	0	N.D. ng	d
15)	TRIACONTANE C30	0.00	0	N.D. ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D. ng	d

BMF 9/9/02

001008

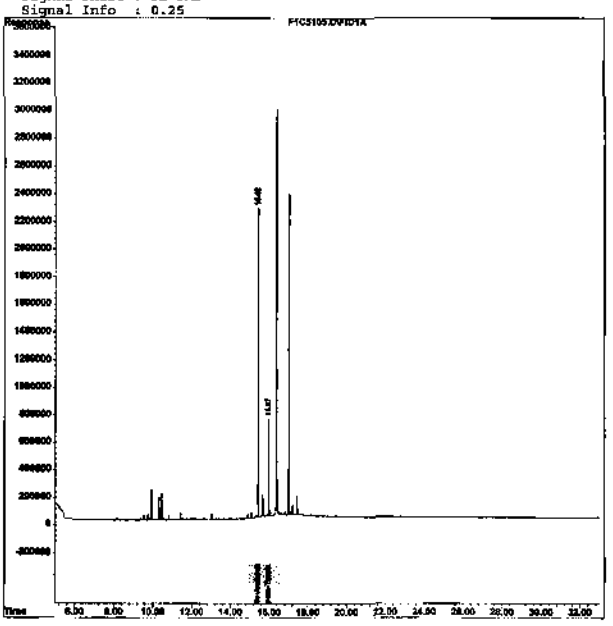
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5105.D ET0909F.M Mon Sep 09 14:58:22 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5105.D Vial: 11
Acq On : 9-7-02 1:23:34 PM Operator:
Sample : A1243-01C Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:58 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5105.D ET0909F.M Mon Sep 09 14:58:26 2002 HPDOS9 Page 2

001009

Area Percent Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5105.D Vial: 11
Acq On : 9-7-02 1:23:34 PM Operator:
Sample : A1243-01C Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C5105.D\FID1A

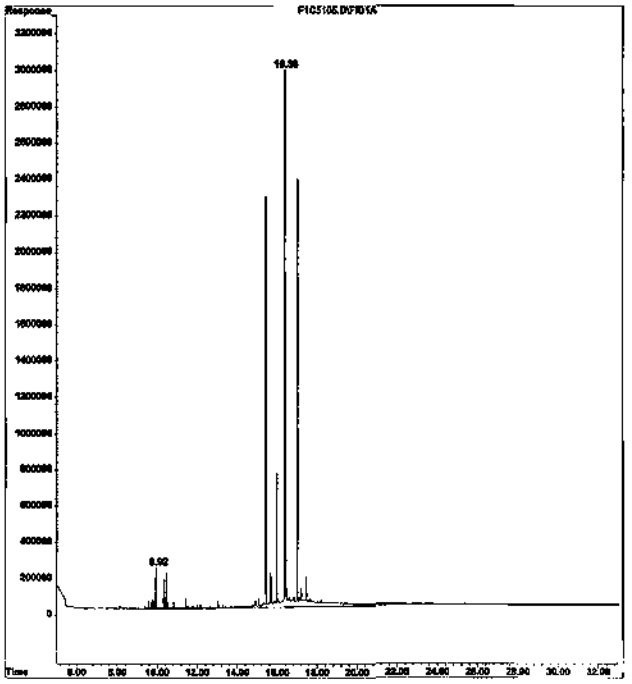
peak #	R.T. min	Start min	End min	PK	peak TY	height	peak area	% max.	% of total
1	9.925	9.268	12.913	M	225549	16383063	8.38%	7.729%	
2	16.362	12.915	23.220	M	2956092	195597288	100.00%	92.271%	

Sum of corrected areas: 211980351

F1C5105.D ET0909F.M Mon Sep 09 14:59:03 2002 HPDOS9

001009

File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5105.D
Operator :
Acquired : 9-7-02 1:23:34 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1243-01C
Misc Info :
Vial Number: 11



001010

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5107.D Vial: 12
Acq On : 9-7-02 2:05:41 PM Operator:
Sample : A1243-02E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:59 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units	
	Internal Standards				
1) I	5a-Androstane	15.42	21874631	40.000 ng	
	System Monitoring Compounds				
2) S	para-Terphenyl	15.97	17098267	35.845 ng	
Spiked Amount	50.000	Recovery	=	71.69%	
	Target Compounds				
3)	Nonane C9	0.00	0	N.D. ng	
4)	DECANE C10	0.00	0	N.D. ng	d
5)	DODECANE C12	0.00	0	N.D. ng	d
6)	TETRADECANE C14	0.00	0	N.D. ng	d
7)	HEXADECANE C 16	0.00	0	N.D. ng	d
8)	OCTADECANE C18	0.00	0	N.D. ng	d
9)	NONADECANE C19	0.00	0	N.D. ng	d
10)	EICOSANE C20	0.00	0	N.D. ng	d
11)	DOCOSANE C22	0.00	0	N.D. ng	d
12)	TETRACOSANE C24	0.00	0	N.D. ng	d
13)	HEXACOSANE C26	0.00	0	N.D. ng	d
14)	OCTACOSANE C28	0.00	0	N.D. ng	d
15)	TRIACONTANE C30	0.00	0	N.D. ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D. ng	d

BMF 9/9/02

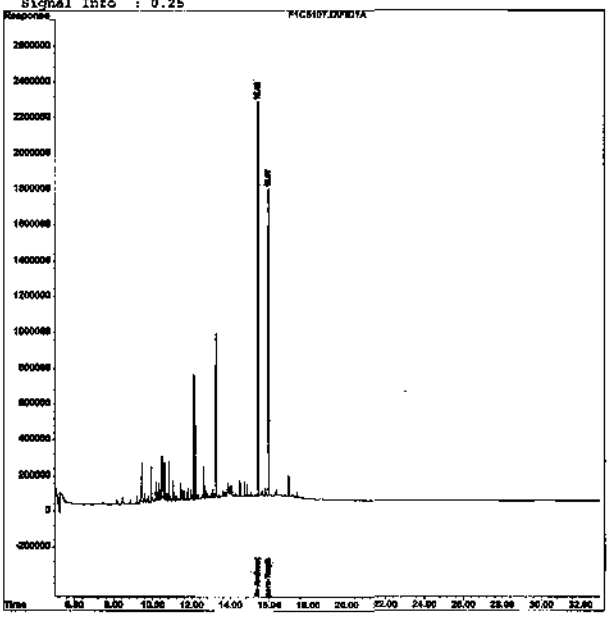
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5107.D ET0909F.M Mon Sep 09 14:59:58 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5107.D Vial: 12
Acq On : 9-7-02 2:05:41 PM Operator:
Sample : A1243-02E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:59 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5107.D ET0909F.M Mon Sep 09 15:00:02 2002 HPDOS9 001012 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5107.D Vial: 12
Acq On : 9-7-02 2:05:41 PM Operator:
Sample : A1243-02E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C5107.D\FID1A

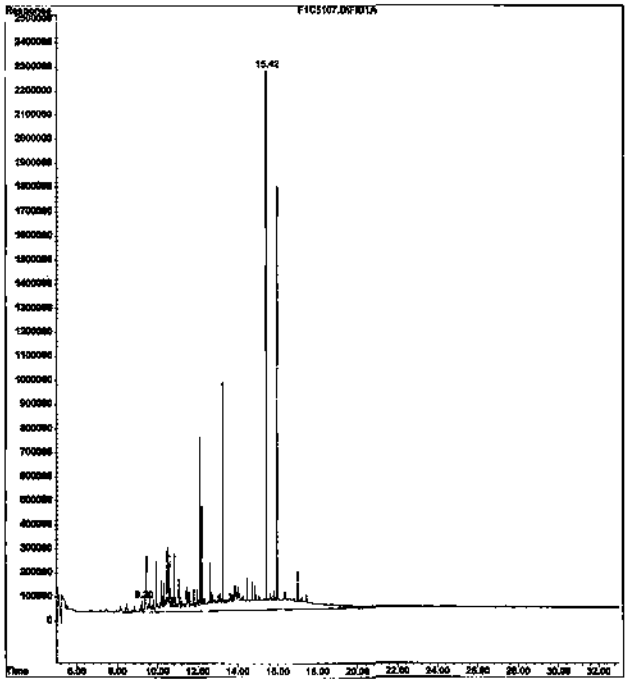
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	9.198	8.284	9.273	M	49243	5366675	1.75%	1.716%
2	15.416	9.299	21.647	M	2245768	307412748	100.00%	98.284%

Sum of corrected areas: 312779422

F1C5107.D ET0909F.M Mon Sep 09 15:00:35 2002 HPDOS9

001013

File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5107.D
Operator :
Acquired : 9-7-02 2:05:41 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1243-02E
Misc Info :
Vial Number: 12



001014

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5109.D Vial: 13
Acq On : 9-7-02 2:47:50 PM Operator:
Sample : A1243-03E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 15:01 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units	
	Internal Standards				
1) I	5a-Androstane	15.42	22612945	40.000 ng	
	System Monitoring Compounds				
2) S	para-Terphenyl	15.97	14309894	30.033 ng	
Spiked Amount	50.000		Recovery =	60.07%	
	Target Compounds				
3)	Nonane C9	0.00	0	N.D. ng	d
4)	DECANE C10	0.00	0	N.D. ng	d
5)	DODECANE C12	0.00	0	N.D. ng	d
6)	TETRADECANE C14	0.00	0	N.D. ng	d
7)	HEXADECANE C 16	0.00	0	N.D. ng	d
8)	OCTADECANE C18	0.00	0	N.D. ng	d
9)	NONADECANE C19	0.00	0	N.D. ng	d
10)	EICOSANE C20	0.00	0	N.D. ng	d
11)	DOCOSANE C22	0.00	0	N.D. ng	d
12)	TETRACOSANE C24	0.00	0	N.D. ng	d
13)	HEXACOSANE C26	0.00	0	N.D. ng	d
14)	OCTACOSANE C28	0.00	0	N.D. ng	d
15)	TRIACONTANE C30	0.00	0	N.D. ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D. ng	d

BNF 9/4/02

001015

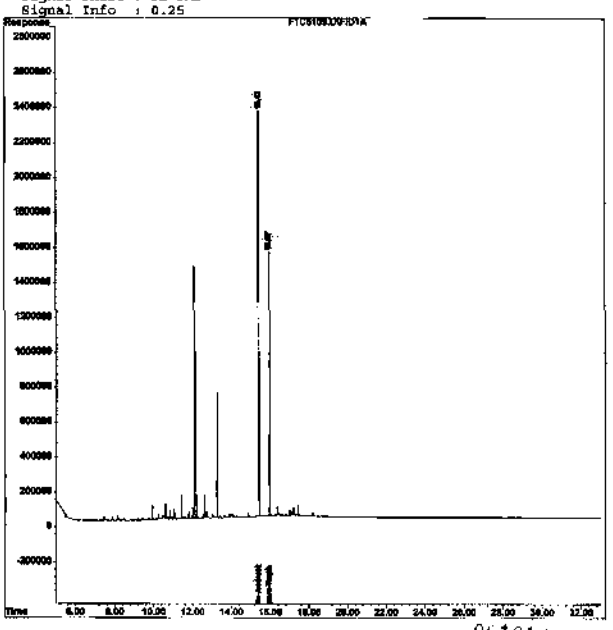
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5109.D ET0909F.M Mon Sep 09 15:01:36 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5109.D Vial: 13
Acq On : 9-7-02 2:47:50 PM Operator:
Sample : A1243-03E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 15:01 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5109.D ET0909F.M Mon Sep 09 15:01:41 2002 HPDOS9 001016 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5109.D Vial: 13
Acq On : 9-7-02 2:47:50 PM Operator:
Sample : A1243-03E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C5109.D\FID1A

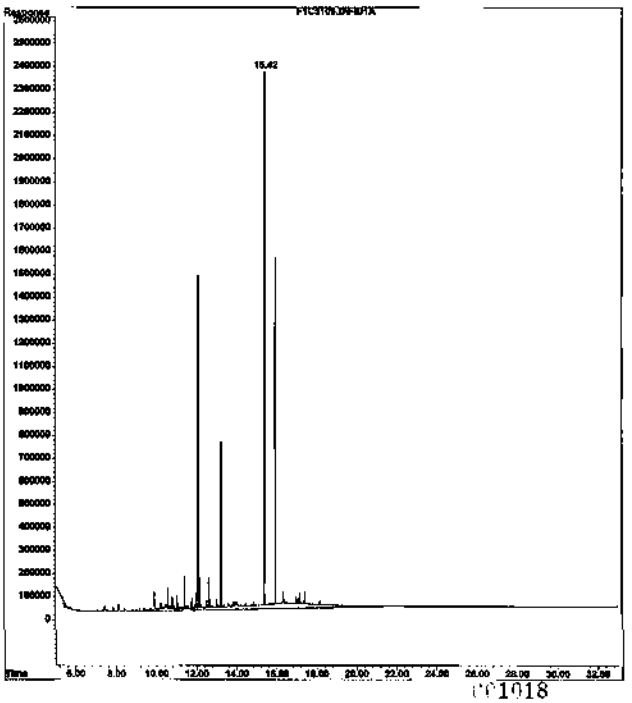
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.417	8.944	21.328	M	23348836	1614795505	100.00%	100.000%

Sum of corrected areas: 1614795505

F1C5109.D ET0909F.M Mon Sep 09 15:01:55 2002 HPDOS9

001017

File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5109.D
Operator :
Acquired : 9-7-02 2:47:50 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1243-03E
Misc Info :
Vial Number: 13



001018

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5111.D Vial: 14
Acq On : 9-7-02 3:29:42 PM Operator:
Sample : A1243-04E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 15:02 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.42	21547628	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.96	7716971	16.423 ng
Spiked Amount	50.000	Recovery	=	32.85%
	Target Compounds			
3)	Nonane C9	0.00	0	N.D. ng d
4)	DECANE C10	0.00	0	N.D. ng d
5)	DODECANE C12	0.00	0	N.D. ng d
6)	TETRADECANE C14	0.00	0	N.D. ng d
7)	HEXADECANE C 16	0.00	0	N.D. ng d
8)	OCTADECANE C18	0.00	0	N.D. ng d
9)	NONADECANE C19	0.00	0	N.D. ng d
10)	EICOSANE C20	0.00	0	N.D. ng d
11)	DOCOSANE C22	0.00	0	N.D. ng d
12)	TETRACOSANE C24	0.00	0	N.D. ng d
13)	HEXACOSANE C26	0.00	0	N.D. ng d
14)	OCTACOSANE C28	0.00	0	N.D. ng d
15)	TRIACONTANE C30	0.00	0	N.D. ng d
16)	HEXATRIACONTANE C36	0.00	0	N.D. ng d

BMF 9/9/02

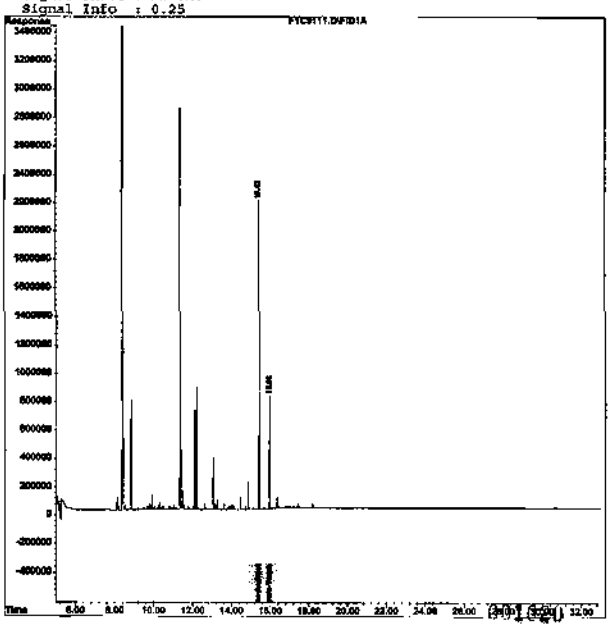
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5111.D ET0909F.M Mon Sep 09 15:02:52 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5111.D Vial: 14
Acq On : 9-7-02 3:29:42 PM Operator:
Sample : A1243-04E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 15:02 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5111.D ET0909F.M Mon Sep 09 15:02:56 2002 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5111.D Vial: 14
Acq On : 9-7-02 3:29:42 PM Operator:
Sample : A1243-04E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C5111.D\FID1A

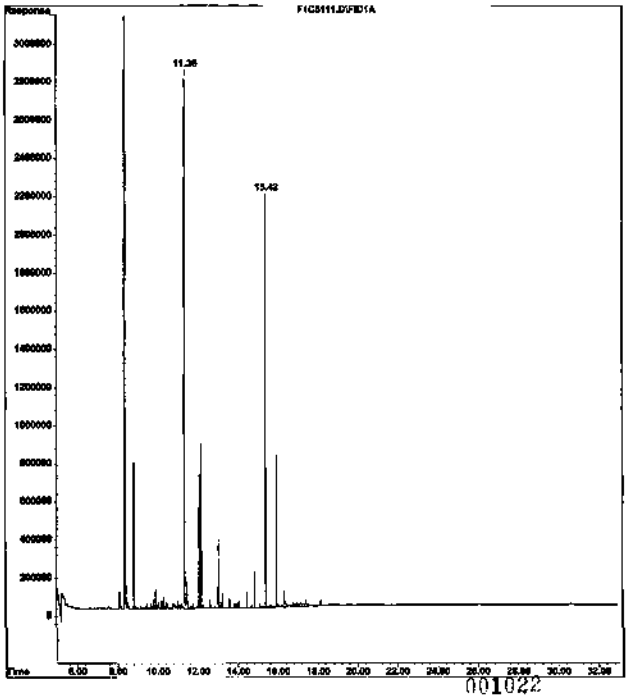
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	11.361	8.716	15.015	M	2830142	118672775	100.00%	71.160%
2	15.416	15.051	19.077	M	2176163	48095384	40.53%	28.840%

Sum of corrected areas: 166768159

F1C5111.D ET0909F.M Mon Sep 09 15:43:03 2002 HPDOS9

001021

File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5111.D
Operator :
Acquired : 9-7-02 3:29:42 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1243-04E
Misc Info :
Vial Number: 14



001022

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5113.D Vial: 15
Acq On : 9-7-02 4:11:25 PM Operator:
Sample : A1243-06D Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 15:04 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	15.42	22198851	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.96	12053226	24.677	ng	
Spiked Amount	50.000		Recovery =	49.35%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF 9/9/02

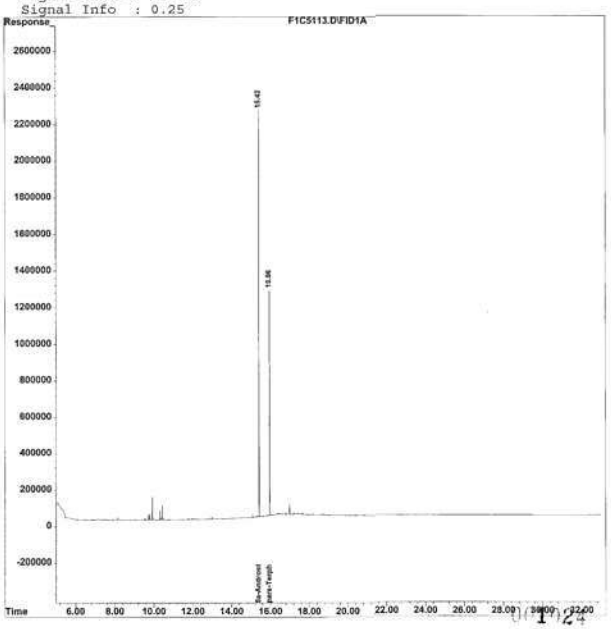
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5113.D ET0909F.M Mon Sep 09 15:04:48 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5113.D Vial: 15
Acq On : 9-7-02 4:11:25 PM Operator:
Sample : A1243-06D Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 15:04 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5113.D ET0909F.M Mon Sep 09 15:04:52 2002 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5113.D Vial: 15
Acq On : 9-7-02 4:11:25 PM Operator:
Sample : A1243-06D Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

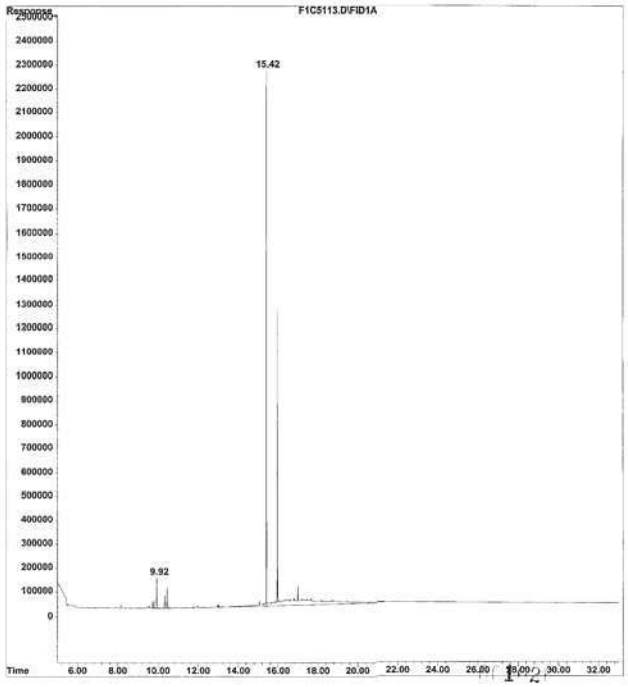
Signal : F1C5113.D\FID1A

peak #	R.T. min	Start min	End min	PK	peak TY	height	peak area	% max.	% of total
1	9.923	9.653	10.631		M	124368	4354137	5.45%	5.171%
2	15.416	12.369	21.330		M	2235029	79845240	100.00%	94.829%

Sum of corrected areas: 84199376

F1C5113.D ET0909F.M Mon Sep 09 15:05:21 2002 HPDOS9

File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5113.D
Operator :
Acquired : 9-7-02 4:11:25 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1243-06D
Misc Info :
Vial Number: 15



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5115.D Vial: 16
Acq On : 9-7-02 4:53:34 PM Operator:
Sample : A1243-07D Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 15:11 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	15.42	22396556	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.96	14766393	30.235	ng	
Spiked Amount	50.000		Recovery =	60.47%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BNF 9/9/02

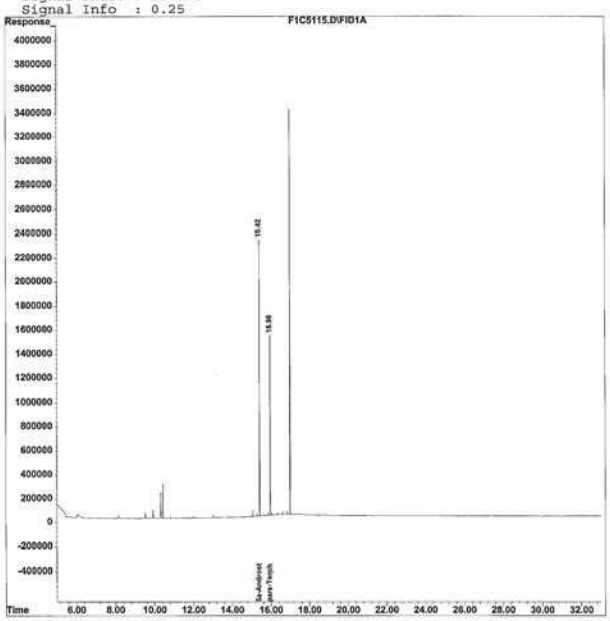
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5115.D ET0909F.M Mon Sep 09 15:12:22 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5115.D Vial: 16
Acq On : 9-7-02 4:53:34 PM Operator:
Sample : A1243-07D Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 15:11 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5115.D ET0909F.M Mon Sep 09 15:12:26 2002 HPDOS9 Page 2

001028

Area Percent Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5115.D Vial: 16
Acq On : 9-7-02 4:53:34 PM Operator:
Sample : A1243-07D Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C5115.D\FID1A

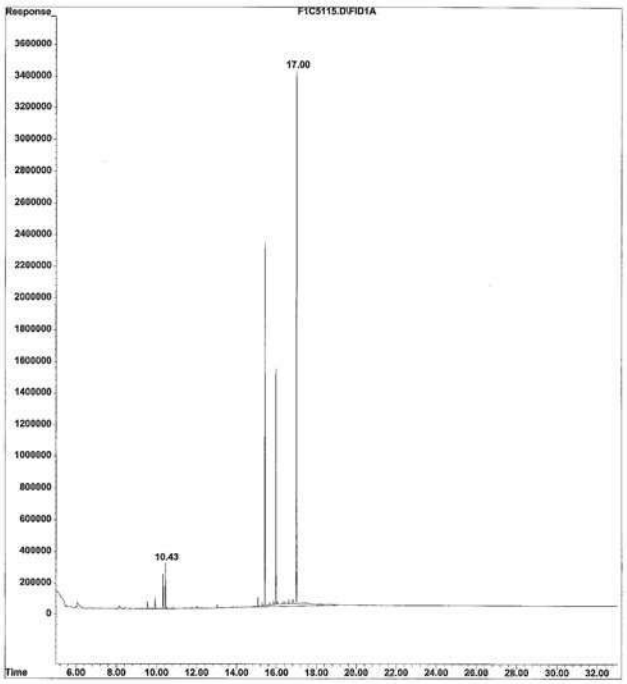
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	10.433	9.453	10.965	M	293297	8740304	8.25%	7.619%
2	16.997	14.637	19.308	M	3381895	105970120	100.00%	92.381%

Sum of corrected areas: 114710425

F1C5115.D ET0909F.M Mon Sep 09 15:14:51 2002 HPDOS9

1 23

File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5115.D
Operator :
Acquired : 9-7-02 4:53:34 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1243-07D
Misc Info :
Vial Number: 16



001030

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5117.D Vial: 17
Acq On : 9-7-02 5:35:07 PM Operator:
Sample : A1243-08D Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 15:15 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units	
	Internal Standards				
1) I	5a-Androstane	15.42	20435521	40.000 ng	
	System Monitoring Compounds				
2) S	para-Terphenyl	15.97	5115201	11.479 ng	
Spiked Amount	50.000	Recovery	=	22.96%	
	Target Compounds				
3)	Nonane C9	0.00	0	N.D. ng	
4)	DECANE C10	0.00	0	N.D. ng	d
5)	DODECANE C12	0.00	0	N.D. ng	d
6)	TETRADECANE C14	0.00	0	N.D. ng	d
7)	HEXADECANE C 16	0.00	0	N.D. ng	d
8)	OCTADECANE C18	0.00	0	N.D. ng	d
9)	NONADECANE C19	0.00	0	N.D. ng	d
10)	EICOSANE C20	0.00	0	N.D. ng	d
11)	DOCOSANE C22	0.00	0	N.D. ng	d
12)	TETRACOSANE C24	0.00	0	N.D. ng	d
13)	HEXACOSANE C26	0.00	0	N.D. ng	d
14)	OCTACOSANE C28	0.00	0	N.D. ng	d
15)	TRIACONTANE C30	0.00	0	N.D. ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D. ng	d

BNF 9/9/02

001031

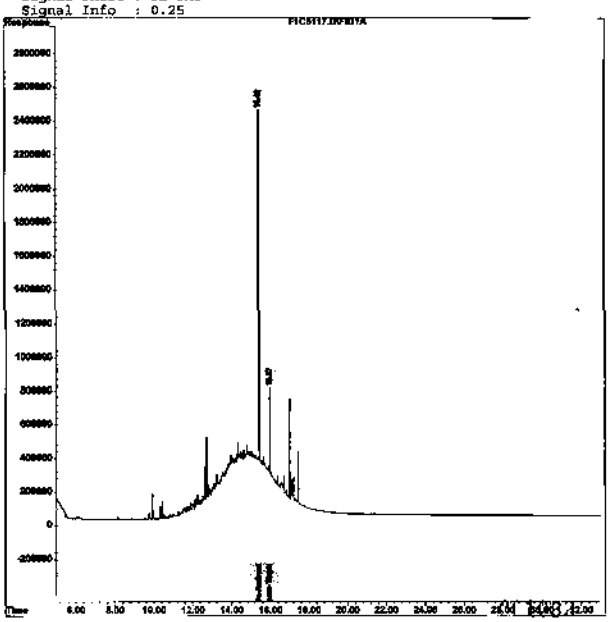
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5117.D ET0909F.M Mon Sep 09 15:15:50 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5117.D Vial: 17
Acq On : 9-7-02 5:35:07 PM Operator:
Sample : A1243-08D Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 15:15 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5117.D ET0909F.M Mon Sep 09 15:15:54 2002 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5117.D Vial: 17
Acq On : 9-7-02 5:35:07 PM Operator:
Sample : A1243-08D Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C5117.D\FID1A

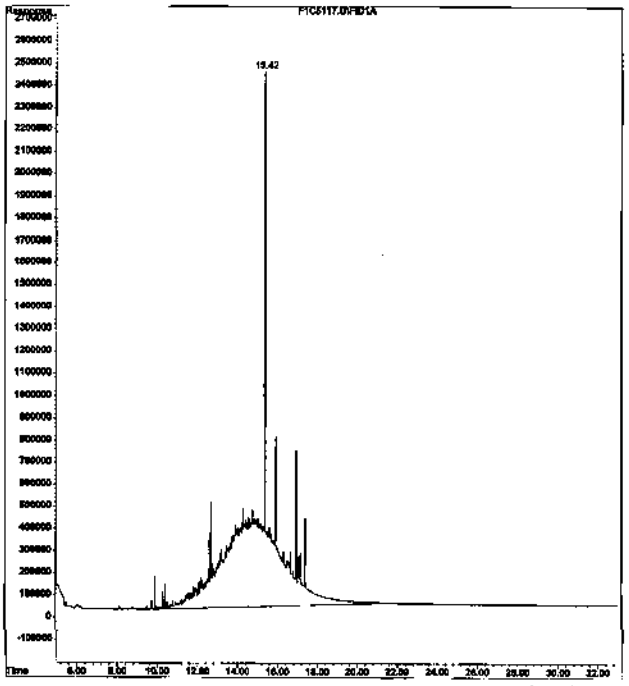
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.416	9.186	21.560	M	2415389	925911417	100.00%	100.000%

Sum of corrected areas: 925911417

F1C5117.D ET0909F.M Mon Sep 09 15:16:09 2002 HPDOS9

001033

File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5117.D
Operator :
Acquired : 9-7-02 5:35:07 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1243-08D
Misc Info :
Vial Number: 17



001034

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5125.D Vial: 18
Acq On : 9-7-02 8:23:23 PM Operator:
Sample : A1243-10D Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 15:16 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units	
	Internal Standards				
1) I	5a-Androstane	15.42	26889770	40.000 ng	
	System Monitoring Compounds				
2) S	para-Terphenyl	15.97	17700810	30.187 ng	
Spiked Amount	50.000	Recovery	=	60.37%	
	Target Compounds				
3)	Nonane C9	0.00	0	N.D. ng	
4)	DECANE C10	0.00	0	N.D. ng	
5)	DODECANE C12	0.00	0	N.D. ng	
6)	TETRADECANE C14	0.00	0	N.D. ng	
7)	HEXADECANE C 16	0.00	0	N.D. ng	
8)	OCTADECANE C18	0.00	0	N.D. ng	
9)	NONADECANE C19	0.00	0	N.D. ng	
10)	EICOSANE C20	0.00	0	N.D. ng	d
11)	DOCOSANE C22	0.00	0	N.D. ng	d
12)	TETRACOSANE C24	0.00	0	N.D. ng	d
13)	HEXACOSANE C26	0.00	0	N.D. ng	d
14)	OCTACOSANE C28	0.00	0	N.D. ng	
15)	TRIACONTANE C30	0.00	0	N.D. ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D. ng	

BMF 9/9/02

OC1035

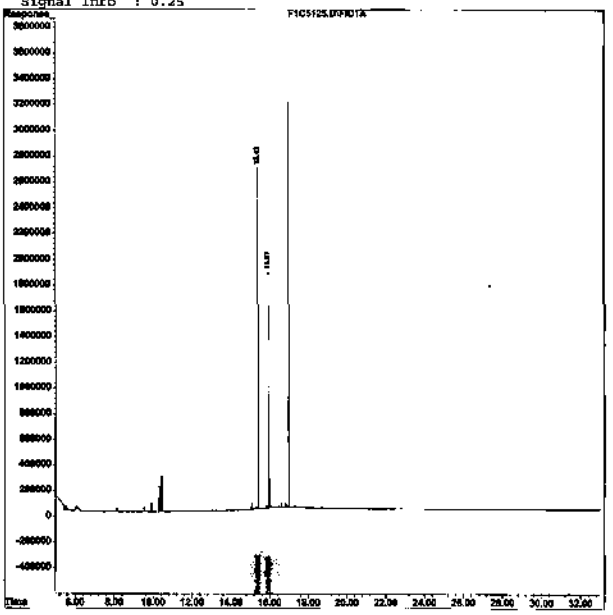
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5125.D ET0909F.M Mon Sep 09 15:17:03 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5125.D Vial: 18
Acq On : 9-7-02 8:23:23 PM Operator:
Sample : A1243-10D Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 15:16 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5125.D ET0909F.M Mon Sep 09 15:17:07 2002 HPDOS9 OC1036 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5125.D Vial: 18
Acq On : 9-7-02 8:23:23 PM Operator:
Sample : A1243-10D Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C5125.D\FID1A

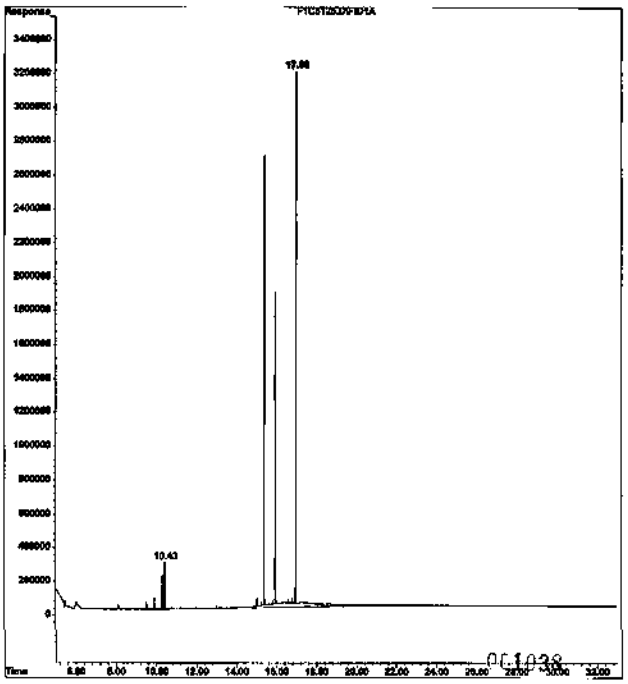
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	10.434	9.466	10.675	M	281583	9566851	6.62%	6.212%
2	16.999	11.778	21.037	M	3170228	144437923	100.00%	93.788%

Sum of corrected areas: 154004773

F1C5125.D ET0909F.M Mon Sep 09 15:17:32 2002 HPDOS9

OC1037

File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5125.D
Operator :
Acquired : 9-7-02 8:23:23 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1243-10D
Misc Info :
Vial Number: 18



OC1038

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5127.D Vial: 19
Acq On : 9-7-02 9:06:01 PM Operator:
Sample : A1243-11D Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 15:18 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.42	21930777	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.97	15627041	32.467 ng
Spiked Amount	50.000	Recovery	=	64.93%
	Target Compounds			
3)	Nonane C9	0.00	0	N.D. ng d
4)	DECANE C10	0.00	0	N.D. ng d
5)	DODECANE C12	0.00	0	N.D. ng d
6)	TETRADECANE C14	0.00	0	N.D. ng d
7)	HEXADECANE C 16	0.00	0	N.D. ng d
8)	OCTADECANE C18	0.00	0	N.D. ng d
9)	NONADECANE C19	0.00	0	N.D. ng d
10)	EICOSANE C20	0.00	0	N.D. ng d
11)	DOCOSANE C22	0.00	0	N.D. ng d
12)	TETRACOSANE C24	0.00	0	N.D. ng d
13)	HEXACOSANE C26	0.00	0	N.D. ng d
14)	OCTACOSANE C28	0.00	0	N.D. ng d
15)	TRIACONTANE C30	0.00	0	N.D. ng d
16)	HEXATRIACONTANE C36	0.00	0	N.D. ng d

BMF 9/9/02

001039

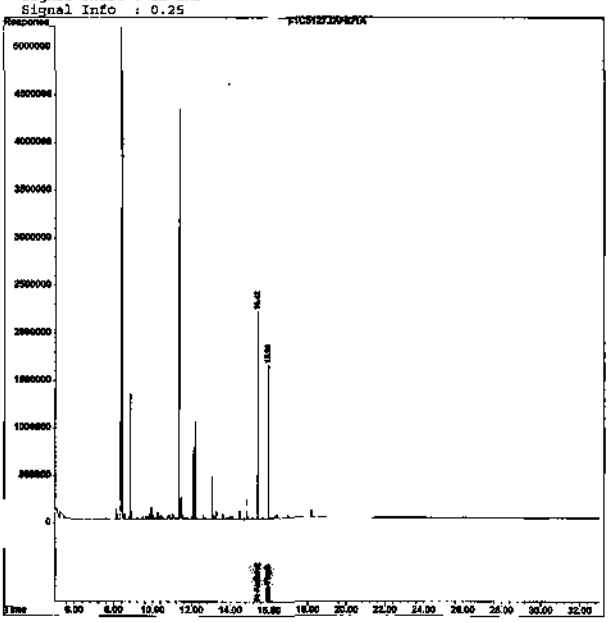
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5127.D ET0909F.M Mon Sep 09 15:18:29 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5127.D Vial: 19
Acq On : 9-7-02 9:06:01 PM Operator:
Sample : A1243-11D Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 15:18 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5127.D ET0909F.M Mon Sep 09 15:18:33 2002 HPDOS9 001040 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5127.D Vial: 19
Acq On : 9-7-02 9:06:01 PM Operator:
Sample : A1243-11D Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C5127.D\FID1A

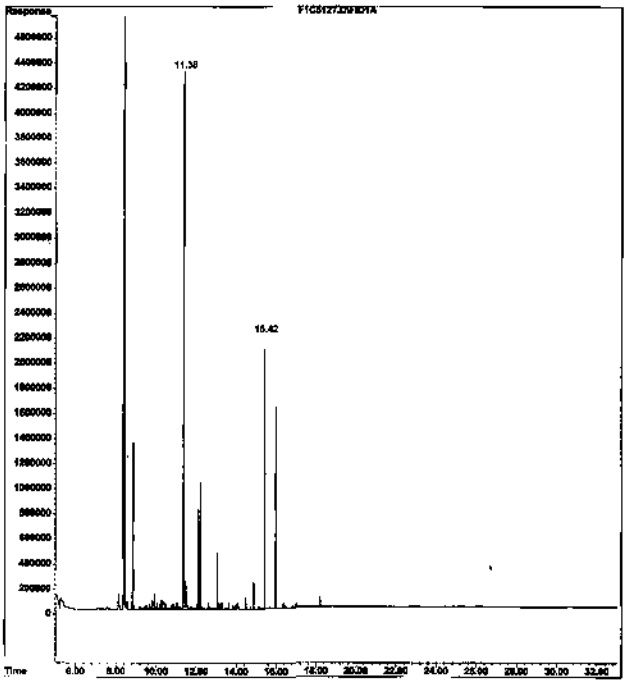
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	11.364	8.720	15.046	M	43308237	166941278	100.00%	76.374%
2	15.416	15.173	18.947	M	2186937	51641594	30.93%	23.626%

Sum of corrected areas: 218582873

F1C5127.D ET0909F.M Mon Sep 09 15:19:33 2002 HPDOS9

001041

File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5127.D
Operator :
Acquired : 9-7-02 9:06:01 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1243-11D
Misc Info :
Vial Number: 19



001042

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5129.D Vial: 20
Acq On : 9-7-02 9:48:21 PM Operator:
Sample : A1243-14B Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 15:20 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units	
	Internal Standards				
1) I	5a-Androstane	15.42	23895842	40.000 ng	
	System Monitoring Compounds				
2) S	para-Terphenyl	15.97	8913911	17.107 ng	
Spiked Amount	50.000	Recovery	=	34.21%	
	Target Compounds				
3)	Nonane C9	0.00	0	N.D. ng	
4)	DECANE C10	0.00	0	N.D. ng	d
5)	DODECANE C12	0.00	0	N.D. ng	d
6)	TETRADECANE C14	0.00	0	N.D. ng	d
7)	HEXADECANE C 16	0.00	0	N.D. ng	d
8)	OCTADECANE C18	0.00	0	N.D. ng	d
9)	NONADECANE C19	0.00	0	N.D. ng	d
10)	EICOSANE C20	0.00	0	N.D. ng	d
11)	DOCOSANE C22	0.00	0	N.D. ng	d
12)	TETRACOSANE C24	0.00	0	N.D. ng	d
13)	HEXACOSANE C26	0.00	0	N.D. ng	d
14)	OCTACOSANE C28	0.00	0	N.D. ng	d
15)	TRIACONTANE C30	0.00	0	N.D. ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D. ng	d

BNF 9/9/02

001043

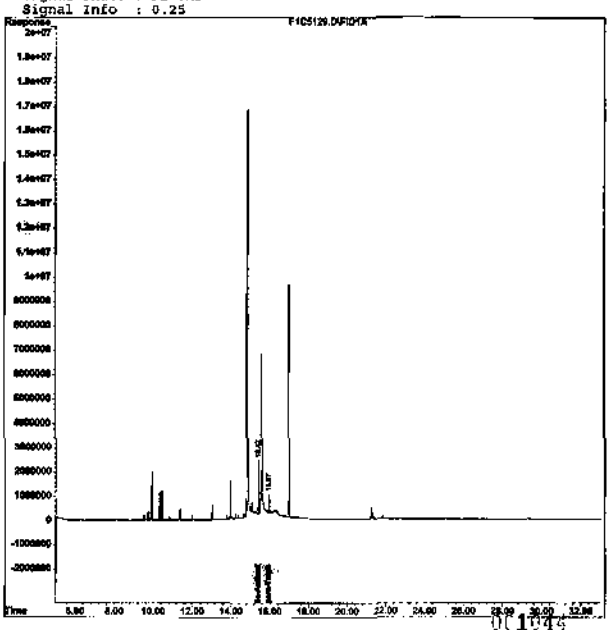
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5129.D ET0909F.M Mon Sep 09 15:20:44 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5129.D Vial: 20
Acq On : 9-7-02 9:48:21 PM Operator:
Sample : A1243-14B Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 15:20 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001044

F1C5129.D ET0909F.M Mon Sep 09 15:20:48 2002 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5129.D Vial: 20
Acq On : 9-7-02 9:48:21 PM Operator:
Sample : A1243-14B Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C5129.D\FID1A

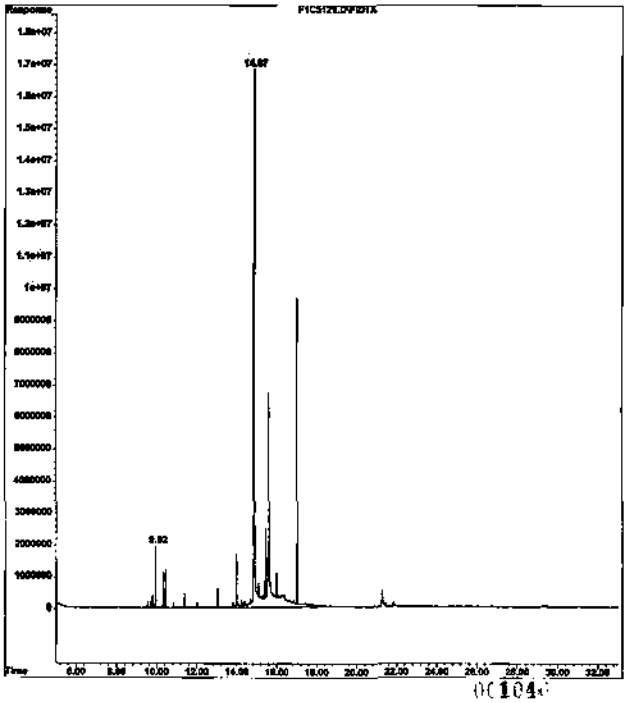
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	9.923	9.441	12.097	M	1969168	93050997	7.25%	6.758%
2	14.869	12.626	19.585	M	16820841	1283812583	100.00%	93.242%

Sum of corrected areas: 1376863580

F1C5129.D ET0909F.M Mon Sep 09 15:21:10 2002 HPDOS9

001045

File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5129.D
Operator :
Acquired : 9-7-02 9:48:21 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1243-14B
Misc Info :
Vial Number: 20



001046

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5131.D Vial: 21
Acq On : 9-7-02 10:31:24 PM Operator:
Sample : A1243-15D Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 15:21 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	15.42	21694810	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.97	18466990	39.031	ng	
Spiked Amount	50.000		Recovery =	78.06%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF 9/9/02

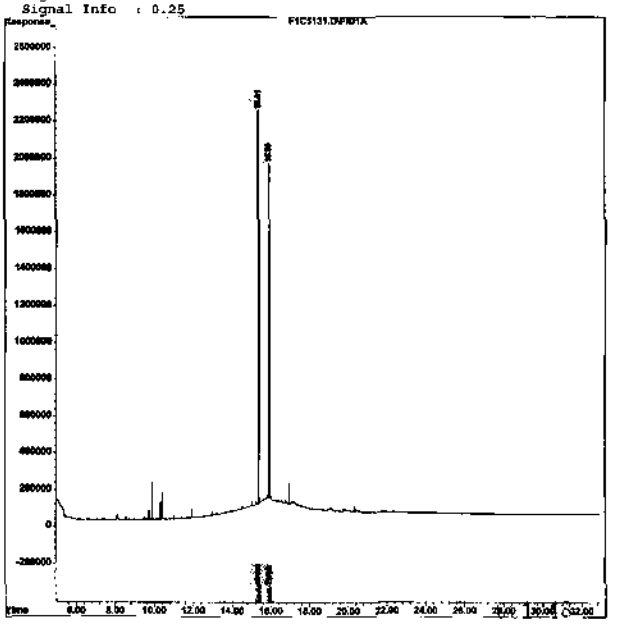
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5131.D ET0909F.M Mon Sep 09 15:22:11 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5131.D Vial: 21
Acq On : 9-7-02 10:31:24 PM Operator:
Sample : A1243-15D Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 15:21 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5131.D ET0909F.M Mon Sep 09 15:22:15 2002 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5131.D Vial: 21
Acq On : 9-7-02 10:31:24 PM Operator:
Sample : A1243-15D Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C5131.D\FID1A

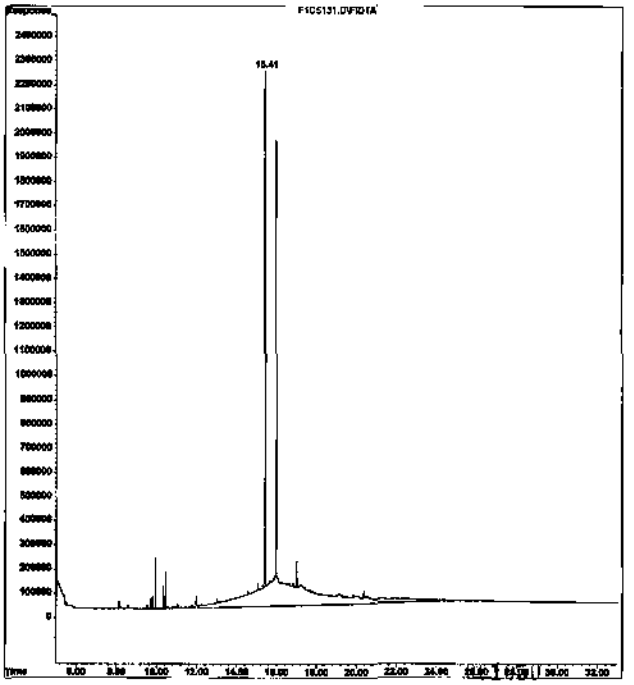
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.415	9.277	24.863	M2214475	338472830	100.00%	100.000%	

Sum of corrected areas: 338472830

F1C5131.D ET0909F.M Mon Sep 09 15:22:36 2002 HPDOS9

001043

File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5131.D
Operator :
Acquired : 9-7-02 10:31:24 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1243-15D
Misc Info :
Vial Number: 21



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1CS133.D Vial: 22
Acq On : 9-7-02 11:14:01 PM Operator:
Sample : A1243-16D Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 15:23 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	15.42	21361754	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.96	18868672	40.506	ng	
Spiked Amount	50.000	Recovery	=	81.01%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF
9/9/02

0C1051

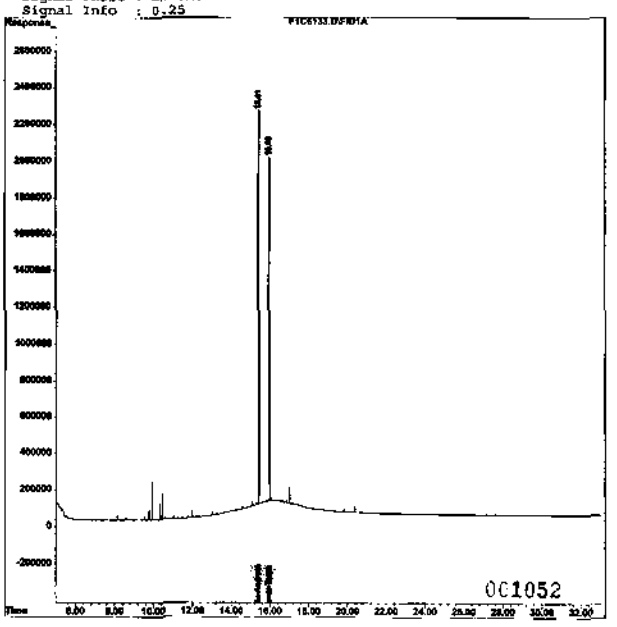
(f)=RT Delta > 1/2 Window (m)=manual int.
F1CS133.D ET0909F.M Mon Sep 09 15:23:31 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1CS133.D Vial: 22
Acq On : 9-7-02 11:14:01 PM Operator:
Sample : A1243-16D Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 15:23 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1CS133.D ET0909F.M Mon Sep 09 15:23:35 2002 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1CS133.D Vial: 22
Acq On : 9-7-02 11:14:01 PM Operator:
Sample : A1243-16D Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1CS133.D\FID1A

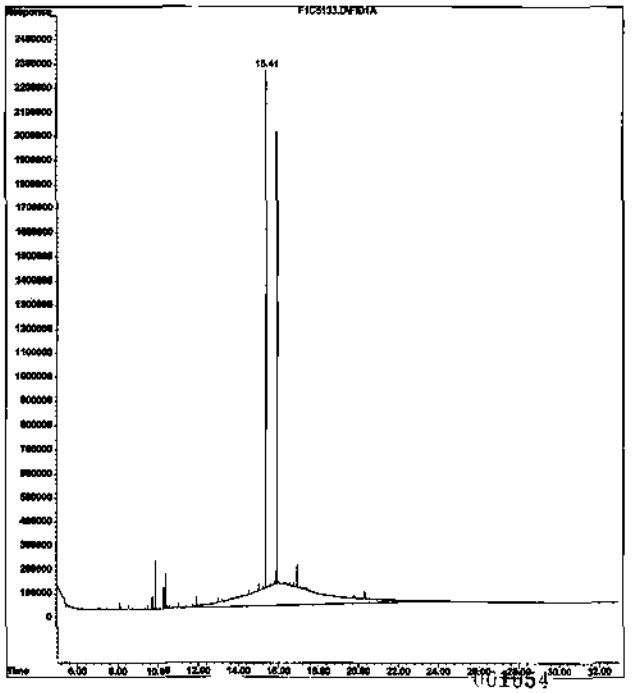
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.415	9.248	24.018	M	2224512	297793806	100.00%	100.000%

Sum of corrected areas: 297793806

F1CS133.D ET0909F.M Mon Sep 09 15:23:51 2002 HPDOS9

0C1053

File : C:\HPCHEM\1\DATA\SEP02\020906\F1CS133.D
Operator :
Acquired : 9-7-02 11:14:01 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1243-16D
Misc Info :
Vial Number: 22



0C1054

front column Response Factors ETPH----09/09/02

Conc. (ug/ml)	Level1A 5	Level 1 25	Level 2 50	Level 3 100	Level 4 200	Level 5 400
5a-Androstane	18729008	21758792	21226740	22325297	22512065	22589086
para-Terphenyl	2126519	11399419	23160835	47569415	100136186	187911162
Nonane C9	2307706	12470286	24635479	49752997	103272300	203189776
Decane C10	2318985	12530678	24739663	49983856	103897356	204501080
Dodecane C12	2342797	12622388	24901287	50368814	104909086	206409340
Tetradecane C14	2383657	12838505	25322960	51253459	106842070	210210099
Hexadecane C16	2354478	12671399	25054648	50745807	105940456	208457446
Octadecane C18	2324995	12504246	24885798	50491246	105637820	207977714
Nonadecane C19	2325955	12463968	24822467	50438487	105585323	208195532
Eicosane C20	2301585	12294385	24546534	49917103	104760770	206742889
Docosane C22	2259463	12352989	24637719	50062964	105260290	208817056
Tetracosane C24	2259463	11993302	24040109	48837307	103197068	205650806
Hexacosane C26	2259694	12071721	24180081	49253482	103917131	206889534
Octacosane C28	2218095	11856172	23760494	48428238	102368747	203958038
Triacontane C30	2167932	11620827	23375159	47746781	101350833	202421732
Hexatriacontane C36	2037541	10520283	21272549	43965335	94636773	189478742
RRF of C9-C36	0.9721	0.8971	0.9157	0.8848	0.9212	0.9044

Mean= 0.9159 Std.Dev= 0.0305 RSD(%)= 3.3284

0C1055

Response Factor Report F1

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002

Calibration Files
CON1 =F1C5085.D CON2 =F1C5087.D CON3 =F1C5089.D
CON4 =F1C5091.D CON5 =F1C5093.D CONA =F1C5083.D

		Compound	CON1	CON2	CON3	CON4	CON5	CONA	Avg		%RSD
1)	I	5a-Androstane	ISTD								
2)	S	para-Terphenyl	0.838	0.873	0.852	0.890	0.872	0.908	0.872	0	2.88
3)		Nonane C9	0.917	0.928	0.891	0.917	0.896	0.986	0.923	0	3.69
4)		DECANE C10	0.921	0.932	0.896	0.923	0.901	0.991	0.927	0	3.66
5)		DODECANE C12	0.928	0.938	0.903	0.932	0.910	1.001	0.935	0	3.72
6)		TETRADECANE C14	0.944	0.954	0.918	0.949	0.926	1.018	0.952	0	3.71
7)		HEXADECANE C 16	0.932	0.944	0.909	0.941	0.919	1.006	0.942	0	3.61
8)		OCTADECANE C18	0.919	0.938	0.905	0.938	0.917	0.993	0.935	0	3.35
9)		NONADECANE C19	0.916	0.935	0.904	0.939	0.918	0.994	0.934	0	3.41
10)		EICOSANE C20	0.904	0.925	0.894	0.931	0.911	0.983	0.925	0	3.41
11)		DOCOSANE C22	0.908	0.928	0.897	0.935	0.920	0.965	0.926	0	2.56
12)		TETRACOSANE C24	0.882	0.906	0.877	0.917	0.906	0.965	0.909	0	3.48
13)		HEXACOSANE C26	0.888	0.911	0.882	0.923	0.912	0.974	0.915	0	3.58
14)		OCTACOSANE C28	0.872	0.895	0.868	0.910	0.899	0.947	0.899	0	3.22
15)		TRIACONTANE C30	0.855	0.881	0.855	0.900	0.892	0.926	0.885	0	3.11
16)		HEXATRIACONTANE C36	0.774	0.802	0.788	0.841	0.835	0.870	0.818	0	4.47

(#) = Out of Range
ET0909F.M Mon Sep 09 14:47:26 2002 HPDOS9 Page 1

0C1056

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5083.D Vial: 1
Acq On : 9-6-02 17:41:05 PM Operator:
Sample : ETPH L1A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:19 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.41	18729008	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.96	2126519	4.481 ng
Spiked Amount	50.000	Recovery	=	8.96%
	Target Compounds			
3)	Nonane C9	8.77	2307706	5.511 ng
4)	DECANE C10	9.59	2318985	5.376 ng
5)	DODECANE C12	11.09	2342797	5.406 ng
6)	TETRADECANE C14	12.24	2383657	5.379 ng
7)	HEXADECANE C 16	13.24	2354478	5.226 ng
8)	OCTADECANE C18	14.14	2324995	5.025 ng
9)	NONADECANE C19	14.56	2325955	5.021 ng
10)	EICOSANE C20	14.96	2301585	4.946 ng
11)	DOCOSANE C22	15.70	2259463	4.791 ng
12)	TETRACOSANE C24	16.41	2259694	4.837 ng
13)	HEXACOSANE C26	17.20	2280254	4.836 ng
14)	OCTACOSANE C28	18.17	2218095	4.753 ng
15)	TRIACONTANE C30	19.45f	2167932	4.700 ng
16)	HEXATRIACONTANE C36	27.36	2037541	4.959 ng

m3 BMF 9/9/02

BMF 9/9/02

(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5083.D ET0717F.M Mon Sep 09 14:19:26 2002 HPDOS9 Page 1

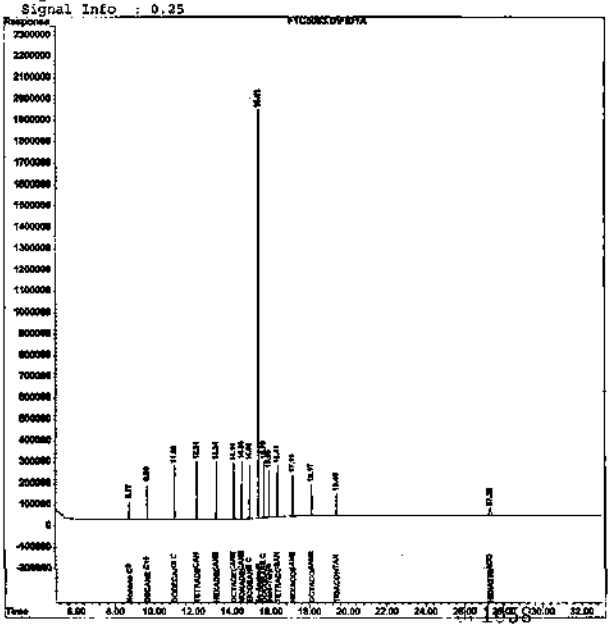
0C1057

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5083.D Vial: 1
Acq On : 9-6-02 17:41:05 PM Operator:
Sample : ETPH L1A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:19 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



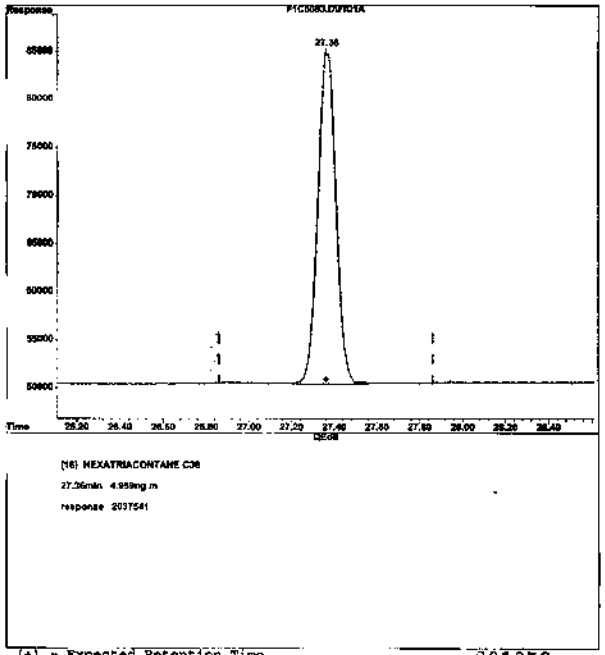
F1C5083.D ET0717F.M Mon Sep 09 14:19:32 2002 HPDOS9 Page 2

0C1058

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5083.D Vial: 1
Acq On : 9-6-02 17:41:05 PM Operator:
Sample : ETPH L1A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:18 19102 Quant Results File: ET0717F.RES

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Multiple Level Calibration



(+) = Expected Retention Time
F1C5083.D ET0717F.M Mon Sep 09 14:19:07 2002 HPDOS9

001059

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5085.D Vial: 2
Acq On : 9-6-02 18:22:35 PM Operator:
Sample : ETPH L1 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:20 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.42	21758792	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.96	11399419	20.678 ng
Spiked Amount	50.000	Recovery	=	41.36%
	Target Compounds			
3)	Nonane C9	8.77	12470286	25.634 ng
4)	DECANE C10	9.69	12530578	25.002 ng
5)	DODECANE C12	11.09	12622886	25.071 ng
6)	TETRADECANE C14	12.24	12838505	24.936 ng
7)	HEXADECANE C 16	13.24	12571099	24.208 ng
8)	OCTADECANE C18	14.14	12504246	23.260 ng
9)	NONADECANE C19	14.56	12453968	23.142 ng
10)	EICOSANE C20	14.96	12294065	22.739 ng
11)	DOCOSANE C22	15.70	12352989	22.548 ng
12)	TETRACOSANE C24	16.41	11993302	22.096 ng
13)	HEXACOSANE C26	17.20	12071721	22.037 ng
14)	OCTACOSANE C28	18.17	11859172	21.875 ng
15)	TRIACONTANE C30	19.46f	11620827	21.687 ng
16)	HEXATRIACONTANE C36	27.39	10520283	22.040 ng

emf 9/9/02

(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5085.D ET0717F.M Mon Sep 09 14:21:20 2002 HPDOS9 Page 1

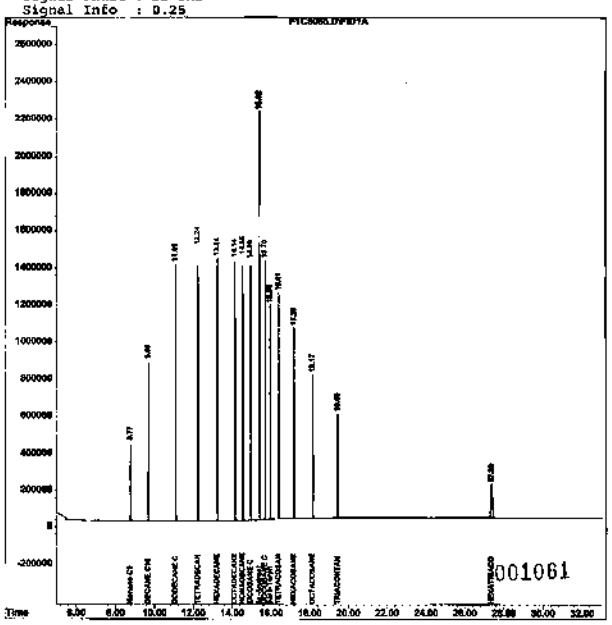
001060

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5085.D Vial: 2
Acq On : 9-6-02 18:22:35 PM Operator:
Sample : ETPH L1 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:20 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001061

F1C5085.D ET0717F.M Mon Sep 09 24:21:26 2002 HPDOS9 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5087.D Vial: 3
Acq On : 9-6-02 19:04:39 PM Operator:
Sample : ETPH L2 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:22 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.42	21228740	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.97	23160835	43.061 ng
Spiked Amount	50.000	Recovery	=	86.12%
	Target Compounds			
3)	Nonane C9	8.78	24635479	51.906 ng
4)	DECANE C10	9.70	24739663	50.596 ng
5)	DODECANE C12	11.10	24901267	50.694 ng
6)	TETRADECANE C14	12.24	25322960	50.412 ng
7)	HEXADECANE C 16	13.25	25054648	49.060 ng
8)	OCTADECANE C18	14.15	24885796	47.448 ng
9)	NONADECANE C19	14.56	24822467	47.277 ng
10)	EICOSANE C20	14.96	24546534	46.534 ng
11)	DOCOSANE C22	15.71	24637719	46.094 ng
12)	TETRACOSANE C24	16.41	24040109	45.396 ng
13)	HEXACOSANE C26	17.20	24180081	45.243 ng
14)	OCTACOSANE C28	18.18	23760494	44.923 ng
15)	TRIACONTANE C30	19.46f	23375159	44.712 ng
16)	HEXATRIACONTANE C36	27.40	21272549	45.678 ng

emf 9/9/02

001062

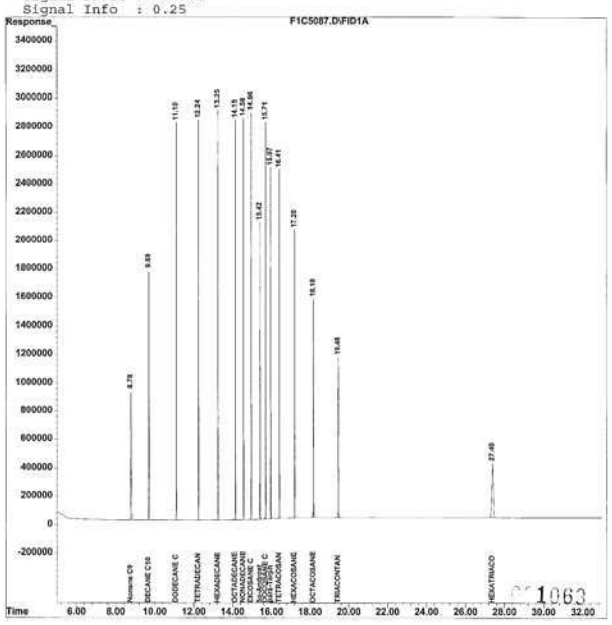
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5087.D ET0717F.M Mon Sep 09 14:22:46 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5087.D Vial: 3
Acq On : 9-6-02 19:04:39 PM Operator:
Sample : ETPH L2 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:22 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



00 1063

F1C5087.D ET0717F.M Mon Sep 09 14:22:51 2002 HPDOS9 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5089.D Vial: 4
Acq On : 9-6-02 19:46:54 PM Operator:
Sample : ETPH L3 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:23 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5a-Androstane	15.42	22325297	40.000 ng
System Monitoring Compounds			
2) S para-Terphenyl	15.97	47569415	84.098 ng
Spiked Amount 50.000	Recovery	=	168.20%
Target Compounds			
3) Nonane C9	8.78	49752997	99.679 ng
4) DECANE C10	9.70	49983856	97.202 ng
5) DODECANE C12	11.10	50389614	97.545 ng
6) TETRADECANE C14	12.24	51253459	97.022 ng
7) HEXADECANE C 16	13.25	50745807	94.486 ng
8) OCTADECANE C18	14.15	50491246	91.540 ng
9) NONADECANE C19	14.56	50438467	91.346 ng
10) EICOSANE C20	14.96	49917193	89.983 ng
11) DOCOSANE C22	15.71	50052964	89.042 ng
12) TETRACOSANE C24	16.42	48937307	87.872 ng
13) HEXACOSANE C26	17.21	49253482	87.631 ng
14) OCTACOSANE C28	18.18	48428236	87.064 ng
15) TRIACONTANE C30	19.47f	47746791	86.844 ng
16) HEXATRIACONTANE C36	27.43	43985335	89.810 ng

BMF 9/9/02

00 1064

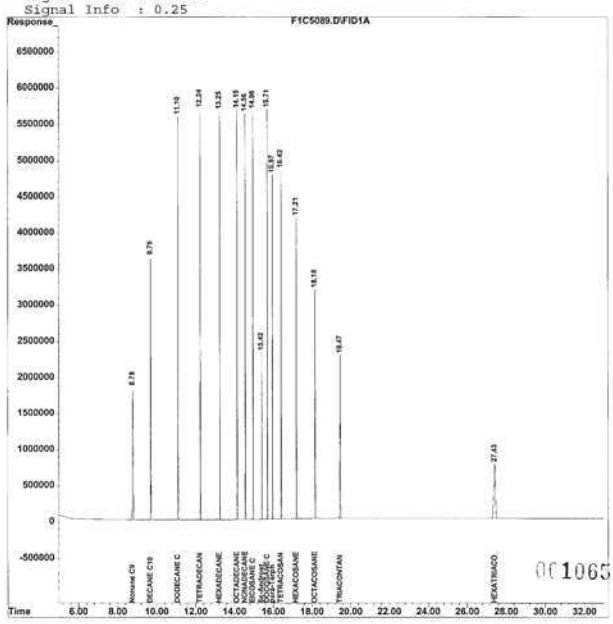
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5089.D ET0717F.M Mon Sep 09 14:24:51 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5089.D Vial: 4
Acq On : 9-6-02 19:46:54 PM Operator:
Sample : ETPH L3 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:23 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



00 1065

F1C5089.D ET0717F.M Mon Sep 09 14:24:57 2002 HPDOS9 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5091.D Vial: 5
Acq On : 9-6-02 20:29:08 PM Operator:
Sample : ETPH L4 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:25 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5a-Androstane	15.42	22512065	40.000 ng
System Monitoring Compounds			
2) S para-Terphenyl	15.98	100136188	175.562 ng
Spiked Amount 50.000	Recovery	=	351.12%
Target Compounds			
3) Nonane C9	8.78	103272300	205.186 ng
4) DECANE C10	9.70	103897356	200.370 ng
5) DODECANE C12	11.10	104909086	201.400 ng
6) TETRADECANE C14	12.25	106842070	200.572 ng
7) HEXADECANE C 16	13.25	105940458	195.619 ng
8) OCTADECANE C18	14.15	105637620	189.930 ng
9) NONADECANE C19	14.57	105685523	189.813 ng
10) EICOSANE C20	14.97	104780770	187.315 ng
11) DOCOSANE C22	15.71	105260290	185.701 ng
12) TETRACOSANE C24	16.42	103197088	183.764 ng
13) HEXACOSANE C26	17.21	103917131	183.355 ng
14) OCTACOSANE C28	18.19	102388747	182.547 ng
15) TRIACONTANE C30	19.49f	101350833	182.813 ng
16) HEXATRIACONTANE C36	27.47	94636773	191.629 ng

BMF 9/9/02

00 1066

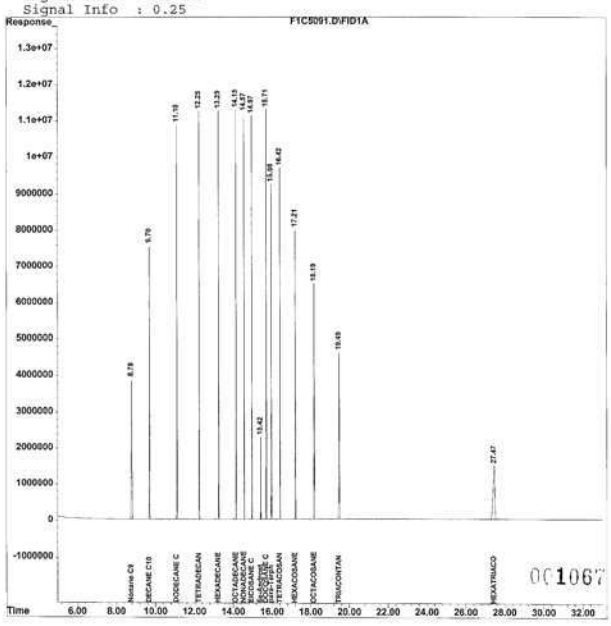
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5091.D ET0717F.M Mon Sep 09 14:26:04 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5091.D Vial: 5
Acq On : 9-6-02 20:29:08 PM Operator:
Sample : ETPH L4 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:25 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001067

F1C5091.D ET0717F.M Mon Sep 09 14:26:10 2002 HPDOS9 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5093.D Vial: 6
Acq On : 9-6-02 21:11:13 PM Operator:
Sample : ETPH L5 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:26 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.42	22689086	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.98	197911162	344.277 ng
Spiked Amount	50.000		Recovery =	688.55%
	Target Compounds			
3)	Nonane C9	8.78	203189776	400.558 ng
4)	DECANE C10	9.70	204501080	391.311 ng
5)	DODECANE C12	11.11	206409340	393.165 ng
6)	TETRADECANE C14	12.25	210210099	391.544 ng
7)	HEXADECANE C 16	13.26	208457446	381.914 ng
8)	OCTADECANE C18	14.16	207977714	371.015 ng
9)	NONADECANE C19	14.57	208195532	371.005 ng
10)	EICOSANE C20	14.97	206742689	366.708 ng
11)	DOCOSANE C22	15.72	208817055	365.522 ng
12)	TETRACOSANE C24	16.43	205650806	363.347 ng
13)	HEXACOSANE C26	17.22	206869534	362.159 ng
14)	OCTACOSANE C28	18.20	203959038	360.797 ng
15)	TRIACONTANE C30	19.50f	202421732	362.272 ng
16)	HEXATRIACONTANE C36	27.54	189478842	380.679 ng

BMF 9/9/02

001068

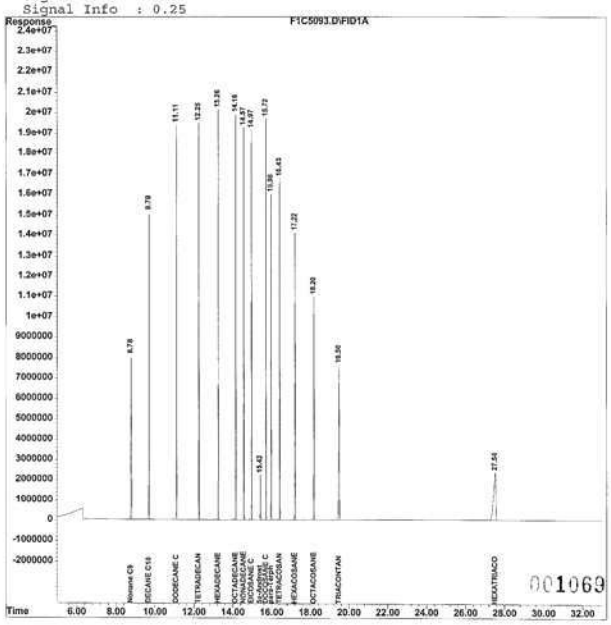
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5093.D ET0717F.M Mon Sep 09 14:27:02 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5093.D Vial: 6
Acq On : 9-6-02 21:11:13 PM Operator:
Sample : ETPH L5 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:26 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001069

F1C5093.D ET0717F.M Mon Sep 09 14:27:08 2002 HPDOS9 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5121.D Vial: 94
Acq On : 9-7-02 6:58:43 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:48 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.42	22399776	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.97	24400557	49.954 ng
Spiked Amount	50.000		Recovery =	99.91%
	Target Compounds			
3)	Nonane C9	8.78	25654548	49.656 ng
4)	DECANE C10	9.69	25732855	49.551 ng
5)	DODECANE C12	11.10	25908255	49.465 ng
6)	TETRADECANE C14	12.24	26386394	49.508 ng
7)	HEXADECANE C 16	13.24	26307983	49.882 ng
8)	OCTADECANE C18	14.14	26090445	49.828 ng
9)	NONADECANE C19	14.56	26138942	49.967 ng
10)	EICOSANE C20	14.96	25840654	49.898 ng
11)	DOCOSANE C22	15.70	25904800	49.972 ng
12)	TETRACOSANE C24	16.41	25324521	49.758 ng
13)	HEXACOSANE C26	17.20	25473084	49.711 ng
14)	OCTACOSANE C28	18.17	25064056	49.812 ng
15)	TRIACONTANE C30	19.46	24655141	49.754 ng
16)	HEXATRIACONTANE C36	27.39	23378604	51.021 ng

CCV=100%.
BMF 9/9/02

001070

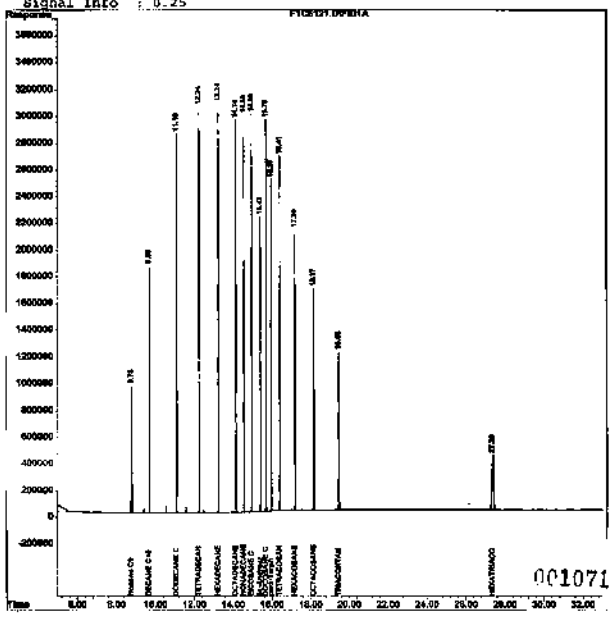
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5121.D ET0909F.M Mon Sep 09 14:48:42 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5121.D Vial: 94
Acq On : 9-7-02 6:58:43 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:48 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5139.D Vial: 94
Acq On : 9-7-02 13:20:42 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:49 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.42	22833819	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.97	24555412	49.315 ng
Spiked Amount	50.000	Recovery	=	98.63%
	Target Compounds			
3)	Nonane C9	8.78	26057993	49.478 ng
4)	DECANE C10	9.69	26130094	49.360 ng
5)	DODECANE C12	11.10	26264259	49.192 ng
6)	TETRADECANE C14	12.24	26766156	49.266 ng
7)	HEXADECANE C 16	13.24	26745582	49.748 ng
8)	OCTADECANE C18	14.14	26560527	49.761 ng
9)	NONADECANE C19	14.56	26654228	49.983 ng
10)	EICOSANE C20	14.96	26382560	49.976 ng
11)	DOCOSANE C22	15.70	26574115	50.288 ng
12)	TETRACOSANE C24	16.41	26169539	50.441 ng
13)	HEXACOSANE C26	17.20	26291935	50.333 ng
14)	OCTACOSANE C28	18.18	25876215	50.449 ng
15)	TRIACONTANE C30	19.46	25489191	50.459 ng
16)	HEXATRIACONTANE C36	27.39	23988077	51.356 ng

CCV=100%
BMF
9/9/02

001072

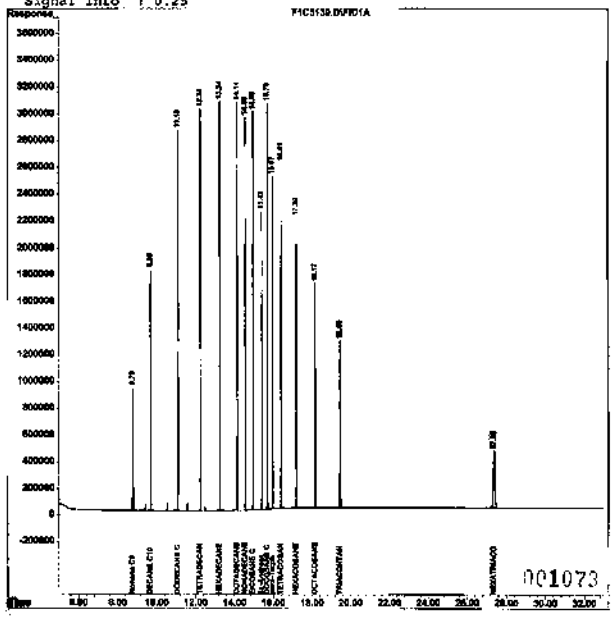
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5139.D ET0909F.M Mon Sep 09 14:49:43 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5139.D Vial: 94
Acq On : 9-7-02 13:20:42 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:49 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5099.D Vial: 8
Acq On : 9-6-02 23:17:07 PM Operator:
Sample : F0821-BW1 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:54 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units	
	Internal Standards				
1) I	5a-Androstane	15.42	22854040	40.000 ng	
	System Monitoring Compounds				
2) S	para-Terphenyl	15.97	12291306	24.663 ng	
Spiked Amount	50.000	Recovery	=	49.33%	
	Target Compounds				
3)	Nonane C9	0.00	0	N.D. ng	
4)	DECANE C10	0.00	0	N.D. ng	
5)	DODECANE C12	0.00	0	N.D. ng	
6)	TETRADECANE C14	0.00	0	N.D. ng	
7)	HEXADECANE C 16	0.00	0	N.D. ng	
8)	OCTADECANE C18	0.00	0	N.D. ng	
9)	NONADECANE C19	0.00	0	N.D. ng	
10)	EICOSANE C20	0.00	0	N.D. ng	d
11)	DOCOSANE C22	0.00	0	N.D. ng	d
12)	TETRACOSANE C24	0.00	0	N.D. ng	d
13)	HEXACOSANE C26	0.00	0	N.D. ng	
14)	OCTACOSANE C28	0.00	0	N.D. ng	
15)	TRIACONTANE C30	0.00	0	N.D. ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D. ng	

BMF
9/9/02

001074

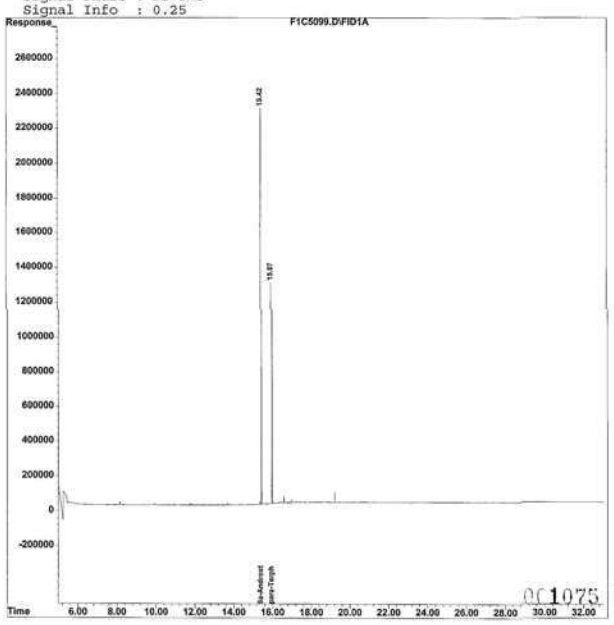
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5099.D ET0909F.M Mon Sep 09 14:55:15 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5099.D Vial: 8
Acq On : 9-6-02 23:17:07 PM Operator:
Sample : F0821-BW1 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:54 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



00 1075

F1C5099.D ET0909F.M Mon Sep 09 14:55:19 2002 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5099.D Vial: 8
Acq On : 9-6-02 23:17:07 PM Operator:
Sample : F0821-BW1 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C5099.D\FID1A

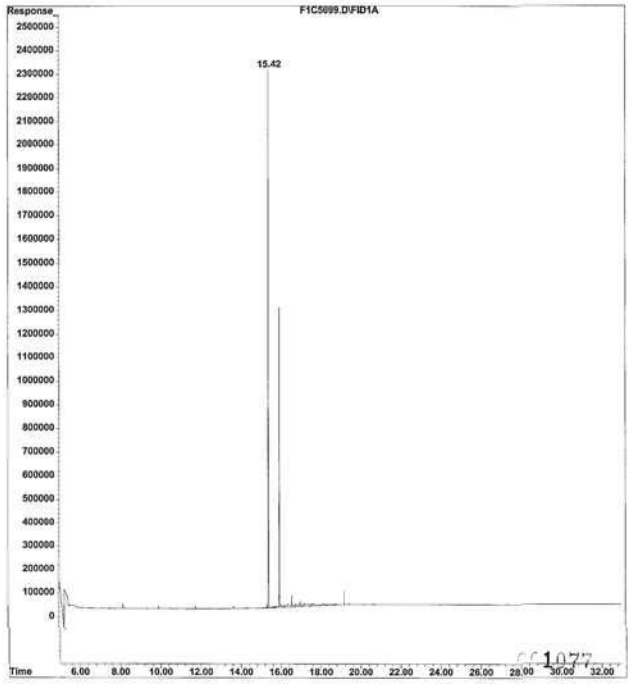
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.417	14.879	18.885	M	2279531	46460765	100.000%	100.000%

Sum of corrected areas: 46460765

F1C5099.D ET0909F.M Mon Sep 09 14:55:46 2002 HPDOS9

00 1076

File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5099.D
Operator :
Acquired : 9-6-02 23:17:07 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: F0821-BW1
Misc Info :
Vial Number: 8



00 1077

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5101.D Vial: 9
Acq On : 9-6-02 23:59:19 PM Operator:
Sample : F0821-LW1 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:56 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.42	21414201	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.97	17204096	36.842 ng
Spiked Amount	50.000	Recovery	=	73.68% ✓
	Target Compounds			
3)	Nonane C9	8.78	17197548	34.819 ng
4)	DECANE C10	9.70	20061774	40.409 ng
5)	DODECANE C12	11.10	21883594	43.704 ng
6)	TETRADECANE C14	12.24	22885556	44.916 ng
7)	HEXADECANE C 16	13.24	23609723	46.826 ng
8)	OCTADECANE C18	14.14	23756111	47.458 ng
9)	NONADECANE C19	14.56	23463403	46.917 ng
10)	EICOSANE C20	14.96	23422890	47.311 ng
11)	DOCOSANE C22	15.71	23447569	47.313 ng
12)	TETRACOSANE C24	16.41	23052239	47.378 ng
13)	HEXACOSANE C26	17.20	23153621	47.264 ng
14)	OCTACOSANE C28	18.18	22727822	47.248 ng
15)	TRIACONTANE C30	19.47	22107088	46.665 ng
16)	HEXATRIACONTANE C36	27.40	19832526	45.274 ng

LCS 90%
BNF
9/9/02

00 1078

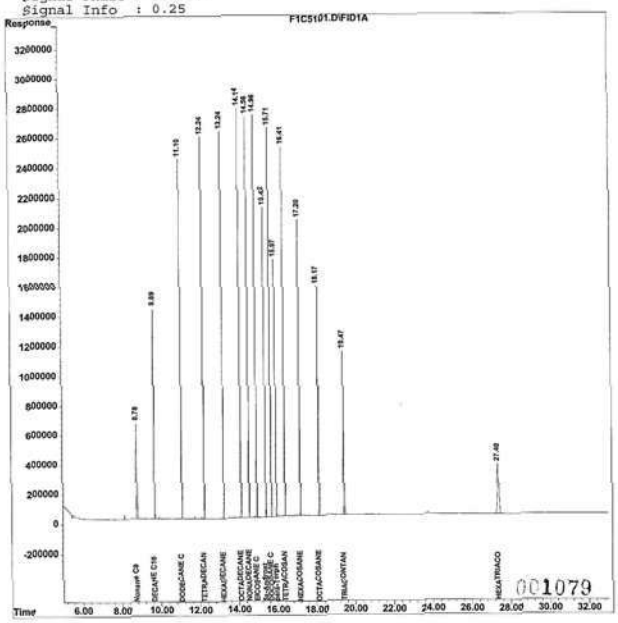
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5101.D ET0909F.M Mon Sep 09 14:56:31 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5101.D Vial: 9
Acq On : 9-6-02 23:59:19 PM Operator:
Sample : F0821-LW1 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:56 19102 Quant Results File: ET0909F.RES

Quant Method : Q:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5103.D Vial: 10
Acq On : 9-7-02 0:41:25 PM Operator:
Sample : F0821-LW1DUP Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:56 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.42	22735880	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.97	18091186	36.490 ng
Spiked Amount	50.000		Recovery =	72.98% ✓
	Target Compounds			
3)	Nonane C9	8.78	18449422	35.182 ng
4)	DECANE C10	9.70	21494078	40.777 ng
5)	DODECANE C12	11.10	23335710	43.895 ng
6)	TETRADECANE C14	12.24	24127166	44.600 ng
7)	HEXADECANE C 16	13.24	25022292	46.743 ng
8)	OCTADECANE C18	14.14	25044216	47.123 ng
9)	NONADECANE C19	14.56	24723091	46.562 ng
10)	EICOSANE C20	14.96	24676549	46.946 ng
11)	DOCOSANE C22	15.71	24700671	46.945 ng
12)	TETRACOSANE C24	16.41	24274429	46.990 ng
13)	HEXACOSANE C26	17.20	24349375	46.815 ng
14)	OCTACOSANE C28	18.17	23830420	46.661 ng
15)	TRIACONTANE C30	19.46	22893901	45.516 ng
16)	HEXATRIACONTANE C36	27.40	19157192	41.190 ng

LCS = 89%
BMF
9/9/02

001080

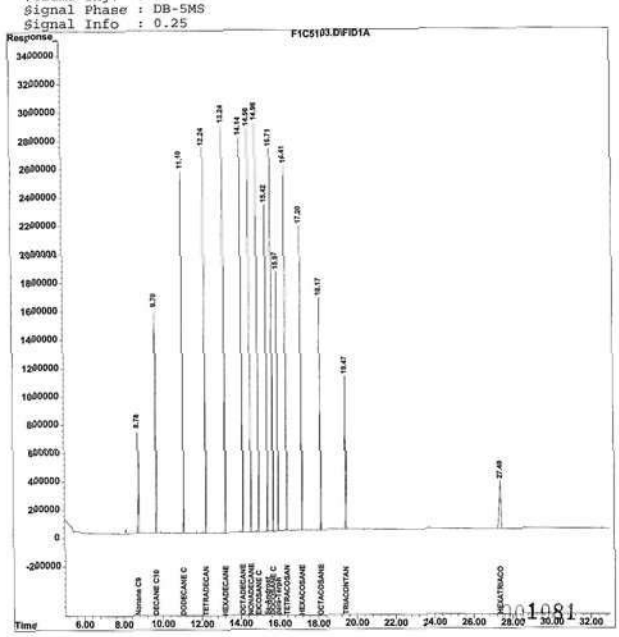
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5103.D Vial: 10
Acq On : 9-7-02 0:41:25 PM Operator:
Sample : F0821-LW1DUP Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:56 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



MITKEM CORPORATION EXTRACT TRANSFER LOGBOOK: SEMIVOLATILE ANALYSIS

Date Transferred from Prep Lab	Lab ID		Transferred By	Received By	Storage Location	Comments
8-22-02	So819	BS1	PP	CW	L7	
	A1234	001				
		001MS				
		001MSD				
		002				
		003				
		004				
		005				
		006				
		007				
		008				Fuel Mix
		009				
	A1234	010				
	So821	BW1				
	↓	LW1				
	So821	LW10				
	A1243	004				
		011				
	↓	015				
	A1243	016				
	A1244	003				
		003				
		004				
		005				
		006				
		007				
		008				
		009				
	↓	010				
	A1244	011				
	GPC0820	SB1				
	GPC0821	SB1		CW	R7	
	F0821	BW1		BMF	R12A	
	↓	LW1	↓	BMF	R12A	
8-22-02	F0821	LW1D	PP	BMF	R12A	

001082

QAT00141

Log ID: 9SV-12 Reviewed By: BMF 09/08/02 Page: 051

MITKEM CORPORATION: TPH/EPH Run Logbook

Date	Lab ID	Client	Method	Filename	Dilution	yes/no	Analyst	Comments
9/6/02	A1243-16D		ETPH-B	FIC5133			BMF	
9/6/02	IBLK		↓	FIC5135			↓	
9/6/02	ETPH CCV and 5 more		ETPH-B	FIC5137			BMF	
9/6/02	A1243-16BD		ETPH-B	FIC5133		✓	BMF	
↓	A1243-03E		↓	↓ 35	10		↓	
	IBLK			↓ 37				
9/6/02	ETPHCCV		ETPH-B	FIC5139		✓	BMF	

QAT00146

9PB-12

Reviewed By: SBL 9/10/02

Page: 000058

MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : SEMIVOLATILES

#3100

Date: 8-21-02

Analysis: ETPH

Method & SOP #: (Aq: 3510C (SepF) 3520C (Liq/Liq) Soil: 3550B (Sonic) 3540C (Soxhlet))

Matrix: (Aqueous) Soil Wipe Oil Other:

Project(s): A1243

Time Started: 3:00

Time Ended: 3:00

Blank ID: F0821 BW1

LCS ID: F0821 LW1 LW10

Analyst: BP

Spiked By: BP

Witness: BP

Solvent Lot#: X10400

H_2SO_4 Lot#:

NaOH Lot#:

Project ID	Sample ID	Sample Wt (g) / Vol (ml)	Surrogate Spike Added	Matrix Spike Added	H_2SO_4 pH<2	NaOH pH > 10	Emulsion	KD Prior to Fractionation Date / Analyst	Fractionation Date / Analyst	Final Concentration Date / Analyst	Final Conc. Volume	Date Extract Trans.
										8/23/02	BP	8/23/02
F0821	BW1	1000 ml	05 W0025 03B 1ml									
↓	LW1			05 W0025 03B 1ml								
F0821	LW10			05 W0025 03B 1ml								
A1243	001											
↓	002											
	003											
	004											
	006											
	007											
	008											
	010											
	011											
	014											
	015											
A1243-16D	016	1000 ml	05 W0025 03B 1ml							8/23/02	BP	8/23/02

BP 8/31/02

BP 8/31/02

Comments:

Sonicator Tuned: Yes / No

Water Bath Temperature: 40°C

Logbookk ID 50.0147-2/02

Reviewed By: BP 8/24/02

Logbook Page 000027

MITKEM CORPORATION: Sample Receipt Tracking Logbook

Project	Date Received	Client	Storage Location	#'s/ Analyst/ Date In	#'s/ Analyst/ Date Out	#'s/ Analyst/ Date In	#'s/ Analyst/ Date Out	#'s/ Analyst/ Date In	#'s/ Analyst/ Date Out	#'s/ Analyst/ Date In	Dispose After	Date Disposed
A1241	8-20-02	EPA	CFloor VOA	01-07 01-08	1-7 BP 8/22	Empty BP					11-20-02	
A1242	8/20/02	EA	A5: #1-11	VOA #1-11 8/20/02	1C #1-11 8/20/02						10-20-02	
A1243*	8-23-02 8-20-02 8-21-02 8-22-02	HRP	E1 VOA M1 M3 E4 SUB	01-17, 18 01-05, 01-12, 13, 14 01-04 01-04 02-04,	2-4, 6, 7, 8/22 08, 09, 11, 12, 13 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24	2-4, 6, 7, 8/22 13 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24	4, 11, 15, 16 BP 8/31 (6-5) 10, 12 15-16 17, 20, 22	Empty BP 8/31 6, 7, 8/22 15-16	17, 18, 20, 21 28, 22, 23 24, 27-31 T3 8/24 22, 24, 26, 28 27, 28, 33 37, 40 V1 T3 8/24	Empty T3	11-20-02	
A1244	8-20-02 8-21-02	Tetra Tech	VOA M2 E4	01-11, 12-16 02-11 12, 13, 15, 16 03-11,	2-11 BP 8/31 12, 13, 15, 16	2, 13, 15, 16 BP 8/22	Empty BP	2-11, 12, 15, 16			11-20-02	
A1245	8-21-02	SOUTHWEST	A1	01-04	1-4 BP 8-21-02 1-7 BP 8-21-02						10-21-02	

Logbook ID 30.0187-1/02

Reviewed By: RD

Logbook page 1

MITKEM CORPORATION: TPH/EPH Run Logbook

Date	Lab ID	Client	Method	Filename	Dilution	yes/no	Analyst	Comments
9/6/02	ETPH L1A		ETPH-B	FIC5083		✓	BMF	
	L1			85		✓		
	L2			87		✓		
	L3			89		✓		
	L4			91		✓		
	↓ L5			93		✓		
	ETPH 2S			95		✓		
	IBLK			97				
	F0821-BW1			↓ 99		✓		
	F0821-LW1			FIC5101		✓		
	F0821-LW10			03		✓		
	A1243-01C			05		✓		
	02E			07		✓		
	03E			09		✓		
	04E			11		✓		
	06D			13		✓		
	↓ 07D			15		✓		
	A1243-08D			17		✓		
	IBLK			19				
	ETPHCCV			21		✓		
	IBLK			23				
	A1243-10D			25		✓		
	A1243-11D			27		✓		
↓	A1243-14B		↓	↓ 29		✓	↓	
9/6/02	A1243-15D		ETPH-B	FIC5131		✓	BMF	

QAT00146

9PB-12

Reviewed By: SBL 9/10/02

Page: 000057

MITKEM CORPORATION

* Total Petroleum Hydrocarbons *

"B" SDG

001087

MITKEM CORPORATION

Analysis Report: Extractable Total Petroleum Hydrocarbons

Client: HRP Associates
Analysis: CT-ETPH, 3/99
Matrix: Aqueous

Concentration in: mg/L

Lab ID	Client ID	Result	Reporting Limit	p-Terphenyl Surrogate % Recovery	Analysis Date
A1243-17F	13MW11	0.11	0.10	57	9/7/02
A1243-18F	13MW33	ND	0.10	79	9/7/02
A1243-20F	EMW36	ND	0.10	38	9/7/02
A1243-24E	6MW29	0.70	0.10	47	9/7/02
A1243-28F	3MW27	0.33	0.10	79	9/7/02
A1243-32A	5MW28	2.3	0.10	53	9/7/02
A1243-33F	12MW17	0.18	0.10	72	9/7/02
A1243-34E	MW14	0.18	0.10	58	9/7/02
A1243-37E	MW37	0.40	0.10	90	9/7/02
A1243-38E	MW10	ND	0.10	70	9/7/02
A1243-39E	MW16	ND	0.10	51	9/7/02
A1243-40E	12MW20	ND	0.10	78	9/7/02
A1243-41E	12MW25	ND	0.10	78	9/7/02
QA/QC					
Method Blank					
F0824-BW1		ND	0.10	43	9/6/02
Lab Control Sample (% Recovery)					
F0824-LW1		82		53	9/7/02
F0824-LW1DUP		85		50	9/7/02

ND = Not Detected

001088

Page 1 of 1

A1243-ETPH

TPH-AQ

A1243 ETPH AQUEOUS

Sample	Total Area	Inter.area	Surr.area	Mean RRF	Inc.C.(ug/ml)	Sam. (L)	FV (ml)	Dilu.	TPH (mg/L)	REP. L (mg/L)	Surr.(%)
F0824-BW1	61,680,820	28,213,798	13,116,573	0.9061	40.00	1	1.0	1	0.03	0.07	43
A1243-17F	114,228,002	27,755,508	17,139,392	0.9061	40.00	1	1.0	1	0.11	0.07	57
A1243-18F	89,933,580	27,125,834	23,271,873	0.9061	40.00	1	1.0	1	0.06	0.07	79
A1243-20F	72,258,754	27,829,481	11,400,102	0.9061	40.00	1	1.0	1	0.05	0.07	38
A1243-24E	476,280,963	27,382,837	13,978,791	0.9061	40.00	1	1.0	1	0.70	0.07	47
A1243-28F	264,347,779	28,096,597	24,157,339	0.9061	40.00	1	1.0	1	0.33	0.07	79
A1243-32A	1,850,582,676	34,877,165	20,148,923	0.9061	40.00	0.5	1.0	1	2.27	0.07	53
A1243-33F	183,413,368	27,768,003	21,760,353	0.9061	40.00	1	1.0	1	0.18	0.07	72
A1243-34E	159,778,356	28,221,292	17,696,595	0.9061	40.00	1	1.0	1	0.18	0.07	58
A1243-37E	306,807,725	27,777,440	27,440,685	0.9061	40.00	1	1.0	1	0.40	0.07	90
A1243-38E	104,555,080	27,768,087	21,319,857	0.9061	40.00	1	1.0	1	0.09	0.07	70
A1243-39E	90,271,250	27,814,830	15,466,330	0.9061	40.00	1	1.0	1	0.07	0.07	51
A1243-40E	94,177,946	27,125,526	23,098,509	0.9061	40.00	1	1.0	1	0.07	0.07	78
A1243-41E	88,716,406	27,422,889	23,454,559	0.9061	40.00	1	1.0	1	0.06	0.07	78

TPH (mg/L) =[Total Area - Inter. Area - Surr. Area]* Int.C.(ug/ml)*FV(ml)* Dilu.
(Inter. Area* RRF* Sam.(L)* 1000)

Page 1

001089

```
                    Quantitation Report    (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5106.D  Vial: 26
Acq On    : 9-7-02 2:05:41 PM                           Operator:
Sample    : A1243-17F                                   Inst    : F1
Misc      :                                             Multiplr: 1.00
IntFile   : AUTOINT1.E
Quant Time: Sep  9 12:25 19102  Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title        : TPH-GC, Fuel ID, DRO
Last Update  : Mon Sep 09 12:06:11 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj.  : 1
Signal Phase : DB-5MS
Signal Info  : 0.25

      Compound                          R.T.       Response     Conc Units
-------------------------------------------------------------------------------

   Internal Standards
 1) I   5a-Androstane                  14.88      27755508     40.000 ng

   System Monitoring Compounds
 2) S   para-Terphenyl                 15.46      17139392     28.311 ng
Spiked Amount   50.000          Recovery        =              56.62%

   Target Compounds
 3)       Nonane C9                    0.00             0     N.D.  ng
 4)       DECANE C10                   0.00             0     N.D.  ng
 5)       DODECANE C12                 0.00             0     N.D.  ng
 6)       TETRADECANE C14              0.00             0     N.D.  ng
 7)       HEXADECANE C 16              0.00             0     N.D.  ng
 8)       OCTADECANE C18               0.00             0     N.D.  ng
 9)       NONADECANE C19               0.00             0     N.D.  ng
10)       EICOSANE C20                 0.00             0     N.D.  ng   d
11)       DOCOSANE C22                 0.00             0     N.D.  ng   d
12)       TETRACOSANE C24              0.00             0     N.D.  ng   d
13)       HEXACOSANE C26               0.00             0     N.D.  ng   d
14)       OCTACOSANE C28               0.00             0     N.D.  ng
15)       TRIACONTANE C30              0.00             0     N.D.  ng
16)       HEXATRIACONTANE C36          0.00             0     N.D.  ng
```

BMF 9/9/02

001090

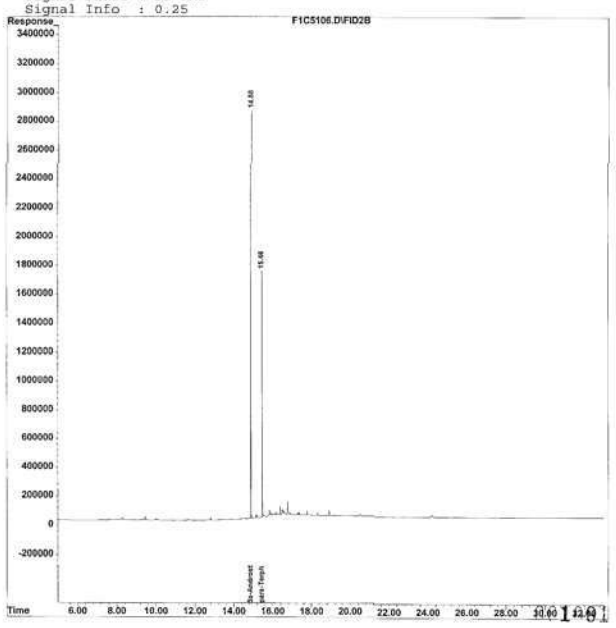
```
(f)=RT Delta > 1/2 Window                          (m)=manual int.
F1C5106.D  ET0909R.M      Mon Sep 09 12:25:23 2002     HPDOS9      Page 1
```

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5106.D Vial: 26
Acq On : 9-7-02 2:05:41 PM Operator:
Sample : A1243-17F Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:25 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5106.D ET0909R.M Mon Sep 09 12:25:31 2002 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5106.D Vial: 26
Acq On : 9-7-02 2:05:41 PM Operator:
Sample : A1243-17F Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C5106.D\FID2B

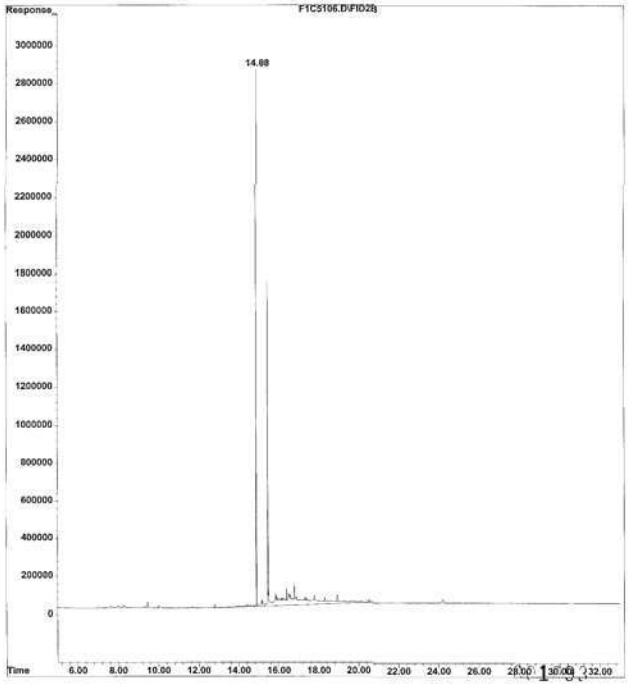
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.883	12.692	21.182	M	2835555	114228002	100.00%	100.000%

Sum of corrected areas: 114228002

F1C5106.D ET0909R.M Mon Sep 09 12:29:41 2002 HPDOS9

001092

File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5106.D
Operator :
Acquired : 9-7-02 2:05:41 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1243-17F
Misc Info :
Vial Number: 26



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5108.D Vial: 27
Acq On : 9-7-02 2:47:50 PM Operator:
Sample : A1243-18F Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:30 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I 5a-Androstane	14.88	27125831	40.000	ng	
	System Monitoring Compounds					
2)	S para-Terphenyl	15.46	23271873	39.333	ng	
Spiked Amount	50.000	Recovery	=	78.67%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	
14)	OCTACOSANE C28	0.00	0	N.D.	ng	
15)	TRIACONTANE C30	0.00	0	N.D.	ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

BMF
9/9/02

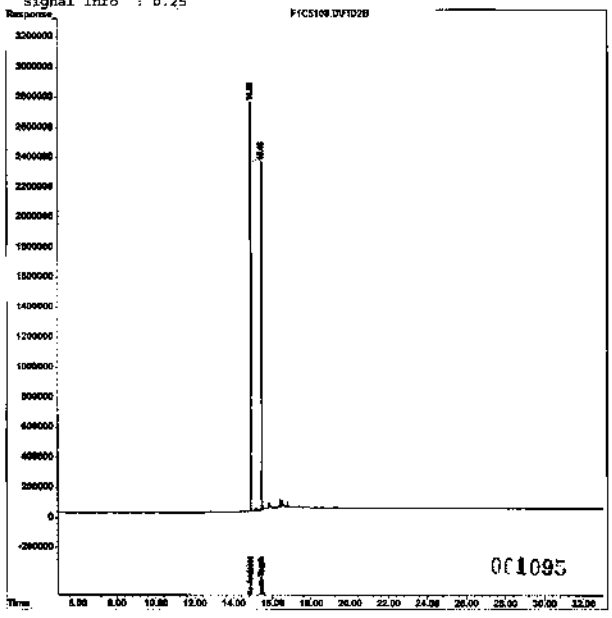
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5108.D ET0909R.M Mon Sep 09 12:30:53 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5108.D Vial: 27
Acq On : 9-7-02 2:47:50 PM Operator:
Sample : A1243-18F Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:30 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5108.D ET0909R.M Mon Sep 09 12:31:00 2002 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5108.D Vial: 27
Acq On : 9-7-02 2:47:50 PM Operator:
Sample : A1243-18F Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C5108.D\FID2B

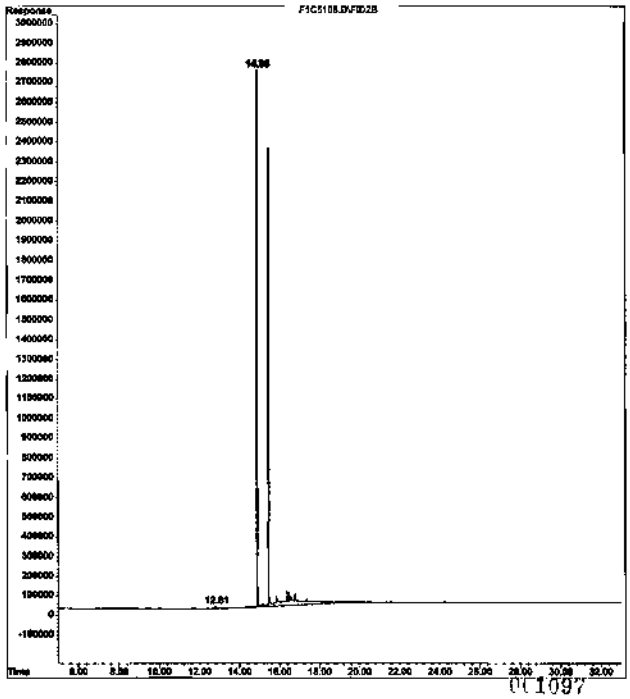
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	12.807	12.100	14.162	M	11857	1958518	2.23%	2.178%
2	14.885	14.178	19.611	M	2722397	87975062	100.00%	97.822%

Sum of corrected areas: 89933580

F1C5108.D ET0909R.M Mon Sep 09 12:31:37 2002 HPDOS9

001096

File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5108.D
Operator :
Acquired : 9-7-02 2:47:50 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1243-18F
Misc Info :
Vial Number: 27



001097

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5110.D Vial: 28
Acq On : 9-7-02 3:29:42 PM Operator:
Sample : A1243-20F Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:32 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.88	27829481	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.46	11400102	18.781	ng	
Spiked Amount	50.000	Recovery	=	37.56%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	
14)	OCTACOSANE C28	0.00	0	N.D.	ng	
15)	TRIACONTANE C30	0.00	0	N.D.	ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

BMF 9/9/02

001098

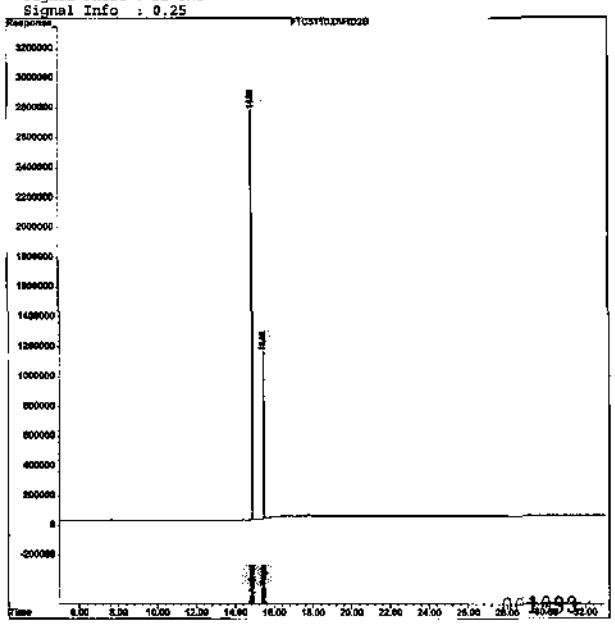
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5110.D ET0909R.M Mon Sep 09 12:32:53 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5110.D Vial: 28
Acq On : 9-7-02 3:29:42 PM Operator:
Sample : A1243-20F Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:32 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5110.D ET0909R.M Mon Sep 09 12:33:00 2002 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5110.D Vial: 28
Acq On : 9-7-02 3:29:42 PM Operator:
Sample : A1243-20F Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C5110.D\FID2B

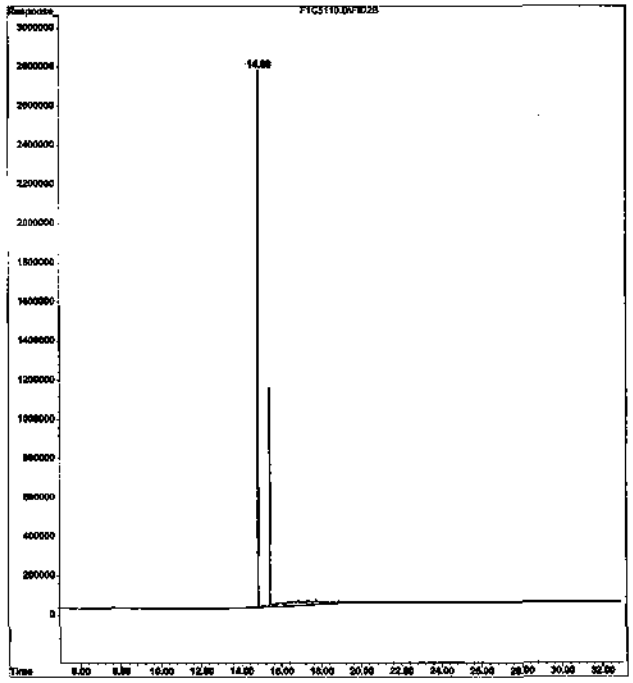
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.882	14.264	20.146	M	2746187	72258754	100.000	100.000%

Sum of corrected areas: 72258754

F1C5110.D ET0909R.M Mon Sep 09 12:33:21 2002 HPDOS9

00 1100

File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5110.D
Operator :
Acquired : 9-7-02 3:29:42 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1243-20F
Misc Info :
Vial Number: 28



00 1101

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5112.D Vial: 29
Acq On : 9-7-02 4:11:25 PM Operator:
Sample : A1243-24E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:34 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.88	27882837	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.46	13978791	23.404	ng	
Spiked Amount	50.000	Recovery	=	46.81%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF
9/9/02

00 1102

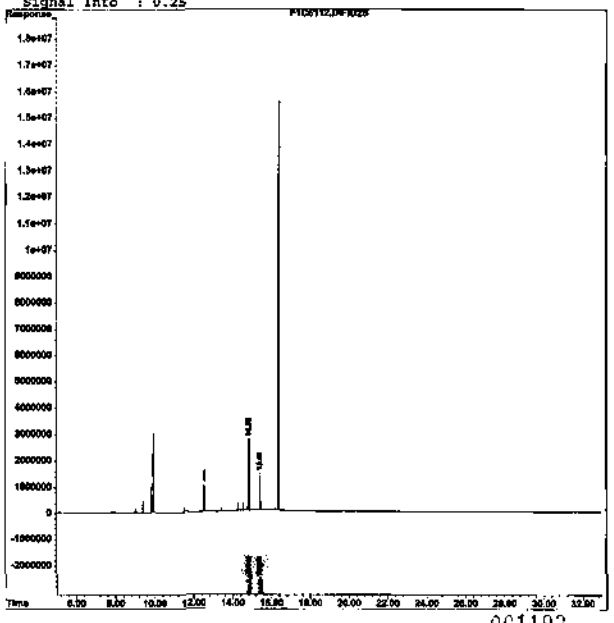
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5112.D ET0909R.M Mon Sep 09 12:34:38 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5112.D Vial: 29
Acq On : 9-7-02 4:11:25 PM Operator:
Sample : A1243-24E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:34 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5112.D ET0909R.M Mon Sep 09 12:34:45 2002 HPDOS9 Page 2

OC1103

Area Percent Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5112.D Vial: 29
Acq On : 9-7-02 4:11:25 PM Operator:
Sample : A1243-24E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C5112.D\FID2B

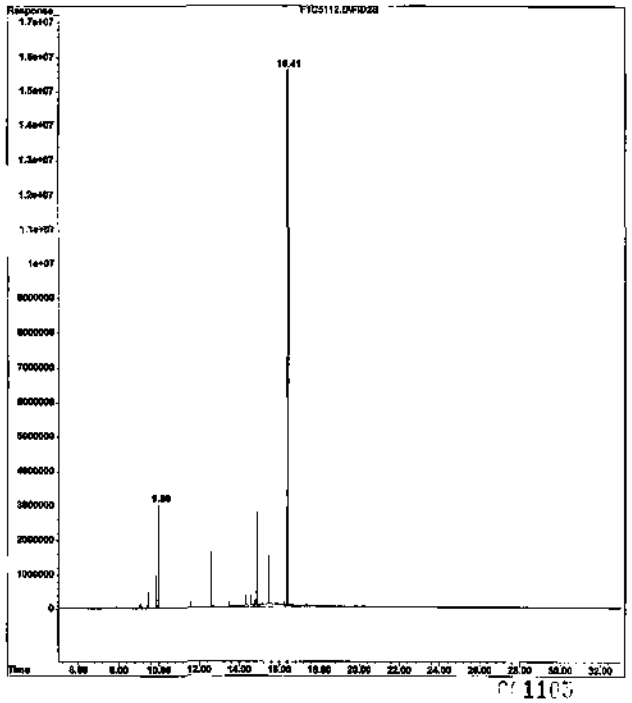
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	9.962	9.011	11.855	M	3010570	75222394	18.76%	15.794%
2	16.406	12.435	17.544	M	15560342	401058569	100.00%	84.206%

Sum of corrected areas: 476280963

F1C5112.D ET0909R.M Mon Sep 09 12:35:10 2002 HPDOS9

OC1104

File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5112.D
Operator :
Acquired : 9-7-02 4:11:25 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1243-24E
Misc Info :
Vial Number: 29



OC1105

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5114.D Vial: 30
Acq On : 9-7-02 4:53:34 PM Operator:
Sample : A1243-26F Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:36 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.88	28096697	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.46	24157839	39.418	ng	
Spiked Amount	50.000	Recovery	=	78.84%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BNF 9/9/02

(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5114.D ET0909R.M Mon Sep 09 12:36:23 2002 HPDOS9 Page 1

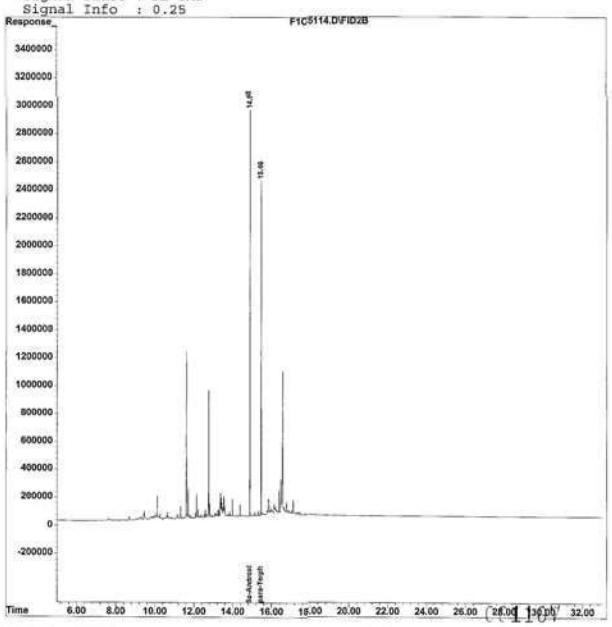
OC1106

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5114.D Vial: 30
Acq On : 9-7-02 4:53:34 PM Operator:
Sample : A1243-28F Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:36 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5114.D ET0909R.M Mon Sep 09 12:36:30 2002 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5114.D Vial: 30
Acq On : 9-7-02 4:53:34 PM Operator:
Sample : A1243-28F Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C5114.D\FID2B

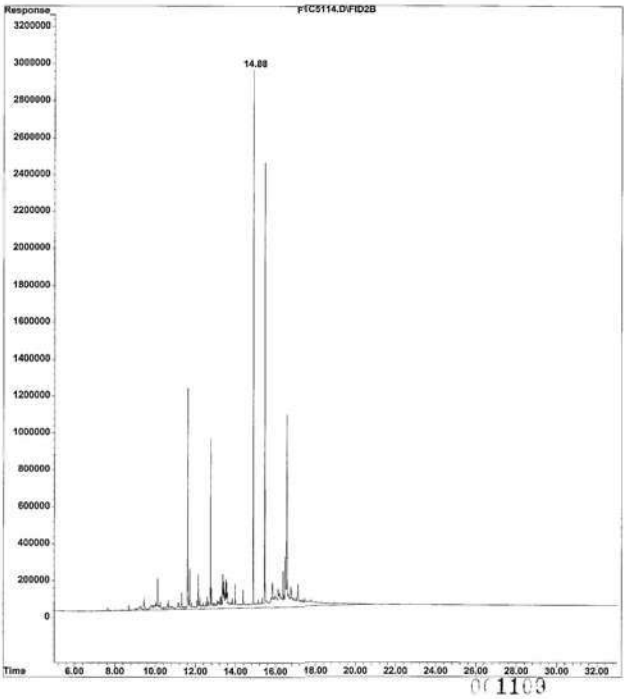
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.882	7.527	20.856	M	2914430	264347779	100.000%	100.000%

Sum of corrected areas: 264347779

F1C5114.D ET0909R.M Mon Sep 09 12:36:56 2002 HPDOS9

001108

File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5114.D
Operator :
Acquired : 9-7-02 4:53:34 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1243-28F
Misc Info :
Vial Number: 30



001109

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5116.D Vial: 31
Acq On : 9-7-02 5:35:07 PM Operator:
Sample : A1243-32A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:38 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.88	34877165	40.000	ng	m
	System Monitoring Compounds					
2) S	para-Terphenyl	15.46	20148923	26.486	ng	
Spiked Amount	50.000		Recovery =	52.97%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	d
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF 9/10/02

9/10/02 x 2 = 106%. BMF 9/10/02

0.5 g extracted
0.5 ml final volume
500 µl Spike added
OK SA 9/10/02

BMF 9/9/02

(f)=RT Delta > 1/2 Window (m)=manual Int.
F1C5116.D ET0909R.M Mon Sep 09 12:38:21 2002 HPDOS9 Page 1

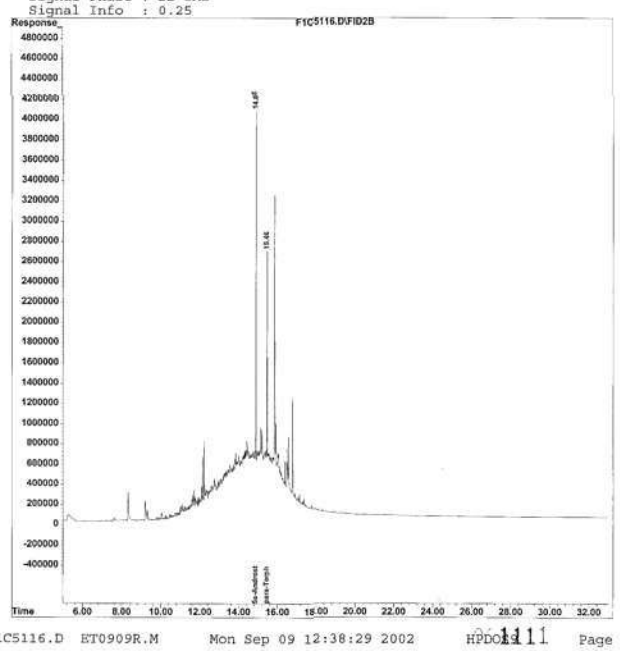
001110

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5116.D Vial: 31
Acq On : 9-7-02 5:35:07 PM Operator:
Sample : A1243-32A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:38 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



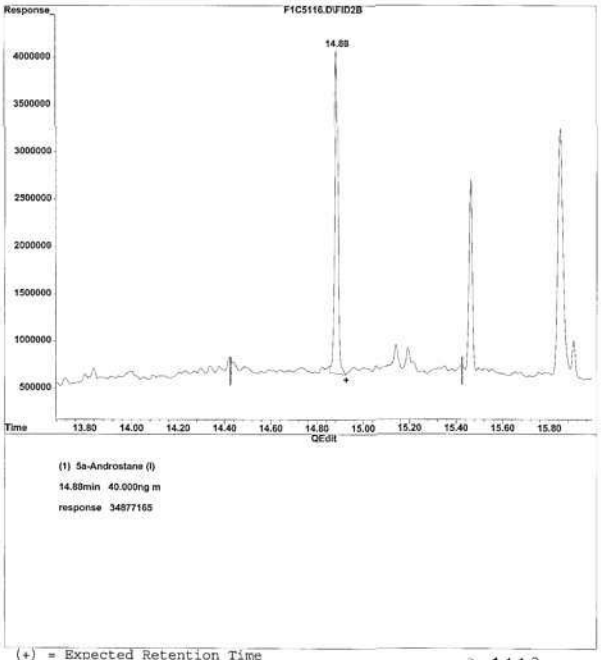
F1C5116.D ET0909R.M Mon Sep 09 12:38:29 2002 HPDOS9 Page 2

1111

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5116.D Vial: 31
Acq On : 9-7-02 5:35:07 PM Operator:
Sample : A1243-32A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:37 19102 Quant Results File: ET0909R.RES

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Multiple Level Calibration



(+) = Expected Retention Time

F1C5116.D ET0909R.M Mon Sep 09 12:37:52 2002 HPDOS9

1112

Area Percent Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5116.D Vial: 31
Acq On : 9-7-02 5:35:07 PM Operator:
Sample : A1243-32A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C5116.D\FID2B

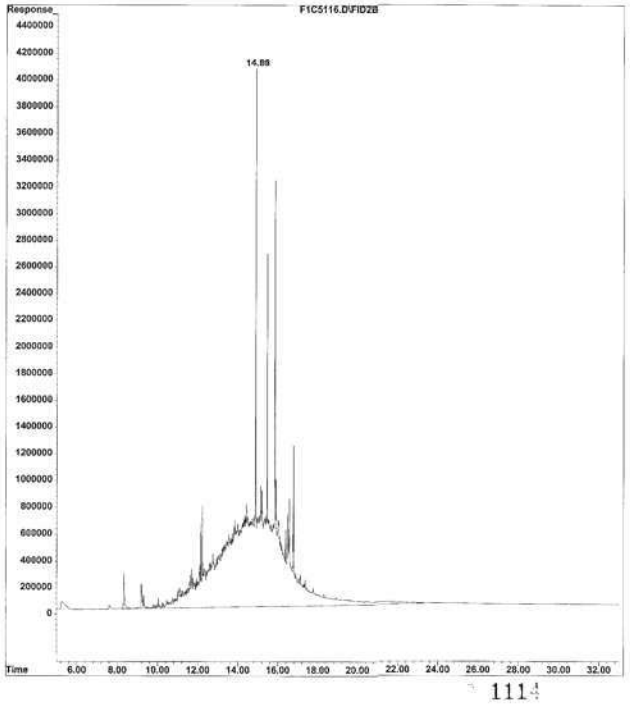
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.884	8.203	23.305	M	4028969	1850582676	100.00	100.000%

Sum of corrected areas: 1850582676

F1C5116.D ET0909R.M Mon Sep 09 12:38:51 2002 HPDOS9

1113

File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5116.D
Operator :
Acquired : 9-7-02 5:35:07 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1243-32A
Misc Info :
Vial Number: 31



1114

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5118.D Vial: 32
Acq On : 9-7-02 6:16:39 PM Operator:
Sample : A1243-33F Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:45 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.88	21768503	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.46	21760953	35.928 ng
Spiked Amount	50.000	Recovery	=	71.86%
	Target Compounds			
3)	Nonane C9	0.00	0	N.D. ng d
4)	DECANE C10	0.00	0	N.D. ng d
5)	DODECANE C12	0.00	0	N.D. ng d
6)	TETRADECANE C14	0.00	0	N.D. ng d
7)	HEXADECANE C 16	0.00	0	N.D. ng d
8)	OCTADECANE C18	0.00	0	N.D. ng d
9)	NONADECANE C19	0.00	0	N.D. ng d
10)	EICOSANE C20	0.00	0	N.D. ng d
11)	DOCOSANE C22	0.00	0	N.D. ng d
12)	TETRACOSANE C24	0.00	0	N.D. ng d
13)	HEXACOSANE C26	0.00	0	N.D. ng d
14)	OCTACOSANE C28	0.00	0	N.D. ng d
15)	TRIACONTANE C30	0.00	0	N.D. ng d
16)	HEXATRIACONTANE C36	0.00	0	N.D. ng d

BNF 9/9/02

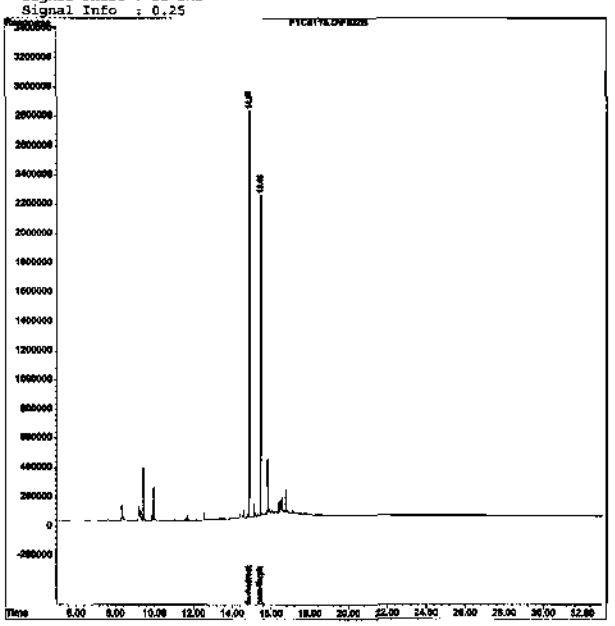
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5118.D ET0909R.M Mon Sep 09 12:46:06 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5118.D Vial: 32
Acq On : 9-7-02 6:16:39 PM Operator:
Sample : A1243-33F Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:45 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5118.D ET0909R.M Mon Sep 09 12:46:14 2002 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5118.D Vial: 32
Acq On : 9-7-02 6:16:39 PM Operator:
Sample : A1243-33F Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C5118.D\FID2B

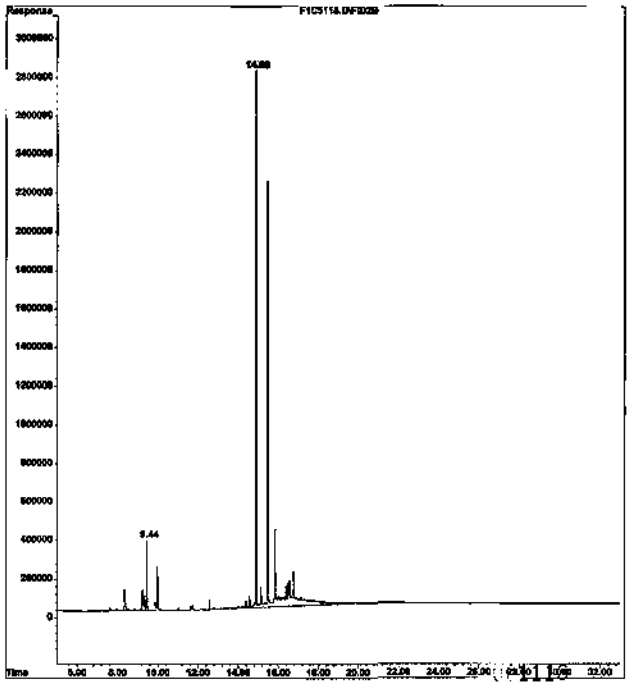
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	% max.	% of total
1	9.441	8.277	10.290	M	364221	23677432	16.94%	14.489%
2	14.882	12.412	19.749	M	2786808	139735935	100.00%	85.511%

Sum of corrected areas: 163413368

F1C5118.D ET0909R.M Mon Sep 09 12:46:42 2002 HPDOS9

1117

File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5118.D
Operator :
Acquired : 9-7-02 6:16:39 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1243-33F
Misc Info :
Vial Number: 32



1118

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5126.D Vial: 33
Acq On : 9-7-02 9:06:00 PM Operator:
Sample : A1243-34E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:48 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I 5a-Androstane	14.88	28221292	40.000	ng	
	System Monitoring Compounds					
2)	S para-Terphenyl	15.46	17696595	28.749	ng	
Spiked Amount	50.000	Recovery	=	57.50%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	
15)	TRIACONTANE C30	0.00	0	N.D.	ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

BMK 9/9/02

(f)=RT Delta > 1/2 Window (m)=manual int.

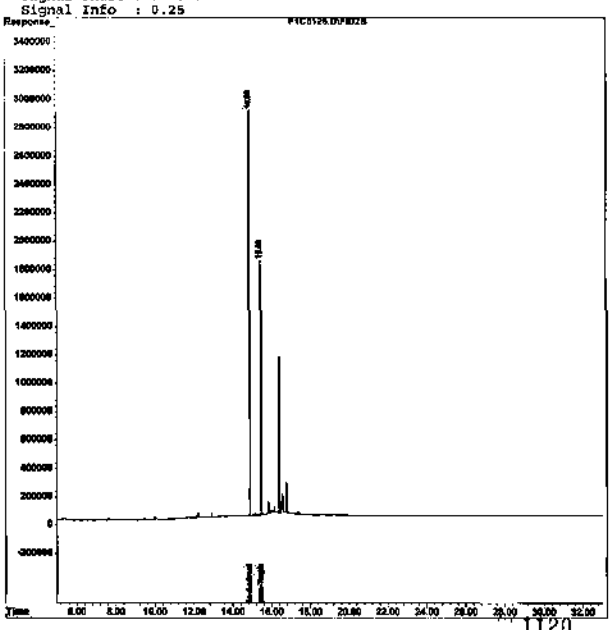
1119

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5126.D Vial: 33
Acq On : 9-7-02 9:06:00 PM Operator:
Sample : A1243-34E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:48 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



1120

Area Percent Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5126.D Vial: 33
Acq On : 9-7-02 9:06:00 PM Operator:
Sample : A1243-34E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C5126.D\FID2B

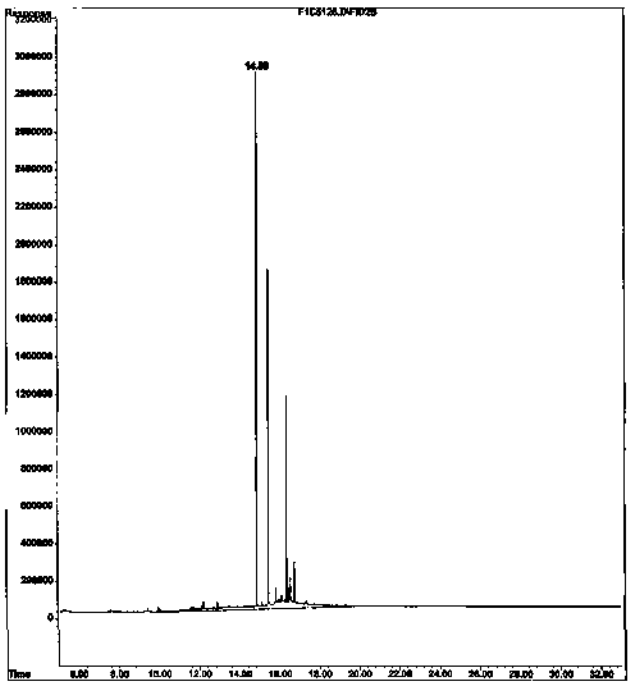
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.883	9.610	19.034	M	2872182	159778356	100.00%	100.000%

Sum of corrected areas: 159778356

F1C5126.D ET0909R.M Mon Sep 09 12:49:06 2002 HPDOS9

1121

File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5126.D
Operator :
Acquired : 9-7-02 9:06:00 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1243-34E
Misc Info :
Vial Number: 33



1122

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5128.D Vial: 34
Acq On : 9-7-02 9:48:21 PM Operator:
Sample : A1243-37E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:49 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.88	27777440	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.46	27440685	45.291	ng	
Spiked Amount	50.000		Recovery =	90.58%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	d
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF 9/9/02

1123

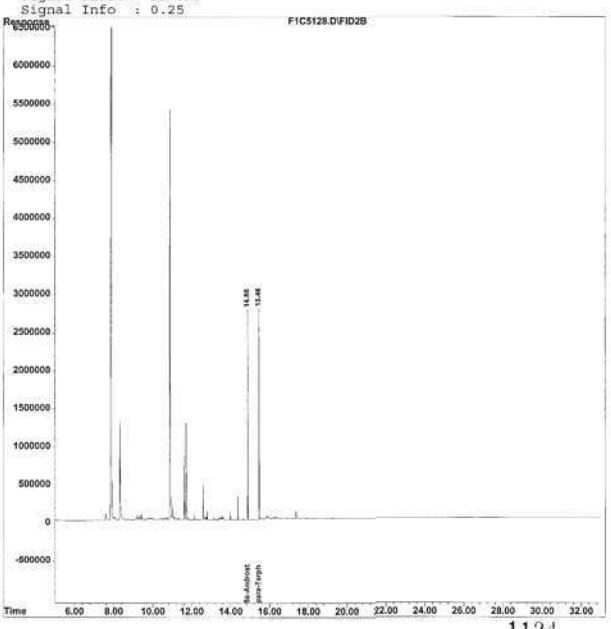
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5128.D ET0909R.M Mon Sep 09 12:50:16 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5128.D Vial: 34
Acq On : 9-7-02 9:48:21 PM Operator:
Sample : A1243-37E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:49 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5128.D ET0909R.M Mon Sep 09 12:50:23 2002 HPDOS9 1124 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5128.D Vial: 34
Acq On : 9-7-02 9:48:21 PM Operator:
Sample : A1243-37E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C5128.D\FID2B

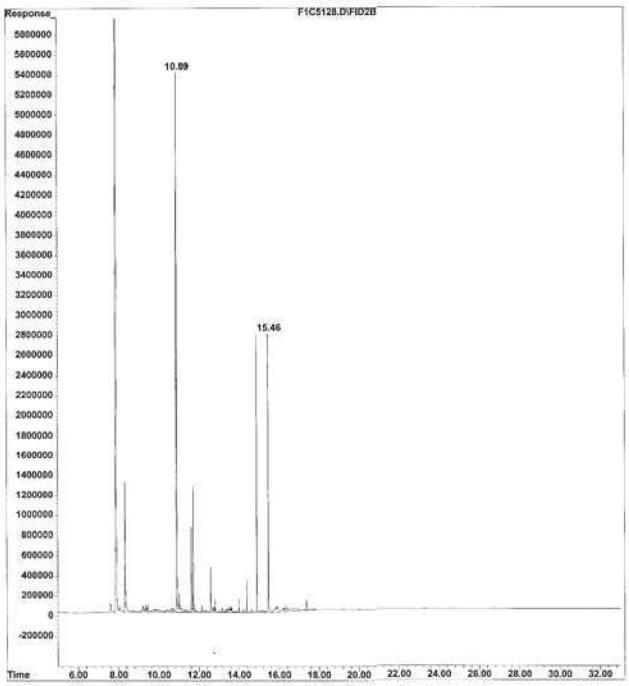
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	% max.	% of total
1	10.892	8.250	15.117	M	5388731	249679637	100.00%	81.380%
2	15.460	15.173	17.817	M	2781745	57128088	22.88%	18.620%

Sum of corrected areas: 306807725

F1C5128.D ET0909R.M Mon Sep 09 12:50:59 2002 HPDOS9

1125

File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5128.D
Operator :
Acquired : 9-7-02 9:48:21 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1243-37E
Misc Info :
Vial Number: 34



001126

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5130.D Vial: 35
Acq On : 9-7-02 10:31:24 PM Operator:
Sample : A1243-38E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:51 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units	
	Internal Standards				
1) I	5a-Androstane	14.88	27768087	40.000 ng	
	System Monitoring Compounds				
2) S	para-Terphenyl	15.46	21319857	35.200 ng	
Spiked Amount	50.000		Recovery =	70.40%	
	Target Compounds				
3)	Nonane C9	0.00	0	N.D. ng	
4)	DECANE C10	0.00	0	N.D. ng	
5)	DODECANE C12	0.00	0	N.D. ng	
6)	TETRADECANE C14	0.00	0	N.D. ng	
7)	HEXADECANE C 16	0.00	0	N.D. ng	
8)	OCTADECANE C18	0.00	0	N.D. ng	
9)	NONADECANE C19	0.00	0	N.D. ng	
10)	EICOSANE C20	0.00	0	N.D. ng	d
11)	DOCOSANE C22	0.00	0	N.D. ng	d
12)	TETRACOSANE C24	0.00	0	N.D. ng	d
13)	HEXACOSANE C26	0.00	0	N.D. ng	d
14)	OCTACOSANE C28	0.00	0	N.D. ng	
15)	TRIACONTANE C30	0.00	0	N.D. ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D. ng	

BMF 9/9/02

(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5130.D ET0909R.M Mon Sep 09 12:52:13 2002 HPDOS9 Page 1

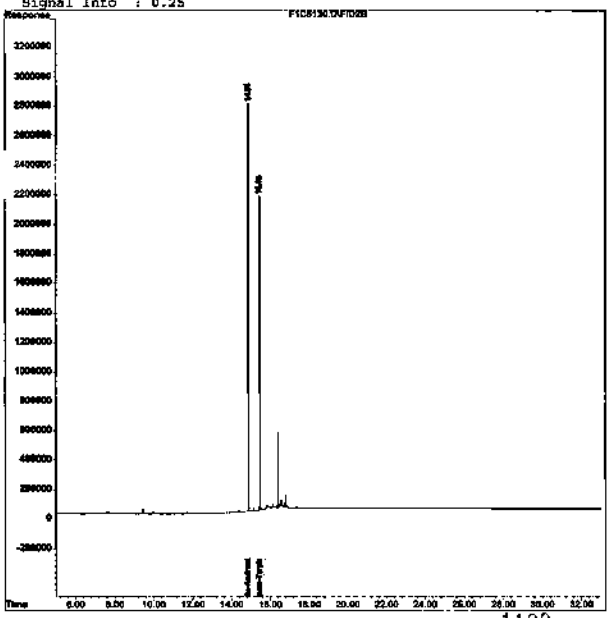
1128

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5130.D Vial: 35
Acq On : 9-7-02 10:31:24 PM Operator:
Sample : A1243-38E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:51 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5130.D ET0909R.M Mon Sep 09 12:52:20 2002 HPDOS9 Page 2

1128

Area Percent Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5130.D Vial: 35
Acq On : 9-7-02 10:31:24 PM Operator:
Sample : A1243-38E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C5130.D\FID2B

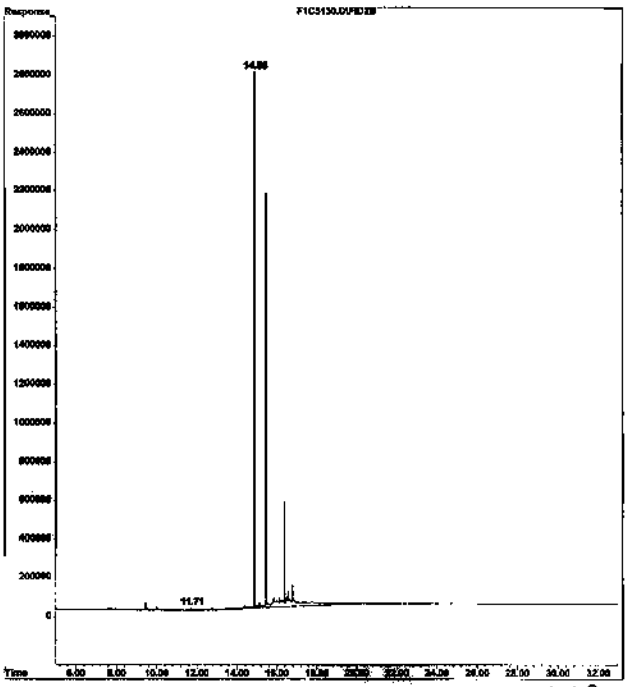
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	11.708	11.469	12.992	M	12034	1212526	1.17%	1.160%
2	14.881	13.050	19.995	M	2776663	103342554	100.00%	98.840%

Sum of corrected areas: 104555080

F1C5130.D ET0909R.M Mon Sep 09 12:53:04 2002 HPDOS9

~~1130~~ 1128 9/9/02

File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5130.D
Operator :
Acquired : 9-7-02 10:31:24 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1243-38E
Misc Info :
Vial Number: 35



1130

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5132.D Vial: 36
Acq On : 9-7-02 11:14:01 PM Operator:
Sample : A1243-39E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:53 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.88	27814830	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.46	15466830	25.493	ng	
Spiked Amount	50.000		Recovery =	50.99%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

9/9/02

001131

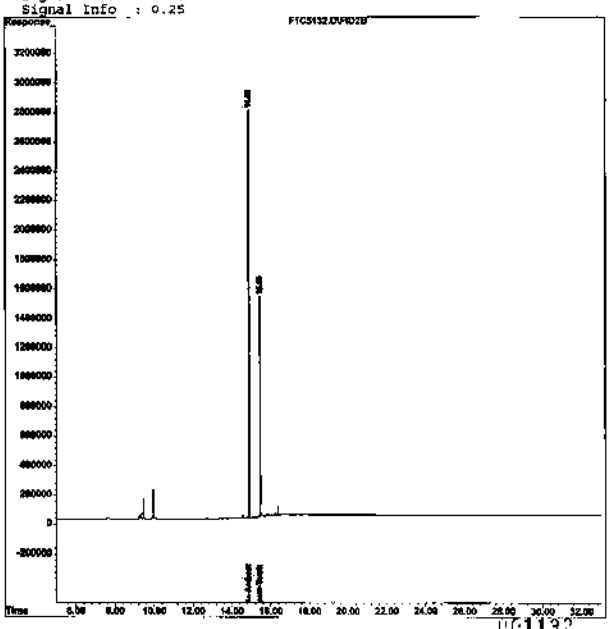
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5132.D ET0909R.M Mon Sep 09 12:54:10 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5132.D Vial: 36
Acq On : 9-7-02 11:14:01 PM Operator:
Sample : A1243-39E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:53 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5132.D ET0909R.M Mon Sep 09 12:54:17 2002 HPDOS9 Page 2

001132

Area Percent Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5132.D Vial: 36
Acq On : 9-7-02 11:14:01 PM Operator:
Sample : A1243-39E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C5132.D\FID2B

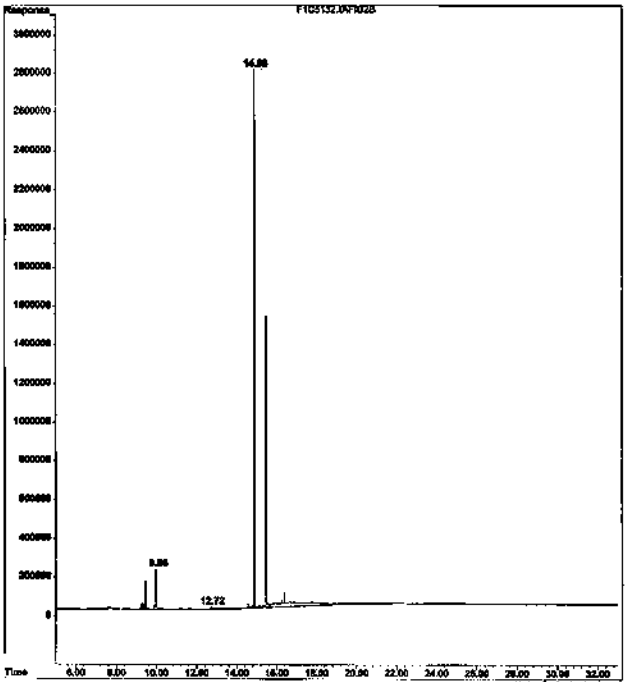
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	9.963	9.132	10.434	M	205628	9517346	12.19%	10.543%
2	12.723	12.635	14.501	M	11798	2658148	3.40%	2.945%
3	14.881	14.558	19.662	M2	775846	78095756	100.00%	86.512%

Sum of corrected areas: 90271250

F1C5132.D ET0909R.M Mon Sep 09 12:54:49 2002 HPDOS9

001133

File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5132.D
Operator :
Acquired : 9-7-02 11:14:01 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1243-39E
Misc Info :
Vial Number: 36



1134

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5134.D Vial: 37
Acq On : 9-7-02 11:55:37 PM Operator:
Sample : A1243-40E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:55 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.88	27125626	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.46	23098509	39.040	ng	
Spiked Amount	50.000		Recovery =	78.08%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	*HEXADECANE C 16*	*0.00*	*0*	*N.D.*	*ng*	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	
15)	TRIACONTANE C30	0.00	0	N.D.	ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

BMF 9/9/02

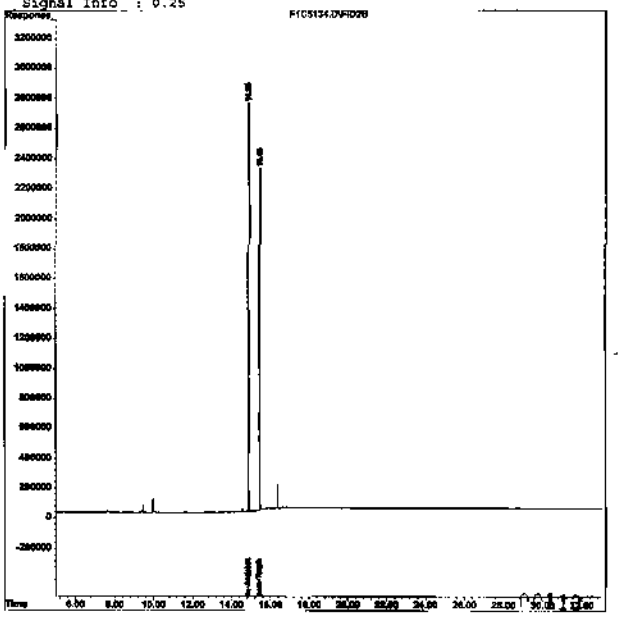
(d)=RT Delta > 1/2 Window (m)=manual int.
F1C5134.D ET0909R.M Mon Sep 09 12:55:59 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5134.D Vial: 37
Acq On : 9-7-02 11:55:37 PM Operator:
Sample : A1243-40E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:55 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5134.D ET0909R.M Mon Sep 09 12:56:06 2002 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5134.D Vial: 37
Acq On : 9-7-02 11:55:37 PM Operator:
Sample : A1243-40E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

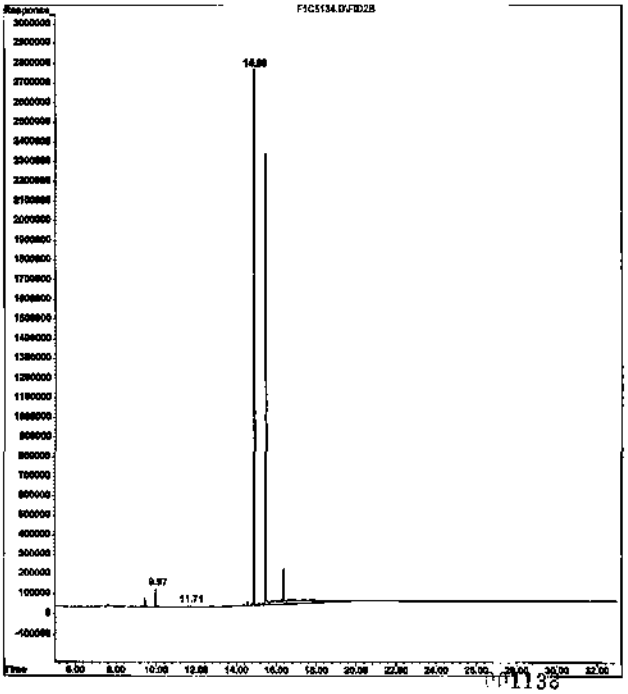
Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C5134.D\FID2B

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	9.967	9.134	10.490	M	97676	5388550	6.14%	5.722%
2	11.709	11.489	12.920	M	10771	1047890	1.19%	1.113%
3	14.881	13.070	19.851	M2	727716	87741506	100.00%	93.166%
			Sum of corrected areas:			94177946		

F1C5134.D ET0909R.M Mon Sep 09 12:56:47 2002 HPDOS9

File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5134.D
Operator :
Acquired : 9-7-02 11:55:37 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1243-40E
Misc Info :
Vial Number: 37



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5136.D Vial: 38
Acq On : 9-7-02 12:37:29 PM Operator:
Sample : A1243-41E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:57 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.88	27422888	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.46	23454559	39.212	ng	
Spiked Amount	50.000		Recovery =	78.42%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	
15)	TRIACONTANE C30	0.00	0	N.D.	ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

BMF 9/9/02

001139

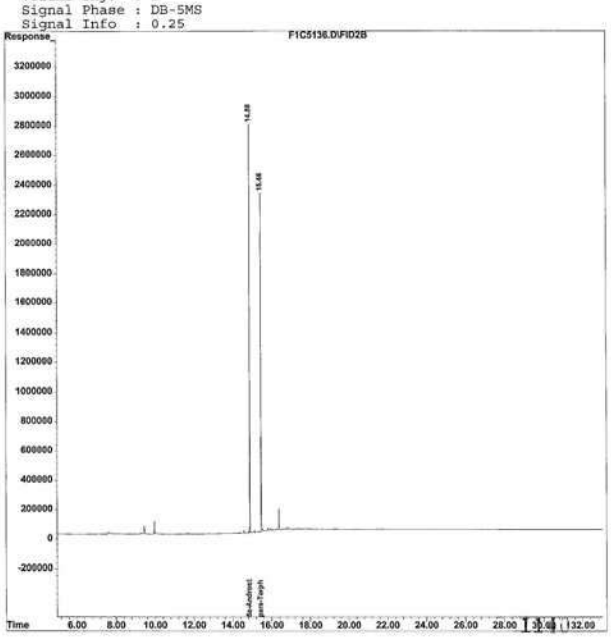
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5136.D ET0909R.M Mon Sep 09 12:57:57 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5136.D Vial: 38
Acq On : 9-7-02 12:37:29 PM Operator:
Sample : A1243-41E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:57 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5136.D ET0909R.M Mon Sep 09 12:58:04 2002 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5136.D Vial: 38
Acq On : 9-7-02 12:37:29 PM Operator:
Sample : A1243-41E Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C5136.D\FID2B

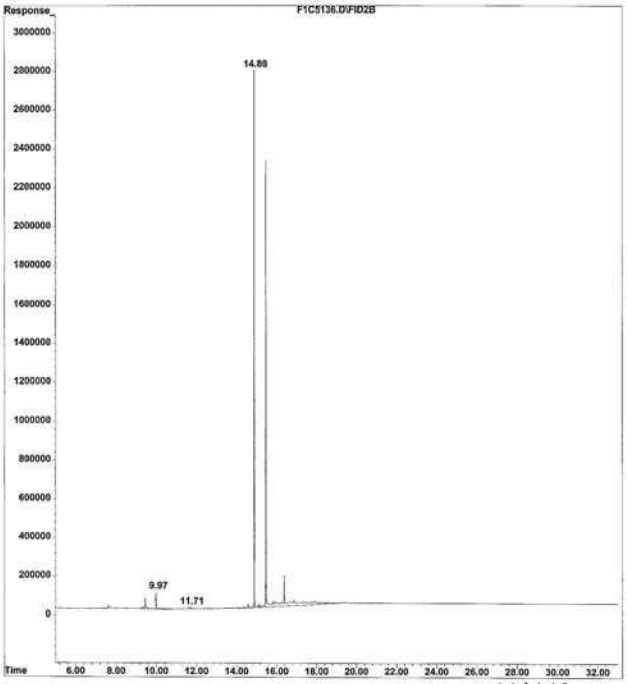
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	9.966	9.170	10.770	M	87449	5151349	6.26%	5.807%
2	11.709	11.567	13.925	M	9541	1335806	1.62%	1.506%
3	14.881	14.066	19.155	M2	767922	82229250	100.00%	92.688%

Sum of corrected areas: 88716406

F1C5136.D ET0909R.M Mon Sep 09 12:58:45 2002 HPDOS9

001141

File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5136.D
Operator :
Acquired : 9-7-02 12:37:29 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1243-41E
Misc Info :
Vial Number: 38



001142

rear column **Response Factors ETPH---09/09/02**

Conc. (ug/ml)	Level1A 5	Level 1 25	Level 2 50	Level 3 100	Level 4 200	Level 5 400
5a-Androstane	25563051	28329528	28560031	29289083	29719908	31290386
para-Terphenyl	2603070	15153647	31842630	63981147	134840592	277787178
Nonane C9	2352045	14777168	30874445	61822995	133727950	271580803
Decane C10	2630621	15249335	31456406	62654210	134920120	273956929
Dodecane C12	2719172	15345328	31592843	63257665	136373059	276821853
Tetradecane C14	2945168	16063852	32835555	64926716	138829830	281068448
Hexadecane C16	3102284	16220260	32861519	64671052	137384976	278822574
Octadecane C18	3160351	16398182	33110144	65056420	137654322	280210668
Nonadecane C19	3235332	16550647	33364712	65577031	138343382	282127227
Eicosane C20	3239072	16525991	33324703	65498287	137907858	281629249
Docosane C22	3385399	16997651	34137714	67054178	140322035	286851532
Tetracosane C24	3263007	16743798	33643677	66678277	139127565	288490389
Hexacosane C26	3327329	17111063	34671512	68250068	142012987	291759184
Octacosane C28	3278843	16948542	34478533	67908486	141384019	291209483
Triacontane C30	3166210	16533097	33778598	66731155	139472302	286753428
Hexatriacontane C36	2303152	11804775	24713224	49585338	107700040	233984579
RRF of C9-C36	0.9413	0.9007	0.9105	0.8775	0.9157	0.8913

Mean= 0.9061 Std.Dev= 0.0220 RSD(%)= 2.4245

Response Factor Report F1

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002

Calibration Files
CON1 =F1C5086.D CON2 =F1C5088.D CON3 =F1C5090.D
CON4 =F1C5092.D CON5 =F1C5094.D CONA =F1C5084.D

	Compound	CON1	CON2	CON3	CON4	CON5	CONA	Avg		%RSD
1) I	5a-Androstane	ISTD								
2) S	para-Terphenyl	0.856	0.895	0.874	0.908	0.888	0.815	0.872	0	3.84
3)	Nonane C9	0.835	0.865	0.844	0.900	0.868	0.736	0.841	0	6.69
4)	DECANE C10	0.861	0.881	0.854	0.908	0.876	0.823	0.867	0	3.28
5)	DODECANE C12	0.867	0.885	0.864	0.918	0.885	0.851	0.878	0	2.66
6)	TETRADECANE C14	0.907	0.920	0.887	0.933	0.898	0.922	0.911	0	1.86
7)	HEXADECANE C 16	0.916	0.920	0.883	0.925	0.891	0.971	0.918	0	3.37
8)	OCTADECANE C18	0.926	0.927	0.888	0.926	0.896	0.989	0.925	0	3.84
9)	NONADECANE C19	0.935	0.935	0.896	0.931	0.902	1.013	0.935	0	4.46
10)	EICOSANE C20	0.933	0.933	0.895	0.928	0.900	1.014	0.934	0	4.57
11)	DOCOSANE C22	0.960	0.956	0.916	0.944	0.917	1.059	0.959	0	5.51
12)	TETRACOSANE C24	0.946	0.948	0.911	0.936	0.912	1.021	0.946	0	4.26
13)	HEXACOSANE C26	0.966	0.971	0.932	0.956	0.932	1.041	0.967	0	4.16
14)	OCTACOSANE C28	0.957	0.966	0.927	0.951	0.931	1.026	0.960	0	3.73
15)	TRIACONTANE C30	0.934	0.946	0.911	0.939	0.923	0.991	0.941	0	2.92
16)	HEXATRIACONTANE C36	0.667	0.692	0.677	0.725	0.748	0.721	0.705	0	4.43

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5084.D Vial: 1
Acq On : 9-6-02 18:22:35 PM Operator:
Sample : ETPH L1A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:19 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.88	25563051	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.46	2603070	4.156 ng
Spiked Amount	50.000	Recovery	=	8.31%
	Target Compounds			
3)	Nonane C9	8.22	2352045	4.469 ng
4)	DECANE C10	9.18	2630621	4.872 ng
5)	DODECANE C12	10.60	2719172	4.828 ng
6)	TETRADECANE C14	11.75	2945168	5.103 ng
7)	HEXADECANE C 16	12.74	3102284	5.196 ng
8)	OCTADECANE C18	13.63	3160351	5.156 ng
9)	NONADECANE C19	14.05	3235332	5.287 ng
10)	EICOSANE C20	14.44	3239072	5.245 ng
11)	DOCOSANE C22	15.18	3385399	5.365 ng
12)	TETRACOSANE C24	15.86	3263007	5.206 ng
13)	HEXACOSANE C26	16.53	3327329	5.203 ng
14)	OCTACOSANE C28	17.31	3278843	5.120 ng
15)	TRIACONTANE C30	18.31	3166210	4.936 ng
16)	HEXATRIACONTANE C36	24.21	2303152	3.738 ng

m

BMF 9/9/02

BMF 9/9/02

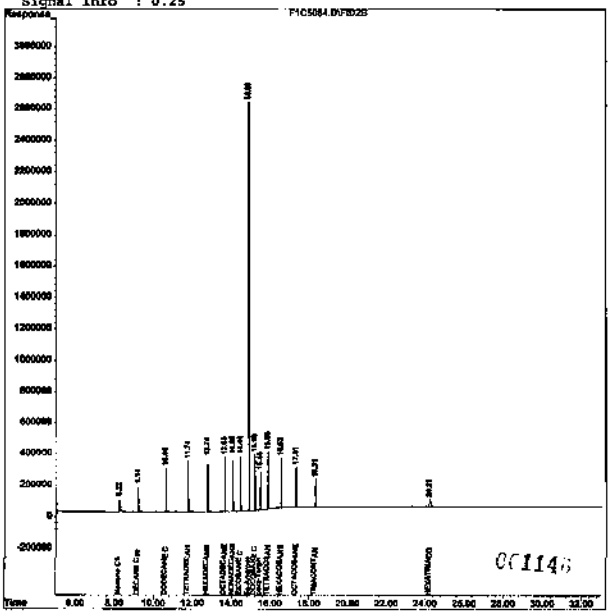
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5084.D ET0717R.M Mon Sep 09 11:19:54 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5084.D Vial: 1
Acq On : 9-6-02 18:22:35 PM Operator:
Sample : ETPH L1A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:19 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

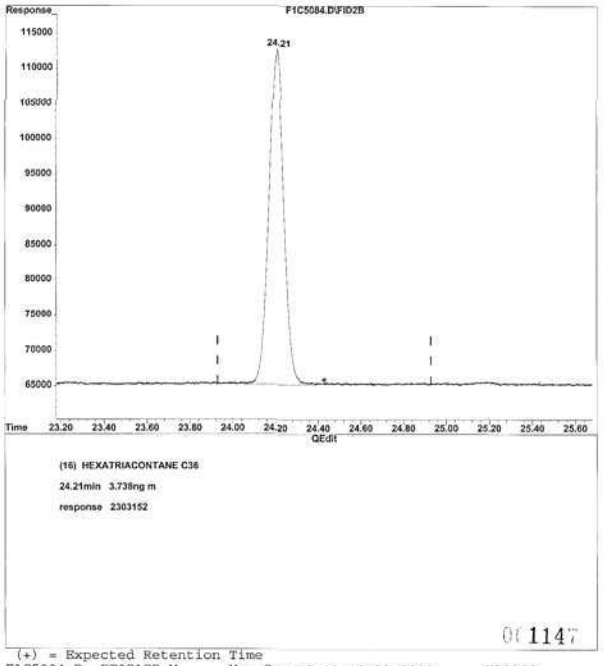


F1C5084.D ET0717R.M Mon Sep 09 11:20:04 2002 HPDOS9 Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5084.D Vial: 1
Acq On : 9-6-02 18:22:35 PM Operator:
Sample : ETPH L1A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:18 19102 Quant Results File: ET0717R.RES

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Multiple Level Calibration



(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5086.D Vial: 2
Acq On : 9-6-02 19:04:39 PM Operator:
Sample : ETPH L1 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:20 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5a-Androstane	14.89	28329528	40.000 ng
System Monitoring Compounds			
2) S para-Terphenyl	15.46	15153647	21.833 ng
Spiked Amount 50.000		Recovery =	43.67%
Target Compounds			
3) Nonane C9	8.22	14777168	25.334 ng
4) DECANE C10	9.18	15249835	25.484 ng
5) DODECANE C12	10.60	15345328	24.584 ng
6) TETRADECANE C14	11.75	16063852	25.114 ng
7) HEXADECANE C 16	12.74	16220260	24.515 ng
8) OCTADECANE C18	13.64	16398182	24.138 ng
9) NONADECANE C19	14.05	16550647	24.404 ng
10) EICOSANE C20	14.44	16525991	24.148 ng
11) DOCOSANE C22	15.18	16997651	24.304 ng
12) TETRACOSANE C24	15.86	16743798	24.104 ng
13) HEXACOSANE C26	16.54	17111063	24.146 ng
14) OCTACOSANE C28	17.32	16948542	23.881 ng
15) TRIACONTANE C30	18.32	16533097	23.258 ng
16) HEXATRIACONTANE C36	24.22	11804775	17.290 ng

BMF 9/9/02

~~0C 1149~~ 0C 1148

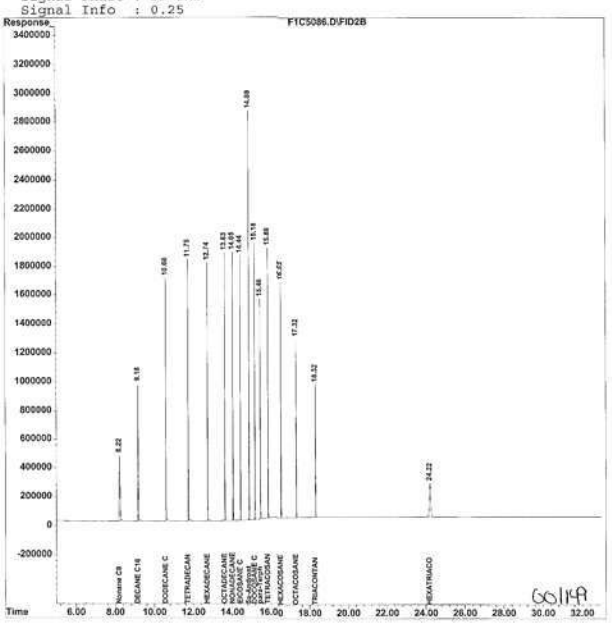
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5086.D Vial: 2
Acq On : 9-6-02 19:04:39 PM Operator:
Sample : ETPH L1 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:20 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5088.D Vial: 3
Acq On : 9-6-02 19:46:55 PM Operator:
Sample : ETPH L2 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:21 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5a-Androstane	14.89	28560031	40.000 ng
System Monitoring Compounds			
2) S para-Terphenyl	15.46	31942530	45.651 ng
Spiked Amount 50.000		Recovery =	91.30%
Target Compounds			
3) Nonane C9	8.22	30874845	52.503 ng
4) DECANE C10	9.18	31456406	52.144 ng
5) DODECANE C12	10.60	31592843	50.204 ng
6) TETRADECANE C14	11.75	32835555	50.920 ng
7) HEXADECANE C 16	12.74	32861519	49.265 ng
8) OCTADECANE C18	13.64	33110144	48.345 ng
9) NONADECANE C19	14.05	33364712	48.800 ng
10) EICOSANE C20	14.45	33324703	48.302 ng
11) DOCOSANE C22	15.19	34137714	48.419 ng
12) TETRACOSANE C24	15.87	33843677	48.327 ng
13) HEXACOSANE C26	16.54	34671512	48.531 ng
14) OCTACOSANE C28	17.32	34478533	48.189 ng
15) TRIACONTANE C30	18.32	33779598	47.136 ng
16) HEXATRIACONTANE C36	24.23	24713224	35.904 ng

BMF 9/9/02

0C 1150

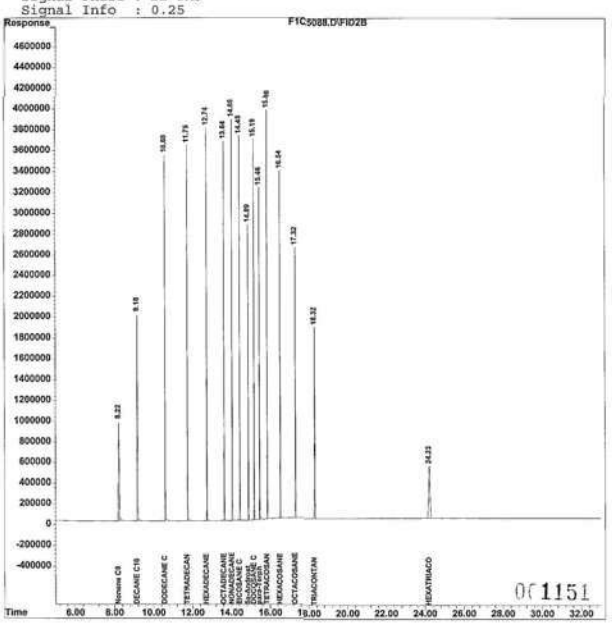
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5088.D Vial: 3
Acq On : 9-6-02 19:46:55 PM Operator:
Sample : ETPH L2 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:21 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



0C1151

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5090.D Vial: 4
Acq On : 9-6-02 20:29:07 PM Operator:
Sample : ETPH L3 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:23 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.89	29289083	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.47	63981147	89.163 ng
Spiked Amount	50.000	Recovery	=	178.33%
	Target Compounds			
3)	Nonane C9	8.22	61822995	102.516 ng
4)	DECANE C10	9.18	62554210	101.112 ng
5)	DODECANE C12	10.60	63257655	98.021 ng
6)	TETRADECANE C14	11.75	64926716	98.178 ng
7)	HEXADECANE C 16	12.75	64671052	94.540 ng
8)	OCTADECANE C18	13.64	65056420	92.627 ng
9)	NONADECANE C19	14.05	65577031	93.527 ng
10)	EICOSANE C20	14.45	65498287	92.573 ng
11)	DOCOSANE C22	15.19	67054178	92.738 ng
12)	TETRACOSANE C24	15.87	66678277	92.843 ng
13)	HEXACOSANE C26	16.54	68250068	93.154 ng
14)	OCTACOSANE C28	17.32	67908486	92.551 ng
15)	TRIACONTANE C30	18.33	66731155	90.799 ng
16)	HEXATRIACONTANE C36	24.24	49585338	70.246 ng

BMF 9/9/02

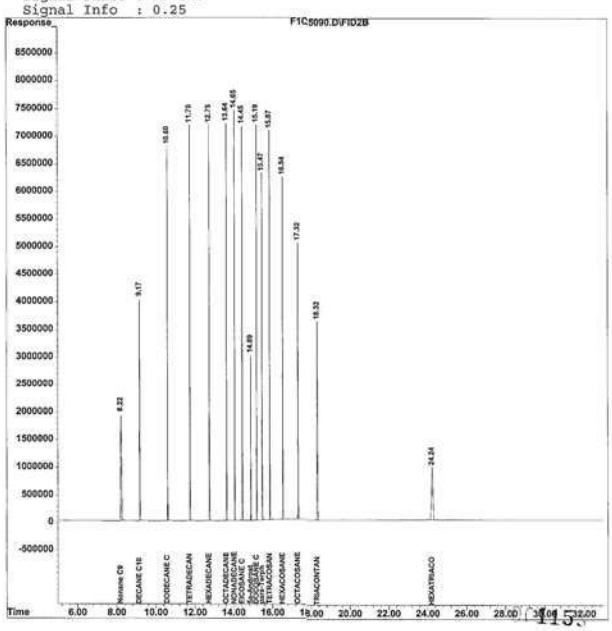
0C1152

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5090.D Vial: 4
Acq On : 9-6-02 20:29:07 PM Operator:
Sample : ETPH L3 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:23 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



1153

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5092.D Vial: 5
Acq On : 9-6-02 21:11:13 PM Operator:
Sample : ETPH L4 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:24 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.88	29719908	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.47	134940592	185.325 ng
Spiked Amount	50.000	Recovery	=	370.65%
	Target Compounds			
3)	Nonane C9	8.22	133727960	218.535 ng
4)	DECANE C10	9.18	134920120	214.922 ng
5)	DODECANE C12	10.61	136373059	208.253 ng
6)	TETRADECANE C14	11.75	138529830	206.589 ng
7)	HEXADECANE C 16	12.75	137384976	197.927 ng
8)	OCTADECANE C18	13.64	137654322	193.151 ng
9)	NONADECANE C19	14.06	138343382	194.447 ng
10)	EICOSANE C20	14.45	137907858	192.089 ng
11)	DOCOSANE C22	15.19	140322935	191.257 ng
12)	TETRACOSANE C24	15.87	139127565	190.913 ng
13)	HEXACOSANE C26	16.55	142012987	191.022 ng
14)	OCTACOSANE C28	17.33	141384019	189.895 ng
15)	TRIACONTANE C30	18.34	139472302	187.024 ng
16)	HEXATRIACONTANE C36	24.28	107700040	150.364 ng

BMF 9/9/02

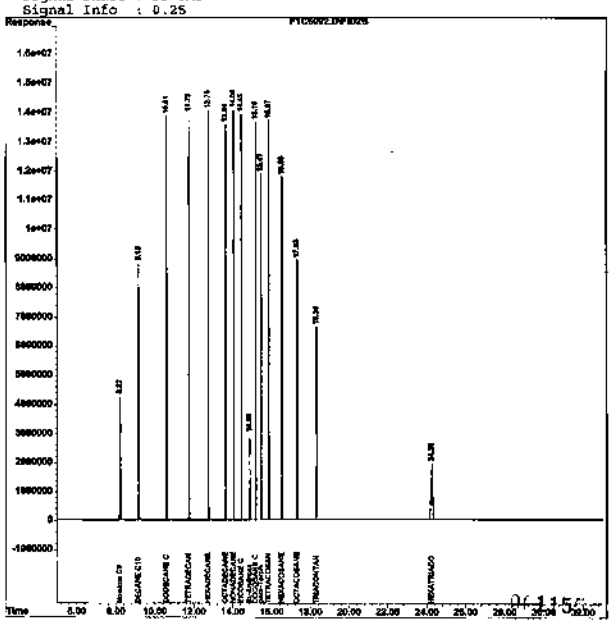
0C1154

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5092.D Vial: 5
Acq On : 9-6-02 21:11:13 PM Operator:
Sample : ETPH L4 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:24 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5094.D Vial: 6
Acq On : 9-6-02 21:53:09 PM Operator:
Sample : ETPH L5 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:25 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.89	31290886	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.48	277787178	362.360 ng
Spiked Amount	50.000		Recovery =	724.72%
	Target Compounds			
3)	Nonane C9	8.22	271580803	421.535 ng
4)	DECANE C10	9.18	273956929	414.498 ng
5)	DODECANE C12	10.61	276821953	401.514 ng
6)	TETRADECANE C14	11.76	281068448	397.832 ng
7)	HEXADECANE C 16	12.76	278922574	381.531 ng
8)	OCTADECANE C18	13.65	280210868	373.446 ng
9)	NONADECANE C19	14.07	282127227	376.638 ng
10)	EICOSANE C20	14.46	281629249	372.588 ng
11)	DOCOSANE C22	15.20	280851532	371.349 ng
12)	TETRACOSANE C24	15.88	285490399	372.092 ng
13)	HEXACOSANE C26	16.56	291759164	372.749 ng
14)	OCTACOSANE C28	17.35	291209461	371.497 ng
15)	TRIACONTANE C30	18.36	288753426	367.767 ng
16)	HEXATRIACONTANE C36	24.34	233984579	310.279 ng

BMF 9/9/02

0C1156

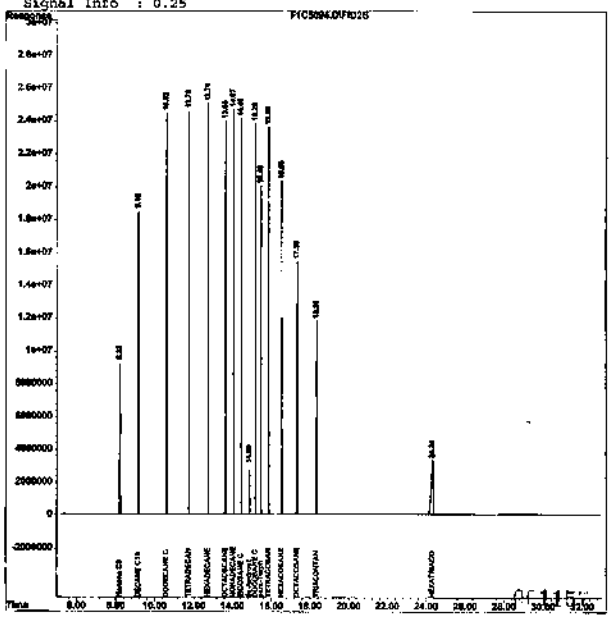
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5094.D ET0717R.M Mon Sep 09 11:26:06 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5094.D Vial: 6
Acq On : 9-6-02 21:53:09 PM Operator:
Sample : ETPH L5 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:25 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5122.D Vial: 95
Acq On : 9-7-02 7:40:37 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:13 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.88	27647006	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.46	30670726	50.860 ng
Spiked Amount	50.000		Recovery =	101.72%
	Target Compounds			
3)	Nonane C9	8.22	31228384	53.706 ng
4)	DECANE C10	9.17	31646719	52.796 ng
5)	DODECANE C12	10.60	31505037	51.907 ng
6)	TETRADECANE C14	11.75	32703321	51.932 ng
7)	HEXADECANE C 16	12.74	32563057	51.337 ng
8)	OCTADECANE C18	13.63	32561756	51.060 ng
9)	NONADECANE C19	14.05	32863616	50.652 ng
10)	EICOSANE C20	14.44	32746323	50.734 ng
11)	DOCOSANE C22	15.18	33428141	50.445 ng
12)	TETRACOSANE C24	15.86	32945745	50.404 ng
13)	HEXACOSANE C26	16.53	33499706	50.147 ng
14)	OCTACOSANE C28	17.32	32961733	49.688 ng
15)	TRIACONTANE C30	18.31	31675670	48.723 ng
16)	HEXATRIACONTANE C36	24.20	20073525	41.200 ng

CCV=
101%
BMF
9/9/02

0C1158

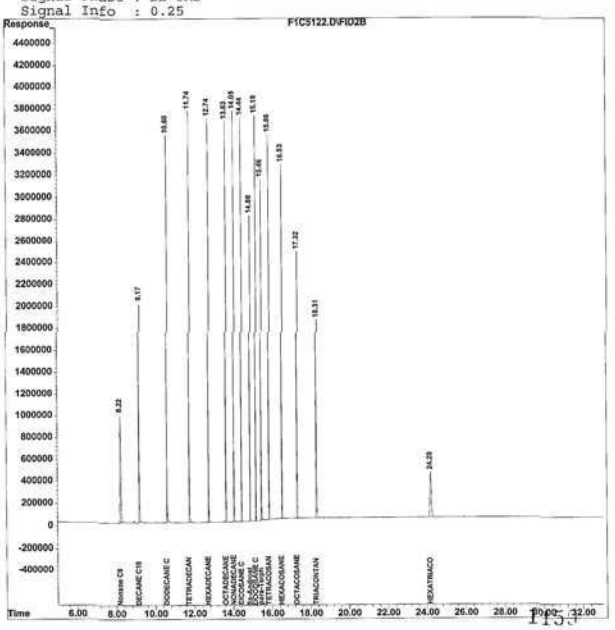
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5122.D ET0909R.M Mon Sep 09 12:15:39 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5122.D Vial: 95
Acq On : 9-7-02 7:40:37 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:13 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5122.D ET0909R.M Mon Sep 09 12:15:50 2002 HPDOS9 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5140.D Vial: 95
Acq On : 9-7-02 14:02:51 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:16 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5a-Androstane	14.88	28864642	40.000 ng
System Monitoring Compounds			
2) S para-Terphenyl	15.46	31318186	49.743 ng
Spiked Amount 50.000	Recovery =		99.49%
Target Compounds			
3) Nonane C9	8.22	31972867	52.667 ng
4) DECANE C10	9.17	32582663	52.065 ng
5) DODECANE C12	10.60	32694831	51.594 ng
6) TETRADECANE C14	11.75	33953121	51.643 ng
7) HEXADECANE C 16	12.74	33964122	51.287 ng
8) OCTADECANE C18	13.63	33982200	50.883 ng
9) NONADECANE C19	14.05	34285556	50.815 ng
10) EICOSANE C20	14.44	34097383	50.598 ng
11) DOCOSANE C22	15.18	34761473	50.244 ng
12) TETRACOSANE C24	15.86	34443013	50.472 ng
13) HEXACOSANE C26	16.53	34722744	49.785 ng
14) OCTACOSANE C28	17.31	33840970	48.861 ng
15) TRIACONTANE C30	18.31	31758263	46.789 ng
16) HEXATRIACONTANE C36	24.20	17615031	34.629 ng

CCV=99%
BMF
9/9/02

0 1160

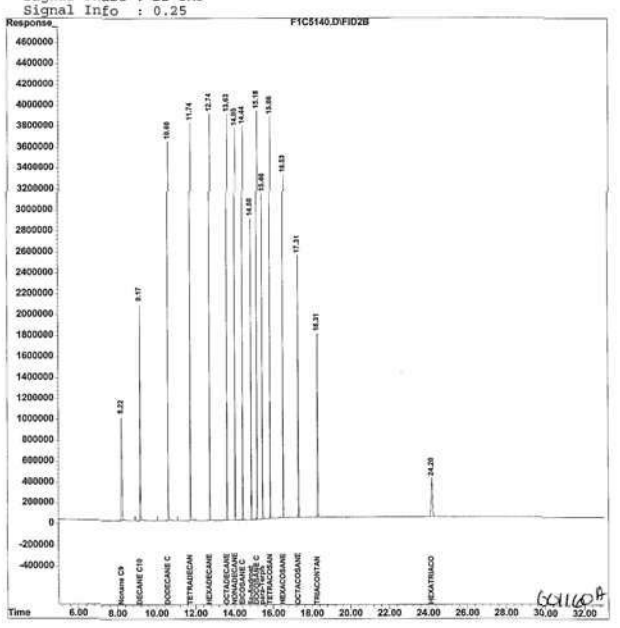
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5140.D ET0909R.M Mon Sep 09 12:16:53 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5140.D Vial: 95
Acq On : 9-7-02 14:02:51 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:16 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5140.D ET0909R.M Mon Sep 09 12:17:04 2002 HPDOS9 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5100.D Vial: 23
Acq On : 9-6-02 23:59:19 PM Operator:
Sample : F0824-BW1 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:21 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

Compound	R.T.	Response	Conc Units	
Internal Standards				
1) I 5a-Androstane	14.88	28213798	40.000 ng	
System Monitoring Compounds				
2) S para-Terphenyl	15.46	13116573	21.314 ng	
Spiked Amount 50.000	Recovery =		42.63%	
Target Compounds				
3) Nonane C9	0.00	0	N.D. ng	
4) DECANE C10	0.00	0	N.D. ng	
5) DODECANE C12	0.00	0	N.D. ng	
6) TETRADECANE C14	0.00	0	N.D. ng	
7) HEXADECANE C 16	0.00	0	N.D. ng	
8) OCTADECANE C18	0.00	0	N.D. ng	
9) NONADECANE C19	0.00	0	N.D. ng	
10) EICOSANE C20	0.00	0	N.D. ng	d
11) DOCOSANE C22	0.00	0	N.D. ng	d
12) TETRACOSANE C24	0.00	0	N.D. ng	d
13) HEXACOSANE C26	0.00	0	N.D. ng	d
14) OCTACOSANE C28	0.00	0	N.D. ng	
15) TRIACONTANE C30	0.00	0	N.D. ng	
16) HEXATRIACONTANE C36	0.00	0	N.D. ng	

BMF
9/9/02

0f 1161

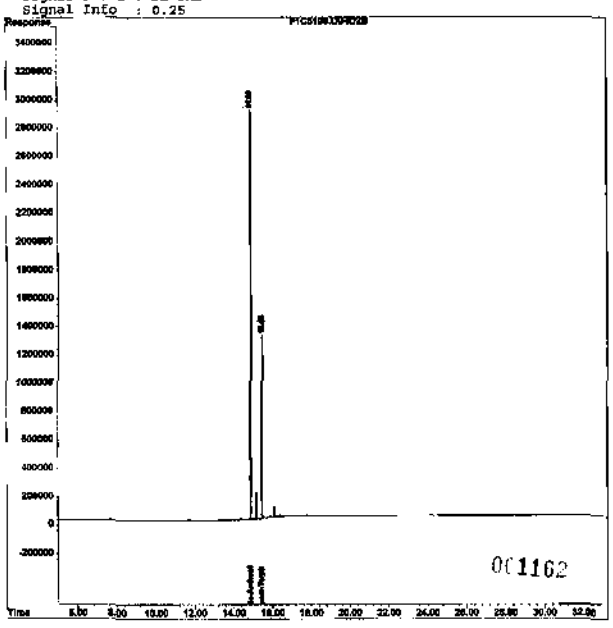
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5100.D ET0909R.M Mon Sep 09 12:21:22 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5100.D Vial: 23
Acq On : 9-6-02 23:59:19 PM Operator:
Sample : F0824-BW1 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:21 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001162

F1C5100.D ET0909R.M Mon Sep 09 12:21:29 2002 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5100.D Vial: 23
Acq On : 9-6-02 23:59:19 PM Operator:
Sample : F0824-BW1 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C5100.D\FID2B

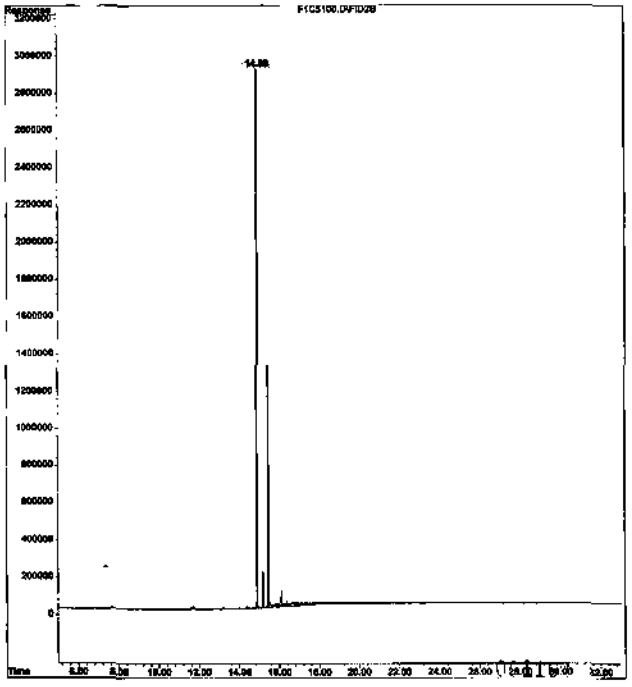
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.884	14.735	18.458	M	2892275	61680820	100.00%	100.000%

Sum of corrected areas: 61680820

F1C5100.D ET0909R.M Mon Sep 09 12:21:46 2002 HPDOS9

001163

File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5100.D
Operator :
Acquired : 9-6-02 23:59:19 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: F0824-BW1
Misc Info :
Vial Number: 23



001164

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5102.D Vial: 24
Acq On : 9-7-02 0:41:25 PM Operator:
Sample : F0824-LW1 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:22 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.88	28409073	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.46	16375311	26.426 ng
Spiked Amount	50.000	Recovery	=	52.85%
	Target Compounds			
3)	Nonane C9	8.22	18121705	30.329 ng
4)	DECANE C10	9.17	22602630	36.696 ng
5)	DODECANE C12	10.60	24970036	40.036 ng
6)	TETRADECANE C14	11.75	26243858	40.557 ng
7)	HEXADECANE C 16	12.74	27162522	41.674 ng
8)	OCTADECANE C18	13.63	27783734	42.269 ng
9)	NONADECANE C19	14.06	28175017	42.428 ng
10)	EICOSANE C20	14.44	29127607	43.917 ng
11)	DOCOSANE C22	15.18	31900723	46.849 ng
12)	TETRACOSANE C24	15.86	29950961	44.593 ng
13)	HEXACOSANE C26	16.54	30385504	44.265 ng
14)	OCTACOSANE C28	17.32	29691579	43.558 ng
15)	TRIACONTANE C30	18.32	28113313	42.083 ng
16)	HEXATRIACONTANE C36	24.21	17121452	34.199 ng

LCS 82%
BMF
9/9/02

001165

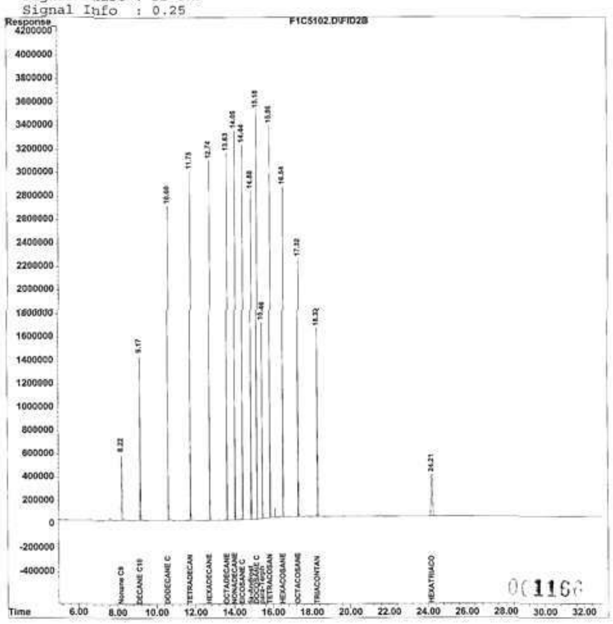
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5102.D ET0909R.M Mon Sep 09 12:22:50 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5102.D Vial: 24
Acq On : 9-7-02 0:41:25 PM Operator:
Sample : F0824-LW1 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:22 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001166

F1C5102.D ET0909R.M Mon Sep 09 12:23:00 2002 HPDOS9 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5104.D Vial: 25
Acq On : 9-7-02 1:23:34 PM Operator:
Sample : F0824-LW1DUP Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:23 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5a-Androstane	14.89	27803771	40.000 ng
System Monitoring Compounds			
2) S para-Terphenyl	15.46	15204087	25.070 ng
Spiked Amount 50.000		Recovery =	50.14%
Target Compounds			
3) Nonane C9	8.22	19650118	33.603 ng
4) DECANE C10	9.18	24152828	40.067 ng
5) DODECANE C12	10.60	26204635	42.930 ng
6) TETRADECANE C14	11.75	27625267	43.621 ng
7) HEXADECANE C 16	12.74	28580016	44.804 ng
8) OCTADECANE C18	13.64	29157601	45.325 ng
9) NONADECANE C19	14.05	29045798	44.691 ng
10) EICOSANE C20	14.45	29222889	45.020 ng
11) DOCOSANE C22	15.18	29849801	44.791 ng
12) TETRACOSANE C24	15.86	29502175	44.881 ng
13) HEXACOSANE C26	16.54	29863660	44.452 ng
14) OCTACOSANE C28	17.32	29140130	43.679 ng
15) TRIACONTANE C30	18.32	27537096	42.118 ng
16) HEXATRIACONTANE C36	24.22	17590244	35.900 ng

LCS= 85%
BMF
9/9/02

001167

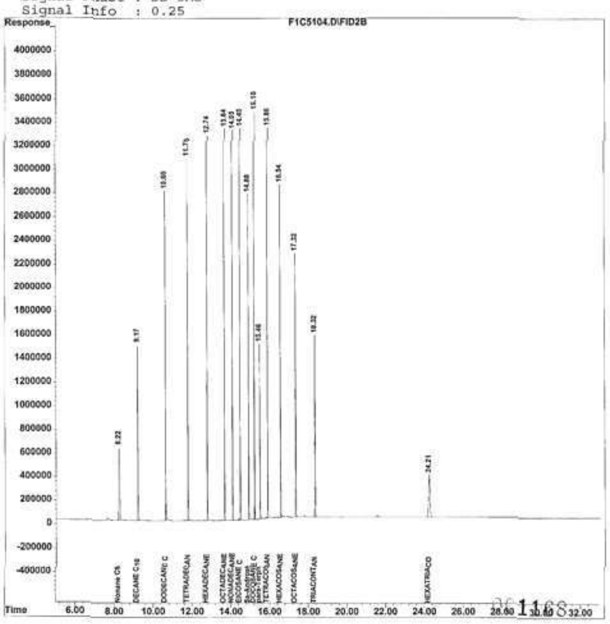
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5104.D ET0909R.M Mon Sep 09 12:24:00 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5104.D Vial: 25
Acq On : 9-7-02 1:23:34 PM Operator:
Sample : F0824-LW1DUP Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 12:23 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001168

F1C5104.D ET0909R.M Mon Sep 09 12:24:10 2002 HPDOS9 Page 2

MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION: SEMIVOLATILES

Date: 8-24-02
Analysis: ETPH
Blank ID: F0824-BW1
LCS ID: F0824 LW1
LCS Dup: F0824 LW1DUP
Project(s): A1243
Time Started: 0700
Time Ended: 0800
Analyst: T3
Spiked By: T3

Project ID: F0824-BW1, F0824 LW1, F0824 LW1DUP, A1243 017, 019, 020, 024, 028, 032, 033, 034, 037, 038, 039, 040, A1243 041

Sample Vol (ml): 1000ml
Final Concentration Date / Analyst: 8-25-02 T3
Final Conc. Volume: 1ml
Date Extract Trans.: 8-25-02

Comments: Sample A1243032 extracted 500ml due to insufficient sample.

Sonicator Tuned: Yes / No
Water Bath Temperature:
Reviewed By: SBL 9/10/02
Logbook Page 000031
Logbook ID 50.0147-2/02

001169

MITKEM CORPORATION: TPH/EPH Run Logbook

Date	Lab ID	Client	Method	Filename	Dilution	yes/no	Analyst	Comments
9/5/02	ETPH CCV		ETPH-B	FIC5044		✓	BMF	
	IBLK			46				
	F0903-BS1			48		✓		
	F0903-LS1			50		✓		
	F0903-LS1 DUP			52		✓		
	MB-3182			54		✓		
	LCS-3182			56		✓		
	LCSD-3182			58		✓		
	A1280-01A			60		✓		
	A1280-02A			62		✓		FV=10mL
	A1280-03A			64		✓		FV=10mL
	A1312-01A			66		ND		
	IBLK			68				
9/5/02	ETPH CCV		ETPH-B	FIC5070		✓	BMF	
	IBLK			72				
	A1312-01A			74	10	✓		
	IBLK			76				
9/6/02	ETPH CCV		ETPH-B	FIC5078		✓	BMF	Recal ICAL
9/6/02	ETPH L1A		ETPH-B	FIC5084		✓		good BMF 9/9/02
	L1			86		✓		
	L2			88		✓		
	L3			90		✓		
	L4			92		✓		
	L5			94		✓	BMF	
9/6/02	ETPH 2S		ETPH-B	FIC5096		✓	BMF	

QAT00146

9PB-12

Reviewed By: SBL 9/10/02

Page: 000055

MITKEM CORPORATION EXTRACT TRANSFER LOGBOOK: SEMIVOLATILE ANALYSIS

QAT00141

Log ID: SSV-12

Reviewed By: SS 9/12/02

Page: 00117053

Date Transferred from Prep Lab	Lab ID	Transferred By	Received By	Storage Location	Comments
8.25.02	A1225-020	TS	BMF	R2A	
8.25.02	F0824 BW1	TS	BMF	R2A	
	F0824 LW1				
	F0824 LW1 Prep				
	A1243 017				
	018				
	020				
	024				
	028				
	032				FV: ½ mL
	033				
	034				
	037				
	038				
	039	↓	↓	↓	
	040		BMF	R2A	
	A1243 041		BMF	R2A	
	96 3044		KLA	P1	
	LCS 3044				
	A1248 001				
	002				
	003				
	004				
	005				
	006				
	007				
	008				
	009				
	010				
	011				
	013				
	014				
	A1248 015				
8.25.02					

MITKEM CORPORATION: TPH/EPH Run Logbook

Date	Lab ID	Client	Method	Filename	Dilution	yes/no	Analyst	Comments
9/6/02	IBLK			FIC5098			BMF	
	F0824-BW1			FIC5100		✓		
	F0824-LW1			02		✓		
	F0824-LW1 DUP			04		✓		
	A1243-17F			06		✓		
	18F			08		✓		
	20F			10		✓		
	24E			12		✓		
	28F			14		✓		
	32A			16		✓		
	A1243-33F			18		✓		
	IBLK			20				
	ETPH CCV			22		✓		
	IBLK			24				
	A1243-34E			26		✓		
	37E			28		✓		
	38E			30		✓		
	39E			32		✓		
	40E			34		✓		
	A1243-41E			36		✓		
	IBLK			38				
9/6/02	ETPH CCV			FIC5140		✓	BMF	

QAT00146

9PB-12

Reviewed By: SBL 9/10/02

Page: 000056

MITKEM CORPORATION: TPH/EPH Run Logbook

Date	Lab ID	Client	Method	Filename	Dilution	yes/no	Analyst	Comments
9/5/02	ETPH CCV		ETPH-B	FIC5044		✓	BMF	
	IBLK			46				
	F0903-BS1			48		✓		
	F0903-LS1			50		✓		
	F0903-LS1 DUP			52		✓		
	MB-3182			54		✓		
	LCS-3182			56		✓		
	LCSD-3182			58		✓		
	A1280-01A			60		✓		
	A1280-02A			62		✓		FV=10mL
	A1280-03A			64		✓		FV=10mL
	A1312-01A			66		ND		
	IBLK			68		✓		
9/5/02	ETPH CCV		ETPH-B	FIC5070		✓	BMF	
	IBLK			72				
	A1312-01A			74	10	✓		
	IBLK			76				
9/6/02	ETPH CCV		ETPH-B	FIC5078		✓	BMF	Recal ICAL
9/6/02	ETPH L1A		ETPH-B	FIC5084		✓		good BMF 9/9/02
	L1			86		✓		
	L2			88		✓		
	L3			90		✓		
	L4			92		✓		
	L5			94		✓	BMF	
9/6/02	ETPH 2S		ETPH-B	FIC5096		✓	BMF	

QAT00146

9PB-12

Reviewed By: SBL 9/10/02

Page: 000055

MITKEM CORPORATION: Sample Receipt Tracking Logbook

Project	Date Received	Client	Storage Location	#'s/ Analyst/ Date In	#'s/ Analyst/ Date Out	#'s/ Analyst/ Date In	#'s/ Analyst/ Date Out	#'s/ Analyst/ Date In	#'s/ Analyst/ Date Out	#'s/ Analyst/ Date In	Dispose After	Date Disposed
A1241	8-20-02	EPA	CFloor VOA	01-07 01-08	1-7 BP 8/22	Empty BP					11-20-02	
A1242	8/20/02	EA	A5: #1-11	KW #1-11 8/20	KW #1-11 8/20						10-20-02	
A1243* (cont)	8-23-02 8-20-02 8-21-02 8-22-02	HRP	VOA M3 EH SUB	01-05, 01-04, 01-04, 02-04	[illegible]	[illegible]	4,11,15,16 BP 8/31	Empty BP	[illegible] T3 8/24	Empty T3	11-20-02	
A1244	8-20-02 8-21-02	Tetra Tech	VOA H2 EH	01-11, 12-16, 02-11, 12, 13, 15, 16, 03-11, 12, 13, 15, 16			2-11 BP 8/31; 12,13,15,16 BP 8/24	Empty BP; Empty BP	[illegible]		11-20-02	
A1245	8-21-02	Southwest	A1	01-04	1-4 GS 8-21-02	1-2 GS 8-21-02					10-21-02	

Logbook ID 30.0187-1/02 Reviewed By: ___ Logbook page 1

001174

MITKEM CORPORATION

* Wet Chemistry *

001175

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: MW-19M
Lab ID: A1243-02

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/19/02 12:00
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	4200		500	mg/L	100	08/29/02 13:41
PH VALUE		SM4500_H+				
pH	6.9		1.0	pH Units	1	08/21/02 14:00

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Limit - Reporting Limit

001176

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: MW-19D
Lab ID: A1243-03

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/19/02 12:00
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	5800		500	mg/L	100	08/29/02 13:41
PH VALUE		SM4500_H+				
pH	6.8		1.0	pH Units	1	08/21/02 14:00

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Limit - Reporting Limit

001177

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: MW-34
Lab ID: A1243-04
Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/19/02 12:00
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		**SM4500_Cl_W**				
Chloride	2	J	5.0	mg/L	1	08/29/02 13:41
PH VALUE		**SM4500_H+**				
pH	7.0		1.0	pH Units	1	08/21/02 14:00

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; B - Analyte detected in the associated Method Blank; DF - Dilution Factor; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; E - Value above quantitation range; Limit - Reporting Limit

001178

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: MW-15
Lab ID: A1243-06
Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/20/02 12:00
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		**SM4500_Cl_W**				
Chloride	510		50	mg/L	10	08/29/02 13:41
PH VALUE		**SM4500_H+**				
pH	6.9		1.0	pH Units	1	08/23/02 11:15

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; B - Analyte detected in the associated Method Blank; DF - Dilution Factor; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; E - Value above quantitation range; Limit - Reporting Limit

001179

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: MW-8
Lab ID: A1243-07
Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/20/02 12:00
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		**SM4500_Cl_W**				
Chloride	550		50	mg/L	10	08/29/02 13:41
PH VALUE		**SM4500_H+**				
pH	6.0		1.0	pH Units	1	08/23/02 11:15

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; B - Analyte detected in the associated Method Blank; DF - Dilution Factor; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; E - Value above quantitation range; Limit - Reporting Limit

001180

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: MW-7
Lab ID: A1243-08
Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/20/02 12:00
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		**SM4500_Cl_W**				
Chloride	590		50	mg/L	10	08/29/02 13:41
PH VALUE		**SM4500_H+**				
pH	6.1		1.0	pH Units	1	08/23/02 11:15

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; B - Analyte detected in the associated Method Blank; DF - Dilution Factor; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; E - Value above quantitation range; Limit - Reporting Limit

001181

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: MW-10
Lab ID: A1243-10

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/20/02 12:00
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	470		50	mg/L	10	08/29/02 13:41
PH VALUE		SM4500_H+				
pH	6.0		1.0	pH Units	1	08/23/02 11:15

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Limit - Reporting Limit

001182

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: MW-35
Lab ID: A1243-11

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/20/02 12:00
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	3	J	5.0	mg/L	1	08/29/02 13:41
PH VALUE		SM4500_H+				
pH	5.3		1.0	pH Units	1	08/23/02 11:15

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Limit - Reporting Limit

001183

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: MW-13
Lab ID: A1243-15

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/20/02 12:00
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	540		50	mg/L	10	08/29/02 13:41
PH VALUE		SM4500_H+				
pH	6.5		1.0	pH Units	1	08/23/02 11:15

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Limit - Reporting Limit

001184

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: MW-26
Lab ID: A1243-16

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/20/02 12:00
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	660		50	mg/L	10	08/29/02 13:41
PH VALUE		SM4500_H+				
pH	6.5		1.0	pH Units	1	08/23/02 11:15

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Limit - Reporting Limit

001185

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Project: Former Howe Furniture Facility HOW-00
Client Sample ID: 13MW11
Collection Date: 08/21/02 1:03
Lab ID: A1243-17
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD			SM4500_Cl_W			
Chloride	980		100	mg/L	20	08/29/02 13:41
PH VALUE			SM4500_H+			
pH	8.3		1.0	pH Units	1	08/23/02 11:15

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Limit - Reporting Limit

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Project: Former Howe Furniture Facility HOW-00
Client Sample ID: 13MW33
Collection Date: 08/21/02 1:03
Lab ID: A1243-18
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD			SM4500_Cl_W			
Chloride	960		100	mg/L	20	08/29/02 13:41
PH VALUE			SM4500_H+			
pH	8.3		1.0	pH Units	1	08/23/02 11:15

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Limit - Reporting Limit

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Project: Former Howe Furniture Facility HOW-00
Client Sample ID: EMW36
Collection Date: 08/21/02 11:13
Lab ID: A1243-20
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD			SM4500_Cl_W			
Chloride	11		5.0	mg/L	1	08/29/02 13:41
PH VALUE			SM4500_H+			
pH	6.9		1.0	pH Units	1	08/23/02 11:15

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Limit - Reporting Limit

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Project: Former Howe Furniture Facility HOW-00
Client Sample ID: 6MW29
Collection Date: 08/21/02 12:42
Lab ID: A1243-24
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD			SM4500_Cl_W			
Chloride	940		100	mg/L	20	08/29/02 13:41
PH VALUE			SM4500_H+			
pH	8.7		1.0	pH Units	1	08/23/02 11:15

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Limit - Reporting Limit

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: 3MW27
Lab ID: A1243-28

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/21/02 13:19
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		**SM4500_CL_W**				
Chloride	3600		500	mg/L	100	08/29/02 13:41
PH VALUE		**SM4500_H+**				
pH	6.5		1.0	pH Units	1	08/23/02 11:15

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Limit - Reporting Limit

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: 12MW17
Lab ID: A1243-33

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/22/02 10:54
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		**SM4500_CL_W**				
Chloride	4800		500	mg/L	100	08/29/02 13:48
PH VALUE		**SM4500_H+**				
pH	6.7		1.0	pH Units	1	08/23/02 15:00

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Limit - Reporting Limit

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: MW14
Lab ID: A1243-34

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/22/02 14:16
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		**SM4500_CL_W**				
Chloride	800		100	mg/L	20	08/29/02 13:48
PH VALUE		**SM4500_H+**				
pH	6.4		1.0	pH Units	1	08/23/02 15:00

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Limit - Reporting Limit

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: MW37
Lab ID: A1243-37

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/22/02 9:32
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		**SM4500_CL_W**				
Chloride	850		500	mg/L	100	08/29/02 13:48
PH VALUE		**SM4500_H+**				
pH	5.9		1.0	pH Units	1	08/23/02 15:00

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Limit - Reporting Limit

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates — **Project:** Former Howe Furniture Facility HOW-00
Client Sample ID: MW10 — **Collection Date:** 08/22/02 11:00
Lab ID: A1243-38 — **Matrix:** AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		**SM4500_CL_W**				
Chloride	190		50	mg/L	10	08/29/02 13:48
PH VALUE		**SM4500_H+**				
pH	6.3		1.0	pH Units	1	08/23/02 15:00

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; B - Analyte detected in the associated Method Blank; DF - Dilution Factor; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; E - Value above quantitation range; Limit - Reporting Limit

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates — **Project:** Former Howe Furniture Facility HOW-00
Client Sample ID: MW16 — **Collection Date:** 08/22/02 11:51
Lab ID: A1243-39 — **Matrix:** AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		**SM4500_CL_W**				
Chloride	860		100	mg/L	20	08/29/02 13:48
PH VALUE		**SM4500_H+**				
pH	6.2		1.0	pH Units	1	08/23/02 15:00

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; B - Analyte detected in the associated Method Blank; DF - Dilution Factor; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; E - Value above quantitation range; Limit - Reporting Limit

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates — **Project:** Former Howe Furniture Facility HOW-00
Client Sample ID: 12MW20 — **Collection Date:** 08/22/02 13:12
Lab ID: A1243-40 — **Matrix:** AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		**SM4500_CL_W**				
Chloride	13000		1000	mg/L	200	08/29/02 13:48
PH VALUE		**SM4500_H+**				
pH	5.9		1.0	pH Units	1	08/23/02 15:00

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; B - Analyte detected in the associated Method Blank; DF - Dilution Factor; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; E - Value above quantitation range; Limit - Reporting Limit

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates — **Project:** Former Howe Furniture Facility HOW-00
Client Sample ID: 12MW25 — **Collection Date:** 08/22/02 13:12
Lab ID: A1243-41 — **Matrix:** AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		**SM4500_CL_W**				
Chloride	10000		2000	mg/L	400	08/29/02 13:48
PH VALUE		**SM4500_H+**				
pH	5.9		1.0	pH Units	1	08/23/02 15:00

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; B - Analyte detected in the associated Method Blank; DF - Dilution Factor; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; E - Value above quantitation range; Limit - Reporting Limit

MITKEM CORPORATION — **pH Determination Logbook** — 1243 6-38

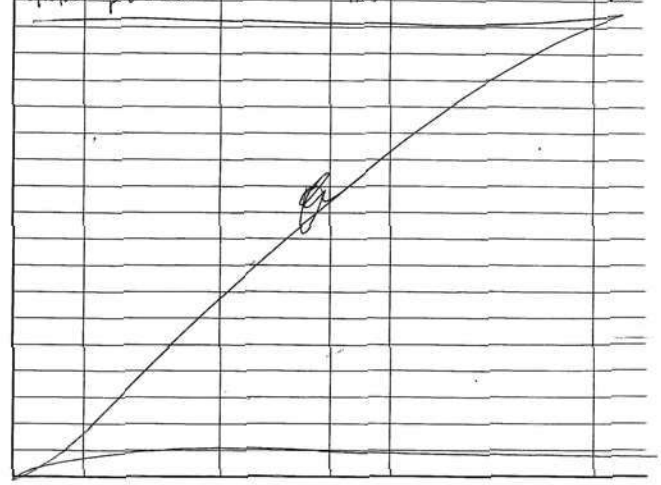
Date	Sample ID	Client ID	pH	Comments	Analys
8/23/a	pH 4.0		4.01	111°F	JW
	10.0		10.02		
	7.0		7.02		
	A1243-03B		6.89		
	-03B		6.83		
	-04B		6.97		
	A1243-04DD		6.98		
	A1250-01C		10.81		
	AD50 -03S		9.68		
	AD50 -03S		8.07		
8/23/a	pH 7.0		7.05		JW
8/23/a	pH 4.00		3.98		KW
	10.00		9.99		
	7.00		6.97	Analyses @ 11:50am	
	A1243-06B		6.52		
	07B		5.98		
	08B		6.10		
	10B		6.03	} 90RPD	
	10BDUP		6.03	}	
	11B		5.33		
	15B		6.52		
	16B		6.51		
	17D		6.31		
	pH 7.00.		4.05		
	18D		6.28		
	20D		5.87		
	24D		6.70		
	25D		6.52		
8/24/a	pH 7.00.		7.05	Analyses @ 11:35 am	JW

Log ID: 810-04 — QAT00135 — PAGE: 1193 — 000080

1243 33-41

MITKEM CORPORATION — **pH Determination Logbook**

Date	Sample ID	Client ID	pH	Comments	Analy
8/23/a	A1243-37C			@ 8/23/a	
8/23/a	pH 7.00		7.01	Analyzed @ 3pm	KW
	A1243-38C Flask		6.70		
	34C		6.38		
	37C		5.92		
	38D		6.28		
	39C		6.23		
	40D		5.93		
	41C		5.94		
8/23/a	pH 7.00.		7.05		KW



Log ID: 810-04 — QAT00135 — PAGE: 1212 — 00081

MITKEM CORPORATION — **Titration Analysis Logbook** — Analysis: Chloride — A1243

Date	Sample ID	Sample volume (ml)	TITRANT: Molarity:	Vol.Titrant Blank	Vol.Titrant Sample	Vol. Diff.Sample-Blank(ml)	Dilution factor	Result	%Recovery	Analyst
8/23/a	38	100		0.6	-	-	-			JW
	3805	100			6.0	5.4		27	108%	
	0837 (08DUP)	100			0.6	0.0		ND		
	0837 (08DUP)	100			6.8	6.2		31	103%	
	0837 (08DUP)	100			2.0	1.4		10		
	A1243-03B	100			5.3	5.3		27		
04B	A1243-	100			5.3	5.3		27		
04B	A1243-	100			10.6	10.6		53	106% 106%	
04B	A1243-	100			5.6	5.6		28		
06B	A1243-	100			3.9	3.9		20		
07B	A1243-	100			6.0	6.0		30		
08B	A1243-	100			5.9	5.3	-	27	108%	
10B	A1250-	100			8.9	8.3	10x	830		
11B	A1243-	100			12.2	11.6	10x	1160	1150	
15B	A1243-	100			0.6	-	-	ND	5800	
16B	A1243-	100			10.7	10.1	2x	20.2		
17D	A1243-	100								JW

Reviewed by _____ — Logbook page 001006 — Logbook ID 100.0157-1/02 — 1251

MITKEM CORPORATION — **Titration Analysis Logbook** — Analysis: Chloride

Date	Sample ID	Sample volume (ml)	TITRANT: Molarity:	Vol.Titrant Blank	Vol.Titrant Sample	Vol. Diff.Sample-Blank(ml)	Dilution factor	Result	%Recovery	Analyst
8/23/a	A1243-	100		0.6	9.6	9.0	10x	450		JW
	03B	100			12.4	11.8	10x	590		
	04B	100			10.0	9.4	10x	470		
	04BDUP	100								
	A1243-	100			5.9	5.3	5x	27	106%	
	06B	100			0.6	0	5x	ND		
	A1243-	100			13.4	12.8	10x	640		
	07B	100			13.8	13.2	10x	660		
	A1243-	100			3.3	1.6	20x	320		
	08B	100			10.4	9.8	20x	980		
	A1243-	100			20.6	19.8	10x	990		
	10B	100			10.2	9.6	20x	960		
	A1243-	100			1.0	0.4	20x	ND		
	11B	100			21	20.4	10x	11		
	A1243-	100			5.9	5.3	10x	270	106%	
	15B	100			10.0	9.4	10x	940		
	A1243-	100								
	16B	100			7.8	7.2	10x	3600		
17D	A1243-	100								JW

Reviewed by _____ — Logbook page 001007 — Logbook ID 100.0157-1/02 — 001202

MITKEM CORPORATION — **Titration Analysis Logbook** — Analysis: Chloride

Date	Sample ID		Sample volume (ml)	TITRANT: Molarity:	Vol.Titrant Blank	Vol.Titrant Sample	Vol. Diff.Sample-Blank(ml)	Dilution factor	Result	%Recovery	Analyst
8/29/02	A1283-	07B	100		0.6	4.0	—	N/A	3.4		JP
	0829 PBW 2		100			2.4	0.0		ND		
	SS5.0		02/100			6.0	5.4		27	108%	
	LCS PBW3		02/100			6.5	5.9		29.5	98%	
	A1283-08B		100			7.9	—		40		
	A1265-	04B	100			3.1			16		
	A1265-	05B	100			2.8			14		
	A1265-	05BD	100			2.9			15		
	A1265-	06B	100			3.4			17		
	A1265-	08B5DC	02/100			8.9	—		45	110%	
8/29/02	SS5.0		02/100		0.6	5.5	4.9	N/A	25	98%	JP

Logbook ID 100.0157-1/02

Reviewed by _____ Logbook page 000010

MITKEM CORPORATION — **Titration Analysis Logbook** — Analysis: chloride

Date	Sample ID		Sample volume (ml)	TITRANT: Molarity:	Vol.Titrant Blank	Vol.Titrant Sample	Vol. Diff.Sample-Blank(ml)	Dilution factor	Result	%Recovery	Analyst
8/29/02	0829 PBW 2		100		0.6	0.6	0.0	N/A	ND		JP
	LCS		2.5/100			6.7	6.1	N/A	31	102%	
	A1243-	33C	5/100			0.6 + R2.5W		20x			
		33L	1/100			10.1	9.5	100x	950		
		34C	1/100			2.4	1.8	100x	900		
		34L	5/100			8.6	8.0	20x	800 ✓		
	A1243-	37C	10/100			0.6 + R2.5W (10x)		10x			
	SS5.0		2.5/100			5.8	5.2	N/A	26	104%	
	A1243-	37C	5/100			0.6 + R2.5W		20x			
		37L	1/100			23 **	1.7	100x	850		
		38C	5/100			2.2	1.6	20x	160		
		38L	10/100			4.4	3.8	10x	190 ✓		
		39C	10/100			16.8	16.2	10x	810		
		39L	5/100			8.6	8.0	20x	850 ✓		
		40C	5/100			0.6 + R2.5W		20x			
		40L	1/100			0.6 + R2.5W		100x			
		41C	05/100			12.5	12.9	200x	12,900		
	A1243-	41L	1/100			0.6 + R2.5W		100x			
8/29/02	SS5.0		02/100		0.6	5.4	4.8	N/A	24	96	JP

Logbook ID 100.0157-1/02

Reviewed by _____ Logbook page 000008

* Wet Chemistry *
Fluoride + Sp. Conductance

MITKEM CORPORATION

MITKEM CORPORATION — **Titration Analysis Logbook** — Analysis: chloride

Date	Sample ID		Sample volume (ml)	TITRANT: Molarity:	Vol.Titrant Blank	Vol.Titrant Sample	Vol. Diff.Sample-Blank(ml)	Dilution factor	Result	%Recovery	Analyst
8/29/02	A1248-	41C	025/100		0.6	0.9	6.3	400x	12,600		JP
	A1274-	01C	10/100 +			5.8	5.2	10x	260		
	A1274-	02C	10/100 +			0.8	0.2	10x	10 ND		
	A1274-	02C	100			3.2	—	N/A	16 ✓		
	A1270-	05B	100			2.2			11		
		04B	100			4.5			23		
		05B*	100			6.4	—	N/A	32		
		05B	20/100			1.4	0.8	5x	20 ✓		
		06B*	100			6.4	—	N/A	32		
	A1270-	06B	20/100			1.6	1.0	5x	25 ✓		
	SS5.0		2.5ml/100			5.6	5.0	N/A	25	100%	
	A1270-	07B	100			2.0	—		10		
		07B2D	100			2.0			10		
		08,5C	02/100			7.6 +6 blanks			33	132%	
	A1270-	08C	100			7.0			35		
	A1283-	03B	100			2.6			13		
		4-4B	100			4.2			21		
		05B	100			4.4			22		
8/29/02	A1283	06B	100		0.6	7.3	—	N/A	37		JP

* A1270-05B TUBING DK GREEN + CLEAR PAIR II
+ BLANKS ON 10 SAMPLE CURVE

Logbook ID 100.0157-1/02

Reviewed by _____ Logbook page 000009

MITKEM CORPORATION

Analysis Report: Specific Conductance

Client: HRP Associates
Matrix: Aqueous

Units: uMHOS/cm
Analysis Method: EPA 120.1
Analysis Date: 8/23/02

Lab ID	Client ID	Result
A1243-02C	MW-19M	15,000
A1243-03C	MW-19D	16,000
A1243-04C	MW-34	6.1
Reporting Limit		1.0

Subcontracted-RIAL
A1243

MITKEM CORPORATION

Analysis Report: Specific Conductance

Client: HRP Associates
Matrix: Aqueous

Analysis Method: EPA 120.1
Units in: uMHOS/CM
Analysis Date: 8/23/02

Lab ID	Client ID	Result
A1243-06A	MW-15	2,400
A1243-07A	MW-8	1,800
A1243-08A	MW-7	2,400
A1243-10A	MW-30	1,900
A1243-11A	MW-35	4.0
A1243-15A	MW-13	3,200
A1243-16A	MW-26	3,200
A1243-17B	13MW11	3,600
A1243-18B	13MW33	3,400
A1243-20B	EMW36	4.4
A1243-24B	6MW29	4,800
A1243-28B	3MW27	12,000
Reporting Limit:		1.0

Subcontracted-RIAL
A1243

MITKEM CORPORATION

Analysis Report: Specific Conductance

Client: HRP Associates
Matrix: Aqueous

Analysis Method: EPA 120.1
Units in: uMHOS/CM
Analysis Date: 8/27/02

Lab ID	Client ID	Result
A1243-33B	12MW17	12,000
A1243-34B	MW14	2,900
A1243-37B	MW37	2.9
A1243-38B	MW19	990
A1243-39B	MW16	2,600
A1243-40B	12MW20	28,000
A1243-41B	12MW25	28,000
Reporting Limit:		1.0

Subcontracted-RIAL
A1243

MITKEM CORPORATION

Analysis Report: Fluoride

Client: HRP Associates
Matrix: Aqueous

Units: mg/L
Analysis Method: EPA 340.1
Analysis Date: 8/27/02

Lab ID	Client ID	Result
A1243-02C	MW-19M	3.1
A1243-03C	MW-19D	3.3
A1243-04C	MW-34	1.4
Reporting Limit		0.06

Subcontracted-RIAL
A1243

MITKEM CORPORATION

Analysis Report: Fluoride

Client: HRP Associates
Matrix: Aqueous

Analysis Method: EPA 340.1
Units in: mg/L
Analysis Date: 8/28/02

Lab ID	Client ID	Result
A1243-06A	MW-15	0.82
A1243-07A	MW-6	0.24
A1243-08A	MW-7	0.22
A1243-10A	MW-30	0.45
A1243-11A	MW-35	0.07
A1243-15A	MW-13	0.21
A1243-16A	MW-26	0.24
A1243-17B	13MW11	0.10
A1243-18B	13MW33	0.20
A1243-20B	EMW36	ND
A1243-24B	6MW29	2.3
A1243-28B	3MW27	0.32

Reporting Limit: 0.06

ND = Not Detected

001211

Subcontracted-RIAL
A1243

MITKEM CORPORATION

Analysis Report: Fluoride

Client: HRP Associates
Matrix: Aqueous

Analysis Method: EPA 340.1
Units in: mg/L
Analysis Date: 9/30/02

Lab ID	Client ID	Result
A1243-33B	12MW17	0.68
A1243-34B	MW14	0.28
A1243-37B	MW37	ND
A1243-38B	MW10	0.08
A1243-39B	MW16	0.43
A1243-40B	12MW20	1.1
A1243-41B	12MW25	0.98

Reporting Limit: 0.06

ND = Not Detected

001212

Subcontracted-RIAL
A1243

R.I. Analytical
Specialists in Environmental Services

CERTIFICATE OF ANALYSIS

Mitkem Corporation
Attn: Data Reporting
175 Metro Center Blvd.
Warwick, RI 02886-1755

Date Received: 8/21/02
Date Reported: 8/27/02
P.O. #: 172
Work Order #: 0208-10835

DESCRIPTION: PROJECT# A1243 (THREE AQUEOUS SAMPLES)

Subject sample(s) has/have been analyzed by our laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies. The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844, NY-11726

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:

Paul Perrotti
Data Reporting Manager

enc: Chain of Custody

001213

41 Illinois Avenue, Warwick, RI 02888
Tel: (401) 737-8300 Fax: (401) 738-1970

131 Coolidge Street, Bldg 2, Hudson, MA 01749
Tel: (978) 568-0041 Fax: (978) 568-0078

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Mitkem Corporation
Date Received: 8/21/02
Work Order #: 0208-10835

Approved by:
R.I. Analytical

Sample #: 001
SAMPLE DESCRIPTION: A1243-02C 08/19/02 @1200

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
SPECIFIC CONDUCTANCE	14000	1.0	uMHOS/CM	EPA 120.1	8/23/02 16:45	KLL
FLUORIDE	3.1	0.06	mg/l	EPA 340.1	8/27/02 9:40	FI

Sample #: 002
SAMPLE DESCRIPTION: A1243-03C 08/19/02 @1200

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
SPECIFIC CONDUCTANCE	16000	1.0	uMHOS/CM	EPA 120.1	8/23/02 16:45	KLL
FLUORIDE	3.3	0.06	mg/l	EPA 340.1	8/27/02 9:40	FI

Sample #: 003
SAMPLE DESCRIPTION: A1243-04C 08/19/02 @1200

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
SPECIFIC CONDUCTANCE	6.1	1.0	uMHOS/CM	EPA 120.1	8/23/02 16:45	KLL
FLUORIDE	1.4	0.06	mg/l	EPA 340.1	8/27/02 9:40	FI

001214

R. I. Analytical
41 Illinois Ave.
Warwick, RI 02888
Tele: 401-737-8500

Page 215
Date 8/29/02
Time 14:45
Analyst (PJ)

Specific Conductance (Method 120.1)

Sample ID	Standard Lot #	Lot Exp. Date	Temperature (Degrees C)	Conductivity Reading umhos/cm	Conductance mS/cm**	QC	Ck.Pg. Ref
Standard 1003	A10419	4/10/03	25.0°C	1.01	mS/cm	1010 (101%)	1.023574
Standard 1413			25.0°C	1.41	mS/cm	1410 (100%)	
10835-1	(X10)		25.0°C	1.46	mS/cm	14600	
10835-2	(X10)		25.0°C	1.58	mS/cm	15800	
10835-3			25.0°C	6.06	mS/cm		
10801-1	(X5)		25.0°C	483	mS/cm	2340	
10836-2			25.0°C	180	mS/cm	1800	
10836-3			25.0°C	238	mS/cm	2380	
10836-4			25.0°C	193	mS/cm	1930	
10836-5			25.0°C	3.98	mS/cm		
10826-6	(X10)		25.0°C	323	mS/cm	3230	X = 3205
10826-6 up	(X10)		25.0°C	318	mS/cm	3180	Adj = 1.67%
Ind.Ck.Std*			25.0°C	425	mS/cm		90%
10826-7	(X10)		25.0°C	315	mS/cm	3150	
10803-1			25.0°C	340	mS/cm		
10949-3			25.0°C	440	mS/cm		
10949-4	(X10)		25.0°C	496	mS/cm	(4960)	
Standard 168						1413 on page 216	

Comments: * Ind.CkStd = VHG = 526.3 umhos/cm
** If sample reads on the ms/cm scale - multiply results by 1000.

Resistivity = reciprocal of specific conductance (units = meghom-cm)
= 1 / umhos/cm

8/29/02

R. I. Analytical
41 Illinois Ave.
Warwick, RI 02888
Tele: 401-737-8500

Page 484
Date 8/27/02
Analyst PF
Curve Date 11/25/02
Time 9:40

Std. Lot 1.0 mg/l A9426
Lot 1.0 Exp Date 3/14/03
Std. Lot 0.5 mg/l A9527
Lot 0.5 Exp Date 3/19/03
Std. Lot 10.0 mg/l A9507
Lot 10.0 Exp Date 3/11/03

Fluoride (Method 340.1)

Sample ID	Initial Vol (ML)	Final Vol (ML)	Aliquot Colored (ML)	ABS @570 nm 1" Cell	FL401 Conc. from Curve Results	QC
Blank			25	1.351	<0.06	
Std. 0.8 mg/l			25	1.086	0.733	92%
Std. 1.0 mg/l			25	1.022	0.949	95%
10782-1			25	1.084	1.054	
10730-3	150 (300)	300	5	1.529	(0.487) 4.87	x̄ = 4.8
10835-1	300	300	5	1.121	(0.615) 3.08	
10835-2	300	300	5	1.107	(0.662) 3.31	
10835-3	300	300	12.5	1.093	(0.709) 1.42	
10801-1	300	300	5	1.052	(0.848) 4.24	
10730-3D	150	300	5	1.163	(0.473) 4.73	%RD = 2.9
10782-1 Spk	Well		25	0.853	1.519	116%
Indep. Check Std 0.5 mg/l			25	1.169	0.453	91%

Calculation: Conc(MG/L) = Conc (from Curve) x Fin Vol (ML) x 25 / Initial Vol (ML) x Aliquot colored

Comments:
Std 0.8 = 2.0 * 10.0 / 25 = 0.8mg/l Spk = 1.0 * 10.0 / 25 = 0.40 mg/l
Std 1.0 = 25 * 1.0 / 25 = 1.0 mg/l *Indep. Check Std = 25*0.5 / 25 = 0.5 mg/l

Well = Drinking Water, Undistilled Sample

R.I. Analytical
Specialists in Environmental Services

CERTIFICATE OF ANALYSIS

Mitkem Corporation
Attn: Data Reporting
175 Metro Center Blvd.
Warwick, RI 02886-1755

Date Received: 8/22/02
Date Reported: 8/30/02
P.O. #: 175
Work Order #: 0208-10949

DESCRIPTION: PROJECT# A1243 FIVE AQUEOUS SAMPLES

Subject sample(s) has/have been analyzed by our laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies. The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844, NY-11726

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:

Paul Perrotta
Data Reporting Manager

enc: Chain of Custody

41 Illinois Avenue, Warwick, RI 02888
Tel: (401) 737-8500 Fax: (401) 738-1970
131 Coolidge Street, Bldg 2, Hudson, MA 01749
Tel: (978) 568-0041 Fax: (978) 568-0078

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Mitkem Corporation
Date Received: 8/21/02
Work Order # 0208-10836

Approved by: R.I. Analytical

Sample #: 001
SAMPLE DESCRIPTION: A1243-06A 08/20/02 @1200

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
SPECIFIC CONDUCTANCE	2400	1.0	uMHOS/CM	EPA 120.1	8/23/02 16:45	KLL
FLUORIDE	0.82	0.06	mg/l	EPA 340.1	8/28/02 12:30	FI

Sample #: 002
SAMPLE DESCRIPTION: A1243-07A 08/20/02 @1200

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
SPECIFIC CONDUCTANCE	1800	1.0	uMHOS/CM	EPA 120.1	8/23/02 16:45	KLL
FLUORIDE	0.24	0.06	mg/l	EPA 340.1	8/28/02 12:30	FI

Sample #: 003
SAMPLE DESCRIPTION: A1243-08A 08/20/02 @1200

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
SPECIFIC CONDUCTANCE	2400	1.0	uMHOS/CM	EPA 120.1	8/23/02 16:45	KLL
FLUORIDE	0.22	0.06	mg/l	EPA 340.1	8/28/02 12:30	FI

Sample #: 004
SAMPLE DESCRIPTION: A1243-10A 08/20/02 @1200

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
SPECIFIC CONDUCTANCE	1900	1.0	uMHOS/CM	EPA 120.1	8/23/02 16:45	KLL
FLUORIDE	0.45	0.06	mg/l	EPA 340.1	8/28/02 12:30	FI

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Mitkem Corporation
Date Received: 8/21/02
Work Order # 0208-10836

Approved by: R.I. Analytical

Sample #: 005
SAMPLE DESCRIPTION: A1243-11A 08/20/02 @1200

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
SPECIFIC CONDUCTANCE	4.0	1.0	uMHOS/CM	EPA 120.1	8/23/02 16:45	KLL
FLUORIDE	0.07	0.06	mg/l	EPA 340.1	8/28/02 12:30	FI

Sample #: 006
SAMPLE DESCRIPTION: A1243-15A 08/20/02 @1200

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
SPECIFIC CONDUCTANCE	3200	1.0	uMHOS/CM	EPA 120.1	8/23/02 16:45	KLL
FLUORIDE	0.21	0.06	mg/l	EPA 340.1	8/28/02 17:10	FI

Sample #: 007
SAMPLE DESCRIPTION: A1243-16A 08/20/02 @1200

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
SPECIFIC CONDUCTANCE	3200	1.0	uMHOS/CM	EPA 120.1	8/23/02 16:45	KLL
FLUORIDE	0.24	0.06	mg/l	EPA 340.1	8/28/02 17:10	FI

001220

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Mitkem Corporation
Date Received: 8/22/02
Work Order # 0208-10949

Approved by: R.I. Analytical

Sample #: 001
SAMPLE DESCRIPTION: A1243-17B GRAB 08/21/02 @1303

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
SPECIFIC CONDUCTANCE	3600	1.0	uMHOS/CM	EPA 120.1	8/23/02 16:45	KLL
FLUORIDE	0.10	0.06	mg/l	EPA 340.1	8/30/02 11:30	FI

Sample #: 002
SAMPLE DESCRIPTION: A1243-18B GRAB 08/21/02 @1303

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
SPECIFIC CONDUCTANCE	3400	1.0	uMHOS/CM	EPA 120.1	8/23/02 16:45	KLL
FLUORIDE	0.20	0.06	mg/l	EPA 340.1	8/30/02 11:30	FI

Sample #: 003
SAMPLE DESCRIPTION: A1243-20B GRAB 08/21/02 @1113

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
SPECIFIC CONDUCTANCE	4.4	1.0	uMHOS/CM	EPA 120.1	8/23/02 16:45	KLL
FLUORIDE	<0.06	0.06	mg/l	EPA 340.1	8/30/02 11:30	FI

Sample #: 004
SAMPLE DESCRIPTION: A1243-24B GRAB 08/21/02 @1242

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
SPECIFIC CONDUCTANCE	4800	1.0	uMHOS/CM	EPA 120.1	8/23/02 16:45	KLL
FLUORIDE	2.3	0.06	mg/l	EPA 340.1	8/30/02 11:30	FI

001221

R. I. Analytical
41 Illinois Ave.
Warwick, RI 02888
Tele: 401-737-8500

Page 4/5
Date 8/29/02
Time 14:45
Analyst FI

Specific Conductance (Method 120.1)

Sample ID	Standard Lot #	Lot Exp Date	Temperature (Degrees C)	Conductivity Reading umhos/cm	Scale uS/cm or mS/cm*	QC	Slope Eff
Standard 1413			25.0°C	1.41	mS/cm	1410 (100%)	1.07534
10835-1	(X10)		25.0°C	1.46	mS/cm	14600	
10835-2	(X10)		25.0°C	1.58	mS/cm	15800	
10835-3			25.0°C	6.06	mS/cm		
10836-1	(X5)		25.0°C	482	uS/cm	2410	
10836-2			25.0°C	180	mS/cm	1800	
10836-3			25.0°C	2.38	mS/cm	2380	
10836-4			25.0°C	195	mS/cm	1930	
10836-5			25.0°C	398	uS/cm		
10836-6	(X10)		25.0°C	323	uS/cm	3230	x= 3305
10836-6 up	(X10)		25.0°C	318	uS/cm	3180	100 x 1.67
Ind.Ck.Std*			25.0°C	435	uS/cm		90%
10836-7	(X10)		25.0°C	315	uS/cm	3150	
10803-1			25.0°C	340	uS/cm		
10949-3			25.0°C	440	uS/cm		
10949-4	(X10)		25.0°C	476	uS/cm	(4760)	
Standard 168						Hold on 8/30	

Comments: * Ind.CkStd = VHG = 324.3 umhos/cm
** If sample reads on the ms/cm scale - multiply results by 1000.

Resistivity = reciprocal of specific conductance (units = meghom-cm)
= 1 / umhos/cm

FI 8/29/02

001224

R. I. Analytical
41 Illinois Ave.
Warwick, RI 02888
Tele: 401-737-8500

Page 491
Date 8/30/02
Analyst FI
Curve Date 11/25/02
Time 11:30

Std. Lot 1.0 mg/l A9476
Lot 1.0 Exp Date 8/14/02
Std. Lot 0.5 mg/l A9487
Lot 0.5 Exp Date 7/19/03
Std. Lot 10.0 mg/l A9507
Lot 10.0 Exp Date 3/11/03

Fluoride (Method 340.1)

Sample ID	Initial Vol (ML)	Final Vol (ML)	Aliquot Colored (ML)	ABS @570 nm 1" Cell	FL401 Conc. from Curve Results	QC
Blank			25	1.316	<0.06	
Std. 0.8 mg/l			25	1.080	0.753	94%
Std. 1.0 mg/l			25	1.027	0.932	93%
10949-3	300	300	25	1.277	<0.06	
10949-4	300	300	25	1.103	(1.092) 2.19	X= 2.30
10949-1	300	300	25	1.274	0.899	
10949-2	300	300	25	1.244	0.200	
10949-5	300	300	25	1.207	0.325	
11054-1	Well		25	0.996	1.037	
11141-1	Well		25	1.245	0.197	
11190-1	Well		25	1.267	0.122	
11150-1	Well		25	1.154	0.504	96%
10949-4 Dup	300	300	12.5	0.945	(1.209) 2.42	%RD= 10
Indep. Check Std 0.5 mg/l			25	1.176	0.430	86%

Calculation: Conc(MG/L) = Conc (from Curve) x Fin Vol (ML) x 25 / Initial Vol (ML) x Aliquot colored

Comments:
Std 0.8 = 2.0 * 10.0 / 25 = 0.8mg/l
Spk = 1.0 * 10.0 / 25 = 0.40 mg/l
Std 1.0 = 25 * 1.0 / 25 = 1.0 mg/l
*Indep. Check Std = 25*0.5 / 25 = 0.5 mg/l

Well = Drinking Water, Undistilled Sample

8/30/02

001225

R.I. Analytical

Specialists in Environmental Services

CERTIFICATE OF ANALYSIS

Mitkem Corporation
Attn: Data Reporting
175 Metro Center Blvd.
Warwick, RI 02886-1755

Date Received: 8/21/02
Date Reported: 8/29/02
P.O. #: 174
Work Order #: 0208-10836

DESCRIPTION: PROJECT# A1243 (SEVEN WASTEWATER SAMPLES)

Subject sample(s) has/have been analyzed by our laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies. The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844, NY-11726

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:

Paul Perrotti
Data Reporting Manager

enc: Chain of Custody

001227

41 Illinois Avenue, Warwick, RI 02888
Tel: (401) 737-8500 Fax: (401) 738-1970

131 Coolidge Street, Bldg 2, Hudson, MA 01749
Tel: (978) 568-0041 Fax: (978) 568-0078

R. I. Analytical
41 Illinois Ave.
Warwick, RI 02888
Tele: 401-737-8500

Page 215
Date 8/29/02
Time 14:45
Analyst (PS)

Specific Conductance **(Method 120.1)**

Sample ID	Standard Lot #	Lot Exp Date	Temperature (Degrees C)	Conductivity Reading (umhos/cm	Scale (u/cm or ms/cm)**	QC	Slope / Elf
Standard 1003	X10419	4/10/03	25.0°C	1.01	m/cm	1010 (101%)	1.013574
Standard 1413			25.0°C	1.41	m/cm	1410 (100%)	
10835-1	(x10)		25.0°C	1.46	m/cm	14600	
10835-2	(x10)		25.0°C	1.58	m/cm	15800	
10835-3			25.0°C	6.06	u/cm		
10836-1	(x5)		25.0°C	483	u/cm	2410	
10836-2			25.0°C	1.80	m/cm	1800	
10836-3			25.0°C	2.38	m/cm	2380	
10836-4			25.0°C	1.93	m/cm	1930	
10836-5			25.0°C	3.98	m/cm		
10836-6	(x10)		25.0°C	323	u/cm	3230	x = 3305
10836-6 MS	(x10)		25.0°C	318	u/cm	3180	MS = 1.67%
Ind.Ck.Std*			25.0°C	435	u/cm		90%
10836-7	(x10)		25.0°C	315	u/cm	3150	
10803-1			25.0°C	340	u/cm		
10949-3			25.0°C	440	u/cm		
10949-4	(x10)		25.0°C	476	u/cm	4760	
Standard 168							

cont'd on p.216

Comments: * Ind.CkStd = VHG = 426.3 umhos/cm
** If sample reads on the ms/cm scale - multiply results by 1000.

Resistivity = reciprocal of specific conductance (units = meghom-cm)
= 1 / umhos/cm

8/29/02

001228

R. I. Analytical
41 Illinois Ave.
Warwick, RI 02888
Tele: 401-737-8500

Page 490
Date 8/29/02
Analyst FS
Curve Date 11/25/02
Time 12:30

Std. Lot 1.0 mg/l A9486
Lot 1.0 Exp Date 7/14/03
Std. Lot 0.5 mg/l A9427
Lot 0.5 Exp Date 7/19/03
Std. Lot 10.0 mg/l A9507
Lot 10.0 Exp Date 3/11/03

Fluoride (Method 340.1)

Sample ID	Initial Vol (ML)	Final Vol (ML)	Aliquot Colored (ML)	ABS @570 nm 1" Cell	FL401 Conc. from Curve Results	QC
Blank			25	1.340	<0.06	
Std. 0.8 mg/l			25	1.068	0.794	99%
Std. 1.0 mg/l			25	1.005	1.006	101%
11033-1	Well		25	1.065	0.804	
11033-2	Well		25	1.053	0.844	
10836-1	300	300	25	1.207	0.325	
10836-2	300	300	25	1.233	0.237	
10836-3	300	300	25	1.237	0.224	
10836-4	300	300	25	1.169	0.453	
10836-5	300	300	25	1.282	0.072	
10836-6	300	300	25	1.241	0.210	
10836-7	300	300	25	1.232	0.240	
10803-1	Well		5	1.184	(0.402) 2.01	x̄ = 1.90
10803-1D	Well		5	1.197	(0.359) 1.80	%RD = 11
10836-5S	300	300	25	1.177	0.426	92%
Indep. Check Std 0.5 mg/l			25	1.169	0.453	91%

FS 8/29/02 17:10

Calculation: Conc(MG/L) = (Conc (from Curve) x Fin Vol (ML) x 25) / (Initial Vol (ML) x Aliquot colored)

Comments:
Std 0.8 = (2.0 * 10.0) / 25 = 0.8mg/l
Spk = (1.0 * 10.0) / 25 = 0.40 mg/l
Std 1.0 = (25 * 1.0) / 25 = 1.0 mg/l
*Indep. Check Std = (25*0.5) / 25 = 0.5 mg/l

Well = Drinking Water, Undistilled Sample

001229

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

21-Aug-02

Mitkem Corporation
175 Metro Center Blvd
Warwick, RI 02886-1755
(401) 733-3600

Subcontractor:
RI Analytical Laboratory
41 Illinois Ave
Warwick, RI 02886

(401) 737-8500

Sample ID	Matrix	Collection Date	Requested Tests: E120.1
A1243-06A	Aqueous	8/20/02 12:00:00 PM	1
A1243-07A	Aqueous	8/20/02 12:00:00 PM	1
A1243-08A	Aqueous	8/20/02 12:00:00 PM	1
A1243-09A	Aqueous	8/20/02 12:00:00 PM	1
A1243-11A	Aqueous	8/20/02 12:00:00 PM	1
A1243-15A	Aqueous	8/20/02 12:00:00 PM	1
A1243-18A	Aqueous	8/20/02 12:00:00 PM	1

1) E120.1 or equivalent method for the analysis of CONDUCTANCE

Comments: INCLUDE all raw data / PO # 174

Relinquished by: [signature] Date/Time 8-21-02 1435 Received by:
Relinquished by: Date/Time Received by:

0208-10836
Date/Time 8/21/02 1435

001230

CHAIN-OF-CUSTODY RECORD

22-Aug-02

Mitkem Corporation
175 Metro Center Blvd
Warwick, RI 02886-1755
(401) 732-3400

Subcontractor:
RI Analytical Laboratory
41 Illinois Ave
Warwick, RI 02886

(401) 737-8500

Sample ID	Matrix	Collection Date	Requested Tests: E120.1	FLUORIDE
A1243-06A	Aqueous	8/20/02 12:00:00 PM	1	1
A1243-06A	Aqueous	8/20/02 12:00:00 PM	1	
A1243-07A	Aqueous	8/20/02 12:00:00 PM		1
A1243-07A	Aqueous	8/20/02 12:00:00 PM	1	
A1243-08A	Aqueous	8/20/02 12:00:00 PM		1
A1243-08A	Aqueous	8/20/02 12:00:00 PM	1	
A1243-10A	Aqueous	9/20/02 12:00:00 PM		1
A1243-10A	Aqueous	9/20/02 12:00:00 PM	1	
A1243-11A	Aqueous	9/20/02 12:00:00 PM		1
A1243-11A	Aqueous	9/20/02 12:00:00 PM	1	
A1243-15A	Aqueous	9/20/02 12:00:00 PM		1
A1243-15A	Aqueous	9/20/02 12:00:00 PM	1	
A1243-16A	Aqueous	9/20/02 12:00:00 PM		1
A1243-16A	Aqueous	9/20/02 12:00:00 PM	1	

1) E120.1 or equivalent method for the analysis of CONDUCTANCE
2) FLUORIDE or equivalent method for the analysis of FLUORIDE

Comments: Include all raw data / Pod174

Yesterday's COC revised. (JW) 8-22-02

	Date/Time		Date/Time
Relinquished by:	8/22/02 10:30	**Received by:**	
Relinquished by:		**Received by:**	

001231

R.I. Analytical
Specialists in Environmental Services

CERTIFICATE OF ANALYSIS

Mitkem Corporation
Attn: Data Reporting
175 Metro Center Blvd.
Warwick, RI 02886-1755

Date Received: 8/23/02
Date Reported: 9/04/02
P.O. #: 177
Work Order #: 0208-11011

DESCRIPTION: PROJECT# A1243 SEVEN AQUEOUS SAMPLES

Subject sample(s) has/have been analyzed by our laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies. The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844, NY-11726

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:

Paul Perrotti
Data Reporting Manager

enc: Chain of Custody

41 Illinois Avenue, Warwick, RI 02888
Tel: (401) 737-8500 Fax: (401) 738-1970

131 Coolidge Street, Bldg 2, Hudson, MA 01749
Tel: (978) 568-0041 Fax: (978) 568-0078

001232

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Mitkem Corporation
Date Received: 8/23/02
Work Order # 0208-11011

Approved by: R.I. Analytical

Sample #: 001
SAMPLE DESCRIPTION: A1243-33B GRAB 08/22/02 @1054

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
SPECIFIC CONDUCTANCE	12000	1.0	uMHOS/CM	EPA 120.1	8/27/02 8:15	EC
FLUORIDE	0.68	0.06	mg/l	EPA 340.1	9/03/02 12:30	FI

Sample #: 002
SAMPLE DESCRIPTION: A1243-34B GRAB 08/22/02 @1416

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
SPECIFIC CONDUCTANCE	2900	1.0	uMHOS/CM	EPA 120.1	8/27/02 8:15	EC
FLUORIDE	0.28	0.06	mg/l	EPA 340.1	9/03/02 12:30	FI

Sample #: 003
SAMPLE DESCRIPTION: A1243-37B GRAB 08/22/02 @0932

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
SPECIFIC CONDUCTANCE	2.3	1.0	uMHOS/CM	EPA 120.1	8/27/02 8:15	EC
FLUORIDE	<0.06	0.06	mg/l	EPA 340.1	9/03/02 12:30	FI

Sample #: 004
SAMPLE DESCRIPTION: A1243-38B GRAB 08/22/02 @1100

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
SPECIFIC CONDUCTANCE	890	1.0	uMHOS/CM	EPA 120.1	8/27/02 8:15	EC
FLUORIDE	0.08	0.06	mg/l	EPA 340.1	9/03/02 12:30	FI

001233

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Mitkem Corporation
Date Received: 8/23/02
Work Order # 0208-11011

Approved by: R.I. Analytical

Sample #: 005
SAMPLE DESCRIPTION: A1243-39B GRAB 08/22/02 @1151

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
SPECIFIC CONDUCTANCE	2800	1.0	uMHOS/CM	EPA 120.1	8/27/02 8:15	EC
FLUORIDE	0.43	0.06	mg/l	EPA 340.1	9/03/02 12:30	FI

Sample #: 006
SAMPLE DESCRIPTION: A1243-40B GRAB 08/22/02 @1312

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
SPECIFIC CONDUCTANCE	28000	1.0	uMHOS/CM	EPA 120.1	8/27/02 8:15	EC
FLUORIDE	1.1	0.06	mg/l	EPA 340.1	9/03/02 12:30	FI

Sample #: 007
SAMPLE DESCRIPTION: A1243-41B GRAB 08/22/02 @1312

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
SPECIFIC CONDUCTANCE	28000	1.0	uMHOS/CM	EPA 120.1	8/27/02 8:15	EC
FLUORIDE	0.98	0.06	mg/l	EPA 340.1	9/03/02 12:30	FI

001234

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Mitkem Corporation
175 Metro Center Blvd
Warwick, RI 02886-1755
(401) 732-3400

Subcontractor:
RI Analytical Laboratory
41 Illinois Ave
Warwick, RI 02888
(401) 737-8500

23-Aug-02

Sample ID	Matrix	Collection Date	Requested Tests: E120.1	FLUORIDE
A1243-33B	Aqueous	8/22/02 10:54:00 AM	1	1
A1243-33B	Aqueous	8/22/02 10:54:00 AM	1	1
A1243-34B	Aqueous	8/22/02 2:16:00 PM	1	1
A1243-34B	Aqueous	8/22/02 2:16:00 PM	1	1
A1243-37B	Aqueous	8/22/02 9:32:00 AM	1	1
A1243-37B	Aqueous	8/22/02 9:32:00 AM	1	1
A1243-38B	Aqueous	8/22/02 11:00:00 AM	1	1
A1243-38B	Aqueous	8/22/02 11:00:00 AM	1	1
A1243-39B	Aqueous	8/22/02 11:51:00 AM	1	1
A1243-39B	Aqueous	8/22/02 11:51:00 AM	1	1
A1243-40B	Aqueous	8/22/02 1:12:00 PM	1	1
A1243-40B	Aqueous	8/22/02 1:12:00 PM	1	1
A1243-41B	Aqueous	8/22/02 1:12:00 PM	1	1
A1243-41B	Aqueous	8/22/02 1:12:00 PM	1	1

Comments: RA #177 / INCLUDE ALL CLIENT DATA

1) E120.1 or equivalent method for the analysis of CONDUCTANCE
2) FLUORIDE or equivalent method for the analysis of FLUORIDE

Relinquished by: [signature] Date/Time 8-23-02 1000
Received by: [signature] Date/Time 8/23/02 445
Relinquished by:
Received by:

0208/1011

00 1235

R. I. Analytical
41 Illinois Ave.
Warwick, RI 02888
Tele: 401-737-8500

Page 3/7
Date 8/27/02
Time 815
Analyst EC

Specific Conductance (Method 120.1)

Sample ID	Standard Lot #	Lot Exp Date	Temperature (Degrees C)	Conductivity Reading umhos/cm	Scale ms/cm or us/cm**	QC	Slope Int
Standard 1003	A 10619	4/10/03	25.0	1.01*	ms/cm	101%	0.98393
Standard 1413			25.0	1.34	ms/cm	95%	
11006-1	5.Reg/50		25.0	12.9	ms/cm		
11011-3			25.0	2.30	ms/cm		
11011-1			25.0	12.3	ms/cm	12300 =	12000
11011-4			25.0	890	us/cm		
11011-5			25.0	2.77	ms/cm	2770 =	2860
11011-6			25.0	27.5	ms/cm	27500 =	28000
11011-7			25.0	27.6	ms/cm	27600 =	28000
11011-2			25.0	2.93	ms/cm	$\bar{x}$ = 2.94	: 2900
11011-2dp			25.0	2.94	ms/cm	%RD=0.3	
Ind.Ck.Std* 5263	A 10181/A 10180	7/03	25.0	486	us/cm	92%	
Standard 168	A 10196	10/23/02	25.0	163	us/cm	97%	

Comments: * Ind.CkStd = VHG = _____ umhos/cm
** If sample reads on the ms/cm scale - multiply results by 1000.

Resistivity = reciprocal of specific conductance (units = meghom-cm)
= 1 / umhos/cm

00 1236

R. I. Analytical
41 Illinois Ave.
Warwick, RI 02888
Tele: 401-737-8500

Page 492
Date 9/3/02
Analyst [signature]
Curve Date 11/25/02
Time 12:30

Std. Lot 1.0 mg/l A5486
Lot 1.0 Exp Date 3/14/03
Std. Lot 0.5 mg/l A10262
Lot 0.5 Exp Date 7/19/03
Std. Lot 10.0 mg/l A5507
Lot 10.0 Exp Date 3/14/03

Fluoride (Method 340.1)

Sample ID	Initial Vol (ML)	Final Vol (ML)	Aliquot Colored (ML)	ABS @570 nm 1" Cell	FL401 Conc. from Curve Results	QC
Blank			25	1.332	<0.06	
Std. 0.8 mg/l			25	1.088	0.726	91%
Std. 1.0 mg/l			25	1.032	0.915	92%
11011-3	300	300	25	1.315	<0.06	
11011-1	300	300	25	1.103	0.676	
11011-4	300	300	25	1.281	0.075	
11011-5	300	300	25	1.177	0.426	
11011-6	300	300	25	0.985	1.074	$\bar{x}$=1.069
11011-7	300	300	25	1.014	0.976	
11011-2	300	300	25	1.221	0.2878	
11011-3 Spk	300	300	25	1.198	0.355	89%
11011-6 Dp	300	300	25	0.988	1.064	%RD=0.9
Indep. Check Std 0.5 mg/l			25	1170	0.450	90%

Calculation: Conc(MG/L) = Conc (from Curve) x Fin Vol (ML) x 25 / Initial Vol (ML) x Aliquot colored

Comments:
Std 0.8 = 2.0 * 10.0 / 25 = 0.8mg/l
Spk = 1.0 * 10.0 / 25 = 0.40 mg/l
Std 1.0 = 25 * 1.0 / 25 = 1.0 mg/l
*Indep. Check Std = 25*0.5 / 25 = 0.5 mg/l

Well = Drinking Water, Undistilled Sample

00 1237

Last Page of Data Report

00 1238

MITKEM CORPORATION

* Data Summary Pack *

Mitkem and Client Sample ID Summary Report*

Mitkem Workorder: A1243

Client Name: HRP Associates

Mitkem Sample ID	Reported Client Sample ID	Full Client Sample ID
A1243-01A	MW-6	
A1243-01B	MW-6	
A1243-01C	MW-6	
A1243-02A	MW-19M	
A1243-02B	MW-19M	
A1243-02C	MW-19M	
A1243-02D	MW-19M	
A1243-02E	MW-19M	
A1243-03A	MW-19D	
A1243-03B	MW-19D	
A1243-03C	MW-19D	
A1243-03D	MW-19D	
A1243-03E	MW-19D	
A1243-04A	MW-34	
A1243-04B	MW-34	
A1243-04C	MW-34	
A1243-04D	MW-34	
A1243-04E	MW-34	
A1243-04F	MW-34	
A1243-05A	MW-40	
A1243-06A	MW-15	
A1243-06B	MW-15	
A1243-06C	MW-15	
A1243-06D	MW-15	
A1243-07A	MW-8	
A1243-07B	MW-8	
A1243-07C	MW-8	
A1243-07D	MW-8	
A1243-08A	MW-7	
A1243-08B	MW-7	
A1243-08C	MW-7	
A1243-08D	MW-7	
A1243-08E	MW-7	
A1243-09A	MW-41	
A1243-10A	MW-30	
A1243-10B	MW-30	
A1243-10C	MW-30	
A1243-10D	MW-30	
A1243-11A	MW-35	
A1243-11B	MW-35	

** If client sample ID has not been truncated, the full client sample ID is listed in the column labeled "Reported Client Sample ID"*

Mitkem Sample ID	Reported Client Sample ID	Full Client Sample ID
A1243-11C	MW-35	
A1243-11D	MW-35	
A1243-11E	MW-35	
A1243-11F	MW-35	
A1243-12A	MW-28	
A1243-12B	MW-28	
A1243-13A	20AUGC2-GW-T	
A1243-14A	MW-9	
A1243-14B	MW-9	
A1243-15A	MW-13	
A1243-15B	MW-13	
A1243-15C	MW-13	
A1243-15D	MW-13	
A1243-15E	MW-13	
A1243-16A	MW-26	
A1243-16B	MW-26	
A1243-16C	MW-26	
A1243-16D	MW-26	
A1243-16E	MW-26	
A1243-17A	13MW11	AOC13-GW-MW-11
A1243-17B	13MW11	AOC13-GW-MW-11
A1243-17C	13MW11	AOC13-GW-MW-11
A1243-17D	13MW11	AOC13-GW-MW-11
A1243-17E	13MW11	AOC13-GW-MW-11
A1243-17F	13MW11	AOC13-GW-MW-11
A1243-18A	13MW33	AOC13-GW-MW-33
A1243-18B	13MW33	AOC13-GW-MW-33
A1243-18C	13MW33	AOC13-GW-MW-33
A1243-18D	13MW33	AOC13-GW-MW-33
A1243-18E	13MW33	AOC13-GW-MW-33
A1243-18F	13MW33	AOC13-GW-MW-33
A1243-19A	TMW42	AOC-GW-T-MW-42
A1243-20A	EMW36	AOC-GW-E-MW-36
A1243-20B	EMW36	AOC-GW-E-MW-36
A1243-20C	EMW36	AOC-GW-E-MW-36
A1243-20D	EMW36	AOC-GW-E-MW-36
A1243-20E	EMW36	AOC-GW-E-MW-36
A1243-20F	EMW36	AOC-GW-E-MW-36
A1243-21A	TMW43	AOC-GW-T-MW-43
A1243-22A	3MW6	AOC3-GW-MW-6
A1243-23A	6MW9	AOC6-GW-MW-9
A1243-24A	6MW29	AOC6-GW-MW-29
A1243-24B	6MW29	AOC6-GW-MW-29
A1243-24C	6MW29	AOC6-GW-MW-29

** If client sample ID has not been truncated, the full client sample ID is listed in the column labeled "Reported Client Sample ID"*

Mitkem Sample ID	Reported Client Sample ID	Full Client Sample ID
A1243-24D	6MW29	AOC6-GW-MW-29
A1243-24E	6MW29	AOC6-GW-MW-29
A1243-25A	2MW26	AOC2-GW-MW-26
A1243-26A	7MW13	AOC2-GW-MW-13
A1243-27A	3MW19M	AOC3-GW-MW-19M
A1243-28A	3MW27	AOC3-GW-MW-27
A1243-28B	3MW27	AOC3-GW-MW-27
A1243-28C	3MW27	AOC3-GW-MW-27
A1243-28D	3MW27	AOC3-GW-MW-27
A1243-28E	3MW27	AOC3-GW-MW-27
A1243-28F	3MW27	AOC3-GW-MW-27
A1243-29A	7MW8	AOC7-GW-MW-8
A1243-30A	MW15	AOC-GW-MW-15
A1243-31A	7MW30	AOC7-GW-MW-30
A1243-32A	5MW28	AOC5-GW-MW-28
A1243-33A	12MW17	AOC1+12-GW-MW-17
A1243-33B	12MW17	AOC1+12-GW-MW-17
A1243-33C	12MW17	AOC1+12-GW-MW-17
A1243-33D	12MW17	AOC1+12-GW-MW-17
A1243-33E	12MW17	AOC1+12-GW-MW-17
A1243-33F	12MW17	AOC1+12-GW-MW-17
A1243-34A	MW14	AOC-GW-MW-14
A1243-34B	MW14	
A1243-34C	MW14	
A1243-34D	MW14	
A1243-34E	MW14	
A1243-35A	MW44	AOC-GW-MW-44
A1243-36A	MW45	AOC-GW-MW-45
A1243-37A	MW37	AOC-GW-MW-37
A1243-37B	MW37	AOC-GW-MW-37
A1243-37C	MW37	AOC-GW-MW-10
A1243-37D	MW37	AOC-GW-MW-37
A1243-37E	MW37	AOC-GW-MW-37
A1243-37F	MW37	AOC-GW-MW-37
A1243-38A	MW10	AOC-GW-MW-10
A1243-38B	MW10	AOC-GW-MW-10
A1243-38C	MW10	AOC-GW-MW-10
A1243-38D	MW10	AOC-GW-MW-10
A1243-38E	MW10	AOC-GW-MW-10
A1243-39A	MW16	AOC-GW-MW-16
A1243-39B	MW16	AOC-GW-MW-16
A1243-39C	MW16	AOC-GW-MW-16
A1243-39D	MW16	AOC-GW-MW-16
A1243-39E	MW16	AOC-GW-MW-16

** If client sample ID has not been truncated, the full client sample ID is listed in the column labeled "Reported Client Sample ID"*

Milkem Corporation

18/Sep/02 15:08

WorkOrder: A1243

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: HOW0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Hold	MS	SEL	Storage
A1243-01A	MW-6	08/19/02 12:00	08/20/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-01B	MW-6	08/19/02 12:00	08/20/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M3
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M3
A1243-01C	MW-6	08/19/02 12:00	08/20/02	Aqueous	CTETPH_W		☐	☐	☐	E4
A1243-02A	MW-19M	08/19/02 12:00	08/20/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-02B	MW-19M	08/19/02 12:00	08/20/02	Aqueous	SM4500_CL_W		☐	☐	☐	E4
					SM4500_H+		☐	☐	☐	E4
A1243-02C	MW-19M	08/19/02 12:00	08/20/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-02D	MW-19M	08/19/02 12:00	08/20/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M3
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M3
A1243-02E	MW-19M	08/19/02 12:00	08/20/02	Aqueous	CTETPH_W		☐	☐	☐	E4

Client Rep: Agnes R Ng

Milkem Sample ID	Reported Client Sample ID	Full Client Sample ID
A1243-01A	MW-6	AGC1+12-GW-MW-20
A1243-01B	12MW20	AGC1+12-GW-MW-20
A1243-01C	12MW20	AGC1+12-GW-MW-20
A1243-02A	12MW20	AGC1+12-GW-MW-20
A1243-02B	12MW20	AGC1+12-GW-MW-20
A1243-02C	12MW20	AGC1+12-GW-MW-20
A1243-02D	12MW20	AGC1+12-GW-MW-20
A1243-02E	12MW20	AGC1+12-GW-MW-20
A1243-02F	12MW20	AGC1+12-GW-MW-20
A1243-03A	MW-19D	AGC1+12-GW-MW-25
A1243-03B	12MW25	AGC1+12-GW-MW-25
A1243-03C	12MW25	AGC1+12-GW-MW-25
A1243-03D	12MW25	AGC1+12-GW-MW-25
A1243-03E	12MW25	AGC1+12-GW-MW-25
A1243-03F	12MW25	AGC1+12-GW-MW-25

** If client sample ID has not been truncated, the full client sample ID is listed in the column labeled "Reported Client Sample ID"*

Milkem Corporation

18/Sep/02 15:08

WorkOrder: A1243

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: HOW0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Hold	MS	SEL	Storage
A1243-03A	MW-19D	08/19/02 12:00	08/20/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-03B	MW-19D	08/19/02 12:00	08/20/02	Aqueous	SM4500_CL_W		☐	☐	☐	E4
					SM4500_H+		☐	☐	☐	E4
A1243-03C	MW-19D	08/19/02 12:00	08/20/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-03D	MW-19D	08/19/02 12:00	08/20/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M3
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M3
A1243-03E	MW-19D	08/19/02 12:00	08/20/02	Aqueous	CTETPH_W		☐	☐	☐	E4
A1243-04A	MW-34	08/19/02 12:00	08/20/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-04B	MW-34	08/19/02 12:00	08/20/02	Aqueous	SM4500_CL_W		☐	☐	☐	E4
					SM4500_H+		☐	☐	☐	E4

Client Rep: Agnes R Ng

Sample Transmittal Documentation

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: HOW0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-03B	MW-7	08/20/02 12:00	08/21/02	Aqueous	SM4500_H+		☐	☐	☐	E1
A1243-03C	MW-7	08/20/02 12:00	08/21/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M1
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M1
A1243-03D	MW-7	08/20/02 12:00	08/21/02	Aqueous	CTETPH_W		☐	☐	☐	E1
A1243-03E	MW-7	08/20/02 12:00	08/21/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-09A	MW-41	08/20/02 12:00	08/21/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-10A	MW-30	08/20/02 12:00	08/21/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-10B	MW-30	08/20/02 12:00	08/20/02	Aqueous	SM4500_CL_W		☐	☐	☐	E1
					SM4500_H+		☐	☐	☐	E1
A1243-10C	MW-30	08/20/02 12:00	08/20/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M1
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M1

Client Rep: Agnes R Ng

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: HOW0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-03C	MW-34	08/19/02 12:00	08/20/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-04D	MW-34	08/19/02 12:00	08/20/02	Aqueous	SW8270C_W		☐	☐	☐	B4
A1243-04E	MW-34	08/19/02 12:00	08/20/02	Aqueous	CTETPH_W		☐	☐	☐	E1
A1243-04F	MW-34	08/19/02 12:00	08/20/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M3
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M3
A1243-05A	MW-40	08/19/02 12:00	08/20/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-06A	MW-15	08/20/02 12:00	08/21/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-06B	MW-15	08/20/02 12:00	08/21/02	Aqueous	SM4500_CL_W		☐	☐	☐	E1
					SM4500_H+		☐	☐	☐	E1
A1243-06C	MW-15	08/20/02 12:00	08/21/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M1

Client Rep: Agnes R Ng

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: HOW0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-10D	MW-30	08/20/02 12:00	08/21/02	Aqueous	CTETPH_W		☐	☐	☐	E1
A1243-11A	MW-35	08/20/02 12:00	08/21/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-11B	MW-35	08/20/02 12:00	08/20/02	Aqueous	SM4500_CL_W		☐	☐	☐	E1
					SM4500_H+		☐	☐	☐	E1
A1243-11C	MW-35	08/20/02 12:00	08/20/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M1
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M1
A1243-11D	MW-35	08/20/02 12:00	08/21/02	Aqueous	CTETPH_W		☐	☐	☐	E1
A1243-11E	MW-35	08/20/02 12:00	08/21/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-11F	MW-35	08/20/02 12:00	08/21/02	Aqueous	SW8270C_W		☐	☐	☐	E1
A1243-12A	MW-28	08/20/02 12:00	08/21/02	Aqueous	SW8260B_W		☐	☐	☐	VOA

Client Rep: Agnes R Ng

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: HOW0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-06C	MW-15	08/20/02 12:00	08/21/02	Aqueous	SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M1
A1243-06D	MW-15	08/20/02 12:00	08/21/02	Aqueous	CTETPH_W		☐	☐	☐	E1
A1243-07A	MW-8	08/20/02 12:00	08/21/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-07B	MW-8	08/20/02 12:00	08/21/02	Aqueous	SM4500_CL_W		☐	☐	☐	E1
					SM4500_H+		☐	☐	☐	E1
A1243-07C	MW-8	08/20/02 12:00	08/21/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M1
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M1
A1243-07D	MW-8	08/20/02 12:00	08/21/02	Aqueous	CTETPH_W		☐	☐	☐	E1
A1243-08A	MW-7	08/20/02 12:00	08/21/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-08B	MW-7	08/20/02 12:00	08/21/02	Aqueous	SM4500_CL_W		☐	☐	☐	E1

Client Rep: Agnes R Ng

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: H0W0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-17D	13MW11	08/21/02 1:03	08/22/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-17C	13MW11	08/21/02 1:03	08/22/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M2
A1243-17G	13MW11	08/21/02 1:03	08/22/02	Aqueous	SM4500_CL_W		☐	☐	☐	J3
					SM4500_H+		☐	☐	☐	J3
A1243-17E	13MW11	08/21/02 1:03	08/22/02	Aqueous	SW8270C_W		☐	☐	☐	J3
A1243-17F	13MW11	08/21/02 1:03	08/22/02	Aqueous	CTETPH_W		☐	☐	☐	J3
A1243-18A	13MW33	08/21/02 1:03	08/22/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-18B	13MW33	08/21/02 1:03	08/22/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB

Client Rep: Agnes R Ng

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: H0W0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-12D	MW-25	08/20/02 12:00	08/21/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M1
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M1
A1243-13A	20AUG02-GW-T	08/20/02 12:00	08/21/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-14A	MW-9	08/20/02 12:00	08/21/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M1
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M1
A1243-14B	MW-9	08/20/02 12:00	08/21/02	Aqueous	CTETPH_W		☐	☐	☐	E1
A1243-15A	MW-13	08/20/02 12:00	08/21/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-15B	MW-13	08/20/02 12:00	08/20/02	Aqueous	SM4500_CL_W		☐	☐	☐	E1
					SM4500_H+		☐	☐	☐	E1
A1243-15C	MW-13	08/20/02 12:00	08/20/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M1
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M1

Client Rep: Agnes R Ng

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: H0W0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-18C	13MW33	08/21/02 1:03	08/22/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M2
A1243-18D	13MW33	08/21/02 1:03	08/22/02	Aqueous	SM4500_CL_W		☐	☐	☐	J3
					SM4500_H+		☐	☐	☐	J3
A1243-18E	13MW33	08/21/02 1:03	08/22/02	Aqueous	SW8270C_W		☐	☐	☐	J3
A1243-18F	13MW33	08/21/02 1:03	08/22/02	Aqueous	CTETPH_W		☐	☐	☐	J3
A1243-19A	TMW42	08/21/02 12:00	08/22/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-20A	EMW36	08/21/02 11:13	08/22/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-20B	EMW36	08/21/02 11:13	08/22/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-20C	EMW36	08/21/02 11:13	08/22/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M2

Client Rep: Agnes R Ng

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: H0W0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-15D	MW-13	08/20/02 12:00	08/21/02	Aqueous	CTETPH_W		☐	☐	☐	E1
A1243-15E	MW-13	08/20/02 12:00	08/21/02	Aqueous	SW8270C_W		☐	☐	☐	E1
A1243-16A	MW-26	08/20/02 12:00	08/21/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-16B	MW-26	08/20/02 12:00	08/20/02	Aqueous	SM4500_CL_W		☐	☐	☐	E1
					SM4500_H+		☐	☐	☐	E1
A1243-16C	MW-26	08/20/02 12:00	08/20/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M1
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M1
A1243-16D	MW-26	08/20/02 12:00	08/21/02	Aqueous	CTETPH_W		☐	☐	☐	E1
A1243-16E	MW-26	08/20/02 12:00	08/21/02	Aqueous	SW8270C_W		☐	☐	☐	E1
A1243-17A	13MW11	08/21/02 1:03	08/22/02	Aqueous	SW8260B_W		☐	☐	☐	VOA

Client Rep: Agnes R Ng

Client ID: HRP Case: Report Level: LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T0 SDG: EDD: XL
Location: H0W0016RA PO: HC Due: 09/13/02
Comments: N/A Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-26C	3MW27	08/21/02 13:19	08/22/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M2
A1243-26D	3MW27	08/21/02 13:19	08/22/02	Aqueous	SM4500_CL_W		☐	☐	☐	J3
					SM4500_H+		☐	☐	☐	J3
A1243-26E	3MW27	08/21/02 13:19	08/22/02	Aqueous	SW8270C_W		☐	☐	☐	J3
A1243-26F	3MW27	08/21/02 13:19	08/22/02	Aqueous	CTETPH_W		☐	☐	☐	J3
A1243-29A	7MW8	08/21/02 1:58	08/22/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-30A	MW15	08/21/02 13:41	08/22/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-31A	7MW30	08/21/02 13:58	08/22/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-32A	5MW28	08/21/02 15:03	08/22/02	Aqueous	CTETPH_W		☐	☐	☐	J3
A1243-33A	12MW17	08/22/02 10:54	08/23/02	Aqueous	SW8260B_W		☐	☐	☐	VOA

Client Rep: Agnes R Ng

Client ID: HRP Case: Report Level: LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T0 SDG: EDD: XL
Location: H0W0016RA PO: HC Due: 09/13/02
Comments: N/A Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-20D	EMW36	08/21/02 11:13	08/22/02	Aqueous	SM4500_CL_W		☐	☐	☐	J3
					SM4500_H+		☐	☐	☐	J3
A1243-20E	EMW36	08/21/02 11:13	08/22/02	Aqueous	SW8270C_W		☐	☐	☐	J3
A1243-20F	EMW36	08/21/02 11:13	08/22/02	Aqueous	CTETPH_W		☐	☐	☐	J3
A1243-21A	TMW43	08/21/02 12:00	08/22/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-22A	3MW6	08/21/02 12:00	08/22/02	Aqueous	SW8270C_W		☐	☐	☐	J3
A1243-23A	6MW9	08/21/02 12:42	08/22/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-24A	6MW29	08/21/02 12:42	08/22/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-24B	6MW29	08/21/02 12:42	08/22/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB

Client Rep: Agnes R Ng

Client ID: HRP Case: Report Level: LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T0 SDG: EDD: XL
Location: H0W0016RA PO: HC Due: 09/13/02
Comments: N/A Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-33B	12MW17	08/22/02 10:54	08/23/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-33C	12MW17	08/22/02 10:54	08/23/02	Aqueous	SM4500_CL_W		☐	☐	☐	H2
					SM4500_H+		☐	☐	☐	H2
A1243-33D	12MW17	08/22/02 10:54	08/23/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M2
A1243-33E	12MW17	08/22/02 10:54	08/23/02	Aqueous	SW8270C_W		☐	☐	☐	H2
A1243-33F	12MW17	08/22/02 10:54	08/23/02	Aqueous	CTETPH_W		☐	☐	☐	H2
A1243-34A	MW14	08/22/02 14:16	08/23/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-34B	MW14	08/22/02 14:16	08/23/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB

Client Rep: Agnes R Ng

Client ID: HRP Case: Report Level: LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T0 SDG: EDD: XL
Location: H0W0016RA PO: HC Due: 09/13/02
Comments: N/A Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-24C	6MW29	08/21/02 12:42	08/22/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M2
A1243-24D	6MW29	08/21/02 12:42	08/22/02	Aqueous	SM4500_CL_W		☐	☐	☐	J3
					SM4500_H+		☐	☐	☐	J3
A1243-24E	6MW29	08/21/02 12:42	08/22/02	Aqueous	CTETPH_W		☐	☐	☐	J3
A1243-25A	2MW26	08/21/02 13:50	08/22/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-26A	2MW13	08/21/02 13:50	08/22/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-27A	3MW19M	08/21/02 13:19	08/22/02	Aqueous	SW8270C_W		☐	☐	☐	J3
A1243-28A	3MW27	08/21/02 13:19	08/22/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-28B	3MW27	08/21/02 13:19	08/22/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB

Client Rep: Agnes R Ng

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: HOW0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-38E	MW10	08/22/02 11:00	08/23/02	Aqueous	CTETPH_W		☐	☐	☐	H2
A1243-39A	MW16	08/22/02 11:51	08/23/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-39B	MW16	08/22/02 11:51	08/23/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-39C	MW16	08/22/02 11:51	08/23/02	Aqueous	SM4500_CL_W		☐	☐	☐	H2
					SM4500_H+		☐	☐	☐	H2
A1243-39D	MW16	08/22/02 11:51	08/23/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M2
A1243-39E	MW16	08/22/02 11:51	08/23/02	Aqueous	CTETPH_W		☐	☐	☐	H2
A1243-40A	12MW20	08/22/02 13:12	08/23/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-40B	12MW20	08/22/02 13:12	08/23/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB

Client Rep: Agnes R Ng

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: HOW0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-34C	MW14	08/22/02 14:16	08/23/02	Aqueous	SM4500_CL_W		☐	☐	☐	H2
					SM4500_H+		☐	☐	☐	H2
A1243-34D	MW14	08/22/02 14:16	08/23/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M2
A1243-34E	MW14	08/22/02 14:16	08/23/02	Aqueous	CTETPH_W		☐	☐	☐	H2
A1243-35A	MW44	08/22/02 12:00	08/23/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-36A	MW45	08/22/02 12:00	08/23/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-37A	MW37	08/22/02 9:32	08/23/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-37B	MW37	08/22/02 9:32	08/23/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-37C	MW37	08/22/02 9:32	08/23/02	Aqueous	SM4500_CL_W		☐	☐	☐	H2
					SM4500_H+		☐	☐	☐	H2

Client Rep: Agnes R Ng

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: HOW0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-40C	12MW20	08/22/02 13:12	08/23/02	Aqueous	SM4500_CL_W		☐	☐	☐	H2
					SM4500_H+		☐	☐	☐	H2
A1243-40D	12MW20	08/22/02 13:12	08/23/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M2
A1243-40E	12MW20	08/22/02 13:12	08/23/02	Aqueous	CTETPH_W		☐	☐	☐	H2
A1243-40F	12MW20	08/22/02 13:12	08/23/02	Aqueous	SW8270C_W		☐	☐	☐	H2
A1243-41A	12MW25	08/22/02 13:12	08/23/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-41B	12MW25	08/22/02 13:12	08/23/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-41C	12MW25	08/22/02 13:12	08/23/02	Aqueous	SM4500_CL_W		☐	☐	☐	H2
					SM4500_H+		☐	☐	☐	H2

Client Rep: Agnes R Ng

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T0
Location: HOW0016RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 09/13/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-37D	MW37	08/22/02 9:32	08/23/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M2
A1243-37E	MW37	08/22/02 9:32	08/23/02	Aqueous	CTETPH_W		☐	☐	☐	H2
A1243-37F	MW37	08/22/02 9:32	08/23/02	Aqueous	SW8270C_W		☐	☐	☐	H2
A1243-38A	MW10	08/22/02 11:00	08/23/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1243-38B	MW10	08/22/02 11:00	08/23/02	Aqueous	COND_W		☐	☐	☐	SUB
					FLUORIDE_W		☐	☐	☐	SUB
A1243-38C	MW10	08/22/02 11:00	08/23/02	Aqueous	SM4500_CL_W		☐	☐	☐	H2
					SM4500_H+		☐	☐	☐	H2
A1243-38D	MW10	08/22/02 11:00	08/23/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M2

Client Rep: Agnes R Ng

Mitkem Corporation | 18/Sep/02 15:08 | WorkOrder: A1243

Client ID: HRP | Case: | Report Level: LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T0 | SDG: | EDD: XL
Location: H9W0016RA | PO: | HC Due: 08/13/02
Comments: N/A | | Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1243-01D	12MW25	08/22/02 13:12	08/23/02	Aqueous	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☒	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn B	☐	☐	☐	M2
A1243-01E	12MW25	08/22/02 13:12	08/23/02	Aqueous	CTETPH_W		☐	☐	☐	H2
A1243-01F	12MW25	08/22/02 13:12	08/23/02	Aqueous	SW8270C_W		☐	☐	☐	H2

Report Rep: Agnes R Ng

000002

SDG Narrative

Mitkem Corporation submits the enclosed data package in response to HRP Associates' Former Howe Furniture Site project. Under this deliverable, analysis results are presented for forty-one aqueous samples that were received at Mitkem between August 20 and 23, 2002. Analyses were performed per specifications in the project's contract and the chain of custody forms. Several discrepancies between the chain of custody documentation and the sample bottles received were resolved with the client following sample receipt. Sample identifications were shortened where necessary due to limitations in the software used to generate CLP-type report forms. A table of sample identifications showing full client ID, shortened client ID and laboratory ID follows this narrative.

The analyses were performed according to EPA SW-846 and State of Connecticut protocols and reported in a CLP-format deliverable. Results for extractable total petroleum hydrocarbons and conventional wet chemistry parameters are reported in standard Mitkem format with supporting raw data. Per method requirements, QC limits are updated on a regular basis. Therefore, QC limits may have changed from those provided when the project QAPP was written. The current valid QC limits are listed on the applicable data reporting forms.

The following observation and/or deviations are observed for the following analyses:

1. Overall Observation:

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting.
- M2 peak co-elution.
- M3 rising or falling baseline.
- M4 retention time shift.
- M5 miscellaneous – under this category, the justification is explained.

The enclosed report includes the originals of all data with the exception of logbook pages and certain initial calibrations. Photocopies of logbook pages are included, with the originals maintained on file at the laboratory. The originals of initial calibrations that are shared among several cases are maintained on file at the laboratory, with photocopies included in the data package.

000003

2. Volatile Analysis:

Surrogate recovery: recoveries were within the QC limits.

Lab control sample/lab control sample duplicate: spike recoveries were within the QC limits.

Sample analysis: samples MW-34, MW-35 and MW-40 were reanalyzed at dilution due to concentrations exceeding the calibration range of the instrument. No other unusual observation was made for the analyses.

3. Semivolatile Analysis:

Surrogate recovery: recoveries were within the QC limits with the exception of high recoveries of two surrogates in one method blank. This method blank and the associated samples were not re-extracted as the high recovery indicates potential high bias, and no target compounds were detected above the reporting limit in the blank or in any associated sample.

Lab control sample/lab control sample duplicate: spike recoveries were within the QC limits with the exception of marginally high recovery of one compound in S1GLCS.

Sample analysis: no unusual observation was made for the analyses.

4. Metals Analysis:

Due to the number of samples in this submittal, metals results are organized into two SDGs, each with their own associated QC. The "A" and "B" metals SDGs are each preceded by a yellow report section divider.

Lab control sample: spike recoveries were within the QC limits.

Matrix spike: matrix spike analysis was performed for ICP metals on sample MW-6, and mercury on sample 12MW25 in the "A" SDG, and for mercury on sample MW-19M in the "B" SDG. Spike recoveries were within QC limits. Please note that the preparation batch for ICP metals in the "B" SDG included a matrix spike on a sample from a different Mitkem project. Those ICP spike results are not included in the data report forms.

Matrix duplicate: matrix duplicate analysis was performed for ICP metals on sample MW-6, and mercury on sample 12MW25 in the "A" SDG, and for mercury on sample MW-19M in the "B" SDG. Replicate RPDs were within the QC limits. Barium, chromium, lead and nickel were incorrectly flagged on Form 1's and Form 6 for sample MW-6 due to software issues. Manual corrections were made to these forms. Please note that the preparation batch for ICP metals in the "B" SDG included a duplicate analysis on a sample from a different Mitkem project. These ICP duplicate results are not included in the data report forms.

Sample analysis: no other unusual observation was noted for the analysis.

5. Connecticut Extractable Total Petroleum Hydrocarbons (ETPH):

Due to the number of samples in this submittal, ETPH results are organized into two SDGs, each with their own associated QC. The "A" and "B" ETPH SDGs are each preceded by a pink report section divider.

Surrogate recovery: recoveries were within QC limits of 20% to 115%. Please note that relatively low surrogate recoveries are typical for aqueous sample analysis using this method.

Lab control sample: spike recoveries were within the QC limits of 27% to 134%.

Sample analysis: no unusual observation was made for the analyses.

6. Conventional Wet Chemistry Parameters:

The analyses pH and chloride were performed on these samples.

QC acceptance criteria were achieved for all analyses associated with these samples. Raw analysis data follow the analysis report and QC summary forms.

7. Subcontracted Analyses:

The analyses fluoride and specific conductance were subcontracted to Rhode Island Analytical Laboratories of Warwick, RI.

Results are summarized on Mitkem data sheets. The entire RIAL report, including associated raw analysis data follow the result summary sheets. Any notes on the analyses are included in the RIAL report.

000002

The pages in this report have been numbered consecutively, starting from this narrative and ending with a page saying only "Last Page of Data Report".

I certify that this data package is in compliance, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Edward A. Lawler
Laboratory Operations Manager
9/18/02

000064

MITKEM CORPORATION

Analysis Report: Extractable Total Petroleum Hydrocarbons

Client: HRP Associates
Analysis: CT-ETPH, 3/99
Matrix: Aqueous

Concentration In: mg/L

Lab ID	Client ID	Result	Reporting Limit	p-Terphenyl Surrogate % Recovery	Analysis Date
A1243-01C	MW-6	0.36	0.10	32	9/7/02
A1243-02E	MW-19M	0.55	0.10	72	9/7/02
A1243-03E	MW-19D	0.24	0.10	60	9/7/02
A1243-04E	MW-34	0.28	0.10	33	9/7/02
A1243-06D	MW-15	0.10	0.10	49	9/7/02
A1243-07D	MW-8	0.15	0.10	60	9/7/02
A1243-08D	MW-7	1.9	0.10	23	9/7/02
A1243-10D	MW-30	0.18	0.10	60	9/7/02
A1243-11D	MW-35	0.36	0.10	65	9/7/02
A1243-14B	MW-9	2.5	0.10	34	9/7/02
A1243-15D	MW-13	0.80	0.10	78	9/7/02
A1243-16D	MW-26	0.53	0.10	81	9/7/02
QA/QC					
Method Blank					
F0821-BW1		ND	0.1	49	9/6/02
Lab Control Sample (% Recovery)					
F0821-LW1		90		74	9/6/02
F0821-LW1DUP		89		73	9/7/02

ND = Not Detected

000065 A1243-ETPH

MITKEM CORPORATION

Analysis Report: Extractable Total Petroleum Hydrocarbons

Client: HRP Associates
Analysis: CT-ETPH, 3/99
Matrix: Aqueous

Concentration In: mg/L

Lab ID	Client ID	Result	Reporting Limit	p-Terphenyl Surrogate % Recovery	Analysis Date
A1243-17F	13MW11	0.11	0.10	57	9/7/02
A1243-18F	13MW33	ND	0.10	79	9/7/02
A1243-20F	EMW36	ND	0.10	38	9/7/02
A1243-24E	5MW29	0.70	0.10	47	9/7/02
A1243-28F	3MW27	0.33	0.10	79	9/7/02
A1243-32A	5MW28	2.3	0.10	53	9/7/02
A1243-33F	12MW17	0.18	0.10	72	9/7/02
A1243-34E	MW14	0.18	0.10	56	9/7/02
A1243-37E	MW37	0.40	0.10	90	9/7/02
A1243-38E	MW10	ND	0.10	70	9/7/02
A1243-39E	MW16	ND	0.10	51	9/7/02
A1243-40E	12MW20	ND	0.10	78	9/7/02
A1243-41E	12MW25	ND	0.10	78	9/7/02
QA/QC					
Method Blank					
F0824-BW1		ND	0.10	43	9/6/02
Lab Control Sample (% Recovery)					
F0824-LW1		82		53	9/7/02
F0824-LW1DUP		86		50	9/7/02

ND = Not Detected

000066 A1243-ETPH

MITKEM CORPORATION

Analysis Report: Specific Conductance

Client: HRP Associates
Matrix: Aqueous

Units: uMHOS/cm
Analysis Method: EPA 120.1
Analysis Date: 8/23/02

Lab ID	Client ID	Result
A1243-02C	MW-19M	15,000
A1243-03C	MW-19D	18,000
A1243-04C	MW-34	5.1
Reporting Limit		1.0

Subcontracted RIAL

000067

MITKEM CORPORATION

Analysis Report: Specific Conductance

Client: HRP Associates
Matrix: Aqueous

Analysis Method: EPA 120.1
Units in: uMHOS/CM
Analysis Date: 8/23/02

Lab ID	Client ID	Result
A1243-06A	MW-15	2,400
A1243-07A	MW-8	1,600
A1243-08A	MW-7	2,400
A1243-10A	MW-30	1,600
A1243-11A	MW-35	4.0
A1243-15A	MW-13	3,200
A1243-16A	MW-26	3,200
A1243-17B	13MW11	3,600
A1243-18B	13MW33	3,400
A1243-20B	EMW36	4.4
A1243-24B	6MW29	4,800
A1243-28B	3MW27	12,000

Reporting Limit: 1.0

Subcontracted-RIAL
A1243

MITKEM CORPORATION

Analysis Report: Specific Conductance

Client: HRP Associates
Matrix: Aqueous

Analysis Method: EPA 120.1
Units in: uMHOS/CM
Analysis Date: 8/27/02

Lab ID	Client ID	Result
A1243-33B	12MW17	12,000
A1243-34B	MW14	2,900
A1243-37B	MW37	2.3
A1243-38B	MW10	890
A1243-39B	MW16	2,800
A1243-40B	12MW20	28,000
A1243-41B	12MW25	28,000

Reporting Limit: 1.0

Subcontracted-RIAL
A1243

MITKEM CORPORATION

Analysis Report: Fluoride

Client: HRP Associates
Matrix: Aqueous

Units: mg/L
Analysis Method: EPA 340.1
Analysis Date: 8/27/02

Lab ID	Client ID	Result
A1243-02C	MW-19M	3.1
A1243-03C	MW-19D	3.3
A1243-04C	MW-34	1.4

Reporting Limit 0.06

Subcontracted-RIAL
A1243

MITKEM CORPORATION

Analysis Report: Fluoride

Client: HRP Associates
Matrix: Aqueous

Analysis Method: EPA 340.1
Units in: mg/L
Analysis Date: 8/28/02

Lab ID	Client ID	Result
A1243-06A	MW-15	0.62
A1243-07A	MW-8	0.24
A1243-08A	MW-7	0.22
A1243-10A	MW-30	0.45
A1243-11A	MW-35	0.07
A1243-15A	MW-13	0.21
A1243-16A	MW-26	0.24
A1243-17B	13MW11	0.10
A1243-18B	13MW33	0.20
A1243-20B	EMW36	ND
A1243-24B	6MW29	2.3
A1243-28B	3MW27	0.32

Reporting Limit: 0.06

ND = Not Detected

Subcontracted-RIAL
A1243

MITKEM CORPORATION

Analysis Report: Fluoride

Client: HRP Associates
Matrix: Aqueous

Analysis Method: EPA 340.1
Units In: mg/L
Analysis Date: 9/30/02

Lab ID	Client ID	Result
A1243-33B	12MW17	0.68
A1243-34B	MW14	0.28
A1243-37B	MW37	ND
A1243-38B	MW10	0.05
A1243-39B	MW16	0.43
A1243-40B	12MW20	1.1
A1243-41B	12MW25	0.08

Reporting Limit: 0.05

ND = Not Detected

Subcontracted TRIAL

A1243

000012

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: MW-19M
Lab ID: A1243-02

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/19/02 12:00
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	4200		500	mg/L	100	08/29/02 13:41
PH VALUE		SM4500_H+				
pH	6.9		1.0	pH Units	1	08/21/02 14:00

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; B - Analyte detected in the associated Method Blank; DF - Dilution Factor; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; E - Value above quantitation range; Limit - Reporting Limit

000013

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: MW-19D
Lab ID: A1243-03

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/19/02 12:00
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	5300		500	mg/L	100	08/29/02 13:41
PH VALUE		SM4500_H+				
pH	6.8		1.0	pH Units	1	08/21/02 14:00

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; B - Analyte detected in the associated Method Blank; DF - Dilution Factor; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; E - Value above quantitation range; Limit - Reporting Limit

000014

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: MW-34
Lab ID: A1243-04

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/19/02 12:00
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	2	J	5.0	mg/L	1	08/29/02 13:41
PH VALUE		SM4500_H+				
pH	7.0		1.0	pH Units	1	08/21/02 14:00

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; B - Analyte detected in the associated Method Blank; DF - Dilution Factor; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; E - Value above quantitation range; Limit - Reporting Limit

000015

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Project: Former Howe Furniture Facility HOW-00
Client Sample ID: MW-15
Collection Date: 08/20/02 12:00
Lab ID: A1243-06
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	510		50	mg/L	10	08/29/02 13:41
PH VALUE		SM4500_H+				
pH	6.5		1.0	pH Units	1	08/23/02 11:15

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; B - Analyte detected in the associated Method Blank; DF - Dilution Factor; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; E - Value above quantitation range; Limit - Reporting Limit

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Project: Former Howe Furniture Facility HOW-00
Client Sample ID: MW-8
Collection Date: 08/20/02 12:00
Lab ID: A1243-07
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	450		50	mg/L	10	08/29/02 13:41
PH VALUE		SM4500_H+				
pH	6.0		1.0	pH Units	1	08/23/02 11:15

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; B - Analyte detected in the associated Method Blank; DF - Dilution Factor; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; E - Value above quantitation range; Limit - Reporting Limit

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Project: Former Howe Furniture Facility HOW-00
Client Sample ID: MW-7
Collection Date: 08/20/02 12:00
Lab ID: A1243-08
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	590		50	mg/L	10	08/29/02 13:41
PH VALUE		SM4500_H+				
pH	6.1		1.0	pH Units	1	08/23/02 11:15

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; B - Analyte detected in the associated Method Blank; DF - Dilution Factor; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; E - Value above quantitation range; Limit - Reporting Limit

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Project: Former Howe Furniture Facility HOW-00
Client Sample ID: MW-30
Collection Date: 08/20/02 12:00
Lab ID: A1243-10
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	470		50	mg/L	10	08/29/02 13:41
PH VALUE		SM4500_H+				
pH	6.0		1.0	pH Units	1	08/23/02 11:15

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; B - Analyte detected in the associated Method Blank; DF - Dilution Factor; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; E - Value above quantitation range; Limit - Reporting Limit

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: MW-35
Lab ID: A1243-15

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/20/02 12:00
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	3	J	5.0	mg/L	1	08/29/02 13:41
PH VALUE		SM4500_H+				
pH	5.3		1.0	pH Units	1	08/23/02 11:15

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Limit - Reporting Limit

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: MW-13
Lab ID: A1243-15

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/20/02 12:00
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	ND		50	mg/L	10	08/29/02 13:41
PH VALUE		SM4500_H+				
pH	6.5		1.0	pH Units	1	08/23/02 11:15

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Limit - Reporting Limit

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: MW-26
Lab ID: A1243-16

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/20/02 12:00
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	660		50	mg/L	10	08/29/02 13:41
PH VALUE		SM4500_H+				
pH	6.5		1.0	pH Units	1	08/23/02 11:15

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Limit - Reporting Limit

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: 13MW11
Lab ID: A1243-17

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/21/02 1:03
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	980		100	mg/L	20	08/29/02 13:41
PH VALUE		SM4500_H+				
pH	5.3		1.0	pH Units	1	08/23/02 11:15

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Limit - Reporting Limit

MITKEM CORPORATION

Date: 14-Sep-02

CLIENT: HRP Associates
Client Sample ID: 13MW33
Lab ID: A1243-18

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/21/02 1:03
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	950		100	mg/L	20	08/29/02 13:41
PH VALUE		SM4500_H+				
pH	5.3		1.0	pH Units	1	08/23/02 11:15

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Limit - Reporting Limit

000024

MITKEM CORPORATION

Date: 14-Sep-02

CLIENT: HRP Associates
Client Sample ID: 13MW36
Lab ID: A1243-20

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/21/02 11:03
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	11		5.0	mg/L	1	08/29/02 13:41
PH VALUE		SM4500_H+				
pH	5.9		1.0	pH Units	1	08/23/02 11:15

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Limit - Reporting Limit

000025

MITKEM CORPORATION

Date: 14-Sep-02

CLIENT: HRP Associates
Client Sample ID: 13MW39
Lab ID: A1243-24

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/21/02 12:41
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	940		100	mg/L	20	08/29/02 13:41
PH VALUE		SM4500_H+				
pH	6.7		1.0	pH Units	1	08/23/02 11:15

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Limit - Reporting Limit

000026

MITKEM CORPORATION

Date: 14-Sep-02

CLIENT: HRP Associates
Client Sample ID: 13MW27
Lab ID: A1243-28

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/21/02 13:19
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	3600		500	mg/L	100	08/29/02 13:41
PH VALUE		SM4500_H+				
pH	6.5		1.0	pH Units	1	08/23/02 11:15

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Limit - Reporting Limit

000027

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: 12MW17
Lab ID: A1243-33

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/22/02 10:54
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	4800		500	mg/L	100	08/29/02 13:46
PH VALUE		SM4500_H+				
pH	6.7		1.0	pH Units	1	08/23/02 15:00

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; B - Analyte detected in the associated Method Blank; DF - Dilution Factor; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; E - Value above quantitation range; Limit - Reporting Limit

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: MW14
Lab ID: A1243-34

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/22/02 14:15
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	800		100	mg/L	20	08/29/02 13:46
PH VALUE		SM4500_H+				
pH	6.4		1.0	pH Units	1	08/23/02 15:00

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; B - Analyte detected in the associated Method Blank; DF - Dilution Factor; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; E - Value above quantitation range; Limit - Reporting Limit

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: MW37
Lab ID: A1243-37

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/22/02 9:32
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	850		500	mg/L	100	08/29/02 13:46
PH VALUE		SM4500_H+				
pH	6.9		1.0	pH Units	1	08/23/02 15:00

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; B - Analyte detected in the associated Method Blank; DF - Dilution Factor; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; E - Value above quantitation range; Limit - Reporting Limit

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: MW10
Lab ID: A1243-38

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/22/02 11:00
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	190		50	mg/L	10	08/29/02 13:46
PH VALUE		SM4500_H+				
pH	6.3		1.0	pH Units	1	08/23/02 15:00

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; B - Analyte detected in the associated Method Blank; DF - Dilution Factor; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; E - Value above quantitation range; Limit - Reporting Limit

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: MW16
Lab ID: A1243-39

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/22/02 11:51
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		**SM4500_CL_W**				
Chloride	800		100	mg/L	20	08/29/02 13:48
PH VALUE		**SM4500_H+**				
pH	6.2		1.0	pH Units	1	08/23/02 15:00

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Limit - Reporting Limit

000032

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: 12MW20
Lab ID: A1243-40

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/22/02 13:12
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		**SM4500_CL_W**				
Chloride	13000		1000	mg/L	200	08/29/02 13:48
PH VALUE		**SM4500_H+**				
pH	5.9		1.0	pH Units	1	08/23/02 15:00

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Limit - Reporting Limit

000033

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Client Sample ID: 12MW25
Lab ID: A1243-41

Project: Former Howe Furniture Facility HOW-00
Collection Date: 08/22/02 13:12
Matrix: AQUEOUS

Analyses	Result	Qual	Limit	Units	DF	Date Analyzed
CHLORIDE BY ARGENTOMETRIC METHOD		**SM4500_CL_W**				
Chloride	13000		2000	mg/L	400	08/29/02 13:48
PH VALUE		**SM4500_H+**				
pH	5.9		1.0	pH Units	1	08/23/02 15:00

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Limit - Reporting Limit

000034

MITKEM CORPORATION

Date: *14-Sep-02*

CLIENT: HRP Associates
Work Order: A1243
Project: Former Howe Furniture Facility HOW-00016.RA

ANALYTICAL QC SUMMARY REPORT

TestCode: SM4500_Cl_W

Sample ID	MB-3208	SampType:	MBLK	TestCode:	SM4500_Cl_	Units:	mg/L	Prep Date:	8/29/02		Run ID:	MANUAL_020829B		
Client ID:	MB-3208	Batch ID:	3208	TestNo:	A4500-Cl			Analysis Date:	8/29/02		SeqNo:	19842		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Chloride		ND	5.0											

Sample ID	MB-3209	SampType:	MBLK	TestCode:	SM4500_Cl_	Units:	mg/L	Prep Date:	8/29/02		Run ID:	MANUAL_020829B		
Client ID:	MB-3209	Batch ID:	3209	TestNo:	A4500-Cl			Analysis Date:	8/29/02		SeqNo:	19866		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Chloride		ND	5.0											

Sample ID	LCS-3208	SampType:	LCS	TestCode:	SM4500_Cl_	Units:	mg/L	Prep Date:	8/29/02		Run ID:	MANUAL_020829B		
Client ID:	LCS-3208	Batch ID:	3208	TestNo:	A4500-Cl			Analysis Date:	8/29/02		SeqNo:	19843		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Chloride		31	5.0	30	0	103	80	120		0				

Sample ID	LCS-3209	SampType:	LCS	TestCode:	SM4500_Cl_	Units:	mg/L	Prep Date:	8/29/02		Run ID:	MANUAL_020829B		
Client ID:	LCS-3209	Batch ID:	3209	TestNo:	A4500-Cl			Analysis Date:	8/29/02		SeqNo:	19867		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Chloride		30.5	5.0	30	0	102	80	120		0				

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

000035

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12MW17

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-33A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2556
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	3	J
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

000036

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12MW17

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-33A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2556
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000037

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
12MW17

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-33A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2556
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0

000038

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12MW20

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-40A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2563
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	4	J
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	2	J
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	2	J
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	2	J
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

000039

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12MW20

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-40A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2563
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
12MW20

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-40A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2563
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12MW25

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-41A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2564
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	2	J
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	3	J
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	2	J
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	1	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12MW25

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-41A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2564
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
12MW25

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-41A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2564
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13MW11

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-17A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2530
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	3	J
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	2	J
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	9	
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13MW11

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-17A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2530
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	2	J
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
13MW11

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-17A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2530
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 354-23-4	ETHANE, 1,2-DICHLORO-1,1,2-T	3.59	36	JN
2. 76-13-1	ETHANE, 1,1,2-TRICHLORO-1,2,	3.85	170	NJ
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13MW33

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-18A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2531
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	4	J
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	2	J
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	8	
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

000048

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13MW33

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-18A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2531
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	2	J
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	4	J
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000049

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
13MW33

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-18A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2531
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	354-23-4	ETHANE, 1,2-DICHLORO-1,1,2-T	3.59	32	J
2.	76-13-1	ETHANE, 1,1,2-TRICHLORO-1,2,	3.85	180	NJ
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0

000050

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
20AUG02-GW-T

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-13A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2503
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

000051

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 20AUG02-GW-T

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-13A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2503

Level: (low/med) LOW Date Received: 08/21/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	2	J
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000052

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: 20AUG02-GW-T

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-13A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2503

Level: (low/med) LOW Date Received: 08/21/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0

000053
~~000054~~ 9/18/02

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 2MW13

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-26A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2551

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	1	J
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

000054

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 2MW13

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-26A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2551

Level: (low/med) LOW Date Received: 08/22/02

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000055

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
2MW13

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-26A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2551
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
2MW26

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-25A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2550
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	1	J
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
2MW26

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-25A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2550
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
2MW26

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-25A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2550
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 3MW27

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-28A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2552
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	100	
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	4	J
67-64-1	Acetone	9	
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	1	J
75-34-3	1,1-Dichloroethane	6	
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	55	
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 3MW27

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-28A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2552
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: 3MW27

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-28A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2552
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 6MW29

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-24A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2549
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	8	
75-34-3	1,1-Dichloroethane	2	J
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
6MW29

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-24A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2549
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
6MW29

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-24A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2549
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
6MW9

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-23A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2548
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	13	
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	9	
75-34-3	1,1-Dichloroethane	2	J
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
6MW9

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-23A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2548
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
6MW9

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-23A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2548
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
7MW30

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-31A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2555
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	1	J
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	3	J
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	20	
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	2	J
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
7MW30

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-31A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2555
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
7MW30

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-31A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2555
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
7MW8

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-29A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2553
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	1	J
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	4	J
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	21	
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	2	J
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
7MW8

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-29A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2553
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
7MW8

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-29A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2553
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
EMW36

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-20A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2533
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	15	
75-09-2	Methylene Chloride	87	
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
EMW36

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-20A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2533
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EMW36

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-20A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2533
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-19D

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-03A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2496
Level: (low/med) LOW Date Received: 08/20/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	19	
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	14	
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	1	J
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	2	J
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	25	
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	3	J
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-19D

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-03A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2496
Level: (low/med) LOW Date Received: 08/20/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-19D

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-03A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2496
Level: (low/med) LOW Date Received: 08/20/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-19M

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-02A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2495
Level: (low/med) LOW Date Received: 08/20/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	48	
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	2	J
67-64-1	Acetone	14	
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	2	J
75-34-3	1,1-Dichloroethane	4	J
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	33	
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	1	J
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-19M

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-02A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2495
Level: (low/med) LOW Date Received: 08/20/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-19M

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-02A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2495
Level: (low/med) LOW Date Received: 08/20/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-28

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-12A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2517
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	2	J
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	1	J
67-64-1	Acetone	5	
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	6	
75-34-3	1,1-Dichloroethane	6	
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	3	J
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-28

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-12A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2517
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-28

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-12A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2517
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-34

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-04A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2497
Level: (low/med) LOW Date Received: 08/20/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	300	E
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	4	J
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	96	
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW-34

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-04A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2497

Level: (low/med) LOW Date Received: 08/20/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: MW-34

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-04A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2497

Level: (low/med) LOW Date Received: 08/20/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	11.13	6	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW-34DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-04ADL

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2527

Level: (low/med) LOW Date Received: 08/20/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.5

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
67-64-1	Acetone	360	D
75-09-2	Methylene Chloride	12	U
107-13-1	Acrylonitrile	12	U
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	Methyl tert-butyl ether	3	DJ
75-34-3	1,1-Dichloroethane	12	U
78-93-3	2-Butanone	92	D
156-59-2	cis-1,2-Dichloroethene	12	U
590-20-7	2,2-Dichloropropane	12	U
74-97-5	Bromochloromethane	12	U
67-66-3	Chloroform	12	U
109-99-9	Tetrahydrofuran	12	U
71-55-6	1,1,1-Trichloroethane	12	U
563-58-6	1,1-Dichloropropene	12	U
56-23-5	Carbon Tetrachloride	12	U
107-06-2	1,2-Dichloroethane	12	U
71-43-2	Benzene	12	U
79-01-6	Trichloroethene	12	U
78-87-5	1,2-Dichloropropane	12	U
74-95-3	Dibromomethane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-pentanone	12	U
108-88-3	Toluene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW-34DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-04ADL

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2527

Level: (low/med) LOW Date Received: 08/20/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.5

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
630-20-6	1,1,1,2-Tetrachloroethane	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (Total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-86-1	Bromobenzene	12	U
96-18-4	1,2,3-Trichloropropane	12	U
103-65-1	n-Propylbenzene	12	U
95-49-8	2-Chlorotoluene	12	U
108-67-8	1,3,5-Trimethylbenzene	12	U
106-43-4	4-Chlorotoluene	12	U
98-06-6	tert-Butylbenzene	12	U
95-63-6	1,2,4-Trimethylbenzene	12	U
135-98-8	sec-Butylbenzene	12	U
99-87-6	4-Isopropyltoluene	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
104-51-8	n-Butylbenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U
87-68-3	Hexachlorobutadiene	12	U
91-20-3	Naphthalene	12	U
87-61-6	1,2,3-Trichlorobenzene	12	U
544-10-5	1-Chlorohexane	12	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-34DL

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-04ADL
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2527
Level: (low/med) LOW Date Received: 08/20/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.5
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-35

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-11E
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2501
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	350	E
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	3	J
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	110	
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-35

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-11E
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2501
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-35

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-11E
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2501
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	11.13	7	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-35DL

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-11EDL
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2529
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 3.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	15	U
74-87-3	Chloromethane	15	U
75-01-4	Vinyl Chloride	15	U
74-83-9	Bromomethane	15	U
75-00-3	Chloroethane	15	U
75-69-4	Trichlorofluoromethane	15	U
75-35-4	1,1-Dichloroethene	15	U
67-64-1	Acetone	360	D
75-09-2	Methylene Chloride	15	U
107-13-1	Acrylonitrile	15	U
156-60-5	trans-1,2-Dichloroethene	15	U
1634-04-4	Methyl tert-butyl ether	15	U
75-34-3	1,1-Dichloroethane	15	U
78-93-3	2-Butanone	85	D
156-59-2	cis-1,2-Dichloroethene	15	U
590-20-7	2,2-Dichloropropane	15	U
74-97-5	Bromochloromethane	15	U
67-66-3	Chloroform	15	U
109-99-9	Tetrahydrofuran	15	U
71-55-6	1,1,1-Trichloroethane	15	U
563-58-6	1,1-Dichloropropene	15	U
56-23-5	Carbon Tetrachloride	15	U
107-06-2	1,2-Dichloroethane	15	U
71-43-2	Benzene	15	U
79-01-6	Trichloroethene	15	U
78-87-5	1,2-Dichloropropane	15	U
74-95-3	Dibromomethane	15	U
75-27-4	Bromodichloromethane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
108-10-1	4-Methyl-2-pentanone	15	U
108-88-3	Toluene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
79-00-5	1,1,2-Trichloroethane	15	U
127-18-4	Tetrachloroethene	15	U

FORM I VOA OLM03.0

000095

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-35DL

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-11EDL
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2529
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 3.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	15	U
124-48-1	Dibromochloromethane	15	U
106-93-4	1,2-Dibromoethane	15	U
108-90-7	Chlorobenzene	15	U
630-20-6	1,1,1,2-Tetrachloroethane	15	U
100-41-4	Ethylbenzene	15	U
1330-20-7	Xylene (Total)	15	U
100-42-5	Styrene	15	U
75-25-2	Bromoform	15	U
98-82-8	Isopropylbenzene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
108-86-1	Bromobenzene	15	U
96-18-4	1,2,3-Trichloropropane	15	U
103-65-1	n-Propylbenzene	15	U
95-49-8	2-Chlorotoluene	15	U
108-67-8	1,3,5-Trimethylbenzene	15	U
106-43-4	4-Chlorotoluene	15	U
98-06-6	tert-Butylbenzene	15	U
95-63-6	1,2,4-Trimethylbenzene	15	U
135-98-8	sec-Butylbenzene	15	U
99-87-6	4-Isopropyltoluene	15	U
541-73-1	1,3-Dichlorobenzene	15	U
106-46-7	1,4-Dichlorobenzene	15	U
104-51-8	n-Butylbenzene	15	U
95-50-1	1,2-Dichlorobenzene	15	U
96-12-8	1,2-Dibromo-3-chloropropane	15	U
120-82-1	1,2,4-Trichlorobenzene	15	U
87-68-3	Hexachlorobutadiene	15	U
91-20-3	Naphthalene	15	U
87-61-6	1,2,3-Trichlorobenzene	15	U
544-10-5	1-Chlorohexane	15	U

FORM I VOA OLM03.0

000096

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-35DL

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-11EDL
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2529
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 3.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0

000096A

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-40

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-05A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2498
Level: (low/med) LOW Date Received: 08/20/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	320	E
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	100	
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	1	J
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

000097

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-40

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-05A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2498
Level: (low/med) LOW Date Received: 08/20/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-40

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-05A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2498
Level: (low/med) LOW Date Received: 08/20/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	11.13	8	J
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-40DL

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-05ADL
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2528
Level: (low/med) LOW Date Received: 08/20/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.5
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	12	U
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	12	U
75-35-4	1,1-Dichloroethene	12	U
67-64-1	Acetone	350	D
75-09-2	Methylene Chloride	12	U
107-13-1	Acrylonitrile	12	U
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	Methyl tert-butyl ether	4	DJ
75-34-3	1,1-Dichloroethane	12	U
78-93-3	2-Butanone	91	D
156-59-2	cis-1,2-Dichloroethene	12	U
590-20-7	2,2-Dichloropropane	12	U
74-97-5	Bromochloromethane	12	U
67-66-3	Chloroform	12	U
109-99-9	Tetrahydrofuran	12	U
71-55-6	1,1,1-Trichloroethane	12	U
563-58-6	1,1-Dichloropropene	12	U
56-23-5	Carbon Tetrachloride	12	U
107-06-2	1,2-Dichloroethane	12	U
71-43-2	Benzene	12	U
79-01-6	Trichloroethene	12	U
78-87-5	1,2-Dichloropropane	12	U
74-95-3	Dibromomethane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-pentanone	12	U
108-88-3	Toluene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-40DL

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-05ADL
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2528
Level: (low/med) LOW Date Received: 08/20/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.5
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
630-20-6	1,1,1,2-Tetrachloroethane	12	U
100-41-4	Ethylbenzene	12	U
1330-20-7	Xylene (Total)	12	U
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-86-1	Bromobenzene	12	U
96-18-4	1,2,3-Trichloropropane	12	U
103-65-1	n-Propylbenzene	12	U
95-49-8	2-Chlorotoluene	12	U
108-67-8	1,3,5-Trimethylbenzene	12	U
106-43-4	4-Chlorotoluene	12	U
98-06-6	tert-Butylbenzene	12	U
95-63-6	1,2,4-Trimethylbenzene	12	U
135-98-8	sec-Butylbenzene	12	U
99-87-6	4-Isopropyltoluene	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
104-51-8	n-Butylbenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U
87-68-3	Hexachlorobutadiene	12	U
91-20-3	Naphthalene	12	U
87-61-6	1,2,3-Trichlorobenzene	12	U
544-10-5	1-Chlorohexane	12	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-40DL

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-05ADL
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2528
Level: (low/med) LOW Date Received: 08/20/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 2.5
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-41

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-09A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2500
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-41

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-09A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2500
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-41

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-09A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2500
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-6

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-01A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2494

Level: (low/med) LOW Date Received: 08/20/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	4	J
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	9	
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	4	J
75-34-3	1,1-Dichloroethane	43	
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	130	
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-6

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-01A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2494

Level: (low/med) LOW Date Received: 08/20/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-6

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-01A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2494

Level: (low/med) LOW Date Received: 08/20/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-08E

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2516

Level: (low/med) LOW Date Received: 08/21/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	2	J
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	1	J
67-64-1	Acetone	5	
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	6	
75-34-3	1,1-Dichloroethane	9	
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	3	J
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW-7

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-08E

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2516

Level: (low/med) LOW Date Received: 08/21/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: MW-7

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-08E

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2516

Level: (low/med) LOW Date Received: 08/21/02

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW10

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-38A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2561

Level: (low/med) LOW Date Received: 08/23/02

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	2	J
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	2	J
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW10

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-38A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2561

Level: (low/med) LOW Date Received: 08/23/02

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW10

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-38A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2561
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	354-23-4	ETHANE, 1,2-DICHLORO-1,1,2-T	3.60	12	JN
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW14

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-34A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2557
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	2	J
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	9	
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	18	
75-34-3	1,1-Dichloroethane	2	J
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	2	J
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW14

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-34A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2557
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW14

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-34A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2557
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW15

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-30A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2554
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW15

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-30A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2554
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW15

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-30A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2554
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW16

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-39A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2562
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	2	J
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	2	J
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW16

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-39A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2562

Level: (low/med) LOW Date Received: 08/23/02

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000122

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: MW16

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-39A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2562

Level: (low/med) LOW Date Received: 08/23/02

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	354-23-4	ETHANE, 1,2-DICHLORO-1,1,2-T	3.59	33	JN
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0

000123

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW37

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-37A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2560

Level: (low/med) LOW Date Received: 08/23/02

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

000124

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW37

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: A1243-37A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2560

Level: (low/med) LOW Date Received: 08/23/02

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	4	J
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000125

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW37

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-37A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2560
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW44

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-35A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2558
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW44

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-35A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2558
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	2	J
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW44

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-35A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2558
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW45

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-36A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2559
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW45

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-36A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2559
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	3	J
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW45

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-36A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2559
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TMW42

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-19A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2532
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TMW42

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-19A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2532
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	2	J
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
TMW42

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-19A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2532
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TMW43

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-21A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2547
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
TMW43

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-21A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2547
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
TMW43

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-21A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2547
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V6VLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: V6L0829B
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2486
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	41	
74-87-3	Chloromethane	48	
75-01-4	Vinyl Chloride	48	
74-83-9	Bromomethane	45	
75-00-3	Chloroethane	49	
75-69-4	Trichlorofluoromethane	49	
75-35-4	1,1-Dichloroethene	50	
67-64-1	Acetone	57	
75-09-2	Methylene Chloride	53	
107-13-1	Acrylonitrile	300	
156-60-5	trans-1,2-Dichloroethene	51	
1634-04-4	Methyl tert-butyl ether	56	
75-34-3	1,1-Dichloroethane	53	
78-93-3	2-Butanone	55	
156-59-2	cis-1,2-Dichloroethene	53	
590-20-7	2,2-Dichloropropane	42	
74-97-5	Bromochloromethane	53	
67-66-3	Chloroform	53	
109-99-9	Tetrahydrofuran	48	
71-55-6	1,1,1-Trichloroethane	50	
563-58-6	1,1-Dichloropropene	50	
56-23-5	Carbon Tetrachloride	50	
107-06-2	1,2-Dichloroethane	54	
71-43-2	Benzene	53	
79-01-6	Trichloroethene	50	
78-87-5	1,2-Dichloropropane	54	
74-95-3	Dibromomethane	54	
75-27-4	Bromodichloromethane	53	
10061-01-5	cis-1,3-Dichloropropene	53	
108-10-1	4-Methyl-2-pentanone	59	
108-88-3	Toluene	54	
10061-02-6	trans-1,3-Dichloropropene	54	
79-00-5	1,1,2-Trichloroethane	54	
127-18-4	Tetrachloroethene	51	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V6VLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: V6L0829B
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2486
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	58	
124-48-1	Dibromochloromethane	52	
106-93-4	1,2-Dibromoethane	54	
108-90-7	Chlorobenzene	52	
630-20-6	1,1,1,2-Tetrachloroethane	52	
100-41-4	Ethylbenzene	51	
1330-20-7	Xylene (Total)	160	
100-42-5	Styrene	55	
75-25-2	Bromoform	52	
98-82-8	Isopropylbenzene	54	
79-34-5	1,1,2,2-Tetrachloroethane	54	
108-86-1	Bromobenzene	52	
96-18-4	1,2,3-Trichloropropane	54	
103-65-1	n-Propylbenzene	51	
95-49-8	2-Chlorotoluene	51	
108-67-8	1,3,5-Trimethylbenzene	52	
106-43-4	4-Chlorotoluene	50	
98-06-6	tert-Butylbenzene	52	
95-63-6	1,2,4-Trimethylbenzene	54	
135-98-8	sec-Butylbenzene	52	
99-87-6	4-Isopropyltoluene	52	
541-73-1	1,3-Dichlorobenzene	51	
106-46-7	1,4-Dichlorobenzene	51	
104-51-8	n-Butylbenzene	51	
95-50-1	1,2-Dichlorobenzene	53	
96-12-8	1,2-Dibromo-3-chloropropane	54	
120-82-1	1,2,4-Trichlorobenzene	49	
87-68-3	Hexachlorobutadiene	44	
91-20-3	Naphthalene	56	
87-61-6	1,2,3-Trichlorobenzene	50	
544-10-5	1-Chlorohexane	48	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V6VLCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: V6L0829C
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2487
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 08/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	35	
74-87-3	Chloromethane	43	
75-01-4	Vinyl Chloride	43	
74-83-9	Bromomethane	41	
75-00-3	Chloroethane	44	
75-69-4	Trichlorofluoromethane	40	
75-35-4	1,1-Dichloroethene	44	
67-64-1	Acetone	49	
75-09-2	Methylene Chloride	48	
107-13-1	Acrylonitrile	290	
156-60-5	trans-1,2-Dichloroethene	46	
1634-04-4	Methyl tert-butyl ether	52	
75-34-3	1,1-Dichloroethane	47	
78-93-3	2-Butanone	50	
156-59-2	cis-1,2-Dichloroethene	48	
590-20-7	2,2-Dichloropropane	38	
74-97-5	Bromochloromethane	48	
67-66-3	Chloroform	48	
109-99-9	Tetrahydrofuran	44	
71-55-6	1,1,1-Trichloroethane	45	
563-58-6	1,1-Dichloropropene	44	
56-23-5	Carbon Tetrachloride	45	
107-06-2	1,2-Dichloroethane	51	
71-43-2	Benzene	48	
79-01-6	Trichloroethene	45	
78-87-5	1,2-Dichloropropane	49	
74-95-3	Dibromomethane	50	
75-27-4	Bromodichloromethane	49	
10061-01-5	cis-1,3-Dichloropropene	48	
108-10-1	4-Methyl-2-pentanone	55	
108-88-3	Toluene	50	
10061-02-6	trans-1,3-Dichloropropene	49	
79-00-5	1,1,2-Trichloroethane	51	
127-18-4	Tetrachloroethene	48	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V6VLCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: V6L0829C

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2487

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	55	
124-48-1	Dibromochloromethane	49	
106-93-4	1,2-Dibromoethane	50	
108-90-7	Chlorobenzene	49	
630-20-6	1,1,1,2-Tetrachloroethane	48	
100-41-4	Ethylbenzene	47	
1330-20-7	Xylene (Total)	140	
100-42-5	Styrene	51	
75-25-2	Bromoform	49	
98-82-8	Isopropylbenzene	50	
79-34-5	1,1,2,2-Tetrachloroethane	50	
108-86-1	Bromobenzene	49	
96-18-4	1,2,3-Trichloropropane	50	
103-65-1	n-Propylbenzene	47	
95-49-8	2-Chlorotoluene	46	
108-67-8	1,3,5-Trimethylbenzene	49	
106-43-4	4-Chlorotoluene	47	
98-06-6	tert-Butylbenzene	49	
95-63-6	1,2,4-Trimethylbenzene	50	
135-98-8	sec-Butylbenzene	48	
99-87-6	4-Isopropyltoluene	48	
541-73-1	1,3-Dichlorobenzene	48	
106-46-7	1,4-Dichlorobenzene	48	
104-51-8	n-Butylbenzene	47	
95-50-1	1,2-Dichlorobenzene	49	
96-12-8	1,2-Dibromo-3-chloropropane	49	
120-82-1	1,2,4-Trichlorobenzene	48	
87-68-3	Hexachlorobutadiene	41	
91-20-3	Naphthalene	53	
87-61-6	1,2,3-Trichlorobenzene	47	
544-10-5	1-Chlorohexane	44	

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V6XLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: V6L0830A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2513

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	36	
74-87-3	Chloromethane	43	
75-01-4	Vinyl Chloride	41	
74-83-9	Bromomethane	44	
75-00-3	Chloroethane	46	
75-69-4	Trichlorofluoromethane	47	
75-35-4	1,1-Dichloroethene	44	
67-64-1	Acetone	62	
75-09-2	Methylene Chloride	45	
107-13-1	Acrylonitrile	260	
156-60-5	trans-1,2-Dichloroethene	44	
1634-04-4	Methyl tert-butyl ether	48	
75-34-3	1,1-Dichloroethane	45	
78-93-3	2-Butanone	56	
156-59-2	cis-1,2-Dichloroethene	44	
590-20-7	2,2-Dichloropropane	44	
74-97-5	Bromochloromethane	45	
67-66-3	Chloroform	46	
109-99-9	Tetrahydrofuran	45	
71-55-6	1,1,1-Trichloroethane	43	
563-58-6	1,1-Dichloropropene	42	
56-23-5	Carbon Tetrachloride	44	
107-06-2	1,2-Dichloroethane	49	
71-43-2	Benzene	46	
79-01-6	Trichloroethene	42	
78-87-5	1,2-Dichloropropane	46	
74-95-3	Dibromomethane	47	
75-27-4	Bromodichloromethane	46	
10061-01-5	cis-1,3-Dichloropropene	46	
108-10-1	4-Methyl-2-pentanone	56	
108-88-3	Toluene	46	
10061-02-6	trans-1,3-Dichloropropene	47	
79-00-5	1,1,2-Trichloroethane	46	
127-18-4	Tetrachloroethene	42	

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V6XLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: V6L0830A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2513

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	59	
124-48-1	Dibromochloromethane	45	
106-93-4	1,2-Dibromoethane	46	
108-90-7	Chlorobenzene	45	
630-20-6	1,1,1,2-Tetrachloroethane	44	
100-41-4	Ethylbenzene	44	
1330-20-7	Xylene (Total)	140	
100-42-5	Styrene	48	
75-25-2	Bromoform	46	
98-82-8	Isopropylbenzene	48	
79-34-5	1,1,2,2-Tetrachloroethane	49	
108-86-1	Bromobenzene	44	
96-18-4	1,2,3-Trichloropropane	51	
103-65-1	n-Propylbenzene	45	
95-49-8	2-Chlorotoluene	44	
108-67-8	1,3,5-Trimethylbenzene	47	
106-43-4	4-Chlorotoluene	44	
98-06-6	tert-Butylbenzene	46	
95-63-6	1,2,4-Trimethylbenzene	47	
135-98-8	sec-Butylbenzene	48	
99-87-6	4-Isopropyltoluene	47	
541-73-1	1,3-Dichlorobenzene	45	
106-46-7	1,4-Dichlorobenzene	45	
104-51-8	n-Butylbenzene	48	
95-50-1	1,2-Dichlorobenzene	45	
96-12-8	1,2-Dibromo-3-chloropropane	52	
120-82-1	1,2,4-Trichlorobenzene	41	
87-68-3	Hexachlorobutadiene	39	
91-20-3	Naphthalene	48	
87-61-6	1,2,3-Trichlorobenzene	42	
544-10-5	1-Chlorohexane	44	

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V6ZLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: V6L0830C

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2545

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	28	
74-87-3	Chloromethane	39	
75-01-4	Vinyl Chloride	39	
74-83-9	Bromomethane	37	
75-00-3	Chloroethane	42	
75-69-4	Trichlorofluoromethane	41	
75-35-4	1,1-Dichloroethene	43	
67-64-1	Acetone	48	
75-09-2	Methylene Chloride	44	
107-13-1	Acrylonitrile	290	
156-60-5	trans-1,2-Dichloroethene	43	
1634-04-4	Methyl tert-butyl ether	45	
75-34-3	1,1-Dichloroethane	44	
78-93-3	2-Butanone	50	
156-59-2	cis-1,2-Dichloroethene	43	
590-20-7	2,2-Dichloropropane	35	
74-97-5	Bromochloromethane	44	
67-66-3	Chloroform	46	
109-99-9	Tetrahydrofuran	44	
71-55-6	1,1,1-Trichloroethane	44	
563-58-6	1,1-Dichloropropene	42	
56-23-5	Carbon Tetrachloride	45	
107-06-2	1,2-Dichloroethane	49	
71-43-2	Benzene	46	
79-01-6	Trichloroethene	41	
78-87-5	1,2-Dichloropropane	46	
74-95-3	Dibromomethane	47	
75-27-4	Bromodichloromethane	46	
10061-01-5	cis-1,3-Dichloropropene	42	
108-10-1	4-Methyl-2-pentanone	51	
108-88-3	Toluene	46	
10061-02-6	trans-1,3-Dichloropropene	44	
79-00-5	1,1,2-Trichloroethane	47	
127-18-4	Tetrachloroethene	51	

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V6ZLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: V6L0830C
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2545
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	52	
124-48-1	Dibromochloromethane	44	
106-93-4	1,2-Dibromoethane	45	
108-90-7	Chlorobenzene	44	
630-20-6	1,1,1,2-Tetrachloroethane	44	
100-41-4	Ethylbenzene	43	
1330-20-7	Xylene (Total)	130	
100-42-5	Styrene	45	
75-25-2	Bromoform	46	
98-82-8	Isopropylbenzene	46	
79-34-5	1,1,2,2-Tetrachloroethane	48	
108-86-1	Bromobenzene	41	
96-18-4	1,2,3-Trichloropropane	49	
103-65-1	n-Propylbenzene	43	
95-49-8	2-Chlorotoluene	42	
108-67-8	1,3,5-Trimethylbenzene	45	
106-43-4	4-Chlorotoluene	42	
98-06-6	tert-Butylbenzene	42	
95-63-6	1,2,4-Trimethylbenzene	45	
135-98-8	sec-Butylbenzene	45	
99-87-6	4-Isopropyltoluene	45	
541-73-1	1,3-Dichlorobenzene	42	
106-46-7	1,4-Dichlorobenzene	42	
104-51-8	n-Butylbenzene	44	
95-50-1	1,2-Dichlorobenzene	43	
96-12-8	1,2-Dibromo-3-chloropropane	49	
120-82-1	1,2,4-Trichlorobenzene	37	
87-68-3	Hexachlorobutadiene	36	
91-20-3	Naphthalene	45	
87-61-6	1,2,3-Trichlorobenzene	40	
544-10-5	1-Chlorohexane	38	

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V6ZLCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: V6L0830C
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2546
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	35	
74-87-3	Chloromethane	40	
75-01-4	Vinyl Chloride	41	
74-83-9	Bromomethane	40	
75-00-3	Chloroethane	43	
75-69-4	Trichlorofluoromethane	44	
75-35-4	1,1-Dichloroethene	46	
67-64-1	Acetone	79	
75-09-2	Methylene Chloride	45	
107-13-1	Acrylonitrile	290	
156-60-5	trans-1,2-Dichloroethene	44	
1634-04-4	Methyl tert-butyl ether	48	
75-34-3	1,1-Dichloroethane	45	
78-93-3	2-Butanone	64	
156-59-2	cis-1,2-Dichloroethene	43	
590-20-7	2,2-Dichloropropane	35	
74-97-5	Bromochloromethane	44	
67-66-3	Chloroform	46	
109-99-9	Tetrahydrofuran	45	
71-55-6	1,1,1-Trichloroethane	44	
563-58-6	1,1-Dichloropropene	42	
56-23-5	Carbon Tetrachloride	45	
107-06-2	1,2-Dichloroethane	50	
71-43-2	Benzene	46	
79-01-6	Trichloroethene	41	
78-87-5	1,2-Dichloropropane	46	
74-95-3	Dibromomethane	47	
75-27-4	Bromodichloromethane	46	
10061-01-5	cis-1,3-Dichloropropene	42	
108-10-1	4-Methyl-2-pentanone	56	
108-88-3	Toluene	46	
10061-02-6	trans-1,3-Dichloropropene	45	
79-00-5	1,1,2-Trichloroethane	47	
127-18-4	Tetrachloroethene	52	

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V6ZLCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: V6L0830C
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2546
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 08/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	62	
124-48-1	Dibromochloromethane	45	
106-93-4	1,2-Dibromoethane	46	
108-90-7	Chlorobenzene	44	
630-20-6	1,1,1,2-Tetrachloroethane	44	
100-41-4	Ethylbenzene	43	
1330-20-7	Xylene (Total)	130	
100-42-5	Styrene	46	
75-25-2	Bromoform	46	
98-82-8	Isopropylbenzene	46	
79-34-5	1,1,2,2-Tetrachloroethane	49	
108-86-1	Bromobenzene	43	
96-18-4	1,2,3-Trichloropropane	50	
103-65-1	n-Propylbenzene	43	
95-49-8	2-Chlorotoluene	42	
108-67-8	1,3,5-Trimethylbenzene	45	
106-43-4	4-Chlorotoluene	43	
98-06-6	tert-Butylbenzene	43	
95-63-6	1,2,4-Trimethylbenzene	46	
135-98-8	sec-Butylbenzene	46	
99-87-6	4-Isopropyltoluene	45	
541-73-1	1,3-Dichlorobenzene	43	
106-46-7	1,4-Dichlorobenzene	43	
104-51-8	n-Butylbenzene	44	
95-50-1	1,2-Dichlorobenzene	45	
96-12-8	1,2-Dibromo-3-chloropropane	53	
120-82-1	1,2,4-Trichlorobenzene	39	
87-68-3	Hexachlorobutadiene	36	
91-20-3	Naphthalene	47	
87-61-6	1,2,3-Trichlorobenzene	40	
544-10-5	1-Chlorohexane	39	

FORM I VOA OLM03.0

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12GWMW17

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-33E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0687
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12GWMW17

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-33E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0687
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	7	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
12GWMW17

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-33E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0687
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 7 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.19	6	J
2.	UNKNOWN	6.61	5	J
3.	UNKNOWN	6.66	5	J
4.	UNKNOWN	6.82	5	J
5.	UNKNOWN	7.07	6	J
6.	UNKNOWN	18.66	6	J
7. 301-02-0	9-OCTADECENAMIDE, (Z)-	20.15	17	NJ
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12GWMW20

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-40F
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0689
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12GWMW20

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-40F
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0689
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	3	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
12GWMW20

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-40F
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0689
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12GWMW25

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-41F
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0690
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12GWMW25

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-41F
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0690
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	4	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
12GWMW25

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-41F
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0690
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13MW11

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-17E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0681
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	2	J
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13MW11

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-17E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0681
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
13MW11

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-17E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0681
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13MW33

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-18E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0682
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13MW33

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-18E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0682
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	6	J
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
13MW33

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-18E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0682
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
3MW19M

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-27A
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0685
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
3MW19M

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-27A
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0685
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	2	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	2	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
3MW19M

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-27A
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0685
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___
Number TICs found: 8
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	8.31	7	J
2.		UNKNOWN	8.35	4	J
3.		UNKNOWN	9.22	5	J
4.		UNKNOWN	10.16	8	J
5.		UNKNOWN	11.24	18	J
6.	74367-34-3	PROPANOIC ACID, 2-METHYL-, 3	11.48	13	NJ
7.		UNKNOWN	12.33	5	J
8.		UNKNOWN	21.54	6	J
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
3MW27

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-28E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0686
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
3MW27

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-28E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0686
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	2	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	2	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
3MW27

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-28E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0686
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___
Number TICs found: 10
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	6.38	4	J
2.		UNKNOWN	8.31	6	J
3.		UNKNOWN	8.35	4	J
4.		UNKNOWN	9.21	5	J
5.		UNKNOWN	10.16	7	J
6.		UNKNOWN	11.24	18	J
7.	109-21-7	BUTANOIC ACID, BUTYL ESTER	11.49	13	NJ
8.		UNKNOWN	12.33	6	J
9.		UNKNOWN	14.92	4	J
10.		UNKNOWN	21.54	14	J
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
3MW6

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-22A
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0684
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
3MW6

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-22A
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0684
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
3MW6

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-22A
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0684
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 7 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 104-66-5	BENZENE, 1,1'-[1,2-ETHANEDIY	15.82	4	NJ
2.	UNKNOWN	20.14	7	J
3.	UNKNOWN	20.48	6	J
4.	UNKNOWN	20.78	9	J
5.	UNKNOWN	21.39	18	J
6.	UNKNOWN	21.56	20	J
7.	UNKNOWN	21.90	28	J
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
3MW36

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-20E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0683
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
EMW36

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-20E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0683
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	*Fluoranthene*	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EMW36

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-20E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0683
Level: (low/med) LOW Date Received: 08/22/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
GWMW37

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-37F
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0688
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	*2-Nitrophenol*	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
GWMW37

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-37F
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0688
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	*Benzo(a)pyrene*	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
GMMW37

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-37F
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0688
Level: (low/med) LOW Date Received: 08/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-13

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-15E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0579
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	*Hexachlorocyclopentadiene*	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	*2,6-Dinitrotoluene*	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-13

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-15E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0579
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	*Dibenzofuran*	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	*N-Nitrosodiphenylamine (1)*	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	4	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-13

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-15E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0579
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 1
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.50	7	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-26

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-16E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0578
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-26

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-16E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0578
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	6	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-26

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-16E
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0578
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.50	5	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-34

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-04D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0576
Level: (low/med) LOW Date Received: 08/20/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	1	J
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-34

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-04D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0576
Level: (low/med) LOW Date Received: 08/20/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	3	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	7	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-34

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-04D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0576
Level: (low/med) LOW Date Received: 08/20/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 7 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.51	4	J
2.	UNKNOWN	10.32	92	J
3.	UNKNOWN	10.37	110	J
4.	UNKNOWN	10.45	5	J
5.	UNKNOWN	11.70	24	J
6. 90-43-7	O-HYDROXYBIPHENYL	13.56	11	NJ
7.	UNKNOWN	20.63	7	J
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-35

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-11F
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0577
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	2	J
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-35

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-11F
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0577
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	3	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	7	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-35

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: A1243-11F
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0577
Level: (low/med) LOW Date Received: 08/21/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 8
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.51	4	J
2.		UNKNOWN	10.31	100	J
3.		UNKNOWN	10.37	120	J
4.		UNKNOWN	10.45	7	J
5.		UNKNOWN	10.53	4	J
6.		UNKNOWN	10.59	7	J
7.		UNKNOWN	11.70	24	J
8.	90-43-7	O-HYDROXYBIPHENYL	13.56	11	NJ
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S1GLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: S0821-LW1
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0570
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	19	
111-44-4	bis(2-Chloroethyl)Ether	55	
95-57-8	2-Chlorophenol	48	
541-73-1	1,3-Dichlorobenzene	47	
106-46-7	1,4-Dichlorobenzene	49	
95-50-1	1,2-Dichlorobenzene	51	
95-48-7	2-Methylphenol	43	
108-60-1	2,2'-oxybis(1-Chloropropane)	56	
106-44-5	4-Methylphenol	40	
621-64-7	N-Nitroso-di-n-propylamine	49	
67-72-1	Hexachloroethane	51	
98-95-3	Nitrobenzene	51	
78-59-1	Isophorone	48	
88-75-5	2-Nitrophenol	50	
105-67-9	2,4-Dimethylphenol	47	
120-83-2	2,4-Dichlorophenol	52	
120-82-1	1,2,4-Trichlorobenzene	50	
91-20-3	Naphthalene	52	
106-47-8	4-Chloroaniline	18	
111-91-1	bis(2-Chloroethoxy)methane	54	
87-68-3	Hexachlorobutadiene	48	
59-50-7	4-Chloro-3-Methylphenol	52	
91-57-6	2-Methylnaphthalene	54	
77-47-4	Hexachlorocyclopentadiene	43	
88-06-2	2,4,6-Trichlorophenol	53	
95-95-4	2,4,5-Trichlorophenol	55	
91-58-7	2-Chloronaphthalene	52	
88-74-4	2-Nitroaniline	54	
131-11-3	Dimethylphthalate	54	
208-96-8	Acenaphthylene	53	
606-20-2	2,6-Dinitrotoluene	54	
99-09-2	3-Nitroaniline	47	
83-32-9	Acenaphthene	53	

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S1GLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: S0821-LW1
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0570
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	51	
100-02-7	4-Nitrophenol	18	J
132-64-9	Dibenzofuran	56	
121-14-2	2,4-Dinitrotoluene	55	
84-66-2	Diethylphthalate	54	
7005-72-3	4-Chlorophenyl-phenylether	55	
86-73-7	Fluorene	55	
100-01-6	4-Nitroaniline	49	
534-52-1	4,6-Dinitro-2-methylphenol	53	
86-30-6	N-Nitrosodiphenylamine (1)	53	
101-55-3	4-Bromophenyl-phenylether	52	
118-74-1	Hexachlorobenzene	53	
87-86-5	Pentachlorophenol	54	
85-01-8	Phenanthrene	55	
120-12-7	Anthracene	56	
86-74-8	Carbazole	57	
84-74-2	Di-n-butylphthalate	56	
206-44-0	Fluoranthene	56	
129-00-0	Pyrene	53	
85-68-7	Butylbenzylphthalate	51	
91-94-1	3,3'-Dichlorobenzidine	51	
56-55-3	Benzo(a)anthracene	53	
218-01-9	Chrysene	53	
117-81-7	bis(2-Ethylhexyl)phthalate	52	
117-84-0	Di-n-octylphthalate	50	
205-99-2	Benzo(b)fluoranthene	51	
207-08-9	Benzo(k)fluoranthene	52	
50-32-8	Benzo(a)pyrene	52	
193-39-5	Indeno(1,2,3-cd)pyrene	50	
53-70-3	Dibenzo(a,h)anthracene	58	
191-24-2	Benzo(g,h,i)perylene	61	

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S1GLCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: S0821-LW1D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0571
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	18	
111-44-4	bis(2-Chloroethyl)Ether	50	
95-57-8	2-Chlorophenol	44	
541-73-1	1,3-Dichlorobenzene	43	
106-46-7	1,4-Dichlorobenzene	44	
95-50-1	1,2-Dichlorobenzene	47	
95-48-7	2-Methylphenol	40	
108-60-1	2,2'-oxybis(1-Chloropropane)	51	
106-44-5	4-Methylphenol	38	
621-64-7	N-Nitroso-di-n-propylamine	47	
67-72-1	Hexachloroethane	46	
98-95-3	Nitrobenzene	48	
78-59-1	Isophorone	47	
88-75-5	2-Nitrophenol	48	
105-67-9	2,4-Dimethylphenol	44	
120-83-2	2,4-Dichlorophenol	50	
120-82-1	1,2,4-Trichlorobenzene	46	
91-20-3	Naphthalene	48	
106-47-8	4-Chloroaniline	20	
111-91-1	bis(2-Chloroethoxy)methane	51	
87-68-3	Hexachlorobutadiene	45	
59-50-7	4-Chloro-3-Methylphenol	51	
91-57-6	2-Methylnaphthalene	51	
77-47-4	Hexachlorocyclopentadiene	39	
88-06-2	2,4,6-Trichlorophenol	50	
95-95-4	2,4,5-Trichlorophenol	51	
91-58-7	2-Chloronaphthalene	49	
88-74-4	2-Nitroaniline	50	
131-11-3	Dimethylphthalate	52	
208-96-8	Acenaphthylene	50	
606-20-2	2,6-Dinitrotoluene	51	
99-09-2	3-Nitroaniline	47	
83-32-9	Acenaphthene	51	

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S1GLCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: S0821-LW1D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0571
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	49	
100-02-7	4-Nitrophenol	18	J
132-64-9	Dibenzofuran	53	
121-14-2	2,4-Dinitrotoluene	52	
84-66-2	Diethylphthalate	53	
7005-72-3	4-Chlorophenyl-phenylether	53	
86-73-7	Fluorene	52	
100-01-6	4-Nitroaniline	47	
534-52-1	4,6-Dinitro-2-methylphenol	52	
86-30-6	N-Nitrosodiphenylamine (1)	52	
101-55-3	4-Bromophenyl-phenylether	50	
118-74-1	Hexachlorobenzene	51	
87-86-5	Pentachlorophenol	52	
85-01-8	Phenanthrene	53	
120-12-7	Anthracene	54	
86-74-8	Carbazole	55	
84-74-2	Di-n-butylphthalate	54	
206-44-0	Fluoranthene	54	
129-00-0	Pyrene	51	
85-68-7	Butylbenzylphthalate	50	
91-94-1	3,3'-Dichlorobenzidine	49	
56-55-3	Benzo(a)anthracene	51	
218-01-9	Chrysene	52	
117-81-7	bis(2-Ethylhexyl)phthalate	51	
117-84-0	Di-n-octylphthalate	48	
205-99-2	Benzo(b)fluoranthene	48	
207-08-9	Benzo(k)fluoranthene	50	
50-32-8	Benzo(a)pyrene	49	
193-39-5	Indeno(1,2,3-cd)pyrene	56	
53-70-3	Dibenzo(a,h)anthracene	55	
191-24-2	Benzo(g,h,i)perylene	58	

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S1QLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: S0825-LW1
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0679
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	39	
111-44-4	bis(2-Chloroethyl)Ether	38	
95-57-8	2-Chlorophenol	40	
541-73-1	1,3-Dichlorobenzene	34	
106-46-7	1,4-Dichlorobenzene	35	
95-50-1	1,2-Dichlorobenzene	37	
95-48-7	2-Methylphenol	44	
108-60-1	2,2'-oxybis(1-Chloropropane)	40	
106-44-5	4-Methylphenol	46	
621-64-7	N-Nitroso-di-n-propylamine	41	
67-72-1	Hexachloroethane	39	
98-95-3	Nitrobenzene	42	
78-59-1	Isophorone	39	
88-75-5	2-Nitrophenol	42	
105-67-9	2,4-Dimethylphenol	40	
120-83-2	2,4-Dichlorophenol	45	
120-82-1	1,2,4-Trichlorobenzene	39	
91-20-3	Naphthalene	40	
106-47-8	4-Chloroaniline	39	
111-91-1	bis(2-Chloroethoxy)methane	44	
87-68-3	Hexachlorobutadiene	37	
59-50-7	4-Chloro-3-Methylphenol	47	
91-57-6	2-Methylnaphthalene	43	
77-47-4	Hexachlorocyclopentadiene	18	
88-06-2	2,4,6-Trichlorophenol	46	
95-95-4	2,4,5-Trichlorophenol	48	
91-58-7	2-Chloronaphthalene	42	
88-74-4	2-Nitroaniline	43	
131-11-3	Dimethylphthalate	45	
208-96-8	Acenaphthylene	43	
606-20-2	2,6-Dinitrotoluene	45	
99-09-2	3-Nitroaniline	41	
83-32-9	Acenaphthene	44	

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S1QLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: S0825-LW1
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0679
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	45	
100-02-7	4-Nitrophenol	46	
132-64-9	Dibenzofuran	46	
121-14-2	2,4-Dinitrotoluene	47	
84-66-2	Diethylphthalate	46	
7005-72-3	4-Chlorophenyl-phenylether	47	
86-73-7	Fluorene	46	
100-01-6	4-Nitroaniline	40	
534-52-1	4,6-Dinitro-2-methylphenol	44	
86-30-6	N-Nitrosodiphenylamine (1)	42	
101-55-3	4-Bromophenyl-phenylether	44	
118-74-1	Hexachlorobenzene	46	
87-86-5	Pentachlorophenol	46	
85-01-8	Phenanthrene	46	
120-12-7	Anthracene	46	
86-74-8	Carbazole	46	
84-74-2	Di-n-butylphthalate	47	
206-44-0	Fluoranthene	46	
129-00-0	Pyrene	45	
85-68-7	Butylbenzylphthalate	43	
91-94-1	3,3'-Dichlorobenzidine	31	
56-55-3	Benzo(a)anthracene	44	
218-01-9	Chrysene	43	
117-81-7	bis(2-Ethylhexyl)phthalate	45	
117-84-0	Di-n-octylphthalate	49	
205-99-2	Benzo(b)fluoranthene	44	
207-08-9	Benzo(k)fluoranthene	46	
50-32-8	Benzo(a)pyrene	42	
193-39-5	Indeno(1,2,3-cd)pyrene	41	
53-70-3	Dibenzo(a,h)anthracene	41	
191-24-2	Benzo(g,h,i)perylene	40	

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S1QLCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: S0825-LW1D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0680
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	41	
111-44-4	bis(2-Chloroethyl)Ether	40	
95-57-8	2-Chlorophenol	41	
541-73-1	1,3-Dichlorobenzene	37	
106-46-7	1,4-Dichlorobenzene	38	
95-50-1	1,2-Dichlorobenzene	40	
95-48-7	2-Methylphenol	45	
108-60-1	2,2'-oxybis(1-Chloropropane)	40	
106-44-5	4-Methylphenol	47	
621-64-7	N-Nitroso-di-n-propylamine	42	
67-72-1	Hexachloroethane	42	
98-95-3	Nitrobenzene	43	
78-59-1	Isophorone	40	
88-75-5	2-Nitrophenol	43	
105-67-9	2,4-Dimethylphenol	43	
120-83-2	2,4-Dichlorophenol	46	
120-82-1	1,2,4-Trichlorobenzene	41	
91-20-3	Naphthalene	42	
106-47-8	4-Chloroaniline	35	
111-91-1	bis(2-Chloroethoxy)methane	45	
87-68-3	Hexachlorobutadiene	39	
59-50-7	4-Chloro-3-Methylphenol	47	
91-57-6	2-Methylnaphthalene	44	
77-47-4	Hexachlorocyclopentadiene	20	
88-06-2	2,4,6-Trichlorophenol	47	
95-95-4	2,4,5-Trichlorophenol	48	
91-58-7	2-Chloronaphthalene	43	
88-74-4	2-Nitroaniline	43	
131-11-3	Dimethylphthalate	46	
208-96-8	Acenaphthylene	44	
606-20-2	2,6-Dinitrotoluene	46	
99-09-2	3-Nitroaniline	40	
83-32-9	Acenaphthene	46	

FORM I SV-1

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S1QLCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: S0825-LW1D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0680
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	46	
100-02-7	4-Nitrophenol	46	
132-64-9	Dibenzofuran	48	
121-14-2	2,4-Dinitrotoluene	48	
84-66-2	Diethylphthalate	46	
7005-72-3	4-Chlorophenyl-phenylether	47	
86-73-7	Fluorene	47	
100-01-6	4-Nitroaniline	39	
534-52-1	4,6-Dinitro-2-methylphenol	47	
86-30-6	N-Nitrosodiphenylamine (1)	40	
101-55-3	4-Bromophenyl-phenylether	46	
118-74-1	Hexachlorobenzene	48	
87-86-5	Pentachlorophenol	48	
85-01-8	Phenanthrene	48	
120-12-7	Anthracene	47	
86-74-8	Carbazole	49	
84-74-2	Di-n-butylphthalate	48	
206-44-0	Fluoranthene	49	
129-00-0	Pyrene	46	
85-68-7	Butylbenzylphthalate	44	
91-94-1	3,3'-Dichlorobenzidine	25	
56-55-3	Benzo(a)anthracene	46	
218-01-9	Chrysene	44	
117-81-7	bis(2-Ethylhexyl)phthalate	45	
117-84-0	Di-n-octylphthalate	49	
205-99-2	Benzo(b)fluoranthene	46	
207-08-9	Benzo(k)fluoranthene	47	
50-32-8	Benzo(a)pyrene	44	
193-39-5	Indeno(1,2,3-cd)pyrene	44	
53-70-3	Dibenzo(a,h)anthracene	44	
191-24-2	Benzo(g,h,i)perylene	43	

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
12MW17

Lab Name: MITKEM_CORPORATION Contract: _____
Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-33D
Level (low/med): MED Date Received: 08/23/02
% Solids: _____

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	124	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	874			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	4.2	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
12MW17

Lab Name: MITKEM_CORPORATION Contract: _____
Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-33D
Level (low/med): MED Date Received: 08/23/02
% Solids: _____

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	1480			P

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
12MW20

Lab Name: MITKEM_CORPORATION Contract: _____
Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-40D
Level (low/med): MED Date Received: 08/23/02
% Solids: _____

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	74.1	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	1340			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	3.1	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: 12MW20

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-40D
Level (low/med): MED Date Received: 08/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	2330			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: 12MW25

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-41D
Level (low/med): MED Date Received: 08/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	68.2	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	1220			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	2.9	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: 12MW25

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-41D
Level (low/med): MED Date Received: 08/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	2210			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: 13MW11

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-17C
Level (low/med): MED Date Received: 08/22/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	4.8	B		P
7440-39-3	Barium	184	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	8.2	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	9.7	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	4.4	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	552			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	7.2	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
13MW11

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-17C
Level (low/med): MED Date Received: 08/22/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	302	B		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
13MW33

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-18C
Level (low/med): MED Date Received: 08/22/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	166	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.2	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	5.0	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.3	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	473			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	3.4	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
13MW33

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-18C
Level (low/med): MED Date Received: 08/22/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	297	B		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
3MW27

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-28C
Level (low/med): MED Date Received: 08/22/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	199	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	7.1	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	6920			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	10	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
3MW27

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-28C
Level (low/med): MED Date Received: 08/22/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	665			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
EMW36

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-20C
Level (low/med): MED Date Received: 08/22/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	10.4	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	4.5	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	0.62	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
EMW36

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-20C
Level (low/med): MED Date Received: 08/22/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	130	U		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
6MW29

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-24C
Level (low/med): MED Date Received: 08/22/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	10.7	B		P
7440-39-3	Barium	78.8	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	913			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	2.0	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	14.5	B		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
6MW29

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-24C
Level (low/med): MED Date Received: 08/22/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	4250			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-34

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-04F
Level (low/med): MED Date Received: 08/20/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	17.5	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	4.8	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	9.7	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	7.0	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	19.5	B		P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	3.4	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	9.5	B		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-34

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-04F
Level (low/med): MED Date Received: 08/20/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	130	U		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-35

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-11C
Level (low/med): MED Date Received: 08/20/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	11.7	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.1	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	28.1	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	2.8	B		P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	2.6	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	11.3	B		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-35

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-11C
Level (low/med): MED Date Received: 08/20/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	130	U		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

000218

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-6

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-01B
Level (low/med): MED Date Received: 08/20/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	74.1	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	4.0	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	17.1	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.5	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	1080			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	5.1	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	26.6	B		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

000219

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-6

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-01B
Level (low/med): MED Date Received: 08/20/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	556			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

000220

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-8

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-07C
Level (low/med): MED Date Received: 08/21/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	8.7	B		P
7440-39-3	Barium	65.0	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.9	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	4.8	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	2100			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	2.9	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	18.0	B		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

000221

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-8

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-07C
Level (low/med): MED Date Received: 08/21/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	526			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW10

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-38D
Level (low/med): MED Date Received: 08/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	8.0	B		P
7440-39-3	Barium	254			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	52.0			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	35.5			P
7439-89-6	Iron				NR
7439-92-1	Lead	14.4			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	830			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	25.1	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	80.9			P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW10

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-38D
Level (low/med): MED Date Received: 08/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	223	B		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW14

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-34D
Level (low/med): MED Date Received: 08/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	6.5	B		P
7440-39-3	Barium	110	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	2400			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	1.2	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW14

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-34D
Level (low/med): MED Date Received: 08/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	597			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW16

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-39D
Level (low/med): MED Date Received: 08/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	196	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	3840			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	6.0	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	23.7	B		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW16

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-39D
Level (low/med): MED Date Received: 08/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	565			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW37

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-37D
Level (low/med): MED Date Received: 08/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	5.9	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	0.50	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW37

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Matrix (soil/water): WATER Lab Sample ID: A1243-37D
Level (low/med): MED Date Received: 08/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	130	U		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

000230

U.S. EPA - CLP

7
LABORATORY CONTROL SAMPLE

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Solid LCS Source:
Aqueous LCS Source: HIGH_PURITY

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic	455.0	476.1	104.6					
Barium	9100.0	10150.0	111.5					
Beryllium								
Cadmium	227.0	233.7	103.0					
Calcium								
Chromium	910.0	985.1	108.3					
Cobalt								
Copper	1130.0	1227.0	108.6					
Iron								
Lead	455.0	467.5	102.7					
Magnesium								
Manganese	2270.0	2494.6	109.9					
Mercury	4.6	4.3	93.5					
Nickel	2270.0	2474.0	109.0					
Potassium								
Selenium	455.0	459.3	100.9					
Silver	1130.0	1195.0	105.8					
Sodium								
Thallium								
Vanadium								
Zinc	2270.0	2494.2	109.9					
Cyanide								

FORM VII - IN SW846

000231

U.S. EPA - CLP

7
LABORATORY CONTROL SAMPLE

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A
Solid LCS Source:
Aqueous LCS Source: HIGH_PURITY

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits	%R
Boron	2250.0	2328.4	103.5					

FORM VII - IN SW846

000232

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-13

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-15C
Level (low/med): MED Date Received: 08/21/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	125	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	4.5	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	5480			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	4.3	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

000233

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-13

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-15C
Level (low/med): MED Date Received: 08/21/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	638			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-15

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-06C
Level (low/med): MED Date Received: 08/21/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	7.4	B		P
7440-39-3	Barium	62.2	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.1	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	420			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	3.9	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-15

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-06C
Level (low/med): MED Date Received: 08/21/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	697			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-19D

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-03D
Level (low/med): MED Date Received: 08/20/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	335			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	52.8			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	41.9			P
7439-89-6	Iron				NR
7439-92-1	Lead	9.1	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	4940			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	37.4	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	38.3	B		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-19D

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-03D
Level (low/med): MED Date Received: 08/20/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	852			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-19M

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-02D
Level (low/med): MED Date Received: 08/20/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	296			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	24.1			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	13.5	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	2.0	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	6580			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	22.4	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-19M

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-02D
Level (low/med): MED Date Received: 08/20/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	756			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-26

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-16C
Level (low/med): MED Date Received: 08/21/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	128	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	5630			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	3.5	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW-26

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-16C
Level (low/med): MED Date Received: 08/21/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	668			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW-28

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-12B
Level (low/med): MED Date Received: 08/21/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.3	B		P
7440-39-3	Barium	52.6	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	5050			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	4.6	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW-28

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-12B
Level (low/med): MED Date Received: 08/21/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	413	B		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW-30

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-10C
Level (low/med): MED Date Received: 08/20/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	6.6	B		P
7440-39-3	Barium	52.3	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	2140			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	2.4	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW-30

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-10C
Level (low/med): MED Date Received: 08/20/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	493	B		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW-7

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-08C
Level (low/med): MED Date Received: 08/21/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.4	B		P
7440-39-3	Barium	58.3	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	8.7	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	3.4	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	4000			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	6.4	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW-7

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-08C
Level (low/med): MED Date Received: 08/21/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	472	B		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: MW-9

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-14A
Level (low/med): MED Date Received: 08/21/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	14.9	B		P
7440-39-3	Barium	70.8	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	960			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	2.2	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-9

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Matrix (soil/water): WATER Lab Sample ID: A1243-14A
Level (low/med): MED Date Received: 08/21/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	5110			P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

7
LABORATORY CONTROL SAMPLE

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Solid LCS Source:
Aqueous LCS Source: HIGH_PURITY

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits	%R
Aluminum								
Antimony								
Arsenic	455.0	446.7	98.2					
Barium	9100.0	9536.8	104.8					
Beryllium								
Cadmium	227.0	226.0	99.6					
Calcium								
Chromium	910.0	940.0	103.3					
Cobalt								
Copper	1130.0	1173.3	103.8					
Iron								
Lead	455.0	441.0	96.9					
Magnesium								
Manganese	2270.0	2443.8	107.7					
Mercury	4.6	4.6	100.0					
Nickel	2270.0	2283.8	100.6					
Potassium								
Selenium	455.0	451.0	99.1					
Silver	1130.0	1179.1	104.3					
Sodium								
Thallium								
Vanadium								
Zinc	2270.0	2359.4	103.9					
Cyanide								

FORM VII - IN SW846

U.S. EPA - CLP

7
LABORATORY CONTROL SAMPLE

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B
Solid LCS Source:
Aqueous LCS Source: HIGH_PURITY

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits	%R
Boron	2250.0	2170.0	96.4					

FORM VII - IN SW846

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

	EPA SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	VBLK6V	101	99	103	99	0
02	V6VLCS	99	103	101	102	0
03	V6VLCSD	100	106	103	103	0
04	MW-6	103	104	106	98	0
05	MW-19M	102	104	108	101	0
06	MW-19D	104	101	108	98	0
07	MW-34	103	100	106	99	0
08	MW-40	103	100	108	100	0
09	MW-41	102	102	108	97	0
10	MW-35	105	104	109	101	0
11	20ADG02-GW-T	103	101	108	96	0
12	VBLK6X	100	97	108	98	0
13	V6XLCS	98	104	104	102	0
14	MW-7	105	100	108	96	0
15	MW-28	104	103	109	96	0
16	MW-34DL	106	102	111	97	0
17	MW-40DL	105	98	110	95	0
18	MW-35DL	106	104	110	97	0
19	13MW11	105	101	110	96	0
20	13MW33	102	104	110	96	0
21	TMW42	106	96	112	94	0
22	BMW36	104	100	110	93	0
23	VBLK6Z	102	100	110	97	0
24	V6ZLCS	102	105	103	102	0
25	V6ZLCSD	102	105	103	101	0
26	TMW43	101	101	109	97	0
27	6MW9	104	101	110	96	0
28	6MW29	102	99	111	97	0
29	2MW26	102	102	110	96	0
30	2MW13	104	104	108	97	0

		QC LIMITS
SMC1	= Dibromofluoromethane	(78-117)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(62-124)
SMC3 (TOL)	= Toluene-d8	(81-116)
OTHER(BFB)	= Bromofluorobenzene	(74-126)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

	EPA SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	3MW27	104	101	110	96	0
02	7MW8	105	103	110	95	0
03	MW15	103	102	111	96	0
04	7MW30	103	101	111	94	0
05	12MW17	101	102	110	95	0
06	MW14	103	101	110	94	0
07	MW44	102	102	111	94	0
08	MW45	105	102	111	93	0
09	MW37	104	103	112	93	0
10	MW10	104	102	110	93	0
11	MW16	104	102	113	91	0
12	12MW20	105	102	110	93	0
13	12MW25	106	100	110	94	0
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
SMC1	= Dibromofluoromethane	(78-117)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(62-124)
SMC3 (TOL)	= Toluene-d8	(81-116)
OTHER (BFB)	= Bromofluorobenzene	(74-126)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	S1GLCS	104	109	103	34	49	104	91	106	0
02	S1GLCSD	98	104	101	33	47	103	84	96	0
03	MW-34	88	95	71	29	40	97	77	91	0
04	MW-35	96	99	92	32	46	95	86	98	0
05	MW-26	78	88	74	29	39	94	70	82	0
06	MW-13	93	97	91	37	52	99	88	202	0
07	SBLK1G	111*	116	107	36	52	104	97	119*	2
08	SBLK1Q	83	87	92	74	55	92	77	84	0
09	S1QLCS	90	94	92	76	57	94	78	88	0
10	S1QLCSD	87	92	90	75	56	93	78	88	0
11	13MW11	88	93	82	75	57	91	80	90	0
12	13MW33	86	92	92	76	58	93	80	91	0
13	EMW36	85	92	91	72	55	93	78	90	0
14	3MW6	82	88	90	71	54	93	75	84	0
15	3MW19M	84	90	81	73	56	98	79	90	0
16	3MW27	87	90	77	73	56	98	80	90	0
17	12GMW17	84	89	87	72	52	101	77	87	0
18	GMW37	86	88	89	69	50	92	75	85	0
19	12GMW20	83	87	88	71	52	96	77	87	0
20	12GMW25	83	87	88	73	53	94	76	86	0
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(48-106)	
S2 (FBP)	= 2-Fluorobiphenyl	(38-120)	
S3 (TPH)	= Terphenyl-d14	(0-147)	
S4 (PHL)	= Phenol-d5	(0-120)	
S5 (2FP)	= 2-Fluorophenol	(1-103)	
S6 (TBP)	= 2,4,6-Tribromophenol	(37-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(28-107)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(37-106)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6VLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	50		41	82	48-135
Chloromethane	50		48	96	60-118
Vinyl Chloride	50		48	96	65-113
Bromomethane	50		45	90	73-122
Chloroethane	50		49	98	72-118
Trichlorofluoromethane	50		49	98	68-129
1,1-Dichloroethene	50		50	100	67-121
Acetone	50		57	114	38-161
Methylene Chloride	50		53	106	59-132
Acrylonitrile	250		300	120	45-172
trans-1,2-Dichloroethen	50		51	102	71-124
Methyl tert-butyl ether	50		56	112	75-123
1,1-Dichloroethane	50		53	106	83-116
2-Butanone	50		55	110	64-139
cis-1,2-Dichloroethene	50		53	106	83-120
2,2-Dichloropropane	50		42	84	70-129
Bromochloromethane	50		53	106	85-124
Chloroform	50		53	106	89-118
Tetrahydrofuran	50		48	96	76-126
1,1,1-Trichloroethane	50		50	100	81-122
1,1-Dichloropropene	50		50	100	76-122
Carbon Tetrachloride	50		50	100	79-125
1,2-Dichloroethane	50		54	108	83-123
Benzene	50		53	106	81-120
Trichloroethene	50		50	100	77-121
1,2-Dichloropropane	50		54	108	81-116
Dibromomethane	50		54	108	86-124
Bromodichloromethane	50		53	106	90-114

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6VLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
cis-1,3-Dichloropropene	50		53	106	78-119
4-Methyl-2-pentanone	50		59	118	57-138
Toluene	50		54	108	81-121
trans-1,3-Dichloroprope	50		54	108	85-118
1,1,2-Trichloroethane	50		54	108	44-159
Tetrachloroethene	50		51	102	73-121
2-Hexanone	50		58	116	53-145
Dibromochloromethane	50		52	104	80-124
1,2-Dibromoethane	50		54	108	80-124
Chlorobenzene	50		52	104	82-118
1,1,1,2-Tetrachloroetha	50		52	104	84-121
Ethylbenzene	50		51	102	80-122
Xylene (Total)	150		160	107	81-121
Styrene	50		55	110	77-128
Bromoform	50		52	104	77-130
Isopropylbenzene	50		54	108	58-148
1,1,2,2-Tetrachloroetha	50		54	108	76-125
Bromobenzene	50		52	104	76-124
1,2,3-Trichloropropane	50		54	108	57-140
n-Propylbenzene	50		51	102	72-119
2-Chlorotoluene	50		51	102	75-120
1,3,5-Trimethylbenzene	50		52	104	76-116
4-Chlorotoluene	50		50	100	78-116
tert-Butylbenzene	50		52	104	71-115
1,2,4-Trimethylbenzene	50		54	108	77-117
sec-Butylbenzene	50		52	104	67-117
4-Isopropyltoluene	50		52	104	68-118
1,3-Dichlorobenzene	50		51	102	80-116

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6VLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,4-Dichlorobenzene	50		51	102	80-114
n-Butylbenzene	50		51	102	58-121
1,2-Dichlorobenzene	50		53	106	81-116
1,2-Dibromo-3-chloropro	50		54	108	71-126
1,2,4-Trichlorobenzene	50		49	98	67-114
Hexachlorobutadiene	50		44	88	50-111
Naphthalene	50		56	112	58-133
1,2,3-Trichlorobenzene	50		50	100	64-118
1-Chlorohexane	50		48	96	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6VLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	50	35	70	16	40	48-135
Chloromethane	50	43	86	11	40	60-118
Vinyl Chloride	50	43	86	11	40	55-113
Bromomethane	50	41	82	9	40	73-122
Chloroethane	50	44	88	11	40	72-118
Trichlorofluoromethane	50	40	80	20	40	68-129
1,1-Dichloroethene	50	44	88	13	40	67-121
Acetone	50	49	98	15	40	38-161
Methylene Chloride	50	48	96	10	40	59-132
Acrylonitrile	250	290	116	3	40	45-172
trans-1,2-Dichloroethen	50	46	92	10	40	71-124
Methyl tert-butyl ether	50	52	104	7	40	75-123
1,1-Dichloroethane	50	47	94	12	40	83-116
2-Butanone	50	50	100	10	40	64-139
cis-1,2-Dichloroethene	50	48	96	10	40	83-120
2,2-Dichloropropane	50	38	76	10	40	70-129
Bromochloromethane	50	48	96	10	40	85-124
Chloroform	50	48	96	10	40	89-118
Tetrahydrofuran	50	44	88	9	40	76-126
1,1,1-Trichloroethane	50	45	90	10	40	81-122
1,1-Dichloropropene	50	44	88	13	40	76-122
Carbon Tetrachloride	50	45	90	10	40	79-125
1,2-Dichloroethane	50	51	102	6	40	83-123
Benzene	50	48	96	10	40	81-120
Trichloroethene	50	45	90	10	40	77-121
1,2-Dichloropropane	50	49	98	10	40	81-116
Dibromomethane	50	50	100	8	40	86-124
Bromodichloromethane	50	49	98	8	40	90-114

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6VLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
cis-1,3-Dichloropropene	50	48	96	10	40	78-119
4-Methyl-2-pentanone	50	55	110	7	40	57-138
Toluene	50	50	100	8	40	81-121
trans-1,3-Dichloroprope	50	49	98	10	40	85-118
1,1,2-Trichloroethane	50	51	102	6	40	44-159
Tetrachloroethene	50	48	96	6	40	73-121
2-Hexanone	50	55	110	5	40	55-145
Dibromochloromethane	50	49	98	6	40	80-124
1,2-Dibromoethane	50	50	100	8	40	80-124
Chlorobenzene	50	49	98	6	40	82-118
1,1,1,2-Tetrachloroetha	50	48	96	8	40	84-121
Ethylbenzene	50	47	94	8	40	80-122
Xylene (Total)	150	140	93	14	40	81-121
Styrene	50	51	102	8	40	77-128
Bromoform	50	49	98	6	40	77-130
Isopropylbenzene	50	50	100	8	40	58-148
1,1,2,2-Tetrachloroetha	50	50	100	8	40	75-125
Bromobenzene	50	49	98	6	40	76-124
1,2,3-Trichloropropane	50	50	100	8	40	57-140
n-Propylbenzene	50	47	94	8	40	72-119
2-Chlorotoluene	50	46	92	10	40	75-120
1,3,5-Trimethylbenzene	50	49	98	6	40	76-116
4-Chlorotoluene	50	47	94	6	40	78-116
tert-Butylbenzene	50	49	98	6	40	71-115
1,2,4-Trimethylbenzene	50	50	100	8	40	77-117
sec-Butylbenzene	50	48	96	8	40	67-117
4-Isopropyltoluene	50	48	96	8	40	68-118
1,3-Dichlorobenzene	50	48	96	6	40	80-116

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6VLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,4-Dichlorobenzene	50	48	96	6	40	80-114
n-Butylbenzene	50	47	94	8	40	58-121
1,2-Dichlorobenzene	50	49	98	8	40	81-116
1,2-Dibromo-3-chloropro	50	49	98	10	40	71-126
1,2,4-Trichlorobenzene	50	48	96	2	40	67-114
Hexachlorobutadiene	50	41	82	7	40	50-111
Naphthalene	50	53	106	6	40	58-133
1,2,3-Trichlorobenzene	50	47	94	6	40	64-118
1-Chlorohexane	50	44	88	9	40	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 65 outside limits
Spike Recovery: 0 out of 130 outside limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6XLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	50		36	72	48-135
Chloromethane	50		43	86	60-118
Vinyl Chloride	50		41	82	65-113
Bromomethane	50		44	88	73-122
Chloroethane	50		46	92	72-118
Trichlorofluoromethane	50		47	94	68-129
1,1-Dichloroethene	50		44	88	67-121
Acetone	50		62	124	38-161
Methylene Chloride	50		45	90	59-132
Acrylonitrile	250		260	104	45-172
trans-1,2-Dichloroethen	50		44	88	71-124
Methyl tert-butyl ether	50		48	96	75-123
1,1-Dichloroethane	50		45	90	83-116
2-Butanone	50		56	112	64-139
cis-1,2-Dichloroethene	50		44	88	83-120
2,2-Dichloropropane	50		44	88	70-129
Bromochloromethane	50		45	90	85-124
Chloroform	50		46	92	89-118
Tetrahydrofuran	50		45	90	76-126
1,1,1-Trichloroethane	50		43	86	81-122
1,1-Dichloropropene	50		42	84	76-122
Carbon Tetrachloride	50		44	88	79-125
1,2-Dichloroethane	50		49	98	83-123
Benzene	50		46	92	81-120
Trichloroethene	50		42	84	77-121
1,2-Dichloropropane	50		46	92	81-116
Dibromomethane	50		47	94	86-124
Bromodichloromethane	50		46	92	90-114

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

000262

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6XLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
cis-1,3-Dichloropropene	50		46	92	78-119
4-Methyl-2-pentanone	50		56	112	57-138
Toluene	50		46	92	81-121
trans-1,3-Dichloroprope	50		47	94	85-118
1,1,2-Trichloroethane	50		46	92	44-159
Tetrachloroethene	50		42	84	73-121
2-Hexanone	50		59	118	53-145
Dibromochloromethane	50		45	90	80-124
1,2-Dibromoethane	50		46	92	80-124
Chlorobenzene	50		45	90	82-118
1,1,1,2-Tetrachloroetha	50		44	88	84-121
Ethylbenzene	50		44	88	80-122
Xylene (Total)	150		140	93	81-121
Styrene	50		48	96	77-128
Bromoform	50		46	92	77-130
Isopropylbenzene	50		48	96	58-148
1,1,2,2-Tetrachloroetha	50		49	98	76-125
Bromobenzene	50		44	88	76-124
1,2,3-Trichloropropane	50		51	102	57-140
n-Propylbenzene	50		45	90	72-119
2-Chlorotoluene	50		44	88	75-120
1,3,5-Trimethylbenzene	50		47	94	76-116
4-Chlorotoluene	50		44	88	78-116
tert-Butylbenzene	50		46	92	71-115
1,2,4-Trimethylbenzene	50		47	94	77-117
sec-Butylbenzene	50		48	96	67-117
4-Isopropyltoluene	50		47	94	68-118
1,3-Dichlorobenzene	50		45	90	80-116

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

000263

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6XLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,4-Dichlorobenzene	50		45	90	80-114
n-Butylbenzene	50		48	96	58-121
1,2-Dichlorobenzene	50		45	90	81-116
1,2-Dibromo-3-chloropro	50		52	104	71-126
1,2,4-Trichlorobenzene	50		41	82	67-114
Hexachlorobutadiene	50		39	78	50-111
Naphthalene	50		48	96	58-133
1,2,3-Trichlorobenzene	50		42	84	64-118
1-Chlorohexane	50		44	88	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 65 outside limits

COMMENTS: _____

000264

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6ZLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	50		28	56	48-135
Chloromethane	50		39	78	60-118
Vinyl Chloride	50		39	78	65-113
Bromomethane	50		37	74	73-122
Chloroethane	50		42	84	72-118
Trichlorofluoromethane	50		41	82	68-129
1,1-Dichloroethene	50		43	86	67-121
Acetone	50		48	96	38-161
Methylene Chloride	50		44	88	59-132
Acrylonitrile	250		290	116	45-172
trans-1,2-Dichloroethen	50		43	86	71-124
Methyl tert-butyl ether	50		45	90	75-123
1,1-Dichloroethane	50		44	88	83-116
2-Butanone	50		50	100	64-139
cis-1,2-Dichloroethene	50		43	86	83-120
2,2-Dichloropropane	50		35	70	70-129
Bromochloromethane	50		44	88	85-124
Chloroform	50		46	92	89-118
Tetrahydrofuran	50		44	88	76-126
1,1,1-Trichloroethane	50		44	88	81-122
1,1-Dichloropropene	50		42	84	76-122
Carbon Tetrachloride	50		45	90	79-125
1,2-Dichloroethane	50		49	98	83-123
Benzene	50		46	92	81-120
Trichloroethene	50		41	82	77-121
1,2-Dichloropropane	50		46	92	81-116
Dibromomethane	50		47	94	86-124
Bromodichloromethane	50		46	92	90-114

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

000265

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6ZLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
cis-1,3-Dichloropropene	50		42	84	78-119
4-Methyl-2-pentanone	50		51	102	57-138
Toluene	50		46	92	81-121
trans-1,3-Dichloroprope	50		44	88	85-118
1,1,2-Trichloroethane	50		47	94	44-159
Tetrachloroethene	50		51	102	73-121
2-Hexanone	50		52	104	53-145
Dibromochloromethane	50		44	88	80-124
1,2-Dibromoethane	50		45	90	80-124
Chlorobenzene	50		44	88	82-118
1,1,1,2-Tetrachloroetha	50		44	88	84-121
Ethylbenzene	50		43	86	80-122
Xylene (Total)	150		130	87	81-121
Styrene	50		45	90	77-128
Bromoform	50		46	92	77-130
Isopropylbenzene	50		46	92	58-148
1,1,2,2-Tetrachloroetha	50		48	96	76-125
Bromobenzene	50		41	82	76-124
1,2,3-Trichloropropane	50		49	98	57-140
n-Propylbenzene	50		43	86	72-119
2-Chlorotoluene	50		42	84	75-120
1,3,5-Trimethylbenzene	50		45	90	76-116
4-Chlorotoluene	50		42	84	78-116
tert-Butylbenzene	50		42	84	71-115
1,2,4-Trimethylbenzene	50		45	90	77-117
sec-Butylbenzene	50		45	90	67-117
4-Isopropyltoluene	50		45	90	68-118
1,3-Dichlorobenzene	50		42	84	80-116

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

000266

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6ZLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,4-Dichlorobenzene	50		42	84	80-114
n-Butylbenzene	50		44	88	58-121
1,2-Dichlorobenzene	50		43	86	81-116
1,2-Dibromo-3-chloropro	50		49	98	71-126
1,2,4-Trichlorobenzene	50		37	74	67-114
Hexachlorobutadiene	50		36	72	50-111
Naphthalene	50		45	90	58-133
1,2,3-Trichlorobenzene	50		40	80	64-118
1-Chlorohexane	50		38	76	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

000267

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6ZLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	50	35	70	22	40	48-135
Chloromethane	50	40	80	2	40	60-118
Vinyl Chloride	50	41	82	5	40	65-113
Bromomethane	50	40	80	8	40	73-122
Chloroethane	50	43	86	2	40	72-118
Trichlorofluoromethane	50	44	88	7	40	68-129
1,1-Dichloroethene	50	46	92	7	40	67-121
Acetone	50	79	158	49*	40	38-161
Methylene Chloride	50	45	90	2	40	59-132
Acrylonitrile	250	290	116	0	40	45-172
trans-1,2-Dichloroethen	50	44	88	2	40	71-124
Methyl tert-butyl ether	50	48	96	6	40	75-123
1,1-Dichloroethane	50	45	90	2	40	83-116
2-Butanone	50	64	128	24	40	64-139
cis-1,2-Dichloroethene	50	43	86	0	40	83-120
2,2-Dichloropropane	50	35	70	0	40	70-129
Bromochloromethane	50	44	88	0	40	85-124
Chloroform	50	46	92	0	40	89-118
Tetrahydrofuran	50	45	90	2	40	76-126
1,1,1-Trichloroethane	50	44	88	0	40	81-122
1,1-Dichloropropene	50	42	84	0	40	76-122
Carbon Tetrachloride	50	45	90	0	40	79-125
1,2-Dichloroethane	50	50	100	2	40	83-123
Benzene	50	46	92	0	40	81-120
Trichloroethene	50	41	82	0	40	77-121
1,2-Dichloropropane	50	46	92	0	40	81-116
Dibromomethane	50	47	94	0	40	86-124
Bromodichloromethane	50	46	92	0	40	90-114

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

000268

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6ZLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
cis-1,3-Dichloropropene	50	42	84	0	40	78-119
4-Methyl-2-pentanone	50	56	112	9	40	57-138
Toluene	50	46	92	0	40	81-121
trans-1,3-Dichloroprope	50	45	90	2	40	85-118
1,1,2-Trichloroethane	50	47	94	0	40	44-159
Tetrachloroethene	50	52	104	2	40	73-121
2-Hexanone	50	62	124	18	40	53-145
Dibromochloromethane	50	45	90	2	40	80-124
1,2-Dibromoethane	50	46	92	2	40	80-124
Chlorobenzene	50	44	88	0	40	82-118
1,1,1,2-Tetrachloroetha	50	44	88	0	40	84-121
Ethylbenzene	50	43	86	0	40	80-122
Xylene (Total)	150	130	87	0	40	81-121
Styrene	50	46	92	2	40	77-128
Bromoform	50	46	92	0	40	77-130
Isopropylbenzene	50	46	92	0	40	58-148
1,1,2,2-Tetrachloroetha	50	49	98	2	40	76-125
Bromobenzene	50	43	86	5	40	76-124
1,2,3-Trichloropropane	50	50	100	2	40	57-140
n-Propylbenzene	50	43	86	0	40	72-119
2-Chlorotoluene	50	42	84	0	40	75-120
1,3,5-Trimethylbenzene	50	45	90	0	40	76-116
4-Chlorotoluene	50	43	86	2	40	78-116
tert-Butylbenzene	50	43	86	2	40	71-115
1,2,4-Trimethylbenzene	50	46	92	2	40	77-117
sec-Butylbenzene	50	46	92	2	40	67-117
4-Isopropyltoluene	50	45	90	0	40	68-118
1,3-Dichlorobenzene	50	43	86	2	40	80-116

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

000269

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: V6ZLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,4-Dichlorobenzene	50	43	86	2	40	80-114
n-Butylbenzene	50	44	88	0	40	58-121
1,2-Dichlorobenzene	50	45	90	4	40	81-116
1,2-Dibromo-3-chloropro	50	53	106	8	40	71-126
1,2,4-Trichlorobenzene	50	39	78	5	40	67-114
Hexachlorobutadiene	50	36	72	0	40	50-111
Naphthalene	*50*	*47*	*94*	*4*	*40*	*58-133*
1,2,3-Trichlorobenzene	50	40	80	0	40	64-118
1-Chlorohexane	50	39	78	2	40	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 65 outside limits
Spike Recovery: 0 out of 130 outside limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: S1GLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Phenol	50		19	38	0-127
bis(2-Chloroethyl)Ether	50		55	110*	46-109
2-Chlorophenol	50		48	96	22-117
1,3-Dichlorobenzene	50		47	94	28-103
1,4-Dichlorobenzene	50		49	98	28-104
1,2-Dichlorobenzene	50		51	102	29-107
2-Methylphenol	50		43	86	40-104
2,2'-oxybis(1-Chloropro	50		56	112	10-134
4-Methylphenol	50		40	80	35-106
N-Nitroso-di-n-prop.(1)	50		49	98	44-122
Hexachloroethane	50		51	102	24-104
Nitrobenzene	50		51	102	47-112
Isophorone	50		48	96	48-118
2-Nitrophenol	50		50	100	29-122
2,4-Dimethylphenol	*50*		*47*	*94*	14-109
2,4-Dichlorophenol	50		52	104	31-122
1,2,4-Trichlorobenzene	50		50	100	33-108
Naphthalene	50		52	104	38-117
4-Chloroaniline	50		18	36	0-152
bis(2-Chloroethoxy)meth	50		54	108	49-112
Hexachlorobutadiene	50		48	96	28-109
4-Chloro-3-Methylphenol	50		52	104	48-117
2-Methylnaphthalene	50		54	108	43-113
Hexachlorocyclopentadie	50		43	86	34-103
2,4,6-Trichlorophenol	50		53	106	34-127
2,4,5-Trichlorophenol	50		55	110	32-131
2-Chloronaphthalene	50		52	104	47-116
2-Nitroaniline	50		54	108	51-120

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: S1GLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dimethylphthalate	50		54	108	53-124
Acenaphthylene	50		53	106	50-119
2,6-Dinitrotoluene	50		54	108	52-122
3-Nitroaniline	50		47	94	47-115
Acenaphthene	50		53	106	50-121
2,4-Dinitrophenol	50		51	102	0-144
4-Nitrophenol	50		18	36	0-160
Dibenzofuran	50		56	112	51-122
2,4-Dinitrotoluene	50		55	110	52-126
Diethylphthalate	50		54	108	53-126
4-Chlorophenyl-phenylet	50		55	110	50-124
Fluorene	50		55	110	52-125
4-Nitroaniline	50		49	98	47-117
4,6-Dinitro-2-methylphe	50		*53*	*106*	*3-151*
4-Bromophenyl-phenyleth	50		52	104	51-124
Hexachlorobenzene	50		53	106	52-124
Pentachlorophenol	50		54	108	5-125
Phenanthrene	50		55	110	52-128
Anthracene	50		56	112	52-127
Carbazole	50		57	114	54-126
Di-n-butylphthalate	50		56	112	56-132
Fluoranthene	50		56	112	53-130
Pyrene	50		53	106	53-131
Butylbenzylphthalate	50		51	102	54-128
3,3'-Dichlorobenzidine	50		51	102	41-117
Benzo(a)anthracene	50		53	106	56-124
Chrysene	50		53	106	53-123
bis(2-Ethylhexyl)phthal	50		52	104	56-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: S1GLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Di-n-octylphthalate	50		50	100	59-138
Benzo(b)fluoranthene	50		51	102	58-126
Benzo(k)fluoranthene	50		52	104	60-124
Benzo(a)pyrene	50		52	104	61-121
Indeno(1,2,3-cd)pyrene	50		60	120	23-152
Dibenzo(a,h)anthracene	50		58	116	60-122
Benzo(g,h,i)perylene	50		61	122	57-124

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: S1GLCS

COMPOUND	*SPIKE ADDED (ug/L)*	*LCSD CONCENTRATION (ug/L)*	*LCSD % REC #*	*% RPD #*	QC LIMITS RPD	QC LIMITS REC.
Phenol	50	18	36	5	40	0-127
bis(2-Chloroethyl)Ether	50	50	100	10	40	46-109
2-Chlorophenol	50	44	88	9	40	22-117
1,3-Dichlorobenzene	50	43	86	9	40	28-103
1,4-Dichlorobenzene	50	44	88	11	40	28-104
1,2-Dichlorobenzene	50	47	94	8	40	29-107
2-Methylphenol	50	40	80	7	40	40-104
2,2'-oxybis(1-Chloropro	50	51	102	9	40	10-134
4-Methylphenol	50	38	76	5	40	35-106
N-Nitroso-di-n-prop.(1)	50	47	94	4	40	44-122
Hexachloroethane	50	46	92	10	40	24-104
Nitrobenzene	50	48	96	6	40	47-112
Isophorone	50	47	94	2	40	48-118
2-Nitrophenol	50	48	96	4	40	29-122
2,4-Dimethylphenol	50	44	88	6	40	14-109
2,4-Dichlorophenol	50	50	100	4	40	31-122
1,2,4-Trichlorobenzene	50	46	92	8	40	33-108
Naphthalene	50	48	96	8	40	38-117
4-Chloroaniline	50	20	40	10	40	0-152
bis(2-Chloroethoxy)meth	50	51	102	6	40	49-112
Hexachlorobutadiene	50	45	90	6	40	28-109
4-Chloro-3-Methylphenol	50	51	102	2	40	48-117
2-Methylnaphthalene	50	51	102	6	40	43-113
Hexachlorocyclopentadie	50	39	78	10	40	34-103
2,4,6-Trichlorophenol	50	50	100	6	40	34-127
2,4,5-Trichlorophenol	50	51	102	8	40	32-131
2-Chloronaphthalene	50	49	98	6	40	47-116
2-Nitroaniline	50	50	100	8	40	51-120

(1) N-Nitroso-di-n-propylamine

 # Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: S1GLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dimethylphthalate	50	52	104	4	40	53-124
Acenaphthylene	50	50	100	6	40	50-119
2,6-Dinitrotoluene	50	51	102	6	40	52-122
3-Nitroaniline	50	47	94	0	40	47-115
Acenaphthene	50	51	102	4	40	50-121
2,4-Dinitrophenol	50	49	98	4	40	0-144
4-Nitrophenol	50	18	36	0	40	0-160
Dibenzofuran	50	53	106	6	40	51-122
2,4-Dinitrotoluene	50	52	104	6	40	52-126
Diethylphthalate	50	53	106	2	40	53-126
4-Chlorophenyl-phenylet	50	53	106	4	40	50-124
Fluorene	50	52	104	6	40	52-125
4-Nitroaniline	50	47	94	4	40	47-117
4,6-Dinitro-2-methylphe	50	52	104	2	40	3-151
4-Bromophenyl-phenyleth	50	50	100	4	40	51-124
Hexachlorobenzene	50	51	102	4	40	52-124
Pentachlorophenol	50	52	104	4	40	5-125
Phenanthrene	50	53	106	4	40	52-128
Anthracene	50	54	108	4	40	52-127
Carbazole	50	55	110	4	40	54-126
Di-n-butylphthalate	50	54	108	4	40	56-132
Fluoranthene	*50*	*54*	*108*	*4*	*40*	*53-130*
Pyrene	50	51	102	4	40	53-131
Butylbenzylphthalate	50	50	100	2	40	54-128
3,3'-Dichlorobenzidine	50	49	98	4	40	41-117
Benzo(a)anthracene	50	51	102	4	40	56-124
Chrysene	50	52	104	2	40	53-123
bis(2-Ethylhexyl)phthal	50	51	102	2	40	56-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: S1GLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Di-n-octylphthalate	50	48	96	4	40	59-138
Benzo(b)fluoranthene	50	48	96	6	40	58-126
Benzo(k)fluoranthene	50	50	100	4	40	60-124
Benzo(a)pyrene	50	49	98	6	40	61-121
Indeno(1,2,3-cd)pyrene	50	56	112	7	40	23-152
Dibenzo(a,h)anthracene	50	55	110	5	40	60-122
Benzo(g,h,i)perylene	50	58	116	5	40	57-124

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 63 outside limits
Spike Recovery: 1 out of 126 outside limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: S1QLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Phenol	50		39	78	0-127
bis(2-Chloroethyl)Ether	50		38	76	46-109
2-Chlorophenol	50		40	80	22-117
1,3-Dichlorobenzene	50		34	68	28-103
1,4-Dichlorobenzene	50		35	70	28-104
1,2-Dichlorobenzene	50		37	74	29-107
2-Methylphenol	50		44	88	40-104
2,2'-oxybis(1-Chloropro	*50*		*40*	*80*	*10-134*
4-Methylphenol	50		46	92	35-106
N-Nitroso-di-n-prop.(1)	50		41	82	44-122
Hexachloroethane	50		39	78	24-104
Nitrobenzene	50		42	84	47-112
Isophorone	50		39	78	48-118
2-Nitrophenol	50		42	84	29-122
2,4-Dimethylphenol	50		40	80	14-109
2,4-Dichlorophenol	50		45	90	31-122
1,2,4-Trichlorobenzene	50		39	78	33-108
Naphthalene	50		40	80	38-117
4-Chloroaniline	50		39	78	0-152
bis(2-Chloroethoxy)meth	50		44	88	49-112
Hexachlorobutadiene	*50*		*37*	*74*	*28-109*
4-Chloro-3-Methylphenol	50		47	94	48-117
2-Methylnaphthalene	50		43	86	43-113
Hexachlorocyclopentadie	50		18	36	34-103
2,4,6-Trichlorophenol	50		46	92	34-127
2,4,5-Trichlorophenol	50		48	96	32-131
2-Chloronaphthalene	50		42	84	47-116
2-Nitroaniline	50		43	86	51-120

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: S1QLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dimethylphthalate	50		45	90	53-124
Acenaphthylene	50		43	86	50-119
2,6-Dinitrotoluene	50		45	90	52-122
3-Nitroaniline	50		41	82	47-115
Acenaphthene	50		44	88	50-121
2,4-Dinitrophenol	50		45	90	0-144
4-Nitrophenol	50		46	92	0-160
Dibenzofuran	50		46	92	51-122
2,4-Dinitrotoluene	50		47	94	52-126
Diethylphthalate	50		46	92	53-126
4-Chlorophenyl-phenylet	50		47	94	50-124
Fluorene	50		46	92	52-125
4-Nitroaniline	50		40	80	47-117
4,6-Dinitro-2-methylphe	50		44	88	3-151
4-Bromophenyl-phenyleth	50		44	88	51-124
Hexachlorobenzene	50		46	92	52-124
Pentachlorophenol	50		46	92	5-125
Phenanthrene	50		46	92	52-128
Anthracene	50		46	92	52-127
Carbazole	50		46	92	54-126
Di-n-butylphthalate	50		47	94	56-132
Fluoranthene	50		46	92	53-130
Pyrene	50		45	90	53-131
Butylbenzylphthalate	50		43	86	54-128
3,3'-Dichlorobenzidine	50		31	62	41-117
Benzo(a)anthracene	50		44	88	56-124
Chrysene	50		43	86	53-123
bis(2-Ethylhexyl)phthal	50		45	90	56-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: S1QLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Di-n-octylphthalate	50		49	98	59-138
Benzo(b)fluoranthene	50		44	88	58-126
Benzo(k)fluoranthene	50		46	92	60-124
Benzo(a)pyrene	50		42	84	61-121
Indeno(1,2,3-cd)pyrene	50		41	82	23-152
Dibenzo(a,h)anthracene	50		41	82	60-122
Benzo(g,h,i)perylene	50		40	80	57-124

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: S1QLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	50	41	82	5	40	0-127
bis(2-Chloroethyl)Ether	50	40	80	5	40	46-109
2-Chlorophenol	50	41	82	2	40	22-117
1,3-Dichlorobenzene	50	37	74	8	40	28-103
1,4-Dichlorobenzene	50	38	76	8	40	28-104
1,2-Dichlorobenzene	50	40	80	8	40	29-107
2-Methylphenol	50	45	90	2	40	40-104
2,2'-oxybis(1-Chloropro	50	40	80	0	40	10-134
4-Methylphenol	50	47	94	2	40	35-106
N-Nitroso-di-n-prop.(1)	50	42	84	2	40	44-122
Hexachloroethane	50	42	84	7	40	24-104
Nitrobenzene	50	43	86	2	40	47-112
Isophorone	50	40	80	2	40	48-118
2-Nitrophenol	50	43	86	2	40	29-122
2,4-Dimethylphenol	50	43	86	7	40	14-109
2,4-Dichlorophenol	50	46	92	2	40	31-122
1,2,4-Trichlorobenzene	50	41	82	5	40	33-108
Naphthalene	50	42	84	5	40	38-117
4-Chloroaniline	50	35	70	11	40	0-152
bis(2-Chloroethoxy)meth	50	45	90	2	40	49-112
Hexachlorobutadiene	50	39	78	5	40	28-109
4-Chloro-3-Methylphenol	50	47	94	0	40	48-117
2-Methylnaphthalene	50	44	88	2	40	43-113
Hexachlorocyclopentadie	50	20	40	10	40	34-103
2,4,6-Trichlorophenol	50	47	94	2	40	34-127
2,4,5-Trichlorophenol	50	48	96	0	40	32-131
2-Chloronaphthalene	50	43	86	2	40	47-116
2-Nitroaniline	50	43	86	0	40	51-120

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: S1QLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dimethylphthalate	50	46	92	2	40	53-124
Acenaphthylene	50	44	88	2	40	50-119
2,6-Dinitrotoluene	50	46	92	2	40	52-122
3-Nitroaniline	50	40	80	2	40	47-115
Acenaphthene	50	46	92	4	40	50-121
2,4-Dinitrophenol	50	46	92	2	40	0-144
4-Nitrophenol	50	46	92	0	40	0-160
Dibenzofuran	50	48	96	4	40	51-122
2,4-Dinitrotoluene	50	48	96	2	40	52-126
Diethylphthalate	50	46	92	0	40	53-126
4-Chlorophenyl-phenylet	50	47	94	0	40	50-124
Fluorene	50	47	94	2	40	52-125
4-Nitroaniline	50	39	78	2	40	47-117
4,6-Dinitro-2-methylphe	50	47	94	6	40	3-151
4-Bromophenyl-phenyleth	50	46	92	4	40	51-124
Hexachlorobenzene	50	48	96	4	40	52-124
Pentachlorophenol	50	48	96	4	40	5-125
Phenanthrene	50	48	96	4	40	52-128
Anthracene	50	47	94	2	40	52-127
Carbazole	50	49	98	6	40	54-126
Di-n-butylphthalate	50	48	96	2	40	56-132
Fluoranthene	50	49	98	6	40	53-130
Pyrene	50	46	92	2	40	53-131
Butylbenzylphthalate	50	44	88	2	40	54-128
3,3'-Dichlorobenzidine	50	25	50	21	40	41-117
Benzo(a)anthracene	50	46	92	4	40	56-124
Chrysene	50	44	88	2	40	53-123
bis(2-Ethylhexyl)phthal	50	45	90	0	40	56-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix Spike - Sample No.: S1QLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Di-n-octylphthalate	50	49	98	0	40	59-138
Benzo(b)fluoranthene	50	46	92	4	40	58-126
Benzo(k)fluoranthene	50	47	94	2	40	60-124
Benzo(a)pyrene	50	44	88	5	40	61-121
Indeno(1,2,3-cd)pyrene	50	44	88	7	40	23-152
Dibenzo(a,h)anthracene	50	44	88	7	40	60-122
Benzo(g,h,i)perylene	50	43	86	7	40	57-124

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 63 outside limits
Spike Recovery: 0 out of 126 outside limits

COMMENTS:

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.
MW-6S

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic	75-125	477.1265		3.0000	U	455.00	104.9		P
Barium	75-125	9457.0250		74.0685	B	9100.00	103.1		P
Beryllium									NR
Cadmium	75-125	223.1675		2.0000	U	227.00	98.3		P
Calcium									NR
Chromium	75-125	924.2300		4.0215	B	910.00	101.1		P
Cobalt									NR
Copper	75-125	1233.7305		17.0520	B	1130.00	107.7		P
Iron									NR
Lead	75-125	435.9715		1.4850	B	455.00	95.5		P
Magnesium									NR
Manganese	75-125	3624.5865		1083.7115		2270.00	111.9		P
Mercury									NR
Nickel	75-125	2300.3785		5.1390	B	2270.00	101.1		P
Potassium									NR
Selenium	75-125	445.2390		8.0000	U	455.00	97.9		P
Silver	75-125	1159.3605		2.0000	U	1130.00	102.6		P
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc	75-125	2346.2270		26.6000	B	2270.00	102.2		P
Cyanide									NR

Comments:

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.
MW-6S

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Boron	75-125	2903.9960		556.1230		2250.00	104.3		P

Comments:

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.
12MW25S

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury	75-125	4.1232		0.1340	U	4.55 2.85	90.6 89.2		CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

MW-6D

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic		3.0000	U	3.0000	U			P
Barium		74.0685	B	91.4725	B	21.0		P
Beryllium								NR
Cadmium		2.0000	U	2.0000	U			P
Calcium								NR
Chromium		4.0215	B	5.9220	B	38.2		P
Cobalt								NR
Copper		17.0520	B	17.4755	B	2.5		P
Iron								NR
Lead		1.4850	B	2.2480	B	40.9		P
Magnesium								NR
Manganese		1083.7115		1290.5620		17.4		P
Mercury								NR
Nickel		5.1390	B	6.5865	B	24.7		P
Potassium								NR
Selenium		8.0000	U	8.0000	U			P
Silver		2.0000	U	2.0000	U			P
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc		26.6000	B	31.5320	B	17.0		P
Cyanide								NR

FORM VI - IN SW846

000286

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

MW-6D

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Boron	500.0	556.1230		666.1355		18.0		P

FORM VI - IN SW846

000287

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

12MW25D

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead								NR
Magnesium								NR
Manganese								NR
Mercury		0.1340	U	0.1380	U			CV
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

FORM VI - IN SW846

000288

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MW-19MS

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury	75-125	4.1370		0.1320	U	4.55 5.00	90.7 82.1		CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

Form V (Part 1) - IN SW846

000289

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

MW-19MD

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead								NR
Magnesium								NR
Manganese								NR
Mercury		0.1320	U	0.1380	U			CV
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

FORM VI - IN SW846

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK6V

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID: V6C2485 Lab Sample ID: V6B0829B

Date Analyzed: 08/30/02 *Time Analyzed: 0009*

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: V6

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V6VLCS	V6L0829B	V6C2486	0036
02	V6VLCSD	V6L0829C	V6C2487	0104
03	MW-6	A1243-01A	V6C2494	0416
04	MW-19M	A1243-02A	V6C2495	0444
05	MW-19D	A1243-03A	V6C2496	0511
06	MW-34	A1243-04A	V6C2497	0538
07	MW-40	A1243-05A	V6C2498	0606
08	MW-41	A1243-09A	V6C2500	0701
09	MW-35	A1243-11E	V6C2501	0728
10	20AUG02-GW-T	A1243-13A	V6C2503	0823
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

page 1 of 1

FORM IV VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK6V

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: V6B0829B

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2485

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK6V

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: V6B0829B

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2485

Level: (low/med) LOW Date Received:

% Moisture: not dec. Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: VBLK6V

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: V6B0829B

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2485

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0

000294

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.: VBLK6X

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID: V6C2512 Lab Sample ID: V6B0830A

Date Analyzed: 08/30/02 Time Analyzed: 1254

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: V6

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V6XLCS	V6L0830A	V6C2513	1321
02	MW-7	A1243-08E	V6C2516	1445
03	MW-28	A1243-12A	V6C2517	1512
04	MW-34DL	A1243-04ADL	V6C2527	1952
05	MW-40DL	A1243-05ADL	V6C2528	2020
06	MW-35DL	A1243-11EDL	V6C2529	2047
07	13MW11	A1243-17A	V6C2530	2115
08	13MW33	A1243-18A	V6C2531	2142
09	TMW42	A1243-19A	V6C2532	2210
10	EMW36	A1243-20A	V6C2533	2238
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

FORM IV VOA OLM03.0

000295

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: VBLK6X

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: V6B0830A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2512

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

000296

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: VBLK6X

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: V6B0830A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2512

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000297

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK6X

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: V6B0830A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2512

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK6Z

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID: V6C2543 Lab Sample ID: V6B0830C

Date Analyzed: 08/31/02 Time Analyzed: 0123

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: V6

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V6ZLCS	V6L0830C	V6C2545	0218
02	V6ZLCSD	V6L0830C	V6C2546	0245
03	TMW43	A1243-21A	V6C2547	0312
04	6MW9	A1243-23A	V6C2548	0340
05	6MW29	A1243-24A	V6C2549	0407
06	2MW26	A1243-25A	V6C2550	0434
07	2MW13	A1243-26A	V6C2551	0502
08	3MW27	A1243-28A	V6C2552	0529
09	7MW8	A1243-29A	V6C2553	0557
10	MW15	A1243-30A	V6C2554	0624
11	7MW30	A1243-31A	V6C2555	0652
12	12MW17	A1243-33A	V6C2556	0720
13	MW14	A1243-34A	V6C2557	0747
14	MW44	A1243-35A	V6C2558	0815
15	MW45	A1243-36A	V6C2559	0843
16	MW37	A1243-37A	V6C2560	0910
17	MW10	A1243-38A	V6C2561	0938
18	MW16	A1243-39A	V6C2562	1005
19	12MW20	A1243-40A	V6C2563	1032
20	12MW25	A1243-41A	V6C2564	1100
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK6Z

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: V6B0830C

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2543

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK6Z

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: V6B0830C

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2543

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK6Z

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: V6B0830C

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C2543

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0

000302

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
SBLK1G

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID: S1D0586 Lab Sample ID: S0821-BW1

Instrument ID: S1 Date Extracted: 08/21/02

Matrix: (soil/water) WATER Date Analyzed: 08/27/02

Level: (low/med) LOW Time Analyzed: 2312

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	S1GLCS	S0821-LW1	S1D0570	08/27/02
02	S1GLCSD	S0821-LW1D	S1D0571	08/27/02
03	MW-34	A1243-04D	S1D0576	08/27/02
04	MW-35	A1243-11F	S1D0577	08/27/02
05	MW-26	A1243-16E	S1D0578	08/27/02
06	MW-13	A1243-15E	S1D0579	08/27/02
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

page 1 of 1

FORM IV SV

000303

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK1G

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: S0821-BW1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0586

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/21/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	*2-Chlorophenol*	*10*	*U*
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	*Naphthalene*	*10*	*U*
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	*Acenaphthene*	*10*	*U*

FORM I SV-1

000304

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK1G

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Matrix: (soil/water) WATER Lab Sample ID: S0821-BW1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0586

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/21/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

000305

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SBLK1G

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: S0821-BW1
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0586
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/21/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC

000305

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
SBLK1Q

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Lab File ID: S1D0678 Lab Sample ID: S0825-BW1
Instrument ID: S1 Date Extracted: 08/25/02
Matrix: (soil/water) WATER Date Analyzed: 08/31/02
Level: (low/med) LOW Time Analyzed: 1253

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	S1QLCS	S0825-LW1	S1D0679	08/31/02
02	S1QLCSD	S0825-LW1D	S1D0680	08/31/02
03	13MW11	A1243-17E	S1D0681	08/31/02
04	13MW33	A1243-18E	S1D0682	08/31/02
05	BMW36	A1243-20E	S1D0683	08/31/02
06	3MW6	A1243-22A	S1D0684	08/31/02
07	3MW19M	A1243-27A	S1D0685	08/31/02
08	3MW27	A1243-28E	S1D0686	08/31/02
09	12GWMW17	A1243-33E	S1D0687	08/31/02
10	GWMW37	A1243-37F	S1D0688	08/31/02
11	12GWMW20	A1243-40F	S1D0689	08/31/02
12	12GWMW25	A1243-41F	S1D0690	08/31/02
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

page 1 of 1

FORM IV SV

000306

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
SBLK1Q

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Lab File ID: S1D0678 Lab Sample ID: S0825-BW1
Instrument ID: S1 Date Extracted: 08/25/02
Matrix: (soil/water) WATER Date Analyzed: 08/31/02
Level: (low/med) LOW Time Analyzed: 1253

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB File Id	DATE ANALYZED
01	S1QLCS	S0825-LW1	S1D0679	08/31/02
02	S1QLCSD	S0825-LW1D	S1D0680	08/31/02
03	13MW11	A1243-17E	S1D0681	08/31/02
04	13MW33	A1243-18E	S1D0682	08/31/02
05	BMW36	A1243-20E	S1D0683	08/31/02
06	3MW6	A1243-22A	S1D0684	08/31/02
07	3MW19M	A1243-27A	S1D0685	08/31/02
08	3MW27	A1243-28E	S1D0686	08/31/02
09	12GWMW17	A1243-33E	S1D0687	08/31/02
10	GWMW37	A1243-37F	S1D0688	08/31/02
11	12GWMW20	A1243-40F	S1D0689	08/31/02
12	12GWMW25	A1243-41F	S1D0690	08/31/02
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

page 1 of 1

FORM IV SV

000307

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK1Q

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: S0825-BW1
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0678
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

000308

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK1Q

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: S0825-BW1
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0678
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SBLK1Q

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243
Matrix: (soil/water) WATER Lab Sample ID: S0825-BW1
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S1D0678
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 08/25/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 08/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract: ___
Lab Code: MITKEM Case No.: ___ SAS No.: _____ SDG No.: A1243A_
Preparation Blank Matrix (soil/water): WATER
Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Barium	3.0	U	3.0	U	3.0	U	3.0	U	10.792	B	P
Beryllium											
Cadmium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Calcium											
Chromium	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Cobalt											
Copper	13.6	B	2.4	B	2.0	U	2.0	U	18.226	B	P
Iron											
Lead	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Magnesium											
Manganese	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.100	U	CV
Nickel	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Potassium											
Selenium	8.0	U	8.0	U	8.0	U	8.0	U	8.000	U	P
Silver	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Sodium											
Thallium											
Vanadium											
Zinc	8.0	U	8.0	U	8.0	U	8.0	U	8.000	U	P
Cyanide											

FORM III - IN SW846

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract: ___
Lab Code: MITKEM Case No.: ___ SAS No.: _____ SDG No.: A1243A_
Preparation Blank Matrix (soil/water): WATER
Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Boron	12.2	B	-1.0	B	-3.9	B	-6.1	B	-16.011	B	P

FORM III - IN SW846

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243A

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead											
Magnesium											
Manganese											
Mercury			0.1	U							CV
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Barium	3.0	U	3.0	U	3.2	B	3.0	U	3.000	U	P
Beryllium											
Cadmium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Calcium											
Chromium	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Cobalt											
Copper	-2.5	B	-5.2	B	-5.8	B	-6.0	B	2.000	U	P
Iron											
Lead	-2.8	B	-3.1	B	-3.2	B	-3.2	B	-2.835	B	P
Magnesium											
Manganese	2.0	U	2.8	B	2.4	B	2.0	U	2.396	B	P
Mercury	0.1	U	0.1	U	0.1	U			0.100	U	CV
Nickel	0.5	B	0.6	B	0.8	B	0.5	U	0.707	B	P
Potassium											
Selenium	8.0	U	8.0	U	8.0	U	8.0	U	8.000	U	P
Silver	-2.8	B	-2.4	B	-2.7	B	-3.0	B	-2.792	B	P
Sodium											
Thallium											
Vanadium											
Zinc	-28.4	B	-28.7	B	-28.4	B	-28.8	B	-28.110	B	P
Cyanide											

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243B

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Boron	130.0	U	130.0	U	130.0	U	130.0	U	130.000	U	P

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID (Standard): V6C2483 Date Analyzed: 08/29/02

Instrument ID: V6 Time Analyzed: 2314

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1 AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	1775039	7.03	1367625	10.77	778408	13.59
	UPPER LIMIT	3550078	7.53	2735250	11.27	1556816	14.09
	LOWER LIMIT	887520	6.53	683813	10.27	389204	13.09
	EPA SAMPLE NO.						
01	VBLK6V	1670782	7.03	1227923	10.77	671807	13.59
02	V6VLCS	1737509	7.03	1342077	10.77	775288	13.59
03	V6VLCSD	1893422	7.03	1444788	10.77	832066	13.59
04	MW-6	1449755	7.03	1039520	10.77	573524	13.59
05	MW-19M	1486249	7.03	1049813	10.77	578695	13.59
06	MW-19D	1387408	7.03	979245	10.77	531259	13.59
07	MW-34	1492921	7.03	1050864	10.77	563243	13.59
08	MW-40	1478761	7.03	1034874	10.77	556320	13.59
09	MW-41	1297726	7.03	909607	10.77	471482	13.59
10	MW-35	1327277	7.03	919487	10.77	493347	13.59
11	20AUG02-GW-T	1290485	7.03	908977	10.77	477122	13.59
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID (Standard): V6C2511 Date Analyzed: 08/30/02

Instrument ID: V6 Time Analyzed: 1222

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	1441750	7.03	1107504	10.77	628153	13.59
UPPER LIMIT	2883500	7.53	2215008	11.27	1256306	14.09
LOWER LIMIT	720875	6.53	553752	10.27	314077	13.09
EPA SAMPLE NO.						
01 VBLK6X	1372100	7.03	963267	10.77	501323	13.59
02 V6XLCS	1508011	7.03	1145752	10.77	589910	13.59
03 MW-7	1290654	7.03	907199	10.77	494985	13.59
04 MW-28	1224945	7.03	852316	10.77	469731	13.59
05 MW-34DL	1198576	7.03	828632	10.77	436196	13.59
06 MW-40DL	1200064	7.03	825409	10.77	424011	13.59
07 MW-35DL	1233369	7.03	855212	10.77	441510	13.59
08 13MW11	1213591	7.03	848229	10.77	464250	13.59
09 13MW33	1281775	7.03	886575	10.77	462651	13.59
10 TMW42	1241466	7.03	851093	10.77	439929	13.59
11 EMW36	1227126	7.03	843259	10.77	433488	13.59
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID (Standard): V6C2541 Date Analyzed: 08/31/02

Instrument ID: V6 Time Analyzed: 0028

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	1292136	7.03	1006641	10.76	592504	13.59
UPPER LIMIT	2584272	7.53	2013282	11.26	1185008	14.09
LOWER LIMIT	646068	6.53	503321	10.26	296252	13.09
EPA SAMPLE NO.						
01 VBLK6Z	1357126	7.03	948156	10.77	498453	13.59
02 V6ZLCS	1419905	7.03	1094638	10.77	652541	13.59
03 V6ZLCSD	1483039	7.03	1139196	10.77	665679	13.59
04 TMW43	1386951	7.03	967729	10.77	498551	13.59
05 6MW9	1305321	7.03	910569	10.77	477794	13.59
06 6MW29	1340730	7.03	929832	10.77	489178	13.59
07 2MW26	1306379	7.03	914122	10.77	476871	13.59
08 2MW13	1288201	7.03	902877	10.77	471123	13.59
09 3MW27	1227211	7.02	840843	10.77	442771	13.59
10 7MW8	1281150	7.03	890213	10.77	464518	13.59
11 MW15	1283607	7.03	891614	10.77	466306	13.59
12 7MW30	1268836	7.03	877875	10.77	461669	13.59
13 12MW17	1285754	7.03	887066	10.77	457361	13.59
14 MW14	1267411	7.03	862785	10.77	453921	13.59
15 MW44	1218226	7.02	828133	10.76	423125	13.59
16 MW45	1174718	7.03	805323	10.77	405858	13.59
17 MW37	1211008	7.03	824864	10.76	418811	13.59
18 MW10	1218695	7.03	841558	10.77	427008	13.59
19 MW16	1097258	7.03	745408	10.77	377420	13.59
20 12MW20	1158940	7.03	797910	10.77	416456	13.59
21 12MW25	1234227	7.03	854128	10.77	456323	13.59
22						

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID (Standard): S1D0565 Date Analyzed: 08/27/02

Instrument ID: S1 Time Analyzed: 1013

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	227020	7.36	823839	9.76	386858	13.26
UPPER LIMIT	454040	7.86	1647678	10.26	773716	13.76
LOWER LIMIT	113510	6.86	411920	9.26	193429	12.76
EPA SAMPLE NO.						
01 S1GLCS	185761	7.36	675527	9.76	314590	13.26
02 S1GLCSD	193126	7.36	697479	9.76	335008	13.26
03 MW-34	203519	7.36	756379	9.75	353946	13.25
04 MW-35	178319	7.36	645954	9.75	308451	13.25
05 MW-26	196369	7.36	738834	9.75	346699	13.25
06 MW-13	196008	7.35	741461	9.75	352865	13.25
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID (Standard): S1D0565 Date Analyzed: 08/27/02

Instrument ID: S1 Time Analyzed: 1013

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	631873	16.24	482505	21.60	363967	24.24
UPPER LIMIT	1263746	16.74	965010	22.10	727934	24.74
LOWER LIMIT	315937	15.74	241253	21.10	181984	23.74
EPA SAMPLE NO.						
01 S1GLCS	520722	16.24	395173	21.59	298458	24.24
02 S1GLCSD	553893	16.24	424618	21.60	325664	24.25
03 MW-34	578991	16.24	456172	21.57	324423	24.24
04 MW-35	496351	16.24	384645	21.57	274699	24.23
05 MW-26	562320	16.24	430299	21.58	301633	24.24
06 MW-13	562473	16.24	422622	21.58	291136	24.23
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID (Standard): S1D0585 Date Analyzed: 08/27/02

Instrument ID: S1 Time Analyzed: 2232

	IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
12 HOUR STD	226214	7.35	827554	9.75	391734	13.25
UPPER LIMIT	452428	7.85	1655108	10.25	783468	13.75
LOWER LIMIT	113107	6.85	413777	9.25	195867	12.75
EPA SAMPLE NO.						
01 SBLK1G	181821	7.35	668993	9.75	315455	13.25
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID (Standard): S1D0585 Date Analyzed: 08/27/02

Instrument ID: S1 Time Analyzed: 2232

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	637270	16.24	477198	21.59	322322	24.24
UPPER LIMIT	*1274540*	*16.74*	*954396*	*22.09*	*644644*	*24.74*
LOWER LIMIT	318635	15.74	238599	21.09	161161	23.74
EPA SAMPLE NO.						
01 SBLK1G	512534	16.23	372136	21.57	235411	24.23
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID (Standard): *S1D0677* *Date Analyzed: 08/31/02*

Instrument ID: S1 Time Analyzed: 1156

	IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
12 HOUR STD	218891	6.91	820362	9.28	383069	12.76
UPPER LIMIT	437782	7.41	1640724	9.78	766138	13.26
LOWER LIMIT	109446	6.41	410181	8.78	191535	12.26
EPA SAMPLE NO.						
01 SBLK1Q	183487	6.89	704050	9.27	330267	12.75
02 S1QLCS	183993	6.90	687697	9.27	329209	12.75
03 S1QLCSD	*181568*	*6.90*	*685962*	*9.27*	*324685*	*12.75*
04 13MW11	173092	6.89	649002	9.27	309424	12.75
05 13MW33	155229	6.89	588923	9.27	280270	12.75
06 EMW36	183448	6.90	685815	9.27	328222	12.74
07 3MW6	179948	6.90	678266	9.27	327695	12.75
08 3MW19M	213649	6.91	805813	9.27	384073	12.75
09 3MW27	226662	6.90	837970	9.27	404972	12.75
10 12GWMW17	253964	6.90	952878	9.27	457157	12.75
11 GWMW37	255960	6.90	957753	9.27	458761	12.74
12 12GWMW20	268923	6.89	1008797	9.27	484200	12.75
13 12GWMW25	275127	6.90	1021689	9.27	490752	12.75
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1243

Lab File ID (Standard): S1D0677 Date Analyzed: 08/31/02

Instrument ID: S1 Time Analyzed: 1156

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	625676	15.72	432797	21.03	270004	23.67
UPPER LIMIT	1251352	16.22	865594	21.53	540008	24.17
LOWER LIMIT	312838	15.22	216399	20.53	135002	23.17
EPA SAMPLE NO.						
01 SBLK1Q	519685	15.71	370945	21.02	251464	23.66
02 S1QLCS	552910	15.72	403179	21.03	265463	23.67
03 S1QLCSD	531994	15.72	392010	21.04	256248	23.67
04 13MW11	501436	15.71	357351	21.02	234566	23.67
05 13MW33	438222	15.71	299833	21.02	194203	23.66
06 EMW36	517245	15.71	369107	21.03	243097	23.66
07 3MW6	519301	15.71	371654	21.02	226616	23.66
08 3MW19M	607885	15.72	431285	21.02	257517	23.67
09 3MW27	636110	15.72	452524	21.02	281347	23.67
10 12GWMW17	721212	15.72	512358	21.02	314074	23.67
11 GWMW37	732392	15.71	542037	21.03	368363	23.67
12 12GWMW20	790210	15.72	580594	21.03	392118	23.67
13 12GWMW25	806308	15.72	575717	21.02	348360	23.67
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

MITKEM CORPORATION

* Data Summary Pack *

Analytical Data Package for HRP Associates, Inc.

Client Project: Former Howe Furniture Site

Mitkem Project ID: A1627

December 18, 2002

SDG Narrative

Mitkem Corporation submits the enclosed data package in response to HRP Associates' Former Howe Furniture Site project. Under this deliverable, analysis results are presented for fifty-nine soil samples that were received at Mitkem on November 8, 2002. Analyses were performed per specifications in the project's contract and the chain of custody forms following discussion with the client. Ferrous iron analysis was requested on several soil samples. Per discussion with the client, this analysis is not performed on soil matrix samples. Sample identifications were shortened where necessary due to limitations in the software used to generate CLP-type report forms. A table of sample identifications showing full client ID, shortened client ID and laboratory ID follows this narrative.

The analyses were performed according to EPA SW-846 and State of Connecticut protocols and reported in a CLP-format deliverable. Results for extractable total petroleum hydrocarbons are reported in standard Mitkem format with supporting raw data. Per method requirements, QC limits are updated on a regular basis. Therefore, QC limits may have changed from those provided when the project QAPP was written. The current valid QC limits are listed on the applicable data reporting forms.

Samples AOC2BB1 and AOC2BB2 were empty soil sample jars provided as bottle blanks. These were rinsed repeatedly with water to provide sufficient volume for aqueous sample analyses. These rinsings were performed when required for sample preparation.

The following observation and/or deviations are observed for the following analyses:

1. Overall Observation:

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting.
- M2 peak co-elution.
- M3 rising or falling baseline.
- M4 retention time shift.
- M5 miscellaneous – under this category, the justification is explained.

The enclosed report includes the originals of all data with the exception of logbook pages and certain initial calibrations. Photocopies of logbook pages are included, with the originals maintained on file at the laboratory. The originals of initial calibrations that are shared among several cases are maintained on file at the laboratory, with photocopies included in the data package.

2. Volatile Analysis:

Surrogate recovery: recoveries were within the QC limits.

Lab control sample/lab control sample duplicate: spike recoveries were within the QC limits.

Sample analysis: samples 13SSTB3435 and 13SSTB2413 were reanalyzed at dilution due to concentrations exceeding the calibration range of the instrument. The medium-level methanol preserved sample aliquots were used for these two dilutions. The peak area for two internal standards were outside of the QC limits in the initial analysis of sample 13SSTB2413, but within the QC limits in the dilution analysis. The peak area for one internal standard in sample 10TB1068 was outside of the QC limits. Please note that the recoveries of all internal standards were within the QC limits for this analysis. No other unusual observation was made for the analyses.

3. Semivolatile Analysis:

Surrogate recovery: recoveries were within the QC limits.

Lab control sample/lab control sample duplicate: spike recoveries were within the QC limits.

Sample analysis: no unusual observation was made for the analyses. Alkanes were determined as tentatively identified compounds in sample 13SSTB3435. These are reported on the Alkane Narrative Report which follows this narrative. Please note that bottle blanks AOC2BB1 and AOC2BB2 were prepared (rinsed with water) the day they were extracted; holding times for these two samples are not calculated from date of sample collection or receipt.

4. PCB Analysis (Total):

Results for PCBs on total (mass) samples are reported following the first green report section divider. Results for SPLP PCB analyses are reported in a separate section of the report.

Surrogate recovery: recoveries were within the QC limits with the exception of one surrogate on one GC column for sample 2SSTB4246, which was above the upper QC limit.

Lab control sample/lab control sample duplicate: spike recoveries were within the QC limits. The spike amount for B3LCS and its duplicate LCS were lower than normal as this batch included samples from another Mitkem program requiring lower spike concentrations.

Sample analysis: no unusual observation was made for the analyses. Please note that bottle blanks AOC2BB1 and AOC2BB2 were prepared (rinsed with water) the day they were extracted; holding times for these two samples are not calculated from date of sample collection or receipt.

5. PCB Analysis (SPLP):

Results for SPLP PCBs are reported following the second green report section divider. Results for total PCBs (on a mass basis) are reported in a separate section of the report.

Surrogate recovery: recoveries were within the QC limits with the exception of low recoveries for one surrogate on one GC column for samples 13SSTB2124 and 2SSTB4802.

Lab control sample/lab control sample duplicate: spike recoveries were within the QC limits.

Sample analysis: no unusual observation was made for the analyses.

6. Metals Analysis:

Results for all metals analyses are reported in one section of this report. Data sheets for SPLP metals are identified as such in the Comments line at the bottom of the Form 1.

Lab control sample: spike recoveries were within the QC limits.

Sample analysis: no unusual observation was noted for the analysis.

7. Connecticut Extractable Total Petroleum Hydrocarbons (ETPH):

Surrogate recovery: recoveries were within QC limits of 16% to 127% for soil samples and 20% to 115% for water samples. Please note that relatively low surrogate recoveries are typical for aqueous sample analysis using this method.

Lab control sample: spike recoveries were within the QC limits of 30% to 109% for soil samples and 27% to 134% for water samples.

Sample analysis: samples 12SSTB1302, 12SSTB1102 and 12SSTB902 were concentrated to a final extract volume of 10ml due to increasing color and viscosity. This is essentially equivalent to a 10X dilution. Sample 12SSTB1224 was analyzed at a 10X dilution. Several samples contained a relatively large single compound peak that eluted after the ETPH range. As this peak was outside of the ETPH range, it is not included in the ETPH concentration reported for any sample. As this peak was somewhat unusual, *the extract for sample 13SSTB3602* was analyzed by GC/MS in an attempt to identify the compound. The MS library search did not result in any close or reliable compound matches. Raw library search results follow the ETPH raw data for this sample. Samples AOC2BB1 and AOC2BB2 were empty soil sample jars provided as bottle blanks. These were rinsed with water to provide sufficient volume for aqueous sample analyses. The original rinsings, performed on November 13, 2002, were mistakenly spiked with the wrong surrogate standard solution. New rinsings were performed on November 25, 2002 for ETPH analysis. No other unusual observation was made for the analyses.

8. Subcontracted Analyses:

The analyses Total Organic Carbon were subcontracted to Severn Trent Laboratories of Shelton, CT. TOC results are not available at this time, but will be submitted as an addendum to this report when received from STL.

The pages in this report have been numbered consecutively, starting from this narrative and ending with a page saying only "Last Page of Data Report".

I certify that this data package is in compliance, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Edward A. Lawler
Laboratory Operations Manager
12/18/02

ALKANE NARRATIVE REPORT
Report date : 11/23/2002
SDG: A1627

Client Sample ID: 13SSTB3435 Lab Sample ID: A1627-29C File ID: S3C0340

Compound	RT	Est. Conc.	Q
Branched Alkane	21.96	140	J
Straight-chained Alkane	24.46	170	J
Straight-chained Alkane	25.92	1000	J

*Mitkem and Client Sample ID Summary Report**

Mitkem Workorder: A1627
Client Name: HRP Associates

Mitkem Sample ID	*Reported Client Sample ID*	*Full Client Sample ID*
A1627-01A	12TB845	04 NOV 02 AOC1+12-TB-8(4-6)
A1627-02A	12TB1524	04 NOV 02 AOC1+12-TB-15(2-4)
A1627-02B	12TB1524	04 NOV 02 AOC1+12-TB-15(2-4)
A1627-02C	12TB1524	04 NOV 02 AOC1+12-TB-15(2-4)
A1627-02D	12TB1524	04 NOV 02 AOC1+12-TB-15(2-4)
A1627-03A	12TB1068	04 NOV 02 AOC1+12TB-10(5-8)
A1627-03B	12TB1068	04 NOV 02 AOC1+12TB-10(5-8)
A1627-03C	12TB1068	04 NOV 02 AOC1+12TB-10(5-8)
A1627-03D	12TB1068	04 NOV 02 AOC1+12TB-10(5-8)
A1627-04A	12SSD1A46	04 NOV 02 AOC1+12-SS-D1A(4-6)
A1627-05A	12SSD1B46	04 NOV 02 AOC1+12-SS-D1B(4-6)
A1627-06A	AOC112T1	04 NOV 02 AOC1+12T-1
A1627-07A	AOC112E1	04 NOV 02 AOC1+12E-1
A1627-07B	AOC112E1	04 NOV 02 AOC1+12E-1
A1627-07C	AOC112E1	04 NOV 02 AOC1+12E-1
A1627-07D	AOC112E1	04 NOV 02 AOC1+12E-1
A1627-08A	12SSTB1824	04 NOV 02 AOC1+12-SS-TB-18(2-4)
A1627-09A	12SSTB1802	04 NOV 02 AOC1+12-SS-TB-18(0-2)
A1627-10A	12SSTB1702	04 NOV 02 AOC1+12-SS-TB-17(0-2)
A1627-11A	12SSTB1602	04 NOV 02 AOC1+12-SS-TB-14(2-4)
A1627-12A	12SSTB1424	04 NOV 02 AOC1+12-SS-TB-14(2-4)
A1627-13A	AOC2E3	06 NOV 02-AOC2-E3
A1627-13B	AOC2E3	06 NOV 02-AOC2-E3
A1627-13C	AOC2E3	06 NOV 02-AOC2-E3
A1627-13D	AOC2E3	06 NOV 02-AOC2-E3
A1627-14A	13SSTB22345	05 NOV 02-AOC13-SS-TB-23(2-4.5)
A1627-15A	13SSTB2513	05 NOV 02-AOC13-SS-TB-25(1-3)
A1627-15A	13SSTB2635	05 NOV 02-AOC13-SS-TB-26(3-5)
A1627-17A	13SSTB2702	05 NOV 02-AOC13-SS-TB-27(0-2)
A1627-18A	13SSTB2813	05 NOV 02-AOC13-SS-TB-28(1-3)
A1627-19A	13SSTB2902	05 NOV 02-AOC13-SS-TB-29(0-2)
A1627-20A	13SSTB3013	05 NOV 02-AOC13-SS-TB-30(1-3)
A1627-21A	13SSTB3213	05 NOV 02-AOC13-SS-TB-32(1-3)
A1627-22A	13SSTB3335	05 NOV 02-AOC13-SS-TB-33(3-5)
A1627-23A	13SSTB3524	05 NOV 02-AOC13-SS-TB-35(2-4)
A1627-24A	13SSTB3602	05 NOV 02-AOC13-SS-TB-36(0-2)
A1627-25A	AOC13E2	05 NOV 02 AOC13E-2
A1627-25B	AOC13E2	05 NOV 02 AOC13E-2
A1627-25C	AOC13E2	05 NOV 02 AOC13E-2
A1627-25D	AOC13E2	05 NOV 02 AOC13E-2

** If client sample ID has not been truncated, the full client sample ID is listed in the column labeled "Reported Client Sample ID"*

Mitkem Sample ID	Reported Client Sample ID	Full Client Sample ID
A1627-26A	13SSD2A35	05 NOV 02AOC13-SS-D2A(3-5)
A1627-27A	13SSD2B35	05 NOV 02 AOC13-SS-D2B(3-5)
A1627-28A	13SSTB2435	05 NOV 02 AOC13-SS-TB24(3-5)
A1627-29A	13SSTB3435	05 NOV 02 AOC13-SS-TB-34(3-5)
A1627-29B	13SSTB3435	05 NOV 02 AOC13-SS-TB-34(3-5)
A1627-29C	13SSTB3435	05 NOV 02 AOC13-SS-TB-34(3-5)
A1627-29D	13SSTB3435	05 NOV 02 AOC13-SS-TB-34(3-5)
A1627-30A	13SSTB2413	05 NOV 02 AOC13-SS-TB-24(1-3)
A1627-30B	13SSTB2413	05 NOV 02 AOC13-SS-TB-24(1-3)
A1627-30C	13SSTB2413	05 NOV 02 AOC13-SS-TB-24(1-3)
A1627-30D	13SSTB2413	05 NOV 02 AOC13-SS-TB-24(1-3)
A1627-31A	13SSTB3124	05 NOV 02 AOC13-SS-TB-31(2-4)
A1627-31B	*13SSTB3124*	*05 NOV 02 AOC13-SS-TB-31(2-4)*
A1627-31C	13SSTB3124	05 NOV 02 AOC13-SS-TB-31(2-4)
A1627-31D	13SSTB3124	05 NOV 02 AOC13-SS-TB-31(2-4)
A1627-32A	13SSTB1902	04 NOV 02 AOC13-SS-TB-19(0-2)
A1627-33A	13SSTB20235	04 NOV 02 AOC13-SS-TB-20(2-3.5)
A1627-34A	13SSTB2123	04 NOV 02 AOC13-SS-TB-21(2-3)
A1627-35A	13SSTB2202	05 NOV 02 AOC13-SS-TB-22(0-2)
A1627-36A	AOC2BB1	06 NOV02-AOC2-BB-1
A1627-36B	AOC2BB1	06 NOV02-AOC2-BB-1
A1627-36C	AOC2BB1	06 NOV02-AOC2-BB-1
A1627-37A	AOC2BB2	07 NOV02-AOC2-BB-2
A1627-37B	AOC2BB2	07 NOV02-AOC2-BB-2
A1627-37C	AOC2BB2	07 NOV02-AOC2-BB-2
A1627-38A	2SSTB3746	06 NOV02-AOC2-SS-TB-37(4-6)
A1627-39A	2SSTB3824	06 NOV02-AOC2-SS-TB-38(2-4)
A1627-40A	2SSTB3902	06 NOV02-AOC2-SS-TB-39(0-2)
A1627-41A	2SSTB40465	06 NOV02-AOC2-SS-TB-40(4-6.5)
A1627-42A	2SSTB4724	07 NOV02-AOC2-SS-TB-47(2-4)
A1627-43A	2SSTB4802	07 NOV02-AOC2-SS-TB-48(0-2)
A1627-44A	12SSTB1302	04 NOV02-AOC1+12-SS-TB-13(0-2)
A1627-45A	12SSTB1224	04 NOV02-AOC1+12-SS-TB-12(2-4)
A1627-46A	12SSTB1102	04 NOV02-AOC1+12-SS-TB-11(0-2)
A1627-47A	12SSTB902	04 NOV02-AOC1+12-SS-TB-9(0-2)
A1627-49A	2SSTB41465	07 NOV02-AOC2-SS-TB41(4-6.5)
A1627-50A	2SSTB4246	07 NOV02-AOC2-SS-TB42(4-6)
A1627-51A	AOC2E4	07 NOV02-AOC2-E4
A1627-51B	AOC2E4	07 NOV02-AOC2-E4
A1627-51C	AOC2E4	07 NOV02-AOC2-E4
A1627-51D	AOC2E4	07 NOV02-AOC2-E4
A1627-52A	2SSD3A465	07 NOV02-AOC2-SS-D3A(4-6.5)
A1627-53A	2SSD3B465	07 NOV02-AOC2-SS-D3B(4-6.5)
A1627-54A	2SSD4A46	07 NOV02-AOC2-SS-D4A(4-6)

** If client sample ID has not been truncated, the full client sample ID is listed in the column labeled "Reported Client Sample ID"*

Mitkem Sample ID	Reported Client Sample ID	Full Client Sample ID
A1627-55A	2SSD4B46	07 NOV02-AOC2-SS-D4B(4-6)
A1627-56A	2SSTB4302	07 NOV02-AOC2-SS-TB-43(0-2)
A1627-57A	2SSTB4402	07 NOV02-AOC2-SS-TB-44(0-2)
A1627-58A	2SSTB4524	07 NOV02-AOC2-SS-TB-45(2-4)
A1627-59A	2SSTB4602	07 NOV02-AOC2-SS-TB-46(0-2)

** If client sample ID has not been truncated, the full client sample ID is listed in the column labeled "Reported Client Sample ID"*

MITKEM CORPORATION

Analysis Report: Extractable Total Petroleum Hydrocarbons

Client: HRP Associates
Analysis: CT-ETPH
Matrix: Soil

Concentration in: mg/kg, dry weight basis
Date Extracted: 11/14/02

Lab ID	Client ID	Result	Reporting Limit	% Solid	p-Terphenyl Surrogate Recovery %	Analysis Date
A1627-01A	12TB846	22	3	81	88	11/21/02
A1627-02A	12TB1524	23	3	87	93	11/21/02
A1627-03A	12TB1068	6	3	91	93	11/21/02
A1627-04A	12SSD1A46	12	3	80	86	11/21/02
A1627-05A	12SSD1B46	10	3	83	88	11/21/02
A1627-08A	12SSTB1824	260	4	61	94	11/21/02
A1627-10A	12SSTB1702	46	3	77	94	11/21/02
A1627-11A	12SSTB1602	8	3	81	93	11/21/02
A1627-12A	12SSTB1424	3	3	88	89	11/21/02
A1627-14A	13SSTB23245	ND	3	89	84	11/21/02
A1627-15A	13SSTB2513	ND	3	80	91	11/21/02
A1627-16A	13SSTB2635	ND	3	89	90	11/21/02
A1627-17A	13SSTB2702	46	3	91	90	11/21/02
A1627-18A	13SSTB2813	3	3	84	86	11/21/02
A1627-19A	13SSTB2902	36	3	87	92	11/21/02
A1627-20A	13SSTB3013	ND	3	84	85	11/21/02
A1627-21A	13SSTB3213	20	2	93	84	11/21/02
A1627-22A	13SSTB3335	11	3	80	86	11/21/02
A1627-23A	13SSTB3524	5	2	94	89	11/21/02
A1627-24A	13SSTB3602	160	3	88	68	11/26/02
QA/QC						
Method Blank						
MB-4358		ND	2		92	11/21/02
Lab Control Sample (% Recovery)						
LCS-4358		80			92	11/21/02
LCSD-4358		84			90	11/21/02

MITKEM CORPORATION

Analysis Report: Extractable Total Petroleum Hydrocarbons

Client: HRP Associates
Analysis: CT-ETPH
Matrix: Soil

Concentration in: mg/kg, dry weight basis
Date Extracted: 11/14/02

Lab ID	Client ID	Result	Reporting Limit	% Solid	p-Terphenyl Surrogate Recovery %	Analysis Date
A1627-26A	13SSD2A35	4	3	84	87	11/21/02
A1627-27A	13SSD2B35	4	3	84	85	11/22/02
A1627-28A	13SSTB2435	6	3	86	93	11/22/02
A1627-29C	13SSTB3435	7	3	84	86	11/22/02
A1627-30C	13SSTB2413	5	3	85	90	11/22/02
A1627-31C	13SSTB3124	ND	2	94	88	11/22/02
A1627-32A	13SSTB1902	45	2	98	66	11/26/02
A1627-33A	13SSTB20235	ND	3	90	90	11/22/02
A1627-34A	13SSTB2123	4	3	90	86	11/22/02
A1627-35A	13SSTB2202	5	3	84	82	11/22/02
A1627-38A	*2SSTB3746*	*3*	*3*	*89*	*89*	*11/22/02*
A1627-39A	2SSTB3824	7	3	85	82	11/22/02
A1627-40A	2SSTB3902	15	2	93	83	11/22/02
A1627-41A	2SSTB40465	100	3	83	90	11/22/02
A1627-42A	2SSTB4724	3	2	93	86	11/22/02
A1627-43A	2SSTB4802	15	3	90	92	11/22/02
A1627-44A	12SSTB1302	720	23	98	104	11/22/02
A1627-45A	12SSTB1224	360	26	89	130	11/26/02
A1627-46A	12SSTB1102	920	24	96	103	11/22/02
A1627-47A	12SSTB902	540	25	93	111	11/22/02
QA/QC						
Method Blank						
MB-4359		ND	2		87	11/21/02
Lab Control Sample (% Recovery)						
LCS-4359		77			92	11/21/02
LCSD-4359		82			87	11/21/02

MITKEM CORPORATION

Analysis Report: Extractable Total Petroleum Hydrocarbons

Client: HRP Associates
Analysis: CT-ETPH
Matrix: Soil

Concentration in: mg/kg, dry weight basis
Date Extracted: 11/15/02

Lab ID	Client ID	Result	Reporting Limit	% Solid	p-Terphenyl Surrogate Recovery %	Analysis Date
A1627-49A	2SSTB4145	5	3	88	92	11/22/02
A1627-50A	2SSTB4246	8	2	91	83	11/22/02
A1627-52A	2SSD3A465	ND	3	90	93	11/22/02
A1627-53A	2SSD3B465	4	3	90	90	11/22/02
A1627-56A	2SSTB4302	20	2	91	91	11/22/02
A1627-57A	2SSTB4402	170	3	87	64	11/26/02
A1627-58A	2SSTB4524	ND	2	91	92	11/22/02
A1627-59A	2SSTB4602	ND	3	85	81	11/22/02

QA/QC
Method Blank

MB-4369	ND	2	80	11/21/02

Lab Control Sample (% Recovery)

LCS-4369	80		92	11/21/02
LCSD-4369	84		89	11/21/02

MITKEM CORPORATION

Analysis Report: Extractable Total Petroleum Hydrocarbons

Client: HRP Associates
Analysis: CT-ETPH, 3/99
Matrix: Aqueous

Concentration in: mg/L
Date Extracted: 11/11/02

Lab ID	Client ID	Result	Reporting Limit	p-Terphenyl Surrogate % Recovery	Analysis Date
A1627-07C	AOC112E1	ND	0.10	88	11/26/02
A1627-13C	AOC2E3	ND	0.10	49	11/26/02
A1627-25C	AOC13E2	ND	0.10	71	11/26/02
A1627-51C	AOC2E4	ND	0.10	74	11/26/02

QA/QC
Method Blank

MB-4249	ND	0.10	36	11/26/02

Lab Control Sample (% Recovery)

LCS-4249	58		42	11/26/02
LCSD-4249	62		40	11/26/02

ND = Not Detected

MITKEM CORPORATION

Analysis Report: Extractable Total Petroleum Hydrocarbons

Client: HRP Associates
Analysis: CT-ETPH, 3/99
Matrix: Aqueous

Concentration in: mg/L
Date Extracted: 11/25/02

Lab ID	Client ID	Result	Reporting Limit	p-Terphenyl Surrogate % Recovery	Analysis Date
A1627-36B	AOC2B61	ND	0.10	52	11/26/02
A1627-37B	AOC2B62	0.10	0.10	47	11/26/02

QA/QC
Method Blank

MB-4124	ND	0.10	92	11/26/02

Lab Control Sample (% Recovery)

LCS-4124	68		88	11/26/02
LCSD-4124	66		80	11/26/02

ND = Not Detected

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12TB1068

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-03B
Sample wt/vol: 14.8 (g/mL) G Lab File ID: V5B163S
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. 9 Date Analyzed: 11/16/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	65	
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	2	U
1634-04-4	Methyl tert-butyl ether	2	U
75-34-3	1,1-Dichloroethane	2	U
78-93-3	2-Butanone	6	
156-59-2	cis-1,2-Dichloroethene	2	U
590-20-7	2,2-Dichloropropane	2	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
109-99-9	Tetrahydrofuran	2	U
71-55-6	1,1,1-Trichloroethane	2	U
563-58-6	1,1-Dichloropropene	2	U
56-23-5	Carbon Tetrachloride	2	U
107-06-2	1,2-Dichloroethane	2	U
71-43-2	Benzene	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-pentanone	2	U
108-88-3	Toluene	2	U
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
127-18-4	Tetrachloroethene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12TB1068

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-03B
Sample wt/vol: 14.8 (g/mL) G Lab File ID: V5E1635
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. 9 Date Analyzed: 11/16/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	2	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	2	U
	m,p-Xylene	2	U
95-47-6	o-Xylene	2	U
1330-20-7	Xylene (Total)	2	U
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
106-43-4	4-Chlorotoluene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
99-87-6	4-Isopropyltoluene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
87-68-3	Hexachlorobutadiene	2	U
91-20-3	Naphthalene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U
544-10-5	1-Chlorohexane	2	U
107-13-1	Acrylonitrile	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
12TB1068

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-03B
Sample wt/vol: 14.8 (g/mL) G Lab File ID: V5E1635
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. 9 Date Analyzed: 11/16/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.04	3	J
2.	UNKNOWN	8.78	2	J
3.	UNKNOWN	11.07	2	J
4.	UNKNOWN	12.48	2	J
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12TB1524

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-02B
Sample wt/vol: 8.5 (g/mL) G Lab File ID: V5E1629
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. 13 Date Analyzed: 11/15/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	3	U
74-87-3	Chloromethane	3	U
75-01-4	Vinyl Chloride	3	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-69-4	Trichlorofluoromethane	3	U
75-35-4	1,1-Dichloroethene	3	U
67-64-1	Acetone	84	
75-09-2	Methylene Chloride	3	U
156-60-5	trans-1,2-Dichloroethene	3	U
1634-04-4	Methyl tert-butyl ether	3	U
75-34-3	1,1-Dichloroethane	3	U
78-93-3	2-Butanone	19	
156-59-2	cis-1,2-Dichloroethene	3	U
590-20-7	2,2-Dichloropropane	3	U
74-97-5	Bromochloromethane	3	U
67-66-3	Chloroform	3	U
109-99-9	Tetrahydrofuran	3	U
71-55-6	1,1,1-Trichloroethane	3	U
563-58-6	1,1-Dichloropropene	3	U
56-23-5	Carbon Tetrachloride	3	U
107-06-2	1,2-Dichloroethane	3	U
71-43-2	Benzene	3	U
79-01-6	Trichloroethene	3	U
78-87-5	1,2-Dichloropropane	3	U
74-95-3	Dibromomethane	3	U
75-27-4	Bromodichloromethane	3	U
10061-01-5	cis-1,3-Dichloropropene	3	U
108-10-1	4-Methyl-2-pentanone	3	U
108-88-3	Toluene	3	U
10061-02-6	trans-1,3-Dichloropropene	3	U
79-00-5	1,1,2-Trichloroethane	3	U
142-28-9	1,3-Dichloropropane	3	U
127-18-4	Tetrachloroethene	3	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12TB1524

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-02B
Sample wt/vol: 8.5 (g/mL) G Lab File ID: V5E1629
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. 13 Date Analyzed: 11/15/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	3	U
124-48-1	Dibromochloromethane	3	U
106-93-4	1,2-Dibromoethane	3	U
108-90-7	Chlorobenzene	3	U
630-20-6	1,1,1,2-Tetrachloroethane	3	U
100-41-4	Ethylbenzene	3	U
	m,p-Xylene	3	U
95-47-6	o-Xylene	3	U
1330-20-7	Xylene (Total)	3	U
100-42-5	Styrene	3	U
75-25-2	Bromoform	3	U
98-82-8	Isopropylbenzene	3	U
79-34-5	1,1,2,2-Tetrachloroethane	3	U
108-86-1	Bromobenzene	3	U
96-18-4	1,2,3-Trichloropropane	3	U
103-65-1	n-Propylbenzene	3	U
95-49-8	2-Chlorotoluene	3	U
108-67-8	1,3,5-Trimethylbenzene	3	U
106-43-4	4-Chlorotoluene	3	U
98-06-6	tert-Butylbenzene	3	U
95-63-6	1,2,4-Trimethylbenzene	3	U
135-98-8	sec-Butylbenzene	3	U
99-87-6	4-Isopropyltoluene	3	U
541-73-1	1,3-Dichlorobenzene	3	U
106-46-7	1,4-Dichlorobenzene	3	U
104-51-8	n-Butylbenzene	3	U
95-50-1	1,2-Dichlorobenzene	3	U
96-12-8	1,2-Dibromo-3-chloropropane	3	U
120-82-1	1,2,4-Trichlorobenzene	3	U
87-68-3	Hexachlorobutadiene	3	U
91-20-3	Naphthalene	3	U
87-61-6	1,2,3-Trichlorobenzene	3	U
544-10-5	1-Chlorohexane	3	U
107-13-1	Acrylonitrile	3	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
12TB1524

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-02B

Sample wt/vol: 8.5 (g/mL) G Lab File ID: V5E1629

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: not dec. 13 Date Analyzed: 11/15/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13SSTB2413

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-30B

Sample wt/vol: 6.8 (g/mL) G Lab File ID: V5E1632

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: not dec. 15 Date Analyzed: 11/16/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	4	U
74-87-3	Chloromethane	4	U
75-01-4	Vinyl Chloride	4	U
74-83-9	Bromomethane	4	U
75-00-3	Chloroethane	4	U
75-69-4	Trichlorofluoromethane	4	U
75-35-4	1,1-Dichloroethene	4	U
67-64-1	Acetone	300	E
75-09-2	Methylene Chloride	4	U
156-60-5	trans-1,2-Dichloroethene	4	U
1634-04-4	Methyl tert-butyl ether	4	U
75-34-3	1,1-Dichloroethane	4	U
78-93-3	2-Butanone	17	
156-59-2	cis-1,2-Dichloroethene	4	U
590-20-7	2,2-Dichloropropane	4	U
74-97-5	Bromochloromethane	4	U
67-66-3	Chloroform	4	U
109-99-9	Tetrahydrofuran	4	U
71-55-6	1,1,1-Trichloroethane	4	U
563-58-6	1,1-Dichloropropene	4	U
56-23-5	Carbon Tetrachloride	4	U
107-06-2	1,2-Dichloroethane	4	U
71-43-2	Benzene	4	U
79-01-6	Trichloroethene	4	U
78-87-5	1,2-Dichloropropane	4	U
74-95-3	Dibromomethane	4	U
75-27-4	Bromodichloromethane	4	U
10061-01-5	cis-1,3-Dichloropropene	4	U
108-10-1	4-Methyl-2-pentanone	4	U
108-88-3	Toluene	4	U
10061-02-6	trans-1,3-Dichloropropene	4	U
79-00-5	1,1,2-Trichloroethane	4	U
142-28-9	1,3-Dichloropropane	4	U
127-18-4	Tetrachloroethene	4	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13SSTB2413

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-30B

Sample wt/vol: 6.8 (g/mL) G Lab File ID: V5E1632

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: not dec. 15 Date Analyzed: 11/16/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	4	U
124-48-1	Dibromochloromethane	4	U
106-93-4	1,2-Dibromoethane	4	U
108-90-7	Chlorobenzene	4	U
630-20-6	1,1,1,2-Tetrachloroethane	4	U
100-41-4	Ethylbenzene	4	U
	m,p-Xylene	4	U
95-47-6	o-Xylene	4	U
1330-20-7	Xylene (Total)	4	U
100-42-5	Styrene	4	U
75-25-2	Bromoform	4	U
98-82-8	Isopropylbenzene	4	U
79-34-5	1,1,2,2-Tetrachloroethane	4	U
108-86-1	Bromobenzene	4	U
96-18-4	1,2,3-Trichloropropane	4	U
103-65-1	n-Propylbenzene	4	U
95-49-8	2-Chlorotoluene	4	U
108-67-8	1,3,5-Trimethylbenzene	4	U
106-43-4	4-Chlorotoluene	4	U
98-06-6	tert-Butylbenzene	4	U
95-63-6	1,2,4-Trimethylbenzene	4	U
135-98-8	sec-Butylbenzene	4	U
99-87-6	4-Isopropyltoluene	4	U
541-73-1	1,3-Dichlorobenzene	4	U
106-46-7	1,4-Dichlorobenzene	4	U
104-51-8	n-Butylbenzene	4	U
95-50-1	1,2-Dichlorobenzene	4	U
96-12-8	1,2-Dibromo-3-chloropropane	4	U
120-82-1	1,2,4-Trichlorobenzene	4	U
87-68-3	Hexachlorobutadiene	4	U
91-20-3	Naphthalene	4	U
87-61-6	1,2,3-Trichlorobenzene	4	U
544-10-5	1-Chlorohexane	4	U
107-13-1	Acrylonitrile	4	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
13SSTB2413

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-30B

Sample wt/vol: 6.8 (g/mL) G Lab File ID: V5E1632

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: not dec. 15 Date Analyzed: 11/16/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.27	10	J
2.	UNKNOWN	5.04	5	J
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13SSTB2413DL

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-30A
Sample wt/vol: 10.6 (g/mL) G Lab File ID: V1F1101
Level: (low/med) MED Date Received: 11/08/02
% Moisture: not dec. 15 Date Analyzed: 11/18/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	140	U
74-87-3	Chloromethane	140	U
75-01-4	Vinyl Chloride	140	U
74-83-9	Bromomethane	140	U
75-00-3	Chloroethane	140	U
75-69-4	Trichlorofluoromethane	140	U
75-35-4	1,1-Dichloroethene	140	U
67-64-1	Acetone	140	U
75-09-2	Methylene Chloride	46	DJ
107-13-1	Acrylonitrile	140	U
156-60-5	trans-1,2-Dichloroethene	140	U
1634-04-4	Methyl tert-butyl ether	140	U
75-34-3	1,1-Dichloroethane	140	U
78-93-3	2-Butanone	140	U
156-59-2	cis-1,2-Dichloroethene	140	U
590-20-7	2,2-Dichloropropane	140	U
74-97-5	Bromochloromethane	140	U
67-66-3	Chloroform	140	U
109-99-9	Tetrahydrofuran	140	U
71-55-6	1,1,1-Trichloroethane	140	U
563-58-6	1,1-Dichloropropene	140	U
56-23-5	Carbon Tetrachloride	140	U
107-06-2	1,2-Dichloroethane	140	U
71-43-2	Benzene	140	U
79-01-6	Trichloroethene	140	U
78-87-5	1,2-Dichloropropane	140	U
74-95-3	Dibromomethane	140	U
75-27-4	Bromodichloromethane	140	U
10061-01-5	cis-1,3-Dichloropropene	140	U
108-10-1	4-Methyl-2-pentanone	140	U
108-88-3	Toluene	140	U
10061-02-6	trans-1,3-Dichloropropene	140	U
79-00-5	1,1,2-Trichloroethane	140	U
142-28-9	1,3-Dichloropropane	140	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13SSTB2413DL

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-30A
Sample wt/vol: 10.6 (g/mL) G Lab File ID: V1F1101
Level: (low/med) MED Date Received: 11/08/02
% Moisture: not dec. 15 Date Analyzed: 11/18/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	140	U
591-78-6	2-Hexanone	140	U
124-48-1	Dibromochloromethane	140	U
106-93-4	1,2-Dibromoethane	140	U
108-90-7	Chlorobenzene	140	U
630-20-6	1,1,1,2-Tetrachloroethane	140	U
100-41-4	Ethylbenzene	140	U
	m,p-Xylene	140	U
95-47-6	o-Xylene	140	U
1330-20-7	Xylene (Total)	140	U
100-42-5	Styrene	140	U
75-25-2	Bromoform	140	U
98-82-8	Isopropylbenzene	140	U
79-34-5	1,1,2,2-Tetrachloroethane	140	U
108-86-1	Bromobenzene	140	U
96-18-4	1,2,3-Trichloropropane	140	U
103-65-1	n-Propylbenzene	140	U
95-49-8	2-Chlorotoluene	140	U
108-67-8	1,3,5-Trimethylbenzene	140	U
106-43-4	4-Chlorotoluene	140	U
98-06-6	tert-Butylbenzene	140	U
95-63-6	1,2,4-Trimethylbenzene	140	U
135-98-8	sec-Butylbenzene	140	U
99-87-6	4-Isopropyltoluene	140	U
541-73-1	1,3-Dichlorobenzene	140	U
106-46-7	1,4-Dichlorobenzene	140	U
104-51-8	n-Butylbenzene	140	U
95-50-1	1,2-Dichlorobenzene	140	U
96-12-8	1,2-Dibromo-3-chloropropane	140	U
120-82-1	1,2,4-Trichlorobenzene	140	U
87-68-3	Hexachlorobutadiene	140	U
91-20-3	Naphthalene	140	U
87-61-6	1,2,3-Trichlorobenzene	140	U
544-10-5	1-Chlorohexane	140	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
13SSTB2413DL

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-30A
Sample wt/vol: 10.6 (g/mL) G Lab File ID: V1F1101
Level: (low/med) MED Date Received: 11/08/02
% Moisture: not dec. 15 Date Analyzed: 11/18/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13SSTB3124

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-31B
Sample wt/vol: 13.2 (g/mL) G Lab File ID: V5E1634
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. 6 Date Analyzed: 11/16/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	36	
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	2	U
1634-04-4	Methyl tert-butyl ether	2	U
75-34-3	1,1-Dichloroethane	2	U
78-93-3	2-Butanone	2	U
156-59-2	cis-1,2-Dichloroethene	2	U
590-20-7	2,2-Dichloropropane	2	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
109-99-9	Tetrahydrofuran	2	U
71-55-6	1,1,1-Trichloroethane	2	U
563-58-6	1,1-Dichloropropene	2	U
56-23-5	Carbon Tetrachloride	2	U
107-06-2	1,2-Dichloroethane	2	U
71-43-2	Benzene	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-pentanone	2	U
108-88-3	Toluene	0.4	J
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
127-18-4	Tetrachloroethene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13SSTB3124

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-31B
Sample wt/vol: 13.2 (g/mL) G Lab File ID: V5E1634
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. 6 Date Analyzed: 11/16/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	2	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	2	U
	m,p-Xylene	2	U
95-47-6	o-Xylene	2	U
1330-20-7	Xylene (Total)	2	U
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
106-43-4	4-Chlorotoluene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
99-87-6	4-Isopropyltoluene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
87-68-3	Hexachlorobutadiene	2	U
91-20-3	Naphthalene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U
544-10-5	1-Chlorohexane	2	U
107-13-1	Acrylonitrile	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
13SSTB3124

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-31B
Sample wt/vol: 13.2 (g/mL) G Lab File ID: V5E1634
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. 6 Date Analyzed: 11/16/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	11.07	4	J
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13SSTB3435

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-29B
Sample wt/vol: 8.2 (g/mL) G Lab File ID: V5E1631
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. 16 Date Analyzed: 11/16/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	4	U
74-87-3	Chloromethane	4	U
75-01-4	Vinyl Chloride	4	U
74-83-9	Bromomethane	4	U
75-00-3	Chloroethane	4	
75-69-4	Trichlorofluoromethane	4	U
75-35-4	1,1-Dichloroethene	34	
67-64-1	Acetone	630	E
75-09-2	Methylene Chloride	4	U
156-60-5	trans-1,2-Dichloroethene	4	U
1634-04-4	Methyl tert-butyl ether	4	U
75-34-3	1,1-Dichloroethane	380	E
78-93-3	2-Butanone	120	
156-59-2	cis-1,2-Dichloroethene	6	
590-20-7	2,2-Dichloropropane	4	U
74-97-5	Bromochloromethane	4	U
67-66-3	Chloroform	4	U
109-99-9	Tetrahydrofuran	4	U
71-55-6	1,1,1-Trichloroethane	4	U
563-58-6	1,1-Dichloropropene	4	U
56-23-5	Carbon Tetrachloride	4	U
107-06-2	1,2-Dichloroethane	4	U
71-43-2	Benzene	4	U
79-01-6	Trichloroethene	2	J
78-87-5	1,2-Dichloropropane	4	U
74-95-3	Dibromomethane	4	U
75-27-4	Bromodichloromethane	4	U
10061-01-5	cis-1,3-Dichloropropene	4	U
108-10-1	4-Methyl-2-pentanone	15	
108-88-3	Toluene	970	E
10061-02-6	trans-1,3-Dichloropropene	4	U
79-00-5	1,1,2-Trichloroethane	4	U
142-28-9	1,3-Dichloropropane	4	U
127-18-4	Tetrachloroethene	4	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13SSTB3435

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-29B
Sample wt/vol: 8.2 (g/mL) G Lab File ID: V5E1631
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. 16 Date Analyzed: 11/16/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	4	U
124-48-1	Dibromochloromethane	4	U
106-93-4	1,2-Dibromoethane	4	U
108-90-7	Chlorobenzene	4	U
630-20-6	1,1,1,2-Tetrachloroethane	4	U
100-41-4	Ethylbenzene	3	J
	m,p-Xylene	12	
95-47-6	o-Xylene	4	
1330-20-7	Xylene (Total)	16	
100-42-5	Styrene	4	U
75-25-2	Bromoform	4	U
98-82-8	Isopropylbenzene	4	U
79-34-5	1,1,2,2-Tetrachloroethane	4	U
108-86-1	Bromobenzene	4	U
96-18-4	1,2,3-Trichloropropane	4	U
103-65-1	n-Propylbenzene	4	U
95-49-8	2-Chlorotoluene	4	U
108-67-8	1,3,5-Trimethylbenzene	4	U
106-43-4	4-Chlorotoluene	4	U
98-06-6	tert-Butylbenzene	4	U
95-63-6	1,2,4-Trimethylbenzene	4	U
135-98-8	sec-Butylbenzene	4	U
99-87-6	4-Isopropyltoluene	4	U
541-73-1	1,3-Dichlorobenzene	4	U
106-46-7	1,4-Dichlorobenzene	4	U
104-51-8	n-Butylbenzene	4	U
95-50-1	1,2-Dichlorobenzene	4	U
96-12-8	1,2-Dibromo-3-chloropropane	4	U
120-82-1	1,2,4-Trichlorobenzene	4	U
87-68-3	Hexachlorobutadiene	4	U
91-20-3	Naphthalene	4	U
87-61-6	1,2,3-Trichlorobenzene	4	U
544-10-5	1-Chlorohexane	4	U
107-13-1	Acrylonitrile	4	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
13SSTB3435

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-29B
Sample wt/vol: 8.2 (g/mL) G Lab File ID: V5E1631
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. 16 Date Analyzed: 11/16/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 4
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	2.27	36	J
2.		UNKNOWN	2.48	10	J
3.		UNKNOWN	3.60	8	J
4.	78-84-2	PROPANAL, 2-METHYL-	4.35	6	NJ
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13SSTB3435DL

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-29A
Sample wt/vol: 10.4 (g/mL) G Lab File ID: V1F1100
Level: (low/med) MED Date Received: 11/08/02
% Moisture: not dec. 16 Date Analyzed: 11/18/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	140	U
74-87-3	Chloromethane	140	U
75-01-4	Vinyl Chloride	140	U
74-83-9	Bromomethane	140	U
75-00-3	Chloroethane	140	U
75-69-4	Trichlorofluoromethane	140	U
75-35-4	1,1-Dichloroethene	140	U
67-64-1	Acetone	130	DJ
75-09-2	Methylene Chloride	44	DJ
107-13-1	Acrylonitrile	140	U
156-60-5	trans-1,2-Dichloroethene	140	U
1634-04-4	Methyl tert-butyl ether	140	U
75-34-3	1,1-Dichloroethane	170	D
78-93-3	2-Butanone	140	U
156-59-2	cis-1,2-Dichloroethene	140	U
590-20-7	2,2-Dichloropropane	140	U
74-97-5	Bromochloromethane	140	U
67-66-3	Chloroform	140	U
109-99-9	Tetrahydrofuran	140	U
71-55-6	1,1,1-Trichloroethane	140	U
563-58-6	1,1-Dichloropropene	140	U
56-23-5	Carbon Tetrachloride	140	U
107-06-2	1,2-Dichloroethane	140	U
71-43-2	Benzene	140	U
79-01-6	Trichloroethene	140	U
78-87-5	1,2-Dichloropropane	140	U
74-95-3	Dibromomethane	140	U
75-27-4	Bromodichloromethane	140	U
10061-01-5	cis-1,3-Dichloropropene	140	U
108-10-1	4-Methyl-2-pentanone	140	U
108-88-3	Toluene	1300	D
10061-02-6	trans-1,3-Dichloropropene	140	U
79-00-5	1,1,2-Trichloroethane	140	U
142-28-9	1,3-Dichloropropane	140	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13SSTB3435DL

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-29A
Sample wt/vol: 10.4 (g/mL) G Lab File ID: V1F1100
Level: (low/med) MED Date Received: 11/08/02
% Moisture: not dec. 16 Date Analyzed: 11/18/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	140	U
591-78-6	2-Hexanone	140	U
124-48-1	Dibromochloromethane	140	U
106-93-4	1,2-Dibromoethane	140	U
108-90-7	Chlorobenzene	140	U
630-20-6	1,1,1,2-Tetrachloroethane	140	U
100-41-4	Ethylbenzene	140	U
	m,p-Xylene	36	DJ
95-47-6	o-Xylene	140	U
1330-20-7	Xylene (Total)	36	DJ
100-42-5	Styrene	140	U
75-25-2	Bromoform	140	U
98-82-8	Isopropylbenzene	140	U
79-34-5	1,1,2,2-Tetrachloroethane	140	U
108-86-1	Bromobenzene	140	U
96-18-4	1,2,3-Trichloropropane	140	U
103-65-1	n-Propylbenzene	140	U
95-49-8	2-Chlorotoluene	140	U
108-67-8	1,3,5-Trimethylbenzene	140	U
106-43-4	4-Chlorotoluene	140	U
98-06-6	tert-Butylbenzene	140	U
95-63-6	1,2,4-Trimethylbenzene	140	U
135-98-8	sec-Butylbenzene	140	U
99-87-6	4-Isopropyltoluene	140	U
541-73-1	1,3-Dichlorobenzene	140	U
106-46-7	1,4-Dichlorobenzene	140	U
104-51-8	n-Butylbenzene	140	U
95-50-1	1,2-Dichlorobenzene	140	U
96-12-8	1,2-Dibromo-3-chloropropane	140	U
120-82-1	1,2,4-Trichlorobenzene	140	U
87-68-3	Hexachlorobutadiene	140	U
91-20-3	Naphthalene	58	DJ
87-61-6	1,2,3-Trichlorobenzene	140	U
544-10-5	1-Chlorohexane	140	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
13SSTB3435DL

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-29A
Sample wt/vol: 10.4 (g/mL) G Lab File ID: V1F1100
Level: (low/med) MED Date Received: 11/08/02
% Moisture: not dec. 16 Date Analyzed: 11/18/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100(uL)

Number TICs found: 0
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC112E1

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-07A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3698
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. _____ Date Analyzed: 11/14/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	3	J
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC112E1

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-07A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3698
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. _____ Date Analyzed: 11/14/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC112E1

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-07A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3698
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. _____ Date Analyzed: 11/14/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC112T1

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-06A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3697
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. _____ Date Analyzed: 11/14/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC112T1

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-06A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3697
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. _____ Date Analyzed: 11/14/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC112T1

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-06A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3697
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. _____ Date Analyzed: 11/14/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC13E2

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-25A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3700
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. _____ Date Analyzed: 11/14/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	1	J
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC13E2

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-25A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3700
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. _____ Date Analyzed: 11/14/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC13E2

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: A1627-25A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3700

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: not dec. _____ Date Analyzed: 11/14/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2E3

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: A1627-13A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3699

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: not dec. _____ Date Analyzed: 11/14/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	2	J
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2E3

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: A1627-13A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3699

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: not dec. _____ Date Analyzed: 11/14/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC2E3

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: A1627-13A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3699

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: not dec. _____ Date Analyzed: 11/14/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC2E4

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: A1627-51A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3703

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: not dec. _____ Date Analyzed: 11/14/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	2	J
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC2E4

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: A1627-51A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3703

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: not dec. _____ Date Analyzed: 11/14/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: AOC2E4

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: A1627-51A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3703

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: not dec. _____ Date Analyzed: 11/14/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: V1OLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: V1L1118B

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1085

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/18/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	2400	
74-87-3	Chloromethane	2300	
75-01-4	Vinyl Chloride	2200	
74-83-9	Bromomethane	1700	
75-00-3	Chloroethane	3000	
75-69-4	Trichlorofluoromethane	2600	
75-35-4	1,1-Dichloroethene	2200	
67-64-1	Acetone	1800	
75-09-2	Methylene Chloride	2100	
107-13-1	Acrylonitrile	9700	
156-60-5	trans-1,2-Dichloroethene	2100	
1634-04-4	Methyl tert-butyl ether	2200	
75-34-3	1,1-Dichloroethane	2100	
78-93-3	2-Butanone	2100	
156-59-2	cis-1,2-Dichloroethene	2200	
590-20-7	2,2-Dichloropropane	2300	
74-97-5	Bromochloromethane	2200	
67-66-3	Chloroform	2200	
109-99-9	Tetrahydrofuran	2200	
71-55-6	1,1,1-Trichloroethane	2300	
563-58-6	1,1-Dichloropropene	2300	
56-23-5	Carbon Tetrachloride	2300	
107-06-2	1,2-Dichloroethane	2300	
71-43-2	Benzene	2100	
79-01-6	Trichloroethene	2400	
78-87-5	1,2-Dichloropropane	2200	
74-95-3	Dibromomethane	2300	
75-27-4	Bromodichloromethane	2300	
10061-01-5	cis-1,3-Dichloropropene	2300	
108-10-1	4-Methyl-2-pentanone	2300	
108-88-3	Toluene	2200	
10061-02-6	trans-1,3-Dichloropropene	2300	
79-00-5	1,1,2-Trichloroethane	2300	
142-28-9	1,3-Dichloropropane	2200	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V1OLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: V1L1118B
Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1085
Level: (low/med) MED Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 11/18/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	2300	
591-78-6	2-Hexanone	2200	
124-48-1	Dibromochloromethane	2300	
106-93-4	1,2-Dibromoethane	2200	
108-90-7	Chlorobenzene	2200	
630-20-6	1,1,1,2-Tetrachloroethane	2300	
100-41-4	Ethylbenzene	2200	
----------	m,p-Xylene	4400	
95-47-6	o-Xylene	2300	
1330-20-7	Xylene (Total)	6700	
100-42-5	Styrene	2400	
75-25-2	Bromoform	2400	
98-82-8	Isopropylbenzene	2300	
79-34-5	1,1,2,2-Tetrachloroethane	2100	
108-86-1	Bromobenzene	2200	
96-18-4	1,2,3-Trichloropropane	2200	
103-65-1	n-Propylbenzene	2200	
95-49-8	2-Chlorotoluene	2200	
108-67-8	1,3,5-Trimethylbenzene	2200	
106-43-4	4-Chlorotoluene	2200	
98-06-6	tert-Butylbenzene	2200	
95-63-6	1,2,4-Trimethylbenzene	2200	
135-98-8	sec-Butylbenzene	2200	
99-87-6	4-Isopropyltoluene	2200	
541-73-1	1,3-Dichlorobenzene	2200	
106-46-7	1,4-Dichlorobenzene	2200	
104-51-8	n-Butylbenzene	2200	
95-50-1	1,2-Dichlorobenzene	2200	
96-12-8	1,2-Dibromo-3-chloropropane	2200	
120-82-1	1,2,4-Trichlorobenzene	2300	
87-68-3	Hexachlorobutadiene	2200	
91-20-3	Naphthalene	2200	
87-61-6	1,2,3-Trichlorobenzene	2300	
544-10-5	1-Chlorohexane	2200	

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V5CLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: V5L1115B
Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E1627
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 11/15/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	52	
74-87-3	Chloromethane	55	
75-01-4	Vinyl Chloride	54	
74-83-9	Bromomethane	56	
75-00-3	Chloroethane	57	
75-69-4	Trichlorofluoromethane	54	
75-35-4	1,1-Dichloroethene	52	
67-64-1	Acetone	48	
75-09-2	Methylene Chloride	52	
156-60-5	trans-1,2-Dichloroethene	51	
1634-04-4	Methyl tert-butyl ether	52	
75-34-3	1,1-Dichloroethane	51	
78-93-3	2-Butanone	52	
156-59-2	cis-1,2-Dichloroethene	50	
590-20-7	2,2-Dichloropropane	51	
74-97-5	Bromochloromethane	51	
67-66-3	Chloroform	50	
109-99-9	Tetrahydrofuran	54	
71-55-6	1,1,1-Trichloroethane	51	
563-58-6	1,1-Dichloropropene	50	
56-23-5	Carbon Tetrachloride	50	
107-06-2	1,2-Dichloroethane	51	
71-43-2	Benzene	50	
79-01-6	Trichloroethene	49	
78-87-5	1,2-Dichloropropane	50	
74-95-3	Dibromomethane	50	
75-27-4	Bromodichloromethane	50	
10061-01-5	cis-1,3-Dichloropropene	49	
108-10-1	4-Methyl-2-pentanone	51	
108-88-3	Toluene	49	
10061-02-6	trans-1,3-Dichloropropene	48	
79-00-5	1,1,2-Trichloroethane	48	
142-28-9	1,3-Dichloropropane	50	
127-18-4	Tetrachloroethene	50	

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V5CLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: V5L1115B
Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E1627
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 11/15/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	52	
124-48-1	Dibromochloromethane	49	
106-93-4	1,2-Dibromoethane	49	
108-90-7	Chlorobenzene	48	
630-20-6	1,1,1,2-Tetrachloroethane	48	
100-41-4	Ethylbenzene	48	
----------	m,p-Xylene	96	
95-47-6	o-Xylene	49	
1330-20-7	Xylene (Total)	140	
100-42-5	Styrene	48	
75-25-2	Bromoform	49	
98-82-8	Isopropylbenzene	48	
79-34-5	1,1,2,2-Tetrachloroethane	46	
108-86-1	Bromobenzene	46	
96-18-4	1,2,3-Trichloropropane	48	
103-65-1	n-Propylbenzene	46	
95-49-8	2-Chlorotoluene	46	
108-67-8	1,3,5-Trimethylbenzene	47	
106-43-4	4-Chlorotoluene	47	
98-06-6	tert-Butylbenzene	48	
95-63-6	1,2,4-Trimethylbenzene	48	
135-98-8	sec-Butylbenzene	48	
99-87-6	4-Isopropyltoluene	49	
541-73-1	1,3-Dichlorobenzene	47	
106-46-7	1,4-Dichlorobenzene	47	
104-51-8	n-Butylbenzene	49	
95-50-1	1,2-Dichlorobenzene	47	
96-12-8	1,2-Dibromo-3-chloropropane	45	
120-82-1	1,2,4-Trichlorobenzene	45	
87-68-3	Hexachlorobutadiene	47	
91-20-3	Naphthalene	43	
87-61-6	1,2,3-Trichlorobenzene	44	
544-10-5	1-Chlorohexane	49	
107-13-1	Acrylonitrile	270	

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V5CLCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: V5L1115C
Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E1628
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 11/15/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	51	
74-87-3	Chloromethane	55	
75-01-4	Vinyl Chloride	54	
74-83-9	Bromomethane	56	
75-00-3	Chloroethane	56	
75-69-4	Trichlorofluoromethane	54	
75-35-4	1,1-Dichloroethene	52	
67-64-1	Acetone	49	
75-09-2	Methylene Chloride	53	
156-60-5	trans-1,2-Dichloroethene	51	
1634-04-4	Methyl tert-butyl ether	52	
75-34-3	1,1-Dichloroethane	53	
78-93-3	2-Butanone	52	
156-59-2	cis-1,2-Dichloroethene	51	
590-20-7	2,2-Dichloropropane	51	
74-97-5	Bromochloromethane	51	
67-66-3	Chloroform	52	
109-99-9	Tetrahydrofuran	48	
71-55-6	1,1,1-Trichloroethane	51	
563-58-6	1,1-Dichloropropene	50	
56-23-5	Carbon Tetrachloride	50	
107-06-2	1,2-Dichloroethane	52	
71-43-2	Benzene	50	
79-01-6	Trichloroethene	50	
78-87-5	1,2-Dichloropropane	52	
74-95-3	Dibromomethane	51	
75-27-4	Bromodichloromethane	51	
10061-01-5	cis-1,3-Dichloropropene	49	
108-10-1	4-Methyl-2-pentanone	51	
108-88-3	Toluene	50	
10061-02-6	trans-1,3-Dichloropropene	50	
79-00-5	1,1,2-Trichloroethane	49	
142-28-9	1,3-Dichloropropane	50	
127-18-4	Tetrachloroethene	50	

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: V5CLCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: V5L1115C

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E1628

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/15/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	51	
124-48-1	Dibromochloromethane	49	
106-93-4	1,2-Dibromoethane	49	
108-90-7	Chlorobenzene	49	
630-20-6	1,1,1,2-Tetrachloroethane	48	
100-41-4	Ethylbenzene	48	
	m,p-Xylene	96	
95-47-6	o-Xylene	49	
1330-20-7	Xylene (Total)	140	
100-42-5	Styrene	49	
75-25-2	Bromoform	48	
98-82-8	Isopropylbenzene	47	
79-34-5	1,1,2,2-Tetrachloroethane	46	
108-86-1	Bromobenzene	47	
96-18-4	1,2,3-Trichloropropane	47	
103-65-1	n-Propylbenzene	46	
95-49-8	2-Chlorotoluene	46	
108-67-8	1,3,5-Trimethylbenzene	48	
106-43-4	4-Chlorotoluene	47	
98-06-6	tert-Butylbenzene	48	
95-63-6	1,2,4-Trimethylbenzene	48	
135-98-8	sec-Butylbenzene	47	
99-87-6	4-Isopropyltoluene	48	
541-73-1	1,3-Dichlorobenzene	48	
106-46-7	1,4-Dichlorobenzene	48	
104-51-8	n-Butylbenzene	49	
95-50-1	1,2-Dichlorobenzene	48	
96-12-8	1,2-Dibromo-3-chloropropane	48	
120-82-1	1,2,4-Trichlorobenzene	48	
87-68-3	Hexachlorobutadiene	48	
91-20-3	Naphthalene	46	
87-61-6	1,2,3-Trichlorobenzene	48	
544-10-5	1-Chlorohexane	48	
107-13-1	Acrylonitrile	260	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: V6ULCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: V6L1114A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3695

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/14/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	58	
74-87-3	Chloromethane	54	
75-01-4	Vinyl Chloride	52	
74-83-9	Bromomethane	43	
75-00-3	Chloroethane	43	
75-69-4	Trichlorofluoromethane	52	
75-35-4	1,1-Dichloroethene	44	
67-64-1	Acetone	38	
75-09-2	Methylene Chloride	44	
107-13-1	Acrylonitrile	220	
156-60-5	trans-1,2-Dichloroethene	46	
1634-04-4	Methyl tert-butyl ether	43	
75-34-3	1,1-Dichloroethane	47	
78-93-3	2-Butanone	40	
156-59-2	cis-1,2-Dichloroethene	47	
590-20-7	2,2-Dichloropropane	44	
74-97-5	Bromochloromethane	45	
67-66-3	Chloroform	47	
109-99-9	Tetrahydrofuran	56	
71-55-6	1,1,1-Trichloroethane	46	
563-58-6	1,1-Dichloropropene	47	
56-23-5	Carbon Tetrachloride	48	
107-06-2	1,2-Dichloroethane	47	
71-43-2	Benzene	49	
79-01-6	Trichloroethene	46	
78-87-5	1,2-Dichloropropane	48	
74-95-3	Dibromomethane	46	
75-27-4	Bromodichloromethane	47	
10061-01-5	cis-1,3-Dichloropropene	46	
108-10-1	4-Methyl-2-pentanone	40	
108-88-3	Toluene	50	
10061-02-6	trans-1,3-Dichloropropene	45	
79-00-5	1,1,2-Trichloroethane	47	
142-28-9	1,3-Dichloropropane	49	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: V6ULCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: V6L1114A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3695

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/14/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	46	
591-78-6	2-Hexanone	43	
124-48-1	Dibromochloromethane	48	
106-93-4	1,2-Dibromoethane	47	
108-90-7	Chlorobenzene	50	
630-20-6	1,1,1,2-Tetrachloroethane	49	
100-41-4	Ethylbenzene	49	
	m,p-Xylene	100	
95-47-6	o-Xylene	48	
1330-20-7	Xylene (Total)	150	
100-42-5	Styrene	51	
75-25-2	Bromoform	48	
98-82-8	Isopropylbenzene	53	
79-34-5	1,1,2,2-Tetrachloroethane	51	
108-86-1	Bromobenzene	48	
96-18-4	1,2,3-Trichloropropane	50	
103-65-1	n-Propylbenzene	50	
95-49-8	2-Chlorotoluene	50	
108-67-8	1,3,5-Trimethylbenzene	53	
106-43-4	4-Chlorotoluene	50	
98-06-6	tert-Butylbenzene	53	
95-63-6	1,2,4-Trimethylbenzene	53	
135-98-8	sec-Butylbenzene	56	
99-87-6	4-Isopropyltoluene	54	
541-73-1	1,3-Dichlorobenzene	50	
106-46-7	1,4-Dichlorobenzene	50	
104-51-8	n-Butylbenzene	56	
95-50-1	1,2-Dichlorobenzene	50	
96-12-8	1,2-Dibromo-3-chloropropane	46	
120-82-1	1,2,4-Trichlorobenzene	47	
87-68-3	Hexachlorobutadiene	46	
91-20-3	Naphthalene	45	
87-61-6	1,2,3-Trichlorobenzene	47	
544-10-5	1-Chlorohexane	47	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: V6ULCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: V6L1114B

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3696

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/14/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	57	
74-87-3	Chloromethane	57	
75-01-4	Vinyl Chloride	55	
74-83-9	Bromomethane	49	
75-00-3	Chloroethane	42	
75-69-4	Trichlorofluoromethane	55	
75-35-4	1,1-Dichloroethene	46	
67-64-1	Acetone	36	
75-09-2	Methylene Chloride	46	
107-13-1	Acrylonitrile	240	
156-60-5	trans-1,2-Dichloroethene	48	
1634-04-4	Methyl tert-butyl ether	45	
75-34-3	1,1-Dichloroethane	48	
78-93-3	2-Butanone	43	
156-59-2	cis-1,2-Dichloroethene	48	
590-20-7	2,2-Dichloropropane	48	
74-97-5	Bromochloromethane	47	
67-66-3	Chloroform	49	
109-99-9	Tetrahydrofuran	57	
71-55-6	1,1,1-Trichloroethane	48	
563-58-6	1,1-Dichloropropene	48	
56-23-5	Carbon Tetrachloride	49	
107-06-2	1,2-Dichloroethane	48	
71-43-2	Benzene	51	
79-01-6	Trichloroethene	47	
78-87-5	1,2-Dichloropropane	49	
74-95-3	Dibromomethane	48	
75-27-4	Bromodichloromethane	48	
10061-01-5	cis-1,3-Dichloropropene	47	
108-10-1	4-Methyl-2-pentanone	43	
108-88-3	Toluene	52	
10061-02-6	trans-1,3-Dichloropropene	48	
79-00-5	1,1,2-Trichloroethane	48	
142-28-9	1,3-Dichloropropane	51	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V6ULCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: V6L1114B
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3696
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 11/14/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	48	
591-78-6	2-Hexanone	46	
124-48-1	Dibromochloromethane	50	
106-93-4	1,2-Dibromoethane	50	
108-90-7	Chlorobenzene	51	
630-20-6	1,1,1,2-Tetrachloroethane	50	
100-41-4	Ethylbenzene	50	
	m,p-Xylene	100	
95-47-6	o-Xylene	50	
1330-20-7	Xylene (Total)	150	
100-42-5	Styrene	52	
75-25-2	Bromoform	49	
98-82-8	Isopropylbenzene	54	
79-34-5	1,1,2,2-Tetrachloroethane	53	
108-86-1	Bromobenzene	50	
96-18-4	1,2,3-Trichloropropane	52	
103-65-1	n-Propylbenzene	52	
95-49-8	2-Chlorotoluene	51	
108-67-8	1,3,5-Trimethylbenzene	54	
106-43-4	4-Chlorotoluene	51	
98-06-6	tert-Butylbenzene	55	
95-63-6	1,2,4-Trimethylbenzene	55	
135-98-8	sec-Butylbenzene	58	
99-87-6	4-Isopropyltoluene	56	
541-73-1	1,3-Dichlorobenzene	51	
106-46-7	1,4-Dichlorobenzene	52	
104-51-8	n-Butylbenzene	58	
95-50-1	1,2-Dichlorobenzene	51	
96-12-8	1,2-Dibromo-3-chloropropane	48	
120-82-1	1,2,4-Trichlorobenzene	49	
87-68-3	Hexachlorobutadiene	47	
91-20-3	Naphthalene	47	
87-61-6	1,2,3-Trichlorobenzene	48	
544-10-5	1-Chlorohexane	49	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12TB1068

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-03C
Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3C0339
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: 9 decanted: (Y/N) N Date Extracted:11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)Ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-Methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	730	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	730	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	730	U
83-32-9	Acenaphthene	360	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12TB1068

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-03C
Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3C0339
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: 9 decanted: (Y/N) N Date Extracted:11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	730	U
100-02-7	4-Nitrophenol	730	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	730	U
534-52-1	4,6-Dinitro-2-methylphenol	730	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	730	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenzo(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	360	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
12TB1068

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-03C
Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3C0339
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: 9 decanted: (Y/N) N Date Extracted:11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.18	1300	J
2.		UNKNOWN	10.03	180	J
3.		UNKNOWN	32.03	200	J
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12TB1524

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-02C
Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3C0338
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	660	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	660	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	660	U
83-32-9	Acenaphthene	330	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12TB1524

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-02C
Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3C0338
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	660	U
100-02-7	4-Nitrophenol	660	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	660	U
534-52-1	4,6-Dinitro-2-methylphenol	660	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	660	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
12TB1524

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-02C
Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3C0338
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 5 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.19	1100	J
2.		UNKNOWN	7.90	280	J
3.		UNKNOWN	10.03	160	J
4.	10544-50-0	SULFUR, MOL. (S8)	19.23	220	NJ
5.		UNKNOWN	22.74	280	J
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13SSTB2413

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-30C
Sample wt/vol: 30.8 (g/mL) G Lab File ID: S3C0341
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: 15 decanted: (Y/N) N Date Extracted: 11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)Ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-Methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	770	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	770	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	770	U
83-32-9	Acenaphthene	380	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13SSTB2413

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-30C
Sample wt/vol: 30.8 (g/mL) G Lab File ID: S3C0341
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: 15 decanted: (Y/N) N Date Extracted:11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	770	U
100-02-7	4-Nitrophenol	770	U
132-64-9	Dibenzofuran	380	U
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	770	U
534-52-1	4,6-Dinitro-2-methylphenol	770	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	770	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenzo(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
13SSTB2413

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-30C
Sample wt/vol: 30.8 (g/mL) G Lab File ID: S3C0341
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: 15 decanted: (Y/N) N Date Extracted:11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.18	1100	J
2.	UNKNOWN	10.03	160	J
3.	UNKNOWN	23.77	170	J
4.	UNKNOWN	27.70	240	J
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13SSTB3124

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-31C
Sample wt/vol: 30.6 (g/mL) G Lab File ID: S3C0353
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: 6 decanted: (Y/N) N Date Extracted:11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/19/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)Ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	2,2'-oxybis(1-Chloropropane)	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-Methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
99-09-2	3-Nitroaniline	700	U
83-32-9	Acenaphthene	340	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13SSTB3124

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-31C
Sample wt/vol: 30.6 (g/mL) G Lab File ID: S3C0353
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: 6 decanted: (Y/N) N Date Extracted:11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/19/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	700	U
100-02-7	4-Nitrophenol	700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	700	U
534-52-1	4,6-Dinitro-2-methylphenol	700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
86-74-8	Carbazole	340	U
84-74-2	Di-n-butylphthalate	58	J
206-44-0	Fluoranthene	42	J
129-00-0	Pyrene	42	J
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	340	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	36	J
117-81-7	bis(2-Ethylhexyl)phthalate	47	J
117-84-0	Di-n-octylphthalate	340	U
205-99-2	Benzo(b)fluoranthene	43	J
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
13SSTB3124

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-31C
Sample wt/vol: 30.6 (g/mL) G Lab File ID: S3C0353
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: 6 decanted: (Y/N) N Date Extracted: 11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/19/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 4
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.08	940	J
2.		UNKNOWN	9.93	140	J
3.	14021-23-9	D-FRIEDOOLEAN-14-ENE, 3-METH	27.43	450	NJ
4.		UNKNOWN	27.72	240	J
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC OLM03.0

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13SSTB3435

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-29C
Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3C0340
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: 16 decanted: (Y/N) N Date Extracted: 11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)Ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	180	J
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	*Hexachloroethane*	*390*	*U*
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-Methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	790	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	790	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	790	U
83-32-9	Acenaphthene	390	U

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13SSTB3435

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-29C
Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3C0340
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: 16 decanted: (Y/N) N Date Extracted: 11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	790	U
100-02-7	4-Nitrophenol	790	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	790	U
534-52-1	4,6-Dinitro-2-methylphenol	790	U
86-30-6	N-Nitrosodiphenylamine (1)	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	790	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
13SSTB3435

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-29C
Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3C0340
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: 16 decanted: (Y/N) N Date Extracted: 11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 4
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.19	1400	J
2.		UNKNOWN	10.03	210	J
3.	14021-23-9	D-FRIEDOOLEAN-14-ENE, 3-METH	27.70	700	NJ
4.		UNKNOWN	28.57	270	J
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC OLM03.0

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2BB1

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-36C
Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S3C0349
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/14/02
Concentrated Extract Volume: 500(uL) Date Analyzed: 11/19/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2BB1

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-36C
Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S3C0349
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/14/02
Concentrated Extract Volume: 500(uL) Date Analyzed: 11/19/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC2BB1

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-36C
Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S3C0349
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/14/02
Concentrated Extract Volume: 500(uL) Date Analyzed: 11/19/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2BB2

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-37C
Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S3C0352
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/14/02
Concentrated Extract Volume: 500(uL) Date Analyzed: 11/19/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2BB2

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-37C
Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S3C0352
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/14/02
Concentrated Extract Volume: 500(uL) Date Analyzed: 11/19/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC2BB2

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-37C
Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S3C0352
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/14/02
Concentrated Extract Volume: 500(uL) Date Analyzed: 11/19/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC112E1

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-07D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0265
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC112E1

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-07D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0265
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC112E1

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-07D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0265
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC OLM03.0

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC13E2

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-25D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0267
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC13E2

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-25D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0267
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC13E2

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-25D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0267
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC OLM03.0

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2E3

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-13D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0266
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2E3

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-13D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0266
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC2E3

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-13D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0266
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2E4

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-51D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0268
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2B4

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-51D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0268
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC2B4

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-51D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0268
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC OLM03.0

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S3PLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: LCS-4285
Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3C0377
Level: (low/med) LOW Date Received: _____
% Moisture: 0 decanted: (Y/N) N Date Extracted:11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/21/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1400	
111-44-4	bis(2-Chloroethyl)Ether	1300	
95-57-8	2-Chlorophenol	1400	
541-73-1	1,3-Dichlorobenzene	1300	
106-46-7	1,4-Dichlorobenzene	1300	
95-50-1	1,2-Dichlorobenzene	1400	
95-48-7	2-Methylphenol	1500	
108-60-1	2,2'-oxybis(1-Chloropropane)	1200	
106-44-5	4-Methylphenol	1400	
621-64-7	N-Nitroso-di-n-propylamine	1600	
67-72-1	Hexachloroethane	1300	
98-95-3	Nitrobenzene	1200	
78-59-1	Isophorone	1400	
88-75-5	2-Nitrophenol	1400	
105-67-9	2,4-Dimethylphenol	1200	
120-83-2	2,4-Dichlorophenol	1500	
120-82-1	1,2,4-Trichlorobenzene	1500	
91-20-3	Naphthalene	1400	
106-47-8	4-Chloroaniline	470	
111-91-1	bis(2-Chloroethoxy)methane	1400	
87-68-3	Hexachlorobutadiene	1600	
59-50-7	4-Chloro-3-Methylphenol	1400	
91-57-6	2-Methylnaphthalene	1400	
77-47-4	Hexachlorocyclopentadiene	1100	
88-06-2	2,4,6-Trichlorophenol	1500	
95-95-4	2,4,5-Trichlorophenol	1500	
91-58-7	2-Chloronaphthalene	1200	
88-74-4	2-Nitroaniline	1200	
131-11-3	Dimethylphthalate	1500	
208-96-8	Acenaphthylene	1400	
606-20-2	2,6-Dinitrotoluene	1400	
99-09-2	3-Nitroaniline	900	
83-32-9	Acenaphthene	1400	

FORM I SV-1 OLM03.0

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S3XLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: LCS-4279
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0262
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	12	
111-44-4	bis(2-Chloroethyl)Ether	39	
95-57-8	2-Chlorophenol	36	
541-73-1	1,3-Dichlorobenzene	38	
106-46-7	1,4-Dichlorobenzene	38	
95-50-1	1,2-Dichlorobenzene	39	
95-48-7	2-Methylphenol	32	
108-60-1	2,2'-oxybis(1-Chloropropane)	42	
106-44-5	4-Methylphenol	28	
621-64-7	N-Nitroso-di-n-propylamine	44	
67-72-1	Hexachloroethane	39	
98-95-3	Nitrobenzene	42	
78-59-1	Isophorone	43	
88-75-5	2-Nitrophenol	42	
105-67-9	2,4-Dimethylphenol	38	
120-83-2	2,4-Dichlorophenol	41	
120-82-1	1,2,4-Trichlorobenzene	39	
91-20-3	Naphthalene	43	
106-47-8	4-Chloroaniline	14	
111-91-1	bis(2-Chloroethoxy)methane	43	
87-68-3	Hexachlorobutadiene	38	
59-50-7	4-Chloro-3-Methylphenol	41	
91-57-6	2-Methylnaphthalene	42	
77-47-4	Hexachlorocyclopentadiene	39	
88-06-2	2,4,6-Trichlorophenol	42	
95-95-4	2,4,5-Trichlorophenol	42	
91-58-7	2-Chloronaphthalene	38	
88-74-4	2-Nitroaniline	44	
131-11-3	Dimethylphthalate	45	
208-96-8	Acenaphthylene	43	
606-20-2	2,6-Dinitrotoluene	43	
99-09-2	3-Nitroaniline	37	
83-32-9	Acenaphthene	44	

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S3XLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: LCS-4279
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0262
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	30	
100-02-7	4-Nitrophenol	12	J
132-64-9	Dibenzofuran	43	
121-14-2	2,4-Dinitrotoluene	44	
84-66-2	Diethylphthalate	44	
7005-72-3	4-Chlorophenyl-phenylether	42	
86-73-7	Fluorene	44	
100-01-6	4-Nitroaniline	38	
534-52-1	4,6-Dinitro-2-methylphenol	39	
86-30-6	N-Nitrosodiphenylamine (1)	44	
101-55-3	4-Bromophenyl-phenylether	41	
118-74-1	Hexachlorobenzene	43	
87-86-5	Pentachlorophenol	39	
85-01-8	Phenanthrene	45	
120-12-7	Anthracene	46	
86-74-8	Carbazole	48	
84-74-2	Di-n-butylphthalate	46	
206-44-0	Fluoranthene	46	
129-00-0	Pyrene	45	
85-68-7	Butylbenzylphthalate	48	
91-94-1	3,3'-Dichlorobenzidine	42	
56-55-3	Benzo(a)anthracene	46	
218-01-9	Chrysene	45	
117-81-7	bis(2-Ethylhexyl)phthalate	44	
117-84-0	Di-n-octylphthalate	47	
205-99-2	Benzo(b)fluoranthene	43	
207-08-9	Benzo(k)fluoranthene	50	
50-32-8	Benzo(a)pyrene	45	
193-39-5	Indeno(1,2,3-cd)pyrene	44	
53-70-3	Dibenzo(a,h)anthracene	44	
191-24-2	Benzo(g,h,i)perylene	43	

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
S3XLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: LCS-4279
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0262
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 100-51-6	BENZYL ALCOHOL	8.34	17	NJ
2. 103-33-3	AZOBENZENE	15.56	36	NJ
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S3XLCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: LCSD-4279
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0264
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	13	
111-44-4	bis(2-Chloroethyl)Ether	38	
95-57-8	2-Chlorophenol	36	
541-73-1	1,3-Dichlorobenzene	37	
106-46-7	1,4-Dichlorobenzene	37	
95-50-1	1,2-Dichlorobenzene	37	
95-48-7	2-Methylphenol	32	
108-60-1	2,2'-oxybis(1-Chloropropane)	41	
106-44-5	4-Methylphenol	28	
621-64-7	N-Nitroso-di-n-propylamine	44	
67-72-1	Hexachloroethane	38	
98-95-3	Nitrobenzene	40	
78-59-1	Isophorone	41	
88-75-5	2-Nitrophenol	40	
105-67-9	2,4-Dimethylphenol	37	
120-83-2	2,4-Dichlorophenol	40	
120-82-1	*1,2,4-Trichlorobenzene*	*39*	
91-20-3	Naphthalene	41	
106-47-8	4-Chloroaniline	14	
111-91-1	bis(2-Chloroethoxy)methane	42	
87-68-3	Hexachlorobutadiene	36	
59-50-7	4-Chloro-3-Methylphenol	40	
91-57-6	2-Methylnaphthalene	40	
77-47-4	Hexachlorocyclopentadiene	37	
88-06-2	2,4,6-Trichlorophenol	41	
95-95-4	2,4,5-Trichlorophenol	42	
91-58-7	2-Chloronaphthalene	37	
88-74-4	2-Nitroaniline	44	
131-11-3	Dimethylphthalate	44	
208-96-8	Acenaphthylene	42	
606-20-2	2,6-Dinitrotoluene	42	
99-09-2	3-Nitroaniline	37	
83-32-9	Acenaphthene	43	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S3XLCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: LCSD-4279
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0264
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	30	
100-02-7	4-Nitrophenol	13	J
132-64-9	Dibenzofuran	42	
121-14-2	2,4-Dinitrotoluene	43	
84-66-2	Diethylphthalate	43	
7005-72-3	4-Chlorophenyl-phenylether	41	
86-73-7	Fluorene	43	
100-01-6	4-Nitroaniline	37	
534-52-1	4,6-Dinitro-2-methylphenol	37	
86-30-6	N-Nitrosodiphenylamine (1)	43	
101-55-3	4-Bromophenyl-phenylether	39	
118-74-1	Hexachlorobenzene	42	
87-86-5	Pentachlorophenol	39	
85-01-8	Phenanthrene	44	
120-12-7	Anthracene	45	
86-74-8	Carbazole	47	
84-74-2	*Di-n-butylphthalate*	*45*	
206-44-0	Fluoranthene	45	
129-00-0	Pyrene	44	
85-68-7	Butylbenzylphthalate	47	
91-94-1	3,3'-Dichlorobenzidine	41	
56-55-3	Benzo(a)anthracene	44	
218-01-9	Chrysene	44	
117-81-7	bis(2-Ethylhexyl)phthalate	43	
117-84-0	Di-n-octylphthalate	45	
205-99-2	Benzo(b)fluoranthene	42	
207-08-9	Benzo(k)fluoranthene	48	
50-32-8	Benzo(a)pyrene	43	
193-39-5	Indeno(1,2,3-cd)pyrene	42	
53-70-3	Dibenzo(a,h)anthracene	42	
191-24-2	Benzo(g,h,i)perylene	42	

(1) - Cannot be separated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S3PLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: LCS-4285
Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3C0377
Level: (low/med) LOW Date Received: _____
% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/21/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1400	
100-02-7	4-Nitrophenol	1200	
132-64-9	Dibenzofuran	1300	
121-14-2	2,4-Dinitrotoluene	1400	
84-66-2	Diethylphthalate	1400	
7005-72-3	4-Chlorophenyl-phenylether	1400	
86-73-7	Fluorene	1300	
100-01-6	4-Nitroaniline	980	
534-52-1	4,6-Dinitro-2-methylphenol	1500	
86-30-6	N-Nitrosodiphenylamine (1)	1400	
101-55-3	4-Bromophenyl-phenylether	1500	
118-74-1	Hexachlorobenzene	1600	
87-86-5	Pentachlorophenol	1600	
85-01-8	Phenanthrene	1400	
120-12-7	Anthracene	1400	
86-74-8	Carbazole	1500	
84-74-2	*Di-n-butylphthalate*	*1500*	
206-44-0	Fluoranthene	1500	
129-00-0	Pyrene	1500	
85-68-7	Butylbenzylphthalate	1500	
91-94-1	3,3'-Dichlorobenzidine	1100	
56-55-3	Benzo(a)anthracene	1500	
218-01-9	Chrysene	1400	
117-81-7	bis(2-Ethylhexyl)phthalate	1400	
117-84-0	Di-n-octylphthalate	1500	
205-99-2	Benzo(b)fluoranthene	1500	
207-08-9	Benzo(k)fluoranthene	1700	
50-32-8	Benzo(a)pyrene	1500	
193-39-5	Indeno(1,2,3-cd)pyrene	1400	
53-70-3	Dibenzo(a,h)anthracene	1400	
191-24-2	Benzo(g,h,i)perylene	1400	

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S3PLCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: LCSD-4285
Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3C0378
Level: (low/med) LOW Date Received: _____
% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/21/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1300	
111-44-4	bis(2-Chloroethyl)Ether	1200	
95-57-8	2-Chlorophenol	1300	
541-73-1	1,3-Dichlorobenzene	1200	
106-46-7	1,4-Dichlorobenzene	1200	
95-50-1	1,2-Dichlorobenzene	1300	
95-48-7	2-Methylphenol	1400	
108-60-1	2,2'-oxybis(1-Chloropropane)	1100	
106-44-5	4-Methylphenol	1300	
621-64-7	N-Nitroso-di-n-propylamine	1400	
67-72-1	Hexachloroethane	1200	
98-95-3	Nitrobenzene	1100	
78-59-1	Isophorone	1200	
88-75-5	2-Nitrophenol	1200	
105-67-9	2,4-Dimethylphenol	1200	
120-83-2	2,4-Dichlorophenol	1400	
120-82-1	*1,2,4-Trichlorobenzene*	*1400*	
91-20-3	Naphthalene	1300	
106-47-8	4-Chloroaniline	540	
111-91-1	bis(2-Chloroethoxy)methane	1300	
87-68-3	Hexachlorobutadiene	1400	
59-50-7	4-Chloro-3-Methylphenol	1400	
91-57-6	2-Methylnaphthalene	1300	
77-47-4	Hexachlorocyclopentadiene	990	
88-06-2	2,4,6-Trichlorophenol	1400	
95-95-4	2,4,5-Trichlorophenol	1400	
91-58-7	2-Chloronaphthalene	1100	
88-74-4	2-Nitroaniline	1100	
131-11-3	Dimethylphthalate	1400	
208-96-8	Acenaphthylene	1300	
606-20-2	2,6-Dinitrotoluene	1400	
99-09-2	3-Nitroaniline	930	
83-32-9	Acenaphthene	1300	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S3PLCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: LCSD-4285
Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3C0378
Level: (low/med) LOW Date Received: _____
% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/21/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1400	
100-02-7	4-Nitrophenol	1100	
132-64-9	Dibenzofuran	1300	
121-14-2	2,4-Dinitrotoluene	1300	
84-66-2	Diethylphthalate	1400	
7005-72-3	4-Chlorophenyl-phenylether	1300	
86-73-7	Fluorene	1300	
100-01-6	4-Nitroaniline	1000	
534-52-1	4,6-Dinitro-2-methylphenol	1400	
86-30-6	N-Nitrosodiphenylamine (1)	1300	
101-55-3	4-Bromophenyl-phenylether	1400	
118-74-1	Hexachlorobenzene	1600	
87-86-5	Pentachlorophenol	1500	
85-01-8	Phenanthrene	1400	
120-12-7	Anthracene	1400	
86-74-8	Carbazole	1400	
84-74-2	Di-n-butylphthalate	1400	
206-44-0	Fluoranthene	1500	
129-00-0	Pyrene	1400	
85-68-7	Butylbenzylphthalate	1500	
91-94-1	3,3'-Dichlorobenzidine	1200	
56-55-3	Benzo(a)anthracene	1500	
218-01-9	Chrysene	1400	
117-81-7	bis(2-Ethylhexyl)phthalate	1400	
117-84-0	Di-n-octylphthalate	1500	
205-99-2	Benzo(b)fluoranthene	1400	
207-08-9	Benzo(k)fluoranthene	1600	
50-32-8	Benzo(a)pyrene	1500	
193-39-5	Indeno(1,2,3-cd)pyrene	1400	
53-70-3	Dibenzo(a,h)anthracene	1400	
191-24-2	Benzo(g,h,i)perylene	1400	

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S3PLCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: LCSD-4285
Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3C0378
Level: (low/med) LOW Date Received: _____
% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/21/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1300	
111-44-4	bis(2-Chloroethyl)Ether	1200	
95-57-8	2-Chlorophenol	1300	
541-73-1	1,3-Dichlorobenzene	1200	
106-46-7	1,4-Dichlorobenzene	1200	
95-50-1	1,2-Dichlorobenzene	1300	
95-48-7	2-Methylphenol	1400	
108-60-1	2,2'-oxybis(1-Chloropropane)	1100	
106-44-5	4-Methylphenol	1300	
621-64-7	N-Nitroso-di-n-propylamine	1400	B
67-72-1	Hexachloroethane	1200	
98-95-3	Nitrobenzene	1100	
78-59-1	Isophorone	1200	
88-75-5	2-Nitrophenol	1200	
105-67-9	2,4-Dimethylphenol	1200	
120-83-2	2,4-Dichlorophenol	1400	
120-82-1	1,2,4-Trichlorobenzene	1400	
91-20-3	Naphthalene	1300	
106-47-8	4-Chloroaniline	540	
111-91-1	bis(2-Chloroethoxy)methane	1300	
87-68-3	Hexachlorobutadiene	1400	
59-50-7	4-Chloro-3-Methylphenol	1400	
91-57-6	2-Methylnaphthalene	1300	
77-47-4	Hexachlorocyclopentadiene	990	
88-06-2	2,4,6-Trichlorophenol	1400	
95-95-4	2,4,5-Trichlorophenol	1400	
91-58-7	2-Chloronaphthalene	1100	
88-74-4	2-Nitroaniline	1100	
131-11-3	Dimethylphthalate	1400	
208-96-8	Acenaphthylene	1300	
606-20-2	2,6-Dinitrotoluene	1400	B
99-09-2	3-Nitroaniline	930	
83-32-9	Acenaphthene	1300	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S3PLCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: LCSD-4285
Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3C0378
Level: (low/med) LOW Date Received: _____
% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/21/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1400	
100-02-7	4-Nitrophenol	1100	
132-64-9	Dibenzofuran	1300	
121-14-2	2,4-Dinitrotoluene	1300	B
84-66-2	Diethylphthalate	1400	
7005-72-3	4-Chlorophenyl-phenylether	1300	
86-73-7	Fluorene	1300	
100-01-6	4-Nitroaniline	1000	
534-52-1	4,6-Dinitro-2-methylphenol	1400	
86-30-6	N-Nitrosodiphenylamine (1)	1300	
101-55-3	4-Bromophenyl-phenylether	1400	
118-74-1	Hexachlorobenzene	1600	
87-86-5	Pentachlorophenol	1500	
85-01-8	Phenanthrene	1400	
120-12-7	Anthracene	1400	
86-74-8	Carbazole	1400	
84-74-2	Di-n-butylphthalate	1400	
206-44-0	Fluoranthene	1500	
129-00-0	Pyrene	1400	
85-68-7	Butylbenzylphthalate	1500	
91-94-1	3,3'-Dichlorobenzidine	1200	
56-55-3	Benzo(a)anthracene	1500	
218-01-9	Chrysene	1400	
117-81-7	bis(2-Ethylhexyl)phthalate	1400	
117-84-0	Di-n-octylphthalate	1500	
205-99-2	Benzo(b)fluoranthene	1400	
207-08-9	Benzo(k)fluoranthene	1600	
50-32-8	Benzo(a)pyrene	1500	
193-39-5	Indeno(1,2,3-cd)pyrene	1400	
53-70-3	Dibenzo(a,h)anthracene	1400	
191-24-2	Benzo(g,h,i)perylene	1400	

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

000103

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S3ZLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: LCS-4362
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0454
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/14/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/25/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	13	
111-44-4	bis(2-Chloroethyl)Ether	35	
95-57-8	2-Chlorophenol	37	
541-73-1	1,3-Dichlorobenzene	36	
106-46-7	1,4-Dichlorobenzene	36	
95-50-1	1,2-Dichlorobenzene	36	
95-48-7	2-Methylphenol	33	
108-60-1	2,2'-oxybis(1-Chloropropane)	41	
106-44-5	4-Methylphenol	28	
621-64-7	N-Nitroso-di-n-propylamine	40	
67-72-1	Hexachloroethane	35	
98-95-3	Nitrobenzene	36	
78-59-1	Isophorone	38	
88-75-5	2-Nitrophenol	41	
105-67-9	2,4-Dimethylphenol	30	
120-83-2	2,4-Dichlorophenol	41	
120-82-1	1,2,4-Trichlorobenzene	38	
91-20-3	Naphthalene	40	
106-47-8	4-Chloroaniline	9	J
111-91-1	bis(2-Chloroethoxy)methane	39	
87-68-3	Hexachlorobutadiene	34	
59-50-7	4-Chloro-3-Methylphenol	40	
91-57-6	2-Methylnaphthalene	40	
77-47-4	Hexachlorocyclopentadiene	23	
88-06-2	2,4,6-Trichlorophenol	41	
95-95-4	2,4,5-Trichlorophenol	42	
91-58-7	2-Chloronaphthalene	36	
88-74-4	2-Nitroaniline	40	
131-11-3	Dimethylphthalate	44	
208-96-8	Acenaphthylene	41	
606-20-2	2,6-Dinitrotoluene	43	
99-09-2	3-Nitroaniline	38	
83-32-9	Acenaphthene	41	

FORM I SV-1 OLM03.0

000104

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S3ZLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: LCS-4362
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0454
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/14/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/25/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	40	
100-02-7	4-Nitrophenol	14	J
132-64-9	Dibenzofuran	41	
121-14-2	2,4-Dinitrotoluene	44	
84-66-2	Diethylphthalate	44	
7005-72-3	4-Chlorophenyl-phenylether	39	
86-73-7	Fluorene	41	
100-01-6	4-Nitroaniline	42	
534-52-1	4,6-Dinitro-2-methylphenol	44	
86-30-6	N-Nitrosodiphenylamine (1)	41	
101-55-3	4-Bromophenyl-phenylether	38	
118-74-1	Hexachlorobenzene	44	
87-86-5	Pentachlorophenol	43	
85-01-8	Phenanthrene	44	
120-12-7	Anthracene	42	
86-74-8	Carbazole	50	
84-74-2	Di-n-butylphthalate	46	
206-44-0	Fluoranthene	44	
129-00-0	Pyrene	47	
85-68-7	Butylbenzylphthalate	53	
91-94-1	3,3'-Dichlorobenzidine	37	
56-55-3	Benzo(a)anthracene	44	
218-01-9	Chrysene	45	
117-81-7	bis(2-Ethylhexyl)phthalate	48	
117-84-0	Di-n-octylphthalate	48	
205-99-2	Benzo(b)fluoranthene	44	
207-08-9	Benzo(k)fluoranthene	50	
50-32-8	Benzo(a)pyrene	45	
193-39-5	Indeno(1,2,3-cd)pyrene	44	
53-70-3	Dibenzo(a,h)anthracene	44	
191-24-2	Benzo(g,h,i)perylene	45	

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

000105

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC112E1

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-07D
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E3D8200F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/11/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

000106

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: AOC13B2

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-25D
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E3D8202F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/11/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: AOC2BB1

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-36C
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E3D8210F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/13/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: AOC2BB2

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-37C
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E3D8211F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/13/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: AOC2B3

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-13D
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E3D8201F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/11/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: AOC2E4

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: A1627-51D

Sample wt/vol: 1000 (g/ml) ML Lab File ID: E3D8203F

% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/11/02

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/23/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: B3JLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: LCS-4333

Sample wt/vol: 1000 (g/ml) ML Lab File ID: E3D8195F

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/13/02

Concentrated Extract Volume: 2500(uL) Date Analyzed: 11/23/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	2.2	
11104-28-2	Aroclor-1221	0.25	U
11141-16-5	Aroclor-1232	0.25	U
53469-21-9	Aroclor-1242	0.25	U
12672-29-6	Aroclor-1248	0.25	U
11097-69-1	Aroclor-1254	0.25	U
11096-82-5	Aroclor-1260	2.2	

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: B3KLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: LCS-4280

Sample wt/vol: 1000 (g/ml) ML Lab File ID: E3D8198F

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/11/02

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/23/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	8.4	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	7.8	

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: B3JLCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: LCSD-4333

Sample wt/vol: 1000 (g/ml) ML Lab File ID: E3D8196F

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/13/02

Concentrated Extract Volume: 2500(uL) Date Analyzed: 11/23/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	2.5	
11104-28-2	Aroclor-1221	0.25	U
11141-16-5	Aroclor-1232	0.25	U
53469-21-9	Aroclor-1242	0.25	U
12672-29-6	Aroclor-1248	0.25	U
11097-69-1	Aroclor-1254	0.25	U
11096-82-5	Aroclor-1260	2.5	

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: B3KLCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: LCSD-4280
Sample wt/vol: 1000 (g/ml) ML Lab File ID: B3D8199F
% Moisture: ____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/11/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	7.2	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	6.7	

FORM I PCB

000115

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: 12TB1524

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-02C
Sample wt/vol: 30.3 (g/mL) G Lab File ID: B1D8007F
% Moisture: 13 decanted: (Y/N) N Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/11/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

FORM I PCB

000116

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: 13SSTB2413

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-30C
Sample wt/vol: 30.6 (g/mL) G Lab File ID: B1D8009F
% Moisture: 15 decanted: (Y/N) N Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/11/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

FORM I PCB

000117

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: 13SSTB3124

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-31C
Sample wt/vol: 30.9 (g/mL) G Lab File ID: B1D8010F
% Moisture: 6 decanted: (Y/N) N Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SONC Date Extracted:11/11/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	34	U
11104-28-2	Aroclor-1221	34	U
11141-16-5	Aroclor-1232	34	U
53469-21-9	Aroclor-1242	34	U
12672-29-6	Aroclor-1248	34	U
11097-69-1	Aroclor-1254	43	P
11096-82-5	Aroclor-1260	34	U

FORM I PCB

000118

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: 13SSTB3435

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-29C

Sample wt/vol: 30.7 (g/mL) G Lab File ID: E1D8008F

% Moisture: 16 decanted: (Y/N) N Date Received: 11/08/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/11/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/22/02

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: 2SSD4A46

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-54A

Sample wt/vol: 15.0 (g/mL) G Lab File ID: E1D8020F

% Moisture: 15 decanted: (Y/N) N Date Received: 11/08/02

Extraction: (SepF/Cont/Sonc) PFE Date Extracted: 11/13/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/23/02

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: 2SSD4B46

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-55A

Sample wt/vol: 15.1 (g/mL) G Lab File ID: E1D8021F

% Moisture: 12 decanted: (Y/N) N Date Received: 11/08/02

Extraction: (SepF/Cont/Sonc) PFE Date Extracted: 11/13/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/23/02

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: 2SSTB4246

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-50A

Sample wt/vol: 15.2 (g/mL) G Lab File ID: E1D8019F

% Moisture: 9 decanted: (Y/N) N Date Received: 11/08/02

Extraction: (SepF/Cont/Sonc) PFE Date Extracted: 11/13/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 11/23/02

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	36	U
11104-28-2	Aroclor-1221	36	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	36	U
11096-82-5	Aroclor-1260	36	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: 2SSTB4302

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-56A
Sample wt/vol: 15.0 (g/mL) G Lab File ID: E1D8022F
% Moisture: 9 decanted: (Y/N) N Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) PFE Date Extracted: 11/13/02
Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: 2SSTB4402

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-57A
Sample wt/vol: 15.9 (g/mL) G Lab File ID: E1D8023F
% Moisture: 13 decanted: (Y/N) N Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) PFE Date Extracted: 11/13/02
Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	36	U
11104-28-2	Aroclor-1221	36	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	36	U
11096-82-5	Aroclor-1260	36	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: 2SSTB4524

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-58A
Sample wt/vol: 15.0 (g/mL) G Lab File ID: E1D8024F
% Moisture: 9 decanted: (Y/N) N Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) PFE Date Extracted: 11/13/02
Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: 2SSTB4602

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-59A
Sample wt/vol: 15.8 (g/mL) G Lab File ID: E1D8025F
% Moisture: 15 decanted: (Y/N) N Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) PFE Date Extracted: 11/13/02
Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: 2SSTB4724

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-42A
Sample wt/vol: 30.4 (g/mL) G Lab File ID: E1D8011F
% Moisture: 7 decanted: (Y/N) N Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/11/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	35	U
11104-28-2	Aroclor-1221	35	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	35	U
11096-82-5	Aroclor-1260	35	U

FORM I PCB

000127

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: 2SSTB4802

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-43A
Sample wt/vol: 30.1 (g/mL) G Lab File ID: E1D8012F
% Moisture: 10 decanted: (Y/N) N Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/11/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U

FORM I PCB

000128

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: B1ALCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: LCS-4149
Sample wt/vol: 30.0 (g/mL) G Lab File ID: E1D7922F
% Moisture: 0 decanted: (Y/N) N Date Received: _____
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/11/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/20/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	340	
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	330	

FORM I PCB

000129

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: B1ZLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: LCS-4254
Sample wt/vol: 15.0 (g/mL) G Lab File ID: E1D8005F
% Moisture: 0 decanted: (Y/N) N Date Received: _____
Extraction: (SepF/Cont/Sonc) PFE Date Extracted: 11/13/02
Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	410	
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	410	

FORM I PCB

000130

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: 12TB1524

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-02C
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8165F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: 13SSTB2413

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-30C
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8167F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: 13SSTB3124

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-31C
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8168F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: 13SSTB3435

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-29C
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8166F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
2SSD4A46

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-54A
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8172F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
2SSD4B46

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-55A
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8182F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
2SSTB4246

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-50A
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8171F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
2SSTB4302

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-56A
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8183F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: 2SSTB4402

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-57A
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8184F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: 2SSTB4524

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-58A
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8185F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: 2SSTB4602

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-59A
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8186F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: 2SSTB4724

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-42A
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8169F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/06/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: 2SSTB4802

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-43A
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8170F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM I PCB

000143

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: B3HLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: LCS-4344
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8154F
% Moisture: _____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	29	
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	28	

FORM I PCB

000144

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: B3HLCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: LCSD-4344
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8155F
% Moisture: _____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	29	
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	27	

FORM I PCB

000145

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: 12SSTB1102

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: A1627
Matrix (soil/water): SOIL Lab Sample ID: A1627-46A
Level (low/med): MED Date Received: 11/08/02
% Solids: 96.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9520			P
7440-36-0	Antimony	1.0	B		P
7440-38-2	Arsenic	2.9			P
7440-39-3	Barium	81.9			P
7440-41-7	Beryllium	0.32			P
7440-43-9	Cadmium	0.28			P
7440-70-2	Calcium	13700			P
7440-47-3	Chromium	19.7			P
7440-48-4	Cobalt	6.7			P
7440-50-8	Copper	18.4			P
7439-89-6	Iron	12400			P
7439-92-1	Lead	7.9			P
7439-95-4	Magnesium	5440			P
7439-96-5	Manganese	221			P
7439-97-6	Mercury	0.015	U		CV
7440-02-0	Nickel	10.6			P
7440-09-7	Potassium	2710			P
7782-49-2	Selenium	0.36	U		P
7440-22-4	Silver	0.089	U		P
7440-23-5	Sodium	261			P
7440-28-0	Thallium	1.1			P
7440-62-2	Vanadium	31.9			P
7440-66-6	Zinc	30.5			P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments:

FORM I - IN

SW846

000146

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
12SSTB1802

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix (soil/water): WATER Lab Sample ID: SPLPA1627-09A
Level (low/med): MED Date Received: 11/08/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	1.3	B		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:
SPLP_METALS_FOR_SAMPLE_12SSTB1802

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
12SSTB1802

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix (soil/water): SOIL Lab Sample ID: A1627-09A
Level (low/med): MED Date Received: 11/08/02
% Solids: 89.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.096			CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
12SSTB902

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix (soil/water): WATER Lab Sample ID: SPLPA1627-47A
Level (low/med): MED Date Received: 11/08/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:
SPLP_METALS_FOR_SAMPLE_12SSTB902

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
12SSTB902

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix (soil/water): SOIL Lab Sample ID: A1627-47A
Level (low/med): MED Date Received: 11/08/02
% Solids: 93.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel	9.1			P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: 12TB1068

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix (soil/water): SOIL Lab Sample ID: A1627-03C
Level (low/med): MED Date Received: 11/08/02
% Solids: 91.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7440			P
7440-36-0	Antimony	0.15	U		P
7440-38-2	Arsenic	1.8			P
7440-39-3	Barium	30.6			P
7440-41-7	Beryllium	0.24	B		P
7440-43-9	Cadmium	0.18	B		P
7440-70-2	*Calcium*	*2820*			P
7440-47-3	Chromium	159			P
7440-48-4	Cobalt	3.4			P
7440-50-8	Copper	8.5			P
7439-89-6	Iron	12000			P
7439-92-1	Lead	4.7			P
7439-95-4	Magnesium	2450			P
7439-96-5	Manganese	107			P
7439-97-6	Mercury	0.016	U		CV
7440-02-0	Nickel	9.5			P
7440-09-7	Potassium	1030			P
7782-49-2	Selenium	0.39	U		P
7440-22-4	Silver	0.098	U		P
7440-23-5	Sodium	731			P
7440-28-0	Thallium	0.65			P
7440-62-2	Vanadium	34.1			P
7440-66-6	Zinc	16.8			P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: 12TB1524

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix (soil/water): SOIL Lab Sample ID: A1627-02C
Level (low/med): MED Date Received: 11/08/02
% Solids: 87.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12000			P
7440-36-0	Antimony	0.46	B		P
7440-38-2	Arsenic	4.8			P
7440-39-3	Barium	61.5			P
7440-41-7	Beryllium	0.11	U		P
7440-43-9	Cadmium	0.35			P
7440-70-2	*Calcium*	*10600*			P
7440-47-3	Chromium	22.4			P
7440-48-4	Cobalt	8.8			P
7440-50-8	Copper	22.0			P
7439-89-6	Iron	15800			P
7439-92-1	Lead	11.0			P
7439-95-4	Magnesium	10100			P
7439-96-5	Manganese	250			P
7439-97-6	Mercury	0.032	B		CV
7440-02-0	Nickel	12.1			P
7440-09-7	Potassium	3510			P
7782-49-2	Selenium	0.43	U		P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	499			P
7440-28-0	Thallium	0.21	U		P
7440-62-2	Vanadium	32.4			P
7440-66-6	Zinc	44.8			P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: 13SSTB2413

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix (soil/water): SOIL Lab Sample ID: A1627-30C
Level (low/med): MED Date Received: 11/08/02
% Solids: 85.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16200			P
7440-36-0	Antimony	1.4	B		P
7440-38-2	Arsenic	3.9			P
7440-39-3	*Barium*	*134*			P
7440-41-7	Beryllium	0.64			P
7440-43-9	Cadmium	0.36			P
7440-70-2	Calcium	897			P
7440-47-3	Chromium	25.7			P
7440-48-4	Cobalt	7.3			P
7440-50-8	Copper	10.8			P
7439-89-6	Iron	19700			P
7439-92-1	Lead	9.1			P
7439-95-4	Magnesium	5270			P
7439-96-5	Manganese	471			P
7439-97-6	Mercury	0.019	B		CV
7440-02-0	Nickel	12.4			P
7440-09-7	Potassium	1330			P
7782-49-2	Selenium	0.41	U		P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	355			P
7440-28-0	Thallium	0.75			P
7440-62-2	Vanadium	35.8			P
7440-66-6	Zinc	31.0			P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: 13SSTB3124

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix (soil/water): SOIL Lab Sample ID: A1627-31C
Level (low/med): MED Date Received: 11/08/02
% Solids: 94.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13000			P
7440-36-0	Antimony	1.1	B		P
7440-38-2	Arsenic	4.1			P
7440-39-3	*Barium*	*150*			P
7440-41-7	Beryllium	0.59			P
7440-43-9	Cadmium	0.33			P
7440-70-2	Calcium	2450			P
7440-47-3	Chromium	30.1			P
7440-48-4	Cobalt	6.3			P
7440-50-8	Copper	18.2			P
7439-89-6	Iron	14500			P
7439-92-1	Lead	11.7			P
7439-95-4	Magnesium	5970			P
7439-96-5	Manganese	322			P
7439-97-6	Mercury	0.021	B		CV
7440-02-0	Nickel	11.9			P
7440-09-7	Potassium	3040			P
7782-49-2	Selenium	0.40	U		P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	137	B		P
7440-28-0	Thallium	1.2			P
7440-62-2	Vanadium	35.0			P
7440-66-6	Zinc	38.4			P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

I
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
13SSTB3435

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix (soil/water): SOIL Lab Sample ID: A1627-29C
Level (low/med): MED Date Received: 11/08/02
% Solids: 84.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	20400			P
7440-36-0	Antimony	0.87	B		P
7440-38-2	Arsenic	4.7			P
7440-39-3	Barium	197			P
7440-41-7	Beryllium	0.12	U		P
7440-43-9	Cadmium	0.44			P
7440-70-2	Calcium	2350			P
7440-47-3	Chromium	33.9			P
7440-48-4	Cobalt	9.9			P
7440-50-8	Copper	13.0			P
7439-89-6	Iron	23000			P
7439-92-1	Lead	10.1			P
7439-95-4	Magnesium	7420			P
7439-96-5	Manganese	535			P
7439-97-6	Mercury	0.026	B		CV
7440-02-0	Nickel	14.3			P
7440-09-7	Potassium	2160			P
7782-49-2	Selenium	0.47	U		P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	387			P
7440-28-0	Thallium	0.23	U		P
7440-62-2	Vanadium	47.0			P
7440-66-6	Zinc	46.7			P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

I
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC112E1

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix (soil/water): WATER Lab Sample ID: A1627-07B
Level (low/med): MED Date Received: 11/08/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12.0	U		P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	8.1	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	76.0	U		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.7	B		P
7439-89-6	Iron	35.0	U		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	23.0	U		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.16	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	89.0	U		P
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	153	B		P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

I
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC13E2

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix (soil/water): WATER Lab Sample ID: A1627-25B
Level (low/med): MED Date Received: 11/08/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12.0	U		P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	6.4	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	76.0	U		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	35.0	U		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	23.0	U		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	89.0	U		P
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	118	U		P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

I
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2BB1

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix (soil/water): WATER Lab Sample ID: A1627-36A
Level (low/med): MED Date Received: 11/08/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12.0	U		P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	8.1	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	76.0	U		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	4.4	B		P
7439-89-6	Iron	35.0	U		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	23.0	U		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	118	B		P
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	741	B		P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:
TCLP_METALS_FOR_SAMPLE_AOC2BB1

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2BB2

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix (soil/water): WATER Lab Sample ID: A1627-37A
Level (low/med): MED Date Received: 11/08/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12.0	U		P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	7.3	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	76.0	U		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	4.0	B		P
7439-89-6	Iron	35.0	U		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	23.0	U		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	140	B		P
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	918	B		P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:
TCLP_METALS_FOR_SAMPLE_AOC2BB2

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2E3

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix (soil/water): WATER Lab Sample ID: A1627-13B
Level (low/med): MED Date Received: 11/08/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12.0	U		P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	7.3	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	76.0	U		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	35.0	U		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	23.0	U		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.15	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	89.0	U		P
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	124	B		P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2E4

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix (soil/water): WATER Lab Sample ID: A1627-51B
Level (low/med): MED Date Received: 11/08/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12.0	U		P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	5.3	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	76.0	U		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	35.0	U		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	23.0	U		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	89.0	U		P
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	118	U		P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

U.S. EPA - CLP

7
LABORATORY CONTROL SAMPLE

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Solid LCS Source:
Aqueous LCS Source: HIGH_PURITY

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	9100.0	9138.7	100.4						
Antimony	455.0	535.1	117.6						
Arsenic	455.0	507.4	111.5						
Barium	9100.0	9422.4	103.5						
Beryllium	227.0	229.6	101.1						
Cadmium	227.0	245.7	108.2						
Calcium	22700.0	22405.7	98.7						
Chromium	910.0	917.9	100.9						
Cobalt	2270.0	2316.9	102.1						
Copper	1130.0	1150.7	101.8						
Iron	4550.0	4625.0	101.6						
Lead	455.0	489.0	107.5						
Magnesium	22700.0	22948.6	101.1						
Manganese	2270.0	2306.3	101.6						
Mercury	4.6	4.0	87.0						
Nickel	2270.0	2197.5	96.8						
Potassium	22700.0	21479.9	94.6						
Selenium	455.0	478.2	105.1						
Silver	1130.0	1119.4	99.1						
Sodium	22700.0	22204.4	97.8						
Thallium	455.0	491.1	107.9						
Vanadium	2270.0	2282.0	100.5						
Zinc	2270.0	2331.8	102.7						
Cyanide									

FORM VII - IN SW846

U.S. EPA - CLP

7
LABORATORY CONTROL SAMPLE

Lab Name: MITKEM_CORPORATION_____ Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: A1627__

Solid LCS Source: ERA_LOT#802115

Aqueous LCS Source: HIGH_PURITY_

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	9100.0	9065.4	99.6						
Antimony	455.0	526.5	115.7						
Arsenic	455.0	502.3	110.4						
Barium	9100.0	9357.7	102.8						
Beryllium	227.0	230.2	101.4						
Cadmium	227.0	242.9	107.0						
Calcium	22700.0	22104.7	97.4						
Chromium	910.0	908.0	99.8						
Cobalt	2270.0	2287.2	100.8						
Copper	1130.0	1142.7	101.1						
Iron	4550.0	4597.9	101.1						
Lead	455.0	484.8	106.5						
Magnesium	22700.0	22798.1	100.4						
Manganese	2270.0	2287.2	100.8						
Mercury	4.6	4.0	87.0	0.8	0.8		0.6	1.0	100.0
Nickel	2270.0	2271.3	100.1						
Potassium	22700.0	21245.1	93.6						
Selenium	455.0	472.1	103.8						
Silver	1130.0	1104.6	97.8						
Sodium	22700.0	21803.4	96.1						
Thallium	455.0	486.2	106.9						
Vanadium	2270.0	2270.1	100.0						
Zinc	2270.0	2316.3	102.0						
Cyanide									

FORM VII - IN SW846

000163

U.S. EPA - CLP

7
LABORATORY CONTROL SAMPLE

Lab Name: MITKEM_CORPORATION_____ Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: A1627__

Solid LCS Source: _____

Aqueous LCS Source: HIGH_PURITY_

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel	2270.0	2245.4	98.9						
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

FORM VII - IN SW846

000164

U.S. EPA - CLP

7
LABORATORY CONTROL SAMPLE

Lab Name: MITKEM_CORPORATION_____ Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: A1627__

Solid LCS Source: ERA_LOT#802115

Aqueous LCS Source: HIGH_PURITY_

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	9100.0	9138.7	100.4	910.0	854.8		758.9	982.8	93.9
Antimony	455.0	535.1	117.6	45.5	54.2		38.9	60.2	119.1
Arsenic	455.0	507.4	111.5	45.5	50.4		35.4	57.8	110.8
Barium	9100.0	9422.4	103.5	910.0	911.3		810.8	1072.9	100.1
Beryllium	227.0	229.6	101.1	22.7	22.0		19.0	26.1	96.9
Cadmium	227.0	245.7	108.2	22.7	24.6		18.2	29.8	108.4
Calcium	22700.0	22405.7	98.7	2270.0	2077.7		1886.4	2526.5	91.5
Chromium	910.0	917.9	100.9	91.0	88.5		76.3	105.7	97.3
Cobalt	2270.0	2316.9	102.1	227.0	221.3		193.2	265.4	97.5
Copper	1130.0	1150.7	101.8	113.0	109.4		93.7	133.7	96.8
Iron	4550.0	4625.0	101.6	455.0	449.9		391.3	533.3	98.9
Lead	455.0	489.0	107.5	45.5	51.0		36.5	61.4	112.1
Magnesium	22700.0	22948.6	101.1	2270.0	2192.0		1920.4	2546.9	96.6
Manganese	2270.0	2306.3	101.6	227.0	223.4		195.2	267.4	98.4
Mercury	4.6	4.0	87.0	0.8	0.8		0.6	1.0	100.0
Nickel	2270.0	2197.5	96.8	227.0	217.1		192.0	262.9	95.6
Potassium	22700.0	21479.9	94.6	2270.0	2122.2		1718.4	2590.1	93.5
Selenium	455.0	478.2	105.1	45.5	44.9		34.6	56.4	98.7
Silver	1130.0	1119.4	99.1	113.0	105.6		87.8	132.6	93.5
Sodium	22700.0	22204.4	97.8	2270.0	2145.3		1784.2	2478.8	94.5
Thallium	455.0	491.1	107.9	45.5	49.8		35.3	61.3	109.5
Vanadium	2270.0	2282.0	100.5	227.0	220.8		189.3	261.5	97.3
Zinc	2270.0	2331.8	102.7	227.0	220.4		184.8	258.3	97.1
Cyanide									

FORM VII - IN SW846

000165

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	VBLK5C	98	98	98	91	0
02	V5CLCS	107	109	104	102	0
03	V5CLCSD	105	103	101	101	0
04	12TB1524	99	101	102	96	0
05	13SSTB3435	103	101	108	95	0
06	13SSTB2413	103	100	109	97	0
07	13SSTB3124	110	107	109	100	0
08	12TB1068	103	104	107	93	0
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

QC LIMITS

SMC1 = Dibromofluoromethane (52-130)
SMC2 (DCE) = 1,2-Dichloroethane-d4 (50-126)
SMC3 (TOL) = Toluene-d8 (25-156)
OTHER (BFB) = Bromofluorobenzene (49-146)

Column to be used to flag recovery values

* Values outside of contract required QC limits

page 1 of 1 FORM II VOA-2 OLM03.0

000166

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Level: (low/med) MED

	EPA SAMPLE NO.	SMC1 #	SMC2 (DCE)#	SMC3 (TOL)#	OTHER (BFB)#	TOT OUT
01	VBLK1O	100	94	98	96	0
02	V1OLCS	93	91	90	96	0
03	13SSTB3435DL	98	95	99	97	0
04	13SSTB2413DL	99	96	96	96	0
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

QC LIMITS

SMC1 = Dibromofluoromethane (52-130)
SMC2 (DCE) = 1,2-Dichloroethane-d4 (50-126)
SMC3 (TOL) = Toluene-d8 (25-156)
OTHER(BFB) = Bromofluorobenzene (49-146)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

	EPA SAMPLE NO.	SMC1 #	SMC2 (DCE)#	SMC3 (TOL)#	OTHER (BFB)#	TOT OUT
01	VBLK6U	92	89	108	94	0
02	V6ULCS	88	87	97	91	0
03	V6ULCSD	99	98	109	101	0
04	AOC112T1	93	87	110	95	0
05	AOC112E1	94	90	108	95	0
06	AOC2E3	92	91	109	94	0
07	AOC13E2	94	91	107	92	0
08	AOC2E4	93	90	109	92	0
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

QC LIMITS

SMC1 = Dibromofluoromethane (78-117)
SMC2 (DCE) = 1,2-Dichloroethane-d4 (62-124)
SMC3 (TOL) = Toluene-d8 (81-116)
OTHER(BFB) = Bromofluorobenzene (74-126)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	SBLK3X	80	82	79	25	38	78	68	77	0
02	S3XLCS	82	82	82	22	35	82	67	74	0
03	S3XLCSD	85	88	87	24	39	87	71	78	0
04	AOC112E1	80	82	60	19	29	80	60	76	0
05	AOC2E3	79	81	78	23	36	79	68	73	0
06	AOC13E2	82	84	68	18	29	80	63	77	0
07	AOC2E4	77	78	59	22	35	73	65	72	0
08	AOC2BB1	70	76	87	37	50	76	69	70	0
09	AOC2BB2	72	76	87	35	49	75	70	71	0
10	SBLK3Z	77	82	90	25	37	90	74	81	0
11	S3ZLCS	82	86	91	26	40	103	76	81	0
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

QC LIMITS

S1 (NBZ) = Nitrobenzene-d5 (48-106)
S2 (FBP) = 2-Fluorobiphenyl (38-120)
S3 (TPH) = Terphenyl-d14 (0-147)
S4 (PHL) = Phenol-d5 (0-120)
S5 (2FP) = 2-Fluorophenol (1-103)
S6 (TBP) = 2,4,6-Tribromophenol (37-122)
S7 (2CP) = 2-Chlorophenol-d4 (28-107) (advisory)
S8 (DCB) = 1,2-Dichlorobenzene-d4 (37-106) (advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	12TB1524	67	72	80	66	67	68	69	70	0
02	12TB1068	75	80	89	73	74	76	77	78	0
03	13SSTB3435	73	80	91	73	74	85	77	77	0
04	13SSTB2413	74	82	95	72	73	77	75	77	0
05	13SSTB3124	78	84	95	76	76	82	79	81	0
06	SBLK3P	78	86	101	78	80	98	85	86	0
07	S3PLCS	78	89	94	78	80	104	87	89	0
08	S3PLCSD	70	82	91	72	74	97	80	80	0
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

QC LIMITS

S1 (NBZ) = Nitrobenzene-d5 (46-102)
S2 (FBP) = 2-Fluorobiphenyl (52-107)
S3 (TPH) = Terphenyl-d14 (61-113)
S4 (PHL) = Phenol-d5 (45- 99)
S5 (2FP) = 2-Fluorophenol (44- 95)
S6 (TBP) = 2,4,6-Tribromophenol (50-111)
S7 (2CP) = 2-Chlorophenol-d4 (45- 97) (advisory)
S8 (DCB) = 1,2-Dichlorobenzene-d4 (44-100) (advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 2
WATER PCB SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

GC Column(1): DB-1701 ID: 0.53 (mm) GC Column(2): DB-608 ID: 0.53 (mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	BBLK3J	84	79	85	84			0
02	B3JLCS	87	84	88	87			0
03	B3JLCSD	87	85	98	97			0
04	BBLK3K	77	75	69	69			0
05	B3KLCS	81	80	75	75			0
06	B3KLCSD	69	67	64	64			0
07	AOC112E1	79	79	73	71			0
08	AOC2E3	83	81	80	79			0
09	AOC13E2	79	77	71	70			0
10	AOC2E4	67	64	75	75			0
11	AOC2BB1	58	54	63	62			0
12	AOC2BB2	71	67	49	49			0
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS
S1 (TCX) = Tetrachloro-m-xylene (29-158)
S2 (DCB) = Decachlorobiphenyl (30-164)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 2
SOIL PCB SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

GC Column(1): RTXCLPPEST 2 ID: 0.53 (mm) GC Column(2): RTXCLPPEST ID: 0.53 (mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	BBLK1A	101	90	79	81			0
02	B1ALCS	104	97	83	88			0
03	BBLK1Z	115	103	94	110			0
04	B1ZLCS	123	115	98	118			0
05	12TB1524	87	79	74	92			0
06	13SSTB3435	67	59	58	70			0
07	13SSTB2413	85	75	77	92			0
08	13SSTB3124	105	96	83	104			0
09	2SSTB4724	106	95	86	107			0
10	2SSTB4802	59	51	51	61			0
11	*2SSTB4246*	147*	140	108	134			1
12	2SSD4A46	96	87	78	96			0
13	2SSD4B46	116	105	91	113			0
14	2SSTB4302	129	120	94	119			0
15	2SSTB4402	104	96	76	92			0
16	2SSTB4524	112	109	90	122			0
17	2SSTB4602	88	80	78	101			0
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS
S1 (TCX) = Tetrachloro-m-xylene (42-147)
S2 (DCB) = Decachlorobiphenyl (29-155)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 2
WATER PCB SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

GC Column(1): DB-1701 ID: 0.53 (mm) GC Column(2): DB-608 ID: 0.53 (mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	BBLK3H	86	83	62	69			0
02	B3HLCS	76	73	69	72			0
03	B3HLCSD	82	78	68	72			0
04	12TB1524	80	76	31	100			0
05	13SSTB3435	74	69	39	36			0
06	13SSTB2413	74	68	35	41			0
07	13SSTB3124	81	75	24*	31			1
08	2SSTB4724	75	70	47	48			0
09	2SSTB4802	70	65	27*	33			1
10	2SSTB4246	73	68	44	48			0
11	2SSD4A46	75	70	44	47			0
12	2SSD4B46	84	78	45	45			0
13	2SSTB4302	88	86	49	50			0
14	2SSTB4402	76	72	37	38			0
15	2SSTB4524	74	72	43	43			0
16	2SSTB4602	80	77	44	44			0
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS
S1 (TCX) = Tetrachloro-m-xylene (29-158)
S2 (DCB) = Decachlorobiphenyl (30-164)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V1OLCS Level: (low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	2500		2400	96	58-131
Chloromethane	2500		2300	92	63-120
Vinyl Chloride	2500		2200	88	61-134
Bromomethane	2500		1700	68	10-215
Chloroethane	2500		3000	120	55-146
Trichlorofluoromethane	2500		2600	104	63-126
1,1-Dichloroethene	2500		2200	88	67-127
Acetone	2500		1800	72	0-154
Methylene Chloride	2500		2100	84	62-128
trans-1,2-Dichloroethen	2500		2100	84	76-120
Methyl tert-butyl ether	2500		2200	88	52-130
1,1-Dichloroethane	2500		2100	84	74-118
2-Butanone	2500		2100	84	14-154
cis-1,2-Dichloroethene	2500		2200	88	83-115
2,2-Dichloropropane	2500		2300	92	64-125
Bromochloromethane	2500		2200	88	70-119
Chloroform	2500		2200	88	77-120
1,1,1-Trichloroethane	2500		2300	92	72-126
1,1-Dichloropropene	2500		2300	92	71-132
Carbon Tetrachloride	2500		2300	92	69-135
1,2-Dichloroethane	2500		2300	92	65-126
Benzene	2500		2100	84	78-121
Trichloroethene	2500		2400	96	75-125
1,2-Dichloropropane	2500		2200	88	78-117
Dibromomethane	2500		2300	92	65-125
Bromodichloromethane	2500		2300	92	75-118
cis-1,3-Dichloropropene	2500		2300	92	78-120
4-Methyl-2-pentanone	2500		2300	92	45-141

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V1OLCS Level: (low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Toluene	2500		2200	88	80-126
trans-1,3-Dichloroprope	2500		2300	92	73-123
1,1,2-Trichloroethane	2500		2300	92	66-125
1,3-Dichloropropane	2500		2200	88	76-119
Tetrachloroethene	2500		2300	92	65-134
2-Hexanone	2500		2200	88	37-136
Dibromochloromethane	2500		2300	92	76-115
1,2-Dibromoethane	2500		2200	88	72-117
Chlorobenzene	2500		2200	88	78-117
1,1,1,2-Tetrachloroetha	2500		2300	92	80-115
Ethylbenzene	2500		2200	88	79-129
Xylene (Total)	7500		6700	89	83-125
Styrene	2500		2400	96	83-122
Bromoform	2500		2400	96	67-126
Isopropylbenzene	2500		2300	92	80-135
1,1,2,2-Tetrachloroetha	2500		2100	84	70-117
Bromobenzene	2500		2200	88	79-119
1,2,3-Trichloropropane	2500		2200	88	0-154
n-Propylbenzene	2500		2200	88	64-141
2-Chlorotoluene	2500		2200	88	70-132
1,3,5-Trimethylbenzene	2500		2200	88	72-133
4-Chlorotoluene	2500		2200	88	77-122
tert-Butylbenzene	2500		2200	88	31-159
1,2,4-Trimethylbenzene	2500		2200	88	73-126
sec-Butylbenzene	2500		2200	88	68-137
4-Isopropyltoluene	2500		2200	88	66-131
1,3-Dichlorobenzene	2500		2200	88	75-115
1,4-Dichlorobenzene	2500		2200	88	72-110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

000175

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V1OLCS Level: (low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
n-Butylbenzene	2500		2200	88	66-130
1,2-Dichlorobenzene	2500		2200	88	78-113
1,2-Dibromo-3-chloropro	2500		2200	88	52-128
1,2,4-Trichlorobenzene	2500		2300	92	49-126
Hexachlorobutadiene	2500		2200	88	58-115
Naphthalene	2500		2200	88	45-130
1,2,3-Trichlorobenzene	2500		2300	92	44-131

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 63 outside limits

COMMENTS:

000176

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V5CLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	50		52	104	58-131
Chloromethane	50		55	110	63-120
Vinyl Chloride	50		54	108	61-134
Bromomethane	50		56	112	10-215
Chloroethane	50		57	114	55-146
Trichlorofluoromethane	50		54	108	63-126
1,1-Dichloroethene	50		52	104	67-127
Acetone	50		48	96	0-154
Methylene Chloride	50		52	104	62-128
trans-1,2-Dichloroethen	50		51	102	76-120
Methyl tert-butyl ether	50		52	104	52-130
1,1-Dichloroethane	50		51	102	74-118
2-Butanone	50		52	104	14-154
cis-1,2-Dichloroethene	50		50	100	83-115
2,2-Dichloropropane	50		51	102	64-125
Bromochloromethane	50		51	102	70-119
Chloroform	50		50	100	77-120
Tetrahydrofuran	50		54	108	70-130
1,1,1-Trichloroethane	50		51	102	72-126
1,1-Dichloropropene	50		50	100	71-132
Carbon Tetrachloride	50		50	100	69-135
1,2-Dichloroethane	50		51	102	65-126
Benzene	50		50	100	78-121
Trichloroethene	50		49	98	75-125
1,2-Dichloropropane	50		50	100	78-117
Dibromomethane	50		50	100	65-125
Bromodichloromethane	50		50	100	75-118
cis-1,3-Dichloropropene	50		49	98	78-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

000177

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V5CLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
4-Methyl-2-pentanone	50		51	102	45-141
Toluene	50		49	98	80-126
trans-1,3-Dichloroprope	50		48	96	73-123
1,1,2-Trichloroethane	50		48	96	66-125
1,3-Dichloropropane	50		50	100	76-119
Tetrachloroethene	50		50	100	65-134
2-Hexanone	50		52	104	37-136
Dibromochloromethane	50		49	98	76-115
1,2-Dibromoethane	50		49	98	72-117
Chlorobenzene	50		48	96	78-117
1,1,1,2-Tetrachloroetha	50		48	96	80-115
Ethylbenzene	50		48	96	79-129
Xylene (Total)	150		140	93	83-125
Styrene	50		48	96	83-122
Bromoform	50		49	98	67-126
Isopropylbenzene	50		48	96	80-135
1,1,2,2-Tetrachloroetha	50		46	92	70-117
Bromobenzene	50		46	92	79-119
1,2,3-Trichloropropane	50		48	96	0-154
n-Propylbenzene	50		46	92	64-141
2-Chlorotoluene	50		46	92	70-132
1,3,5-Trimethylbenzene	50		47	94	72-133
4-Chlorotoluene	50		47	94	77-122
tert-Butylbenzene	50		48	96	31-159
1,2,4-Trimethylbenzene	50		48	96	73-126
sec-Butylbenzene	50		48	96	68-137
4-Isopropyltoluene	50		49	98	66-131
1,3-Dichlorobenzene	50		47	94	75-115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

000178

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V5CLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
1,4-Dichlorobenzene	50		47	94	72-110
n-Butylbenzene	50		49	98	66-130
1,2-Dichlorobenzene	50		47	94	78-113
1,2-Dibromo-3-chloropro	50		45	90	52-128
1,2,4-Trichlorobenzene	50		45	90	49-126
Hexachlorobutadiene	50		47	94	58-115
Naphthalene	50		43	86	45-130
1,2,3-Trichlorobenzene	50		44	88	44-131
1-Chlorohexane	50		49	98	70-130
Acrylonitrile	250		270	108	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

000179

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V5CLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	50	51	102	2	40	58-131
Chloromethane	50	55	110	0	40	63-120
Vinyl Chloride	50	54	108	0	40	61-134
Bromomethane	50	56	112	0	40	10-215
Chloroethane	50	56	112	2	40	55-146
Trichlorofluoromethane	50	54	108	0	40	63-126
1,1-Dichloroethene	50	52	104	0	40	67-127
Acetone	50	49	98	2	40	0-154
Methylene Chloride	50	53	106	2	40	62-128
trans-1,2-Dichloroethen	50	51	102	0	40	76-120
Methyl tert-butyl ether	50	52	104	0	40	52-130
1,1-Dichloroethane	50	53	106	4	40	74-118
2-Butanone	50	52	104	0	40	14-154
cis-1,2-Dichloroethene	50	51	102	2	40	83-115
2,2-Dichloropropane	50	51	102	0	40	64-125
Bromochloromethane	50	51	102	0	40	70-119
Chloroform	50	52	104	4	40	77-120
Tetrahydrofuran	50	48	96	12	40	70-130
1,1,1-Trichloroethane	50	51	102	0	40	72-126
1,1-Dichloropropene	50	50	100	0	40	71-132
Carbon Tetrachloride	50	50	100	0	40	69-135
1,2-Dichloroethane	50	52	104	2	40	65-126
Benzene	50	50	100	0	40	78-121
Trichloroethene	50	50	100	2	40	75-125
1,2-Dichloropropane	50	52	104	4	40	78-117
Dibromomethane	50	51	102	2	40	65-125
Bromodichloromethane	50	51	102	2	40	75-118
cis-1,3-Dichloropropene	50	49	98	0	40	78-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

000180

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V5CLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
4-Methyl-2-pentanone	50	51	102	0	40	45-141
Toluene	50	50	100	2	40	80-126
trans-1,3-Dichloroprope	50	50	100	4	40	73-123
1,1,2-Trichloroethane	50	49	98	2	40	66-125
1,3-Dichloropropane	50	50	100	0	40	76-119
Tetrachloroethene	50	50	100	0	40	65-134
2-Hexanone	50	51	102	2	40	37-136
Dibromochloromethane	50	49	98	0	40	76-115
1,2-Dibromoethane	50	49	98	0	40	72-117
Chlorobenzene	50	49	98	2	40	78-117
1,1,1,2-Tetrachloroetha	50	48	96	0	40	80-115
Ethylbenzene	50	48	96	0	40	79-129
Xylene (Total)	150	140	93	0	40	83-125
Styrene	50	49	98	2	40	83-122
Bromoform	50	48	96	2	40	67-126
Isopropylbenzene	50	47	94	2	40	80-135
1,1,2,2-Tetrachloroetha	50	46	92	0	40	70-117
Bromobenzene	50	47	94	2	40	79-119
1,2,3-Trichloropropane	50	47	94	2	40	0-154
n-Propylbenzene	50	46	92	0	40	64-141
2-Chlorotoluene	50	46	92	0	40	70-132
1,3,5-Trimethylbenzene	50	48	96	2	40	72-133
4-Chlorotoluene	50	47	94	0	40	77-122
tert-Butylbenzene	50	48	96	0	40	31-159
1,2,4-Trimethylbenzene	50	48	96	0	40	73-126
sec-Butylbenzene	50	47	94	2	40	68-137
4-Isopropyltoluene	50	48	96	2	40	66-131
1,3-Dichlorobenzene	50	48	96	2	40	75-115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

000181

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V5CLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,4-Dichlorobenzene	50	48	96	2	40	72-110
n-Butylbenzene	50	49	98	0	40	66-130
1,2-Dichlorobenzene	50	48	96	2	40	78-113
1,2-Dibromo-3-chloropro	50	48	96	6	40	52-128
1,2,4-Trichlorobenzene	50	48	96	6	40	49-126
Hexachlorobutadiene	50	48	96	2	40	58-115
Naphthalene	50	46	92	7	40	45-130
1,2,3-Trichlorobenzene	50	48	96	9	40	44-131
1-Chlorohexane	50	48	96	2	40	70-130
Acrylonitrile	250	260	104	4	40	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 66 outside limits
Spike Recovery: 0 out of 132 outside limits

COMMENTS: _____

000182

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V6ULCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	50		58	116	48-135
Chloromethane	50		54	108	60-118
Vinyl Chloride	50		52	104	65-113
Bromomethane	50		43	86	73-122
Chloroethane	50		43	86	72-118
Trichlorofluoromethane	50		52	104	68-129
1,1-Dichloroethene	50		44	88	67-121
Acetone	50		38	76	38-161
Methylene Chloride	50		44	88	59-132
Acrylonitrile	250		220	88	45-172
trans-1,2-Dichloroethen	50		46	92	71-124
Methyl tert-butyl ether	50		43	86	75-123
1,1-Dichloroethane	50		47	94	83-116
2-Butanone	50		40	80	64-139
cis-1,2-Dichloroethene	50		47	94	83-120
2,2-Dichloropropane	50		44	88	70-129
Bromochloromethane	50		45	90	85-124
Chloroform	50		47	94	89-118
Tetrahydrofuran	50		56	112	76-126
1,1,1-Trichloroethane	50		46	92	81-122
1,1-Dichloropropene	50		47	94	76-122
Carbon Tetrachloride	50		48	96	79-125
1,2-Dichloroethane	50		47	94	83-123
Benzene	50		49	98	81-120
Trichloroethene	50		46	92	77-121
1,2-Dichloropropane	50		48	96	81-116
Dibromomethane	50		46	92	86-124
Bromodichloromethane	50		47	94	90-114

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V6ULCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
cis-1,3-Dichloropropene	50		46	92	78-119
4-Methyl-2-pentanone	50		40	80	57-138
Toluene	50		50	100	81-121
trans-1,3-Dichloroprope	50		45	90	85-118
1,1,2-Trichloroethane	50		47	94	44-159
1,3-Dichloropropane	50		49	98	79-125
Tetrachloroethene	50		46	92	73-121
2-Hexanone	50		43	86	53-145
Dibromochloromethane	50		48	96	80-124
1,2-Dibromoethane	50		47	94	80-124
Chlorobenzene	50		50	100	82-118
1,1,1,2-Tetrachloroetha	50		49	98	84-121
Ethylbenzene	50		49	98	80-122
Xylene (Total)	150		150	100	81-121
Styrene	50		51	102	77-128
Bromoform	50		48	96	77-130
Isopropylbenzene	50		53	106	58-148
1,1,2,2-Tetrachloroetha	50		51	102	76-125
Bromobenzene	50		48	96	76-124
1,2,3-Trichloropropane	50		50	100	57-140
n-Propylbenzene	50		50	100	72-119
2-Chlorotoluene	50		50	100	75-120
1,3,5-Trimethylbenzene	50		53	106	76-116
4-Chlorotoluene	50		50	100	78-116
tert-Butylbenzene	50		53	106	71-115
1,2,4-Trimethylbenzene	50		53	106	77-117
sec-Butylbenzene	50		56	112	67-117
4-Isopropyltoluene	50		54	108	68-118

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V6ULCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,3-Dichlorobenzene	50		50	100	80-116
1,4-Dichlorobenzene	50		50	100	80-114
n-Butylbenzene	50		56	112	58-121
1,2-Dichlorobenzene	50		50	100	81-116
1,2-Dibromo-3-chloropro	50		46	92	71-126
1,2,4-Trichlorobenzene	50		47	94	67-114
Hexachlorobutadiene	50		46	92	50-111
Naphthalene	50		45	90	58-133
1,2,3-Trichlorobenzene	50		47	94	64-118
1-Chlorohexane	50		47	94	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V6ULCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	50	57	114	2	40	48-135
Chloromethane	50	57	114	5	40	60-118
Vinyl Chloride	50	55	110	6	40	65-113
Bromomethane	50	49	98	13	40	73-122
Chloroethane	50	42	84	2	40	72-118
Trichlorofluoromethane	50	55	110	6	40	68-129
1,1-Dichloroethene	50	46	92	4	40	67-121
Acetone	50	36	72	5	40	38-161
Methylene Chloride	50	46	92	4	40	59-132
Acrylonitrile	250	240	96	9	40	45-172
trans-1,2-Dichloroethen	50	48	96	4	40	71-124
Methyl tert-butyl ether	50	45	90	4	40	75-123
1,1-Dichloroethane	50	48	96	2	40	83-116
2-Butanone	50	43	86	7	40	64-139
cis-1,2-Dichloroethene	50	48	96	2	40	83-120
2,2-Dichloropropane	50	48	96	9	40	70-129
Bromochloromethane	50	47	94	4	40	85-124
Chloroform	50	49	98	4	40	89-118
Tetrahydrofuran	50	57	114	2	40	76-126
1,1,1-Trichloroethane	50	48	96	4	40	81-122
1,1-Dichloropropene	50	48	96	2	40	76-122
Carbon Tetrachloride	50	49	98	2	40	79-125
1,2-Dichloroethane	50	48	96	2	40	83-123
Benzene	50	51	102	4	40	81-120
Trichloroethene	50	47	94	2	40	77-121
1,2-Dichloropropane	50	49	98	2	40	81-116
Dibromomethane	50	48	96	4	40	86-124
Bromodichloromethane	50	48	96	2	40	90-114

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V6ULCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
cis-1,3-Dichloropropene	50	47	94	2	40	78-119
4-Methyl-2-pentanone	50	43	86	7	40	57-138
Toluene	50	52	104	4	40	81-121
trans-1,3-Dichloroprope	50	48	96	6	40	85-118
1,1,2-Trichloroethane	50	48	96	2	40	44-159
1,3-Dichloropropane	50	51	102	4	40	79-125
Tetrachloroethene	50	48	96	4	40	73-121
2-Hexanone	50	46	92	7	40	53-145
Dibromochloromethane	50	50	100	4	40	80-124
1,2-Dibromoethane	50	50	100	6	40	80-124
Chlorobenzene	50	51	102	2	40	82-118
1,1,1,2-Tetrachloroetha	50	50	100	2	40	84-121
Ethylbenzene	50	50	100	2	40	80-122
Xylene (Total)	150	150	100	0	40	81-121
Styrene	50	52	104	2	40	77-128
Bromoform	50	49	98	2	40	77-130
Isopropylbenzene	50	54	108	2	40	58-148
1,1,2,2-Tetrachloroetha	50	53	106	4	40	76-125
Bromobenzene	50	50	100	4	40	76-124
1,2,3-Trichloropropane	50	52	104	4	40	57-140
n-Propylbenzene	50	52	104	4	40	72-119
2-Chlorotoluene	50	51	102	2	40	75-120
1,3,5-Trimethylbenzene	50	54	108	2	40	76-116
4-Chlorotoluene	50	51	102	2	40	78-116
tert-Butylbenzene	50	55	110	4	40	71-115
1,2,4-Trimethylbenzene	50	55	110	4	40	77-117
sec-Butylbenzene	50	58	116	4	40	67-117
4-Isopropyltoluene	50	56	112	4	40	68-118

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V6ULCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,3-Dichlorobenzene	50	51	102	2	40	80-116
1,4-Dichlorobenzene	50	52	104	4	40	80-114
n-Butylbenzene	50	58	116	4	40	58-121
1,2-Dichlorobenzene	50	51	102	2	40	81-116
1,2-Dibromo-3-chloropro	50	48	96	4	40	71-126
1,2,4-Trichlorobenzene	50	49	98	4	40	67-114
Hexachlorobutadiene	50	47	94	2	40	50-111
Naphthalene	50	47	94	4	40	58-133
1,2,3-Trichlorobenzene	50	48	96	2	40	64-118
1-Chlorohexane	50	49	98	4	40	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 66 outside limits
Spike Recovery: 0 out of 132 outside limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3PLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Phenol	1700		1400	82	45-109
bis(2-Chloroethyl)Ether	1700		1300	76	43-104
2-Chlorophenol	1700		1400	82	43-107
1,3-Dichlorobenzene	1700		1300	76	40-101
1,4-Dichlorobenzene	1700		1300	76	41-102
1,2-Dichlorobenzene	1700		1400	82	41-105
2-Methylphenol	1700		1500	88	45-108
2,2'-oxybis(1-Chloropro	1700		1200	70	41-105
4-Methylphenol	1700		1400	82	48-109
N-Nitroso-di-n-prop.(1)	1700		1600	94	44-111
Hexachloroethane	1700		1300	76	40-102
Nitrobenzene	1700		1200	70	44-108
Isophorone	1700		1400	82	42-113
2-Nitrophenol	1700		1400	82	42-111
2,4-Dimethylphenol	1700		1200	70	37-107
2,4-Dichlorophenol	1700		1500	88	49-110
1,2,4-Trichlorobenzene	1700		1500	88	42-107
Naphthalene	1700		1400	82	44-112
4-Chloroaniline	1700		470	28	4-102
bis(2-Chloroethoxy)meth	1700		1400	82	46-108
Hexachlorobutadiene	1700		1600	94	41-108
4-Chloro-3-Methylphenol	1700		1400	82	56-117
2-Methylnaphthalene	1700		1400	82	46-110
Hexachlorocyclopentadie	1700		1100	65	10-118
2,4,6-Trichlorophenol	1700		1500	88	53-115
2,4,5-Trichlorophenol	1700		1500	88	59-113
2-Chloronaphthalene	1700		1200	70	52-112
2-Nitroaniline	1700		1200	70	63-117

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3PLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Dimethylphthalate	1700		1500	88	62-117
Acenaphthylene	1700		1400	82	58-112
2,6-Dinitrotoluene	1700		1400	82	60-118
3-Nitroaniline	1700		900	53	30-117
Acenaphthene	1700		1400	82	53-116
2,4-Dinitrophenol	1700		1400	82	15-136
4-Nitrophenol	1700		1200	70	50-129
Dibenzofuran	1700		1300	76	61-112
2,4-Dinitrotoluene	1700		1400	82	59-123
Diethylphthalate	1700		1400	82	61-120
4-Chlorophenyl-phenylet	1700		1400	82	59-116
Fluorene	1700		1300	76	63-115
4-Nitroaniline	1700		980	58	35-124
4,6-Dinitro-2-methylphe	1700		1500	88	33-130
N-Nitrosodiphenylamine	1700		1400	82	50-150
4-Bromophenyl-phenyleth	1700		1500	88	66-110
Hexachlorobenzene	1700		1600	94	67-112
Pentachlorophenol	1700		1600	94	19-130
Phenanthrene	1700		1400	82	70-115
Anthracene	1700		1400	82	63-117
Carbazole	1700		1500	88	62-122
Di-n-butylphthalate	1700		1500	88	70-120
Fluoranthene	1700		1500	88	64-121
Pyrene	1700		1500	88	66-120
Butylbenzylphthalate	1700		1500	88	63-123
3,3'-Dichlorobenzidine	1700		1100	65	8-124
Benzo(a)anthracene	1700		1500	88	50-129
Chrysene	1700		1400	82	41-150

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3PLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
bis(2-Ethylhexyl)phthal	1700		1400	82	64-115
Di-n-octylphthalate	1700		1500	88	69-137
Benzo(b)fluoranthene	1700		1500	88	61-129
Benzo(k)fluoranthene	1700		1700	100	62-130
Benzo(a)pyrene	1700		1500	88	66-119
Indeno(1,2,3-cd)pyrene	1700		1400	82	56-128
Dibenzo(a,h)anthracene	1700		1400	82	58-128
Benzo(g,h,i)perylene	1700		1400	82	32-149

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3PLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	1700	1300	76	8	40	45-109
bis(2-Chloroethyl)Ether	1700	1200	70	8	40	43-104
2-Chlorophenol	1700	1300	76	8	40	43-107
1,3-Dichlorobenzene	1700	1200	70	8	40	40-101
1,4-Dichlorobenzene	1700	1200	70	8	40	41-102
1,2-Dichlorobenzene	1700	1300	76	8	40	41-105
2-Methylphenol	1700	1400	82	7	40	45-108
2,2'-oxybis(1-Chloropro	1700	1100	65	7	40	41-105
4-Methylphenol	1700	1300	76	8	40	48-109
N-Nitroso-di-n-prop.(1)	1700	1400	82	14	40	44-111
Hexachloroethane	1700	1200	70	8	40	40-102
Nitrobenzene	1700	1100	65	7	40	44-108
Isophorone	1700	1200	70	16	40	42-113
2-Nitrophenol	1700	1200	70	16	40	42-111
2,4-Dimethylphenol	1700	1200	70	0	40	37-107
2,4-Dichlorophenol	1700	1400	82	7	40	49-110
1,2,4-Trichlorobenzene	1700	1400	82	7	40	42-107
Naphthalene	1700	1300	76	8	40	44-112
4-Chloroaniline	1700	540	32	13	40	4-102
bis(2-Chloroethoxy)meth	1700	1300	76	8	40	46-108
Hexachlorobutadiene	1700	1400	82	14	40	41-108
4-Chloro-3-Methylphenol	1700	1400	82	0	40	56-117
2-Methylnaphthalene	1700	1300	76	8	40	46-110
Hexachlorocyclopentadie	1700	990	58	11	40	10-118
2,4,6-Trichlorophenol	1700	1400	82	7	40	53-115
2,4,5-Trichlorophenol	1700	1400	82	7	40	59-113
2-Chloronaphthalene	1700	1100	65	7	40	52-112
2-Nitroaniline	1700	1100	65	7	40	63-117

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3PLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dimethylphthalate	1700	1400	82	7	40	62-117
Acenaphthylene	1700	1300	76	8	40	58-112
2,6-Dinitrotoluene	1700	1400	82	0	40	60-118
3-Nitroaniline	1700	930	55	4	40	30-117
Acenaphthene	1700	1300	76	8	40	53-116
2,4-Dinitrophenol	1700	1400	82	0	40	15-136
4-Nitrophenol	1700	1100	65	7	40	50-129
Dibenzofuran	1700	1300	76	0	40	61-112
2,4-Dinitrotoluene	1700	1300	76	8	40	59-123
Diethylphthalate	1700	1400	82	0	40	61-120
4-Chlorophenyl-phenylet	1700	1300	76	8	40	59-116
Fluorene	1700	1300	76	0	40	63-115
4-Nitroaniline	1700	1000	59	2	40	35-124
4,6-Dinitro-2-methylphe	1700	1400	82	7	40	33-130
N-Nitrosodiphenylamine	1700	1300	76	8	40	50-150
4-Bromophenyl-phenyleth	1700	1400	82	7	40	66-110
Hexachlorobenzene	1700	1600	94	0	40	67-112
Pentachlorophenol	1700	1500	88	6	40	19-130
Phenanthrene	1700	1400	82	0	40	70-115
Anthracene	1700	1400	82	0	40	63-117
Carbazole	1700	1400	82	7	40	62-122
Di-n-butylphthalate	1700	1400	82	7	40	70-120
Fluoranthene	1700	1500	88	0	40	64-121
Pyrene	1700	1400	82	7	40	66-120
Butylbenzylphthalate	1700	1500	88	0	40	63-123
3,3'-Dichlorobenzidine	1700	1200	70	7	40	8-124
Benzo(a)anthracene	1700	1500	88	0	40	50-129
Chrysene	1700	1400	82	0	40	41-150

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3PLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
bis(2-Ethylhexyl)phthal	1700	1400	82	0	40	64-115
Di-n-octylphthalate	1700	1500	88	0	40	69-137
Benzo(b)fluoranthene	1700	1400	82	7	40	61-129
Benzo(k)fluoranthene	1700	1600	94	6	40	62-130
Benzo(a)pyrene	1700	1500	88	0	40	66-119
Indeno(1,2,3-cd)pyrene	1700	1400	82	0	40	56-128
Dibenzo(a,h)anthracene	1700	1400	82	0	40	58-128
Benzo(g,h,i)perylene	1700	1400	82	0	40	32-149

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 64 outside limits
Spike Recovery: 0 out of 128 outside limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3XLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Phenol	50		12	24	0-127
bis(2-Chloroethyl)Ether	50		39	78	46-109
2-Chlorophenol	50		36	72	22-117
1,3-Dichlorobenzene	50		38	76	28-103
1,4-Dichlorobenzene	*50*		*38*	*76*	*28-104*
1,2-Dichlorobenzene	50		39	78	29-107
2-Methylphenol	50		32	64	40-104
2,2'-oxybis(1-Chloropro	50		42	84	10-134
4-Methylphenol	50		28	56	35-106
N-Nitroso-di-n-prop.(1)	50		44	88	44-122
Hexachloroethane	50		39	78	24-104
Nitrobenzene	50		42	84	47-112
Isophorone	50		43	86	48-118
2-Nitrophenol	50		42	84	29-122
2,4-Dimethylphenol	50		38	76	14-109
2,4-Dichlorophenol	50		41	82	31-122
1,2,4-Trichlorobenzene	50		39	78	33-108
Naphthalene	50		43	86	38-117
4-Chloroaniline	50		14	28	0-152
bis(2-Chloroethoxy)meth	50		43	86	49-112
Hexachlorobutadiene	50		38	76	28-109
4-Chloro-3-Methylphenol	50		41	82	48-117
2-Methylnaphthalene	*50*		*42*	*84*	*43-113*
Hexachlorocyclopentadie	50		39	78	34-103
2,4,6-Trichlorophenol	50		42	84	34-127
2,4,5-Trichlorophenol	50		42	84	32-131
2-Chloronaphthalene	50		38	76	47-116
2-Nitroaniline	50		44	88	51-120

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3XLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dimethylphthalate	50		45	90	53-124
Acenaphthylene	50		43	86	50-119
2,6-Dinitrotoluene	50		43	86	52-122
3-Nitroaniline	50		37	74	47-115
Acenaphthene	50		44	88	50-121
2,4-Dinitrophenol	50		30	60	0-144
4-Nitrophenol	50		12	24	0-160
Dibenzofuran	50		43	86	51-122
2,4-Dinitrotoluene	50		44	88	52-126
Diethylphthalate	50		44	88	53-126
4-Chlorophenyl-phenylet	50		42	84	50-124
Fluorene	50		44	88	52-125
4-Nitroaniline	50		38	76	47-117
4,6-Dinitro-2-methylphe	50		39	78	3-151
N-Nitrosodiphenylamine	50		44	88	50-150
4-Bromophenyl-phenyleth	50		41	82	51-124
Hexachlorobenzene	50		43	86	52-124
Pentachlorophenol	50		39	78	5-125
Phenanthrene	50		45	90	52-128
Anthracene	50		46	92	52-127
Carbazole	50		48	96	54-126
Di-n-butylphthalate	50		46	92	56-132
Fluoranthene	50		46	92	53-130
Pyrene	50		45	90	53-131
Butylbenzylphthalate	50		48	96	54-128
3,3'-Dichlorobenzidine	50		42	84	41-117
Benzo(a)anthracene	50		46	92	56-124
Chrysene	50		45	90	53-123

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3XLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
bis(2-Ethylhexyl)phthal	50		44	88	56-127
Di-n-octylphthalate	50		47	94	59-138
Benzo(b)fluoranthene	50		43	86	58-126
Benzo(k)fluoranthene	50		50	100	60-124
Benzo(a)pyrene	50		45	90	61-121
Indeno(1,2,3-cd)pyrene	50		44	88	23-152
Dibenzo(a,b)anthracene	*50*		*44*	*88*	*60-122*
Benzo(g,h,i)perylene	50		43	86	57-124

(1) N-Nitroso-di-n-propylamine

 # Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3XLCS

COMPOUND	SPIKE ADDED *(ug/L)*	LCSD CONCENTRATION *(ug/L)*	LCSD % *REC #*	% *RPD #*	QC LIMITS *RPD*	QC LIMITS *REC.*
Phenol	50	13	26	8	40	0-127
bis(2-Chloroethyl)Ether	50	38	76	2	40	46-109
2-Chlorophenol	50	36	72	0	40	22-117
1,3-Dichlorobenzene	50	37	74	3	40	28-103
1,4-Dichlorobenzene	50	37	74	3	40	28-104
1,2-Dichlorobenzene	50	37	74	5	40	29-107
2-Methylphenol	50	32	64	0	40	40-104
2,2'-oxybis(1-Chloropro	50	41	82	2	40	10-134
4-Methylphenol	50	28	56	0	40	35-106
N-Nitroso-di-n-prop.(1)	50	44	88	0	40	44-122
Hexachloroethane	50	38	76	2	40	24-104
Nitrobenzene	50	40	80	5	40	47-112
Isophorone	50	41	82	5	40	48-118
2-Nitrophenol	50	40	80	5	40	29-122
2,4-Dimethylphenol	50	37	74	3	40	14-109
2,4-Dichlorophenol	50	40	80	2	40	31-122
1,2,4-Trichlorobenzene	*50*	*38*	*76*	*2*	*40*	*33-108*
Naphthalene	50	41	82	5	40	38-117
4-Chloroaniline	50	14	28	0	40	0-152
bis(2-Chloroethoxy)meth	50	42	84	2	40	49-112
Hexachlorobutadiene	50	36	72	5	40	28-109
4-Chloro-3-Methylphenol	50	40	80	2	40	48-117
2-Methylnaphthalene	50	40	80	5	40	43-113
Hexachlorocyclopentadie	50	37	74	5	40	34-103
2,4,6-Trichlorophenol	50	41	82	2	40	34-127
2,4,5-Trichlorophenol	50	42	84	0	40	32-131
2-Chloronaphthalene	50	37	74	3	40	47-116
2-Nitroaniline	50	44	88	0	40	51-120

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3XLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dimethylphthalate	50	44	88	2	40	53-124
Acenaphthylene	50	42	84	2	40	50-119
2,6-Dinitrotoluene	50	42	84	2	40	52-122
3-Nitroaniline	50	37	74	0	40	47-115
Acenaphthene	50	43	86	2	40	50-121
2,4-Dinitrophenol	50	30	60	0	40	0-144
4-Nitrophenol	50	13	26	8	40	0-160
Dibenzofuran	50	42	84	2	40	51-122
2,4-Dinitrotoluene	50	43	86	2	40	52-126
Diethylphthalate	50	43	86	2	40	53-126
4-Chlorophenyl-phenylet	50	41	82	2	40	50-124
Fluorene	50	43	86	2	40	52-125
4-Nitroaniline	50	37	74	3	40	47-117
4,6-Dinitro-2-methylphe	50	37	74	5	40	3-151
N-Nitrosodiphenylamine	50	43	86	2	40	50-150
4-Bromophenyl-phenyleth	50	39	78	5	40	51-124
Hexachlorobenzene	50	42	84	2	40	52-124
Pentachlorophenol	50	39	78	0	40	5-125
Phenanthrene	50	44	88	2	40	52-128
Anthracene	50	45	90	2	40	52-127
Carbazole	50	47	94	2	40	54-126
Di-n-butylphthalate	50	45	90	2	40	56-132
Fluoranthene	50	45	90	2	40	53-130
Pyrene	50	44	88	2	40	53-131
Butylbenzylphthalate	50	47	94	2	40	54-128
3,3'-Dichlorobenzidine	50	41	82	2	40	41-117
Benzo(a)anthracene	50	44	88	4	40	56-124
Chrysene	50	44	88	2	40	53-123

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3XLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
bis(2-Ethylhexyl)phthal	50	43	86	2	40	56-127
Di-n-octylphthalate	50	45	90	4	40	59-138
Benzo(b)fluoranthene	50	42	84	2	40	58-126
Benzo(k)fluoranthene	50	48	96	4	40	60-124
Benzo(a)pyrene	*50*	*43*	*86*	*4*	*40*	*61-122*
Indeno(1,2,3-cd)pyrene	50	42	84	5	40	23-152
Dibenzo(a,h)anthracene	50	42	84	5	40	60-122
Benzo(g,h,i)perylene	50	42	84	2	40	57-124

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 64 outside limits
Spike Recovery: 0 out of 128 outside limits

COMMENTS:

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3ZLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Phenol	50		13	26	0-127
bis(2-Chloroethyl)Ether	50		35	70	46-109
2-Chlorophenol	50		37	74	22-117
1,3-Dichlorobenzene	50		36	72	28-103
1,4-Dichlorobenzene	50		36	72	28-104
1,2-Dichlorobenzene	50		36	72	29-107
2-Methylphenol	50		33	66	40-104
2,2'-oxybis(1-Chloropro	50		41	82	10-134
4-Methylphenol	50		28	56	35-106
N-Nitroso-di-n-prop.(1)	50		40	80	44-122
Hexachloroethane	50		35	70	24-104
Nitrobenzene	50		36	72	47-112
Isophorone	50		38	76	48-118
2-Nitrophenol	50		41	82	29-122
2,4-Dimethylphenol	50		30	60	14-109
2,4-Dichlorophenol	50		41	82	31-122
1,2,4-Trichlorobenzene	50		38	76	33-108
Naphthalene	50		40	80	38-117
4-Chloroaniline	50		9	18	0-152
bis(2-Chloroethoxy)meth	50		39	78	49-112
Hexachlorobutadiene	50		34	68	28-109
4-Chloro-3-Methylphenol	50		40	80	48-117
2-Methylnaphthalene	50		40	80	43-113
Hexachlorocyclopentadie	50		23	46	34-103
2,4,6-Trichlorophenol	50		41	82	34-127
2,4,5-Trichlorophenol	50		42	84	32-131
2-Chloronaphthalene	50		36	72	47-116
2-Nitroaniline	50		40	80	51-120

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3ZLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dimethylphthalate	50		44	88	53-124
Acenaphthylene	50		41	82	50-119
2,6-Dinitrotoluene	50		43	86	52-122
3-Nitroaniline	50		38	76	47-115
Acenaphthene	50		41	82	50-121
2,4-Dinitrophenol	50		40	80	0-144
4-Nitrophenol	50		14	28	0-160
Dibenzofuran	50		41	82	51-122
2,4-Dinitrotoluene	50		44	88	52-126
Diethylphthalate	50		44	88	53-126
4-Chlorophenyl-phenylet	50		39	78	50-124
Fluorene	50		41	82	52-125
4-Nitroaniline	50		42	84	47-117
4,6-Dinitro-2-methylphe	50		44	88	3-151
N-Nitrosodiphenylamine	50		41	82	50-150
4-Bromophenyl-phenyleth	50		38	76	51-124
Hexachlorobenzene	50		44	88	52-124
Pentachlorophenol	50		43	86	5-125
Phenanthrene	50		44	88	52-128
Anthracene	50		42	84	52-127
Carbazole	50		50	100	54-126
Di-n-butylphthalate	50		46	92	56-132
Fluoranthene	50		44	88	53-130
Pyrene	50		47	94	53-131
Butylbenzylphthalate	50		53	106	54-128
3,3'-Dichlorobenzidine	50		37	74	41-117
Benzo(a)anthracene	50		44	88	56-124
Chrysene	50		45	90	53-123

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3ZLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
bis(2-Ethylhexyl)phthal	50		48	96	56-127
Di-n-octylphthalate	50		48	96	59-138
Benzo(b)fluoranthene	50		44	88	58-126
Benzo(k)fluoranthene	50		50	100	60-124
Benzo(a)pyrene	50		45	90	61-121
Indeno(1,2,3-cd)pyrene	50		44	88	23-152
Dibenzo(a,h)anthracene	50		44	88	60-122
Benzo(g,h,i)perylene	50		45	90	57-124

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 64 outside limits

COMMENTS: _____

FORM 3
WATER PCB LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: B3JLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Aroclor-1016	2.5		2.2	88	45-162
Aroclor-1260	2.5		2.2	88	54-159

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	2.5	2.5	100	13	40	45-162
Aroclor-1260	2.5	2.5	100	13	40	*54-159*

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM 3
WATER PCB LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: B3KLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Aroclor-1016	10		8.4	84	45-162
Aroclor-1260	10		7.8	78	54-159

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	10	7.2	72	15	40	45-162
Aroclor-1260	10	6.7	67	15	40	54-159

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM 3
SOIL PCB LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: B1ALCS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aroclor-1016	330		340	103	62-155
Aroclor-1260	330		330	100	56-173

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

FORM 3
SOIL PCB LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: B1ZLCS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aroclor-1016	330		410	124	62-155
Aroclor-1260	330		410	124	56-173

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

FORM III PCB

FORM 3
WATER PCB LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: B3HLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Aroclor-1016	33		29	88	45-162
Aroclor-1260	33		28	85	54-159

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	33	29	88	0	40	45-162
Aroclor-1260	33	27	82	4	40	54-159

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM III PCB

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.
12SSTB902D

Lab Name: MITKEM_CORPORATION Contract: _____

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: A1627

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead								NR
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel		1.0000	U	1.0000	U			P
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

FORM VI - IN SW846

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK10

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID: V1F1082 Lab Sample ID: V1B1118A

Date Analyzed: 11/18/02 Time Analyzed: 1152

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: V1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V1OLCS	V1L1118B	V1F1085	1321
02	13SSTB3435DL	A1627-29A	V1F1100	2036
03	13SSTB2413DL	A1627-30A	V1F1101	2104
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

FORM IV VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK1O

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: V1B1118A
Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1082
Level: (low/med) MED Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 11/18/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	250	U
74-87-3	Chloromethane	250	U
75-01-4	Vinyl Chloride	250	U
74-83-9	Bromomethane	250	U
75-00-3	Chloroethane	250	U
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	250	U
67-64-1	Acetone	250	U
75-09-2	Methylene Chloride	250	U
107-13-1	Acrylonitrile	250	U
156-60-5	trans-1,2-Dichloroethene	250	U
1634-04-4	Methyl tert-butyl ether	250	U
75-34-3	1,1-Dichloroethane	250	U
78-93-3	2-Butanone	250	U
156-59-2	cis-1,2-Dichloroethene	250	U
590-20-7	2,2-Dichloropropane	250	U
74-97-5	Bromochloromethane	250	U
67-66-3	Chloroform	250	U
109-99-9	Tetrahydrofuran	250	U
71-55-6	1,1,1-Trichloroethane	250	U
563-58-6	1,1-Dichloropropene	250	U
56-23-5	Carbon Tetrachloride	250	U
107-06-2	1,2-Dichloroethane	250	U
71-43-2	Benzene	250	U
79-01-6	Trichloroethene	53	J
78-87-5	1,2-Dichloropropane	250	U
74-95-3	Dibromomethane	250	U
75-27-4	Bromodichloromethane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-10-1	4-Methyl-2-pentanone	250	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
79-00-5	1,1,2-Trichloroethane	250	U
142-28-9	1,3-Dichloropropane	250	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK1O

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: V1B1118A
Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1082
Level: (low/med) MED Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 11/18/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
127-18-4	Tetrachloroethene	250	U
591-78-6	2-Hexanone	250	U
124-48-1	Dibromochloromethane	250	U
106-93-4	1,2-Dibromoethane	250	U
108-90-7	Chlorobenzene	250	U
630-20-6	1,1,1,2-Tetrachloroethane	250	U
100-41-4	Ethylbenzene	250	U
	m,p-Xylene	250	U
95-47-6	o-Xylene	250	U
1330-20-7	Xylene (Total)	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
98-82-8	Isopropylbenzene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
108-86-1	Bromobenzene	250	U
96-18-4	1,2,3-Trichloropropane	250	U
103-65-1	n-Propylbenzene	250	U
95-49-8	2-Chlorotoluene	250	U
108-67-8	1,3,5-Trimethylbenzene	250	U
106-43-4	4-Chlorotoluene	250	U
98-06-6	tert-Butylbenzene	250	U
95-63-6	1,2,4-Trimethylbenzene	250	U
135-98-8	sec-Butylbenzene	250	U
99-87-6	4-Isopropyltoluene	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
104-51-8	n-Butylbenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U
87-68-3	Hexachlorobutadiene	150	J
91-20-3	Naphthalene	250	U
87-61-6	1,2,3-Trichlorobenzene	250	U
544-10-5	1-Chlorohexane	250	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK1O

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: V1B1118A
Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1082
Level: (low/med) MED Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 11/18/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK5C

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Lab File ID: V5E1626 Lab Sample ID: V5B1115B
Date Analyzed: 11/15/02 Time Analyzed: 2134
GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y
Instrument ID: V5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V5CLCS	V5L1115B	V5E1627	2203
02	V5CLCSD	V5L1115C	V5E1628	2233
03	12TB1524	A1627-02B	V5E1629	2302
04	13SSTB3435	A1627-29B	V5E1631	0016
05	13SSTB2413	A1627-30B	V5E1632	0048
06	13SSTB3124	A1627-31B	V5E1634	0152
07	12TB1068	A1627-03B	V5E1635	0221
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK5C

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: V5B1115B

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E1626

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/15/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK5C

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: V5B1115B

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E1626

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/15/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U
107-13-1	Acrylonitrile	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK5C

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: V5B1115B

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E1626

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/15/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK6U

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID: V6C3692 Lab Sample ID: V6B1114A

Date Analyzed: 11/14/02 Time Analyzed: 1157

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: V6

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V6ULCS	V6L1114A	V6C3695	1427
02	V6ULCSD	V6L1114B	V6C3696	1454
03	AOC112T1	A1627-06A	V6C3697	1521
04	AOC112E1	A1627-07A	V6C3698	1549
05	AOC2E3	A1627-13A	V6C3699	1616
06	AOC13E2	A1627-25A	V6C3700	1644
07	AOC2E4	A1627-51A	V6C3703	1820
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: VBLK6U

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: V6B1114A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3692

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/14/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U

FORM I VOA OLM03.0

000219

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: VBLK6U

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: V6B1114A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3692

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/14/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000220

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: VBLK6U

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: V6B1114A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3692

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/14/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0

000221

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.: SBLK3M

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID: S3C0346 Lab Sample ID: MB-4337

Instrument ID: S3 Date Extracted: 11/13/02

Matrix: (soil/water) WATER Date Analyzed: 11/19/02

Level: (low/med) LOW Time Analyzed: 1142

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	S3MLCS	LCS-4337	S3C0347	11/19/02
02	S3MLCSD	LCSD-4337	S3C0348	11/19/02
03	AOC2BB1	A1627-036C	S3C0349	11/19/02
04	AOC2BB2	A1627-037C	S3C0352	11/19/02
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

FORM IV SV OLM03.0

000222

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK3M

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: MB-4337
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0346
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/13/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/19/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1 OLM03.0

000223

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK3M

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: MB-4337
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0346
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/13/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/19/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

000224

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SBLK3M

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: MB-4337
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0346
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/13/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/19/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC OLM03.0

000225

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
SBLK3P

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Lab File ID: S3C0376 Lab Sample ID: MB-4285
Instrument ID: S3 Date Extracted: 11/12/02
Matrix: (soil/water) SOIL Date Analyzed: 11/21/02
Level: (low/med) LOW Time Analyzed: 1204

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	12TB1524	A1627-02C	S3C0338	11/18/02
02	12TB1068	A1627-03C	S3C0339	11/18/02
03	13SSTB3435	A1627-29C	S3C0340	11/18/02
04	13SSTB2413	A1627-30C	S3C0341	11/18/02
05	13SSTB3124	A1627-31C	S3C0353	11/19/02
06	S3PLCS	LCS-4285	S3C0377	11/21/02
07	S3PLCSD	LCSD-4285	S3C0378	11/21/02
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

FORM IV SV OLM03.0

000226

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK3P

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: MB-4285
Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3C0376
Level: (low/med) LOW Date Received: _____
% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/21/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	670	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	670	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	670	U
83-32-9	Acenaphthene	330	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK3P

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: MB-4285
Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3C0376
Level: (low/med) LOW Date Received: _____
% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/21/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	670	U
100-02-7	4-Nitrophenol	670	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	670	U
534-52-1	4,6-Dinitro-2-methylphenol	670	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	670	U
85-01-8	Phenanthrene	330	U
120-12-7	*Anthracene*	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SBLK3P

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: MB-4285
Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3C0376
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/21/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	141-79-7	3-PENTEN-2-ONE, 4-METHYL-	3.60	290	NJ
2.		UNKNOWN	5.03	190	J
3.		UNKNOWN	5.54	4500	J
4.		UNKNOWN	6.58	840	J
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
SBLK3X

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Lab File ID: S3C0261 Lab Sample ID: MB-4279
Instrument ID: S3 Date Extracted: 11/11/02
Matrix: (soil/water) WATER Date Analyzed: 11/13/02
Level: (low/med) LOW Time Analyzed: 1437

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	S3XLCS	LCS-4279	S3C0262	11/13/02
02	S3XLCSD	LCSD-4279	S3C0264	11/13/02
03	AOC112E1	A1627-07D	S3C0265	11/13/02
04	AOC2E3	A1627-13D	S3C0266	11/13/02
05	AOC13E2	A1627-25D	S3C0267	11/13/02
06	AOC2E4	A1627-51D	S3C0268	11/13/02
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK3X

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: MB-4279
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0261
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroanilline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK3X

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: MB-4279
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0261
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SBLK3X

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: MB-4279
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0261
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
SBLK3Z

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Lab File ID: S3C0453 Lab Sample ID: MB-4362
Instrument ID: S3 Date Extracted: 11/14/02
Matrix: (soil/water) WATER Date Analyzed: 11/25/02
Level: (low/med) LOW Time Analyzed: 1911

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	AOC2BB1	A1627-36C	S3C0349	11/19/02
02	AOC2BB2	A1627-37C	S3C0352	11/19/02
03	S3ZLCS	LCS-4362	S3C0454	11/25/02
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK3Z

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: MB-4362
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0453
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/14/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/25/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1 OLM03.0

000235

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK3Z

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: MB-4362
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0453
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/14/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/25/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

000236

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SBLK3Z

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: MB-4362
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0453
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/14/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/25/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC OLM03.0

000237

FORM 4
PCB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.
BBLK3J

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Lab Sample ID: MB-4333 Lab File ID: E3D8194F
Matrix (soil/water) WATER Extraction:(SepF/Cont/Sonc) SEPF
Sulfur Cleanup (Y/N) Y Date Extracted: 11/13/02
Date Analyzed (1): 11/23/02 Date Analyzed (2): 11/23/02
Time Analyzed (1): 0716 Time Analyzed (2): 0716
Instrument ID (1): E3 Instrument ID (2): E3
GC Column (1): DB-1701 ID: 0.53(mm) GC Column (2): DB-608 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	B3JLCS	LCS-4333	11/23/02	11/23/02
02	B3JLCSD	LCSD-4333	11/23/02	11/23/02
03	AOC2BB1	A1627-36C	11/23/02	11/23/02
04	AOC2BB2	A1627-37C	11/23/02	11/23/02
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM IV PCB

000238

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
BBLK3J

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: MB-4333
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E3D8194F
% Moisture: _____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/13/02
Concentrated Extract Volume: 2500(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.25	U
11104-28-2	Aroclor-1221	0.25	U
11141-16-5	Aroclor-1232	0.25	U
53469-21-9	Aroclor-1242	0.25	U
12672-29-6	Aroclor-1248	0.25	U
11097-69-1	Aroclor-1254	0.25	U
11096-82-5	Aroclor-1260	0.25	U

FORM I PCB

FORM 4
PCB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.
BBLK3K

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Lab Sample ID: MB-4280 Lab File ID: E3D8197F
Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc) SEPF
Sulfur Cleanup (Y/N) Y Date Extracted: 11/11/02
Date Analyzed (1): 11/23/02 Date Analyzed (2): 11/23/02
Time Analyzed (1): 0911 Time Analyzed (2): 0911
Instrument ID (1): E3 Instrument ID (2): E3
GC Column (1): DB-1701 ID: 0.53(mm) GC Column (2): DB-608 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	B3KLCS	LCS-4280	11/23/02	11/23/02
02	B3KLCSD	LCSD-4280	11/23/02	11/23/02
03	AOC112E1	A1627-07D	11/23/02	11/23/02
04	AOC2E3	A1627-13D	11/23/02	11/23/02
05	AOC13E2	A1627-25D	11/23/02	11/23/02
06	AOC2E4	A1627-51D	11/23/02	11/23/02
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM IV PCB

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
BBLK3K

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: MB-4280
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E3D8197F
% Moisture: _____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/11/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

FORM 4
PCB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.
BBLK1A

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Lab Sample ID: MB-4149 Lab File ID: E1D7921F
Matrix (soil/water) SOIL Extraction: (SepF/Cont/Sonc) SONC
Sulfur Cleanup (Y/N) Y Date Extracted: 11/11/02
Date Analyzed (1): 11/20/02 Date Analyzed (2): 11/20/02
Time Analyzed (1): 1025 Time Analyzed (2): 1025
Instrument ID (1): E1 Instrument ID (2): E1
GC Column (1): RTXCLPPEST 2 ID: 0.53(mm) GC Column (2): RTXCLPPEST ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	B1ALCS	LCS-4149	11/20/02	11/20/02
02	12TB1524	A1627-02C	11/22/02	11/22/02
03	13SSTB3435	A1627-29C	11/22/02	11/22/02
04	13SSTB2413	A1627-30C	11/22/02	11/22/02
05	13SSTB3124	A1627-31C	11/22/02	11/22/02
06	2SSTB4724	A1627-42A	11/22/02	11/22/02
07	2SSTB4802	A1627-43A	11/22/02	11/22/02
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM IV PCB

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
BBLK1A

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: MB-4149

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E1D7921F

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/11/02

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/20/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

FORM I PCB

000243

FORM 4
PCB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.
BBLK1Z

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab Sample ID: MB-4254 Lab File ID: E1D8004F

Matrix (soil/water) SOIL Extraction: (SepF/Cont/Sonc) PFE

Sulfur Cleanup (Y/N) Y Date Extracted: 11/13/02

Date Analyzed (1): 11/22/02 Date Analyzed (2): 11/22/02

Time Analyzed (1): 1607 Time Analyzed (2): 1607

Instrument ID (1): E1 Instrument ID (2): E1

GC Column (1): RTXCLPPEST 2 ID: 0.53(mm) GC Column (2): RTXCLPPRST ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	B1ZLCS	LCS-4254	11/22/02	11/22/02
02	2SSTB4246	A1627-50A	11/23/02	11/23/02
03	2SSD4A46	A1627-54A	11/23/02	11/23/02
04	2SSD4B46	A1627-55A	11/23/02	11/23/02
05	2SSTB4302	A1627-56A	11/23/02	11/23/02
06	2SSTB4402	A1627-57A	11/23/02	11/23/02
07	2SSTB4524	A1627-58A	11/23/02	11/23/02
08	2SSTB4602	A1627-59A	11/23/02	11/23/02
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM IV PCB

000244

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
BBLK1Z

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: MB-4254

Sample wt/vol: 15.0 (g/mL) G Lab File ID: E1D8004F

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) PFE Date Extracted: 11/13/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/22/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

FORM I PCB

000245

FORM 4
PCB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.
BBLK3H

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab Sample ID: MB-4344 Lab File ID: E3D8153F

Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc) SKPF

Sulfur Cleanup (Y/N) Y Date Extracted: 11/20/02

Date Analyzed (1): 11/22/02 Date Analyzed (2): 11/22/02

Time Analyzed (1): 0440 Time Analyzed (2): 0440

Instrument ID (1): E3 Instrument ID (2): E3

GC Column (1): DB-1701 ID: 0.53(mm) GC Column (2): DB-608 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	B3HLCS	LCS-4344	11/22/02	11/22/02
02	B3HLCSD	LCSD-4344	11/22/02	11/22/02
03	12TB1524	A1627-02C	11/22/02	11/22/02
04	13SSTB3435	A1627-29C	11/22/02	11/22/02
05	*13SSTB2413*	*A1627-30C*	*11/22/02*	*11/22/02*
06	13SSTB3124	A1627-31C	11/22/02	11/22/02
07	2SSTB4724	A1627-42A	11/22/02	11/22/02
08	2SSTB4802	A1627-43A	11/22/02	11/22/02
09	2SSTB4246	A1627-50A	11/22/02	11/22/02
10	2SSD4A46	A1627-54A	11/22/02	11/22/02
11	2SSD4B46	A1627-55A	11/22/02	11/22/02
12	2SSTB4302	A1627-56A	11/23/02	11/23/02
13	2SSTB4402	A1627-57A	11/23/02	11/23/02
14	2SSTB4524	A1627-58A	11/23/02	11/23/02
15	2SSTB4602	A1627-59A	11/23/02	11/23/02
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM IV PCB

000246

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
BBLK3H

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: MB-4344
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8153F
% Moisture: _____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract: ___
Lab Code: MITKEM Case No.: ____ SAS No.: _____ SDG No.: A1627___
Preparation Blank Matrix (soil/water): WATER
Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	12.0	U	12.0	U	17.5	B	13.6	B	12.000	U	P
Antimony	4.7	B	3.4	B	4.1	B	3.4	B	3.000	U	P
Arsenic	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Barium	3.0	U	3.0	U	3.0	U	3.0	U	3.720	B	P
Beryllium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Cadmium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Calcium	76.0	U	76.0	U	76.0	U	76.0	U	76.000	U	P
Chromium	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Cobalt	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Copper	4.3	B	2.0	U	2.0	U	2.0	U	2.000	U	P
Iron	35.0	U	35.0	U	35.0	U	35.0	U	35.000	U	P
Lead	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Magnesium	23.0	U	23.0	U	23.0	U	23.0	U	23.000	U	P
Manganese	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.100	U	CV
Nickel	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Potassium	159.7	B	89.0	U	89.0	U	89.0	U	171.480	B	P
Selenium	8.0	U	8.0	U	8.0	U	8.0	U	8.000	U	P
Silver	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Sodium	579.2	B	118.0	U	118.0	U	118.0	U	394.339	B	P
Thallium	4.0	U	4.0	U	4.0	U	4.0	U	4.000	U	P
Vanadium	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Zinc	8.0	U	8.0	U	8.0	U	8.0	U	8.000	U	P
Cyanide											

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract: ___
Lab Code: MITKEM Case No.: ____ SAS No.: _____ SDG No.: A1627___
Preparation Blank Matrix (soil/water): WATER
Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			12.0	U	12.0	U			12.000	U	P
Antimony			3.0	U	3.3	B			3.000	U	P
Arsenic			3.0	U	3.0	U			3.000	U	P
Barium			3.0	U	3.0	U			6.445	B	P
Beryllium			2.0	U	2.0	U			2.000	U	P
Cadmium			2.0	U	2.0	U			2.000	U	P
Calcium			76.0	U	76.0	U			76.000	U	P
Chromium			3.0	U	3.0	U			3.000	U	P
Cobalt			3.0	U	3.0	U			3.000	U	P
Copper			2.0	U	2.0	U			2.000	U	P
Iron			35.0	U	35.0	U			35.000	U	P
Lead			1.0	U	1.0	U			1.000	U	P
Magnesium			23.0	U	23.0	U			23.000	U	P
Manganese			2.0	U	2.0	U			2.000	U	P
Mercury			0.1	U	0.1	U					CV
Nickel			1.0	U	1.0	U			1.000	U	P
Potassium									89.000	U	P
Selenium			8.0	U	8.0	U			8.000	U	P
Silver			2.0	U	2.0	U			2.000	U	P
Sodium									158.354	B	P
Thallium			4.0	U	4.0	U			4.000	U	P
Vanadium			3.0	U	3.0	U			3.000	U	P
Zinc			8.0	U	8.0	U			8.000	U	P
Cyanide											

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract: ___
Lab Code: MITKEM Case No.: ____ SAS No.: _____ SDG No.: A1627___
Preparation Blank Matrix (soil/water): WATER
Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead											
Magnesium											
Manganese											
Mercury											
Nickel									1.000	U	P
Potassium											
Selenium											
Silver											
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

Lab Name: MITKEM_CORPORATION_____ Contract: ____

Lab Code: MITKEM Case No.: ____ SAS No.: _____ SDG No.: A1627___

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum									0.600	U	P
Antimony									0.150	U	P
Arsenic									0.150	U	P
Barium									0.328	B	P
Beryllium									0.100	U	P
Cadmium									0.100	U	P
Calcium									3.800	U	P
Chromium									0.150	U	P
Cobalt									0.150	U	P
Copper									0.100	U	P
Iron									1.750	U	P
Lead									0.050	U	P
Magnesium									1.150	U	P
Manganese									0.129	B	P
Mercury									0.017	U	CV
Nickel									0.050	U	P
Potassium									4.450	U	P
Selenium									0.400	U	P
Silver									0.100	U	P
Sodium									5.900	U	P
Thallium									0.200	U	P
Vanadium									0.150	U	P
Zinc									0.400	U	P
Cyanide											

Lab Name: MITKEM_CORPORATION_____ Contract: ____

Lab Code: MITKEM Case No.: ____ SAS No.: _____ SDG No.: A1627___

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead											
Magnesium											
Manganese											
Mercury	0.1	U	0.1	U	0.1	U			0.017	U	CV
Nickel									1.000	U	P
Potassium											
Selenium											
Silver											
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): V1F1081 Date Analyzed: 11/18/02

Instrument ID: V1 Time Analyzed: 1118

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1 AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	1601631	6.06	1086054	9.75	544217	12.69
	UPPER LIMIT	3203262	6.56	2172108	10.25	1088434	13.19
	LOWER LIMIT	800816	5.56	543027	9.25	272109	12.19
	EPA SAMPLE NO.						
01	VBLK1O	1455825	6.06	967788	9.75	421700	12.69
02	V1OLCS	1572715	6.06	1063647	9.75	544227	12.69
03	13SSTB3435DL	1551496	6.03	1035355	9.73	464685	12.67
04	13SSTB2413DL	1435219	6.03	969022	9.72	429978	12.67
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): V5E1623 Date Analyzed: 11/15/02

Instrument ID: V5 Time Analyzed: 2005

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

		IS1 AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	614021	6.27	438979	9.48	223491	12.22
	UPPER LIMIT	1228042	6.77	877958	9.98	446982	12.72
	LOWER LIMIT	307011	5.77	219490	8.98	111746	11.72
	EPA SAMPLE NO.						
01	VBLK5C	761940	6.27	540958	9.49	232103	12.22
02	V5CLCS	644706	6.28	458026	9.49	231767	12.22
03	V5CLCSD	619016	6.27	452123	9.48	229612	12.22
04	12TB1524	670444	6.28	473233	9.49	201287	12.22
05	13SSTB3435	466942	6.28	319525	9.48	140674	12.22
06	13SSTB2413	309284	6.28	208126*	9.49	90079*	12.22
07	13SSTB3124	427016	6.28	300417	9.49	133858	12.22
08	12TB1068	426242	6.27	279235	9.48	108964*	12.23
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): V6C3691 Date Analyzed: 11/14/02

Instrument ID: V6 Time Analyzed: 1122

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	1530309	7.04	1225663	10.77	675366	13.59
UPPER LIMIT	3060618	7.54	2451326	11.27	1350732	14.09
LOWER LIMIT	765155	6.54	612832	10.27	337683	13.09
EPA SAMPLE NO.						
01 VBLK6U	1527065	7.03	1185436	10.77	615508	13.59
02 V6ULCS	1551390	7.03	1246707	10.77	680931	13.59
03 V6ULCSD	1561623	7.03	1253368	10.77	685905	13.59
04 AOC112T1	1530398	7.03	1176673	10.77	603472	13.59
05 AOC112E1	1493093	7.03	1150578	10.77	596452	13.59
06 AOC2E3	1453388	7.03	1123970	10.77	577142	13.59
07 AOC13E2	1444875	7.03	1131592	10.77	576424	13.59
08 AOC2E4	1629775	7.03	1238477	10.77	626688	13.59
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): S3C0257 Date Analyzed: 11/13/02

Instrument ID: S3 Time Analyzed: 1147

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	421177	8.10	1455230	10.54	784472	14.09
UPPER LIMIT	842354	8.60	2910460	11.04	1568944	14.59
LOWER LIMIT	210589	7.60	727615	10.04	392236	13.59
EPA SAMPLE NO.						
01 SBLK3X	419202	8.09	1458546	10.54	791640	14.09
02 S3XLCS	405360	8.10	1406228	10.53	760651	14.09
03 S3XLCSD	389250	8.09	1361763	10.54	734819	14.09
04 AOC112E1	381024	8.09	1344892	10.53	721932	14.09
05 AOC2E3	396969	8.09	1389909	10.53	745495	14.09
06 AOC13E2	394701	8.09	1374337	10.53	735271	14.09
07 AOC2E4	384180	8.09	1346313	10.53	726459	14.09
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): S3C0257 Date Analyzed: 11/13/02

Instrument ID: S3 Time Analyzed: 1147

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	1289774	17.14	1381080	22.58	989755	25.46
UPPER LIMIT	2579548	17.64	2762160	23.08	1979510	25.96
LOWER LIMIT	644887	16.64	690540	22.08	494878	24.96
EPA SAMPLE NO.						
01 SBLK3X	1261113	17.14	1290686	22.57	939563	25.45
02 S3XLCS	1224019	17.14	1306938	22.58	924701	25.45
03 S3XLCSD	1180843	17.14	1252560	22.57	887131	25.45
04 AOC112E1	1159182	17.13	1173714	22.56	849308	25.44
05 AOC2E3	1185821	17.13	1203182	22.57	879655	25.45
06 AOC13E2	1175720	17.13	1189875	22.57	860759	25.45
07 AOC2E4	1160336	17.13	1166605	22.57	847802	25.44
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): S3C0325 Date Analyzed: 11/18/02

Instrument ID: S3 Time Analyzed: 1110

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	436641	7.66	1527999	10.09	858045	13.62
UPPER LIMIT	873282	8.16	3055998	10.59	1716090	14.12
LOWER LIMIT	218321	7.16	764000	9.59	429023	13.12
EPA SAMPLE NO.						
01 12TB1524	387184	7.67	1361095	10.09	754985	13.62
02 12TB1068	386161	7.67	1344554	10.09	757890	13.62
03 13SSTB3435	399264	7.67	1410147	10.08	794669	13.62
04 13SSTB2413	404651	7.66	1398922	10.08	777080	13.62
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): S3C0325 Date Analyzed: 11/18/02

Instrument ID: S3 Time Analyzed: 1110

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	1345145		16.65		1471832		22.05		1024471		24.80	
	UPPER LIMIT	2690290		17.15		2943664		22.55		2048942		25.30	
	LOWER LIMIT	672573		16.15		735916		21.55		512236		24.30	
	EPA SAMPLE NO.												
01	12TB1524	1175455		16.65		1210637		22.06		904804		24.81	
02	12TB1068	1182361		16.65		1230181		22.06		909466		24.81	
03	13SSTB3435	1235347		16.65		1272463		22.05		950730		24.81	
04	13SSTB2413	1212693		16.65		1234389		22.05		926861		24.81	
05													
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): S3C0345 Date Analyzed: 11/19/02

Instrument ID: S3 Time Analyzed: 1047

		IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(ANT) AREA	#	RT	#
	12 HOUR STD	564667		7.56		1942026		9.98		1064523		13.51	
	UPPER LIMIT	1129334		8.06		3884052		10.48		2129046		14.01	
	LOWER LIMIT	282334		7.06		971013		9.48		532262		13.01	
	EPA SAMPLE NO.												
01	AOC2BB1	553257		7.56		1929486		9.97		1061924		13.50	
02	AOC2BB2	512048		7.56		1773661		9.97		978571		13.50	
03	13SSTB3124	410467		7.56		1436834		9.97		787574		13.50	
04													
05													
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): S3C0345 Date Analyzed: 11/19/02

Instrument ID: S3 Time Analyzed: 1047

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	1685192		16.52		1838945		21.93		1217203		24.65	
	UPPER LIMIT	3370384		17.02		3677890		22.43		2434406		25.15	
	LOWER LIMIT	842596		16.02		919473		21.43		608602		24.15	
	EPA SAMPLE NO.												
01	AOC2BB1	1664446		16.52		1703735		21.92		1235006		24.65	
02	AOC2BB2	1531445		16.52		1558685		21.92		1137205		24.64	
03	13SSTB3124	1226390		16.52		1260746		21.91		931540		24.64	
04													
05													
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): S3C0345 Date Analyzed: 11/19/02

Instrument ID: S3 Time Analyzed: 1047

		IS1(DCB) AREA	#	RT	#	IS2(NPT) AREA	#	RT	#	IS3(ANT) AREA	#	RT	#
	12 HOUR STD	564667		7.56		1942026		9.98		1064523		13.51	
	UPPER LIMIT	1129334		8.06		3884052		10.48		2129046		14.01	
	LOWER LIMIT	282334		7.06		971013		9.48		532262		13.01	
	EPA SAMPLE NO.												
01	SBLK3M	651424		7.56		2245746		9.98		1239962		13.51	
02	S3MLCS	636491		7.56		2209984		9.98		1221711		13.50	
03	S3MLCSD	678777		7.56		2332951		9.98		1304017		13.51	
04	AOC2BB1	553257		7.56		1929486		9.97		1061924		13.50	
05	AOC2BB2	512048		7.56		1773661		9.97		978571		13.50	
06	13SSTB3124	410467		7.56		1436834		9.97		787574		13.50	
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): S3C0345 Date Analyzed: 11/19/02

Instrument ID: S3 Time Analyzed: 1047

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	1685192	16.52	1838945	21.93	1217203	24.65
UPPER LIMIT	3370384	17.02	3677890	22.43	2434406	25.15
LOWER LIMIT	842596	16.02	919473	21.43	608602	24.15
EPA SAMPLE NO.						
01 SBLK3M	1956904	16.52	2010113	21.92	1466818	24.65
02 S3MLCS	1925509	16.53	2095561	21.93	1414329	24.65
03 S3MLCSD	2064627	16.53	2241672	21.93	1520016	24.65
04 AOC2BB1	1664446	16.52	1703735	21.92	1235006	24.65
05 AOC2BB2	1531445	16.52	1558685	21.92	1137205	24.64
06 13SSTB3124	1226390	16.52	1260746	21.91	931540	24.64
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): S3C0375 Date Analyzed: 11/21/02

Instrument ID: S3 Time Analyzed: 1119

	IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
12 HOUR STD	748699	7.01	2612461	9.41	1547751	12.91
UPPER LIMIT	1497398	7.51	5224922	9.91	3095502	13.41
LOWER LIMIT	374350	6.51	1306231	8.91	773876	12.41
EPA SAMPLE NO.						
01 SBLK3P	754207	7.02	2629249	9.41	1511202	12.91
02 S3PLCS	823558	7.02	2852647	9.41	1634583	12.91
03 S3PLCSD	793235	7.02	2807349	9.41	1642165	12.91
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

9C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): S3C0375 Date Analyzed: 11/21/02

Instrument ID: S3 Time Analyzed: 1119

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	2511273	15.91	2805381	21.28	1898689	23.95
UPPER LIMIT	5022546	16.41	5610762	21.78	3797378	24.45
LOWER LIMIT	1255637	15.41	1402691	20.78	949345	23.45
EPA SAMPLE NO.						
01 SBLK3P	2369160	15.91	2410982	21.26	1737186	23.94
02 S3PLCS	2510905	15.91	2697487	21.28	1780908	23.94
03 S3PLCSD	2581749	15.91	2797548	21.28	1878702	23.95
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

9B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): S3C0441 Date Analyzed: 11/25/02

Instrument ID: S3 Time Analyzed: 1040

	IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
12 HOUR STD	370563	6.75	1313881	9.13	728343	12.61
UPPER LIMIT	741126	7.25	2627762	9.63	1456686	13.11
LOWER LIMIT	185282	6.25	656941	8.63	364172	12.11
EPA SAMPLE NO.						
01 SBLK3Z	418624	6.75	1515760	9.12	851730	12.61
02 S3ZLCS	443134	6.75	1584628	9.13	895107	12.61
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): S3C0441 Date Analyzed: 11/25/02

Instrument ID: S3 Time Analyzed: 1040

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1191756	15.60	1176295	20.95	926030	23.61
	UPPER LIMIT	2383512	16.10	2352590	21.45	1852060	24.11
	LOWER LIMIT	595878	15.10	588148	20.45	463015	23.11
	EPA SAMPLE NO.						
01	SBLK3Z	1367459	15.59	1394941	20.94	1077675	23.61
02	S3ZLCS	1463777	15.60	1437243	20.95	1085772	23.61
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

MITKEM CORPORATION

"Environmental Testing For The New Millennium"

December 18, 2002

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Attn: Ms. Melody Bova

RE: Client Project: Former Howe Furniture Site, HOW0016.RA, 11/02
Mitkem Lab Project # A1627

Dear Ms. Bova:

Enclosed please find the data report of the required analyses for the samples associated with the above referenced project.

This deliverable includes a hard copy of the data summary portion of the report, and a CD containing a .pdf file of the full data package. The hard copy of the full data package report has been forwarded to Mr. Glenn Esler of Environmental Standards, Inc.

If you have any questions regarding this report, please call me.

We appreciate your business.

Sincerely,

Edward A. Lawler
Laboratory Operations Manager

CC: Glenn Esler, Environmental Standards, Inc.

175 Metro Center Boulevard • Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499 • www.mitkem.com

Analytical Data Package for HRP Associates, Inc.

Client Project: Former Howe Furniture Site

Mitkem Project ID: A1627

December 18, 2002

SDG Narrative

Mitkem Corporation submits the enclosed data package in response to HRP Associates' Former Howe Furniture Site project. Under this deliverable, analysis results are presented for fifty-nine soil samples that were received at Mitkem on November 8, 2002. Analyses were performed per specifications in the project's contract and the chain of custody forms following discussion with the client. Ferrous iron analysis was requested on several soil samples. Per discussion with the client, this analysis is not performed on soil matrix samples. Sample identifications were shortened where necessary due to limitations in the software used to generate CLP-type report forms. A table of sample identifications showing full client ID, shortened client ID and laboratory ID follows this narrative.

The analyses were performed according to EPA SW-846 and State of Connecticut protocols and reported in a CLP-format deliverable. Results for extractable total petroleum hydrocarbons are reported in standard Mitkem format with supporting raw data. Per method requirements, QC limits are updated on a regular basis. Therefore, QC limits may have changed from those provided when the project QAPP was written. The current valid QC limits are listed on the applicable data reporting forms.

Samples AOC2BB1 and AOC2BB2 were empty soil sample jars provided as bottle blanks. These were rinsed repeatedly with water to provide sufficient volume for aqueous sample analyses. These rinsings were performed when required for sample preparation.

The following observation and/or deviations are observed for the following analyses:

1. Overall Observation:

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting.
- M2 peak co-elution.
- M3 rising or falling baseline.
- M4 retention time shift.
- M5 miscellaneous – under this category, the justification is explained.

The enclosed report includes the originals of all data with the exception of logbook pages and certain initial calibrations. Photocopies of logbook pages are included, with the originals maintained on file at the laboratory. The originals of initial calibrations that are

shared among several cases are maintained on file at the laboratory, with photocopies included in the data package.

2. Volatile Analysis:

Surrogate recovery: recoveries were within the QC limits.

Lab control sample/lab control sample duplicate: spike recoveries were within the QC limits.

Sample analysis: samples 13SSTB3435 and 13SSTB2413 were reanalyzed at dilution due to concentrations exceeding the calibration range of the instrument. The medium-level methanol preserved sample aliquots were used for these two dilutions. The peak area for two internal standards were outside of the QC limits in the initial analysis of sample 13SSTB2413, but within the QC limits in the dilution analysis. The peak area for one internal standard in sample 10TB1068 was outside of the QC limits. Please note that the recoveries of all internal standards were within the QC limits for this analysis. No other unusual observation was made for the analyses.

3. Semivolatile Analysis:

Surrogate recovery: recoveries were within the QC limits.

Lab control sample/lab control sample duplicate: spike recoveries were within the QC limits.

Sample analysis: no unusual observation was made for the analyses. Alkanes were determined as tentatively identified compounds in sample 13SSTB3435. These are reported on the Alkane Narrative Report which follows this narrative. Please note that bottle blanks AOC2BB1 and AOC2BB2 were prepared (rinsed with water) the day they were extracted; holding times for these two samples are not calculated from date of sample collection or receipt.

4. PCB Analysis (Total):

Results for PCBs on total (mass) samples are reported following the first green report section divider. Results for SPLP PCB analyses are reported in a separate section of the report.

Surrogate recovery: recoveries were within the QC limits with the exception of one surrogate on one GC column for sample 2SSTB4246, which was above the upper QC limit.

Lab control sample/lab control sample duplicate: spike recoveries were within the QC limits. The spike amount for B3JLCS and its duplicate LCS were lower than normal as this batch included samples from another Mitkem program requiring lower spike concentrations.

Sample analysis: no unusual observation was made for the analyses. Please note that bottle blanks AOC2BB1 and AOC2BB2 were prepared (rinsed with water) the day they were extracted; holding times for these two samples are not calculated from date of sample collection or receipt.

5. PCB Analysis (SPLP):

Results for SPLP PCBs are reported following the second green report section divider. Results for total PCBs (on a mass basis) are reported in a separate section of the report.

Surrogate recovery: recoveries were within the QC limits with the exception of low recoveries for one surrogate on one GC column for samples 13SSTB2124 and 2SSTB4802.

Lab control sample/lab control sample duplicate: spike recoveries were within the QC limits.

Sample analysis: no unusual observation was made for the analyses.

6. Metals Analysis:

Results for all metals analyses are reported in one section of this report. Data sheets for SPLP metals are identified as such in the Comments line at the bottom of the Form 1.

Lab control sample: spike recoveries were within the QC limits.

Sample analysis: no unusual observation was noted for the analysis.

7. Connecticut Extractable Total Petroleum Hydrocarbons (ETPH):

ALKANE NARRATIVE REPORT
Report date : 11/23/2002
SDG: A1627

Client Sample ID: 13SSTB3435 Lab Sample ID: A1627-29C File ID: S3C0340

Compound	RT	Est. Conc.	Q
Branched Alkane	21.96	140	J
Straight-chained Alkane	24.46	170	J
Straight-chained Alkane	25.92	1000	J

*Mitkem and Client Sample ID Summary Report**

Mitkem Workorder: A1627

Client Name: HRP Associates

Mitkem Sample ID	*Reported Client Sample ID*	*Full Client Sample ID*
A1627-01A	12TB846	04 NOV 02 AOC1+12-TB-8(4-6)
A1627-02A	12TB1524	04 NOV 02 AOC1+12-TB-15(2-4)
A1627-02B	12TB1524	04 NOV 02 AOC1+12-TB-15(2-4)
A1627-02C	12TB1524	04 NOV 02 AOC1+12-TB-15(2-4)
A1627-02D	12TB1524	04 NOV 02 AOC1+12-TB-15(2-4)
A1627-03A	12TB1068	04 NOV 02 AOC1+12TB-10(6-8)
A1627-03B	12TB1068	04 NOV 02 AOC1+12TB-10(6-8)
A1627-03C	12TB1068	04 NOV 02 AOC1+12TB-10(6-8)
A1627-03D	12TB1068	04 NOV 02 AOC1+12TB-10(6-8)
A1627-04A	12SSD1A46	04 NOV 02 AOC1+12-SS-D1A(4-6)
A1627-05A	12SSD1B46	04 NOV 02 AOC1+12-SS-D1B(4-6)
A1627-06A	AOC112T1	04 NOV 02 AOC1+12T-1
A1627-07A	AOC112E1	04 NOV 02 AOC1+12E-1
A1627-07B	AOC112E1	04 NOV 02 AOC1+12E-1
A1627-07C	AOC112E1	04 NOV 02 AOC1+12E-1
A1627-07D	AOC112E1	04 NOV 02 AOC1+12E-1
A1627-08A	12SSTB1824	04 NOV 02 AOC1+12-SS-TB-18(2-4)
A1627-09A	12SSTB1802	04 NOV 02 AOC1+12-SS-TB-18(0-2)
A1627-10A	12SSTB1702	04 NOV 02 AOC1+12-SS-TB-17(0-2)
A1627-11A	12SSTB1602	04 NOV 02 AOC1+12-SS-TB-14(2-4)
A1627-12A	12SSTB1424	04 NOV 02 AOC1+12-SS-TB-14(2-4)
A1627-13A	AOC2E3	06 NOV 02-AOC2-E3
A1627-13B	AOC2E3	06 NOV 02-AOC2-E3
A1627-13C	AOC2E3	06 NOV 02-AOC2-E3
A1627-13D	AOC2E3	06 NOV 02-AOC2-E3
A1627-14A	13SSTB23245	05 NOV 02-AOC13-SS-TB-23(2-4.5)
A1627-15A	13SSTB2513	05 NOV 02-AOC13-SS-TB-25(1-3)
A1627-16A	13SSTB2635	05 NOV 02-AOC13-SS-TB-26(3-5)
A1627-17A	13SSTB2702	05 NOV 02-AOC13-SS-TB-27(0-2)
A1627-18A	13SSTB2813	05 NOV 02-AOC13-SS-TB-28(1-3)
A1627-19A	13SSTB2902	05 NOV 02-AOC13-SS-TB-29(0-2)
A1627-20A	13SSTB3013	05 NOV 02-AOC13-SS-TB-30(1-3)
A1627-21A	13SSTB3213	05 NOV 02-AOC13-SS-TB-32(1-3)
A1627-22A	13SSTB3335	05 NOV 02-AOC13-SS-TB-33(3-5)
A1627-23A	13SSTB3524	05 NOV 02-AOC13-SS-TB-35(2-4)
A1627-24A	13SSTB3602	05 NOV 02-AOC13-SS-TB-36(0-2)
A1627-25A	AOC13E2	05 NOV 02 AOC13E-2
A1627-25B	AOC13E2	05 NOV 02 AOC13E-2
A1627-25C	AOC13E2	05 NOV 02 AOC13E-2
A1627-25D	AOC13E2	05 NOV 02 AOC13E-2

**** If client sample ID has not been truncated, the full client sample ID is listed in the column labeled "Reported Client Sample ID"***

Mitkem Sample ID	Reported Client Sample ID	Full Client Sample ID
A1627-26A	13SSD2A35	05 NOV 02AOC13-SS-D2A(3-5)
A1627-27A	13SSD2B35	05 NOV 02 AOC13-SS-D2B(3-5)
A1627-28A	13SSTB2435	05 NOV 02 AOC13-SS-TB24(3-5)
A1627-29A	13SSTB3435	05 NOV 02 AOC13-SS-TB-34(3-5)
A1627-29B	13SSTB3435	05 NOV 02 AOC13-SS-TB-34(3-5)
A1627-29C	13SSTB3435	05 NOV 02 AOC13-SS-TB-34(3-5)
A1627-29D	13SSTB3435	05 NOV 02 AOC13-SS-TB-34(3-5)
A1627-30A	13SSTB2413	05 NOV 02 AOC13-SS-TB-24(1-3)
A1627-30B	13SSTB2413	05 NOV 02 AOC13-SS-TB-24(1-3)
A1627-30C	13SSTB2413	05 NOV 02 AOC13-SS-TB-24(1-3)
A1627-30D	13SSTB2413	05 NOV 02 AOC13-SS-TB-24(1-3)
A1627-31A	13SSTB3124	05 NOV 02 AOC13-SS-TB-31(2-4)
A1627-31B	13SSTB3124	05 NOV 02 AOC13-SS-TB-31(2-4)
A1627-31C	13SSTB3124	05 NOV 02 AOC13-SS-TB-31(2-4)
A1627-31D	13SSTB3124	05 NOV 02 AOC13-SS-TB-31(2-4)
A1627-32A	13SSTB1902	04 NOV 02 AOC13-SS-TB-19(0-2)
A1627-33A	13SSTB20235	04 NOV 02 AOC13-SS-TB-20(2-3.5)
A1627-34A	13SSTB2123	04 NOV 02 AOC13-SS-TB-21(2-3)
A1627-35A	13SSTB2202	05 NOV 02 AOC13-SS-TB-22(0-2)
A1627-36A	AOC2BB1	06 NOV02-AOC2-BB-1
A1627-36B	AOC2BB1	06 NOV02-AOC2-BB-1
A1627-36C	AOC2BB1	06 NOV02-AOC2-BB-1
A1627-37A	AOC2BB2	07 NOV02-AOC2-BB-2
A1627-37B	AOC2BB2	07 NOV02-AOC2-BB-2
A1627-37C	AOC2BB2	07 NOV02-AOC2-BB-2
A1627-38A	2SSTB3746	06 NOV02-AOC2-SS-TB-37(4-6)
A1627-39A	2SSTB3824	06 NOV02-AOC2-SS-TB-38(2-4)
A1627-40A	2SSTB3902	06 NOV02-AOC2-SS-TB-39(0-2)
A1627-41A	2SSTB40465	06 NOV02-AOC2-SS-TB-40(4-6.5)
A1627-42A	2SSTB4724	07 NOV02-AOC2-SS-TB-47(2-4)
A1627-43A	2SSTB4802	07 NOV02-AOC2-SS-TB-48(0-2)
A1627-44A	12SSTB1302	04 NOV02-AOC1+12-SS-TB-13(0-2)
A1627-45A	12SSTB1224	04 NOV02-AOC1+12-SS-TB-12(2-4)
A1627-46A	12SSTB1102	04 NOV02-AOC1+12-SS-TB-11(0-2)
A1627-47A	12SSTB902	04 NOV02-AOC1+12-SS-TB-9(0-2)
A1627-49A	2SSTB41465	07 NOV02-AOC2-SS-TB41(4-6.5)
A1627-50A	2SSTB4246	07 NOV02-AOC2-SS-TB42(4-6)
A1627-51A	AOC2E4	07 NOV02-AOC2-E4
A1627-51B	AOC2E4	07 NOV02-AOC2-E4
A1627-51C	AOC2E4	07 NOV02-AOC2-E4
A1627-51D	AOC2E4	07 NOV02-AOC2-E4
A1627-52A	2SSD3A465	07 NOV02-AOC2-SS-D3A(4-6.5)
A1627-53A	2SSD3B465	07 NOV02-AOC2-SS-D3B(4-6.5)
A1627-54A	2SSD4A46	07 NOV02-AOC2-SS-D4A(4-6)

** If client sample ID has not been truncated, the full client sample ID is listed in the column labeled "Reported Client Sample ID"*

00 7

Mitkem Sample ID	Reported Client Sample ID	Full Client Sample ID
A1627-55A	2SSD4B46	07 NOV02-AOC2-SS-D4B(4-6)
A1627-56A	2SSTB4302	07 NOV02-AOC2-SS-TB-43(0-2)
A1627-57A	2SSTB4402	07 NOV02-AOC2-SS-TB-44(0-2)
A1627-58A	2SSTB4524	07 NOV02-AOC2-SS-TB-45(2-4)
A1627-59A	2SSTB4602	07 NOV02-AOC2-SS-TB-46(0-2)

** If client sample ID has not been truncated, the full client sample ID is listed in the column labeled "Reported Client Sample ID"*

00 8

Sample Transmittal Documentation

00 9

Mitkem Corporation **WorkOrder: A1627** *02/Dec/02 13:38*

Client ID: IRP Case:
Project: Former Howe Furniture Facility HOW-0016.RA.T02 SDG: Report Level: LEVEL 4
Location: HOW0016.RA PO: EDD: XL
Comments: N/A HC Due: 11/29/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Hold	MS	SEL	Storage
A1627-01A	12TB846	11/04/02 8:45	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-02A	12TB1524	11/04/02 10:50	11/08/02	Soil	SW8260B_MED_S		☑	☐	☐	VOA
A1627-02B	12TB1524	11/04/02 10:50	11/08/02	Soil	SW8260B_LOW_S		☐	☐	☐	VOA
A1627-02C	12TB1524	11/04/02 10:50	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
					SW6010B_S	TAL	☐	☑	☑	H4
					SW7471A	TAL	☐	☐	☐	H4
					SW8082_S		☐	☐	☐	H4
					SW8082_W	SPLP	☐	☐	☐	H4
					SW8270C_S		☐	☐	☐	H4
A1627-02D	12TB1524	11/04/02 10:50	11/08/02	Soil	ASTMD2974		☐	☐	☐	SLB
A1627-03A	12TB1068	11/04/02 9:35	11/08/02	Soil	SW8260B_MED_S		☑	☐	☐	VOA

Client Rep: Agnes R Ng

10

Mitkem Corporation — 02/Dec/02 13:38 — WorkOrder: A1627

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T02
Location: HOW0016.RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 11/29/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Hold	MS	SEL	Storage
A1627-11A	12SSTB1602	11/04/02 11:00	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-12A	12SSTB1424	11/04/02 10:35	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-13A	AOC2E3	11/06/02 11:15	11/08/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1627-13B	AOC2E3	11/06/02 11:15	11/08/02	Aqueous	SW6010B_W	TAL	☐	☐	☑	M5
					SW7470A	TAL	☐	☐	☐	M5
A1627-13C	AOC2E3	11/06/02 11:15	11/08/02	Aqueous	CTETPH_W		☐	☐	☐	H4
A1627-13D	AOC2E3	11/06/02 11:15	11/08/02	Aqueous	SW8082_W		☐	☐	☐	H4
					SW8270C_W		☐	☐	☐	H4
A1627-14A	13SSTB23245	11/05/02 9:35	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4

Client Rep: Agnes R Ng

Mitkem Corporation — 02/Dec/02 13:38 — WorkOrder: A1627

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T02
Location: HOW0016.RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 11/29/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Hold	MS	SEL	Storage
A1627-03B	12TB1068	11/04/02 9:35	11/08/02	Soil	SW8260B_LOW_S		☐	☐	☐	VOA
A1627-03C	12TB1068	11/04/02 9:35	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
					SW6010B_S	TAL	☐	☐	☑	H4
					SW7471A	TAL	☐	☐	☐	H4
					SW8270C_S		☐	☐	☐	H4
A1627-03D	12TB1068	11/04/02 9:35	11/08/02	Soil	ASTMD2974		☐	☐	☐	SUB
A1627-04A	12SSD1A46	11/04/02 8:45	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-05A	12SSD1B46	11/04/02 8:50	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-06A	AOC112T1	11/04/02 14:30	11/08/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1627-07A	AOC112E1	11/04/02 14:15	11/08/02	Aqueous	SW8260B_W		☐	☐	☐	VOA

Client Rep: Agnes R Ng

Mitkem Corporation — 02/Dec/02 13:38 — WorkOrder: A1627

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T02
Location: HOW0016.RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 11/29/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Hold	MS	SEL	Storage
A1627-15A	13SSTB2513	11/05/02 10:15	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-16A	13SSTB2635	11/05/02 10:40	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-17A	13SSTB2702	11/05/02 10:55	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-18A	13SSTB2813	11/05/02 11:15	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-19A	13SSTB2902	11/05/02 11:35	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-20A	13SSTB3013	11/05/02 11:55	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-21A	13SSTB3213	11/05/02 12:20	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4

Client Rep: Agnes R Ng

Mitkem Corporation — 02/Dec/02 13:38 — WorkOrder: A1627

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T02
Location: HOW0016.RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 11/29/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Hold	MS	SEL	Storage
A1627-07B	AOC112E1	11/04/02 14:15	11/08/02	Aqueous	SW6010B_W	TAL	☐	☐	☑	M5
					SW7470A	TAL	☐	☐	☐	M5
A1627-07C	AOC112E1	11/04/02 14:15	11/08/02	Aqueous	CTETPH_W		☐	☐	☐	H4
A1627-07D	AOC112E1	11/04/02 14:15	11/08/02	Aqueous	SW8082_W		☐	☐	☐	H4
					SW8270C_W		☐	☐	☐	H4
A1627-08A	12SSTB1824	11/04/02 11:45	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-09A	12SSTB1802	11/04/02 11:35	11/08/02	Soil	PMoist		☐	☐	☐	H4
					SW7470A	SPLP	☐	☐	☐	H4
					SW7471A		☐	☐	☐	H4
A1627-10A	12SSTB1702	11/04/02 11:15	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4

Client Rep: Agnes R Ng

Client ID: HRP **Case:** **Report Level:** LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T02 **SDG:** **EDD:** XL
Location: HOW0016.RA **PO:** **HC Due:** 11/29/02
Comments: N/A **Fax Due:**

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Hold	MS	SEL	Storage
A1627-29C	13SSTB3435	11/05/02 13:20	11/08/02	Soil	SW8082_S		☐	☐	☐	H4
					SW8082_W	SPLP	☐	☐	☐	H4
					SW8270C_S		☐	☐	☐	H4
A1627-29D	13SSTB3435	11/05/02 13:20	11/08/02	Soil	ASTMD2974		☐	☐	☐	SUB
A1627-30A	13SSTB2413	11/05/02 9:50	11/08/02	Soil	SW8260B_MED_S		☑	☐	☐	VOA
A1627-30B	13SSTB2413	11/05/02 9:50	11/08/02	Soil	SW8260B_LOW_S		☐	☐	☐	VOA
A1627-30C	13SSTB2413	11/05/02 9:50	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
					SW6010B_S	TAL	☐	☐	☑	H4
					SW7471A	TAL	☐	☐	☐	H4
					SW8082_S		☐	☐	☐	H4
					SW8082_W	SPLP	☐	☐	☐	H4
					SW8270C_S		☐	☐	☐	H4
A1627-30D	13SSTB2413	11/05/02 9:50	11/08/02	Soil	ASTMD2974		☐	☐	☐	SUB

Client ID: HRP **Case:** **Report Level:** LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T02 **SDG:** **EDD:** XL
Location: HOW0016.RA **PO:** **HC Due:** 11/29/02
Comments: N/A **Fax Due:**

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Hold	MS	SEL	Storage
A1627-21A	13SSTB3213	11/05/02 12:20	11/08/02	Soil	PMoist		☐	☐	☐	H4
A1627-22A	13SSTB3335	11/05/02 13:05	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-23A	13SSTB3524	11/05/02 13:40	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-24A	13SSTB3602	11/05/02 13:45	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-25A	AOC13E2	11/05/02 14:00	11/08/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1627-25B	AOC13E2	11/05/02 14:00	11/08/02	Aqueous	SW6010B_W	TAL	☐	☐	☑	M5
					SW7470A	TAL	☐	☐	☐	M5
A1627-25C	AOC13E2	11/05/02 14:00	11/08/02	Aqueous	CTETPH_W		☐	☐	☐	H4
A1627-25D	AOC13E2	11/05/02 14:00	11/08/02	Aqueous	SW8082_W		☐	☐	☐	H4

Client ID: HRP **Case:** **Report Level:** LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T02 **SDG:** **EDD:** XL
Location: HOW0016.RA **PO:** **HC Due:** 11/29/02
Comments: N/A **Fax Due:**

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Hold	MS	SEL	Storage
A1627-31A	13SSTB3124	11/05/02 12:10	11/08/02	Soil	SW8260B_MED_S		☑	☐	☐	VOA
A1627-31B	13SSTB3124	11/05/02 12:10	11/08/02	Soil	SW8260B_LOW_S		☐	☐	☐	VOA
A1627-31C	13SSTB3124	11/05/02 12:10	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
					SW6010B_S	TAL	☐	☐	☑	H4
					SW7471A	TAL	☐	☐	☐	H4
					SW8082_S		☐	☐	☐	H4
					SW8082_W	SPLP	☐	☐	☐	H4
					SW8270C_S		☐	☐	☐	H4
A1627-31D	13SSTB3124	11/05/02 12:10	11/08/02	Soil	ASTMD2974		☐	☐	☐	SUB
A1627-32A	13SSTB1902	11/04/02 12:45	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-33A	13SSTB20235	11/04/02 13:30	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4

Client ID: HRP **Case:** **Report Level:** LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T02 **SDG:** **EDD:** XL
Location: HOW0016.RA **PO:** **HC Due:** 11/29/02
Comments: N/A **Fax Due:**

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Hold	MS	SEL	Storage
A1627-25D	AOC13E2	11/05/02 14:00	11/08/02	Aqueous	SW8270C_W		☐	☐	☐	H4
A1627-26A	13SSD2A35	11/05/02 10:00	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-27A	13SSD2B35	11/05/02 10:05	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-28A	13SSTB2435	11/05/02 9:55	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-29A	13SSTB3435	11/05/02 13:20	11/08/02	Soil	SW8260B_MED_S		☑	☐	☐	VOA
A1627-29B	13SSTB3435	11/05/02 13:20	11/08/02	Soil	SW8260B_LOW_S		☐	☐	☐	VOA
A1627-29C	13SSTB3435	11/05/02 13:20	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
					SW6010B_S	TAL	☐	☐	☑	H4
					SW7471A	TAL	☐	☐	☐	H4

Client ID: HRP **Case:** **Report Level:** LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T02 **SDG:** **EDD:** XL
Location: HOW0016.RA **PO:** **HC Due:** 11/29/02
Comments: N/A **Fax Due:**

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Hold	MS	SEL	Storage
A1627-42A	2SSTB4724	11/07/02 10:20	11/08/02	Soil	SW8082_S		☐	☐	☐	H4
					SW8082_W	SPLP	☐	☐	☐	H4
A1627-43A	2SSTB4802	11/07/02 10:40	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
					SW8082_S		☐	☐	☐	H4
					SW8082_W	SPLP	☐	☐	☐	H4
A1627-44A	12SSTB1302	11/04/02 10:15	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-45A	12SSTB1224	11/04/02 10:05	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-46A	12SSTB1102	11/04/02 9:45	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
					SW6010B_S	TAL	☐	☐	☑	H4
					SW7471A	TAL	☐	☐	☐	H4

Client ID: HRP **Case:** **Report Level:** LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T02 **SDG:** **EDD:** XL
Location: HOW0016.RA **PO:** **HC Due:** 11/29/02
Comments: N/A **Fax Due:**

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Hold	MS	SEL	Storage
A1627-33A	13SSTB20235	11/04/02 13:30	11/08/02	Soil	PMoist		☐	☐	☐	H4
A1627-34A	13SSTB2123	11/04/02 13:55	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-35A	13SSTB2202	11/05/02 9:00	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-36A	AOC2BB1	11/06/02 12:00	11/08/02	Aqueous	SW6010B_W	TAL	☐	☐	☑	M1
					SW7470A	TAL	☐	☐	☐	M1
A1627-36B	AOC2BB1	11/06/02 12:00	11/08/02	Aqueous	CTETPH_W		☐	☐	☐	E4
A1627-36C	AOC2BB1	11/06/02 12:00	11/08/02	Aqueous	SW8082_W		☐	☐	☐	E4
					SW8270C_W		☐	☐	☐	E4
A1627-37A	AOC2BB2	11/07/02 11:15	11/08/02	Aqueous	SW6010B_W	TAL	☐	☐	☑	M1
					SW7470A	TAL	☐	☐	☐	M1

Client ID: HRP **Case:** **Report Level:** LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T02 **SDG:** **EDD:** XL
Location: HOW0016.RA **PO:** **HC Due:** 11/29/02
Comments: N/A **Fax Due:**

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Hold	MS	SEL	Storage
A1627-47A	12SSTB902	11/04/02 8:55	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
					SW6010B_S	SPLP Ni Only	☐	☐	☑	H4
					SW6010B_W	SPLP Ni Only	☐	☐	☑	H4
A1627-49A	2SSTB41465	11/07/02 7:40	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-50A	2SSTB4246	11/07/02 8:10	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
					SW8082_S		☐	☐	☐	H4
					SW8082_W	SPLP	☐	☐	☐	H4
A1627-51A	AOC2E4	11/07/02 7:10	11/08/02	Aqueous	SW8260B_W		☐	☐	☐	VOA
A1627-51B	AOC2E4	11/07/02 7:10	11/08/02	Aqueous	SW6010B_W	TAL	☐	☐	☑	M5
					SW7470A	TAL	☐	☐	☐	M5
A1627-51C	AOC2E4	11/07/02 7:10	11/08/02	Aqueous	CTETPH_W		☐	☐	☐	H4

Client ID: HRP **Case:** **Report Level:** LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T02 **SDG:** **EDD:** XL
Location: HOW0016.RA **PO:** **HC Due:** 11/29/02
Comments: N/A **Fax Due:**

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Hold	MS	SEL	Storage
A1627-37B	AOC2BB2	11/07/02 11:15	11/08/02	Aqueous	CTETPH_W		☐	☐	☐	E4
A1627-37C	AOC2BB2	11/07/02 11:15	11/08/02	Aqueous	SW8082_W		☐	☐	☐	E4
					SW8270C_W		☐	☐	☐	E4
A1627-38A	2SSTB3746	11/06/02 10:00	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-39A	2SSTB3824	11/06/02 10:20	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-40A	2SSTB3902	11/06/02 10:40	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-41A	2SSTB40465	11/06/02 11:10	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-42A	2SSTB4724	11/07/02 10:20	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4

MITKEM CORPORATION
175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

Page 1 of 5

REPORT TO		INVOICE TO	
COMPANY: HRP Associates	PHONE: (860) 793-6899	COMPANY: Same	PHONE:
NAME: Melody Bova	FAX: (860) 793-6871	NAME:	FAX:
ADDRESS: 167 New Britain Ave		ADDRESS:	
CITY/ST/ZIP: Plainville, CT 06062		CITY/ST/ZIP:	

LAB PROJECT #: A1627
TURNAROUND TIME:

CLIENT PROJECT NAME: Howe Furniture
CLIENT PROJECT #: HOW0016.RA
CLIENT P.O.#:

REQUESTED ANALYSES: VOCs 8260B TAL/TCL; CT ETPH; SVOCs 8270C TAL/TCL; TAL/TCL Metals; PCBs 8082; SPLP PCBs 1312; TOC; 1224; Total Hg; SPLP Hg

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	COMMENTS
04NOV02-A0C1+12-TB-8(4-6)	11/4/02		X		X		01	3	Sample Time 8:45
04NOV02-A0C1+12-TB-5(2-4)	11/4/02		X		X		02	6	10:50
04NOV02-A0C1+12-TB-10(6-8)	11/4/02		X		X		03	6	9:35
04NOV02-A0C1+12-SS-B1A(4-6)	11/4/02		X		X		04	1	8:45
04NOV02-A0C1+12-SS-B1B(4-6)	11/4/02		X		X		05	1	8:50
04NOV02-A0C1+12-T-1	11/4/02			X			06	2	2:30
04NOV02-A0C1+12-E-1	11/4/02			X			07	7	2:15
04NOV02-A0C1+12-SS-TB-18(2-4)	11/4/02		X		X		08	1	11:45
04NOV02-A0C1+12-SS-TB-19(0-2)	11/4/02		X		X		09	1	11:35
04NOV02-A0C1+12-SS-TB-17(0-2)	11/4/02		X		X		10	1	11:15
04NOV02-A0C1+12-SS-TB-16(0-2)	11/4/02		X		X		11	1	11:00
04NOV02-A0C1+12-SS-TB-14(2-4)	11/4/02		X		X		12	1	10:35

TSR#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS:	COOLER TEMP:
02	Dave Hedeen	11/8/02 11:30	J. Davis	11-8-02 3:50	QL's must meet CT DEP RSRs + approved alt criteria	4°
03		/		/		

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

Mitkem Corporation *02/Dec/02 13:38* **WorkOrder: A1627**

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T02
Location: HOW0016.RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 11/29/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Hold	MS	SEL	Storage
A1627-51D	AOC2E4	11/07/02 7:10	11/08/02	Aqueous	SW8082_W		☐	☐	☐	H4
					SW8270C_W		☐	☐	☐	H4
A1627-52A	2SSD3A465	11/07/02 7:43	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-53A	2SSD3B465	11/07/02 7:45	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
A1627-54A	2SSD4A46	11/07/02 8:12	11/08/02	Soil	PMoist		☐	☐	☐	H4
					SW8082_S		☐	☐	☐	H4
					SW8082_W	SPLP	☐	☐	☐	H4
A1627-55A	2SSD4B46	11/07/02 8:15	11/08/02	Soil	PMoist		☐	☐	☐	H4
					SW8082_S		☐	☐	☐	H4
					SW8082_W	SPLP	☐	☐	☐	H4
A1627-56A	2SSTB4302	11/07/02 8:30	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4

Client Rep: Agnes R Ng

MITKEM CORPORATION
175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

Page 2 of 5

REPORT TO		INVOICE TO	
COMPANY: HRP Associates	PHONE: (860) 793-6899	COMPANY: Same	PHONE:
NAME: Melody Bova	FAX: (860) 793-6871	NAME:	FAX:
ADDRESS: 167 New Britain Ave		ADDRESS:	
CITY/ST/ZIP: Plainville, CT 06062		CITY/ST/ZIP:	

LAB PROJECT #: A1627
TURNAROUND TIME:

CLIENT PROJECT NAME: Howe Furniture
CLIENT PROJECT #: HOW0016.RA
CLIENT P.O.#:

REQUESTED ANALYSES: CT ETPH; VOCs 8260B TAL/TCL; SVOCs 8270C TAL/TCL; TAL/TCL Metals; PCBs 8082; SPLP PCBs; TOC; 1224

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	COMMENTS
04NOV02-AOC2-E3	11/6/02 11:15		X		X		13	7	Date/Time
05NOV02-A0C13-SS-TB-23(2-4.5)		X			X		14	1	11/5/02 9:35
05NOV02-A0C13-SS-TB-25(1-3)		X			X		15	1	10:15
05NOV02-A0C13-SS-TB-26(3-5)		X			X		16	1	10:40
05NOV02-A0C13-SS-TB-27(0-2)		X			X		17	1	10:55
05NOV02-A0C13-SS-TB-28(1-3)		X			X		18	1	11:15
05NOV02-A0C13-SS-TB-29(0-2)		X			X		19	1	11:35
05NOV02-A0C13-SS-TB-30(1-3)		X			X		20	1	11:55
05NOV02-A0C13-SS-TB-32(1-3)		X			X		21	1	12:20
05NOV02-A0C13-SS-TB-33(3-5)		X			X		22	1	1:05
05NOV02-A0C13-SS-TB-35(2-4)		X			X		23	1	1:40
05NOV02-A0C13-SS-TB-36(0-2)		X			X		24	1	1:45

TSR#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS:	COOLER TEMP:
02	Dave Hedeen	11/8/02 11:30	J. Davis	11-8-02 3:50	QL's must meet CT DEP RSR's and alt approved criterion	4°
03		/		/		

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

Mitkem Corporation *02/Dec/02 13:38* **WorkOrder: A1627**

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T02
Location: HOW0016.RA
Comments: N/A

Case:
SDG:
PO:

Report Level: LEVEL 4
EDD: XL
HC Due: 11/29/02
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Hold	MS	SEL	Storage
A1627-56A	2SSTB4302	11/07/02 8:30	11/08/02	Soil	PMoist		☐	☐	☐	H4
					SW8082_S		☐	☐	☐	H4
					SW8082_W	SPLP	☐	☐	☐	H4
A1627-57A	2SSTB4402	11/07/02 8:50	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
					SW8082_S		☐	☐	☐	H4
					SW8082_W	SPLP	☐	☐	☐	H4
A1627-58A	2SSTB4524	11/07/02 9:20	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
					SW8082_S		☐	☐	☐	H4
					SW8082_W	SPLP	☐	☐	☐	H4
A1627-59A	2SSTB4602	11/07/02 9:45	11/08/02	Soil	CTETPH_S		☐	☐	☐	H4
					PMoist		☐	☐	☐	H4
					SW8082_S		☐	☐	☐	H4
					SW8082_W	SPLP	☐	☐	☐	H4

Client Rep: Agnes R Ng

MITKEM CORPORATION
175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

Page 5 of 5

REPORT TO: Company HRP Associates; Name Melody Bova; Address 167 New Britain Ave; City/ST/ZIP Plainville, CT 06062; Phone (860) 793-6899; Fax (860) 793-6871
INVOICE TO: Company Same; Name; Address; City/ST/ZIP; Phone; Fax
LAB PROJECT #: A1627
TURNAROUND TIME:
CLIENT PROJECT NAME: Howe Furniture
CLIENT PROJECT #: HOW0016.RA
CLIENT P.O.#:
REQUESTED ANALYSES: CT ETPH; PCB's 8082; VOC's 8260B TAL/TCL; SVOC's 8270C TAL/TCL; SPLP PCB's; SVOC's 8270C TAL/TCL Metals; TOC; Fe 2+

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	COMMENTS: Date / Time
~~07NOV02-AOC2-SS-TB-42 (0-2)~~	~~11/7/02 7:30~~		X		X		48	X	
07NOV02-AOC2-SS-TB41(4-6.5)	11/7/02 7:40		X		X		49	5	X
07NOV02-AOC2-SS-TB42(4-6)	7:50		X		X		50	5	X X
07NOV02-AOC2-E4	7:10			X			51	7	X X X X X
07NOV02-AOC2-SS-D3A(4-6.5)	7:93		X		X		52	1	X
07NOV02-AOC2-SS-D3B(4-6.5)	7:45		X		X		53	1	X
07NOV02-AOC2-SS-D4A(4-6)	8:12		X		X		54	1	X
07NOV02-AOC2-SS-D4B(4-6)	8:15		X		X		55	1	X
07NOV02-AOC2-SS-TB-43 (0-2)	8:30		X		X		56	2	X X
07NOV02-AOC2-SS-TB-44(0-2)	8:50		X		X		57	3	X X
07NOV02-AOC2-SS-TB-45 (2-4)	9:20		X		X		58	4	X X
07NOV02-AOC2-SS-TB-46 (0-2)	9:45		X		X		59	3	X X

RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS	COOLER TEMP
TSP#: 10 Dawn Heidenis	11/8/02 11:30	J. Davis	11-8-02 3:50	QL's must meet CT DEP RSRs + approved alt. criteria	4c
TSP#: 13	/		/		

* NO SAMPLE # 48 IN OMEGA 47/49

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

MITKEM CORPORATION
175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

Page 3 of 5

REPORT TO: Company HRP Associates; Name Melody Bova; Address 167 New Britain Ave; City/ST/ZIP Plainville, CT 06062; Phone (860) 793-6899; Fax (860) 793-6871
INVOICE TO: Company Same; Name; Address; City/ST/ZIP; Phone; Fax
LAB PROJECT #: A1627
TURNAROUND TIME:
CLIENT PROJECT NAME: Howe Furniture
CLIENT PROJECT #: HOW0016.RA
CLIENT P.O.#:
REQUESTED ANALYSES: CT ETPH; VOC's 8260B TAL/TCL; SVOC's 8270C TAL/TCL; TAL/TCL Metals; PCB's 8082; TOC; Fe 2+; SPLP PCB's

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	COMMENTS: Date / Time
05NOV02-AOC13-E-2	11/5/02 2:00			X			25	7	X X X X X
05NOV02-AOC13-SS-D2A (3-5)		X			X		26	1	X
05NOV02-AOC13-SS-D2B (3-5)		X			X		27	1	X
05NOV02-AOC13-SS-TB-24 (3-5)		X			X		28	3	X
05NOV02-AOC13-SS-TB-34(3-5)		X			X		29	6	X X
05NOV02-AOC13-SS-TB-24(1-3)		X			X		30	6	X X
~~05NOV02-AOC13-SS-TB-24(0-2)~~		X			X			6	X X
05NOV02-AOC13-SS-TB-31(2-4)		X			X		31	6	X X X X X X
05NOV02-AOC13-SS-TB-19 (0-2)		X			X		32	1	X
05NOV02-AOC13-SS-TB-20(2-3.5)		X			X		33	1	X
05NOV02-AOC13-SS-TB-21(2-3)		X			X		34	1	X
05NOV02-AOC13-SS-TB-29(0-2)		X			X		35	1	X

RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS	COOLER TEMP
TSP#: 10 Dawn Heidenis	11/8/02 11:30	J. Davis	11-8-02 3:50	QL's must meet CT DEP RSRs + approved alt. criteria	4c
TSP#: 13	/		/		

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

MITKEM CORPORATION
Sample Condition Form
Page ___ of ___

Received By: Reviewed By: Date: 11-8-02 MITKEM Project: A1627
Client Project: Howe Furn. Client: HRP

Lab Sample ID	Matrix	VOA	HNO3	H2SO4	HCl	NaO	Preservation (pH)	Custody Seal Numbers	Intact / Broken	Coolant Condition	Cooler Temperature	Airbill Number(s)	Present / Absent
A1627-1	W												
A1627-2	W												
A1627-3	W												
A1627-4	W												
A1627-5	W												
A1627-6	W												
A1627-7	W												
A1627-8	W												
A1627-9	W												
A1627-10	W												
A1627-11	W												
A1627-12	W												
A1627-13	W												
A1627-14	W												
A1627-15	W												
A1627-16	W												
A1627-17	W												
A1627-18	W												
A1627-19	W												
A1627-20	W												
A1627-21	W												
A1627-22	W												
A1627-23	W												
A1627-24	W												
A1627-25	W												
A1627-26	W												
A1627-27	W												
A1627-28	W												
A1627-29	W												
A1627-30	W												
A1627-31	W												
A1627-32	W												
A1627-33	W												
A1627-34	W												
A1627-35	W												
A1627-36	W												
A1627-37	W												
A1627-38	W												
A1627-39	W												
A1627-40	W												
A1627-41	W												
A1627-42	W												
A1627-43	W												
A1627-44	W												
A1627-45	W												
A1627-46	W												
A1627-47	W												

1)Condition: 1)Custody Seal(s) Present / Absent; Coolers Intact / Broken; Bottles Intact/Broken/Leaking
2)Sample Bottles
3)Chain -of- Custody Present / Absent
4)Airbill(s) Present / Absent
5)Cooler Temperature
Coolant Condition
6)Sample Bottles Intact/Broken/Leaking
7)Date Received
8)Time Received

VOA Matrix Key: US = Unpreserved Soil; UA = Unpreserved Aqueous; M/N = MeOH& NaHSO4; N = NaHSO4; A = Air; H = HCl; E=Encore; M = MeOH

See Sample Condition Notification / Corrective Action Form
Comments / Remarks
Rad Ok yes / no
yes / no

MITKEM CORPORATION
175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

Page 4 of 5

REPORT TO: Company HRP Associates; Name Melody Bova; Address 167 New Britain Ave; City/ST/ZIP Plainville, CT 06062; Phone (860) 793-6899; Fax (860) 793-6871
INVOICE TO: Company Same; Name; Address; City/ST/ZIP; Phone; Fax
LAB PROJECT #: A1627
TURNAROUND TIME:
CLIENT PROJECT NAME: Howe Furniture
CLIENT PROJECT #: HOW0016.RA
CLIENT P.O.#:
REQUESTED ANALYSES: CT ETPH; Methyl TAL/TCL; SVOC's 8270C TAL/TCL; PCB 8082; SPLP PCB's; Total Ni, SPLP Ni

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	COMMENTS: Date / Time
06NOV02-AOC2-BB-1	11/6/02 12:00					X	* 36	1	X X X X X
06NOV02-AOC1-BB-2	11/7/02 10:15					X	* 37	1	X X X X
06NOV02-AOC2-SS-TB-37(4-6)		X		X			38	1	X
06NOV02-AOC2-SS-TB-38(2-4)		X		X			39	1	X
06NOV02-AOC2-SS-TB-39(0-2)		X		X			40	1	X
06NOV02-AOC2-SS-TB-40(4-6.5)		X		X			41	1	X
07NOV02-AOC2-SS-TB-47(2-4)		X		X			42	3	X X
07NOV02-AOC2-SS-TB-48(0-2)		X		X			43	2	X X
04NOV02-AOC1+12-SS-TB-13(0-2)		X		X			44	1	X
04NOV02-AOC1+12-SS-TB-12(2-4)		X		X			45	1	X
04NOV02-AOC1+12-SS-TB-11(0-2)		X		X			46	2	X X
04NOV02-AOC1+12-SS-TB-9 (0-2)		X		X			47	2	X X

RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS	COOLER TEMP
TSP#: 10 Dawn Heidenis	11/6/02 11:30	J. Davis	11-8-02 3:50	QL's must meet CT DEP RSRs + approved additional criteria	4c
TSP#: 13	/		/	* Received was No Sample in Jars (12) 11-8-02	

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

Time	Comment
11/6/02	Bottle Blank HRP
	Bottle Blank HRP
	10:00
	10:20
	10:40
	11:10
11/7/02	10:20
	10:40
11/4/02	10:15
	10:05
	9:45
	8:55

MITKEM CORPORATION

* Volatiles *

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

	EPA SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	VBLK6U	92	89	108	94	0
02	V6ULCS	88	87	97	91	0
03	V6ULCSD	99	98	109	101	0
04	AOC112T1	93	87	110	95	0
05	AOC112E1	94	90	108	95	0
06	AOC2E3	92	91	109	94	0
07	AOC13E2	94	91	107	92	0
08	AOC2E4	93	90	109	92	0
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
SMC1	= Dibromofluoromethane	(78-117)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(62-124)
SMC3 (TOL)	= Toluene-d8	(81-116)
OTHER(BFB)	= Bromofluorobenzene	(74-126)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	VBLK5C	98	98	98	91	0
02	V5CLCS	107	109	104	102	0
03	V5CLCSD	105	103	101	101	0
04	12TB1524	99	101	102	96	0
05	13SSTB3435	103	101	108	95	0
06	13SSTB2413	103	100	109	97	0
07	13SSTB3124	110	107	109	100	0
08	12TB1068	103	104	107	93	0
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
SMC1	= Dibromofluoromethane	(52-130)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(50-126)
SMC3 (TOL)	= Toluene-d8	(25-156)
OTHER(BFB)	= Bromofluorobenzene	(49-146)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Level: (low/med) MED

	EPA SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	VBLK1O	100	94	98	96	0
02	V1OLCS	93	91	90	96	0
03	13SSTB3435DL	98	95	99	97	0
04	13SSTB2413DL	99	96	96	96	0
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
SMC1	= Dibromofluoromethane	(52-130)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(50-126)
SMC3 (TOL)	= Toluene-d8	(25-156)
OTHER(BFB)	= Bromofluorobenzene	(49-146)

Column to be used to flag recovery values

* Values outside of contract required QC limits

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V1OLCS Level: (low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	2500		2400	96	58-131
Chloromethane	2500		2300	92	63-120
Vinyl Chloride	2500		2200	88	61-134
Bromomethane	2500		1700	68	10-215
Chloroethane	2500		3000	120	55-146
Trichlorofluoromethane	2500		2600	104	63-126
1,1-Dichloroethene	2500		2200	88	67-127
Acetone	2500		1800	72	0-154
Methylene Chloride	2500		2100	84	62-128
trans-1,2-Dichloroethen	2500		2100	84	76-120
Methyl tert-butyl ether	2500		2200	88	52-130
1,1-Dichloroethane	2500		2100	84	74-118
2-Butanone	2500		2100	84	14-154
cis-1,2-Dichloroethene	2500		2200	88	83-115
2,2-Dichloropropane	2500		2300	92	64-125
Bromochloromethane	2500		2200	88	70-119
Chloroform	2500		2200	88	77-120
1,1,1-Trichloroethane	2500		2300	92	72-126
1,1-Dichloropropene	2500		2300	92	71-132
Carbon Tetrachloride	2500		2300	92	69-135
1,2-Dichloroethane	2500		2300	92	65-126
Benzene	2500		2100	84	78-121
Trichloroethene	2500		2400	96	75-125
1,2-Dichloropropane	2500		2200	88	78-117
Dibromomethane	2500		2300	92	65-125
Bromodichloromethane	2500		2300	92	75-118
cis-1,3-Dichloropropene	2500		2300	92	78-120
4-Methyl-2-pentanone	2500		2300	92	45-141

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V1OLCS Level: (low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Toluene	2500		2200	88	80-126
trans-1,3-Dichloroprope	2500		2300	92	73-123
1,1,2-Trichloroethane	2500		2300	92	66-125
1,3-Dichloropropane	2500		2200	88	76-119
Tetrachloroethene	2500		2300	92	65-134
2-Hexanone	2500		2200	88	37-136
Dibromochloromethane	2500		2300	92	76-115
1,2-Dibromoethane	2500		2200	88	72-117
Chlorobenzene	2500		2200	88	78-117
1,1,1,2-Tetrachloroetha	2500		2300	92	80-115
Ethylbenzene	2500		2200	88	79-129
Xylene (Total)	7500		6700	89	83-125
Styrene	2500		2400	96	83-122
Bromoform	2500		2400	96	67-126
Isopropylbenzene	2500		2300	92	80-135
1,1,2,2-Tetrachloroetha	2500		2100	84	70-117
Bromobenzene	2500		2200	88	79-119
1,2,3-Trichloropropane	2500		2200	88	0-154
n-Propylbenzene	2500		2200	88	64-141
2-Chlorotoluene	2500		2200	88	70-132
1,3,5-Trimethylbenzene	2500		2200	88	72-133
4-Chlorotoluene	2500		2200	88	77-122
tert-Butylbenzene	2500		2200	88	31-159
1,2,4-Trimethylbenzene	2500		2200	88	73-126
sec-Butylbenzene	2500		2200	88	68-137
4-Isopropyltoluene	2500		2200	88	66-131
1,3-Dichlorobenzene	2500		2200	88	75-115
1,4-Dichlorobenzene	2500		2200	88	72-110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V1OLCS Level: (low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
n-Butylbenzene	2500		2200	88	66-130
1,2-Dichlorobenzene	2500		2200	88	78-113
1,2-Dibromo-3-chloropro	2500		2200	88	52-128
1,2,4-Trichlorobenzene	2500		2300	92	49-126
Hexachlorobutadiene	2500		2200	88	58-115
Naphthalene	2500		2200	88	45-130
1,2,3-Trichlorobenzene	2500		2300	92	44-131

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 63 outside limits

COMMENTS:

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V5CLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	50		52	104	58-131
Chloromethane	50		55	110	63-120
Vinyl Chloride	50		54	108	61-134
Bromomethane	50		56	112	10-215
Chloroethane	50		57	114	55-146
Trichlorofluoromethane	50		54	108	63-126
1,1-Dichloroethene	50		52	104	67-127
Acetone	50		48	96	0-154
Methylene Chloride	50		52	104	62-128
trans-1,2-Dichloroethen	50		51	102	76-120
Methyl tert-butyl ether	50		52	104	52-130
1,1-Dichloroethane	50		51	102	74-118
2-Butanone	50		52	104	14-154
cis-1,2-Dichloroethene	50		50	100	83-115
2,2-Dichloropropane	50		51	102	64-125
Bromochloromethane	50		51	102	70-119
Chloroform	50		50	100	77-120
Tetrahydrofuran	50		54	108	70-130
1,1,1-Trichloroethane	50		51	102	72-126
1,1-Dichloropropene	50		50	100	71-132
Carbon Tetrachloride	50		50	100	69-135
1,2-Dichloroethane	50		51	102	65-126
Benzene	50		50	100	78-121
Trichloroethene	50		49	98	75-125
1,2-Dichloropropane	50		50	100	78-117
Dibromomethane	50		50	100	65-125
Bromodichloromethane	50		50	100	75-118
cis-1,3-Dichloropropene	50		49	98	78-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V5CLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
4-Methyl-2-pentanone	50		51	102	45-141
Toluene	50		49	98	80-126
trans-1,3-Dichloroprope	50		48	96	73-123
1,1,2-Trichloroethane	50		48	96	66-125
1,3-Dichloropropane	50		50	100	76-119
Tetrachloroethene	50		50	100	65-134
2-Hexanone	50		52	104	37-136
Dibromochloromethane	50		49	98	76-115
1,2-Dibromoethane	50		49	98	72-117
Chlorobenzene	50		48	96	78-117
1,1,1,2-Tetrachloroetha	50		48	96	80-115
Ethylbenzene	50		48	96	79-129
Xylene (Total)	150		140	93	83-125
Styrene	50		48	96	83-122
Bromoform	50		49	98	67-126
Isopropylbenzene	50		48	96	80-135
1,1,2,2-Tetrachloroetha	50		46	92	70-117
Bromobenzene	50		46	92	79-119
1,2,3-Trichloropropane	50		48	96	0-154
n-Propylbenzene	50		46	92	64-141
2-Chlorotoluene	50		46	92	70-132
1,3,5-Trimethylbenzene	50		47	94	72-133
4-Chlorotoluene	50		47	94	77-122
tert-Butylbenzene	50		48	96	31-159
1,2,4-Trimethylbenzene	50		48	96	73-126
sec-Butylbenzene	50		48	96	68-137
4-Isopropyltoluene	50		49	98	66-131
1,3-Dichlorobenzene	50		47	94	75-115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V5CLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
1,4-Dichlorobenzene	50		47	94	72-110
n-Butylbenzene	50		49	98	66-130
1,2-Dichlorobenzene	50		47	94	78-113
1,2-Dibromo-3-chloropro	50		45	90	52-128
1,2,4-Trichlorobenzene	50		45	90	49-126
Hexachlorobutadiene	50		47	94	58-115
Naphthalene	50		43	86	45-130
1,2,3-Trichlorobenzene	50		44	88	44-131
1-Chlorohexane	50		49	98	70-130
Acrylonitrile	250		270	108	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V5CLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	50	51	102	2	40	58-131
Chloromethane	50	55	110	0	40	63-120
Vinyl Chloride	50	54	108	0	40	61-134
Bromomethane	50	56	112	0	40	10-215
Chloroethane	50	56	112	2	40	55-146
Trichlorofluoromethane	50	54	108	0	40	63-126
1,1-Dichloroethene	50	52	104	0	40	67-127
Acetone	50	49	98	2	40	0-154
Methylene Chloride	50	53	106	2	40	62-128
trans-1,2-Dichloroethen	50	51	102	0	40	76-120
Methyl tert-butyl ether	50	52	104	0	40	52-130
1,1-Dichloroethane	50	53	106	4	40	74-118
2-Butanone	50	52	104	0	40	14-154
cis-1,2-Dichloroethene	50	51	102	2	40	83-115
2,2-Dichloropropane	50	51	102	0	40	64-125
Bromochloromethane	50	51	102	0	40	70-119
Chloroform	50	52	104	4	40	77-120
Tetrahydrofuran	50	48	96	12	40	70-130
1,1,1-Trichloroethane	50	51	102	0	40	72-126
1,1-Dichloropropene	50	50	100	0	40	71-132
Carbon Tetrachloride	50	50	100	0	40	69-135
1,2-Dichloroethane	50	52	104	2	40	65-126
Benzene	50	50	100	0	40	78-121
Trichloroethene	50	50	100	2	40	75-125
1,2-Dichloropropane	50	52	104	4	40	78-117
Dibromomethane	50	51	102	2	40	65-125
Bromodichloromethane	50	51	102	2	40	75-118
cis-1,3-Dichloropropene	50	49	98	0	40	78-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V5CLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
4-Methyl-2-pentanone	50	51	102	0	40	45-141
Toluene	50	50	100	2	40	80-126
trans-1,3-Dichloroprope	50	50	100	4	40	73-123
1,1,2-Trichloroethane	50	49	98	2	40	66-125
1,3-Dichloropropane	50	50	100	0	40	76-119
Tetrachloroethene	50	50	100	0	40	65-134
2-Hexanone	50	51	102	2	40	37-136
Dibromochloromethane	50	49	98	0	40	76-115
1,2-Dibromoethane	50	49	98	0	40	72-117
Chlorobenzene	50	49	98	2	40	78-117
1,1,1,2-Tetrachloroetha	50	48	96	0	40	80-115
Ethylbenzene	50	48	96	0	40	79-129
Xylene (Total)	150	140	93	0	40	83-125
Styrene	50	49	98	2	40	83-122
Bromoform	50	48	96	2	40	67-126
Isopropylbenzene	50	47	94	2	40	80-135
1,1,2,2-Tetrachloroetha	50	46	92	0	40	70-117
Bromobenzene	50	47	94	2	40	79-119
1,2,3-Trichloropropane	50	47	94	2	40	0-154
n-Propylbenzene	50	46	92	0	40	64-141
2-Chlorotoluene	50	46	92	0	40	70-132
1,3,5-Trimethylbenzene	50	48	96	2	40	72-133
4-Chlorotoluene	50	47	94	0	40	77-122
tert-Butylbenzene	50	48	96	0	40	31-159
1,2,4-Trimethylbenzene	50	48	96	0	40	73-126
sec-Butylbenzene	50	47	94	2	40	68-137
4-Isopropyltoluene	50	48	96	2	40	66-131
1,3-Dichlorobenzene	50	48	96	2	40	75-115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V5CLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,4-Dichlorobenzene	50	48	96	2	40	72-110
n-Butylbenzene	50	49	98	0	40	66-130
1,2-Dichlorobenzene	50	48	96	2	40	78-113
1,2-Dibromo-3-chloropro	50	48	96	6	40	52-128
1,2,4-Trichlorobenzene	50	48	96	6	40	49-126
Hexachlorobutadiene	50	48	96	2	40	58-115
Naphthalene	50	46	92	7	40	45-130
1,2,3-Trichlorobenzene	50	48	96	9	40	44-131
1-Chlorohexane	50	48	96	2	40	70-130
Acrylonitrile	250	260	104	4	40	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 66 outside limits
Spike Recovery: 0 out of 132 outside limits

COMMENTS:

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V6ULCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	50		58	116	48-135
Chloromethane	50		54	108	60-118
Vinyl Chloride	50		52	104	65-113
Bromomethane	50		43	86	73-122
Chloroethane	50		43	86	72-118
Trichlorofluoromethane	50		52	104	68-129
1,1-Dichloroethene	50		44	88	67-121
Acetone	50		38	76	38-161
Methylene Chloride	50		44	88	59-132
Acrylonitrile	250		220	88	45-172
trans-1,2-Dichloroethen	50		46	92	71-124
Methyl tert-butyl ether	50		43	86	75-123
1,1-Dichloroethane	50		47	94	83-116
2-Butanone	50		40	80	64-139
cis-1,2-Dichloroethene	50		47	94	83-120
2,2-Dichloropropane	50		44	88	70-129
Bromochloromethane	50		45	90	85-124
Chloroform	50		47	94	89-118
Tetrahydrofuran	50		56	112	76-126
1,1,1-Trichloroethane	50		46	92	81-122
1,1-Dichloropropene	50		47	94	76-122
Carbon Tetrachloride	50		48	96	79-125
1,2-Dichloroethane	50		47	94	83-123
Benzene	50		49	98	81-120
Trichloroethene	50		46	92	77-121
1,2-Dichloropropane	50		48	96	81-116
Dibromomethane	50		46	92	86-124
Bromodichloromethane	50		47	94	90-114

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V6ULCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
cis-1,3-Dichloropropene	50		46	92	78-119
4-Methyl-2-pentanone	50		40	80	57-138
Toluene	50		50	100	81-121
trans-1,3-Dichloroprope	50		45	90	85-118
1,1,2-Trichloroethane	50		47	94	44-159
1,3-Dichloropropane	50		49	98	79-125
Tetrachloroethene	50		46	92	73-121
2-Hexanone	50		43	86	53-145
Dibromochloromethane	50		48	96	80-124
1,2-Dibromoethane	50		47	94	80-124
Chlorobenzene	50		50	100	82-118
1,1,1,2-Tetrachloroetha	50		49	98	84-121
Ethylbenzene	50		49	98	80-122
Xylene (Total)	150		150	100	81-121
Styrene	50		51	102	77-128
Bromoform	50		48	96	77-130
Isopropylbenzene	50		53	106	58-148
1,1,2,2-Tetrachloroetha	50		51	102	76-125
Bromobenzene	50		48	96	76-124
1,2,3-Trichloropropane	50		50	100	57-140
n-Propylbenzene	50		50	100	72-119
2-Chlorotoluene	50		50	100	75-120
1,3,5-Trimethylbenzene	50		53	106	76-116
4-Chlorotoluene	50		50	100	78-116
tert-Butylbenzene	50		53	106	71-115
1,2,4-Trimethylbenzene	50		53	106	77-117
sec-Butylbenzene	50		56	112	67-117
4-Isopropyltoluene	50		54	108	68-118

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V6ULCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,3-Dichlorobenzene	50		50	100	80-116
1,4-Dichlorobenzene	50		50	100	80-114
n-Butylbenzene	50		56	112	58-121
1,2-Dichlorobenzene	50		50	100	81-116
1,2-Dibromo-3-chloropro	50		46	92	71-126
1,2,4-Trichlorobenzene	50		47	94	67-114
Hexachlorobutadiene	50		46	92	50-111
Naphthalene	50		45	90	58-133
1,2,3-Trichlorobenzene	50		47	94	64-118
1-Chlorohexane	50		47	94	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V6ULCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	50	57	114	2	40	48-135
Chloromethane	50	57	114	5	40	60-118
Vinyl Chloride	50	55	110	6	40	65-113
Bromomethane	50	49	98	13	40	73-122
Chloroethane	50	42	84	2	40	72-118
Trichlorofluoromethane	50	55	110	6	40	68-129
1,1-Dichloroethene	50	46	92	4	40	67-121
Acetone	50	36	72	5	40	38-161
Methylene Chloride	50	46	92	4	40	59-132
Acrylonitrile	250	240	96	9	40	45-172
trans-1,2-Dichloroethen	50	48	96	4	40	71-124
Methyl tert-butyl ether	50	45	90	4	40	75-123
1,1-Dichloroethane	50	48	96	2	40	83-116
2-Butanone	50	43	86	7	40	64-139
cis-1,2-Dichloroethene	50	48	96	2	40	83-120
2,2-Dichloropropane	50	48	96	9	40	70-129
Bromochloromethane	50	47	94	4	40	85-124
Chloroform	50	49	98	4	40	89-118
Tetrahydrofuran	50	57	114	2	40	76-126
1,1,1-Trichloroethane	50	48	96	4	40	81-122
1,1-Dichloropropene	50	48	96	2	40	76-122
Carbon Tetrachloride	50	49	98	2	40	79-125
1,2-Dichloroethane	50	48	96	2	40	83-123
Benzene	50	51	102	4	40	81-120
Trichloroethene	50	47	94	2	40	77-121
1,2-Dichloropropane	50	49	98	2	40	81-116
Dibromomethane	50	48	96	4	40	86-124
Bromodichloromethane	50	48	96	2	40	90-114

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V6ULCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
cis-1,3-Dichloropropene	50	47	94	2	40	78-119
4-Methyl-2-pentanone	50	43	86	7	40	57-138
Toluene	50	52	104	4	40	81-121
trans-1,3-Dichloroprope	50	48	96	6	40	85-118
1,1,2-Trichloroethane	50	48	96	2	40	44-159
1,3-Dichloropropane	50	51	102	4	40	79-125
Tetrachloroethene	50	48	96	4	40	73-121
2-Hexanone	50	46	92	7	40	53-145
Dibromochloromethane	50	50	100	4	40	80-124
1,2-Dibromoethane	50	50	100	6	40	80-124
Chlorobenzene	50	51	102	2	40	82-118
1,1,1,2-Tetrachloroetha	50	50	100	2	40	84-121
Ethylbenzene	50	50	100	2	40	80-122
Xylene (Total)	150	150	100	0	40	81-121
Styrene	50	52	104	2	40	77-128
Bromoform	50	49	98	2	40	77-130
Isopropylbenzene	50	54	108	2	40	58-148
1,1,2,2-Tetrachloroetha	50	53	106	4	40	76-125
Bromobenzene	50	50	100	4	40	76-124
1,2,3-Trichloropropane	50	52	104	4	40	57-140
n-Propylbenzene	50	52	104	4	40	72-119
2-Chlorotoluene	50	51	102	2	40	75-120
1,3,5-Trimethylbenzene	50	54	108	2	40	76-116
4-Chlorotoluene	50	51	102	2	40	78-116
tert-Butylbenzene	50	55	110	4	40	71-116
1,2,4-Trimethylbenzene	50	55	110	4	40	77-117
sec-Butylbenzene	50	58	116	4	40	67-117
4-Isopropyltoluene	50	56	112	4	40	68-118

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: V6ULCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,3-Dichlorobenzene	50	51	102	2	40	80-116
1,4-Dichlorobenzene	50	52	104	4	40	80-114
n-Butylbenzene	50	58	116	4	40	58-121
1,2-Dichlorobenzene	50	51	102	2	40	81-116
1,2-Dibromo-3-chloropro	50	48	96	4	40	71-126
1,2,4-Trichlorobenzene	50	49	98	4	40	67-114
Hexachlorobutadiene	50	47	94	2	40	50-111
Naphthalene	50	47	94	4	40	58-133
1,2,3-Trichlorobenzene	50	48	96	2	40	64-118
1-Chlorohexane	50	49	98	4	40	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 66 outside limits
Spike Recovery: 0 out of 132 outside limits

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.: VBLK6U

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID: V6C3692 Lab Sample ID: V6B1114A

Date Analyzed: 11/14/02 Time Analyzed: 1157

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: V6

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V6ULCS	V6L1114A	V6C3695	1427
02	V6ULCSD	V6L1114B	V6C3696	1454
03	AOC112T1	A1627-06A	V6C3697	1521
04	AOC112E1	A1627-07A	V6C3698	1549
05	AOC2E3	A1627-13A	V6C3699	1616
06	AOC13E2	A1627-25A	V6C3700	1644
07	AOC2E4	A1627-51A	V6C3703	1820
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.: V5LK5C

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID: V5E1626 Lab Sample ID: V5B1115B

Date Analyzed: 11/15/02 Time Analyzed: 2134

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: V5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V5CLCS	V5L1115B	V5E1627	2203
02	V5CLCSD	V5L1115C	V5E1628	2233
03	12TB1524	A1627-02B	V5E1629	2302
04	13SSTB3435	A1627-29B	V5E1631	0016
05	13SSTB2413	A1627-30B	V5E1632	0048
06	13SSTB3124	A1627-31B	V5E1634	0152
07	12TB1068	A1627-03B	V5E1635	0221
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.: V8LK1O

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID: V1F1082 Lab Sample ID: V1B1118A

Date Analyzed: 11/18/02 Time Analyzed: 1152

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: V1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V1OLCS	V1L1118B	V1F1085	1321
02	13SSTB3435DL	A1627-29A	V1F1100	2036
03	13SSTB2413DL	A1627-30A	V1F1101	2104
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID: V1F1040 BFB Injection Date: 11/15/02

Instrument ID: V1 BFB Injection Time: 1058

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.4
75	30.0 - 60.0% of mass 95	41.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	65.0
175	5.0 - 9.0% of mass 174	4.9 (7.6)1
176	95.0 - 101.0% of mass 174	63.0 (97.0)1
177	5.0 - 9.0% of mass 176	4.1 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V5TD0051M	V1S1115B	V1F1042	11/15/02	1201
02	V5TD2001M	V1S1115D	V1F1044	11/15/02	1300
03	V5TD1001M	V1S1115E	V1F1045	11/15/02	1329
04	V5TD0501M	V1S1115A	V1F1046	11/15/02	1358
05	V5TD0201M	V1S1115F	V1F1047	11/15/02	1427
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID: V1F1080A BFB Injection Date: 11/18/02

Instrument ID: V1 BFB Injection Time: 1041

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.2
75	30.0 - 60.0% of mass 95	40.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	66.2
175	5.0 - 9.0% of mass 174	4.9 (7.4)1
176	95.0 - 101.0% of mass 174	64.3 (97.1)1
177	5.0 - 9.0% of mass 176	4.2 (6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	V5TD0501O	V1S1118A	V1F1081	11/18/02	1118
02	V8LK1O	V1B1118A	V1F1082	11/18/02	1152
03	V1OLCS	V1L1118B	V1F1085	11/18/02	1321
04	13SSTB3435DL	A1627-29A	V1F1100	11/18/02	2036
05	13SSTB2413DL	A1627-30A	V1F1101	11/18/02	2104
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID: V5E1620 BFB Injection Date: 11/15/02

Instrument ID: V5 BFB Injection Time: 1836

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.3
75	30.0 - 60.0% of mass 95	48.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	69.0
175	5.0 - 9.0% of mass 174	5.1 (7.5)1
176	95.0 - 101.0% of mass 174	66.6 (96.5)1
177	5.0 - 9.0% of mass 176	4.3 (6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD2005C	V5S1115B	V5E1621	11/15/02	1906
02	VSTD1005C	V5S1115C	V5E1622	11/15/02	1935
03	VSTD0505C	V5S1115D	V5E1623	11/15/02	2005
04	VSTD0205C	V5S1115E	V5E1624	11/15/02	2035
05	VSTD0055C	V5S1115F	V5E1625	11/15/02	2104
06	VBLK5C	V5B1115B	V5E1626	11/15/02	2134
07	V5CLCS	V5L1115B	V5E1627	11/15/02	2203
08	V5CLCSD	V5L1115C	V5E1628	11/15/02	2233
09	12TB1524	A1627-02B	V5E1629	11/15/02	2302
10	13SSTB3435	A1627-29B	V5E1631	11/16/02	0016
11	13SSTB2413	A1627-30B	V5E1632	11/16/02	0048
12	13SSTB3124	A1627-31B	V5E1634	11/16/02	0152
13	12TB1068	A1627-03B	V5E1635	11/16/02	0221
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID: V6C3420 BFB Injection Date: 10/17/02

Instrument ID: V6 BFB Injection Time: 1534

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.6
75	30.0 - 60.0% of mass 95	48.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.6 (0.6)1
174	50.0 - 100.0% of mass 95	93.5
175	5.0 - 9.0% of mass 174	6.7 (7.2)1
176	95.0 - 101.0% of mass 174	93.1 (99.6)1
177	5.0 - 9.0% of mass 176	6.4 (6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0506I	V6S1017A	V6C3421	10/17/02	1604
02	VSTD0056I	V6S1017B	V6C3422	10/17/02	1632
03	VSTD2006I	V6S1017D	V6C3424	10/17/02	1728
04	VSTD1006I	V6S1017E	V6C3425	10/17/02	1756
05	VSTD0206I	V6S1017F	V6C3426	10/17/02	1824
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID: V6C3690 BFB Injection Date: 11/14/02

Instrument ID: V6 BFB Injection Time: 1005

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.4
75	30.0 - 60.0% of mass 95	47.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.3 (0.3)1
174	50.0 - 100.0% of mass 95	94.1
175	5.0 - 9.0% of mass 174	6.8 (7.2)1
176	95.0 - 101.0% of mass 174	92.1 (97.8)1
177	5.0 - 9.0% of mass 176	5.9 (6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0506U	V6S1114A	V6C3691	11/14/02	1122
02	VBLK6U	V6B1114A	V6C3692	11/14/02	1157
03	V6ULCS	V6L1114A	V6C3695	11/14/02	1427
04	V6ULCSD	V6L1114B	V6C3696	11/14/02	1454
05	AOC112T1	A1627-06A	V6C3697	11/14/02	1521
06	AOC112E1	A1627-07A	V6C3698	11/14/02	1549
07	AOC2E3	A1627-13A	V6C3699	11/14/02	1616
08	AOC13E2	A1627-25A	V6C3700	11/14/02	1644
09	AOC2E4	A1627-51A	V6C3703	11/14/02	1820
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): V1F1081 Date Analyzed: 11/18/02

Instrument ID: V1 Time Analyzed: 1118

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #
12 HOUR STD	1601631	6.06	1086054	9.75	544217	12.69
UPPER LIMIT	3203262	6.56	2172108	10.25	1088434	13.19
LOWER LIMIT	800816	5.56	543027	9.25	272109	12.19
EPA SAMPLE NO.						
01 VBLK1O	1455825	6.06	967788	9.75	421700	12.69
02 V1OLCS	1572715	6.06	1063647	9.75	544227	12.69
03 13SSTB3435DL	1551496	6.03	1035355	9.73	464685	12.67
04 13SSTB2413DL	1435219	6.03	969022	9.72	429978	12.67
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): V5E1623 Date Analyzed: 11/15/02

Instrument ID: V5 Time Analyzed: 2005

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	614021	6.27	438979	9.48	223491	12.22
UPPER LIMIT	1228042	6.77	877958	9.98	446982	12.72
LOWER LIMIT	307011	5.77	219490	8.98	111746	11.72
EPA SAMPLE NO.						
01 VBLK5C	761940	6.27	540958	9.49	232103	12.22
02 V5CLCS	644706	6.28	458026	9.49	231767	12.22
03 V5CLCSD	619016	6.27	452123	9.48	229612	12.22
04 12TB1524	670444	6.28	473233	9.49	201287	12.22
05 13SSTB3435	466942	6.28	319525	9.48	140674	12.22
06 13SSTB2413	309284	6.28	208126*	9.49	90079*	12.22
07 13SSTB3124	427016	6.28	300417	9.49	133858	12.22
08 12TB1068	426242	6.27	279235	9.48	108964*	12.23
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): V6C3691 Date Analyzed: 11/14/02

Instrument ID: V6 Time Analyzed: 1122

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	1530309	7.04	1225663	10.77	675366	13.59
UPPER LIMIT	3060618	7.54	2451326	11.27	1350732	14.09
LOWER LIMIT	765155	6.54	612832	10.27	337683	13.09
EPA SAMPLE NO.						
01 VBLK6U	1527065	7.03	1185436	10.77	615508	13.59
02 V6ULCS	1551390	7.03	1246707	10.77	680931	13.59
03 V6ULCSD	1561623	7.03	1253368	10.77	685905	13.59
04 AOC112T1	1530398	7.03	1176673	10.77	603472	13.59
05 AOC112E1	1493093	7.03	1150578	10.77	596452	13.59
06 AOC2E3	1453388	7.03	1123970	10.77	577142	13.59
07 AOC13E2	1444875	7.03	1131592	10.77	576424	13.59
08 AOC2E4	1629775	7.03	1238477	10.77	626688	13.59
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 12TB1068

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-03B

Sample wt/vol: 14.8 (g/mL) G Lab File ID: V5E1635

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: not dec. 9 Date Analyzed: 11/16/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluorcmethane	2	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	65	
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	2	U
1634-04-4	Methyl tert-butyl ether	2	U
75-34-3	1,1-Dichloroethane	2	U
78-93-3	2-Butanone	6	
156-59-2	cis-1,2-Dichloroethene	2	U
590-20-7	2,2-Dichloropropane	2	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
109-99-9	Tetrahydrofuran	2	U
71-55-6	1,1,1-Trichloroethane	2	U
563-58-6	1,1-Dichloropropene	2	U
56-23-5	Carbon Tetrachloride	2	U
107-06-2	1,2-Dichloroethane	2	U
71-43-2	Benzene	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-pentanone	2	U
108-88-3	Toluene	2	U
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
127-18-4	Tetrachloroethene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 12TB1068

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-03B

Sample wt/vol: 14.8 (g/mL) G Lab File ID: V5E1635

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: not dec. 9 Date Analyzed: 11/16/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	2	U
124-48-1	Dibromochlorcmethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	2	U
	m,p-Xylene	2	U
95-47-6	o-Xylene	2	U
1330-20-7	Xylene (Total)	2	U
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
106-43-4	4-Chlorotoluene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
99-87-6	4-Isopropyltoluene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
87-68-3	Hexachlorobutadiene	2	U
91-20-3	Naphthalene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U
544-10-5	1-Chlorohexane	2	U
107-13-1	Acrylonitrile	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
12TB1068

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-03B

Sample wt/vol: 14.8 (g/mL) G Lab File ID: V5E1635

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: not dec. 9 Date Analyzed: 11/16/02

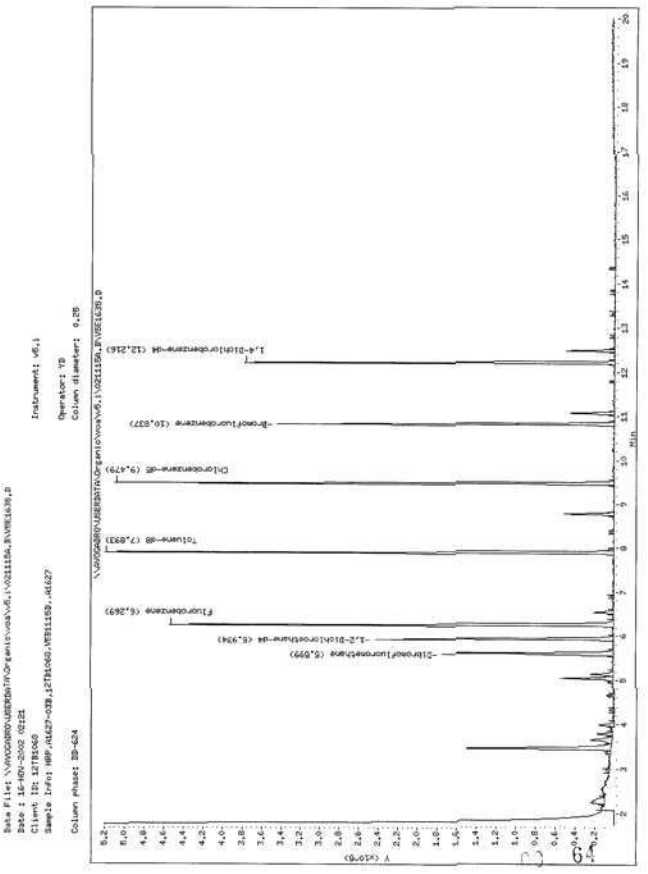
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.04	3	J
2.	UNKNOWN	8.78	2	J
3.	UNKNOWN	11.07	2	J
4.	UNKNOWN	12.48	2	J
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0



Data File: V5E1635.D
Report Date: 04-Dec-2002 12:55

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\V5E1635.D
Lab Smp Id: A1627-03B Client Smp ID: 12TB1068
Inj Date : 16-NOV-2002 02:21
Operator : YD Inst ID: v5.i
Smp Info : HRP,A1627-03B,12TB1068,V5B1115B,,A1627
Misc Info : 8-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\v58260H.m
Meth Date : 04-Dec-2002 12:53 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 21:04 Cal File: V5E1625.D
Als bottle: 32
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	14.800	Weight of sample (g)
M	9.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
9 Acetone	43	3.443	3.441	(0.549)	300871	175.438	65
22 2-Butanone	43	5.137	5.134	(0.819)	42416	17.1486	6(Q)
$ 30 Dibromofluoromethane	113	5.595	5.597	(0.893)	121980	51.5968	19
$ 35 1,2-Dichloroethane-d4	102	5.934	5.932	(0.947)	29903	52.1224	19
* 38 Fluorobenzene	96	6.269	6.267	(1.000)	426243	50.0000	
$ 47 Toluene-d8	98	7.894	7.901	(0.833)	386819	53.5503	20
* 57 Chlorobenzene-d5	117	9.479	9.474	(1.000)	279235	50.0000	
$ 68 Bromofluorobenzene	95	10.837	10.835	(1.143)	143784	46.4323	17
* 81 1,4-Dichlorobenzene-d4	152	12.226	12.224	(1.000)	108964	50.0000	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

YD 12/6/02

Data File: V5E1635.D
Report Date: 26-Nov-2002 14:32

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\V5E1635.D
Lab Smp Id: A1627-03B Client Smp ID: 12TB1068
Inj Date : 16-NOV-2002 02:21
Operator : YD Inst ID: v5.i
Smp Info : HRP,A1627-03B,12TB1068,V5B1115B,,A1627
Misc Info : 8-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\v58260H.m
Meth Date : 26-Nov-2002 12:06 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 21:04 Cal File: V5E1625.D
Als bottle: 32
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	14.800	Weight of sample (g)
M	9.000	% Moisture (not decanted)

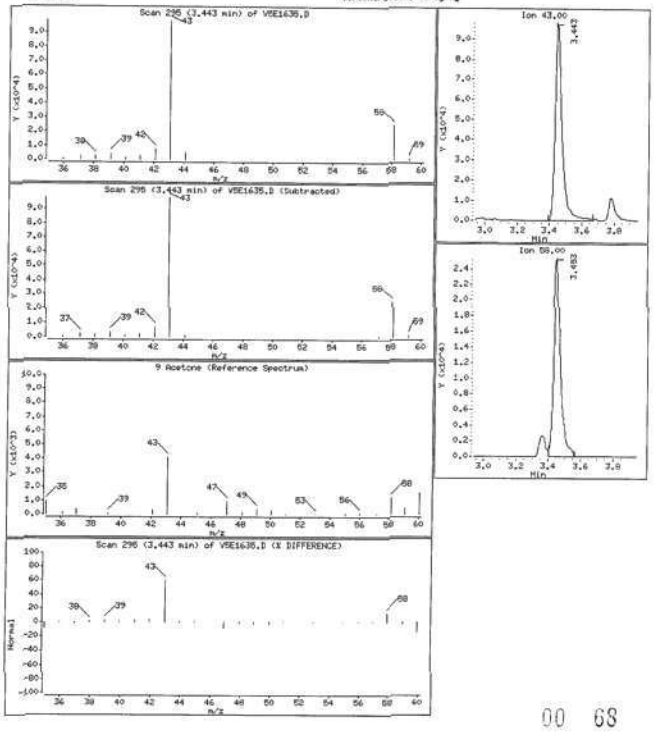
ISTD	RT	AREA	AMOUNT
* 38 Fluorobenzene	6.269	1004268	50.000
* 57 Chlorobenzene-d5	9.479	969644	50.000
* 81 1,4-Dichlorobenzene-d4	12.226	733325	50.000

RT	AREA	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	COMP #
Unknown			CAS #:				
5.038	141937	7.06171062	3	0		0	38

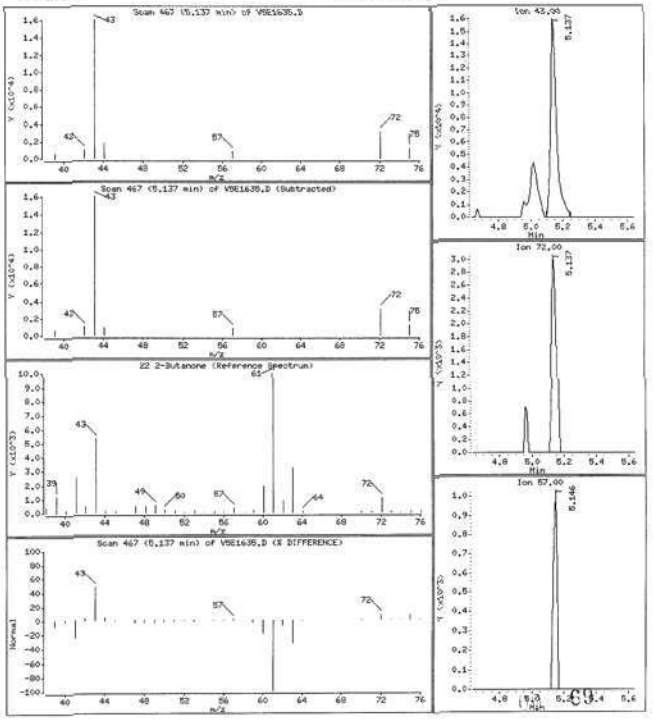
Data File: V5E1635.D
Report Date: 26-Nov-2002 14:32

RT	AREA	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown			CAS #:				
8.780	103058	5.31421841	2	0		0	57
Unknown			CAS #:				
11.074	99411	8.77803971	2	0		0	81
Unknown			CAS #:				
12.482	90570	6.17629745	2	0		0	81

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.1\021115A.B\V5E1635.D
Date : 16-NOV-2002 02:21
Client ID: 12TB1068
Instrument: v6.1
Sample Info: HRP,A1627-03B,12TB1068,V5B1115B,,A1627
Operator: YD
Column phase: DB-624
Column diameter: 0.25
9 Acetone
Concentration: 68 ug/Kg

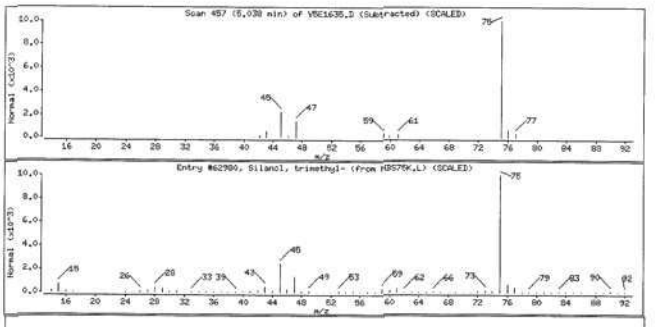


Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.1\021115A.B\V5E1635.D
Date : 16-NOV-2002 02:21
Client ID: 12TB1068
Instrument: v6.1
Sample Info: HRP,A1627-03B,12TB1068,V5B1115B,,A1627
Operator: YD
Column phase: DB-624
Column diameter: 0.25
22 2-Butanone
Concentration: 6 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.1\021115A.B\V5E1635.D
Date : 16-NOV-2002 02:21
Client ID: 12TB1068
Instrument: v6.1
Sample Info: HRP,A1627-03B,12TB1068,V5B1115B,,A1627
Operator: YD
Column phase: DB-624
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Silanol, trimethyl-	1066-40-6	NBS75K.L	62900	83	C3H10OSi	90



Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\V5E1635.D

Date : 16-NOV-2002 02:21

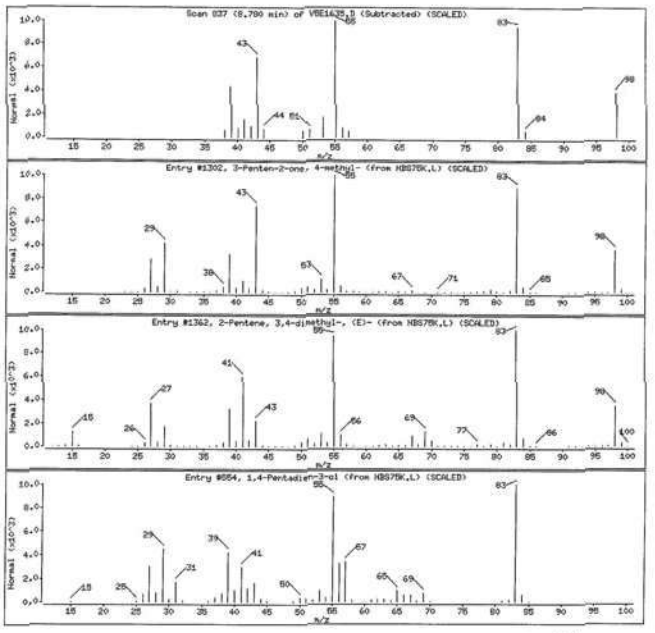
Client ID: 12TB1068 Instrument: v5.i

Sample Info: HRP,A1627-03B,12TB1068,V5I1115B,,A1627

Operator: YD

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
3-Penten-2-one, 4-methyl-	141-79-7	NBS75K.L	1302	68	C6H10O	98
2-Pentene, 3,4-dimethyl-, (E)-	4914-92-6	NBS75K.L	1362	64	C7H14	98
1,4-Pentadien-3-ol	922-65-6	NBS75K.L	554	64	C5H8O	84



00 71

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\V5E1635.D

Date : 16-NOV-2002 02:21

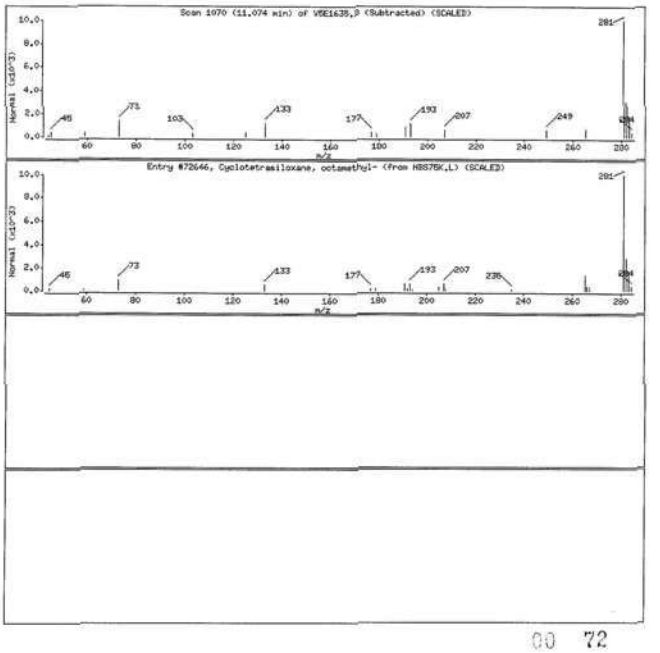
Client ID: 12TB1068 Instrument: v5.i

Sample Info: HRP,A1627-03B,12TB1068,V5I1115B,,A1627

Operator: YD

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS75K.L	72646	78	C8H24O4Si4	296



00 72

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\V5E1635.D

Date : 16-NOV-2002 02:21

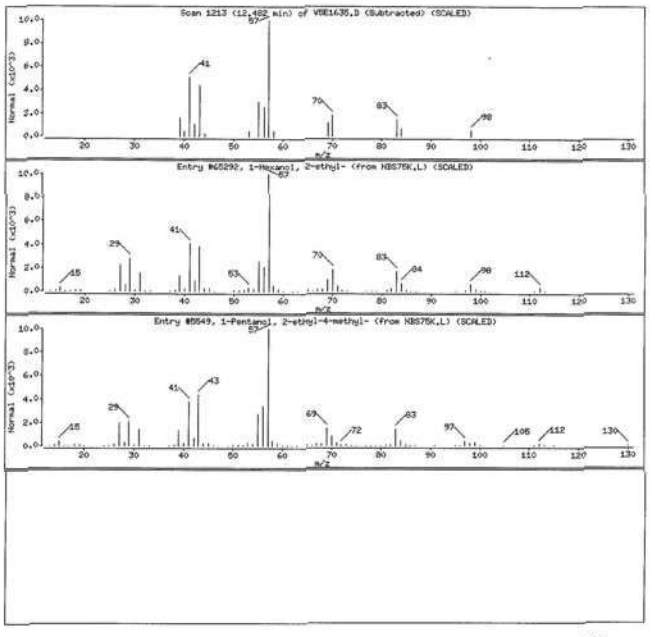
Client ID: 12TB1068 Instrument: v5.i

Sample Info: HRP,A1627-03B,12TB1068,V5I1115B,,A1627

Operator: YD

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Hexanol, 2-ethyl-	104-76-7	NBS75K.L	65292	78	C8H18O	130
1-Pentanol, 2-ethyl-4-methyl-	106-67-2	NBS75K.L	5549	64	C8H18O	130



00 73

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12TB1524

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-02B

Sample wt/vol: 8.5 (g/mL) G Lab File ID: V5E1629

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: not dec. 13 Date Analyzed: 11/15/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	3	U
74-87-3	Chloromethane	3	U
75-01-4	Vinyl Chloride	3	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-69-4	Trichlorofluoromethane	3	U
75-35-4	1,1-Dichloroethene	3	U
67-64-1	Acetone	84	
75-09-2	Methylene Chloride	3	U
156-60-5	trans-1,2-Dichloroethene	3	U
1634-04-4	Methyl tert-butyl ether	3	U
75-34-3	1,1-Dichloroethane	3	U
78-93-3	2-Butanone	19	
156-59-2	cis-1,2-Dichloroethene	3	U
590-20-7	2,2-Dichloropropane	3	U
74-97-5	Bromochloromethane	3	U
67-66-3	Chloroform	3	U
109-99-9	Tetrahydrofuran	3	U
71-55-6	1,1,1-Trichloroethane	3	U
563-58-6	1,1-Dichloropropene	3	U
56-23-5	Carbon Tetrachloride	3	U
107-06-2	1,2-Dichloroethane	3	U
71-43-2	Benzene	3	U
79-01-6	Trichloroethene	3	U
78-87-5	1,2-Dichloropropane	3	U
74-95-3	Dibromomethane	3	U
75-27-4	Bromodichloromethane	3	U
10061-01-5	cis-1,3-Dichloropropene	3	U
108-10-1	4-Methyl-2-pentanone	3	U
108-88-3	Toluene	3	U
10061-02-6	trans-1,3-Dichloropropene	3	U
79-00-5	1,1,2-Trichloroethane	3	U
142-28-9	1,3-Dichloropropane	3	U
127-18-4	Tetrachloroethene	3	U

FORM I VOA OLM03.0

00 74

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12TB1524

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-02B
Sample wt/vol: 8.5 (g/mL) G Lab File ID: V5E1629
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. 13 Date Analyzed: 11/15/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	3	U
124-48-1	Dibromochloromethane	3	U
106-93-4	1,2-Dibromoethane	3	U
108-90-7	Chlorobenzene	3	U
630-20-6	1,1,1,2-Tetrachloroethane	3	U
100-41-4	Ethylbenzene	3	U
	m,p-Xylene	3	U
95-47-6	o-Xylene	3	U
1330-20-7	Xylene (Total)	3	U
100-42-5	Styrene	3	U
75-25-2	Bromoform	3	U
98-82-8	Isopropylbenzene	3	U
79-34-5	1,1,2,2-Tetrachloroethane	3	U
108-86-1	Bromobenzene	3	U
96-18-4	1,2,3-Trichloropropane	3	U
103-65-1	n-Propylbenzene	3	U
95-49-8	2-Chlorotoluene	3	U
108-67-8	1,3,5-Trimethylbenzene	3	U
106-43-4	4-Chlorotoluene	3	U
98-06-6	tert-Butylbenzene	3	U
95-63-6	1,2,4-Trimethylbenzene	3	U
135-98-8	sec-Butylbenzene	3	U
99-87-6	4-Isopropyltoluene	3	U
541-73-1	1,3-Dichlorobenzene	3	U
106-46-7	1,4-Dichlorobenzene	3	U
104-51-8	n-Butylbenzene	3	U
95-50-1	1,2-Dichlorobenzene	3	U
96-12-8	1,2-Dibromo-3-chloropropane	3	U
120-82-1	1,2,4-Trichlorobenzene	3	U
87-68-3	Hexachlorobutadiene	3	U
91-20-3	Naphthalene	3	U
87-61-6	1,2,3-Trichlorobenzene	3	U
544-10-5	1-Chlorohexane	3	U
107-13-1	Acrylonitrile	3	U

FORM I VOA OLM03.0

00 75

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
12TB1524

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-02B
Sample wt/vol: 8.5 (g/mL) G Lab File ID: V5E1629
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. 13 Date Analyzed: 11/15/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

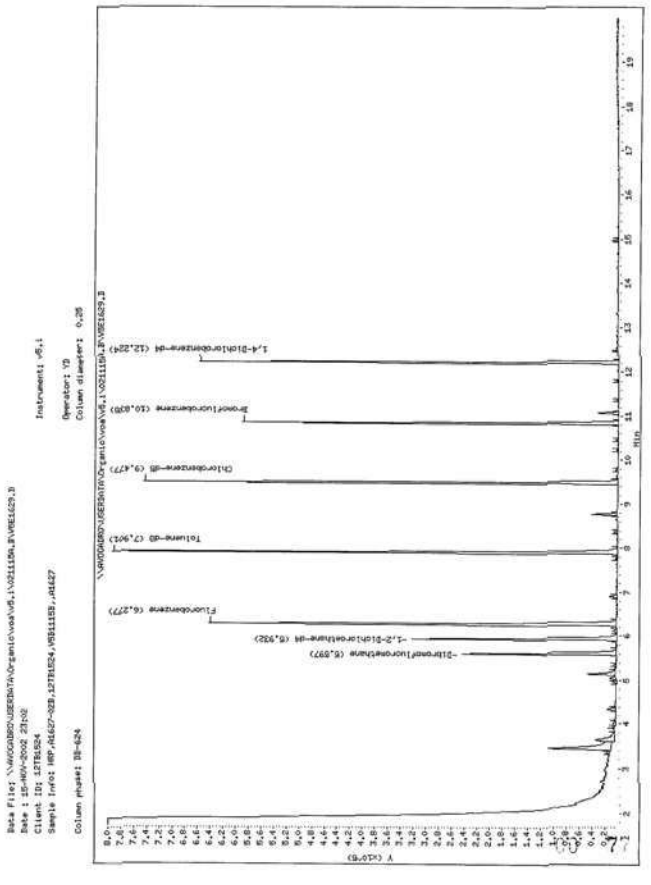
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

00 76



Data File: V5E1629.D
Report Date: 04-Dec-2002 12:54

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\V5E1629.D
Lab Smp Id: A1627-02B Client Smp ID: 12TB1524
Inj Date : 15-NOV-2002 23:02
Operator : YD Inst ID: v5.i
Smp Info : HRP,A1627-02B,12TB1524,V5B1115B,,A1627
Misc Info : 8-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\v58260H.m
Meth Date : 04-Dec-2002 12:53 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 21:04 Cal File: V5E1625.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	8.500	Weight of sample (g)
M	13.000	% Moisture (not decanted)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
	3 Acetone	43	3.451	3.441	(0.550)	336972	124.920	84
	22 2-Butanone	43	5.144	5.134	(0.820)	111007	28.5327	19(Q)
S	30 Dibromofluoromethane	113	5.597	5.597	(0.892)	183365	49.3111	33
S	35 1,2-Dichloroethane-d4	102	5.932	5.932	(0.945)	45465	50.3626	34
*	38 Fluorobenzene	96	6.277	6.267	(1.000)	670444	50.0000	
S	47 Toluene-d8	98	7.901	7.901	(0.833)	623753	50.9521	34
*	57 Chlorobenzene-d5	117	9.486	9.476	(1.000)	473233	50.0000	
S	68 Bromofluorobenzene	95	10.035	10.035	(1.142)	250829	47.7950	32
*	81 1,4-Dichlorobenzene-d4	152	12.224	12.224	(1.000)	201387	50.0000	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

12/16/02

00 78

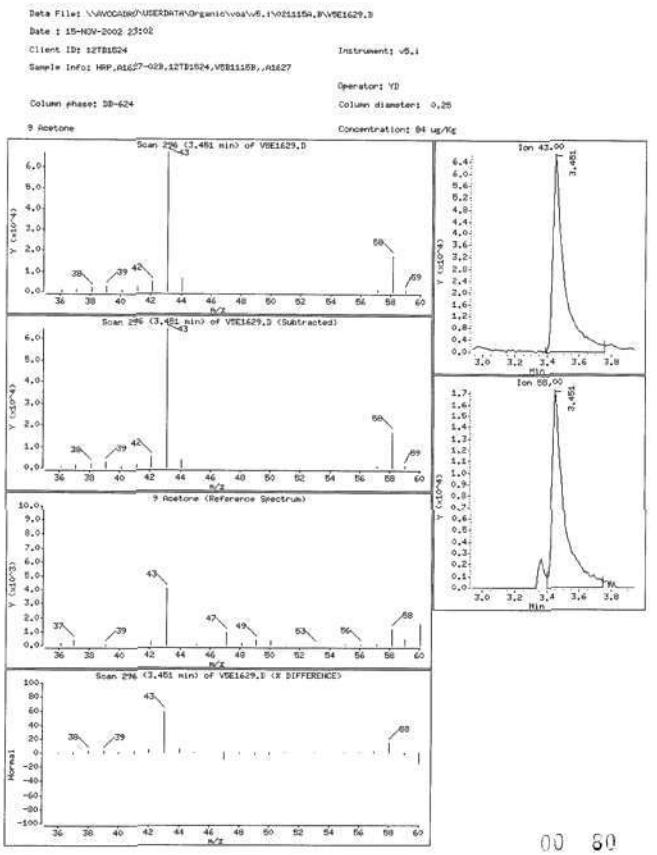
Data File: V5E1629.D
Report Date: 26-Nov-2002 14:32

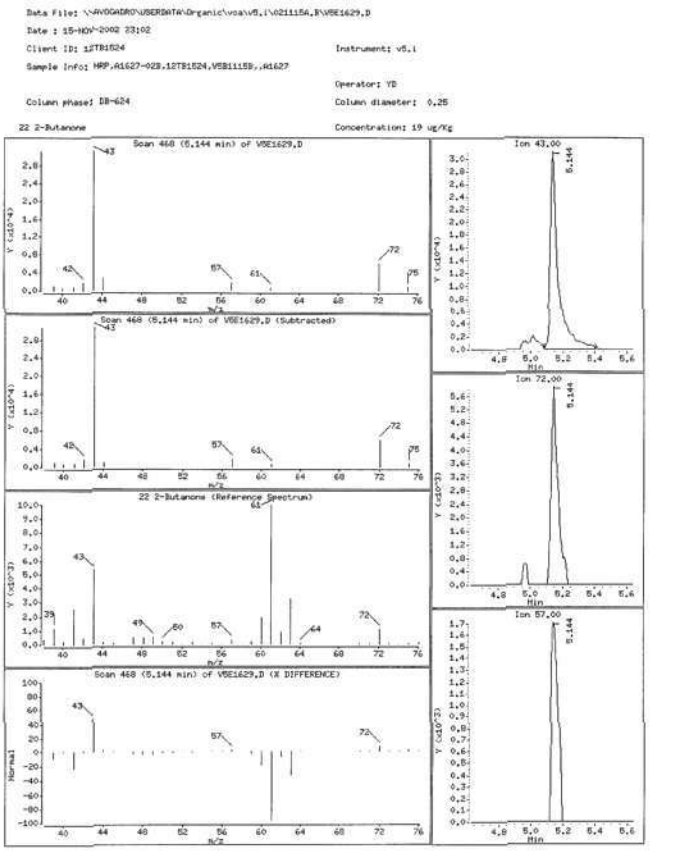
Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\V5E1629.D
Lab Smp Id: A1627-02B Client Smp ID: 12TB1524
Inj Date : 15-NOV-2002 23:02
Operator : YD Inst ID: v5.i
Smp Info : HRP,A1627-02B,12TB1524,V5B1115B,,A1627
Misc Info : 8-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\v58260H.m
Meth Date : 26-Nov-2002 12:06 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 21:04 Cal File: V5E1625.D
Als bottle: 26
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

- NO TENTATIVELY IDENTIFIED COMPOUNDS -





1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13SSTB2413

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-30B
Sample wt/vol: 6.8 (g/mL) G Lab File ID: V5E1632
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. 15 Date Analyzed: 11/16/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	4	U
74-87-3	Chloromethane	4	U
75-01-4	Vinyl Chloride	4	U
74-83-9	Bromomethane	4	U
75-00-3	Chloroethane	4	U
75-69-4	Trichlorofluoromethane	4	U
75-35-4	1,1-Dichloroethene	4	U
67-64-1	Acetone	300	B
75-09-2	Methylene Chloride	4	U
156-60-5	trans-1,2-Dichloroethene	4	U
1634-04-4	Methyl tert-butyl ether	4	U
75-34-3	1,1-Dichloroethane	4	U
78-93-3	2-Butanone	17	
156-59-2	cis-1,2-Dichloroethene	4	U
590-20-7	2,2-Dichloropropane	4	U
74-97-5	Bromochloromethane	4	U
67-66-3	Chloroform	4	U
109-99-9	Tetrahydrofuran	4	U
71-55-6	1,1,1-Trichloroethane	4	U
563-58-6	1,1-Dichloropropene	4	U
56-23-5	Carbon Tetrachloride	4	U
107-06-2	1,2-Dichloroethane	4	U
71-43-2	Benzene	4	U
79-01-6	Trichloroethene	4	U
78-87-5	1,2-Dichloropropane	4	U
74-95-3	Dibromomethane	4	U
75-27-4	Bromodichloromethane	4	U
10061-01-5	cis-1,3-Dichloropropene	4	U
108-10-1	4-Methyl-2-pentanone	4	U
108-88-3	Toluene	4	U
10061-02-6	trans-1,3-Dichloropropene	4	U
79-00-5	1,1,2-Trichloroethane	4	U
142-28-9	1,3-Dichloropropane	4	U
127-18-4	Tetrachloroethene	4	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13SSTB2413

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-30B

Sample wt/vol: 6.8 (g/mL) G Lab File ID: V5E1632

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: not dec. 15 Date Analyzed: 11/16/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	4	U
124-48-1	Dibromochloromethane	4	U
106-93-4	1,2-Dibromoethane	4	U
108-90-7	Chlorobenzene	4	U
630-20-6	1,1,1,2-Tetrachloroethane	4	U
100-41-4	Ethylbenzene	4	U
----------	m,p-Xylene	4	U
95-47-6	o-Xylene	4	U
1330-20-7	Xylene (Total)	4	U
100-42-5	Styrene	4	U
75-25-2	Bromoform	4	U
98-82-8	Isopropylbenzene	4	U
79-34-5	1,1,2,2-Tetrachloroethane	4	U
108-86-1	Bromobenzene	4	U
96-18-4	1,2,3-Trichloropropane	4	U
103-65-1	n-Propylbenzene	4	U
95-49-8	2-Chlorotoluene	4	U
108-67-8	1,3,5-Trimethylbenzene	4	U
106-43-4	4-Chlorotoluene	4	U
98-06-6	tert-Butylbenzene	4	U
95-63-6	1,2,4-Trimethylbenzene	4	U
135-98-8	sec-Butylbenzene	4	U
99-87-6	4-Isopropyltoluene	4	U
541-73-1	1,3-Dichlorobenzene	4	U
106-46-7	1,4-Dichlorobenzene	4	U
104-51-8	n-Butylbenzene	4	U
95-50-1	1,2-Dichlorobenzene	4	U
96-12-8	1,2-Dibromo-3-chloropropane	4	U
120-82-1	1,2,4-Trichlorobenzene	4	U
87-68-3	Hexachlorobutadiene	4	U
91-20-3	Naphthalene	4	U
87-61-6	1,2,3-Trichlorobenzene	4	U
544-10-5	1-Chlorohexane	4	U
107-13-1	Acrylonitrile	4	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
13SSTB2413

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-30B

Sample wt/vol: 6.8 (g/mL) G Lab File ID: V5E1632

Level: (low/med) LOW Date Received: 11/08/02

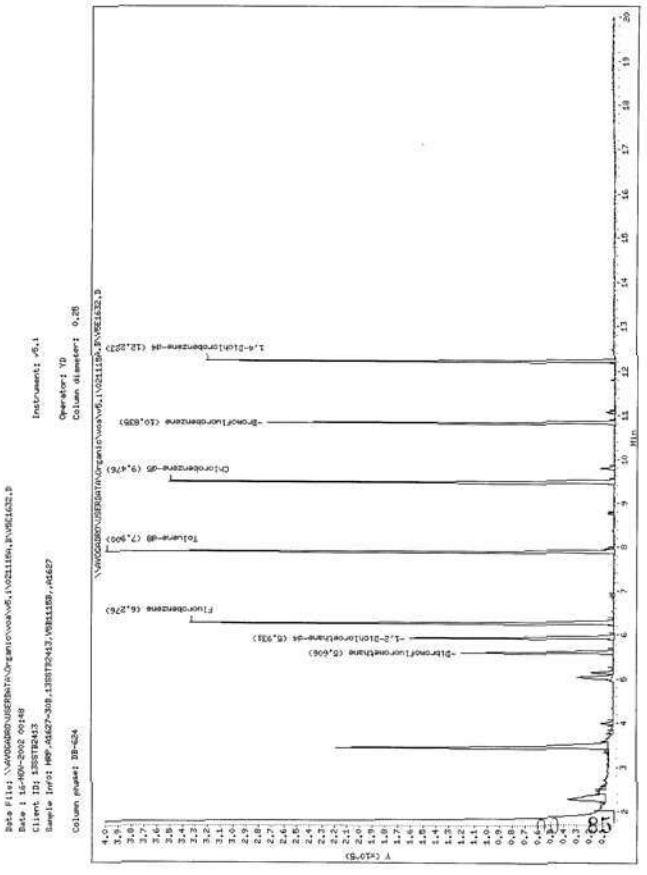
% Moisture: not dec. 15 Date Analyzed: 11/16/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.27	10	J
2.	UNKNOWN	5.04	5	J
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				



Data File: V5E1632.D
Report Date: 26-Nov-2002 14:32

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\V5E1632.D
Lab Smp Id: A1627-30B Client Smp ID: 13SSTB2413
Inj Date : 16-NOV-2002 00:48
Operator : YD Inst ID: v5.i
Smp Info : HRP,A1627-30B,13SSTB2413,V5B1115B,,A1627
Misc Info : 8-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\v58260H.m
Meth Date : 26-Nov-2002 12:06 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 21:04 Cal File: V5E1625.D ✓
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub ✓
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	6.800 ✓	Weight of sample (g)
M	15.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)	
9 Acetone	43	3.450	3.441	(0.650)	427577	343.603	300	(A)
22 2-Butanone	43	5.144	5.134	(0.920)	34934	19.4648	17	(Q)
S 30 Dibromofluoromethane	113	5.406	5.397	(0.893)	80186	51.4083	44	
S 35 1,2-Dichloroethane-d4	102	5.941	5.932	(0.947)	20808	49.9849	43	
* 38 Fluorobenzene	96	6.276	6.267	(1.000)	309284	50.0000		
S 47 Toluene-d8	98	7.900	7.901	(0.833)	292593	54.3453	47	
* 57 Chlorobenzene-d5	117	9.486	9.476	(1.000)	208126	50.0000		
S 68 Bromofluorobenzene	95	10.835	10.835	(1.142)	112018	48.5334	42	
* 81 1,4-Dichlorobenzene-d4	152	12.223	12.224	(1.000)	90079	50.0000		

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

YD 11/16/02

Data File: V5E1632.D
Report Date: 06-Dec-2002 09:57

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\V5E1632.D
Lab Smp Id: A1627-30B Client Smp ID: 13SSTB2413
Inj Date : 16-NOV-2002 00:48
Operator : YD Inst ID: v5.i
Smp Info : HRP,A1627-30B,13SSTB2413,V5B1115B,,A1627
Misc Info : 8-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\v58260H.m
Meth Date : 04-Dec-2002 12:53 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 21:04 Cal File: V5E1625.D
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

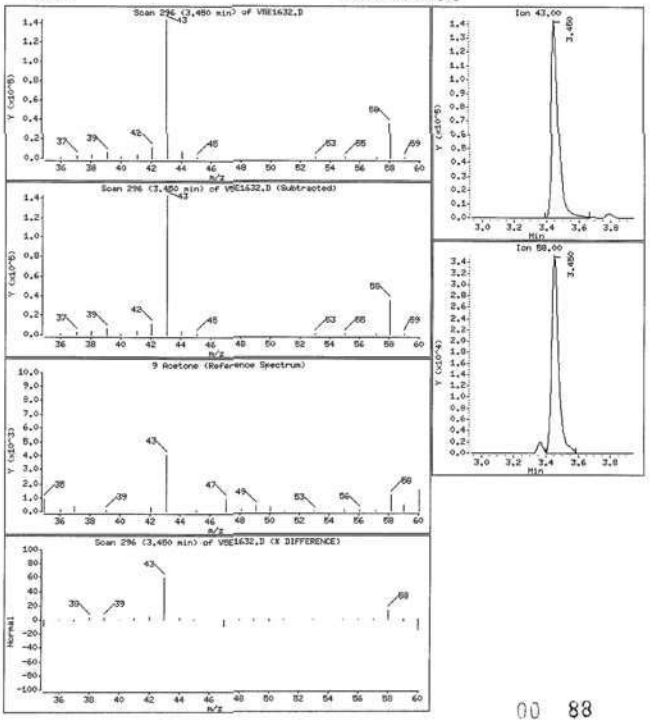
Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	6.800	Weight of sample (g)
M	15.000	% Moisture (not decanted)

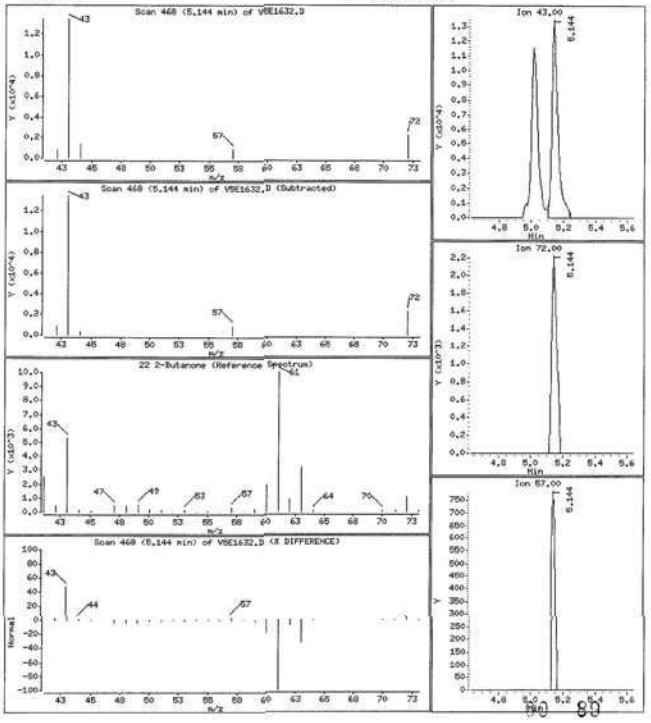
ISTD	RT	AREA	AMOUNT
* 38 Fluorobenzene	6.276	729688	50.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
2.269	174905	11.9869168	10	0		0	38
Unknown				CAS #:			
5.035	83284	5.70682264	5	0		0	38

Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\V5E1632.D
Date : 16-NOV-2002 00:48
Client ID: 13SSTB2413 Instrument: v5.i
Sample Info: HRP,A1627-30B,13SSTB2413,V5B1115B,,A1627
Operator: YD
Column phase: DB-624 Column diameter: 0.25
9 Acetone Concentration: 300 ug/Kg

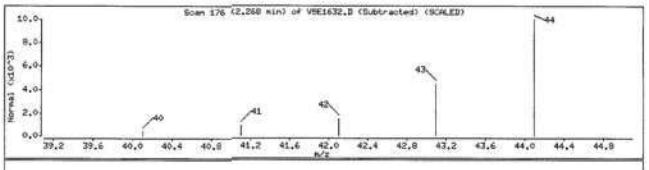


Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\V5E1632.D
Date : 16-NOV-2002 00:48
Client ID: 13SSTB2413 Instrument: v5.i
Sample Info: HRP,A1627-30B,13SSTB2413,V5B1115B,,A1627
Operator: YD
Column phase: DB-624 Column diameter: 0.25
22 2-Butanone Concentration: 17 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\V5E1632.D
Date : 16-NOV-2002 00:48
Client ID: 13SSTB2413 Instrument: v5.i
Sample Info: HRP,A1627-30B,13SSTB2413,V5B1115B,,A1627
Operator: YD
Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.1\0211158,B\V5E1632.D

Date : 16-NOV-2002 00:48

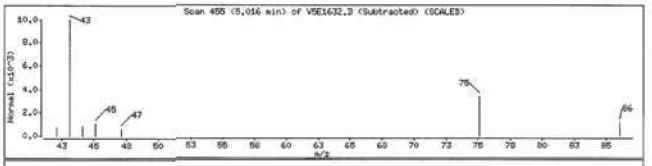
Client ID: 13SSTB2413 Instrument: v6.1

Sample Info: MRP,A1627-30B,13SSTB2413,V5B11158,,A1627

Operator: YD

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



00 91

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.1\0211158,B\V5E1632.D

Date : 16-NOV-2002 00:48

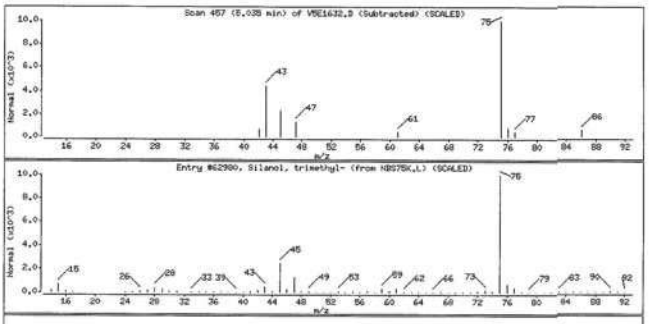
Client ID: 13SSTB2413 Instrument: v6.1

Sample Info: MRP,A1627-30B,13SSTB2413,V5B11158,,A1627

Operator: YD

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Silanol, trimethyl-	1066-40-6	NIST98K,L	62980	74	C3H10OSI	90



00 92

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13SSTB2413DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-30A

Sample wt/vol: 10.6 (g/mL) G Lab File ID: V1F1101

Level: (low/med) MED Date Received: 11/08/02

% Moisture: not dec. 15 Date Analyzed: 11/18/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	140	U
74-87-3	Chloromethane	140	U
75-01-4	Vinyl Chloride	140	U
74-83-9	Bromomethane	140	U
75-00-3	Chloroethane	140	U
75-69-4	Trichlorofluoromethane	140	U
75-35-4	1,1-Dichloroethene	140	U
67-64-1	Acetone	140	U
75-09-2	Methylene Chloride	46	DJ
107-13-1	Acrylonitrile	140	U
156-60-5	trans-1,2-Dichloroethene	140	U
1634-04-4	Methyl tert-butyl ether	140	U
75-34-3	1,1-Dichloroethane	140	U
78-93-3	2-Butanone	140	U
156-59-2	cis-1,2-Dichloroethene	140	U
590-20-7	2,2-Dichloropropane	140	U
74-97-5	Bromochloromethane	140	U
67-66-3	Chloroform	140	U
109-99-9	Tetrahydrofuran	140	U
71-55-6	1,1,1-Trichloroethane	140	U
563-58-6	1,1-Dichloropropene	140	U
56-23-5	Carbon Tetrachloride	140	U
107-06-2	1,2-Dichloroethane	140	U
71-43-2	Benzene	140	U
79-01-6	Trichloroethene	140	U
78-87-5	1,2-Dichloropropane	140	U
74-95-3	Dibromomethane	140	U
75-27-4	Bromodichloromethane	140	U
10061-01-5	cis-1,3-Dichloropropene	140	U
108-10-1	4-Methyl-2-pentanone	140	U
108-88-3	Toluene	140	U
10061-02-6	trans-1,3-Dichloropropene	140	U
79-00-5	1,1,2-Trichloroethane	140	U
142-28-9	1,3-Dichloropropane	140	U

FORM I VOA OLM03.0

00 93

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13SSTB2413DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-30A

Sample wt/vol: 10.6 (g/mL) G Lab File ID: V1F1101

Level: (low/med) MED Date Received: 11/08/02

% Moisture: not dec. 15 Date Analyzed: 11/18/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	140	U
591-78-6	2-Hexanone	140	U
124-48-1	Dibromochloromethane	140	U
106-93-4	1,2-Dibromoethane	140	U
108-90-7	Chlorobenzene	140	U
630-20-6	1,1,1,2-Tetrachloroethane	140	U
100-41-4	Ethylbenzene	140	U
	m,p-Xylene	140	U
95-47-6	o-Xylene	140	U
1330-20-7	Xylene (Total)	140	U
100-42-5	Styrene	140	U
75-25-2	Bromoform	140	U
98-82-8	Isopropylbenzene	140	U
79-34-5	1,1,2,2-Tetrachloroethane	140	U
108-86-1	Bromobenzene	140	U
96-18-4	1,2,3-Trichloropropane	140	U
103-65-1	n-Propylbenzene	140	U
95-49-8	2-Chlorotoluene	140	U
108-67-8	1,3,5-Trimethylbenzene	140	U
106-43-4	4-Chlorotoluene	140	U
98-06-6	tert-Butylbenzene	140	U
95-63-6	1,2,4-Trimethylbenzene	140	U
135-98-8	sec-Butylbenzene	140	U
99-87-6	4-Isopropyltoluene	140	U
541-73-1	1,3-Dichlorobenzene	140	U
106-46-7	1,4-Dichlorobenzene	140	U
104-51-8	n-Butylbenzene	140	U
95-50-1	1,2-Dichlorobenzene	140	U
96-12-8	1,2-Dibromo-3-chloropropane	140	U
120-82-1	1,2,4-Trichlorobenzene	140	U
87-68-3	Hexachlorobutadiene	140	U
91-20-3	Naphthalene	140	U
87-61-6	1,2,3-Trichlorobenzene	140	U
544-10-5	1-Chlorohexane	140	U

FORM I VOA OLM03.0

00 94

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
13SSTB2413DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-30A

Sample wt/vol: 10.6 (g/mL) G Lab File ID: V1F1101

Level: (low/med) MED Date Received: 11/08/02

% Moisture: not dec. 15 Date Analyzed: 11/18/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

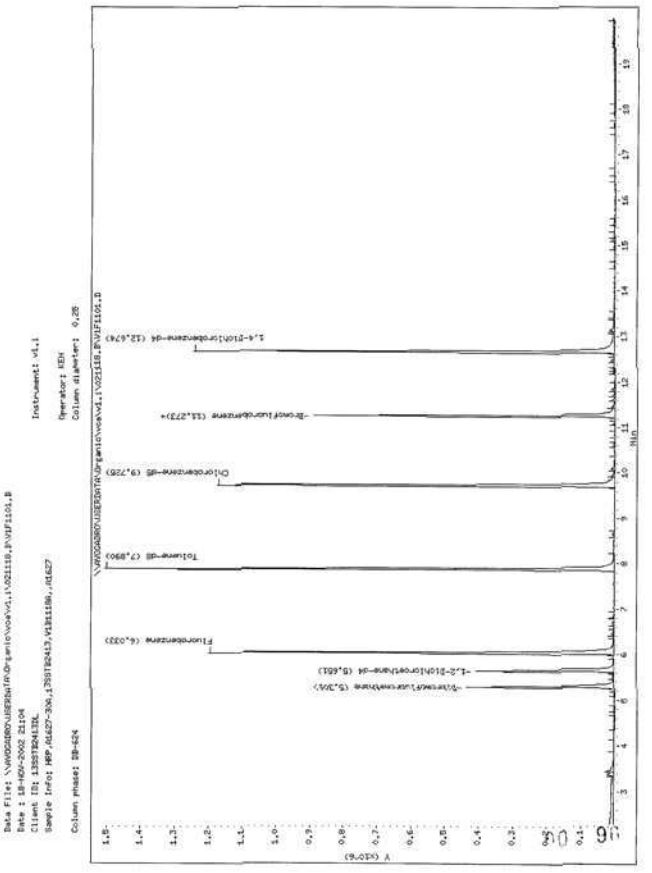
Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

00 95



00 96

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\V1F1101.D
Report Date: 26-Nov-2002 14:33

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\V1F1101.D
Lab Smp Id: A1627-30A Client Smp ID: 13SSTB2413DL
Inj Date : 18-NOV-2002 21:04
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1627-30A,13SSTB2413,V1B1118A,,A1627
Misc Info : 08-NOV-02,,,,2,1
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\v18260.m
Meth Date : 26-Nov-2002 12:19 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 14:27 Cal File: V1F1047.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf*(Vt*5000)/(Va*Ws*((100-M)/100)))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	10.570	Weight of sample (g)
M	15.000	% Moisture (not decanted)
Vt	5.000	Methanol extract volume (mL)
Va	100.000	Aliquot of methanol (uL)

Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
14 Methylene Chloride	84	3.655	3.484	(0.573)	14129	1.66972	46(a)
$ 30 Dibromofluoromethane	113	5.301	5.319	(0.879)	364097	49.7198	1400
$ 35 1,2-Dichloroethane-d4	102	5.651	5.680	(0.937)	83193	47.7899	1300
* 38 Fluorobenzene	96	6.033	6.062	(1.000)	1435219	50.0000	
$ 47 Toluene-d8	98	7.890	7.908	(0.811)	1304925	48.1952	1300
* 57 Chlorobenzene-d5	117	9.726	9.753	(1.000)	969022	50.0000	
$ 68 Bromofluorobenzene	95	11.273	11.291	(1.159)	472261	47.8811	1300
* 81 1,4-Dichlorobenzene-d4	152	12.674	12.692	(1.000)	629978	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

KD 11/26/02

00 97

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\V1F1101.D
Report Date: 26-Nov-2002 14:33

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\V1F1101.D
Lab Smp Id: A1627-30A Client Smp ID: 13SSTB2413DL
Inj Date : 18-NOV-2002 21:04
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1627-30A,13SSTB2413,V1B1118A,,A1627
Misc Info : 08-NOV-02,,,,2,1
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\v18260.m
Meth Date : 26-Nov-2002 12:19 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 14:27 Cal File: V1F1047.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

00 98

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1_1\021118_B\V1F1101.D

Date : 18-NOV-2002 21:04

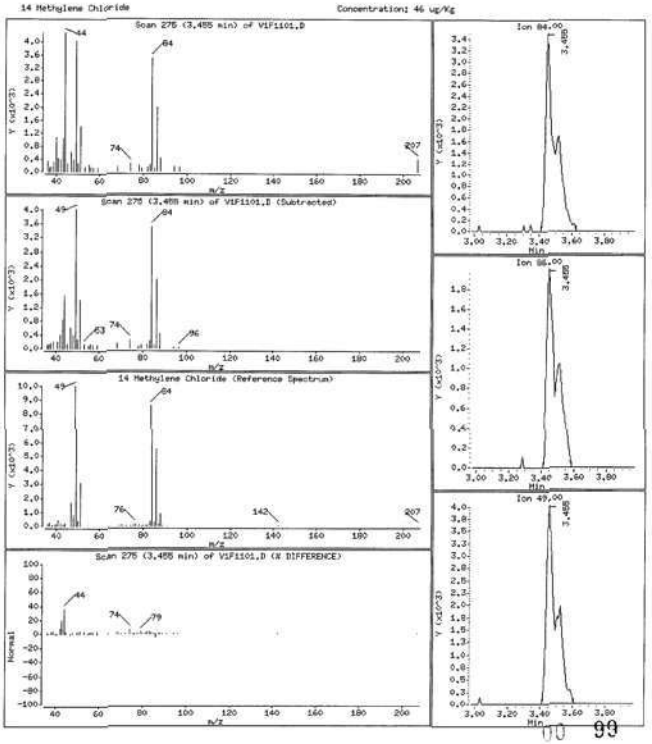
Client ID: 13SSTB2413DL Instrument: v1.1

Sample Info: HRP,A1627-30A,13SSTB2413,V1B1118A,,A1627

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

14 Methylene Chloride Concentration: 46 ug/Kg



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 13SSTB3124

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-31B

Sample wt/vol: 13.2 (g/mL) G Lab File ID: V5E1634

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: not dec. 6 Date Analyzed: 11/16/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	36	
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	2	U
1634-04-4	Methyl tert-butyl ether	2	U
75-34-3	1,1-Dichloroethane	2	U
78-93-3	2-Butanone	2	U
156-59-2	cis-1,2-Dichloroethene	2	U
590-20-7	2,2-Dichloropropane	2	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
109-99-9	Tetrahydrofuran	2	U
71-55-6	1,1,1-Trichloroethane	2	U
563-58-6	1,1-Dichloropropene	2	U
56-23-5	Carbon Tetrachloride	2	U
107-06-2	1,2-Dichloroethane	2	U
71-43-2	Benzene	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-pentanone	2	U
108-88-3	Toluene	0.4	J
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
127-18-4	Tetrachloroethene	2	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 13SSTB3124

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-31B

Sample wt/vol: 13.2 (g/mL) G Lab File ID: V5E1634

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: not dec. 6 Date Analyzed: 11/16/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	2	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	2	U
	m,p-Xylene	2	U
95-47-6	o-Xylene	2	U
1330-20-7	Xylene (Total)	2	U
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
106-43-4	4-Chlorotoluene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
99-87-6	4-Isopropyltoluene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
87-68-3	Hexachlorobutadiene	2	U
91-20-3	Naphthalene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U
544-10-5	1-Chlorohexane	2	U
107-13-1	Acrylonitrile	2	U

FORM I VOA OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: 13SSTB3124

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-31B

Sample wt/vol: 13.2 (g/mL) G Lab File ID: V5E1634

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: not dec. 6 Date Analyzed: 11/16/02

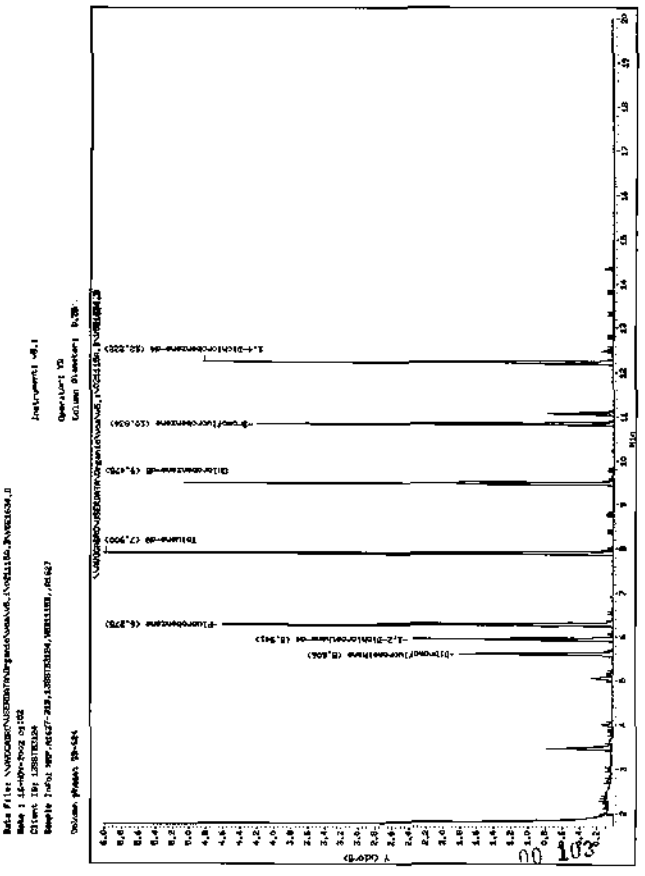
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	11.07	4	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0



Data File: V5E1634.D
Report Date: 26-Nov-2002 14:32

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\V5E1634.D
Lab Smp Id: A1627-31B Client Smp ID: 13SSTB3124
Inj Date : 16-NOV-2002 01:52
Operator : YD Inst ID: v5.i
Smp Info : HRP,A1627-31B,13SSTB3124,V5B1115B,,A1627
Misc Info : 8-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\v58260H.m
Meth Date : 26-Nov-2002 12:06 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 21:04 Cal File: V5E1625.D
Als bottle: 31
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	13.200	Weight of sample (g)
M	6.000	% Moisture (not decanted)

Compounds	QUANT RIO 2ONS8	RT	RRT RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
P Acetone	43	3.459	3.441	(0.951)	174832	90.9624	36
# 30 Dibromofluoromethane	113	5.606	5.597	(0.893)	139689	94.8444	77
# 35 1,2-Dichloroethane-d4	102	5.841	5.812	(0.967)	30439	91.1781	22
* 38 Fluorobenzene	96	6.275	6.247	(1.000)	423614	50.0000	
# 47 Toluene-d8	98	7.920	7.901	(0.811)	421747	94.4202	22
46 Toluene	91	7.968	7.970	(1.270)	20453	1.03064	0.41a)
* 57 Chlorobenzene-d5	117	9.485	9.474	(1.000)	826419	50.0000	
# 68 Bromofluorobenzene	95	10.836	10.835	(1.142)	344917	50.1826	20
* 81 1,4-Dichlorobenzene-d4	152	12.233	12.224	(1.000)	433838	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

00 104

Data File: V5E1634.D
Report Date: 26-Nov-2002 14:32

Mitkem Corporation

Method 8260 Water and Medium Soil

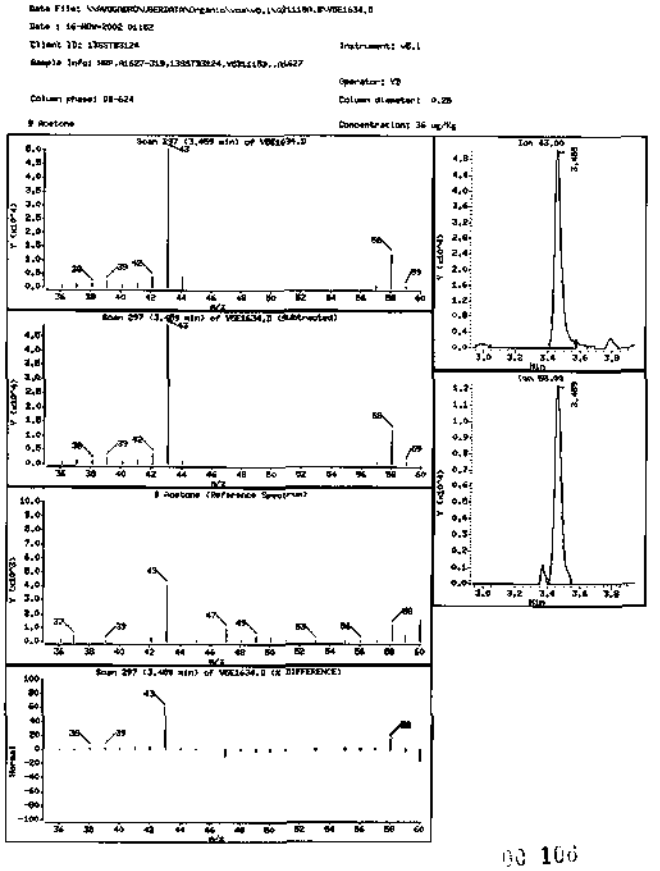
Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\V5E1634.D
Lab Smp Id: A1627-31B Client Smp ID: 13SSTB3124
Inj Date : 16-NOV-2002 01:52
Operator : YD Inst ID: v5.i
Smp Info : HRP,A1627-31B,13SSTB3124,V5B1115B,,A1627
Misc Info : 8-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\v58260H.m
Meth Date : 26-Nov-2002 12:06 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 21:04 Cal File: V5E1625.D
Als bottle: 31
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	13.200	Weight of sample (g)
M	6.000	% Moisture (not decanted)

ISTD	RT	AREA	AMOUNT
* 81 1,4-Dichlorobenzene-d4	12.222	907507	50.000

RT	AREA	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown					Cal #:		
11.078	144626	9.06472367		a	0	0	81



Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\0211158.B\V5E1634.D

Date : 16-NOV-2002 01:52

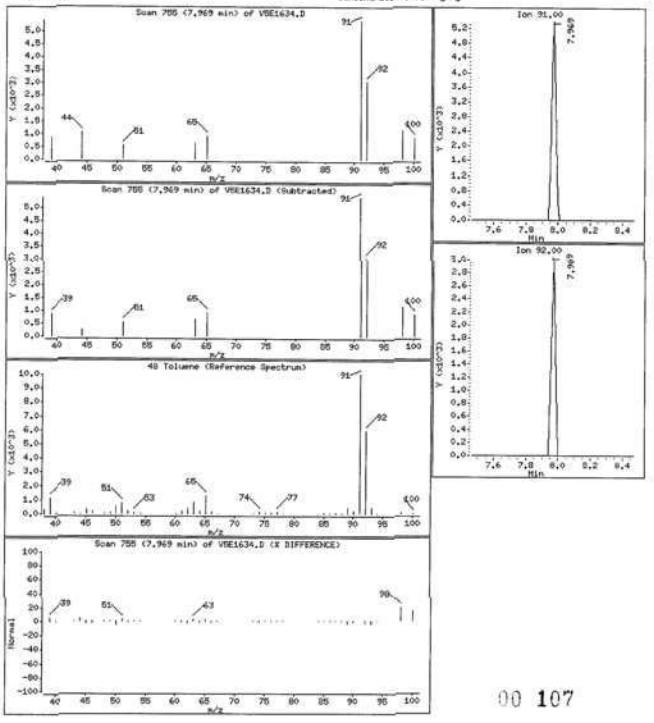
Client ID: 13SSTB3124 Instrument: V5.i

Sample Info: MRP,A1627-31B,13SSTB3124,V5B1115B,,A1627

Operator: YD

Column phase: DB-624 Column diameter: 0.25

48 Toluene Concentration: 0.4 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v5.i\0211158.B\V5E1634.D

Date : 16-NOV-2002 01:52

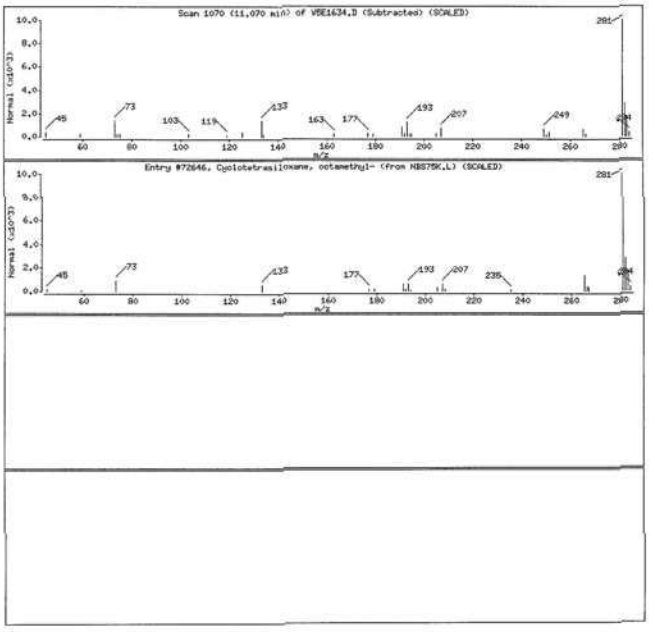
Client ID: 13SSTB3124 Instrument: V5.i

Sample Info: MRP,A1627-31B,13SSTB3124,V5B1115B,,A1627

Operator: YD

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS75K.L	72646	72	C8H24O4Si4	296



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 13SSTB3435

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-29B

Sample wt/vol: 8.2 (g/mL) G Lab File ID: V5E1631

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: not dec. 16 Date Analyzed: 11/16/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	4	U
74-87-3	Chloromethane	4	U
75-01-4	Vinyl Chloride	4	U
74-83-9	Bromomethane	4	U
75-00-3	Chloroethane	4	
75-69-4	Trichlorofluoromethane	4	U
75-35-4	1,1-Dichloroethene	34	
67-64-1	Acetone	630	E
75-09-2	Methylene Chloride	4	U
156-60-5	trans-1,2-Dichloroethene	4	U
1634-04-4	Methyl tert-butyl ether	4	U
75-34-3	1,1-Dichloroethane	380	E
78-93-3	2-Butanone	120	
156-59-2	cis-1,2-Dichloroethene	6	
590-20-7	2,2-Dichloropropane	4	U
74-97-5	Bromochloromethane	4	U
67-66-3	Chloroform	4	U
109-99-9	Tetrahydrofuran	4	U
71-55-6	1,1,1-Trichloroethane	4	U
563-58-6	1,1-Dichloropropene	4	U
56-23-5	Carbon Tetrachloride	4	U
107-06-2	1,2-Dichloroethane	4	U
71-43-2	Benzene	4	U
79-01-6	Trichloroethene	2	J
78-87-5	1,2-Dichloropropane	4	U
74-95-3	Dibromomethane	4	U
75-27-4	Bromodichloromethane	4	U
10061-01-5	cis-1,3-Dichloropropene	4	U
108-10-1	4-Methyl-2-pentanone	15	
108-88-3	Toluene	970	E
10061-02-6	trans-1,3-Dichloropropene	4	U
79-00-5	1,1,2-Trichloroethane	4	U
142-28-9	1,3-Dichloropropane	4	U
127-18-4	Tetrachloroethene	4	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 13SSTB3435

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-29B

Sample wt/vol: 8.2 (g/mL) G Lab File ID: V5E1631

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: not dec. 16 Date Analyzed: 11/16/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	4	U
124-48-1	Dibromochloromethane	4	U
106-93-4	1,2-Dibromoethane	4	U
108-90-7	Chlorobenzene	4	U
630-20-6	1,1,1,2-Tetrachloroethane	4	U
100-41-4	Ethylbenzene	3	J
----------	m,p-Xylene	12	
95-47-6	o-Xylene	4	
1330-20-7	Xylene (Total)	16	
100-42-5	Styrene	4	U
75-25-2	Bromoform	4	U
98-82-8	Isopropylbenzene	4	U
79-34-5	1,1,2,2-Tetrachloroethane	4	U
108-86-1	Bromobenzene	4	U
96-18-4	1,2,3-Trichloropropane	4	U
103-65-1	n-Propylbenzene	4	U
95-49-8	2-Chlorotoluene	4	U
108-67-8	1,3,5-Trimethylbenzene	4	U
106-43-4	4-Chlorotoluene	4	U
98-06-6	tert-Butylbenzene	4	U
95-63-6	1,2,4-Trimethylbenzene	4	U
135-98-8	sec-Butylbenzene	4	U
99-87-6	4-Isopropyltoluene	4	U
541-73-1	1,3-Dichlorobenzene	4	U
106-46-7	1,4-Dichlorobenzene	4	U
104-51-8	n-Butylbenzene	4	U
95-50-1	1,2-Dichlorobenzene	4	U
96-12-8	1,2-Dibromo-3-chloropropane	4	U
120-82-1	1,2,4-Trichlorobenzene	4	U
87-68-3	Hexachlorobutadiene	4	U
91-20-3	Naphthalene	4	U
87-61-6	1,2,3-Trichlorobenzene	4	U
544-10-5	1-Chlorohexane	4	U
107-13-1	Acrylonitrile	4	U

FORM I VOA OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
13SSTB3435

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-29B

Sample wt/vol: 8.2 (g/mL) G Lab File ID: V5E1631

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: not dec. 16 Date Analyzed: 11/16/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

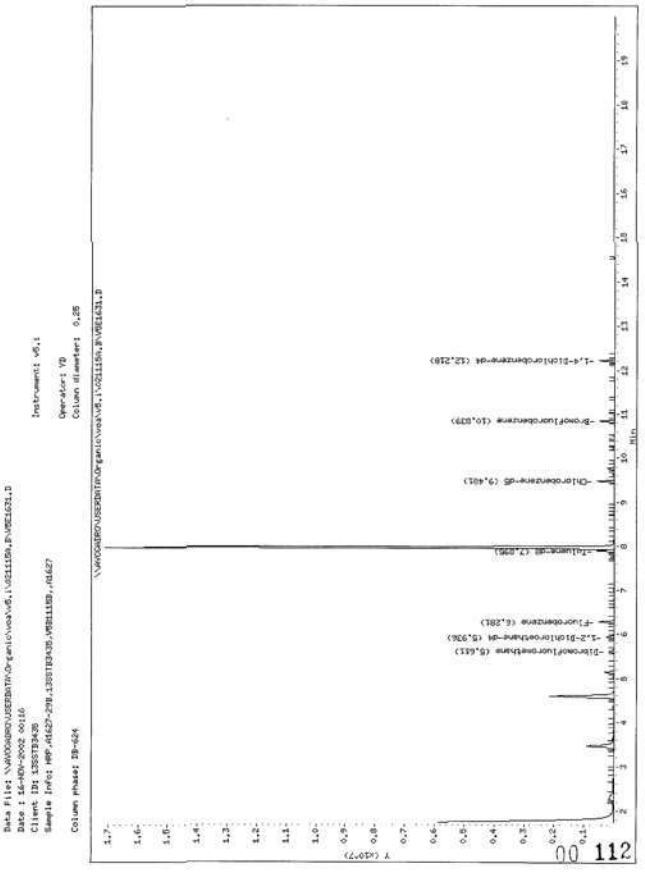
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	2.27	36	J
2.		UNKNOWN	2.48	10	J
3.		UNKNOWN	3.60	8	J
4.	78-84-2	PROPANAL, 2-METHYL-	4.35	6	NJ
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0



Data File: V5E1631.D
Report Date: 04-Dec-2002 12:54

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\V5E1631.D
Lab Smp Id: A1627-29B Client Smp ID: 13SSTB3435
Inj Date : 16-NOV-2002 00:16
Operator : YD Inst ID: v5.i
Smp Info : HRP,A1627-29B,13SSTB3435,V5B1115B,,A1627
Misc Info : 8-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\v58260H.m
Meth Date : 04-Dec-2002 12:53 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 21:04 Cal File: V5E1625.D
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	8.200	Weight of sample (g)
M	16.000	% Moisture (not decanted)

	Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
	5 Chloroethane	64	2.657	2.634	(0.423)	11706	5.63023	4
	8 1,1-Dichloroethene	96	3.455	3.431	(0.550)	118584	47.1204	34(Q)
	9 Acetone	43	3.465	3.441	(0.552)	1631053	868.171	630(A)
	18 1,1-Dichloroethane	63	4.587	4.563	(0.730)	2974458	523.850	380(A)
	22 2-Butanone	43	5.148	5.134	(0.820)	469149	173.142	120(Q)
	23 cis-1,2-Dichloroethene	96	5.148	5.134	(0.820)	22892	7.67665	6
S	30 Dibromofluoromethane	113	5.611	5.597	(0.893)	133273	51.4600	37
S	35 1,2-Dichloroethane-d4	102	5.946	5.932	(0.947)	31719	50.4687	37
*	36 Fluorobenzene	96	6.261	6.247	(1.000)	466962	50.0000	
	39 Trichloroethene	130	6.645	6.641	(1.058)	6259	2.45917	2(A)
	46 4-Methyl-2-pentanone	43	7.758	7.753	(1.235)	111357	20.5834	15
S	47 Toluene-d8	98	7.905	7.901	(0.834)	445778	33.9309	39
	48 Toluene	91	7.974	7.970	(1.270)	14821963	1336.32	970(A)
*	57 Chlorobenzene-d5	117	9.481	9.476	(1.000)	319525	50.0000	
	60 Ethylbenzene	106	9.638	9.634	(1.017)	14649	4.41726	3(a)

Data File: V5E1631.D
Report Date: 04-Dec-2002 12:54

Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
61 m,p-Xylene	106	9.766	9.772	(1.030)	68074	14.4058	12
62 o-Xylene	106	10.229	10.225	(1.079)	26604	6.30127	4
S 68 Bromofluorobenzene	95	10.830	10.835	(1.142)	168632	47.5899	34
* 81 1,4-Dichlorobenzene-d4	152	12.218	12.224	(1.000)	140674	50.0000	
M 63 Xylene (Total)	106				94678	22.7070	16

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

YD 11/16/02

Data File: V5E1631.D
Report Date: 26-Nov-2002 14:32

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\V5E1631.D
Lab Smp Id: A1627-29B Client Smp ID: 13SSTB3435
Inj Date : 16-NOV-2002 00:16
Operator : YD Inst ID: v5.i
Smp Info : HRP,A1627-29B,13SSTB3435,V5B1115B,,A1627
Misc Info : 8-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\v58260H.m
Meth Date : 26-Nov-2002 12:06 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 21:04 Cal File: V5E1625.D
Als bottle: 28
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

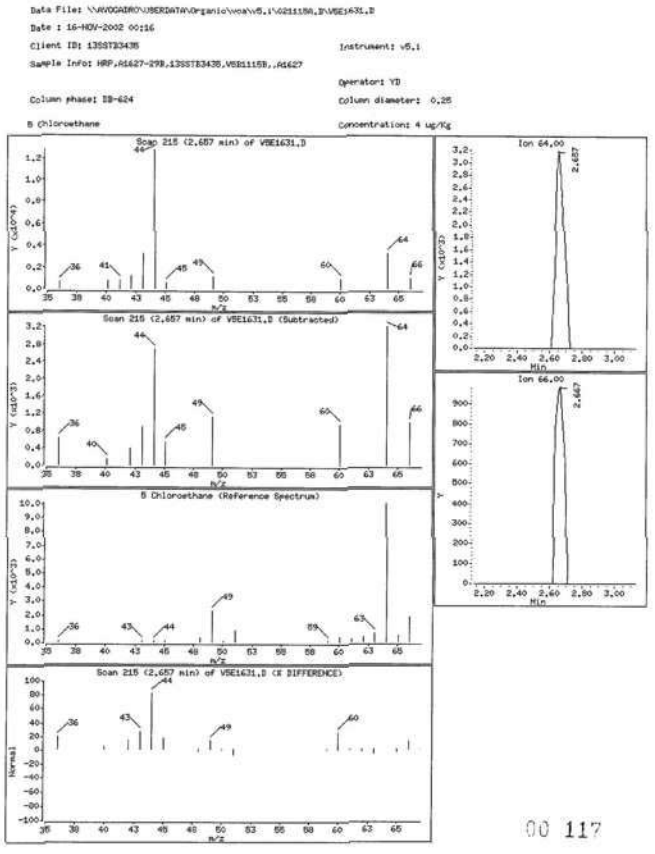
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	8.200	Weight of sample (g)
M	16.000	% Moisture (not decanted)

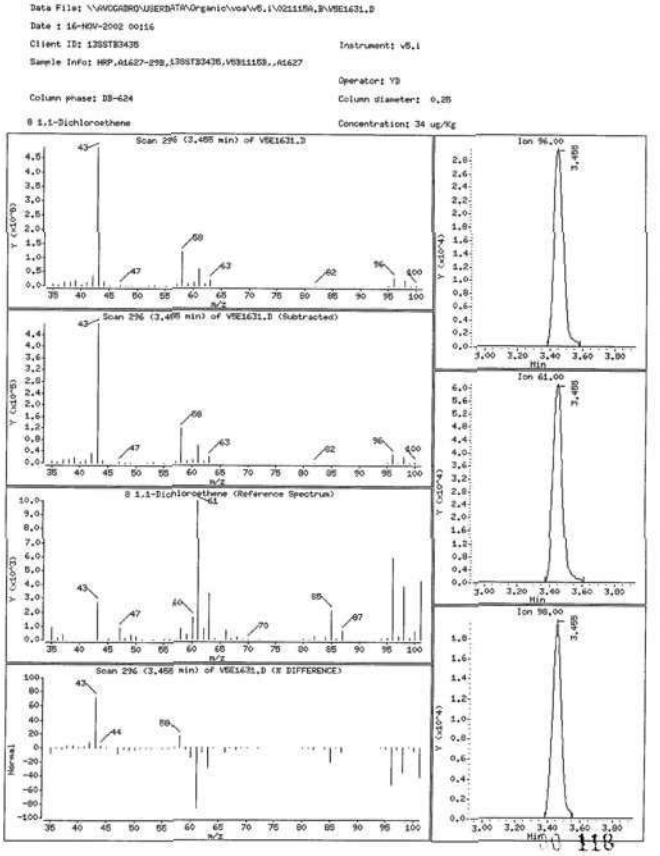
ISTD	RT	AREA	AMOUNT
* 38 Fluorobenzene	6.281	1147201	50.000

	RT	AREA	CONCENTRATIONS ON-COL(ug/L)	CONCENTRATIONS FINAL(ug/Kg)	QUANT QUAL	QUANT LIBRARY	QUANT LIB ENTRY	QUANT CPND #
Unknown					CAS #:			
	2.273	1134870	49.4625615	36	0		0	38
Unknown					CAS #:			
	2.480	321644	14.0186419	10	0		0	38
Unknown					CAS #:			
	3.603	259800	10.4515251	8	0		0	38

Data File: V5E1631.D
Report Date: 26-Nov-2002 14:32

	RT	AREA	CONCENTRATIONS ON-COL(ug/L)	CONCENTRATIONS FINAL(ug/Kg)	QUANT QUAL	QUANT LIBRARY	QUANT LIB ENTRY	QUANT CPND #
Propanal, 2-methyl-					CAS #: 78-84-2			
	4.351	180163	7.85228569	6	90	NBST5K.L	62512	38





Data File: \\AVOGADRO\USERDATA\Organic\voa\v8,1\021115A,B\V8E1631.D

Date : 16-NOV-2002 00:16

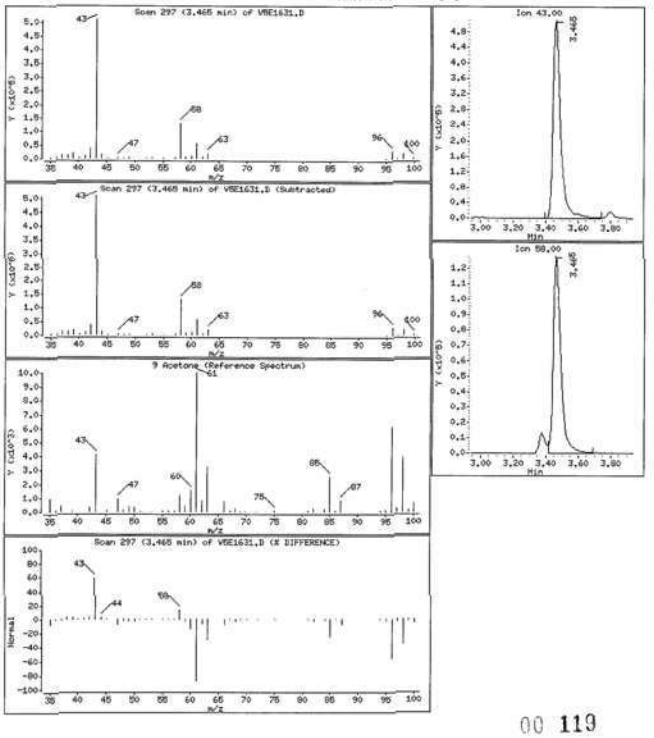
Client ID: 13SSTB3435 Instrument: v8.1

Sample Info: HRP,A1627-29B,13SSTB3435,V8B11158,,A1627

Operator: YD

Column phase: DB-624 Column diameter: 0.25

9 Acetone Concentration: 630 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v8,1\021115A,B\V8E1631.D

Date : 16-NOV-2002 00:16

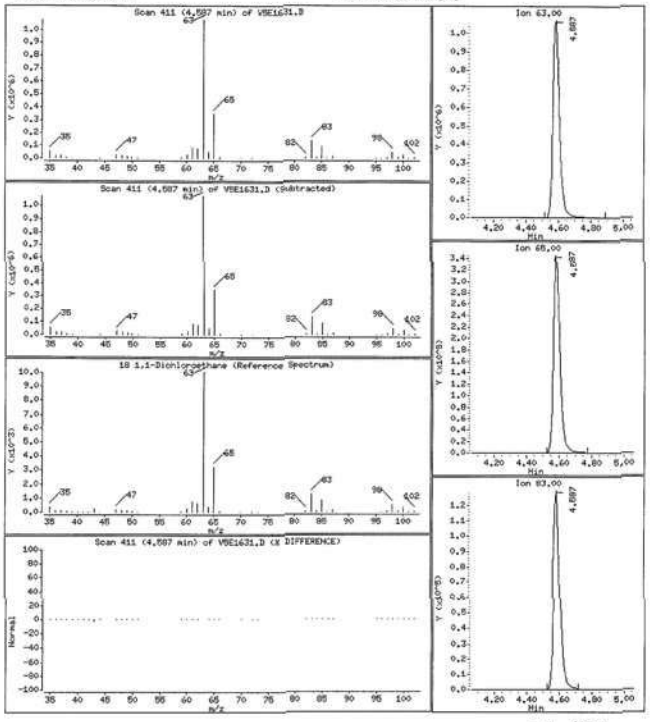
Client ID: 13SSTB3435 Instrument: v8.1

Sample Info: HRP,A1627-29B,13SSTB3435,V8B11158,,A1627

Operator: YD

Column phase: DB-624 Column diameter: 0.25

18 1,1-Dichloroethane Concentration: 380 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v8,1\021115A,B\V8E1631.D

Date : 16-NOV-2002 00:16

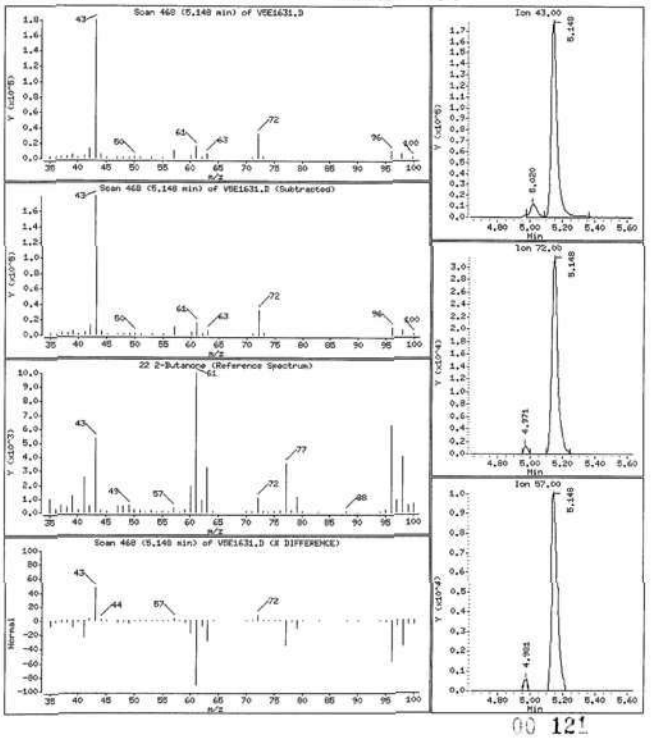
Client ID: 13SSTB3435 Instrument: v8.1

Sample Info: HRP,A1627-29B,13SSTB3435,V8B11158,,A1627

Operator: YD

Column phase: DB-624 Column diameter: 0.25

22 2-Butanone Concentration: 120 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v8,1\021115A,B\V8E1631.D

Date : 16-NOV-2002 00:16

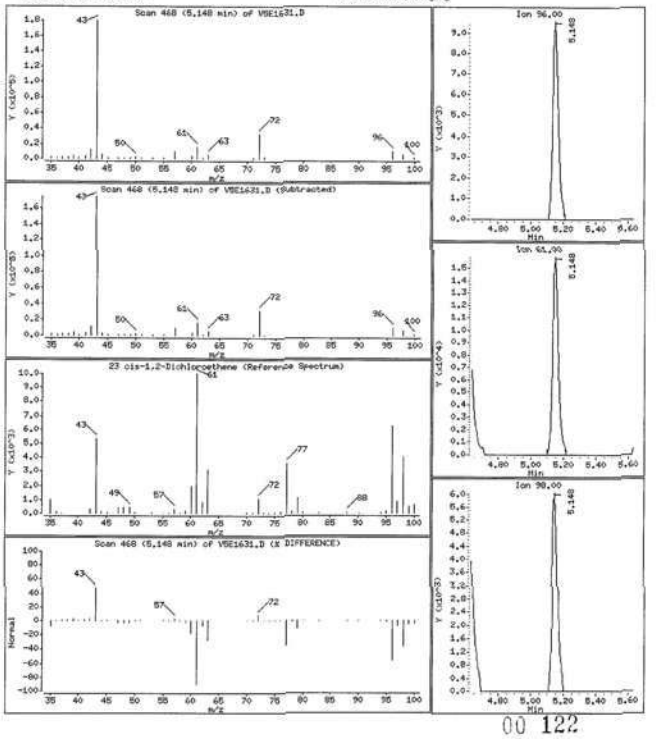
Client ID: 13SSTB3435 Instrument: v8.1

Sample Info: HRP,A1627-29B,13SSTB3435,V8B11158,,A1627

Operator: YD

Column phase: DB-624 Column diameter: 0.25

23 cis-1,2-Dichloroethene Concentration: 6 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.1\021115A,B\V5E1631.D

Date : 16-NOV-2002 00:16

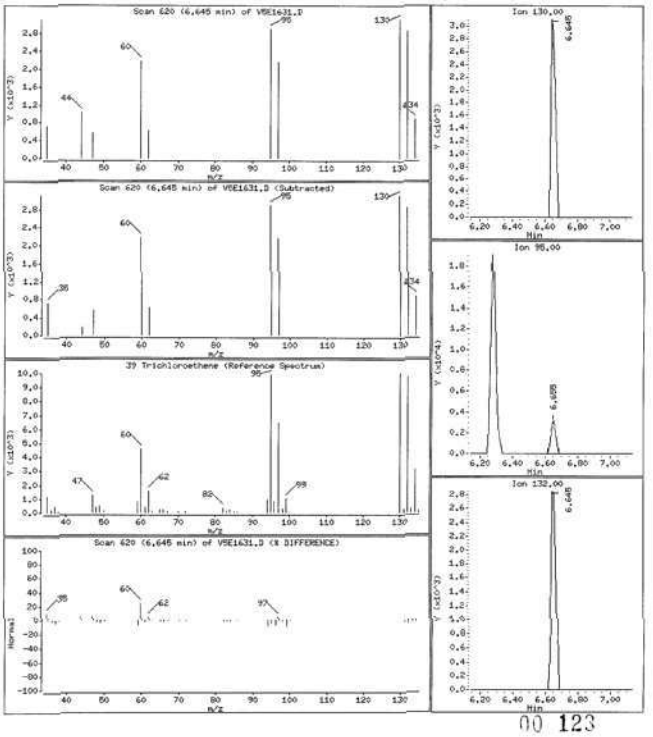
Client ID: 13SST83435 Instrument: v6.1

Sample Info: HRP,A1627-299,13SST83435,V5B1115B,,A1627

Operator: YD

Column phase: DB-624 Column diameter: 0.25

39 Trichloroethene Concentration: 2 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.1\021115A,B\V5E1631.D

Date : 16-NOV-2002 00:16

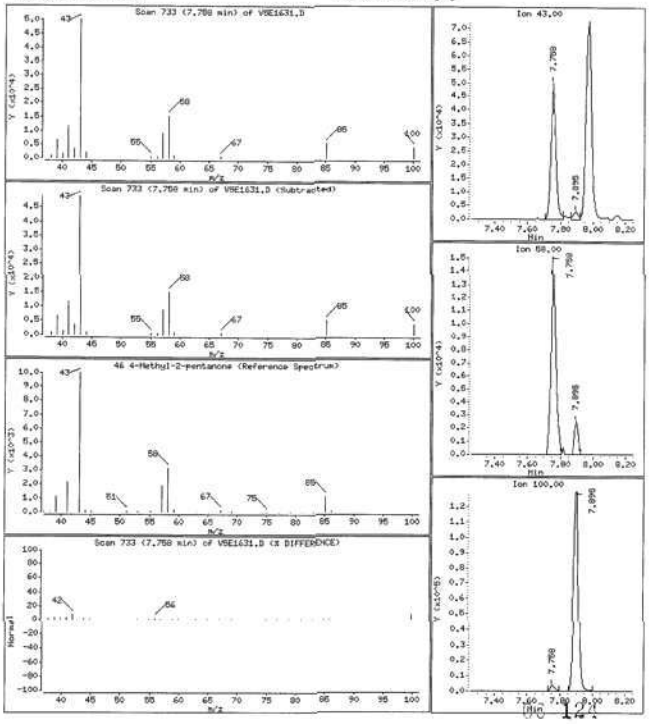
Client ID: 13SST83435 Instrument: v6.1

Sample Info: HRP,A1627-299,13SST83435,V5B1115B,,A1627

Operator: YD

Column phase: DB-624 Column diameter: 0.25

46 4-Methyl-2-pentanone Concentration: 15 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.1\021115A,B\V5E1631.D

Date : 16-NOV-2002 00:16

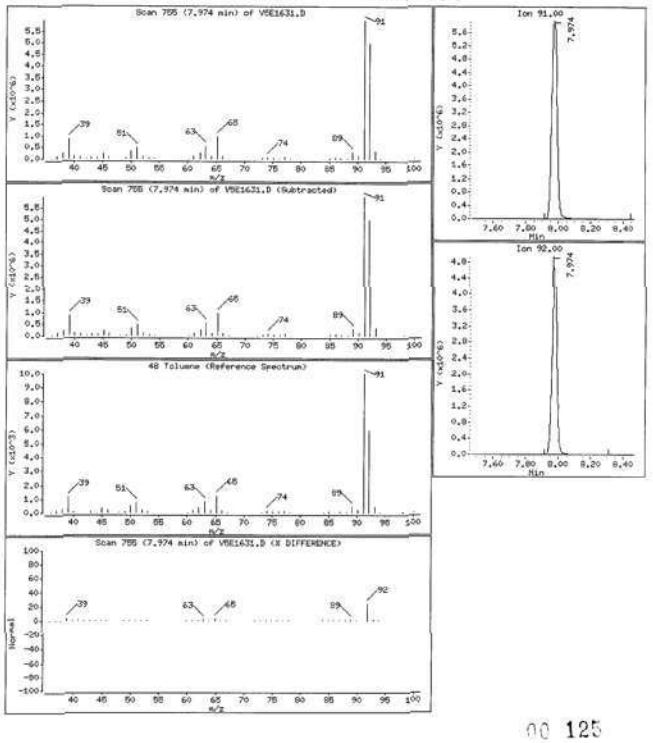
Client ID: 13SST83435 Instrument: v6.1

Sample Info: HRP,A1627-299,13SST83435,V5B1115B,,A1627

Operator: YD

Column phase: DB-624 Column diameter: 0.25

48 Toluene Concentration: 970 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.1\021115A,B\V5E1631.D

Date : 16-NOV-2002 00:16

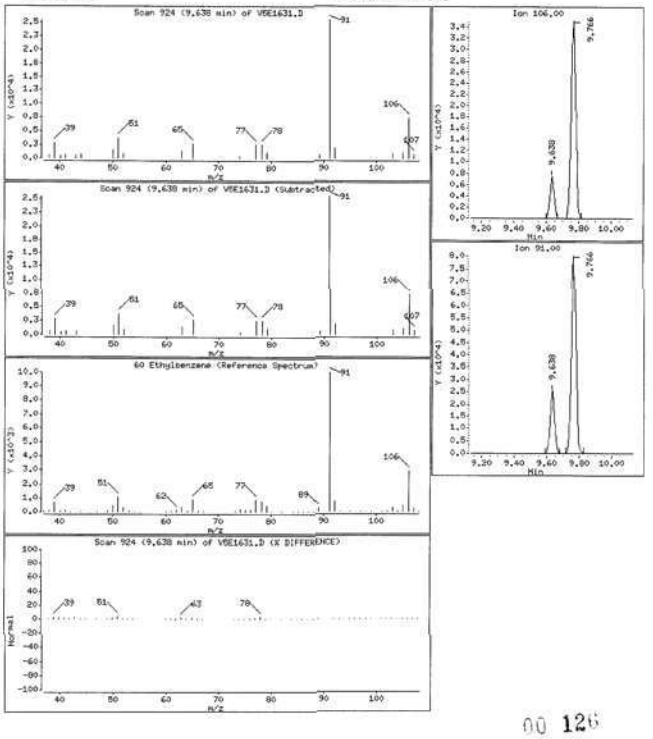
Client ID: 13SST83435 Instrument: v6.1

Sample Info: HRP,A1627-299,13SST83435,V5B1115B,,A1627

Operator: YD

Column phase: DB-624 Column diameter: 0.25

60 Ethylbenzene Concentration: 3 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.1\021115A,B\VSE1631.D

Date : 16-NOV-2002 00:16

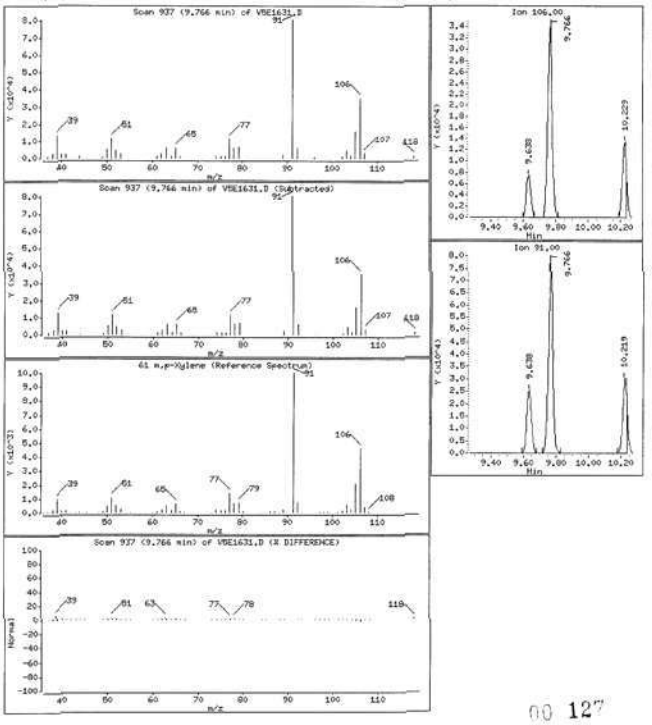
Client ID: 138STB3435 Instrument: v6.1

Sample Info: HRP,A1627-298,138STB3435,VSB1115B,,A1627

Operator: YD

Column phase: DB-624 Column diameter: 0.25

61 m,p-Xylene Concentration: 12 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.1\021115A,B\VSE1631.D

Date : 16-NOV-2002 00:16

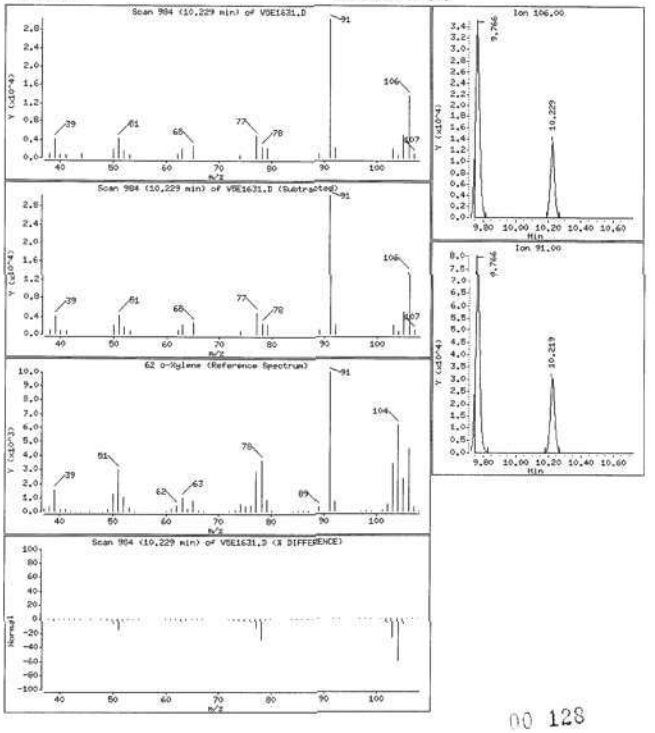
Client ID: 138STB3435 Instrument: v6.1

Sample Info: HRP,A1627-298,138STB3435,VSB1115B,,A1627

Operator: YD

Column phase: DB-624 Column diameter: 0.25

62 o-Xylene Concentration: 4 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.1\021115A,B\VSE1631.D

Date : 16-NOV-2002 00:16

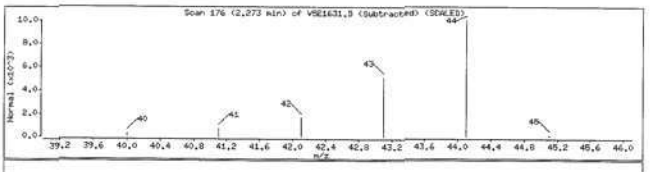
Client ID: 138STB3435 Instrument: v6.1

Sample Info: HRP,A1627-298,138STB3435,VSB1115B,,A1627

Operator: YD

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.1\021115A,B\VSE1631.D

Date : 16-NOV-2002 00:16

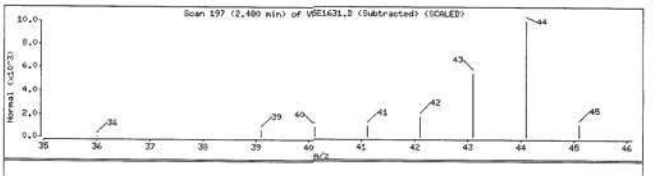
Client ID: 138STB3435 Instrument: v6.1

Sample Info: HRP,A1627-298,138STB3435,VSB1115B,,A1627

Operator: YD

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021115B,B\V5E1631.D

Date : 16-NOV-2002 00:16

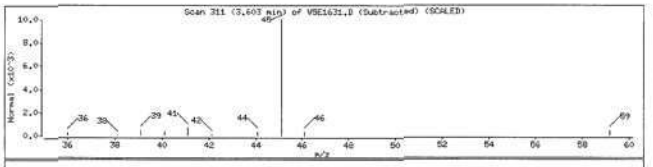
Client ID: 13SSTB3435 Instrument: v6.i

Sample Info: HRP,A1627-29B,13SSTB3435,V5B1115B,,A1627

Operator: YD

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021115A,B\V5E1631.D

Date : 16-NOV-2002 00:16

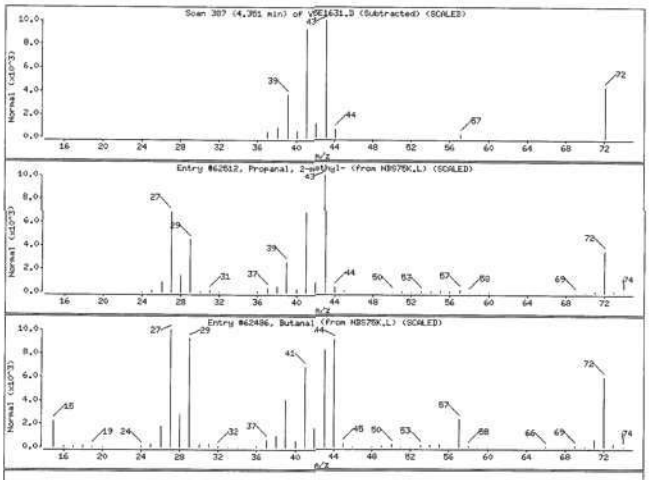
Client ID: 13SSTB3435 Instrument: v6.i

Sample Info: HRP,A1627-29B,13SSTB3435,V5B1115B,,A1627

Operator: YD

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Propanal, 2-methyl-	78-84-2	HB678K.L	62512	90	C4H8O	72
Butanal	123-72-8	HB678K.L	62486	64	C4H8O	72



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 13SSTB3435DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-29A

Sample wt/vol: 10.4 (g/mL) G Lab File ID: V1F1100

Level: (low/med) MED Date Received: 11/08/02

% Moisture: not dec. 16 Date Analyzed: 11/18/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	140	U
74-87-3	Chloromethane	140	U
75-01-4	Vinyl Chloride	140	U
74-83-9	Bromomethane	140	U
75-00-3	Chloroethane	140	U
75-69-4	Trichlorofluoromethane	140	U
75-35-4	1,1-Dichloroethene	140	U
67-64-1	Acetone	130	DJ
75-09-2	Methylene Chloride	44	DJ
107-13-1	Acrylonitrile	140	U
156-60-5	trans-1,2-Dichloroethene	140	U
1634-04-4	Methyl tert-butyl ether	140	U
75-34-3	1,1-Dichloroethane	170	D
78-93-3	2-Butanone	140	U
156-59-2	cis-1,2-Dichloroethene	140	U
590-20-7	2,2-Dichloropropane	140	U
74-97-5	Bromochloromethane	140	U
67-66-3	Chloroform	140	U
109-99-9	Tetrahydrofuran	140	U
71-55-6	1,1,1-Trichloroethane	140	U
563-58-6	1,1-Dichloropropene	140	U
56-23-5	Carbon Tetrachloride	140	U
107-06-2	1,2-Dichloroethane	140	U
71-43-2	Benzene	140	U
79-01-6	Trichloroethene	140	U
78-87-5	1,2-Dichloropropane	140	U
74-95-3	Dibromomethane	140	U
75-27-4	Bromodichloromethane	140	U
10061-01-5	cis-1,3-Dichloropropene	140	U
108-10-1	4-Methyl-2-pentanone	140	U
108-88-3	Toluene	1300	D
10061-02-6	trans-1,3-Dichloropropene	140	U
79-00-5	1,1,2-Trichloroethane	140	U
142-28-9	1,3-Dichloropropane	140	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 13SSTB3435DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-29A

Sample wt/vol: 10.4 (g/mL) G Lab File ID: V1F1100

Level: (low/med) MED Date Received: 11/08/02

% Moisture: not dec. 16 Date Analyzed: 11/18/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	140	U
591-78-6	2-Hexanone	140	U
124-48-1	Dibromochloromethane	140	U
106-93-4	1,2-Dibromoethane	140	U
108-90-7	Chlorobenzene	140	U
630-20-6	1,1,1,2-Tetrachloroethane	140	U
100-41-4	Ethylbenzene	140	U
	m,p-Xylene	36	DJ
95-47-6	o-Xylene	140	U
1330-20-7	Xylene (Total)	36	DJ
100-42-5	Styrene	140	U
75-25-2	Bromoform	140	U
98-82-8	Isopropylbenzene	140	U
79-34-5	1,1,2,2-Tetrachloroethane	140	U
108-86-1	Bromobenzene	140	U
96-18-4	1,2,3-Trichloropropane	140	U
103-65-1	n-Propylbenzene	140	U
95-49-8	2-Chlorotoluene	140	U
108-67-8	1,3,5-Trimethylbenzene	140	U
106-43-4	4-Chlorotoluene	140	U
98-06-6	tert-Butylbenzene	140	U
95-63-6	1,2,4-Trimethylbenzene	140	U
135-98-8	sec-Butylbenzene	140	U
99-87-6	4-Isopropyltoluene	140	U
541-73-1	1,3-Dichlorobenzene	140	U
106-46-7	1,4-Dichlorobenzene	140	U
104-51-8	n-Butylbenzene	140	U
95-50-1	1,2-Dichlorobenzene	140	U
96-12-8	1,2-Dibromo-3-chloropropane	140	U
120-82-1	1,2,4-Trichlorobenzene	140	U
87-68-3	Hexachlorobutadiene	140	U
91-20-3	Naphthalene	58	DJ
87-61-6	1,2,3-Trichlorobenzene	140	U
544-10-5	1-Chlorohexane	140	U

FORM I VOA OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
13SSTB3435DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-29A

Sample wt/vol: 10.4 (g/mL) G Lab File ID: V1F1100

Level: (low/med) MED Date Received: 11/08/02

% Moisture: not dec. 16 Date Analyzed: 11/18/02

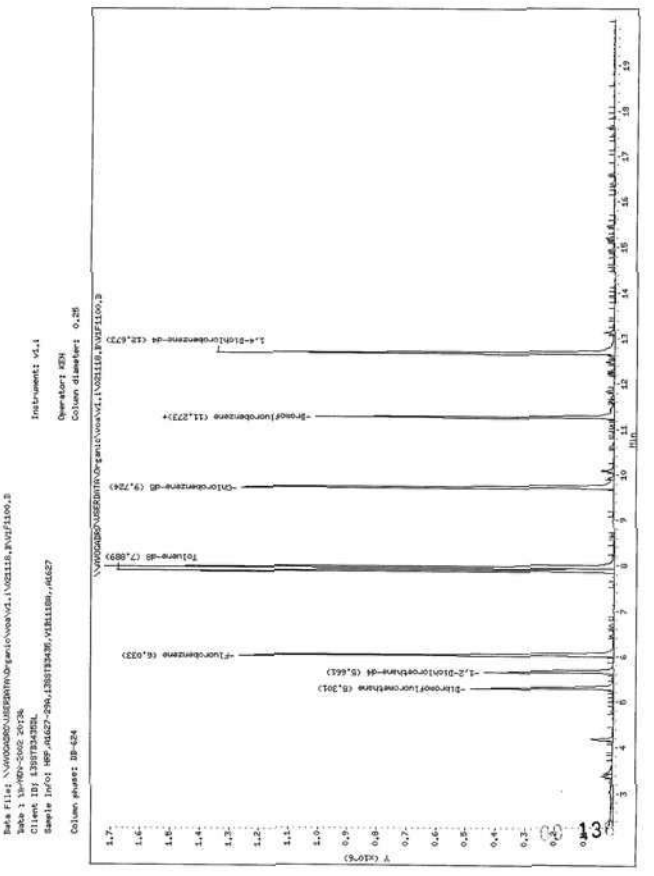
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\V1F1100.D
Report Date: 26-Nov-2002 14:33

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\V1F1100.D
Lab Smp Id: A1627-29A Client Smp ID: 13SSTB3435DL
Inj Date : 18-NOV-2002 20:36
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1627-29A,13SSTB3435,V1B1118A,,A1627
Misc Info : 08-NOV-02,,,,2,1
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\v18260.m
Meth Date : 26-Nov-2002 12:19 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 14:27 Cal File: V1F1047.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf*(Vt*5000)/(Va*Ws*((100-M)/100)))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	10.420	Weight of sample (g)
M	16.000	% Moisture (not decanted)
Vt	5.000	Methanol extract volume (mL)
Va	100.000	Aliquot of methanol (uL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
	9 Acetone	43	3.052	3.049	(0.506)	9575	4.51424	130(a)
	14 Methylene Chloride	84	3.466	3.484	(0.574)	14162	1.54819	44(a)
	18 1,1-Dichloroethane	63	4.176	4.195	(0.692)	99225	6.11859	170
$	30 Dibromofluoromethane	113	5.301	5.319	(0.879)	388180	49.0358	1400
$	35 1,2-Dichloroethane-d4	102	5.662	5.680	(0.938)	89543	47.5827	1400
*	38 Fluorobenzene	96	6.033	6.062	(1.000)	1551496	50.0000	
$	47 Toluene-d8	98	7.889	7.908	(0.810)	1426222	49.3003	1400
	48 Toluene	91	7.974	7.992	(1.222)	1598275	45.5897	1300
*	57 Chlorobenzene-d5	117	9.735	9.753	(1.000)	1035355	50.0000	
	61 m,p-Xylene	106	10.065	10.103	(1.034)	19890	1.27745	36(a)
$	68 Bromofluorobenzene	95	11.273	11.291	(1.158)	509790	48.3746	1400
*	81 1,4-Dichlorobenzene-d4	152	12.673	12.692	(1.000)	464685	50.0000	
M	63 Xylene (Total)	106				19890	1.27745	36(a)

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\V1F1100.D
Report Date: 26-Nov-2002 14:33

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
89 Naphthalene	128	15.198	15.206	(1.199)	37742	2.03678	58(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

KD
11/26/02

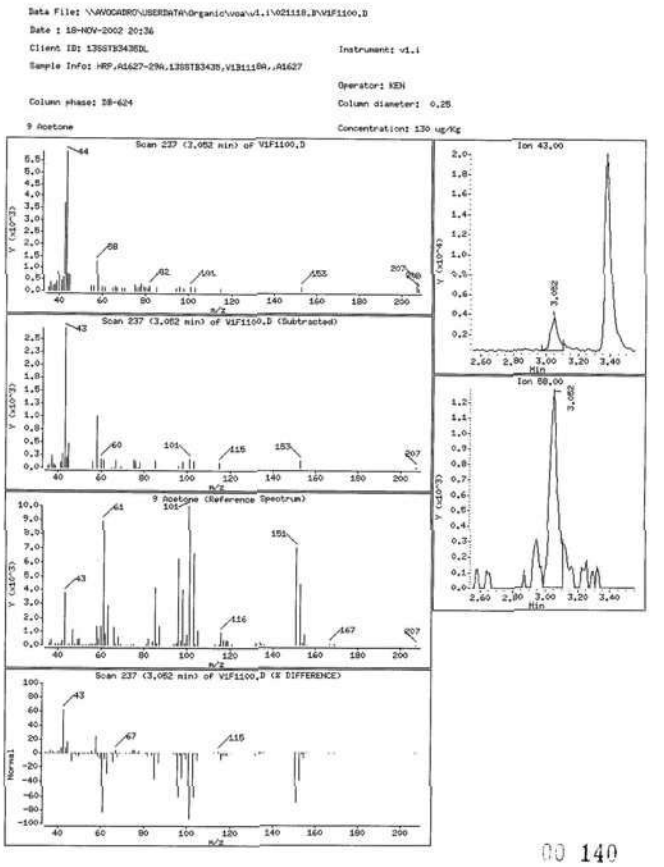
Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\V1F1100.D
Report Date: 26-Nov-2002 14:33

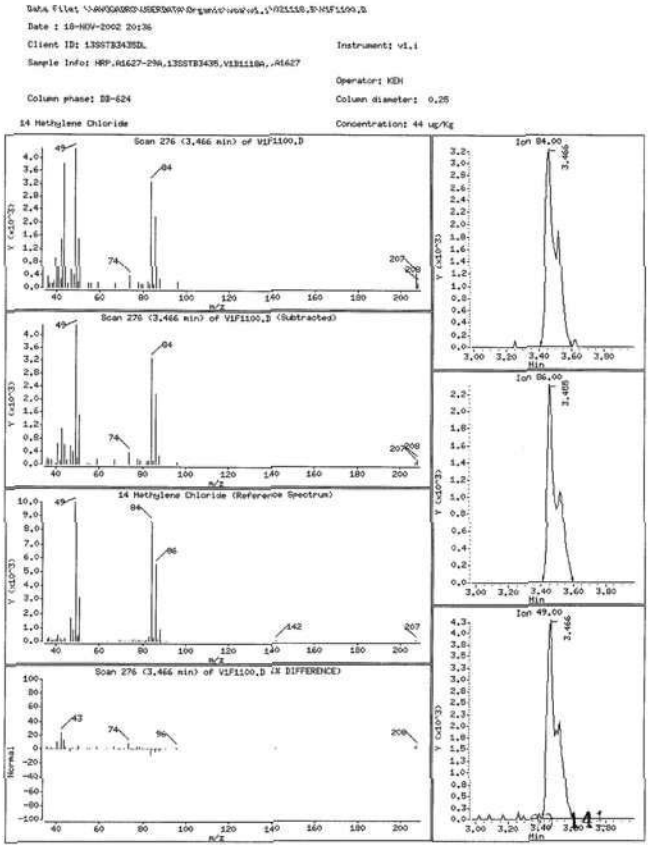
Mitkem Corporation

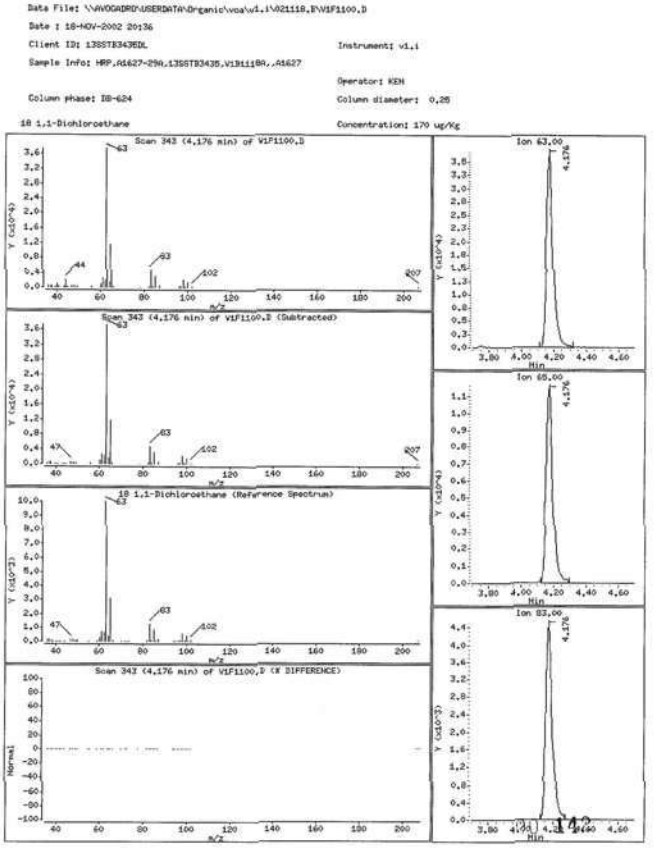
Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\V1F1100.D
Lab Smp Id: A1627-29A Client Smp ID: 13SSTB3435DL
Inj Date : 18-NOV-2002 20:36
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1627-29A,13SSTB3435,V1B1118A,,A1627
Misc Info : 08-NOV-02,,,,2,1
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\v18260.m
Meth Date : 26-Nov-2002 12:19 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 14:27 Cal File: V1F1047.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

- NO TENTATIVELY IDENTIFIED COMPOUNDS -







Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\V1F1100.D

Date : 18-NOV-2002 20:36

Client ID: 135STB3435DL

Instrument: v1.i

Sample Info: HRP,A1627-29A,135STB3435,V1B1118A,,A1627

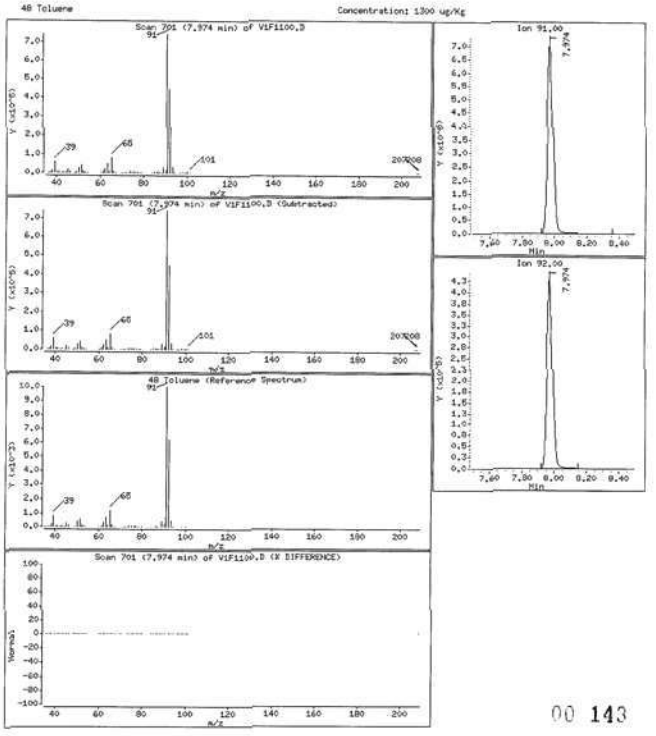
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

48 Toluene

Concentration: 1300 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\V1F1100.D

Date : 18-NOV-2002 20:36

Client ID: 135STB3435DL

Instrument: v1.i

Sample Info: HRP,A1627-29A,135STB3435,V1B1118A,,A1627

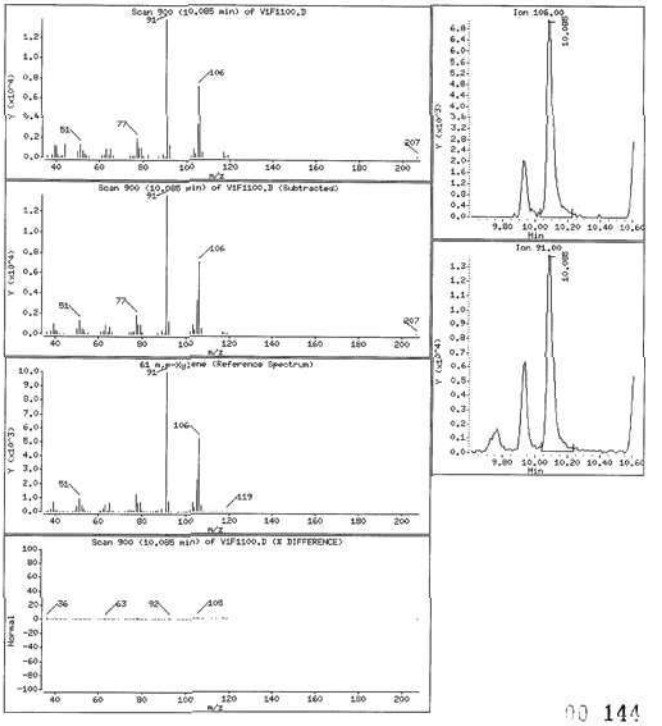
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

61 m,p-Xylene

Concentration: 36 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\V1F1100.D

Date : 18-NOV-2002 20:36

Client ID: 135STB3435DL

Instrument: v1.i

Sample Info: HRP,A1627-29A,135STB3435,V1B1118A,,A1627

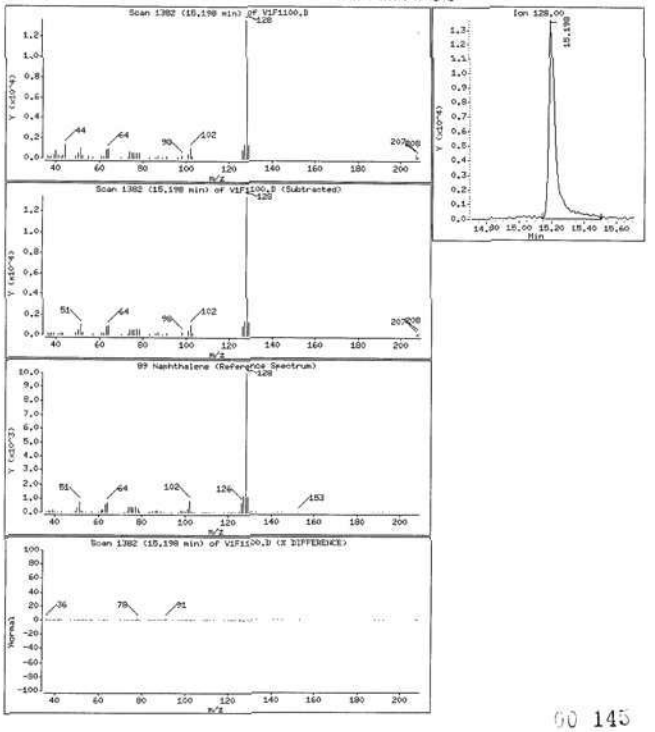
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

89 Naphthalene

Concentration: 50 ug/Kg



1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC112E1

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: A1627-07A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3698

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: not dec. _____ Date Analyzed: 11/14/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	3	J
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC112E1

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-07A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3698
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. _____ Date Analyzed: 11/14/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

00 147

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC112E1

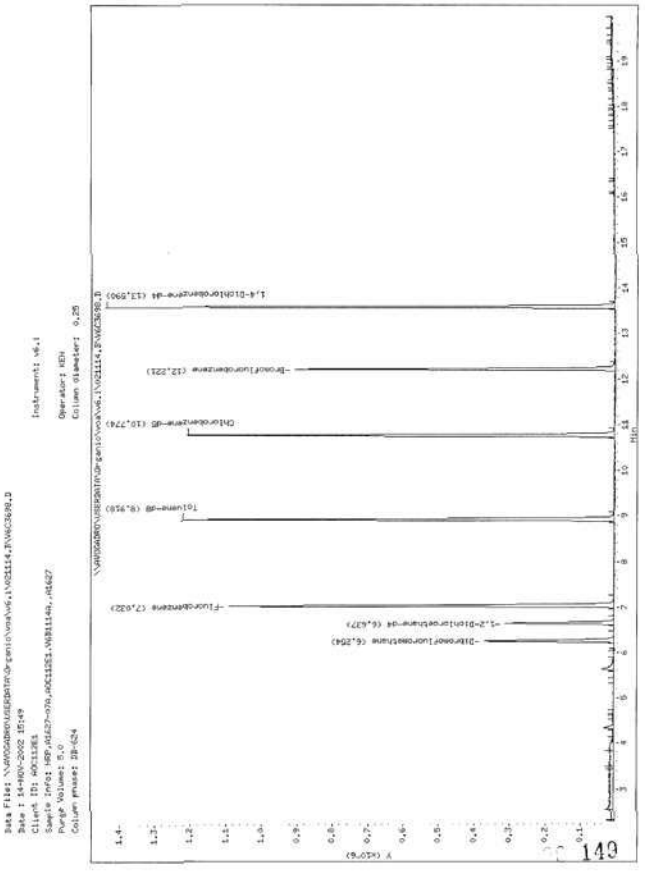
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-07A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3698
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. _____ Date Analyzed: 11/14/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

00 148



149

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3698.D
Report Date: 26-Nov-2002 14:31

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3698.D
Lab Smp Id: A1627-07A Client Smp ID: AOC112E1
Inj Date : 14-NOV-2002 15:49
Operator : KEN Inst ID: v6.i
Smp Info : HRP,A1627-07A,AOC112E1,V6B1114A,,A1627
Misc Info : 08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\v68260.m
Meth Date : 26-Nov-2002 12:24 mtl Quant Type: ISTD
Cal Date : 17-OCT-2002 18:24 Cal File: V6C3426.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT RIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
14 Methylene Chloride	84	4.331	4.336	(0.819)	21977	3.74688	3(a)
S 30 Dibromofluoromethane	113	6.260	6.258	(0.890)	338234	46.8197	47
S 35 1,2-Dichloroethane-d4	102	6.649	6.641	(0.946)	74221	44.9701	45
* 38 Fluorobenzene	96	7.632	7.637	(1.000)	1493051	50.0000	
S 47 Toluene-d8	98	8.918	8.923	(0.828)	1706360	53.9002	54
* 57 Chlorobenzene-d5	117	10.769	10.772	(1.000)	1150578	50.0000	
S 68 Bromoflurobenzene	95	12.221	12.226	(1.135)	433875	47.1926	47
* 81 1,4-Dichlorobenzene-d4	152	13.590	13.583	(1.000)	596452	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

00 150

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3698.D
Report Date: 26-Nov-2002 14:31

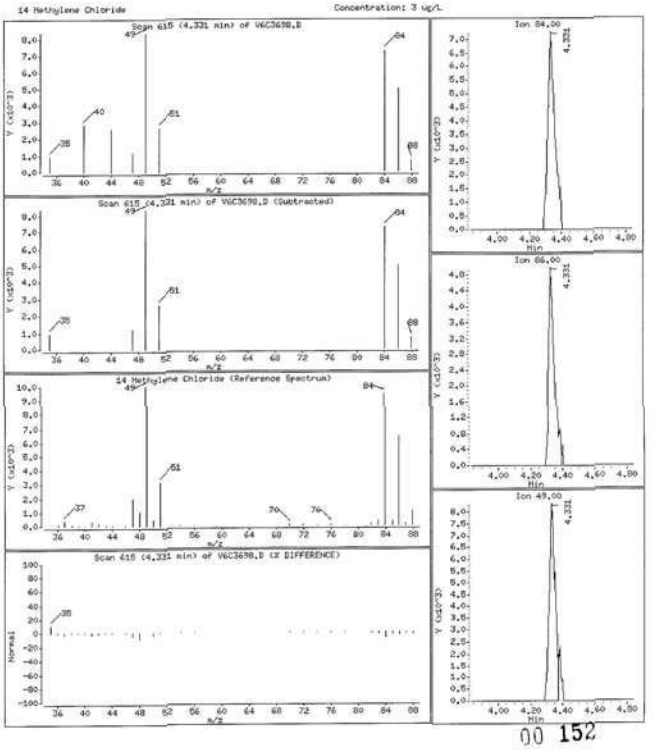
Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3698.D
Lab Smp Id: A1627-07A Client Smp ID: AOC112E1
Inj Date : 14-NOV-2002 15:49
Operator : KEN Inst ID: v6.i
Smp Info : HRP,A1627-07A,AOC112E1,V6B1114A,,A1627
Misc Info : 08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\v68260.m
Meth Date : 26-Nov-2002 12:24 mtl Quant Type: ISTD
Cal Date : 17-OCT-2002 18:24 Cal File: V6C3426.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3698.D
Date : 14-NOV-2002 15:49
Client ID: AOC112E1 Instrument: v6.i
Sample Info: HRP,A1627-07A,AOC112E1,V6B1114A,,A1627
Purge Volume: 5.0 Operator: KEN
Column phase: DB-624 Column diameter: 0.25
14 Methylene Chloride Concentration: 3 ug/L



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC112T1

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-06A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3697
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. _____ Date Analyzed: 11/14/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC112T1

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-06A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3697
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. _____ Date Analyzed: 11/14/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AOC112T1

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: A1627-06A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3697

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: not dec. _____ Date Analyzed: 11/14/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

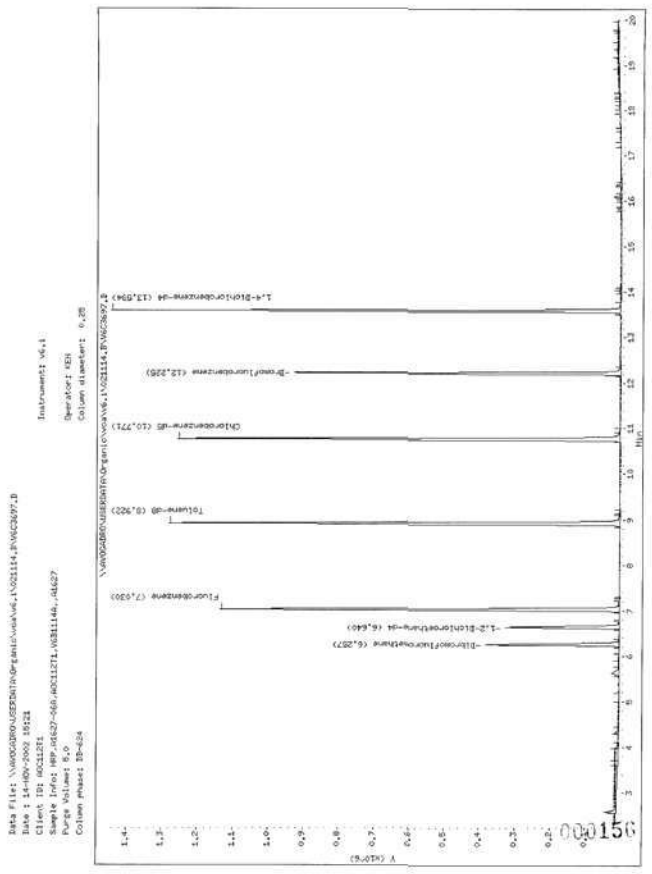
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

000155



000156

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3697.D
Report Date: 26-Nov-2002 14:31

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3697.D
Lab Smp Id: A1627-06A Client Smp ID: AOC112T1
Inj Date : 14-NOV-2002 15:21
Operator : KEN Inst ID: v6.i
Smp Info : HRP,A1627-06A,AOC112T1,V6B1114A,,A1627
Misc Info : 08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\v68260.m
Meth Date : 26-Nov-2002 12:24 mtl Quant Type: ISTD
Cal Date : 17-OCT-2002 18:24 Cal File: V6C3426.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
3 30 Dibromofluoromethane	113	6.257	6.258	(0.890)	321455	46.4293	46
4 35 1,2-Dichloroethane-d4	102	6.440	6.441	(0.945)	73782	43.6144	44
* 38 Fluorobenzene	96	7.030	7.037	(1.000)	1530396	50.0000	
5 47 Toluene-d8	98	8.922	8.923	(0.828)	1360385	54.8970	55
* 57 Chlorobenzene-d5	117	10.771	10.772	(1.000)	1376673	50.0000	
6 68 Bromofluorobenzene	95	12.225	12.226	(1.135)	465435	47.5761	48
* 81 1,4-Dichlorobenzene-d4	152	13.594	13.589	(1.000)	603472	50.0000	

Vo 11/26/02

000157

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3697.D
Report Date: 26-Nov-2002 14:31

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3697.D
Lab Smp Id: A1627-06A Client Smp ID: AOC112T1
Inj Date : 14-NOV-2002 15:21
Operator : KEN Inst ID: v6.i
Smp Info : HRP,A1627-06A,AOC112T1,V6B1114A,,A1627
Misc Info : 08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\v68260.m
Meth Date : 26-Nov-2002 12:24 mtl Quant Type: ISTD
Cal Date : 17-OCT-2002 18:24 Cal File: V6C3426.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

000158

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC13E2

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-25A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3700
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. _____ Date Analyzed: 11/14/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	1	J
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC13E2

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-25A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3700
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. _____ Date Analyzed: 11/14/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
----------	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

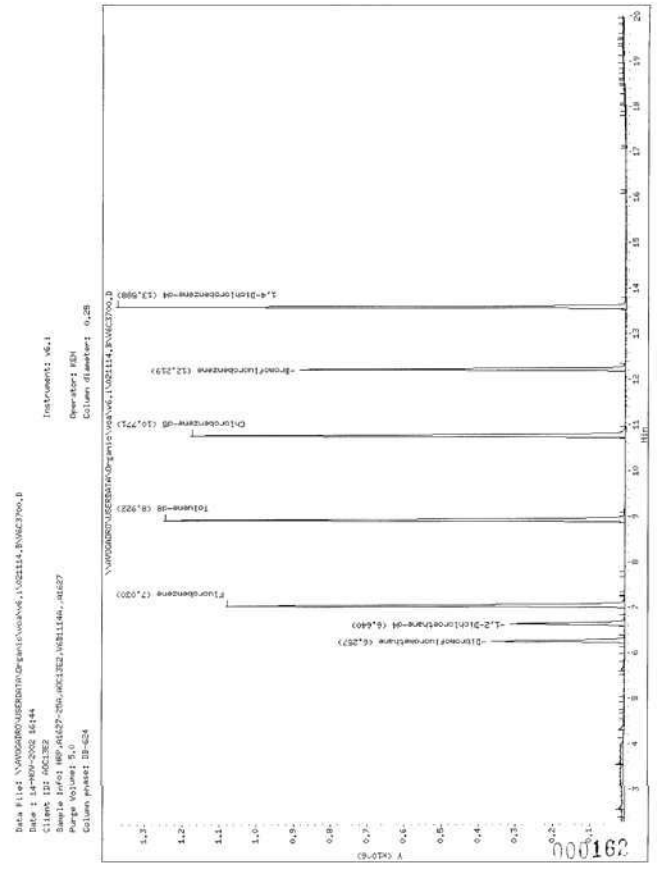
1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC13E2

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-25A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3700
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. _____ Date Analyzed: 11/14/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3700.D
Report Date: 26-Nov-2002 14:31

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3700.D
Lab Smp Id: A1627-25A Client Smp ID: AOC13E2
Inj Date : 14-NOV-2002 16:44
Operator : KEN Inst ID: v6.i
Smp Info : HRP,A1627-25A,AOC13E2,V6B1114A,,A1627
Misc Info : 08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\v68260.m
Meth Date : 26-Nov-2002 12:24 mtl Quant Type: ISTD
Cal Date : 17-OCT-2002 18:24 Cal File: V6C3426.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS: ON-COLUMN (ug/L)	FINAL (ug/L)
	14 Methylene Chloride	84	4.329	4.336	(0.824)	10629	1.37284	1(ug)
$	30 Dibromofluoromethane	113	6.257	6.258	(0.890)	308445	46.8954	47
$	35 1,2-Dichloroethane-d4	102	6.641	6.641	(0.945)	72687	45.5104	46
*	38 Fluorobenzene	96	7.030	7.037	(1.000)	1444875	50.0000	
$	47 Toluene-d8	98	8.322	8.323	(0.828)	1277195	53.6017	54
*	57 Chlorobenzene-d5	117	10.771	10.772	(1.000)	1131592	50.0000	
$	68 Bromofluorobenzene	95	12.219	12.226	(1.134)	416142	46.2183	46
*	81 1,4-Dichlorobenzene-d4	152	11.594	11.589	(1.000)	576424	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

11/26/02

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3700.D
Report Date: 26-Nov-2002 14:31

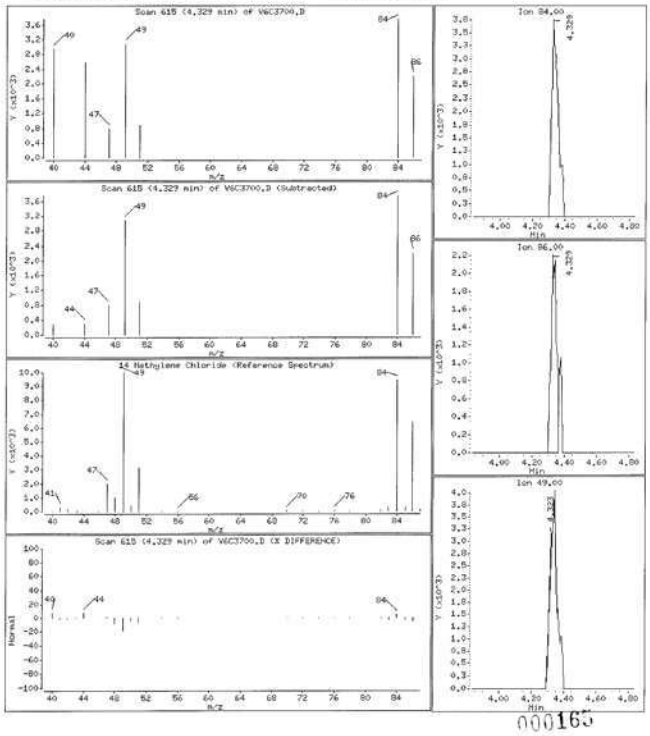
Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3700.D
Lab Smp Id: A1627-25A Client Smp ID: AOC13E2
Inj Date : 14-NOV-2002 16:44
Operator : KEN Inst ID: v6.i
Smp Info : HRP,A1627-25A,AOC13E2,V6B1114A,,A1627
Misc Info : 08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\v68260.m
Meth Date : 26-Nov-2002 12:24 mtl Quant Type: ISTD
Cal Date : 17-OCT-2002 18:24 Cal File: V6C3426.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3700.D
Data : 14-NOV-2002 16:44
Client ID: AOC13E2 Instrument: v6.i
Sample Info: HRP,A1627-25A,AOC13E2,V6B1114A,,A1627
Purge Volume: 5.0 Operator: KEN
Column phase: DB-624 Column diameter: 0.25
14 Methylene Chloride Concentration: 1 ug/L



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2E3

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-13A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3699
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. _____ Date Analyzed: 11/14/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	2	J
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2E3

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-13A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3699
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. _____ Date Analyzed: 11/14/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000167

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC2E3

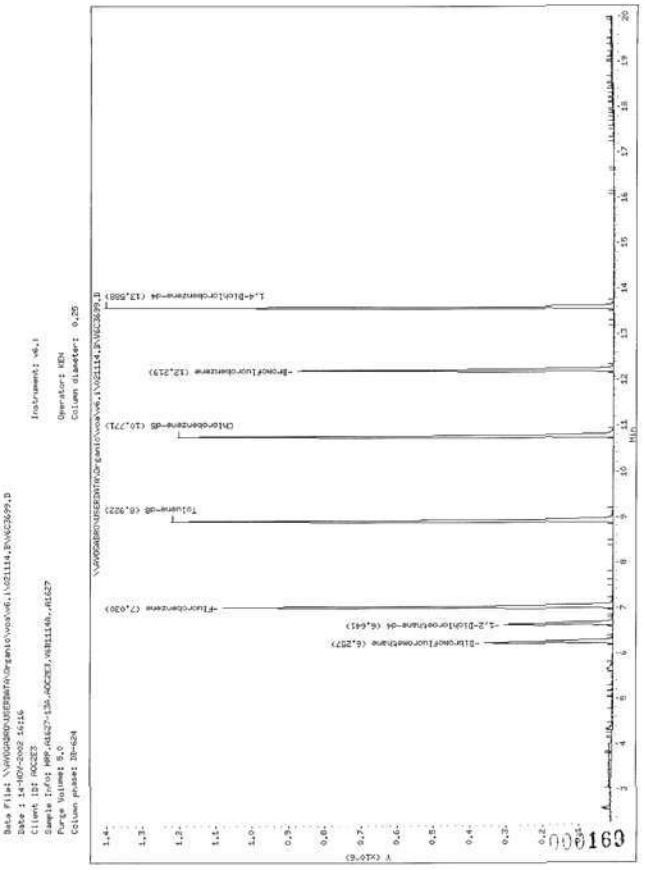
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-13A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3699
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. _____ Date Analyzed: 11/14/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0

000168



000169

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3699.D
Report Date: 26-Nov-2002 14:31

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3699.D
Lab Smp Id: A1627-13A Client Smp ID: AOC2E3
Inj Date : 14-NOV-2002 16:16
Operator : KEN Inst ID: v6.i
Smp Info : HRP,A1627-13A,AOC2E3,V6B1114A,,A1627
Misc Info : 08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\v68260.m
Meth Date : 26-Nov-2002 12:24 mtl Quant Type: ISTD
Cal Date : 17-OCT-2002 18:24 Cal File: V6C3426.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
	14 Methylene Chloride	84	4.329	4.336	(0.616)	13870	1.78095		a
S	10 Dibromofluoromethane	113	6.258	6.258	(0.890)	304915	46.0871	46	
S	55 1,2-Dichloroethane-d4	102	6.641	6.641	(0.945)	72905	45.3795	45	
*	16 Fluorobenzene	96	7.030	7.017	(1.000)	1453588	50.0000		
S	47 Toluene-d8	98	8.922	8.923	(0.828)	1285576	54.3108	54	
*	17 Chlorobenzene-d5	117	10.771	10.772	(1.000)	1123970	50.0000		
S	69 Bromofluorobenzene	95	12.219	12.226	(1.134)	419648	46.9237	47	
*	81 1,4-Dichlorobenzene-d4	152	13.588	13.589	(1.000)	577142	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

000170

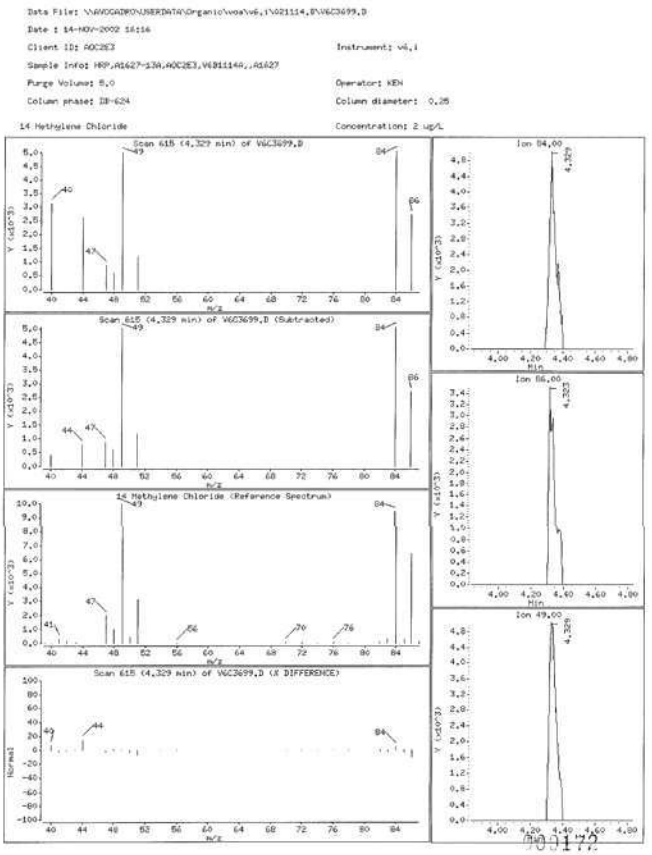
Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3699.D
Report Date: 26-Nov-2002 14:31

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3699.D
Lab Smp Id: A1627-13A Client Smp ID: AOC2E3
Inj Date : 14-NOV-2002 16:16
Operator : KEN Inst ID: v6.i
Smp Info : HRP,A1627-13A,AOC2E3,V6B1114A,,A1627
Misc Info : 08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\v68260.m
Meth Date : 26-Nov-2002 12:24 mtl Quant Type: ISTD
Cal Date : 17-OCT-2002 18:24 Cal File: V6C3426.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

- NO TENTATIVELY IDENTIFIED COMPOUNDS -



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2E4

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-51A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3703
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. _____ Date Analyzed: 11/14/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	2	J
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2E4

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-51A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3703
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: not dec. _____ Date Analyzed: 11/14/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
----------	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC2E4

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: A1627-51A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3703

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: not dec. _____ Date Analyzed: 11/14/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

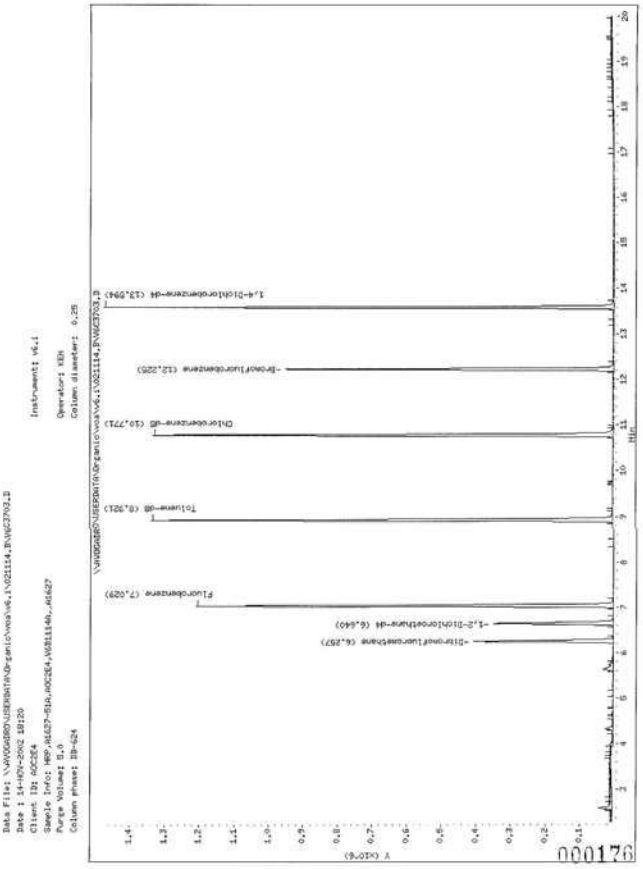
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

000175



000176

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3703.D
Report Date: 26-Nov-2002 14:31

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3703.D
Lab Smp Id: A1627-51A Client Smp ID: AOC2E4
Inj Date : 14-NOV-2002 18:20
Operator : KEN Inst ID: v6.i
Smp Info : HRP,A1627-51A,AOC2E4,V6B1114A,,A1627
Misc Info : 08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\v68260.m
Meth Date : 26-Nov-2002 12:24 mtl Quant Type: ISTD
Cal Date : 17-OCT-2002 18:24 Cal File: V6C3426.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT STG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
14 Methylene Chloride	84	4.328	4.336	(0.616)	16549	1.89497		2(a)
$ 30 Dibromofluoromethane	113	6.257	6.258	(0.890)	345391	46.5549		46
$ 35 1,2-Dichloroethane-d4	102	6.648	6.641	(0.945)	81094	45.0138		45
* 38 Fluorobenzene	96	7.029	7.037	(1.000)	1629775	50.0000		
$ 47 Toluene-d8	98	8.922	8.923	(0.826)	1403176	54.5365		54
* 57 Chlorobenzene-d5	117	10.771	10.772	(1.000)	1258477	50.0000		
$ 68 Bromofluorobenzene	95	12.219	12.226	(1.134)	451769	45.8448		46
* 81 1,4-Dichlorobenzene-d4	152	13.594	13.589	(1.000)	626688	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

VP 11/26/02

000177

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3703.D
Report Date: 26-Nov-2002 14:31

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3703.D
Lab Smp Id: A1627-51A Client Smp ID: AOC2E4
Inj Date : 14-NOV-2002 18:20
Operator : KEN Inst ID: v6.i
Smp Info : HRP,A1627-51A,AOC2E4,V6B1114A,,A1627
Misc Info : 08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\v68260.m
Meth Date : 26-Nov-2002 12:24 mtl Quant Type: ISTD
Cal Date : 17-OCT-2002 18:24 Cal File: V6C3426.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

000178

Data File: \\NVOGADRO\USERDATA\Organic\voa\v6.1\021114,B\V6C3703.D

Date : 14-NOV-2002 10:20

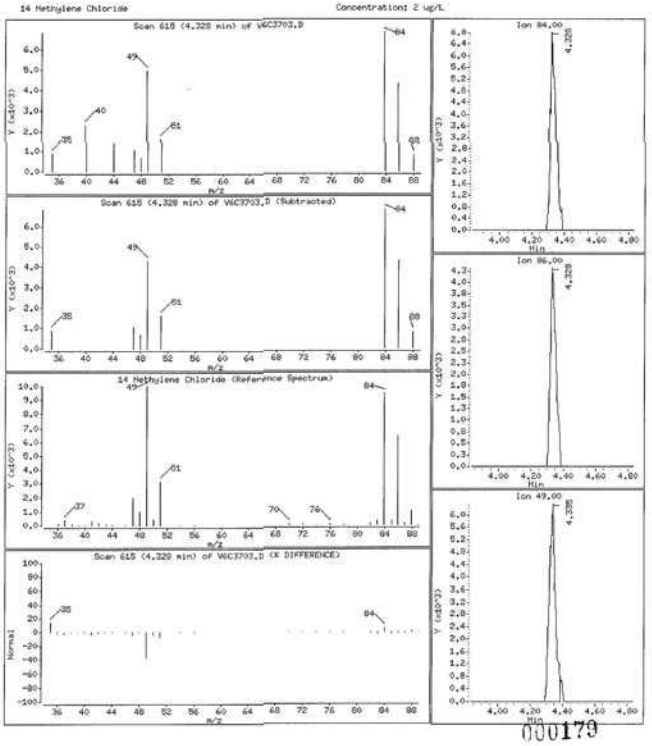
Client ID: AOC2E4 Instrument: v6.1

Sample Info: HRP,A1627-81A,AOC2E4,V6B1114A,,A1627

Purge Volume: 5.0 Operator: KEN

Column phase: DB-624 Column diameter: 0.25

14 Methylene Chloride Concentration: 2 ug/L



6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: V1 Calibration Date(s): 11/15/02 11/15/02

Heated Purge: (Y/N) N Calibration Time(s): 1132 1511

GC Column: DB-624 ID: 0.25 (mm)

LAB FILE ID: RRF5 =V1F1042 RRF20 =V1F1047
RRF50 =V1F1046 RRF100=V1F1045 RRF200=V1F1044

COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
Dichlorodifluoromethane	0.313	0.255	0.257	0.258	0.262	0.269	9.2
Chloromethane *	0.425	0.389	0.372	0.388	0.359	0.387	6.4*
Vinyl Chloride	0.391	0.339	0.306	0.315	0.293	0.329	11.7
Bromomethane	0.049	0.104	0.039	0.047	0.051	0.058	45.0
Chloroethane	0.112	0.045	0.110	0.110	0.131	0.102	32.2
Trichlorofluoromethane	0.167	0.124	0.129	0.148	0.168	0.147	13.9
1,1-Dichloroethene	0.288	0.249	0.231	0.180	0.166	0.223	22.5
Acetone	0.109	0.066	0.057	0.056	0.048	0.067	35.8
Methylene Chloride	0.354	0.295	0.273	0.284	0.274	0.296	11.4
Acrylonitrile *	0.068	0.040	0.042	0.043	0.041	0.047	25.6*
trans-1,2-Dichloroethene	0.339	0.294	0.280	0.297	0.295	0.301	7.4
Methyl tert-butyl ether	0.437	0.451	0.440	0.432	0.387	0.429	5.7
1,1-Dichloroethane *	0.580	0.526	0.488	0.512	0.507	0.523	6.6*
2-Butanone	0.115	0.103	0.106	0.108	0.098	0.106	5.9
cis-1,2-Dichloroethene	0.324	0.298	0.284	0.300	0.300	0.301	4.9
2,2-Dichloropropane	0.255	0.209	0.206	0.204	0.194	0.214	11.1
Bromochloromethane	0.156	0.139	0.135	0.143	0.141	0.143	5.4
Chloroform	0.529	0.464	0.436	0.450	0.453	0.466	7.8
Tetrahydrofuran *	0.034	0.029	0.030	0.032	0.030	0.031	6.0*
1,1,1-Trichloroethane	0.364	0.320	0.295	0.307	0.304	0.318	8.6
1,1-Dichloropropene	0.133	0.132	0.128	0.136	0.139	0.134	3.2
Carbon Tetrachloride	0.337	0.288	0.277	0.290	0.293	0.297	7.8
1,2-Dichloroethane	0.371	0.322	0.298	0.304	0.292	0.317	10.1
Benzene	1.255	1.167	1.101	1.154	1.144	1.164	4.8
Trichloroethene	0.271	0.248	0.240	0.255	0.263	0.255	4.7
1,2-Dichloropropane	0.323	0.302	0.283	0.298	0.292	0.300	5.0
Dibromomethane	0.186	0.167	0.162	0.172	0.170	0.171	5.3
Bromodichloromethane	0.361	0.334	0.321	0.339	0.339	0.339	4.2
cis-1,3-Dichloropropene	0.435	0.435	0.432	0.452	0.458	0.442	2.7
4-Methyl-2-pentanone	0.177	0.192	0.207	0.218	0.207	0.200	8.0
Toluene	1.172	1.098	1.079	1.147	1.153	1.130	3.5
trans-1,3-Dichloropropene	0.363	0.358	0.362	0.381	0.389	0.371	3.7
1,1,2-Trichloroethane	0.254	0.222	0.219	0.232	0.232	0.232	5.9
1,3-Dichloropropane	0.642	0.598	0.586	0.612	0.589	0.605	3.7
Tetrachloroethene	0.357	0.306	0.290	0.317	0.322	0.318	7.7
2-Hexanone	0.159	0.182	0.215	0.228	0.211	0.199	13.9
Dibromochloromethane	0.386	0.357	0.356	0.382	0.384	0.373	4.0

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: V1 Calibration Date(s): 11/15/02 11/15/02

Heated Purge: (Y/N) N Calibration Time(s): 1132 1511

GC Column: DB-624 ID: 0.25 (mm)

LAB FILE ID: RRF5 =V1F1042 RRF20 =V1F1047
RRF50 =V1F1046 RRF100=V1F1045 RRF200=V1F1044

COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
1,2-Dibromoethane	0.382	0.362	0.357	0.382	0.378	0.372	3.1
Chlorobenzene *	1.287	1.116	1.072	1.137	1.149	1.152	7.0*
1,1,1,2-Tetrachloroethane	0.388	0.347	0.327	0.346	0.347	0.351	6.4
Ethylbenzene	0.621	0.590	0.562	0.609	0.601	0.597	3.7
m,p-Xylene	0.774	0.747	0.719	0.770	0.750	0.752	2.9
o-Xylene	0.715	0.707	0.689	0.734	0.720	0.713	2.3
Xylene (Total)	0.755	0.733	0.709	0.758	0.740	0.739	2.7
Styrene	0.854	1.018	1.092	1.225	1.218	1.081	14.2
Bromoform *	0.215	0.201	0.210	0.231	0.233	0.218	6.3*
Isopropylbenzene	1.672	1.648	1.605	1.742	1.706	1.675	3.1
1,1,2,2-Tetrachloroethane *	1.110	1.002	0.951	0.985	0.922	0.994	7.2*
Bromobenzene	0.865	0.861	0.812	0.867	0.890	0.859	3.4
1,2,3-Trichloropropane	0.927	0.995	1.020	1.072	1.017	1.006	5.2
n-Propylbenzene	0.983	0.950	0.866	0.936	0.922	0.931	4.6
2-Chlorotoluene	0.934	0.859	0.798	0.846	0.850	0.857	5.7
1,3,5-Trimethylbenzene	3.272	3.040	2.790	2.952	2.777	2.966	6.9
4-Chlorotoluene	0.964	0.904	0.838	0.891	0.879	0.895	5.1
tert-Butylbenzene	2.902	2.728	2.562	2.765	2.694	2.730	4.5
1,2,4-Trimethylbenzene	3.249	3.085	2.864	3.022	2.917	3.027	5.0
sec-Butylbenzene	4.067	3.750	3.389	3.695	3.516	3.683	7.0
4-Isopropyltoluene	3.161	2.792	2.617	2.866	2.707	2.829	7.4
1,3-Dichlorobenzene	1.679	1.530	1.458	1.567	1.568	1.560	5.1
1,4-Dichlorobenzene	1.971	1.720	1.576	1.671	1.665	1.721	8.7
n-Butylbenzene	2.892	2.609	2.445	2.676	2.403	2.605	7.5
1,2-Dichlorobenzene	1.704	1.504	1.410	1.521	1.495	1.527	7.1
1,2-Dibromo-3-chloropropane	0.142	0.128	0.125	0.133	0.121	0.130	6.4
1,2,4-Trichlorobenzene	0.864	0.756	0.736	0.815	0.788	0.792	6.4
Hexachlorobutadiene	0.355	0.251	0.220	0.246	0.212	0.257	22.5
Naphthalene	2.024	1.922	1.939	2.090	1.993	1.994	3.4
1,2,3-Trichlorobenzene	0.836	0.692	0.660	0.716	0.678	0.716	9.8
1-Chlorohexane	0.649	0.540	0.530	0.556	0.540	0.563	8.7
Dibromofluoromethane	0.287	0.245	0.235	0.254	0.254	0.255	7.7
1,2-Dichloroethane-d4	0.069	0.058	0.055	0.061	0.060	0.061	8.4
Toluene-d8	1.436	1.356	1.321	1.447	1.426	1.397	4.0
Bromofluorobenzene	0.537	0.488	0.490	0.524	0.504	0.509	4.2

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: V5 Calibration Date(s): 11/15/02 11/15/02

Heated Purge: (Y/N) Y Calibration Time(s): 1906 2104

GC Column: DB-624 ID: 0.25 (mm)

LAB FILE ID: RRF5 =V5E1625 RRF20 =V5E1624
RRF50 =V5E1623 RRF100=V5E1622 RRF200=V5E1621

COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
Dichlorodifluoromethane	0.214	0.299	0.311	0.306	0.323	0.291	15.1
Chloromethane *	0.421	0.550	0.590	0.597	0.609	0.553	14.0*
Vinyl Chloride	0.290	0.421	0.446	0.446	0.461	0.413	17.0
Bromomethane	0.208	0.287	0.294	0.264	0.267	0.264	12.8
Chloroethane	0.166	0.237	0.251	0.235	0.224	0.223	14.9
Trichlorofluoromethane	0.172	0.280	0.308	0.323	0.323	0.281	22.5
1,1-Dichloroethene	0.207	0.269	0.291	0.289	0.291	0.269	13.3
Acetone	0.270	0.201	0.199	0.178	0.157	0.201	21.1
Methylene Chloride	0.367	0.387	0.410	0.395	0.381	0.388	4.1
trans-1,2-Dichloroethene	0.226	0.290	0.301	0.298	0.289	0.281	11.0
Methyl tert-butyl ether	0.787	0.994	1.034	1.014	0.988	0.963	10.4
1,1-Dichloroethane *	0.519	0.616	0.645	0.643	0.616	0.608	8.5*
2-Butanone	0.239	0.294	0.318	0.314	0.286	0.290	10.9
cis-1,2-Dichloroethene	0.283	0.323	0.341	0.331	0.319	0.319	6.9
2,2-Dichloropropane	0.190	0.247	0.248	0.241	0.219	0.229	10.8
Bromochloromethane	0.157	0.177	0.179	0.176	0.169	0.172	5.4
Chloroform	0.509	0.572	0.585	0.576	0.550	0.558	5.5
Tetrahydrofuran *	0.055	0.063	0.061	0.062	0.058	0.060	5.4*
1,1,1-Trichloroethane	0.279	0.347	0.357	0.352	0.338	0.335	9.6
1,1-Dichloropropene	0.098	0.123	0.126	0.128	0.123	0.120	10.4
Carbon Tetrachloride	0.238	0.291	0.305	0.308	0.296	0.288	9.8
1,2-Dichloroethane	0.459	0.492	0.508	0.487	0.460	0.481	4.5
Benzene	1.139	1.300	1.344	1.326	1.284	1.279	6.4
Trichloroethene	0.235	0.279	0.288	0.282	0.278	0.272	7.9
1,2-Dichloropropane	0.356	0.393	0.398	0.387	0.372	0.381	4.5
Dibromomethane	0.234	0.249	0.255	0.246	0.236	0.244	3.6
Bromodichloromethane	0.434	0.467	0.478	0.463	0.445	0.457	3.9
cis-1,3-Dichloropropene	0.568	0.624	0.626	0.615	0.599	0.606	4.0
4-Methyl-2-pentanone	0.505	0.571	0.611	0.618	0.590	0.579	7.8
Toluene	1.101	1.208	1.235	1.214	1.181	1.188	4.4
trans-1,3-Dichloropropene	0.551	0.585	0.586	0.563	0.550	0.567	3.1
1,1,2-Trichloroethane	0.311	0.312	0.315	0.306	0.291	0.307	3.2
1,3-Dichloropropane	0.811	0.865	0.862	0.820	0.760	0.824	5.2
Tetrachloroethene	0.259	0.300	0.308	0.309	0.291	0.293	7.0
2-Hexanone	0.497	0.593	0.643	0.644	0.589	0.593	10.1
Dibromochloromethane	0.468	0.499	0.497	0.486	0.456	0.481	3.9
1,2-Dibromoethane	0.449	0.480	0.482	0.462	0.437	0.462	4.2

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: V5 Calibration Date(s): 11/15/02 11/15/02

Heated Purge: (Y/N) Y Calibration Time(s): 1906 2104

GC Column: DB-624 ID: 0.25 (mm)

LAB FILE ID: RRF5 =V5E1625 RRF20 =V5E1624
RRF50 =V5E1623 RRF100=V5E1622 RRF200=V5E1621

COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
Chlorobenzene *	1.011	1.082	1.084	1.030	0.979	1.037	4.4*
1,1,1,2-Tetrachloroethane	0.382	0.413	0.408	0.396	0.380	0.396	3.7
Ethylbenzene	0.474	0.541	0.534	0.533	0.512	0.519	5.2
m,p-Xylene	0.596	0.673	0.674	0.662	0.641	0.649	5.0
o-Xylene	0.623	0.680	0.675	0.673	0.652	0.661	3.6
Xylene (Total)	0.605	0.675	0.675	0.666	0.645	0.653	4.5
Styrene	1.113	1.213	1.226	1.199	1.161	1.182	3.9
Bromoform *	0.320	0.349	0.362	0.350	0.336	0.343	4.7*
Isopropylbenzene	1.389	1.618	1.583	1.601	1.576	1.553	6.0
1,1,2,2-Tetrachloroethane *	1.717	1.695	1.688	1.598	1.510	1.642	5.3*
Bromobenzene	1.009	1.038	1.006	0.994	0.992	1.008	1.8
1,2,3-Trichloropropane	1.870	1.906	1.946	1.922	1.823	1.893	2.5
n-Propylbenzene	0.827	0.890	0.860	0.882	0.892	0.870	3.2
2-Chlorotoluene	0.835	0.894	0.839	0.853	0.853	0.855	2.7
1,3,5-Trimethylbenzene	2.572	2.874	2.756	2.814	2.775	2.758	4.1
4-Chlorotoluene	0.829	0.906	0.866	0.857	0.850	0.862	3.3
tert-Butylbenzene	2.704	3.098	2.982	3.084	3.044	2.982	5.4
1,2,4-Trimethylbenzene	2.640	2.940	2.914	2.919	2.772	2.837	4.5
sec-Butylbenzene	3.198	3.764	3.586	3.689	3.582	3.564	6.1
4-Isopropyltoluene	2.370	2.810	2.709	2.752	2.587	2.646	6.6
1,3-Dichlorobenzene	1.664	1.783	1.757	1.737	1.636	1.715	3.7
1,4-Dichlorobenzene	1.732	1.842	1.797	1.751	1.665	1.757	3.8
n-Butylbenzene	2.427	3.023	2.999	3.024	2.899	2.874	8.9
1,2-Dichlorobenzene	1.624	1.705	1.713	1.682	1.586	1.662	3.3
1,2-Dibromo-3-chloropropane	0.226	0.249	0.274	0.249	0.217	0.243	9.1
1,2,4-Trichlorobenzene	0.630	0.716	0.763	0.806	0.771	0.737	9.2
Hexachlorobutadiene	0.309	0.409	0.409	0.419	0.416	0.392	12.0
Naphthalene	2.277	2.299	2.502	2.521	2.279	2.376	5.2
1,2,3-Trichlorobenzene	0.605	0.642	0.678	0.709	0.689	0.665	6.2
1-Chlorohexane	0.447	0.544	0.547	0.550	0.542	0.526	8.4
Acrylonitrile	0.075	0.086	0.101	0.096	0.082	0.088	12.0
Dibromofluoromethane	0.236	0.273	0.305	0.289	0.284	0.277	9.4
1,2-Dichloroethane-d4	0.058	0.063	0.074	0.072	0.069	0.067	9.7
Toluene-d8	1.146	1.274	1.424	1.353	1.271	1.294	8.1
Bromofluorobenzene	0.501	0.544	0.585	0.576	0.566	0.554	6.0

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: V6 Calibration Date(s): 10/17/02 10/17/02

Heated Purge: (Y/N) N Calibration Time(s): 1604 1824

GC Column: DB-624 ID: 0.25 (mm)

LAB FILE ID: RRF5 =V6C3422 RRF20 =V6C3426
RRF50 =V6C3421 RRF100=V6C3425 RRF200=V6C3424

COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
Dichlorodifluoromethane	0.189	0.167	0.160	0.183	0.188	0.177	7.5
Chloromethane *	0.325	0.256	0.278	0.278	0.277	0.283	8.9*
Vinyl Chloride	0.313	0.259	0.260	0.286	0.281	0.280	7.9
Bromomethane	0.221	0.162	0.219	0.204	0.210	0.203	11.9
Chloroethane	0.209	0.163	0.175	0.183	0.178	0.182	9.2
Trichlorofluoromethane	0.399	0.304	0.295	0.344	0.332	0.335	12.3
1,1-Dichloroethene	0.324	0.289	0.258	0.296	0.288	0.291	8.1
Acetone	0.094	0.033	0.045	0.030	0.031	0.047	57.8
Methylene Chloride	0.315	0.258	0.254	0.259	0.253	0.268	9.9
Acrylonitrile *	0.056	0.046	0.058	0.050	0.050	0.052	9.4*
trans-1,2-Dichloroethene	0.298	0.268	0.239	0.287	0.281	0.275	8.3
Methyl tert-butyl ether	0.687	0.515	0.620	0.573	0.552	0.589	11.3
1,1-Dichloroethane *	0.463	0.420	0.394	0.434	0.415	0.425	6.0*
2-Butanone	0.073	0.049	0.065	0.050	0.050	0.057	18.9
cis-1,2-Dichloroethene	0.313	0.282	0.277	0.302	0.288	0.292	5.1
2,2-Dichloropropane	0.309	0.271	0.208	0.266	0.248	0.260	14.2
Bromochloromethane	0.157	0.140	0.153	0.148	0.148	0.149	4.4
Chloroform	0.486	0.434	0.422	0.440	0.417	0.440	6.3
Tetrahydrofuran *	0.010	0.014	0.021	0.018	0.018	0.016	27.7*
1,1,1-Trichloroethane	0.398	0.366	0.289	0.368	0.346	0.353	11.5
1,1-Dichloropropene	0.141	0.134	0.111	0.143	0.142	0.134	9.8
Carbon Tetrachloride	0.348	0.331	0.283	0.352	0.344	0.332	8.5
1,2-Dichloroethane	0.328	0.291	0.314	0.293	0.283	0.302	6.1
Benzene	1.112	1.024	0.969	1.035	0.935	1.015	6.7
Trichloroethene	0.346	0.313	0.276	0.326	0.314	0.315	8.1
1,2-Dichloropropane	0.270	0.240	0.247	0.254	0.246	0.251	4.5
Dibromomethane	0.154	0.134	0.145	0.140	0.141	0.143	5.0
Bromodichloromethane	0.356	0.322	0.337	0.334	0.328	0.335	3.9
cis-1,3-Dichloropropene	0.459	0.401	0.425	0.424	0.411	0.424	5.2
4-Methyl-2-pentanone	0.144	0.101	0.135	0.114	0.115	0.122	14.2
Toluene	1.238	1.142	1.070	1.105	0.946	1.100	9.7
trans-1,3-Dichloropropene	0.366	0.334	0.372	0.362	0.356	0.358	4.1
1,1,2-Trichloroethane	0.229	0.197	0.212	0.204	0.206	0.210	5.7
1,3-Dichloropropane	0.469	0.409	0.423	0.428	0.411	0.428	5.7
Tetrachloroethene	0.366	0.336	0.265	0.342	0.332	0.328	11.4
2-Hexanone	0.107	0.078	0.104	0.091	0.093	0.095	12.2
Dibromochloromethane	0.338	0.298	0.317	0.324	0.323	0.320	4.6

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: V6 Calibration Date(s): 10/17/02 10/17/02

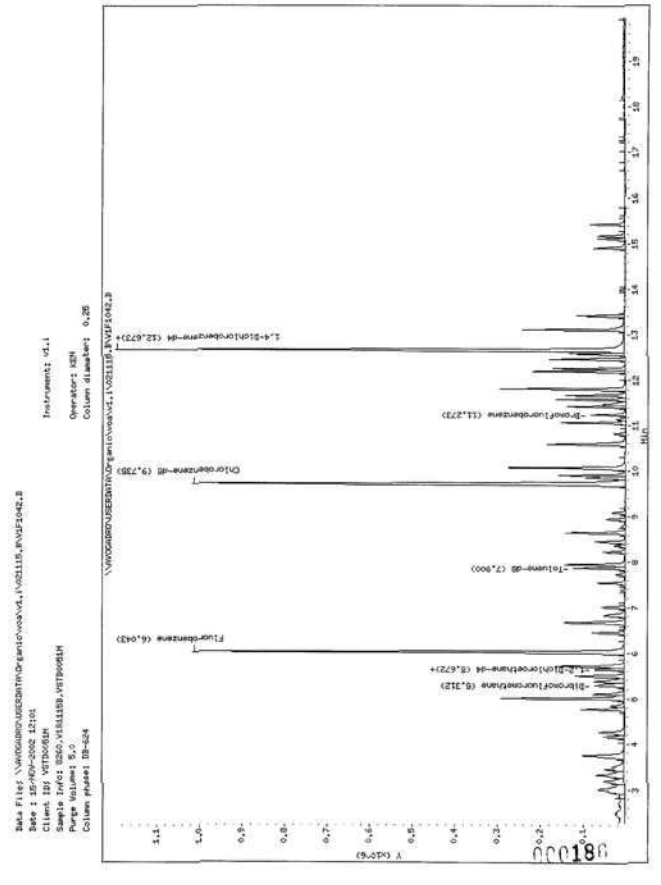
Heated Purge: (Y/N) N Calibration Time(s): 1604 1824

GC Column: DB-624 ID: 0.25 (mm)

LAB FILE ID: RRF5 =V6C3422 RRF20 =V6C3426
RRF50 =V6C3421 RRF100=V6C3425 RRF200=V6C3424

COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
1,2-Dibromoethane	0.279	0.243	0.257	0.253	0.253	0.257	5.2
Chlorobenzene *	1.094	1.012	0.923	0.985	0.881	0.979	8.4*
1,1,1,2-Tetrachloroethane	0.378	0.346	0.341	0.360	0.351	0.355	4.1
Ethylbenzene	0.578	0.531	0.467	0.557	0.537	0.534	7.8
m,p-Xylene	0.703	0.665	0.583	0.662	0.589	0.640	8.1
o-Xylene	0.703	0.655	0.606	0.680	0.665	0.662	5.4
Xylene (Total)	0.703	0.662	0.591	0.668	0.614	0.648	6.9
Styrene	1.116	1.063	1.000	1.046	0.926	1.030	7.0
Bromoform *	0.203	0.180	0.206	0.199	0.203	0.198	5.2*
Isopropylbenzene	1.648	1.559	1.310	1.458	1.200	1.435	12.6
1,1,2,2-Tetrachloroethane *	0.549	0.462	0.480	0.498	0.479	0.494	6.8*
Bromobenzene	0.866	0.791	0.739	0.825	0.783	0.801	5.9
1,2,3-Trichloropropane	0.678	0.581	0.622	0.630	0.611	0.624	5.6
n-Propylbenzene	0.935	0.879	0.708	0.927	0.891	0.868	10.7
2-Chlorotoluene	0.835	0.764	0.669	0.812	0.764	0.769	8.3
1,3,5-Trimethylbenzene	2.621	2.365	1.988	2.297	1.918	2.238	12.9
4-Chlorotoluene	0.832	0.804	0.696	0.833	0.804	0.794	7.1
tert-Butylbenzene	2.964	2.756	2.317	2.749	2.391	2.635	10.3
1,2,4-Trimethylbenzene	2.623	2.461	2.087	2.327	1.954	2.290	11.9
sec-Butylbenzene	3.316	3.077	2.416	2.886	2.280	2.795	15.7
4-Isopropyltoluene	2.808	2.666	2.130	2.528	2.070	2.440	13.4
1,3-Dichlorobenzene	1.680	1.526	1.366	1.521	1.372	1.493	8.7
1,4-Dichlorobenzene	1.728	1.555	1.382	1.497	1.344	1.501	10.2
n-Butylbenzene	2.458	2.282	1.810	2.144	1.791	2.097	14.0
1,2-Dichlorobenzene	1.542	1.410	1.285	1.390	1.271	1.380	8.0
1,2-Dibromo-3-chloropropane	0.081	0.075	0.080	0.077	0.077	0.078	3.4
1,2,4-Trichlorobenzene	1.084	1.019	0.948	1.030	0.960	1.008	5.5
Hexachlorobutadiene	0.610	0.528	0.416	0.548	0.538	0.528	13.3
Naphthalene	2.214	1.689	1.699	1.649	1.493	1.749	15.6
1,2,3-Trichlorobenzene	0.962	0.858	0.810	0.854	0.808	0.858	7.3
1-Chlorohexane	0.562	0.437	0.375	0.465	0.446	0.457	14.9
Dibromofluoromethane	0.226	0.212	0.235	0.233	0.232	0.228	4.0
1,2-Dichloroethane-d4	0.056	0.052	0.058	0.054	0.056	0.055	4.2
Toluene-d8	1.122	1.060	1.058	1.073	0.952	1.053	5.9
Bromofluorobenzene	0.406	0.379	0.407	0.402	0.396	0.398	2.9

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021115.B\V1F1042.D
Report Date: 26-Nov-2002 14:33

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021115.B\V1F1042.D
Lab Smp Id: V1S1115B   Client Smp ID: VSTD0051M
Inj Date : 15-NOV-2002 12:01
Operator : KEN   Inst ID: v1.i
Smp Info : 8260,V1S1115B,VSTD0051M
Misc Info : ,1,1
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021115.B\v18260.m
Meth Date : 18-Nov-2002 12:20 mtl   Quant Type: ISTD
Cal Date : 15-NOV-2002 14:27   Cal File: V1F1047.D
Als bottle: 2   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.534	1.531	(0.251)	38733	5.00000	5
116 Freon11e	85	1.442	1.446	(0.273)	30563	5.00000	5
2 Chloromethane	50	1.473	1.640	(0.277)	69790	5.00000	5
3 Vinyl Chloride	62	1.800	1.807	(0.296)	45776	5.00000	4
4 Bromomethane	94	2.104	2.115	(0.345)	5713	5.00000	4(a)
5 Chloroethane	64	2.239	2.231	(0.370)	13135	5.00000	5
6 Trichlorofluoromethane	101	2.479	2.466	(0.410)	39538	5.00000	4
7 Acrolein	56	2.893	2.878	(0.479)	7970	25.0000	38
8 1,1-Dichloroethene	96	3.020	3.027	(0.500)	33765	5.00000	6
9 Acetone	43	3.052	3.048	(0.508)	12750	5.00000	4
114 1,1,2-Trichlo-1,2,2-trifluoro	101	3.043	3.048	(0.505)	28612	5.00000	4
10 Iodomethane	142	3.190	3.185	(0.528)	37503	5.00000	6
11 Carbon Disulfide	76	3.211	3.218	(0.531)	94936	5.00000	4
12 Acetonitrile	40	3.328	3.324	(0.551)	27658	50.0000	64
13 Allyl Chloride	76	3.345	3.345	(0.554)	21107	5.00000	5
14 Methylene Chloride	84	3.466	3.473	(0.573)	41490	5.00000	6

000187

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021115.B\V1F1042.D
Report Date: 26-Nov-2002 14:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	15 Acrylonitrile	53	3.724	3.714	(0.616)	39836	25.0000	28
	16 trans-1,2-Dichloroethene	96	3.752	3.752	(0.621)	35723	5.00000	6
	112 Methyl Acetate	43	3.192	3.388	(0.581)	34451	5.00000	6
	17 Methyl tert-butyl ether	73	3.773	3.780	(0.624)	81226	5.00000	5
	18 1,1-Dichloroethane	63	4.177	4.183	(0.691)	67931	5.00000	6
	19 Vinyl acetate	43	4.261	4.247	(0.705)	53034	5.00000	4(a)
	20 2-Chloro-1,3-Butadiene	53	4.283	4.279	(0.709)	39862	5.00000	5
	22 cis-1,2-Dichloroethene	96	4.792	4.744	(0.793)	38013	5.00000	5
	24 2,2-Dichloropropane	77	4.799	4.788	(0.793)	39859	5.00000	5
	23 2-Butanone	43	4.834	4.820	(0.800)	13631	5.00000	5
	25 Propionitrile	54	4.877	4.862	(0.807)	45605	50.0000	56
	26 Methacrylonitrile	41	5.023	5.033	(0.831)	182825	50.0000	53
	27 Bromochloromethane	128	5.046	5.042	(0.836)	18266	5.00000	5
	25 Tetrahydrofuran	72	5.121	5.117	(0.847)	3866	5.00000	5
	28 Chloroform	83	5.131	5.138	(0.849)	62000	5.00000	6
$	30 Dibromofluoromethane	113	5.301	5.308	(0.877)	31648	5.00000	6
	31 1,1,1-Trichloroethane	97	5.333	5.329	(0.883)	42708	5.00000	6
	113 Cyclohexane	56	5.376	5.403	(0.893)	55124	5.00000	5
	32 1,1-Dichloropropene	110	5.513	5.509	(0.912)	15615	5.00000	5
	33 Carbon Tetrachloride	117	5.513	5.520	(0.913)	19520	5.00000	6
	34 Isobutyl Alcohol	43	5.672	5.664	(0.939)	30744	100.000	120
$	35 1,2-Dichloroethane-d4	105	5.462	5.668	(0.957)	9082	5.00000	5
	37 Benzene	78	5.735	5.732	(0.949)	147027	5.00000	5
	36 1,2-Dichloroethane	62	5.747	5.743	(0.951)	43451	5.00000	4
*	38 Fluorobenzene	96	6.043	6.040	(1.000)	1173819	50.0000	
	39 Trichloroethene	130	6.468	6.464	(1.070)	31759	5.00000	5
M	21 1,2-Dichloroethene (Total)	96				77736	10.0000	11
	114 Methylcyclohexane	83	6.481	6.487	(1.107)	46351	5.00000	4
	40 1,2-Dichloropropane	63	6.701	6.706	(1.108)	37855	5.00000	5
	42 Dibromomethane	93	6.839	6.835	(1.132)	21447	5.00000	5
	41 Methyl Methacrylate	69	6.849	6.654	(1.138)	15383	5.00000	4(a)
	43 Bromodichloromethane	83	7.030	7.026	(1.163)	43288	5.00000	5
	44 2-Chloroethyl vinyl ether	63	7.401	7.397	(1.228)	6350	5.00000	3(a)
	45 cis-1,3-Dichloropropene	75	7.571	7.567	(1.253)	50595	5.00000	5
	46 4-Methyl-2-pentanone	43	7.742	7.738	(1.284)	20778	5.00000	4(a)
$	47 Toluene-d8	98	7.900	7.896	(0.811)	108853	5.00000	5
	48 Toluene	91	7.974	7.981	(1.319)	137391	5.00000	5
	49 trans-1,3-Dichloropropene	75	8.250	8.248	(1.365)	43539	5.00000	5
	50 Ethyl Methacrylate	69	8.388	8.384	(1.388)	20408	5.00000	3(a)
	51 1,1,2-Trichloroethane	97	8.473	8.469	(1.402)	23803	5.00000	5
	53 Tetrachloroethene	164	8.874	8.870	(0.831)	27047	5.00000	4
	52 1,3-Dichloropropane	76	8.685	8.681	(0.843)	40568	5.00000	5
	54 2-Hexanone	43	8.833	8.800	(0.906)	13086	5.00000	4(a)
	55 Dibromochloromethane	129	8.971	8.978	(0.822)	25263	5.00000	5
	56 1,2-Dibromoethane	107	9.120	9.116	(0.937)	28834	5.00000	5
*	57 Chlorobenzene-d5	117	9.735	9.731	(1.000)	758274	50.0000	
	115 1-Chlorohexane	91	9.746	9.743	(1.002)	49723	5.00000	5

000188

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021115.B\V1F1042.D
Report Date: 26-Nov-2002 14:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	58 Chlorobenzene	112	9.747	9.773	(1.003)	97619	5.00000	5
	59 1,1,1,2-Tetrachloroethane	131	9.883	9.880	(1.015)	29463	5.00000	5
	60 Ethylbenzene	106	9.926	9.932	(1.020)	47087	5.00000	5
	61 m,p-Xylene	106	10.094	10.092	(1.037)	117458	10.0000	10
	62 o-Xylene	106	10.608	10.611	(1.089)	54213	5.00000	5
	64 Styrene	104	10.424	10.622	(1.092)	64790	5.00000	4(a)
	65 Bromoform	173	10.849	10.845	(1.114)	16340	5.00000	5
	66 Isopropylbenzene	105	11.093	11.089	(1.139)	126805	5.00000	5
$	68 Bromofluorobenzene	95	11.273	11.269	(1.158)	40786	5.00000	5
	69 1,1,2,2-Tetrachloroethane	83	11.462	11.460	(0.904)	39034	5.00000	5
	70 Bromobenzene	156	11.453	11.448	(0.904)	10413	5.00000	5
	67 trans-1,4-Dichloro-2-butene	75	11.187	11.183	(1.147)	6416	5.00000	1(a)
	71 1,2,3-Trichloropropane	75	11.806	11.502	(0.908)	32414	5.00000	5(M)
	72 n-Propylbenzene	120	11.615	11.609	(0.916)	14576	5.00000	5
	73 2-Chlorotoluene	126	11.697	11.704	(0.923)	32031	5.00000	5
	74 1,3,5-Trimethylbenzene	105	11.836	11.831	(0.934)	114079	5.00000	5
	75 4-Chlorotoluene	126	11.836	11.831	(0.934)	33089	5.00000	5
	76 tert-Butylbenzene	119	12.217	12.224	(0.944)	102044	5.00000	5
	77 1,2,4-Trimethylbenzene	105	12.281	12.277	(0.949)	114261	5.00000	5
	78 sec-Butylbenzene	105	12.483	12.480	(0.965)	141001	5.00000	4
	80 1,3-Dichlorobenzene	146	12.599	12.595	(0.854)	59052	5.00000	5
	79 4-Isopropyltoluene	119	12.665	12.459	(0.970)	111380	5.00000	5
*	81 1,4-Dichlorobenzene-d4	152	12.673	12.480	(1.000)	361476	50.0000	
	82 1,4-Dichlorobenzene	146	12.705	12.701	(1.002)	69324	5.00000	4
M	63 Xylene (Total)	106				171671	15.0000	15
	84 1,2-Dichlorobenzene	146	13.129	13.136	(1.036)	57956	5.00000	6
	83 n-Butylbenzene	91	13.140	13.136	(1.037)	101713	5.00000	6
	85 Hexachloroethane	117	13.426	13.435	(1.069)	30576	5.00000	5
	86 1,2-Dibromo-3-chloropropane	75	14.019	14.006	(1.108)	5000	5.00000	5
	87 1,2,4-Trichlorobenzene	180	14.921	14.988	(1.178)	30404	5.00000	5
	88 Hexachlorobutadiene	225	15.134	15.130	(1.194)	12499	5.00000	5
	89 Naphthalene	128	15.187	15.183	(1.198)	71187	5.00000	5
	90 1,2,3-Trichlorobenzene	180	15.452	15.449	(1.219)	29418	5.00000	5

MZ YD 11/26/02

QC Flag Legend

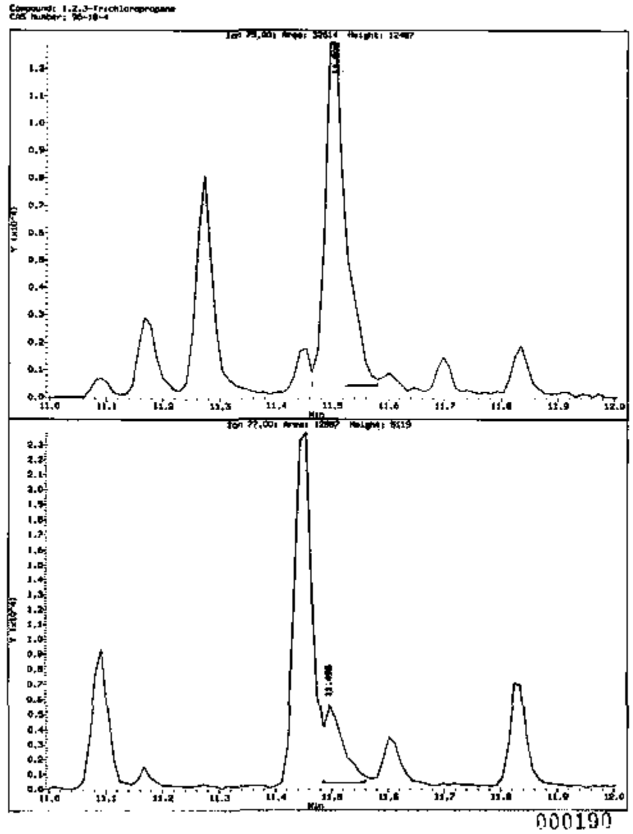
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

YD 11/26/02

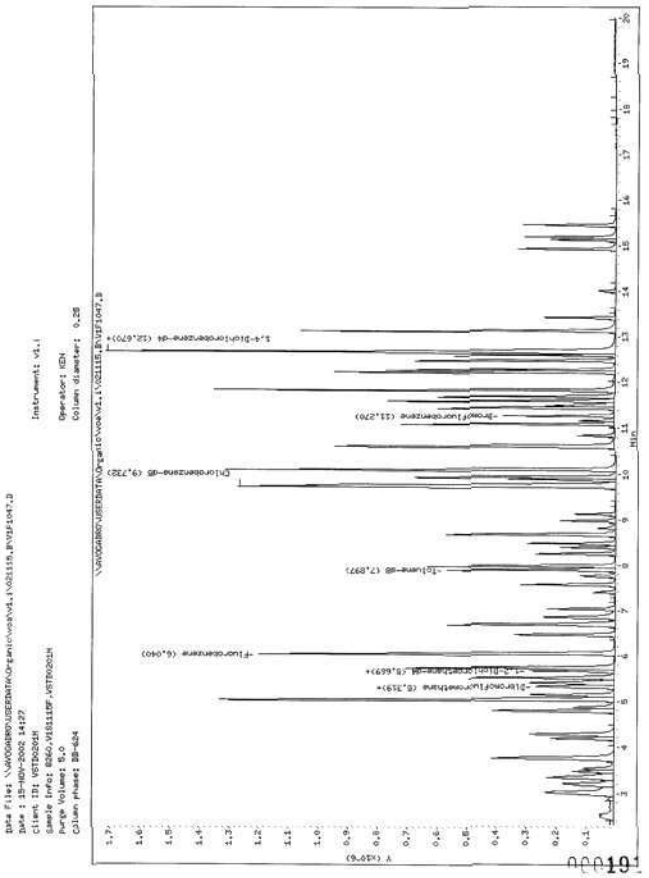
000189

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021115.B\V1F1042.D
Injection Date: 15-NOV-2002 12:01
Instrument: v1.i
Client Sample ID: VSTD0051M

Compound: 1,2,3-Trichloropropane
CAS Number: 96-18-4



000190



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021115.B\V1F1047.D
Report Date: 26-Nov-2002 14:33

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021115.B\V1F1047.D
Lab Smp Id: V1S1115F Client Smp ID: VSTD0201M
Inj Date : 15-NOV-2002 14:27
Operator : KEN Inst ID: v1.i
Smp Info : 8260,V1S1115F,VSTD0201M
Misc Info : ,1,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021115.B\v18260.m
Meth Date : 18-Nov-2002 12:20 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 14:27 Cal File: V1F1047.D
Als bottle: 7 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET8

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compound#	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	1 Dichlorodifluoromethane	85	1.522	1.521	(0.252)	142273	20.0000	19
116	Freon114	85	1.660	1.648	(0.275)	134812	20.0000	18
	2 Chloromethane	50	1.681	1.680	(0.278)	216729	20.0000	20
	3 Vinyl Chloride	62	1.797	1.807	(0.298)	188663	20.0000	21
	4 Bromomethane	94	2.126	2.115	(0.352)	57856	20.0000	16
	5 Chloroethane	64	2.243	2.231	(0.371)	25224	20.0000	9
	6 Trichlorofluoromethane	101	2.487	2.486	(0.412)	69069	20.0000	17
	7 Acrolein	56	2.879	2.878	(0.477)	19336	100.000	74
	8 1,1-Dichloroethene	96	3.017	3.027	(0.500)	134575	20.0000	22
	9 Acetone	43	3.049	3.048	(0.505)	36576	20.0000	19
111	1,1,2-Trichlo-1,2,2-trifluoro	101	3.039	3.048	(0.503)	110986	20.0000	19
	10 Iodomethane	142	3.176	3.186	(0.526)	154301	20.0000	20
	11 Carbon Disulfide	76	3.219	3.218	(0.533)	194591	20.0000	20
	12 Acetonitrile	40	3.325	3.324	(0.550)	99939	200.000	200
	13 Allyl Chloride	76	3.346	3.345	(0.554)	92174	20.0000	20
	14 Methylene Chloride	84	3.473	3.473	(0.575)	164123	20.0000	20

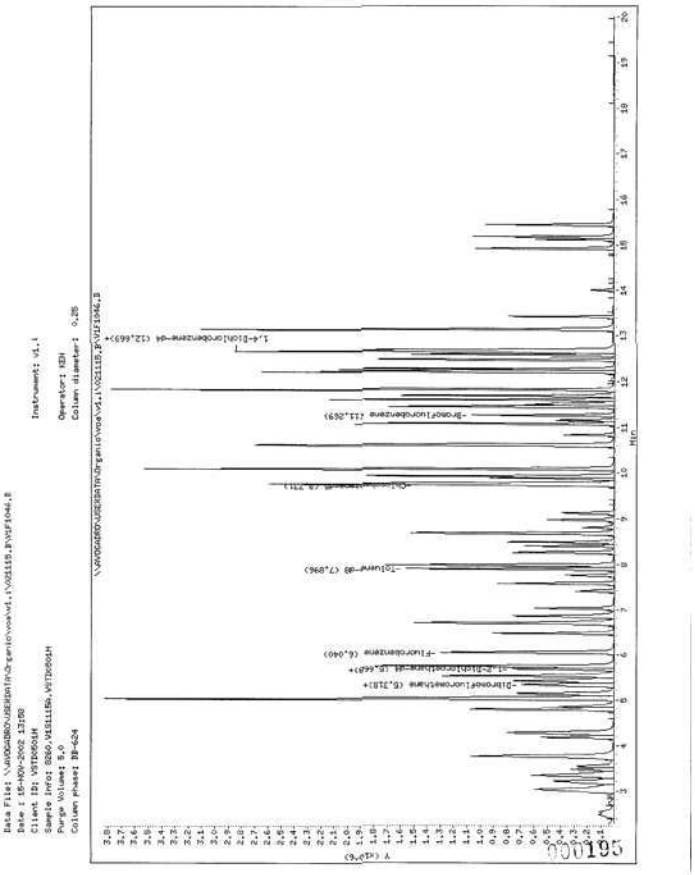
Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021115.B\V1F1047.D
Report Date: 26-Nov-2002 14:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	15 Acrylonitrile	53	3.717	3.716	(0.615)	111888	100.000	86
	16 trans-1,2-Dichloroethene	96	3.760	3.759	(0.622)	163480	20.0000	20
112	Methyl Acetate	43	3.389	3.388	(0.561)	100000	20.0000	21
	17 Methyl tert-butyl ether	73	3.770	3.780	(0.624)	250981	20.0000	21
	18 1,1-Dichloroethane	63	4.184	4.185	(0.693)	293142	20.0000	20
45	Vinyl acetate	43	4.354	4.347	(0.720)	245586	20.0000	14
	20 2-Chloro-1,3-Butadiene	53	4.290	4.279	(0.708)	201401	20.0000	20
	23 cis-1,2-Dichloroethene	96	4.789	4.788	(0.793)	166001	20.0000	20
	24 2,2-Dichloropropane	77	4.789	4.788	(0.793)	116540	20.0000	20
	22 2-Butanone	43	4.831	4.820	(0.800)	57606	20.0000	20
	25 Propionitrile	54	4.863	4.862	(0.805)	185648	200.000	190
	26 Methacrylonitrile	41	5.022	5.032	(0.831)	831974	200.000	200
	27 Bromochloromethane	128	5.043	5.042	(0.835)	77556	20.0000	19
	29 Tetrahydrofuran	72	5.118	5.117	(0.847)	16146	20.0000	19
	28 Chloroform	83	5.139	5.138	(0.851)	258533	20.0000	20
S	30 Dibromofluoromethane	113	5.309	5.308	(0.879)	136491	20.0000	19
	31 1,1,1-Trichloroethane	97	5.330	5.329	(0.882)	178267	20.0000	20
113	Cyclohexane	56	5.393	5.403	(0.893)	236593	20.0000	19
	32 1,1-Dichloropropene	110	5.510	5.509	(0.912)	73597	20.0000	20
	33 Carbon Tetrachloride	117	5.521	5.520	(0.914)	160823	20.0000	19
	34 Isobutyl Alcohol	43	5.669	5.668	(0.939)	109944	400.000	380
S	35 1,2-Dichloroethane-d4	102	5.669	5.668	(0.939)	32285	20.0000	19
	37 Benzene	78	5.733	5.732	(0.949)	449932	20.0000	20
	36 1,2-Dichloroethane	62	5.744	5.742	(0.951)	179306	20.0000	20
*	38 Fluorobenzene	96	6.060	6.060	(1.000)	1392188	50.0000	
	39 Trichloroethene	130	6.465	6.464	(1.070)	138334	20.0000	19
M	21 1,2-Dichloroethene (Total)	96				329481	40.0000	39
114	Methylcyclohexane	83	6.688	6.687	(1.107)	194763	20.0000	19
	40 1,2-Dichloropropane	63	6.709	6.708	(1.111)	168174	20.0000	20
	42 Dibromomethane	93	6.836	6.835	(1.132)	93034	20.0000	19
	41 Methyl Methacrylate	69	6.868	6.856	(1.137)	81146	20.0000	18
	43 Bromodichloromethane	83	7.027	7.026	(1.163)	185944	20.0000	20
	44 2-Chloroethyl vinyl ether	63	7.398	7.397	(1.225)	42744	20.0000	17
	45 cis-1,3-Dichloropropene	75	7.568	7.567	(1.253)	242122	20.0000	20
	46 4-Methyl-2-pentanone	43	7.759	7.758	(1.284)	108662	20.0000	19
S	47 Toluene-d8	98	7.697	7.696	(0.811)	484157	20.0000	19
	48 Toluene	91	7.982	7.981	(1.321)	611277	20.0000	19
	49 trans-1,3-Dichloropropene	75	8.247	8.246	(1.365)	199240	20.0000	19
	50 Ethyl Methacrylate	69	8.385	8.384	(1.388)	133777	20.0000	18
	51 1,1,2-Trichloroethane	97	8.470	8.469	(1.402)	123601	20.0000	19
	53 Tetrachloroethene	164	8.671	8.670	(0.891)	109293	20.0000	19
	52 1,3-Dichloropropane	76	8.682	8.681	(0.892)	211733	20.0000	20
	54 2-Hexanone	43	8.809	8.808	(0.905)	65143	20.0000	18
	55 Dibromochloromethane	129	8.968	8.978	(0.922)	127699	20.0000	19
	56 1,2-Dibromoethane	107	9.117	9.116	(0.937)	129227	20.0000	19
*	57 Chlorobenzene-d5	117	9.732	9.731	(1.000)	892730	50.0000	
115	1-Chlorohexane	91	9.764	9.763	(1.003)	192804	20.0000	19

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021115.B\V1F1047.D
Report Date: 26-Nov-2002 14:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	58 Chlorobenzene	112	9.774	9.773	(1.004)	398516	20.0000	19
	59 1,1,1,2-Tetrachloroethane	131	9.880	9.880	(1.015)	123779	20.0000	20
	60 Ethylbenzene	106	9.934	9.932	(1.021)	210571	20.0000	20
	61 m,p-Xylene	106	10.093	10.092	(1.037)	533241	40.0000	40
	62 o-Xylene	106	10.613	10.611	(1.090)	263453	20.0000	20
	64 Styrene	104	10.623	10.622	(1.092)	365424	20.0000	19
	65 Bromoform	173	10.846	10.845	(1.114)	71859	20.0000	18
	66 Isopropylbenzene	105	11.090	11.089	(1.140)	588417	20.0000	20
S	68 Bromofluorobenzene	95	11.270	11.269	(1.158)	174391	20.0000	19
	69 1,1,2,2-Tetrachloroethane	83	11.461	11.460	(0.904)	162350	20.0000	20
	70 Bromobenzene	156	11.450	11.449	(0.903)	139413	20.0000	20
	67 trans-1,4-Dichloro-2-butene	75	11.164	11.163	(1.147)	39737	20.0000	17
	71 1,2,3-Trichloropropane	75	11.503	11.502	(0.907)	161121	20.0000	20
	72 n-Propylbenzene	120	11.609	11.609	(0.916)	153907	20.0000	20
	73 2-Chlorotoluene	126	11.705	11.704	(0.923)	139076	20.0000	20
	74 1,3,5-Trimethylbenzene	105	11.832	11.831	(0.933)	493397	20.0000	20
	75 4-Chlorotoluene	126	11.832	11.831	(0.933)	146405	20.0000	20
	76 tert-Butylbenzene	119	12.225	12.224	(0.964)	445816	20.0000	20
	77 1,2,4-Trimethylbenzene	105	12.278	12.277	(0.968)	498657	20.0000	20
	78 sec-Butylbenzene	105	12.479	12.489	(0.984)	607442	20.0000	20
	80 1,3-Dichlorobenzene	146	12.596	12.595	(0.993)	249891	20.0000	20
	79 4-Isopropyltoluene	119	12.660	12.659	(0.998)	457288	20.0000	20
*	81 1,4-Dichlorobenzene-d4	152	12.681	12.680	(1.000)	404933	50.0000	
	82 1,4-Dichlorobenzene	146	12.702	12.701	(1.002)	278463	20.0000	20
M	83 Xylene (Total)	106				796894	60.0000	60
	84 1,2-Dichlorobenzene	146	13.137	13.136	(1.036)	243696	20.0000	20
	85 n-Butylbenzene	91	13.137	13.136	(1.036)	422609	20.0000	20
	86 Hexachloroethane	117	13.423	13.433	(1.059)	76791	20.0000	16
	87 1,2,4-Trichlorobenzene	180	14.930	14.929	(1.177)	122378	20.0000	19
	88 Hexachlorobutadiene	225	15.131	15.130	(1.193)	66614	20.0000	20
	89 Naphthalene	128	15.195	15.183	(1.198)	313387	20.0000	19
	90 1,2,3-Trichlorobenzene	180	15.449	15.449	(1.218)	112076	20.0000	18

KD 11/26/02



000195

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021115.B\V1F1046.D
Report Date: 26-Nov-2002 14:58

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021115.B\V1F1046.D
Lab Smp Id: V1S1115A Client Smp ID: VSTD0501M
Inj Date : 15-NOV-2002 13:58
Operator : KEN Inst ID: v1.i
Smp Info : 8260,V1S1115A,VSTD0501M
Misc Info : ,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021115.B\v18260.m
Meth Date : 18-Nov-2002 12:20 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 14:27 Cal File: V1F1047.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.521	1.521	(0.252)	400084	50.0000	48
116	Freon114	85	1.648	1.648	(0.273)	391757	50.0000	48
2	Chloromethane	50	1.680	1.680	(0.278)	577492	50.0000	48
3	Vinyl Chloride	62	1.807	1.807	(0.299)	475816	50.0000	46
4	Bromomethane	94	2.115	2.115	(0.350)	61303	50.0000	34(M)
5	Chloroethane	64	2.231	2.231	(0.369)	170932	50.0000	54
6	Trichlorofluoromethane	101	2.486	2.486	(0.412)	200412	50.0000	44
7	Acrolein	56	2.878	2.878	(0.477)	60621	250.000	210
8	1,1-Dichloroethene	96	3.027	3.027	(0.501)	159046	50.0000	52
9	Acetone	43	3.048	3.048	(0.505)	88144	50.0000	42
111	1,1,2-Trichlo-1,2,2-trifluoro	101	3.048	3.048	(0.505)	308826	50.0000	48
10	Iodomethane	142	3.186	3.186	(0.528)	411243	50.0000	47
11	Carbon Disulfide	76	3.218	3.218	(0.533)	1026951	50.0000	47
12	Acetonitrile	40	3.324	3.324	(0.550)	264823	500.000	460
13	Allyl Chloride	76	3.345	3.345	(0.554)	270085	50.0000	51
14	Methylene Chloride	84	3.473	3.473	(0.575)	424015	50.0000	46

M1 Yp mtl

000196

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021115.B\V1F1046.D
Report Date: 26-Nov-2002 14:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
15	Acrylonitrile	53	3.716	3.716	(0.615)	323888	250.000	220
16	trans-1,2-Dichloroethene	96	3.759	3.759	(0.622)	435760	50.0000	46
112	Methyl Acetate	43	3.388	3.388	(0.561)	254786	50.0000	47
17	Methyl tert-butyl ether	73	3.780	3.780	(0.626)	683329	50.0000	51
18	1,1-Dichloroethane	63	4.183	4.183	(0.693)	758565	50.0000	47
19	Vinyl acetate	43	4.247	4.247	(0.703)	812703	50.0000	53
20	2-Chloro-1,3-Butadiene	53	4.279	4.279	(0.708)	557147	50.0000	49
23	cis-1,2-Dichloroethene	96	4.788	4.788	(0.793)	460734	50.0000	47
24	2,2-Dichloropropane	77	4.788	4.788	(0.793)	320549	50.0000	48
22	2-Butanone	43	4.820	4.820	(0.798)	185103	50.0000	50
25	Propionitrile	54	4.862	4.862	(0.805)	530534	500.000	490
26	Methacrylonitrile	41	5.033	5.032	(0.833)	2355129	500.000	510
27	Bromochloromethane	128	5.042	5.042	(0.835)	209977	50.0000	47
29	Tetrahydrofuran	72	5.117	5.117	(0.847)	47310	50.0000	49
28	Chloroform	83	5.138	5.138	(0.851)	677031	50.0000	47
S 30	Dibromofluoromethane	113	5.308	5.308	(0.879)	364786	50.0000	46
31	1,1,1-Trichloroethane	97	5.329	5.329	(0.882)	458369	50.0000	46
113	Cyclohexane	56	5.403	5.403	(0.895)	674417	50.0000	49
32	1,1-Dichloropropene	110	5.509	5.509	(0.912)	198143	50.0000	48
33	Carbon Tetrachloride	117	5.520	5.520	(0.914)	429965	50.0000	48
34	Isobutyl Alcohol	43	5.668	5.668	(0.939)	319159	1000.00	980
S 35	1,2-Dichloroethane-d4	102	5.668	5.668	(0.939)	86231	50.0000	46
37	Benzene	78	5.732	5.732	(0.949)	1710409	50.0000	47
36	1,2-Dichloroethane	62	5.742	5.742	(0.951)	463609	50.0000	47
* 38	Fluorobenzene	96	6.040	6.040	(1.000)	1553970	50.0000	
39	Trichloroethene	130	6.464	6.464	(1.070)	373839	50.0000	47
M 21	1,2-Dichloroethene (Total)	96				876495	100.000	94
114	Methylcyclohexane	83	6.687	6.687	(1.107)	560101	50.0000	48
40	1,2-Dichloropropane	63	6.708	6.708	(1.111)	439594	50.0000	47
42	Dibromomethane	93	6.835	6.835	(1.132)	251819	50.0000	47
41	Methyl Methacrylate	69	6.856	6.856	(1.135)	253916	50.0000	52
43	Bromodichloromethane	83	7.026	7.026	(1.163)	498047	50.0000	47
44	2-Chloroethyl vinyl ether	63	7.397	7.397	(1.226)	160063	50.0000	58
45	cis-1,3-Dichloropropene	75	7.567	7.567	(1.253)	671629	50.0000	49
46	4-Methyl-2-pentanone	43	7.758	7.758	(1.285)	322089	50.0000	52
S 47	Toluene-d8	98	7.896	7.896	(0.811)	1333170	50.0000	47
48	Toluene	91	7.981	7.981	(1.321)	1676709	50.0000	49
49	trans-1,3-Dichloropropene	75	8.246	8.246	(1.365)	562109	50.0000	49
50	Ethyl Methacrylate	69	8.384	8.384	(1.388)	454729	50.0000	54
51	1,1,2-Trichloroethane	97	8.469	8.469	(1.402)	341008	50.0000	47
53	Tetrachloroethene	164	8.670	8.670	(0.891)	293128	50.0000	46
52	1,3-Dichloropropane	76	8.681	8.681	(0.892)	591964	50.0000	48
54	2-Hexanone	43	8.808	8.808	(0.905)	214723	50.0000	54
55	Dibromochloromethane	129	8.978	8.978	(0.923)	359375	50.0000	48
56	1,2-Dibromoethane	107	9.116	9.116	(0.937)	360851	50.0000	48
* 57	Chlorobenzene-d5	117	9.731	9.731	(1.000)	1009380	50.0000	
115	1-Chlorohexane	91	9.763	9.763	(1.003)	534694	50.0000	47

000197

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021115.B\V1F1046.D
Report Date: 26-Nov-2002 14:58

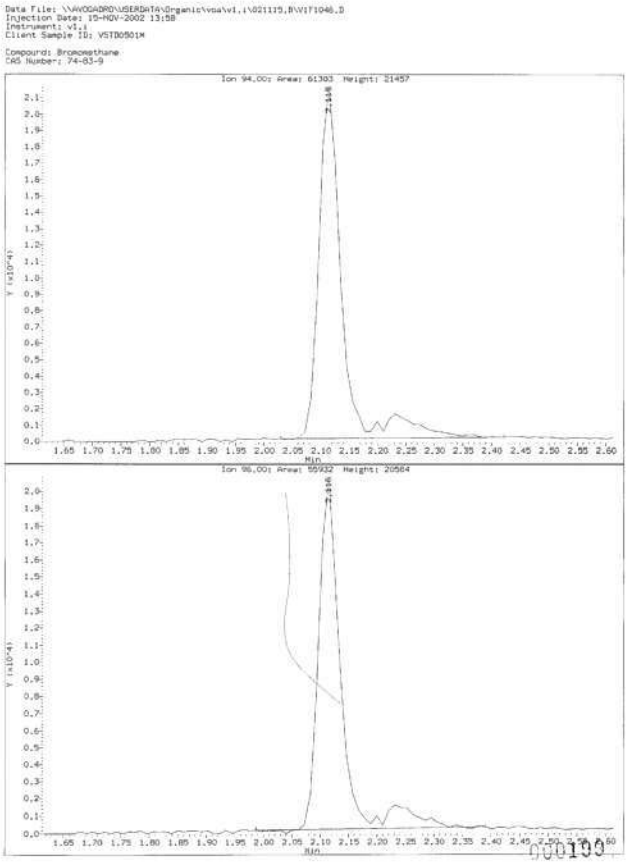
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
58	Chlorobenzene	112	9.773	9.773	(1.004)	1082592	50.0000	46
59	1,1,1,2-Tetrachloroethane	131	9.880	9.880	(1.015)	330261	50.0000	46
60	Ethylbenzene	106	9.932	9.932	(1.021)	567737	50.0000	47
61	m,p-Xylene	106	10.092	10.092	(1.037)	1451485	100.000	96
62	o-Xylene	106	10.611	10.611	(1.090)	635583	50.0000	48
64	Styrene	104	10.622	10.622	(1.092)	1102034	50.0000	50
65	Bromoform	173	10.845	10.845	(1.114)	212127	50.0000	48
66	Isopropylbenzene	105	11.089	11.089	(1.140)	1620528	50.0000	48
S 68	Bromofluorobenzene	95	11.269	11.269	(1.158)	495093	50.0000	48
69	1,1,2,2-Tetrachloroethane	83	11.460	11.460	(0.904)	463619	50.0000	48
70	Bromobenzene	156	11.449	11.449	(0.903)	395514	50.0000	47
67	trans-1,4-Dichloro-2-butene	75	11.163	11.163	(1.147)	143118	50.0000	54
71	1,2,3-Trichloropropane	75	11.502	11.502	(0.907)	497119	50.0000	51
72	n-Propylbenzene	120	11.609	11.609	(0.916)	422094	50.0000	46
73	2-Chlorotoluene	126	11.704	11.704	(0.923)	349157	50.0000	46
74	1,3,5-Trimethylbenzene	105	11.831	11.831	(0.933)	1359785	50.0000	47
75	4-Chlorotoluene	126	11.831	11.831	(0.933)	408533	50.0000	47
76	tert-Butylbenzene	119	12.224	12.224	(0.964)	1248471	50.0000	47
77	1,2,4-Trimethylbenzene	105	12.277	12.277	(0.968)	1395725	50.0000	47
78	sec-Butylbenzene	105	12.489	12.489	(0.985)	1651631	50.0000	46
80	1,3-Dichlorobenzene	146	12.595	12.595	(0.993)	710639	50.0000	47
79	4-Isopropyltoluene	119	12.659	12.659	(0.998)	1275280	50.0000	46
* 81	1,4-Dichlorobenzene-d4	152	12.680	12.680	(1.000)	487339	50.0000	
82	1,4-Dichlorobenzene	146	12.701	12.701	(1.002)	767928	50.0000	46
M 83	Xylene (Total)	106				2147068	150.000	140
84	1,2-Dichlorobenzene	146	13.136	13.136	(1.036)	687317	50.0000	46
85	n-Butylbenzene	91	13.136	13.136	(1.036)	1191415	50.0000	47
86	1,2-Dibromo-3-chloropropane	75	14.006	14.006	(1.105)	60755	50.0000	48
87	1,2,4-Trichlorobenzene	180	14.929	14.929	(1.177)	368874	50.0000	46
88	Hexachlorobutadiene	225	15.130	15.130	(1.193)	107130	50.0000	43
89	Naphthalene	128	15.183	15.183	(1.197)	945020	50.0000	49
90	1,2,3-Trichlorobenzene	180	15.449	15.449	(1.218)	321767	50.0000	46

QC Flag Legend

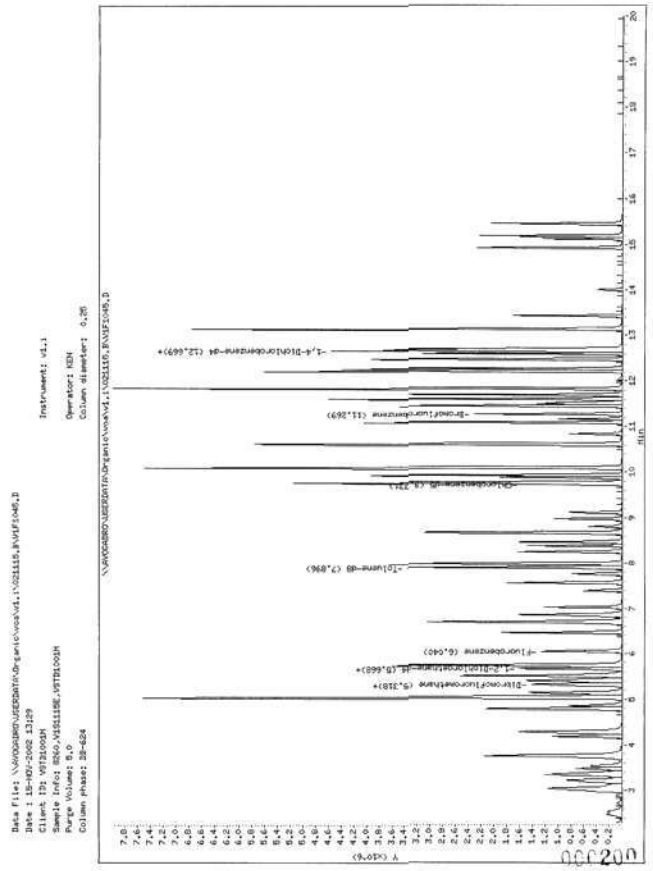
M - Compound response manually integrated.

Yp mtl

000198



000199



000200

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021115.B\V1F1045.D
Report Date: 26-Nov-2002 14:33

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021115.B\V1F1045.D
Lab Smp Id: V1S1115E Client Smp ID: VSTD1001M
Inj Date : 15-NOV-2002 13:29
Operator : KEN Inst ID: v1.i
Smp Info : 8260,V1S1115E,VSTD1001M
Misc Info : ,1,4
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021115.B\v18260.m
Meth Date : 18-Nov-2002 12:20 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 14:27 Cal File: V1F1047.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	==========	====	==	======	======	========	=======	=======
1	Dichlorodifluoromethane	85	1.521	1.521	(0.252)	785052	100.000	96
116	Freon114	85	1.659	1.648	(0.275)	776223	100.000	96
2	Chloromethane	50	1.680	1.680	(0.278)	1182813	100.000	100
3	Vinyl Chloride	62	1.818	1.807	(0.301)	961023	100.000	96
4	Bromomethane	94	2.115	2.115	(0.350)	142733	100.000	84
5	Chloroethane	64	2.232	2.231	(0.369)	334508	100.000	110
6	Trichlorofluoromethane	101	2.486	2.486	(0.412)	452670	100.000	100
7	Acrolein	56	2.879	2.878	(0.477)	139891	500.000	490
8	1,1-Dichloroethene	96	3.027	3.027	(0.501)	347851	100.000	81
9	Acetone	43	3.048	3.048	(0.505)	172171	100.000	80
111	1,1,2-Trichlo-1,2,2-trifluoro	101	3.048	3.048	(0.505)	605726	100.000	96
10	Iodomethane	142	3.186	3.186	(0.528)	836000	100.000	100
11	Carbon Disulfide	76	3.228	3.228	(0.533)	2109215	100.000	98
12	Acetonitrile	40	3.313	3.324	(0.549)	534433	1000.00	960
13	Allyl Chloride	76	3.345	3.345	(0.554)	518785	100.000	100
14	Methylene Chloride	84	3.473	3.473	(0.575)	864827	100.000	96

000201

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021115.B\V1F1045.D
Report Date: 26-Nov-2002 14:33

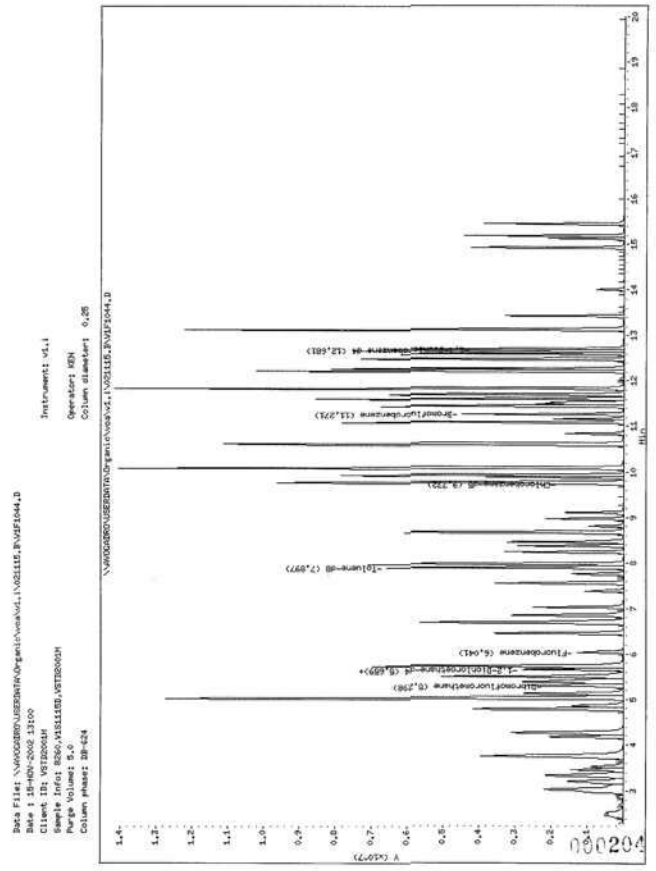
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	==========	====	==	======	======	========	=======	=======
15	Acrylonitrile	53	3.717	3.714	(0.615)	652725	500.000	460
16	trans-1,2-Dichloroethene	96	3.759	3.759	(0.622)	905631	100.000	99
112	Methyl Acetate	43	3.388	3.388	(0.561)	510448	100.000	96
17	Methyl tert-butyl ether	73	3.780	3.780	(0.626)	1316669	100.000	100
18	1,1-Dichloroethane	63	4.181	4.181	(0.693)	1558616	100.000	98
19	Vinyl acetate	43	4.247	4.247	(0.703)	1425495	100.000	110
20	2-Chloro-1,3-Butadiene	53	4.279	4.279	(0.708)	1170844	100.000	100
23	cis-1,2-Dichloroethene	96	4.788	4.788	(0.793)	913669	100.000	100
24	2,2-Dichloropropane	77	4.788	4.788	(0.793)	621038	100.000	95
22	2-Butanone	43	4.820	4.820	(0.798)	330413	100.000	100
35	Propionitrile	54	4.862	4.862	(0.805)	1083071	1000.00	1000
26	Methacrylonitrile	41	5.032	5.032	(0.833)	4547365	1000.00	1000
27	Bromochloromethane	128	5.043	5.042	(0.835)	435170	100.000	100
29	Tetrahydrofuran	72	5.106	5.117	(0.845)	96183	100.000	100
28	Chloroform	83	5.138	5.138	(0.851)	1371697	100.000	96
S	30 Dibromofluoromethane	113	5.308	5.308	(0.879)	773869	100.000	100
	31 1,1,1-Trichloroethane	97	5.329	5.329	(0.882)	935807	100.000	96
	113 Cyclohexane	56	5.403	5.403	(0.895)	1333528	100.000	100
	32 1,1-Dichloropropene	110	5.509	5.509	(0.912)	413644	100.000	100
	33 Carbon Tetrachloride	117	5.520	5.520	(0.914)	883506	100.000	98
	34 Isobutyl Alcohol	43	5.668	5.668	(0.939)	641610	2000.00	2000
S	35 1,2-Dichloroethane-d4	102	5.668	5.668	(0.939)	184838	100.000	100
	37 Benzene	78	5.732	5.732	(0.949)	3516444	100.000	95
	36 1,2-Dichloroethane	62	5.743	5.742	(0.951)	925134	100.000	96
*	38 Fluorobenzene	96	6.040	6.040	(1.000)	1523149	50.0000	
	39 Trichloroethene	130	6.464	6.464	(1.070)	777187	100.000	100
M	21 1,2-Dichloroethene (Total)	96				1819200	200.000	200
	114 Methylcyclohexane	83	6.687	6.687	(1.107)	1138345	100.000	100
	40 1,2-Dichloropropane	63	6.708	6.708	(1.111)	904262	100.000	100
	42 Dibromomethane	93	6.835	6.835	(1.132)	522560	100.000	100
	41 Methyl Methacrylate	69	6.856	6.856	(1.135)	533875	100.000	110
	43 Bromodichloromethane	83	7.026	7.026	(1.163)	1032208	100.000	100
	44 2-Chloroethyl vinyl ether	63	7.396	7.397	(1.225)	330943	100.000	120
	45 cis-1,3-Dichloropropene	75	7.567	7.567	(1.253)	1378227	100.000	100
	46 4-Methyl-2-pentanone	43	7.758	7.758	(1.285)	666758	100.000	110
S	47 Toluene-d8	98	7.896	7.896	(0.811)	2870270	100.000	100
	48 Toluene	91	7.981	7.981	(1.321)	3494129	100.000	100
	49 trans-1,3-Dichloropropene	75	8.248	8.248	(1.365)	1160566	100.000	100
	50 Ethyl Methacrylate	69	8.384	8.384	(1.388)	1000424	100.000	120
	51 1,1,2-Trichloroethane	97	8.469	8.469	(1.402)	705265	100.000	100
	53 Tetrachloroethene	164	8.670	8.670	(0.891)	629411	100.000	100
	52 1,3-Dichloropropane	76	8.681	8.681	(0.892)	1214893	100.000	100
	54 2-Hexanone	43	8.808	8.808	(0.905)	451825	100.000	110
	55 Dibromochloromethane	129	8.967	8.978	(0.922)	757056	100.000	100
	56 1,2-Dibromoethane	107	9.114	9.116	(0.937)	757275	100.000	100
*	57 Chlorobenzene-d5	117	9.731	9.731	(1.000)	991677	50.0000	
	115 1-Chlorohexane	91	9.763	9.763	(1.003)	1102332	100.000	99

000202

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021115.B\V1F1045.D
Report Date: 26-Nov-2002 14:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	58 Chlorobenzene	112	9.774	9.773	(1.004)	2255333	100.000	99
	59 1,1,1,2-Tetrachloroethane	131	9.880	9.880	(1.015)	684040	100.000	98
	60 Ethylbenzene	106	9.933	9.932	(1.021)	1207086	100.000	100
	61 m,p-Xylene	106	10.092	10.092	(1.037)	3053923	200.000	200
	62 o-Xylene	106	10.612	10.611	(1.090)	1454461	100.000	100
	64 Styrene	104	10.622	10.622	(1.092)	2429089	100.000	110
	65 Bromoform	173	10.845	10.845	(1.114)	459112	100.000	110
	66 Isopropylbenzene	105	11.089	11.089	(1.140)	3455015	100.000	100
$	68 Bromofluorobenzene	95	11.249	11.249	(1.158)	1033893	100.000	100
	69 1,1,2,2-Tetrachloroethane	83	11.460	11.460	(0.904)	950993	100.000	99
	70 Bromobenzene	156	11.450	11.449	(0.903)	837231	100.000	100
	67 trans-1,4-Dichloro-2-butene	75	11.163	11.163	(1.147)	313656	100.000	120
	71 1,2,3-Trichloropropane	75	11.503	11.502	(0.907)	1034430	100.000	100
	72 n-Propylbenzene	120	11.609	11.609	(0.916)	903938	100.000	100
	73 2-Chlorotoluene	126	11.704	11.704	(0.923)	816270	100.000	98
	74 1,3,5-Trimethylbenzene	105	11.831	11.831	(0.933)	2949704	100.000	100
	75 4-Chlorotoluene	126	11.831	11.831	(0.933)	860336	100.000	100
	76 tert-Butylbenzene	119	12.224	12.224	(0.964)	2668963	100.000	100
	77 1,2,4-Trimethylbenzene	105	12.277	12.277	(0.968)	2917262	100.000	100
	78 sec-Butylbenzene	105	12.489	12.489	(0.985)	3566814	100.000	100
	80 1,3-Dichlorobenzene	146	12.595	12.595	(0.993)	1513170	100.000	100
	79 4-Isopropyltoluene	119	12.659	12.659	(0.998)	2766376	100.000	100
*	81 1,4-Dichlorobenzene-d4	152	12.680	12.680	(1.000)	482700	90.0000	
	82 1,4-Dichlorobenzene	146	12.701	12.701	(1.002)	1613624	100.000	97
M	83 Xylene (Total)	106				4510384	300.000	310
	84 1,2-Dichlorobenzene	146	13.136	13.136	(1.036)	1468305	100.000	100
	85 n-Butylbenzene	91	13.136	13.136	(1.036)	2583739	100.000	100
	86 Hexachloroethane	117	13.433	13.433	(1.059)	498277	100.000	92
	88 1,2-Dibromo-3-chloropropane	75	14.006	14.006	(1.105)	138744	100.000	100
	87 1,2,4-Trichlorobenzene	180	14.929	14.929	(1.177)	786789	100.000	100
	89 Hexachlorobutadiene	225	15.130	15.130	(1.193)	237120	100.000	96
	85 Naphthalene	128	15.183	15.183	(1.197)	2017916	100.000	100
	90 1,2,3-Trichlorobenzene	180	15.449	15.449	(1.218)	691350	100.000	100

1/D 11/26/02



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021115.B\V1F1044.D
Report Date: 26-Nov-2002 14:33

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021115.B\V1F1044.D
Lab Smp Id: V1S1115D Client Smp ID: VSTD2001M
Inj Date : 15-NOV-2002 13:00
Operator : KEN Inst ID: v1.i
Smp Info : 8260,V1S1115D,VSTD2001M
Misc Info : ,1,5
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021115.B\v18260.m
Meth Date : 18-Nov-2002 12:20 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 14:27 Cal File: V1F1047.D
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET12

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	1 Dichlorodifluoromethane	85	1.522	1.521	(0.252)	1568224	200.000	190
	116 Freon114	85	1.660	1.648	(0.275)	1478467	200.000	190
	2 Chloromethane	50	1.681	1.680	(0.278)	2148758	200.000	180
	3 Vinyl Chloride	62	1.819	1.807	(0.301)	1755968	200.000	180
	4 Bromomethane	94	2.106	2.115	(0.349)	303589	200.000	180
	5 Chloroethane	64	2.233	2.231	(0.370)	786790	200.000	250(A)
	6 Trichlorofluoromethane	101	2.487	2.486	(0.412)	1005322	200.000	230(A)
	7 Acrolein	56	2.880	2.878	(0.477)	268766	1000.00	1000
	8 1,1-Dichloroethene	96	3.018	3.027	(0.500)	995974	200.000	150
	9 Acetone	43	3.039	3.048	(0.503)	289438	200.000	140
111	1,1,2-Trichlo-1,2,2-trifluoro	101	3.050	3.048	(0.505)	1171525	200.000	190
	10 Iodomethane	142	3.188	3.186	(0.528)	1611576	200.000	190
	11 Carbon Disulfide	76	3.219	3.218	(0.533)	3981360	200.000	190
	12 Acetonitrile	40	3.315	3.324	(0.549)	924253	2000.00	1700
	13 Allyl Chloride	76	3.347	3.345	(0.554)	945395	200.000	190
	14 Methylene Chloride	84	3.463	3.473	(0.573)	1640991	200.000	180

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021115.B\V1F1044.D
Report Date: 26-Nov-2002 14:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	15 Acrylonitrile	53	3.718	3.716	(0.615)	1217814	1000.00	870
	16 trans-1,2-Dichloroethene	96	3.750	3.759	(0.621)	1766629	200.000	200
112	Methyl Acetate	43	3.378	3.388	(0.559)	883003	200.000	170
	17 Methyl tert-butyl ether	73	3.771	3.780	(0.624)	2318227	200.000	180
	18 1,1-Dichloroethane	63	4.185	4.181	(0.693)	3038888	200.000	190
	19 Vinyl acetate	43	4.248	4.247	(0.703)	3078224	200.000	210(A)
	20 2-Chloro-1,3-Butadiene	53	4.280	4.279	(0.709)	2282851	200.000	210(A)
	23 cis-1,2-Dichloroethene	96	4.789	4.788	(0.793)	1736374	200.000	200
	24 2,2-Dichloropropane	77	4.789	4.788	(0.793)	1163041	200.000	180
	22 2-Butanone	43	4.811	4.820	(0.796)	585002	200.000	180
	25 Propionitrile	54	4.864	4.862	(0.805)	1937175	2000.00	1800
	26 Methacrylonitrile	41	5.033	5.032	(0.833)	7758568	2000.00	1800
	27 Bromochloromethane	128	5.044	5.042	(0.835)	846818	200.000	200
	29 Tetrahydrofuran	72	5.107	5.117	(0.845)	177534	200.000	190
	28 Chloroform	83	5.139	5.138	(0.851)	2714313	200.000	190
$	30 Dibromofluoromethane	113	5.298	5.308	(0.877)	1525128	200.000	200
	31 1,1,1-Trichloroethane	97	5.330	5.329	(0.882)	1823284	200.000	190
	113 Cyclohexane	56	5.404	5.403	(0.895)	2589880	200.000	200
	32 1,1-Dichloropropene	110	5.511	5.509	(0.912)	832881	200.000	210(A)
	33 Carbon Tetrachloride	117	5.521	5.520	(0.914)	1757057	200.000	200
	34 Isobutyl Alcohol	43	5.670	5.668	(0.939)	1011511	4000.00	3200
$	35 1,2-Dichloroethane-d4	102	5.659	5.668	(0.937)	360144	200.000	200
	37 Benzene	78	5.733	5.732	(0.949)	6853438	200.000	200
	36 1,2-Dichloroethane	62	5.744	5.742	(0.951)	1747666	200.000	180
*	38 Fluorobenzene	96	6.041	6.040	(1.000)	1497798	50.0000	
	39 Trichloroethene	130	6.465	6.464	(1.070)	1576164	200.000	200(A)
M	31 1,2-Dichloroethene (Total)	96				3563004	400.000	400
	114 Methylcyclohexane	83	6.688	6.687	(1.107)	2190086	200.000	200
	40 1,2-Dichloropropane	63	6.709	6.708	(1.111)	1747626	200.000	190
	42 Dibromomethane	93	6.837	6.835	(1.132)	1018020	200.000	200
	41 Methyl Methacrylate	69	6.858	6.856	(1.135)	1014290	200.000	220
	43 Bromodichloromethane	83	7.027	7.026	(1.163)	2028666	200.000	200
	44 2-Chloroethyl vinyl ether	63	7.395	7.397	(1.225)	592631	200.000	220(A)
	45 cis-1,3-Dichloropropene	75	7.569	7.567	(1.253)	2742939	200.000	210(A)
	46 4-Methyl-2-pentanone	43	7.759	7.758	(1.284)	1240645	200.000	210(A)
$	47 Toluene-d8	98	7.897	7.896	(0.811)	5661720	200.000	200(A)
	48 Toluene	91	7.982	7.981	(1.321)	6909011	200.000	200(A)
	49 trans-1,3-Dichloropropene	75	8.247	8.246	(1.365)	2331887	200.000	210(A)
	50 Ethyl Methacrylate	69	8.385	8.384	(1.388)	1965529	200.000	240(A)
	51 1,1,2-Trichloroethane	97	8.470	8.469	(1.402)	1389503	200.000	200(A)
	53 Tetrachloroethene	164	8.672	8.670	(0.691)	1278694	200.000	200(A)
	52 1,3-Dichloropropane	76	8.682	8.681	(0.892)	2337742	200.000	190
	54 2-Hexanone	43	8.816	8.808	(0.905)	838155	200.000	210(A)
	55 Dibromochloromethane	129	8.969	8.978	(0.922)	1524853	200.000	200(A)
	56 1,2-Dibromoethane	107	9.117	9.116	(0.937)	1499722	200.000	200(A)
*	57 Chlorobenzene-d5	117	9.732	9.731	(1.000)	992711	50.0000	
	115 1-Chlorohexane	91	9.764	9.763	(1.003)	2144345	200.000	190

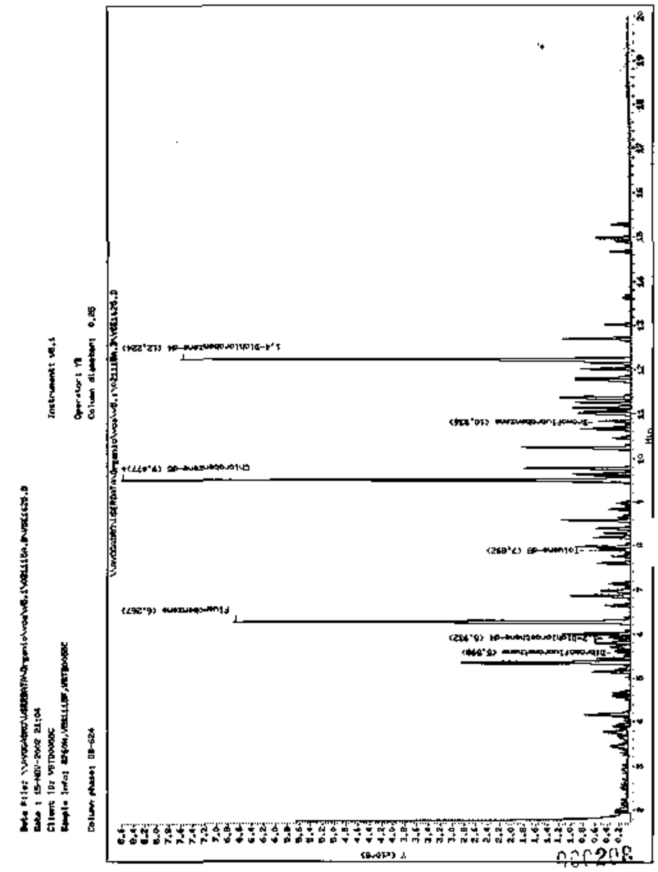
Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021115.B\V1F1044.D
Report Date: 26-Nov-2002 14:33

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
58 Chlorobenzene	112	9.775	9.773	(1.004)	4542124	200.000	200
59 1,1,1,2-Tetrachloroethane	131	9.882	9.880	(1.015)	1379793	200.000	200
60 Ethylbenzene	106	9.934	9.932	(1.021)	2365663	200.000	200(A)
61 m,p-Xylene	106	10.095	10.092	(1.037)	5952784	400.000	400
62 o-Xylene	106	10.813	10.811	(1.090)	2857925	200.000	200(A)
64 Styrene	104	10.534	10.432	(1.097)	4627576	200.000	220(A)
65 Bromoform	173	10.848	10.845	(1.114)	926735	200.000	210(A)
66 Isopropylbenzene	105	11.090	11.088	(1.140)	6772389	200.000	200(A)
$ 68 Bromofluorobenzene	95	11.271	11.269	(1.158)	3041345	200.000	200
69 1,1,2,2-Tetrachloroethane	83	11.461	11.444	(0.904)	1749131	200.000	180
70 Bromobenzene	156	11.453	11.443	(0.903)	1704057	200.000	210(A)
67 trans-1,4-Dichloro-2-butene	75	11.164	11.163	(1.147)	425139	200.000	240(A)
71 1,2,3-Trichloropropane	75	11.504	11.502	(0.907)	1940030	200.000	240(A)
72 n-Propylbenzene	120	11.610	11.609	(0.916)	1741861	200.000	200
73 2-Chlorotoluene	126	11.705	11.704	(0.923)	1424488	200.000	200
74 1,3,5-Trimethylbenzene	105	11.833	11.831	(0.933)	4314494	200.000	190
75 4-Chlorotoluene	126	11.833	11.851	(0.931)	1462944	200.000	200
76 tert-Butylbenzene	119	12.225	12.224	(0.964)	5156465	200.000	200
77 1,2,4-Trimethylbenzene	105	12.278	12.277	(0.960)	5582878	200.000	200
78 sec-Butylbenzene	105	12.490	12.489	(0.986)	4729494	200.000	190
80 1,3-Dichlorobenzene	146	12.597	12.596	(0.993)	3000494	200.000	200(A)
79 4-Isopropyltoluene	119	12.660	12.659	(0.998)	5161227	200.000	190
* 81 1,4-Dichlorobenzene-d4	152	12.681	12.680	(1.002)	470465	40.0000	
82 1,4-Dichlorobenzene	148	12.703	12.701	(1.002)	3166585	200.000	190
M 83 Xylene (Total)	106				8810713	400.000	400
84 1,2-Dichlorobenzene	146	13.137	13.136	(1.036)	2462078	200.000	200
83 n-Butylbenzene	91	13.137	13.136	(1.036)	6555904	200.000	180
85 Hexachloroethane	117	13.455	13.453	(1.059)	985337	200.000	180
86 1,2-Dibromo-3-chloropropane	75	14.007	14.006	(1.105)	221119	200.000	180
87 1,2,4-Trichlorobenzene	180	14.920	14.920	(1.177)	1507611	200.000	200
88 Hexachlorobutadiene	225	15.132	15.130	(1.193)	464780	200.000	160
89 Naphthalene	128	15.185	15.183	(1.197)	3434733	200.000	200
90 1,2,3-Trichlorobenzene	180	15.450	15.449	(1.216)	1297395	200.000	190

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.

YD
11/26/02



Data File: V5E1625.D
Report Date: 26-Nov-2002 14:32

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\V5E1625.D
Lab Smp Id: V5S1115F   Client Smp ID: VSTD0055C
Inj Date : 15-NOV-2002 21:04
Operator : YD   Inst ID: v5.i
Smp Info : 8260H,V5S1115F,VSTD0055C
Misc Info : ,1,1
Comment   :
Method   : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\v58260H.m
Meth Date : 26-Nov-2002 12:06 mtl   Quant Type: ISTD
Cal Date : 15-NOV-2002 21:04   Cal File: V5E1625.D
Als bottle: 22   Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.817	1.816	(0.290)	34902	5.00000	4(a)
2 Chloromethane	50	2.004	2.003	(0.320)	39156	5.00000	4(a)
3 Vinyl Chloride	62	2.151	2.151	(0.343)	30132	5.00000	4(a)
4 Bromomethane	94	2.516	2.506	(0.401)	14193	5.00000	4(a)
5 Chloroethane	64	2.644	2.624	(0.422)	31497	5.00000	4(a)
6 Trichlorofluoromethane	101	2.900	2.899	(0.463)	31346	5.00000	3(a)
8 1,1-Dichloroethene	96	3.441	3.431	(0.549)	14374	5.00000	4(a)
9 Acetone	43	3.441	3.441	(0.553)	38723	5.00000	7
111 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.441	3.441	(0.549)	31439	5.00000	4(a)
10 Iodomethane	142	3.599	3.585	(0.574)	39387	5.00000	4(a)
11 Carbon Disulfide	76	3.468	3.498	(0.582)	45270	5.00000	4(a)
112 Methyl Acetate	43	3.776	3.776	(0.603)	30274	5.00000	4(a)
14 Methylene Chloride	84	3.924	3.914	(0.628)	25427	5.00000	5
118 Acrylonitrile	53	4.111	4.115	(0.656)	25481	25.0000	21
16 trans-1,2-Dichloroethene	96	4.140	4.140	(0.661)	15679	5.00000	4(a)

Data File: V5E1625.D
Report Date: 26-Nov-2002 14:32

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
17 Methyl tert-butyl ether	73	4.140	4.160	(0.664)	54526	5.00000	4(a)
18 1,1-Dichloroethane	63	4.574	4.563	(0.730)	35988	5.00000	4(a)
19 Vinyl acetate	43	4.613	4.613	(0.736)	56048	5.00000	4(a)
23 cis-1,2-Dichloroethene	96	5.129	5.134	(0.819)	19619	5.00000	4(a)
22 2-Butanone	43	5.145	5.134	(0.821)	16656	5.00000	4(a)
29 Tetrahydrofuran	72	5.430	5.134	(0.868)	3831	5.00000	5(T)
24 2,2-Dichloropropane	77	5.135	5.134	(0.818)	13171	5.00000	4(a)
27 Bromochloromethane	128	5.771	5.371	(0.857)	10873	5.00000	4(a)
28 Chloroform	83	5.440	5.440	(0.868)	36367	5.00000	4(a)
$ 30 Dibromofluoromethane	113	5.398	5.597	(0.893)	16339	5.00000	4(a)
31 1,1,1-Trichloroethane	97	5.637	5.636	(0.899)	19316	5.00000	4(a)
113 Cyclohexane	56	5.704	5.703	(0.910)	26477	5.00000	4(a)
32 1,1-Dichloropropene	110	5.799	5.794	(0.926)	6767	5.00000	4(a)
33 Carbon Tetrachloride	117	5.804	5.804	(0.926)	16538	5.00000	4(a)
$ 35 1,2-Dichloroethane-d4	102	5.932	5.932	(0.947)	4030	5.00000	4(a)
37 Benzene	78	6.001	6.001	(0.958)	78915	5.00000	4(a)
36 1,2-Dichloroethane	62	6.011	6.001	(0.959)	31803	5.00000	5
* 38 Fluorobenzene	96	6.267	6.267	(1.000)	692998	50.0000	
39 Trichloroethene	130	6.641	6.641	(1.060)	16260	5.00000	4(a)
114 Methylcyclohexane	83	6.848	6.848	(1.093)	34200	5.00000	4(a)
40 1,2-Dichloropropane	63	6.868	6.867	(1.096)	24664	5.00000	4(T)
42 Dibromomethane	93	6.988	6.988	(1.115)	16212	5.00000	5
43 Bromodichloromethane	83	7.143	7.143	(1.140)	30060	5.00000	5
45 cis-1,3-Dichloropropene	75	7.608	7.606	(1.214)	39346	5.00000	5
44 4-Methyl-2-pentanone	43	7.754	7.753	(1.237)	34919	5.00000	4(a)
$ 47 Toluene-d8	98	7.893	7.901	(0.853)	54838	5.00000	4(a)
46 Toluene	91	7.970	7.970	(1.272)	76294	5.00000	5
49 trans-1,3-Dichloropropene	75	8.187	8.187	(1.306)	38161	5.00000	5
51 1,1,2-Trichloroethane	97	8.384	8.384	(1.338)	21582	5.00000	5
53 Tetrachloroethene	164	8.571	8.571	(0.904)	13861	5.00000	4(a)
52 1,3-Dichloropropane	76	8.571	8.571	(0.904)	40231	5.00000	5
54 2-Hexanone	43	8.650	8.649	(0.913)	24477	5.00000	4(a)
55 Dibromochloromethane	129	8.827	8.827	(0.931)	21383	5.00000	5(T)
56 1,2-Dibromoethane	107	8.966	8.966	(0.946)	22360	5.00000	5(T)
* 57 Chlorobenzene-d5	117	9.477	9.476	(1.000)	494179	50.0000	
118 1-Chlorohexane	91	9.677	9.476	(1.090)	73194	5.00000	4(a)
58 Chlorobenzene	112	9.518	9.516	(1.004)	50170	5.00000	5
59 1,1,1,2-Tetrachloroethane	131	9.606	9.604	(1.014)	14902	5.00000	5
60 Ethylbenzene	106	9.634	9.634	(1.017)	23830	5.00000	4(a)
61 m,p-Xylene	106	9.772	9.772	(1.031)	59202	10.0000	9
62 o-Xylene	106	10.226	10.225	(1.079)	20695	5.00000	5
64 Styrene	104	10.315	10.315	(1.088)	88297	5.00000	5
65 Bromoform	173	10.452	10.451	(1.103)	15663	5.00000	5
66 Isopropylbenzene	105	10.658	10.656	(1.125)	66313	5.00000	4(a)
$ 68 Bromofluorobenzene	95	10.856	10.855	(1.143)	34478	5.00000	4(a)
69 1,1,2,2-Tetrachloroethane	83	10.993	10.993	(0.893)	40081	5.00000	5
70 Bromobenzene	156	11.003	11.032	(0.902)	27546	5.00000	5

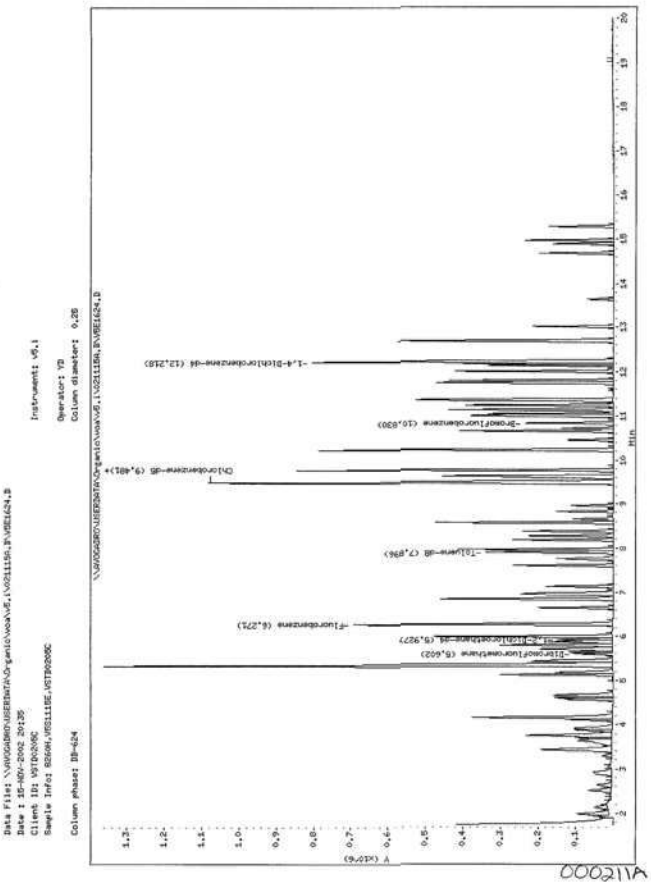
Data File: V5E1625.D
Report Date: 26-Nov-2002 14:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
	71 1,2,3-Trichloropropane	75	11.052	11.052	(0.904)	43691	5.00000	5	
	72 n-Propylbenzene	120	11.141	11.140	(0.911)	19305	5.00000	5	
	73 2-Chlorotoluene	126	11.249	11.249	(0.920)	19480	5.00000	5	
	74 1,3,5-Trimethylbenzene	105	11.348	11.347	(0.928)	60014	5.00000	5	
	75 4-Chlorotoluene	126	11.377	11.377	(0.931)	19352	5.00000	5	
	76 tert-Butylbenzene	119	11.741	11.751	(0.961)	63110	5.00000	4(a)	
	77 1,2,4-Trimethylbenzene	105	11.801	11.800	(0.965)	61611	5.00000	5	
	78 sec-Butylbenzene	105	12.007	12.007	(0.982)	74837	5.00000	4(a)	
	80 1,3-Dichlorobenzene	146	12.145	12.145	(0.994)	38839	5.00000	5	
	79 4-Isopropyltoluene	119	12.185	12.184	(0.997)	55304	5.00000	4(a)	
*	81 1,4-Dichlorobenzene-d4	152	12.224	12.224	(1.000)	233373	50.0000		
	82 1,4-Dichlorobenzene	146	12.253	12.253	(1.002)	40411	5.00000	5	
	83 n-Butylbenzene	91	12.687	12.686	(1.038)	56644	5.00000	4(a)	
	84 1,2-Dichlorobenzene	146	12.706	12.706	(1.039)	37893	5.00000	5	
M	63 Xylene (Total)	106				90098	15.0000	14	
	86 1,2-Dibromo-3-chloropropane	75	13.652	13.651	(1.117)	5265	5.00000	5	
	87 1,2,4-Trichlorobenzene	180	14.685	14.685	(1.201)	14715	5.00000	4(a)	
	88 Hexachlorobutadiene	225	14.902	14.902	(1.219)	7207	5.00000	4(a)	
	89 Naphthalene	128	14.981	14.980	(1.226)	53138	5.00000	5	
	90 1,2,3-Trichlorobenzene	180	15.284	15.286	(1.251)	14110	5.00000	4(a)	

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

11/16/02



Data File: V5E1624.D
Report Date: 26-Nov-2002 14:32

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\V5E1624.D
Lab Smp Id: V5S1115E Client Smp ID: VSTD020SC
Inj Date : 15-NOV-2002 20:35
Operator : YD Inst ID: v5.i
Smp Info : 8260H,V5S1115E,VSTD020SC
Misc Info : ,1,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\v8260H.m
Meth Date : 26-Nov-2002 12:06 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 20:35 Cal File: V5E1624.D
Als bottle: 21 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
	1 Dichlorodifluoromethane	85	1.811	1.816	(0.289)	81345	20.0000	19	
	2 Chloromethane	50	1.998	2.003	(0.319)	149601	20.0000	19	
	3 Vinyl Chloride	62	2.146	2.151	(0.342)	114392	20.0000	19	
	4 Bromomethane	94	2.500	2.506	(0.399)	78059	20.0000	21	
	5 Chloroethane	64	2.628	2.634	(0.419)	64354	20.0000	20	
	6 Trichlorofluoromethane	101	2.894	2.899	(0.461)	74039	20.0000	18	
	8 1,1-Dichloroethene	96	3.428	3.431	(0.546)	73119	20.0000	19	
	9 Acetone	43	3.436	3.441	(0.548)	54637	20.0000	22	
	111 1,1,2-Trichlo-1,2,2-trifluoro	101	3.436	3.441	(0.548)	65366	20.0000	19	
	10 Iodomethane	142	3.593	3.589	(0.573)	103868	20.0000	19	
	11 Carbon Disulfide	76	3.642	3.658	(0.581)	235543	20.0000	20	
	112 Methyl Acetate	43	3.770	3.778	(0.601)	135362	20.0000	20	
	14 Methylene Chloride	84	3.918	3.934	(0.625)	105337	20.0000	20	
	116 Acrylonitrile	53	4.105	4.110	(0.655)	117643	100.000	95	
	16 trans-1,2-Dichloroethene	96	4.154	4.160	(0.662)	78748	20.0000	20	

Data File: V5E1624.D
Report Date: 26-Nov-2002 14:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)	
	17 Methyl tert-butyl ether	73	4.154	4.160	(0.662)	270294	20.0000	20	
	18 1,1-Dichloroethane	63	4.568	4.563	(0.728)	167642	20.0000	20	
	19 Vinyl acetate	43	4.607	4.613	(0.735)	284672	20.0000	19	
	23 cis-1,2-Dichloroethene	96	5.129	5.134	(0.818)	87749	20.0000	20	
	22 2-Butanone	43	5.129	5.134	(0.818)	73828	20.0000	19	
	29 Tetrahydrofuran	72	5.424	5.134	(0.865)	17181	20.0000	21(Y)	
	24 2,2-Dichloropropane	77	5.139	5.134	(0.819)	67198	20.0000	21	
	27 Bromochloromethane	128	5.365	5.371	(0.856)	48245	20.0000	20	
	28 Chloroform	83	5.444	5.440	(0.868)	155461	20.0000	20	
$	30 Dibromofluoromethane	113	5.592	5.597	(0.892)	74174	20.0000	19	
	31 1,1,1-Trichloroethane	97	5.631	5.636	(0.898)	94450	20.0000	20	
	113 Cyclohexane	56	5.710	5.705	(0.911)	137190	20.0000	19	
	32 1,1-Dichloropropene	110	5.799	5.794	(0.925)	33561	20.0000	20	
	33 Carbon Tetrachloride	117	5.808	5.804	(0.926)	79234	20.0000	19	
$	35 1,2-Dichloroethane-d4	102	5.927	5.912	(0.945)	17230	20.0000	18	
	37 Benzene	78	5.995	6.001	(0.956)	353524	20.0000	20	
	36 1,2-Dichloroethane	62	6.005	6.001	(0.958)	133307	20.0000	20	
*	38 Fluorobenzene	96	6.271	6.267	(1.000)	479838	50.0000		
	39 Trichloroethene	130	6.648	6.641	(1.060)	75921	20.0000	20	
	114 Methylcyclohexane	83	6.852	6.848	(1.093)	121371	20.0000	19	
	40 1,2-Dichloropropane	63	6.862	6.867	(1.094)	106855	20.0000	20	
	42 Dibromomethane	93	6.980	6.986	(1.113)	67609	20.0000	20	
	43 Bromodichloromethane	83	7.138	7.143	(1.138)	126901	20.0000	20	
	45 cis-1,3-Dichloropropene	75	7.600	7.606	(1.212)	149828	20.0000	20	
	46 4-Methyl-2-pentanone	43	7.748	7.753	(1.236)	155395	20.0000	19	
$	47 Toluene-d8	98	7.896	7.901	(0.833)	245509	20.0000	19	
	48 Toluene	91	7.965	7.970	(1.270)	338451	20.0000	20	
	49 trans-1,3-Dichloropropene	75	8.101	8.107	(1.305)	159041	20.0000	20	
	51 1,1,2-Trichloroethane	97	8.388	8.384	(1.338)	84979	20.0000	20	
	53 Tetrachloroethene	164	8.565	8.571	(0.903)	57923	20.0000	20	
	52 1,3-Dichloropropane	76	8.575	8.571	(0.904)	166751	20.0000	21	
	54 2-Hexanone	43	8.644	8.649	(0.912)	114306	20.0000	19	
	55 Dibromochloromethane	129	8.831	8.827	(0.931)	96223	20.0000	21	
	56 1,2-Dibromoethane	107	8.959	8.964	(0.945)	92603	20.0000	21	
*	57 Chlorobenzene-d5	117	9.481	9.476	(1.000)	481871	50.0000		
	115 1-Chlorohexane	91	9.471	9.476	(0.999)	104689	20.0000	20	
	58 Chlorobenzene	112	9.511	9.516	(1.003)	208485	20.0000	21	
	59 1,1,1,2-Tetrachloroethane	131	9.599	9.604	(1.012)	79624	20.0000	21	
	60 Ethylbenzene	106	9.629	9.634	(1.016)	104348	20.0000	20	
	61 m,p-Xylene	106	9.767	9.772	(1.030)	259354	40.0000	41	
	62 o-Xylene	106	10.229	10.225	(1.079)	131019	20.0000	20	
	64 Styrene	104	10.239	10.235	(1.080)	233850	20.0000	20	
	65 Bromoform	173	10.456	10.451	(1.103)	67199	20.0000	20	
	66 Isopropylbenzene	105	10.653	10.658	(1.124)	311774	20.0000	20	
$	68 Bromofluorobenzene	95	10.830	10.835	(1.142)	194856	20.0000	19	
	69 1,1,2,2-Tetrachloroethane	83	10.987	10.993	(0.899)	159724	20.0000	21	
	70 Bromobenzene	156	11.017	11.022	(0.902)	97790	20.0000	21	

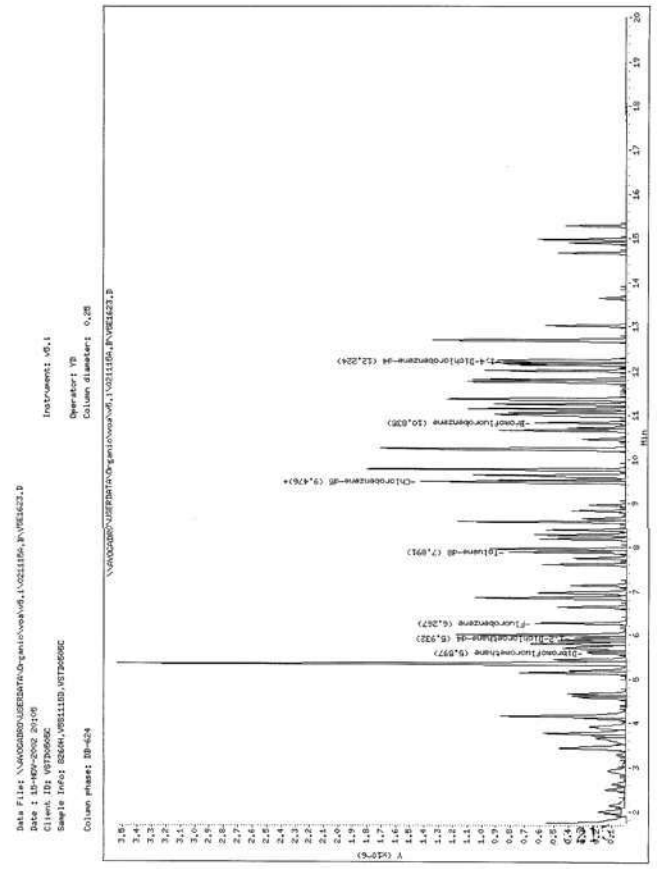
Data File: V5E1624.D
Report Date: 26-Nov-2002 14:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
71	1,2,3-Trichloropropane	75	11.048	11.052	(0.904)	179579	20.0000	20
72	n-Propylbenzene	120	11.145	11.140	(0.912)	83910	20.0000	20
73	3-Chlorotoluene	126	11.243	11.249	(0.920)	84264	20.0000	21
74	1,3,5-Trimethylbenzene	105	11.352	11.347	(0.929)	270795	20.0000	20
75	4-Chlorotoluene	126	11.371	11.377	(0.931)	85414	20.0000	21
76	tert-Butylbenzene	119	11.746	11.751	(0.961)	291882	20.0000	20
77	1,2,4-Trimethylbenzene	105	11.805	11.800	(0.966)	276962	20.0000	20
78	sec-Butylbenzene	105	12.011	12.007	(0.983)	354620	20.0000	20
80	1,3-Dichlorobenzene	146	12.149	12.145	(0.994)	167095	20.0000	21
79	4-Isopropyltoluene	119	12.189	12.184	(0.998)	264778	20.0000	21
* 81	1,4-Dichlorobenzene-d4	152	12.218	12.224	(1.000)	235550	50.0000	
82	1,4-Dichlorobenzene	146	12.248	12.253	(1.002)	173509	20.0000	21
83	n-Butylbenzene	91	12.681	12.686	(1.038)	284868	20.0000	20
84	1,2-Dichlorobenzene	146	12.701	12.706	(1.039)	160658	20.0000	20
M 63	Xylene (Total)	106				390373	60.0000	61
86	1,2-Dibromo-3-chloropropane	75	13.646	13.651	(1.117)	23460	20.0000	20
87	1,2,4-Trichlorobenzene	180	14.680	14.685	(1.201)	67504	20.0000	19
88	Hexachlorobutadiene	225	14.896	14.902	(1.219)	38556	20.0000	20
89	Naphthalene	128	14.975	14.980	(1.226)	216650	20.0000	19
90	1,2,3-Trichlorobenzene	180	15.280	15.286	(1.251)	60480	20.0000	19

QC Flag Legend

T - Target compound detected outside RT window.

11/26/02



Data File: V5E1623.D
Report Date: 26-Nov-2002 14:32

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\V5E1623.D
Lab Smp Id: V5S1115D Client Smp ID: VSTD050SC
Inj Date : 15-NOV-2002 20:05
Operator : YD Inst ID: v5.i
Smp Info : 8260H,V5S1115D,VSTD050SC
Misc Info : ,1,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\v58260H.m
Meth Date : 26-Nov-2002 12:06 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 20:05 Cal File: V5E1623.D
Als bottle: 20 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.816	1.816	(0.290)	191048	50.0000	50
2	Chloromethane	50	2.003	2.003	(0.320)	362123	50.0000	49
3	Vinyl Chloride	62	2.151	2.151	(0.343)	274176	50.0000	49
4	Bromomethane	94	2.506	2.506	(0.400)	180396	50.0000	53
5	Chloroethane	64	2.634	2.634	(0.420)	154183	50.0000	53
6	Trichlorofluoromethane	101	2.899	2.899	(0.463)	189225	50.0000	48
8	1,1-Dichloroethene	96	3.431	3.431	(0.547)	178548	50.0000	50
9	Acetone	43	3.441	3.441	(0.549)	123178	50.0000	56
111	1,1,2-Trichlo-1,2,2-trifluoro	101	3.441	3.441	(0.549)	155872	50.0000	49
10	Iodomethane	142	3.589	3.589	(0.573)	266802	50.0000	51
11	Carbon Disulfide	76	3.658	3.658	(0.584)	543806	50.0000	50
112	Methyl Acecate	43	3.778	3.776	(0.602)	320141	50.0000	52
14	Methylene Chloride	84	3.914	3.914	(0.624)	291734	50.0000	52
116	Acrylonitrile	53	4.110	4.110	(0.656)	310155	250.000	270
16	trans-1,2-Dichloroethene	96	4.160	4.160	(0.664)	184641	50.0000	51

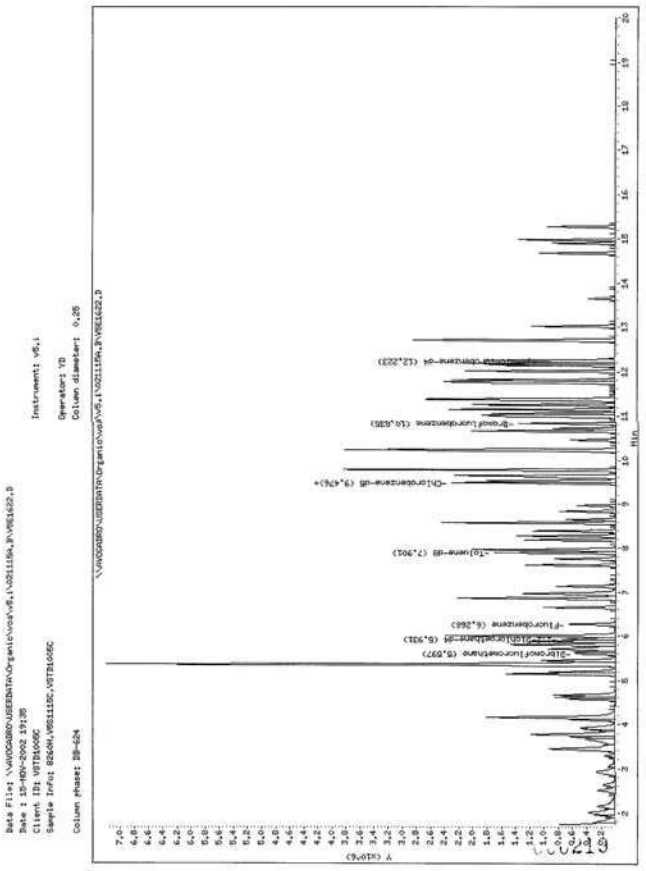
Data File: V5E1623.D
Report Date: 26-Nov-2002 14:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
17	Methyl tert-butyl ether	73	4.160	4.160	(0.664)	635152	50.0000	51
18	1,1-Dichloroethane	63	4.563	4.563	(0.728)	396254	50.0000	51
19	Vinyl acetate	43	4.613	4.613	(0.736)	704705	50.0000	50
23	cis-1,2-Dichloroethene	96	5.134	5.134	(0.819)	209433	50.0000	52
22	2-Butanone	43	5.134	5.134	(0.819)	195156	50.0000	52
29	Tetrahydrofuran	72	5.134	5.134	(0.819)	37282	50.0000	50
24	2,2-Dichloropropane	77	5.134	5.134	(0.819)	152398	50.0000	52
27	Bromochloromethane	128	5.371	5.371	(0.857)	110013	50.0000	51
28	Chloroform	83	5.440	5.440	(0.868)	359018	50.0000	51
S 30	Dibromofluoromethane	113	5.597	5.597	(0.893)	187410	50.0000	52
31	1,1,1-Trichloroethane	97	5.636	5.636	(0.899)	319464	50.0000	51
113	Cyclohexane	56	5.705	5.705	(0.910)	321984	50.0000	50
32	1,1-Dichloropropene	110	5.794	5.794	(0.925)	77423	50.0000	50
33	Carbon Tetrachloride	117	5.804	5.804	(0.926)	187441	50.0000	50
S 35	1,2-Dichloroethane-d4	102	5.932	5.932	(0.947)	45749	50.0000	52
37	Benzene	78	6.001	6.001	(0.958)	825366	50.0000	51
36	1,2-Dichloroethane	62	6.001	6.001	(0.958)	312258	50.0000	52
* 38	Fluorobenzene	96	6.267	6.267	(1.000)	614021	50.0000	
39	Trichloroethene	130	6.641	6.641	(1.060)	177091	50.0000	51
114	Methylcyclohexane	83	6.848	6.848	(1.093)	284868	50.0000	49
40	1,2-Dichloropropane	63	6.867	6.867	(1.096)	244209	50.0000	52
42	Dibromomethane	93	6.986	6.986	(1.115)	156668	50.0000	52
43	Bromodichloromethane	83	7.143	7.143	(1.140)	293617	50.0000	52
45	cis-1,3-Dichloropropene	75	7.606	7.606	(1.214)	384566	50.0000	51
46	4-Methyl-2-pentanone	43	7.753	7.753	(1.237)	375218	50.0000	50
S 47	Toluene-d8	98	7.901	7.901	(0.834)	825231	50.0000	53
48	Toluene	91	7.970	7.970	(1.272)	758161	50.0000	51
49	trans-1,3-Dichloropropene	75	8.187	8.187	(1.306)	359786	50.0000	52
51	1,1,2-Trichloroethane	97	8.384	8.384	(1.338)	193642	50.0000	52
53	Tetrachloroethene	164	8.571	8.571	(0.904)	135439	50.0000	51
52	1,3-Dichloropropane	76	8.571	8.571	(0.904)	378185	50.0000	53
54	2-Hexanone	43	8.649	8.649	(0.913)	282431	50.0000	51
55	Dibromochloromethane	129	8.827	8.827	(0.931)	218185	50.0000	52
56	1,2-Dibromoethane	107	8.964	8.964	(0.946)	211400	50.0000	52
* 57	Chlorobenzene-d5	117	9.476	9.476	(1.000)	438979	50.0000	
115	1-Chlorohexane	91	9.476	9.476	(1.000)	240188	50.0000	50
58	Chlorobenzene	112	9.516	9.516	(1.004)	475924	50.0000	52
59	1,1,1,2-Tetrachloroethane	131	9.606	9.604	(1.014)	179030	50.0000	52
60	Ethylbenzene	106	9.634	9.634	(1.017)	214199	50.0000	51
61	m,p-Xylene	106	9.772	9.772	(1.031)	592175	100.000	100
62	o-Xylene	106	10.225	10.225	(1.079)	296367	50.0000	51
64	Styrene	104	10.235	10.235	(1.080)	538413	50.0000	51
65	Bromoform	173	10.451	10.451	(1.103)	159100	50.0000	52
66	Isopropylbenzene	105	10.658	10.658	(1.125)	634901	50.0000	50
S 68	Bromofluorobenzene	95	10.835	10.835	(1.143)	254935	50.0000	51
69	1,1,2,2-Tetrachloroethane	83	10.993	10.993	(0.899)	377148	50.0000	53
70	Bromobenzene	156	11.022	11.022	(0.902)	224838	50.0000	50

Data File: V5E1623.D
Report Date: 26-Nov-2002 14:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	71 1,2,3-Trichloropropane	75	11.052	11.052	(0.904)	434822	50.0000	51
	72 n-Propylbenzene	120	11.140	11.140	(0.911)	192125	50.0000	49
	73 2-Chlorotoluene	126	11.249	11.249	(0.920)	187608	50.0000	49
	74 1,3,5-Trimethylbenzene	105	11.347	11.347	(0.928)	618046	50.0000	50
	75 4-Chlorotoluene	126	11.377	11.377	(0.931)	193468	50.0000	50
	76 tert-Butylbenzene	119	11.751	11.751	(0.961)	660442	50.0000	49
	77 1,2,4-Trimethylbenzene	105	11.800	11.800	(0.965)	651344	50.0000	51
	78 sec-Butylbenzene	105	12.007	12.007	(0.982)	801462	50.0000	50
	80 1,3-Dichlorobenzene	146	12.145	12.145	(0.994)	392712	50.0000	51
	79 4-Isopropyltoluene	119	12.184	12.184	(0.997)	606495	50.0000	50
*	81 1,4-Dichlorobenzene-d4	152	12.224	12.224	(1.000)	223491	50.0000	
	82 1,4-Dichlorobenzene	146	12.253	12.253	(1.002)	401627	50.0000	52
	83 n-Butylbenzene	91	12.686	12.686	(1.038)	670266	50.0000	50
	84 1,2-Dichlorobenzene	146	12.706	12.706	(1.039)	382855	50.0000	52
M	63 Xylene (Total)	106				888543	150.000	150
	86 1,2-Dibromo-3-chloropropane	75	13.651	13.651	(1.117)	61312	50.0000	56
	87 1,2,4-Trichlorobenzene	180	14.685	14.685	(1.201)	170560	50.0000	49
	88 Hexachlorobutadiene	225	14.902	14.902	(1.219)	91415	50.0000	49
	89 Naphthalene	128	14.980	14.980	(1.226)	559124	50.0000	51
	90 1,2,3-Trichlorobenzene	180	15.296	15.296	(1.251)	151518	50.0000	49

KD 11/26/02



Data File: V5E1622.D
Report Date: 26-Nov-2002 14:32

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\V5E1622.D
Lab Smp Id: V5S1115C Client Smp ID: VSTD1005C
Inj Date : 15-NOV-2002 19:35
Operator : YD Inst ID: v5.i
Smp Info : B260H,V5S1115C,VSTD1005C
Misc Info : ,1,4
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\v58260H.m
Meth Date : 26-Nov-2002 12:06 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 19:35 Cal File: V5E1622.D
Als bottle: 19 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	1 Dichlorodifluoromethane	85	1.826	1.816	(0.291)	410203	100.000	97
	2 Chloromethane	50	2.013	2.003	(0.321)	798676	100.000	99
	3 Vinyl Chloride	62	2.151	2.151	(0.343)	597063	100.000	98
	4 Bromomethane	94	2.515	2.506	(0.401)	352578	100.000	99
	5 Chloroethane	64	2.633	2.634	(0.420)	315055	100.000	100
	6 Trichlorofluoromethane	101	2.899	2.899	(0.462)	433189	100.000	100
	8 1,1-Dichloroethene	96	3.430	3.431	(0.547)	387317	100.000	100
	9 Acetone	43	3.440	3.441	(0.548)	238566	100.000	110
	121 1,1,2-Trichlo-1,2,2-trifluoro	101	3.450	3.441	(0.550)	345840	100.000	99
	10 Iodomethane	142	3.598	3.589	(0.573)	523125	100.000	99
	11 Carbon Disulfide	76	3.657	3.658	(0.583)	1175641	100.000	100
	112 Methyl Acetate	43	3.775	3.776	(0.602)	660159	100.000	100
	14 Methylene Chloride	84	3.923	3.914	(0.625)	529131	100.000	100
	116 Acrylonitrile	53	4.110	4.110	(0.655)	641947	500.000	540
	16 trans-1,2-Dichloroethene	96	4.159	4.160	(0.663)	398278	100.000	100

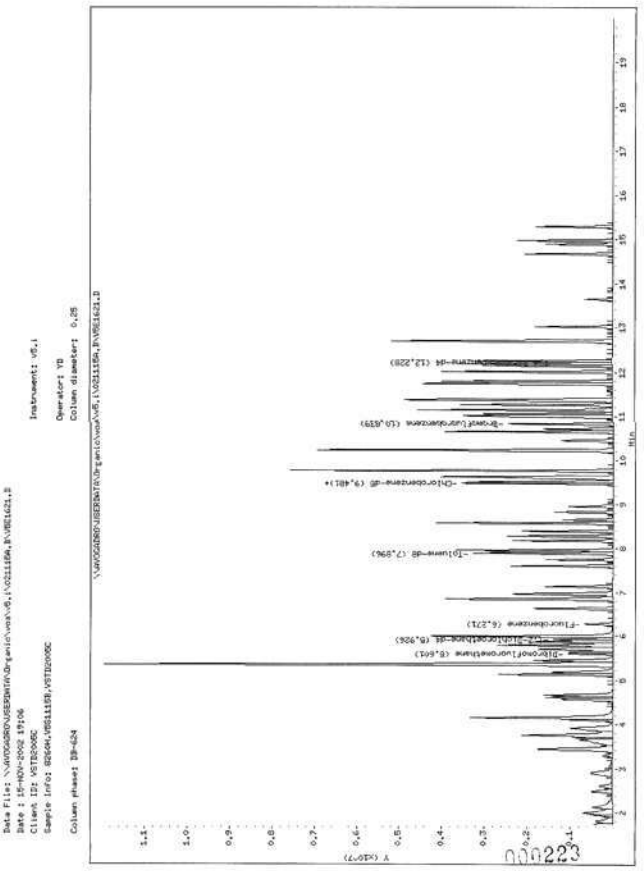
Data File: V5E1622.D
Report Date: 26-Nov-2002 14:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	17 Methyl tert-butyl ether	73	4.159	4.160	(0.663)	1356437	100.000	100
	18 1,1-Dichloroethane	63	4.573	4.563	(0.729)	859799	100.000	100
	19 Vinyl acetate	43	4.612	4.613	(0.735)	1546218	100.000	100
	23 cis-1,2-Dichloroethene	96	5.134	5.134	(0.818)	442923	100.000	100
	22 2-Butanone	43	5.134	5.134	(0.818)	413947	100.000	100
	29 Tetrahydrofuran	72	5.134	5.134	(0.818)	82435	100.000	100
	24 2,2-Dichloropropane	77	5.144	5.134	(0.820)	322691	100.000	100
	27 Bromochloromethane	128	5.370	5.371	(0.856)	236185	100.000	100
	28 Chloroform	83	5.439	5.440	(0.867)	770316	100.000	100
$	30 Dibromofluoromethane	113	5.597	5.597	(0.892)	386629	100.000	100
	31 1,1,1-Trichloroethane	97	5.636	5.636	(0.898)	470744	100.000	100
	113 Cyclohexane	56	5.705	5.705	(0.909)	697172	100.000	99
	32 1,1-Dichloropropene	110	5.803	5.794	(0.925)	170605	100.000	100
	33 Carbon Tetrachloride	117	5.803	5.804	(0.925)	411954	100.000	100
$	35 1,2-Dichloroethane-d4	102	5.931	5.932	(0.945)	95679	100.000	100
	37 Benzene	78	6.000	6.001	(0.956)	1773633	100.000	100
	36 1,2-Dichloroethane	62	6.010	6.001	(0.958)	651184	100.000	100
*	38 Fluorobenzene	96	6.276	6.267	(1.000)	668398	50.0000	
	39 Trichloroethene	130	6.640	6.641	(1.058)	378022	100.000	100
	114 Methylcyclohexane	83	6.857	6.848	(1.093)	627747	100.000	99
	40 1,2-Dichloropropane	63	6.867	6.867	(1.094)	517991	100.000	100
	42 Dibromomethane	93	6.985	6.986	(1.113)	329185	100.000	100
	43 Bromodichloromethane	83	7.142	7.143	(1.138)	619290	100.000	100
	45 cis-1,3-Dichloropropene	75	7.605	7.606	(1.212)	822873	100.000	100
	46 4-Methyl-2-pentanone	43	7.753	7.753	(1.235)	826376	100.000	100
$	47 Toluene-d8	98	7.901	7.901	(0.833)	1311472	100.000	100
	48 Toluene	91	7.970	7.970	(1.270)	1624456	100.000	100
	49 trans-1,3-Dichloropropene	75	8.186	8.187	(1.304)	753615	100.000	100
	51 1,1,2-Trichloroethane	97	8.383	8.384	(1.336)	458904	100.000	100
	53 Tetrachloroethene	164	8.570	8.571	(0.903)	299469	100.000	100
	52 1,3-Dichloropropane	76	8.570	8.571	(0.903)	795302	100.000	100
	54 2-Hexanone	43	8.649	8.649	(0.912)	624761	100.000	100
	55 Dibromochloromethane	129	8.826	8.827	(0.930)	471187	100.000	100
	56 1,2-Dibromoethane	107	8.964	8.964	(0.945)	448250	100.000	100
*	57 Chlorobenzene-d5	117	9.486	9.474	(1.000)	484701	50.0000	
	115 1-Chlorohexane	91	9.476	9.474	(0.999)	533319	100.000	100
	58 Chlorobenzene	112	9.515	9.514	(1.003)	998236	100.000	100
	59 1,1,1,2-Tetrachloroethane	131	9.604	9.604	(1.012)	383599	100.000	100
	60 Ethylbenzene	106	9.633	9.634	(1.016)	516902	100.000	100
	61 m,p-Xylene	106	9.771	9.772	(1.030)	1283143	200.000	200
	62 o-Xylene	106	10.224	10.225	(1.078)	652892	100.000	100
	64 Styrene	104	10.234	10.235	(1.079)	1162689	100.000	100
	65 Bromoform	173	10.431	10.451	(1.102)	339767	100.000	100
	66 Isopropylbenzene	105	10.657	10.658	(1.124)	1551864	100.000	100
$	68 Bromofluorobenzene	95	10.835	10.835	(1.142)	558229	100.000	100
	69 1,1,2,2-Tetrachloroethane	83	10.992	10.993	(0.899)	774807	100.000	100
	70 Bromobenzene	156	11.022	11.022	(0.902)	481847	100.000	100

Data File: V5E1622.D
Report Date: 26-Nov-2002 14:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	71 1,2,3-Trichloropropane	75	11.051	11.052	(0.904)	933027	100.000	100
	72 n-Propylbenzene	120	11.140	11.140	(0.911)	427931	100.000	99
	73 2-Chlorotoluene	126	11.248	11.249	(0.920)	415555	100.000	100
	74 1,3,5-Trimethylbenzene	105	11.357	11.347	(0.929)	1364470	100.000	100
	75 4-Chlorotoluene	126	11.376	11.377	(0.931)	415586	100.000	100
	76 tert-Butylbenzene	119	11.750	11.751	(0.961)	1496169	100.000	100
	77 1,2,4-Trimethylbenzene	105	11.800	11.800	(0.965)	1416340	100.000	100
	78 sec-Butylbenzene	105	12.006	12.007	(0.982)	1768850	100.000	100
	80 1,3-Dichlorobenzene	146	12.144	12.145	(0.994)	847403	100.000	100
	79 4-Isopropyltoluene	119	12.184	12.184	(0.997)	1334623	100.000	100
*	81 1,4-Dichlorobenzene-d4	152	12.223	12.224	(1.000)	242433	50.0000	
	82 1,4-Dichlorobenzene	146	12.252	12.253	(1.002)	848891	100.000	100
	83 n-Butylbenzene	91	12.686	12.686	(1.038)	1466152	100.000	100
	84 1,2-Dichlorobenzene	146	12.705	12.706	(1.039)	816433	100.000	100
M	43 Xylene (Total)	106				1936036	300.000	300
	86 1,2-Dibromo-3-chloropropane	75	13.641	13.651	(1.116)	120569	100.000	110
	87 1,2,4-Trichlorobenzene	180	14.684	14.685	(1.201)	390656	100.000	100
	88 Hexachlorobutadiene	225	14.901	14.902	(1.219)	203970	100.000	100
	89 Naphthalene	128	14.980	14.980	(1.226)	1223323	100.000	100
	90 1,2,3-Trichlorobenzene	180	15.285	15.286	(1.251)	343950	100.000	100

XD 11/26/02



Data File: V5E1621.D
Report Date: 26-Nov-2002 14:32

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\V5E1621.D
Lab Smp Id: V5S1115B Client Smp ID: VSTD2005C
Inj Date : 15-NOV-2002 19:06
Operator : YD Inst ID: v5.i
Smp Info : 8260H,V5S1115B,VSTD2005C
Misc Info : ,1,5
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\v58260H.m
Meth Date : 26-Nov-2002 12:06 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 19:06 Cal File: V5E1621.D
Als bottle: 18 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	1 Dichlorodifluoromethane	85	1.811	1.816	(0.289)	817459	200.000	200
	2 Chloromethane	50	2.008	2.001	(0.320)	1540783	200.000	200
	3 Vinyl Chloride	62	2.145	2.151	(0.342)	1145991	200.000	200
	4 Bromomethane	94	2.500	2.506	(0.399)	675433	200.000	200
	5 Chloroethane	64	2.618	2.634	(0.417)	564332	200.000	200
	6 Trichlorofluoromethane	101	2.884	2.899	(0.460)	815577	200.000	200
	8 1,1-Dichloroethene	96	3.425	3.431	(0.546)	736205	200.000	200
	9 Acetone	43	3.435	3.441	(0.548)	398113	200.000	200(A)
	111 1,1,2-Trichlo-1,2,2-trifluoro	101	3.435	3.441	(0.548)	859775	200.000	200
	10 Iodomethane	142	3.593	3.589	(0.573)	1004877	200.000	200
	11 Carbon Disulfide	76	3.642	3.658	(0.581)	2183466	200.000	200
	112 Methyl Acetate	43	3.770	3.776	(0.601)	1188774	200.000	200
	14 Methylene Chloride	84	3.918	3.914	(0.625)	964350	200.000	200
	116 Acrylonitrile	53	4.105	4.110	(0.655)	1040213	1000.00	1000
	16 trans-1,2-Dichloroethene	96	4.154	4.160	(0.662)	731071	200.000	200

Data File: V5E1621.D
Report Date: 26-Nov-2002 14:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	17 Methyl tert-butyl ether	73	4.154	4.160	(0.662)	2496406	200.000	200
	18 1,1-Dichloroethane	63	4.568	4.563	(0.728)	1557965	200.000	200(A)
	19 Vinyl acetate	43	4.607	4.613	(0.735)	2812701	200.000	200
	23 cis-1,2-Dichloroethene	96	5.129	5.134	(0.818)	805550	200.000	200
	22 2-Butanone	43	5.129	5.134	(0.818)	724407	200.000	200
	29 Tetrahydrofuran	72	5.139	5.134	(0.819)	146226	200.000	200
	24 2,2-Dichloropropane	77	5.139	5.134	(0.819)	553743	200.000	200
	27 Bromochloromethane	128	5.365	5.371	(0.856)	426658	200.000	200
	28 Chloroform	83	5.444	5.440	(0.868)	1390295	200.000	200
$	30 Dibromofluoromethane	113	5.591	5.597	(0.892)	717407	200.000	200
	31 1,1,1-Trichloroethane	97	5.631	5.636	(0.898)	854740	200.000	200
	113 Cyclohexane	56	5.710	5.705	(0.911)	1335036	200.000	200
	32 1,1-Dichloropropene	110	5.798	5.794	(0.925)	512003	200.000	200
	33 Carbon Tetrachloride	117	5.808	5.804	(0.926)	747866	200.000	200
$	35 1,2-Dichloroethane-d4	102	5.926	5.932	(0.945)	174327	200.000	200
	37 Benzene	78	5.995	6.001	(0.956)	3245891	200.000	200
	36 1,2-Dichloroethane	62	6.005	6.001	(0.958)	1162839	200.000	200
*	38 Fluorobenzene	96	6.271	6.267	(1.000)	631989	50.0000	
	39 Trichloroethene	130	6.645	6.641	(1.060)	702542	200.000	200
	114 Methylcyclohexane	83	6.852	6.848	(1.093)	1208242	200.000	200
	40 1,2-Dichloropropane	63	6.862	6.867	(1.094)	943415	200.000	200
	42 Dibromomethane	93	6.980	6.986	(1.113)	597867	200.000	200
	43 Bromodichloromethane	83	7.137	7.143	(1.138)	1125711	200.000	200
	45 cis-1,3-Dichloropropene	75	7.600	7.606	(1.212)	1514612	200.000	200
	46 4-Methyl-2-pentanone	43	7.748	7.753	(1.236)	1492941	200.000	200
$	47 Toluene-d8	98	7.896	7.901	(0.833)	2402099	200.000	200(A)
	48 Toluene	91	7.964	7.970	(1.270)	1985149	200.000	200
	49 trans-1,3-Dichloropropene	75	8.181	8.187	(1.305)	1190348	200.000	200
	51 1,1,2-Trichloroethane	97	8.388	8.384	(1.338)	735845	200.000	200
	53 Tetrachloroethene	164	8.575	8.571	(0.904)	550023	200.000	200(A)
	52 1,3-Dichloropropane	76	8.575	8.571	(0.904)	1436796	200.000	200
	54 2-Hexanone	43	8.644	8.649	(0.912)	1114201	200.000	200
	55 Dibromochloromethane	129	8.831	8.827	(0.931)	861303	200.000	200
	56 1,2-Dibromoethane	107	8.959	8.964	(0.945)	826427	200.000	200
*	57 Chlorobenzene-d5	117	9.481	9.476	(1.000)	472559	50.0000	
	115 1-Chlorohexane	91	9.481	9.476	(1.000)	1024388	200.000	200
	58 Chlorobenzene	112	9.510	9.516	(1.003)	1850189	200.000	200
	59 1,1,1,2-Tetrachloroethane	131	9.599	9.604	(1.012)	717619	200.000	200
	60 Ethylbenzene	106	9.638	9.634	(1.017)	968541	200.000	200
	61 m,p-Xylene	106	9.746	9.772	(1.030)	2422758	400.000	400
	62 o-Xylene	106	10.229	10.225	(1.079)	1233007	200.000	200
	64 Styrene	104	10.239	10.235	(1.080)	2194623	200.000	200
	65 Bromoform	173	10.455	10.451	(1.103)	635232	200.000	200
	66 Isopropylbenzene	105	10.652	10.658	(1.124)	2979183	200.000	200
$	68 Bromofluorobenzene	95	10.839	10.835	(1.143)	1069716	200.000	200
	69 1,1,2,2-Tetrachloroethane	83	10.997	10.993	(0.899)	1384763	200.000	200
	70 Bromobenzene	156	11.017	11.022	(0.901)	909897	200.000	200

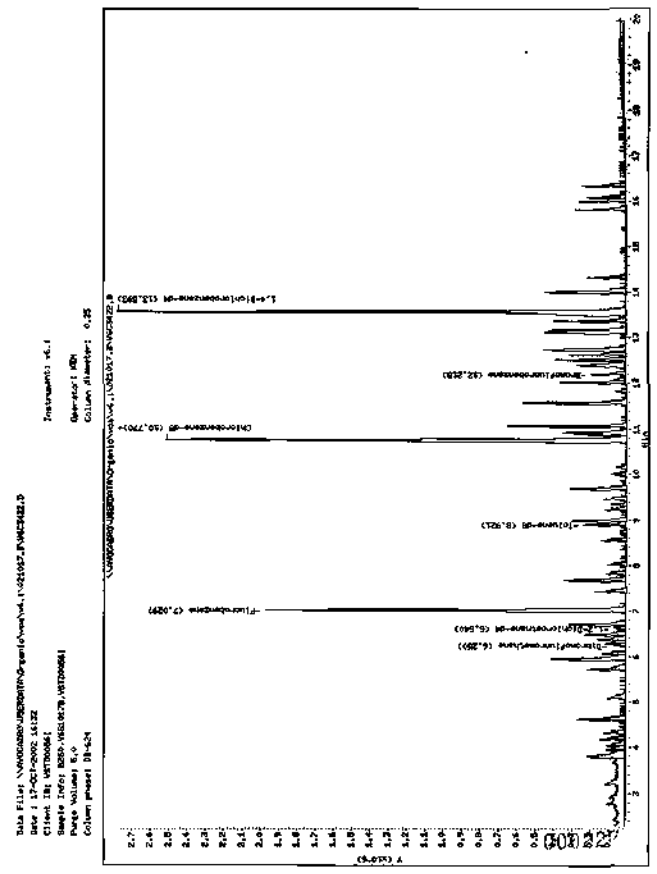
Data File: V5E1621.D
Report Date: 26-Nov-2002 14:32

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
74 1,2,3-Trichloropropane	75	11.058	11.053	(0.904)	1572097	200.000	200
72 n-Propylbenzene	120	11.145	11.140	(0.911)	819973	200.000	200
73 2-Chlorotoluene	126	11.253	11.249	(0.920)	782163	200.000	200
74 1,3,5-Trimethylbenzene	105	11.351	11.347	(0.928)	2543567	200.000	200
75 4-Chlorotoluene	126	11.381	11.377	(0.931)	780015	200.000	200
76 tert-Butylbenzene	119	11.746	11.741	(0.961)	2781790	200.000	200
77 1,2,4-Trimethylbenzene	105	11.804	11.800	(0.965)	2542595	200.000	200
78 sec-Butylbenzene	105	12.011	12.007	(0.982)	3285744	200.000	200
80 1,3-Dichlorobenzene	146	12.149	12.145	(0.994)	1590622	200.000	200
79 4-Isopropyltoluene	119	12.166	12.164	(0.995)	2572862	200.000	200
* 81 1,4-Dichlorobenzene-d4	152	12.224	12.224	(1.000)	229318	50.0000	
82 1,4-Dichlorobenzene	146	12.247	12.253	(1.002)	1527228	200.000	200
83 n-Butylbenzene	91	12.661	12.656	(1.037)	2659660	200.000	200
84 1,2-Dichlorobenzene	146	12.700	12.708	(1.039)	1446507	200.000	200
M 85 Xylene (Total)	106				3585765	600.000	600
86 1,2-Dibromo-3-chloropropane	75	13.446	13.451	(1.118)	189489	200.000	200
87 1,2,4-Trichlorobenzene	180	14.478	14.488	(1.201)	797291	200.000	200
88 Hexachlorobutadiene	225	14.606	14.602	(1.212)	382065	200.000	200
89 Naphthalene	128	14.978	14.980	(1.335)	2090139	200.000	200
90 1,2,3-Trichlorobenzene	180	15.286	15.286	(1.350)	651856	200.000	200(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Vo ml/ml



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021017.B\V6C3422.D
Report Date: 26-Nov-2002 14:31

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021017.B\V6C3422.D
Lab Smp Id: V6S1017B — Client Smp ID: VSTD0056I
Inj Date : 17-OCT-2002 16:32
Operator : KEN — Inst ID: v6.i
Smp Info : 8260,V6S1017B,VSTD0056I
Misc Info : ,1,1
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021017.B\v58260.m
Meth Date : 11-Nov-2002 16:04 mcl — Quant Type: ISTD
Cal Date : 17-OCT-2002 16:04 — Cal File: V6C3421.D
Als bottle: 2 — Calibration Samples, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE — Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
3 Dichlorodifluoromethane	85	2.053	2.044	(0.382)	89418	5.00000	5
116 Freon114	85	2.211	2.208	(0.518)	89060	5.00000	5
2 Chloromethane	50	2.278	2.268	(0.524)	84453	5.00000	5
5 Vinyl Chloride	62	2.418	2.418	(0.563)	91458	5.00000	5
4 Bromomethane	94	2.807	2.774	(0.599)	58972	5.00000	5(M)
6 Chloroethane	64	2.867	2.853	(0.619)	79660	5.00000	5
8 Trichlorofluoromethane	101	3.039	3.036	(0.668)	104674	5.00000	5
7 Acrolein	56	3.677	3.674	(0.823)	44904	25.0000	22
9 1,1-Dichloroethene	96	3.811	3.808	(0.842)	86519	5.00000	5
111 1,1,2-Trichlo-1,2,2- trifluoro	101	3.861	3.858	(0.846)	76412	5.00000	5
8 Acetone	43	3.855	3.864	(0.566)	25008	5.00000	30
10 Iodomethane	142	3.935	3.932	(0.566)	128885	5.00000	5
11 Carbon Disulfide	76	4.040	4.049	(0.934)	308130	5.00000	4
12 Acetonitrile	40	4.194	4.183	(0.589)	45796	50.0000	47(Q)
13 Allyl Chloride	76	4.194	4.193	(0.589)	45785	5.00000	5(Q)
112 Methyl Acetate	43	4.232	4.215	(0.599)	29130	5.00000	8

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021017.B\V6C3422.D
Report Date: 26-Nov-2002 14:31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
14 Methylene Chloride	84	4.328	4.320	(0.614)	84091	5.00000	5
15 Acrylonitrile	53	4.580	4.580	(0.652)	74158	25.0000	27
16 trans-1,2-Dichloroethene	96	4.838	4.841	(0.660)	79409	5.00000	5
17 Methyl tert-butyl ether	73	4.844	4.841	(0.661)	187606	5.00000	5
18 1,1-Dichloroethane	63	5.193	5.188	(0.736)	121510	5.00000	5
19 Vinyl acetate	43	5.163	5.134	(0.732)	84328	5.00000	5
20 2-Butanone	43	5.753	5.730	(0.816)	39825	5.00000	6(M)
21 cis-1,2-Dichloroethene	96	5.737	5.736	(0.818)	63806	5.00000	5
24 2,2-Dichloropropane	77	5.738	5.742	(0.817)	82600	5.00000	4
25 Propionitrile	54	5.788	5.785	(0.824)	58521	50.0000	56
26 Methacrylonitrile	41	5.958	5.962	(0.848)	238910	50.0000	57
27 Bromochloromethane	128	5.995	5.982	(0.854)	42045	5.00000	5
29 Tetrahydrofuran	72	6.054	6.058	(0.862)	2847	5.00000	1(Q)
28 Chloroform	83	6.080	6.077	(0.866)	137327	5.00000	6
* 30 Dibromofluoromethane	113	6.250	6.253	(0.889)	66171	5.00000	5
31 1,1,1-Trichloroethane	97	6.305	6.308	(0.897)	104323	5.00000	6
119 Cyclohexane	56	6.386	6.393	(0.909)	109423	5.00000	6
32 1,1-Dichloropropene	110	6.488	6.491	(0.923)	77318	5.00000	5
33 Carbon Tetrachloride	117	6.506	6.501	(0.926)	92660	5.00000	5
34 Methyl Alcohol	43	6.578	6.578	(0.936)	16016	100.000	120
* 35 1,2-Dichloroethane-d4	102	6.640	6.637	(0.945)	84817	5.00000	5
37 Benzene	78	6.735	6.732	(0.957)	295726	5.00000	5
36 1,2-Dichloroethane	62	6.735	6.732	(0.957)	87644	5.00000	5
M 31 1,2-Dichloroethene (Total)	96				143997	10.0000	11
* 38 Fluorobenzene	96	7.029	7.032	(1.000)	2447844	50.0000	
39 Trichloroethene	130	7.461	7.458	(1.061)	91361	5.00000	5
114 Methylcyclohexane	83	7.704	7.707	(1.096)	131228	5.00000	4
40 1,2-Dichloropropane	63	7.718	7.715	(1.098)	72621	5.00000	5
41 Methyl Methacrylate	69	7.826	7.823	(1.113)	26671	5.00000	5
42 Dibromomethane	93	7.868	7.865	(1.119)	41031	5.00000	5
43 Bromodichloromethane	83	8.033	8.030	(1.143)	94126	5.00000	5
44 2-Chloroethyl vinyl ether	63	8.386	8.377	(1.193)	8408	5.00000	4(M)
45 cis-1,3-Dichloropropene	75	8.576	8.571	(1.220)	132491	5.00000	5
48 4-Methyl-2-pentanone	43	8.751	8.748	(1.245)	28164	5.00000	6
* 47 Toluene-d8	98	8.915	8.924	(0.826)	261109	5.00000	5
46 Toluene	91	8.908	8.902	(1.266)	330269	5.00000	6
49 trans-1,3-Dichloropropene	75	9.254	9.249	(1.315)	99782	5.00000	5
50 Ethyl Methacrylate	69	9.353	9.342	(1.331)	87548	5.00000	5
51 1,1,2-Trichloroethane	97	9.497	9.494	(1.350)	61826	5.00000	5
53 Tetrachloroethene	164	9.718	9.715	(0.902)	78590	5.00000	6
52 1,3-Dichloropropane	76	9.706	9.726	(0.901)	109592	5.00000	5
54 2-Hexanone	43	9.797	9.800	(0.910)	27962	5.00000	4
55 Dibromochloromethane	129	10.018	10.013	(0.929)	79701	5.00000	5
56 1,2-Dibromoethane	107	10.368	10.377	(0.962)	59863	5.00000	5
115 1-Chlorohexane	91	10.766	10.762	(0.999)	130827	5.00000	4(Q)
* 57 Chlorobenzene-d5	117	10.779	10.771	(1.000)	2148418	50.0000	
58 Chlorobenzene	112	10.807	10.806	(1.003)	235126	5.00000	6

Vo ml/ml
use 5ml/l purge

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021017.B\V6C3422.D
Report Date: 26-Nov-2002 14:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	59 1,1,1,2-Tetrachloroethane	131	10.898	10.901	(1.012)	81258	5.00000	5
	60 Ethylbenzene	106	10.941	10.944	(1.016)	124241	5.00000	5
	61 m,p-Xylene	106	11.097	11.090	(1.029)	302012	10.0000	11
	62 o-Xylene	106	11.586	11.583	(1.076)	151008	5.00000	5
	64 Styrene	104	11.592	11.595	(1.076)	239715	5.00000	5
	65 Bromoform	173	11.817	11.826	(1.097)	43670	5.00000	5
	66 Isopropylbenzene	105	12.030	12.033	(1.117)	353978	5.00000	6
	67 trans-1,4-Dichloro-2-butene	75	12.091	12.094	(1.123)	20819	5.00000	5
S	68 Bromofluorobenzene	95	12.218	12.221	(1.134)	87331	5.00000	5
	69 1,1,2,2-Tetrachloroethane	83	12.370	12.373	(0.910)	65178	5.00000	6
	70 Bromobenzene	156	12.407	12.410	(0.913)	102777	5.00000	5
	71 1,2,3-Trichloropropane	75	12.437	12.434	(0.915)	80402	5.00000	5
	72 n-Propylbenzene	120	12.535	12.532	(0.922)	110949	5.00000	5
	73 2-Chlorotoluene	126	12.644	12.641	(0.930)	99022	5.00000	5
	74 1,3,5-Trimethylbenzene	105	12.735	12.738	(0.937)	310935	5.00000	6
	75 4-Chlorotoluene	126	12.766	12.769	(0.939)	98683	5.00000	5
M	63 Xylene (Total)	106				453020	15.0000	16
	76 tert-Butylbenzene	119	13.125	13.128	(0.966)	351592	5.00000	6
	77 1,2,4-Trimethylbenzene	105	13.186	13.183	(0.970)	311165	5.00000	6
	78 sec-Butylbenzene	105	13.380	13.383	(0.984)	393330	5.00000	6
	80 1,3-Dichlorobenzene	146	13.520	13.517	(0.995)	199319	5.00000	6
	79 4-Isopropyltoluene	119	13.551	13.548	(0.997)	133140	5.00000	6
*	81 1,4-Dichlorobenzene-d4	152	13.593	13.590	(1.000)	1184321	50.0000	
	82 1,4-Dichlorobenzene	146	13.617	13.621	(1.002)	205009	5.00000	6
	83 n-Butylbenzene	91	14.019	14.016	(1.031)	291635	5.00000	6
	84 1,2-Dichlorobenzene	146	14.041	14.046	(1.033)	182942	5.00000	6
	85 Hexachloroethane	117	14.347	14.351	(1.055)	52372	5.00000	5
	86 1,2-Dibromo-3-chloropropane	75	14.907	14.904	(1.097)	9622	5.00000	5(Q)
	87 1,2,4-Trichlorobenzene	180	15.832	15.829	(1.165)	128626	5.00000	5
	88 Hexachlorobutadiene	225	16.008	16.011	(1.178)	72431	5.00000	6
	89 Naphthalene	128	16.093	16.097	(1.184)	262704	5.00000	6
	90 1,2,3-Trichlorobenzene	180	16.355	16.352	(1.203)	114078	5.00000	6

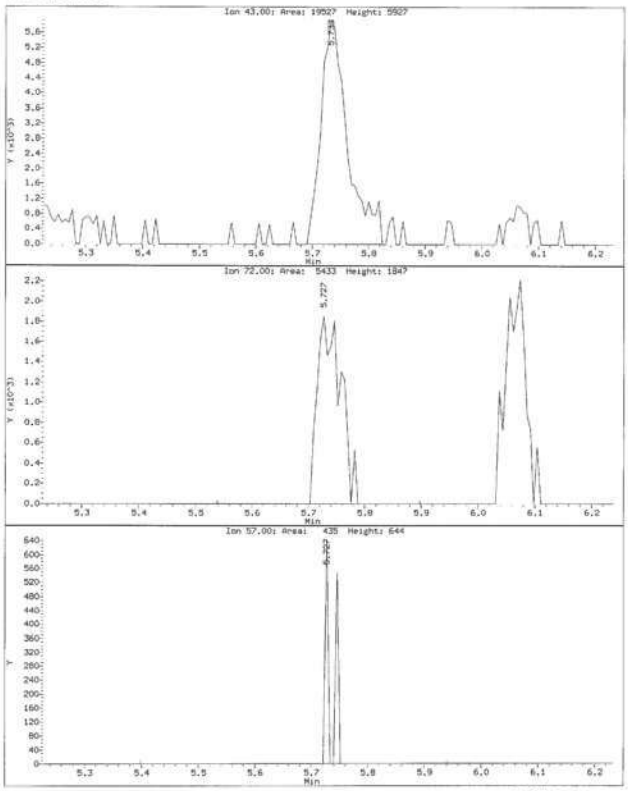
QC Flag Legend

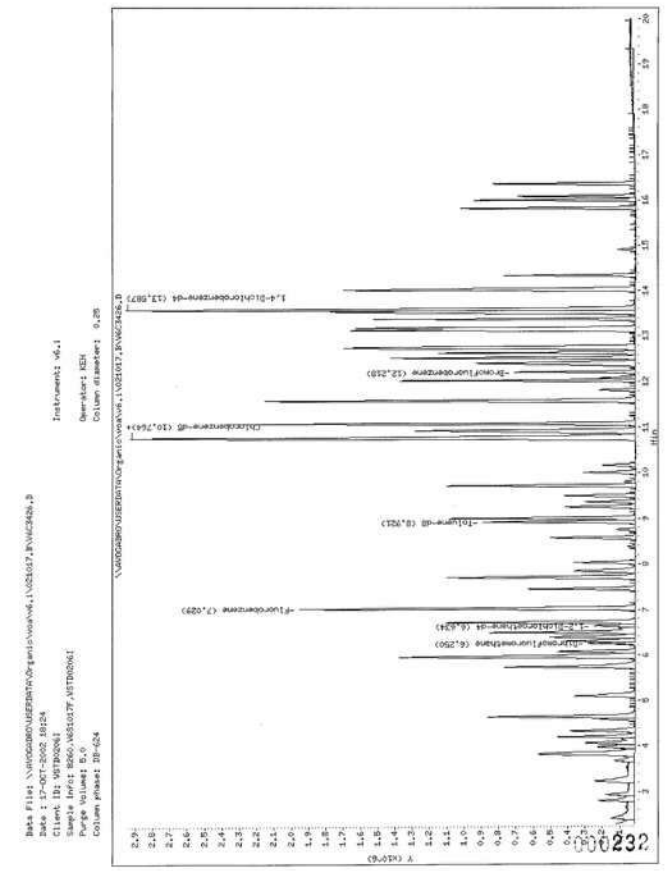
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

YD
11/26/02

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021017.B\V6C3422.D
Injection Date: 17-OCT-2002 16:32
Instrument: v6.i
Client Sample ID: VSTD0056I

Compound: 2-Butanone
CAS Number: 78-93-3





Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021017.B\V6C3426.D
Report Date: 26-Nov-2002 14:31

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021017.B\V6C3426.D
Lab Smp Id: V6S1017F Client Smp ID: VSTD0206I
Inj Date : 17-OCT-2002 18:24
Operator : KEN Inst ID: v6.i
Smp Info : 8260,V6S1017F,VSTD0206I
Misc Info : ,1,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021017.B\v68260.m
Meth Date : 11-Nov-2002 16:04 mtl Quant Type: ISTD
Cal Date : 17-OCT-2002 16:04 Cal File: V6C3421.D
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	2 Dichlorodifluoromethane	85	2.035	2.044	(0.289)	178627	20.0000	19
	116 Freon114	85	2.205	2.208	(0.314)	327545	20.0000	19
	3 Chloromethane	50	2.266	2.269	(0.322)	276477	20.0000	19
	4 Vinyl Chloride	62	2.415	2.415	(0.344)	277510	20.0000	19
	5 Bromomethane	94	2.807	2.774	(0.399)	173275	20.0000	16
	6 Chloroethane	64	2.941	2.932	(0.418)	174717	20.0000	18
	7 Trichlorofluoromethane	101	3.233	3.236	(0.460)	325433	20.0000	18
	8 Acrolein	56	3.677	3.674	(0.523)	124804	100.000	85
	9 1,1-Dichloroethene	96	3.805	3.808	(0.541)	309730	20.0000	20
	111 1,1,2-Trichlo-1,2,2-trifluoro	101	3.848	3.838	(0.547)	245305	20.0000	19
	10 Acetone	43	3.848	3.846	(0.547)	35333	20.0000	14
	12 Iodomethane	142	3.969	3.972	(0.565)	406394	20.0000	18
	13 Carbon Disulfide	76	4.060	4.063	(0.578)	653587	20.0000	19
	14 Acetonitrile	40	4.194	4.143	(0.597)	113026	200.000	160(Q)
	15 Allyl Chloride	76	4.200	4.197	(0.598)	159856	20.0000	19
	112 Methyl Acetate	43	4.213	4.315	(0.599)	96024	20.0000	16

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021017.B\V6C3426.D
Report Date: 26-Nov-2002 14:31

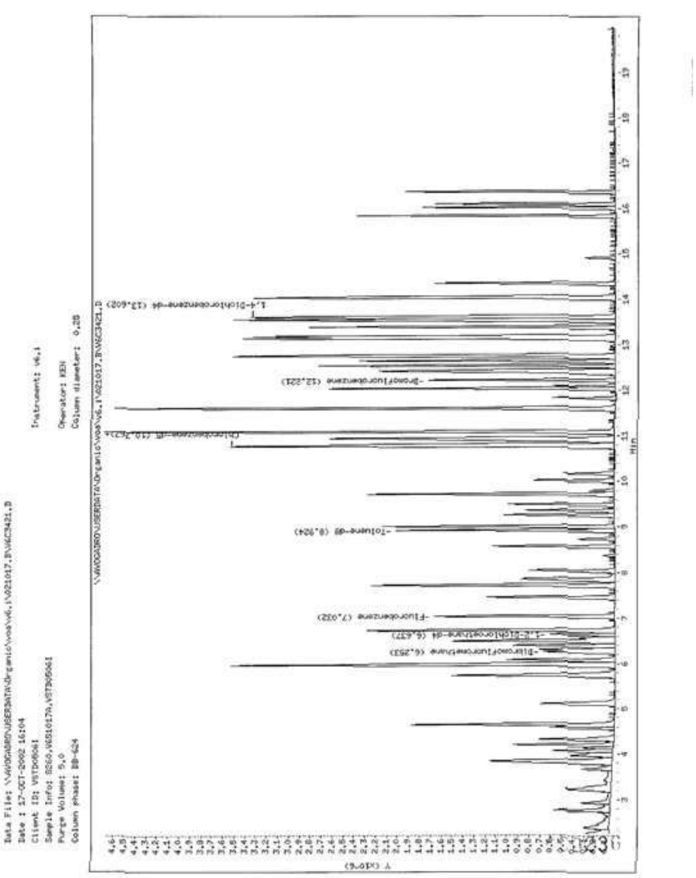
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
14 Methylene Chloride	84	4.328	4.331	(0.616)	276108	20.0000	19
15 Acrylonitrile	53	4.577	4.580	(0.651)	247718	100.000	89
16 trans-1,2-Dichloroethene	96	4.638	4.641	(0.660)	284783	20.0000	20
17 Methyl tert-butyl ether	73	4.644	4.661	(0.661)	551462	20.0000	17
18 1,1-Dichloroethane	63	5.095	5.098	(0.725)	450337	20.0000	20
19 Vinyl acetate	43	5.137	5.134	(0.731)	259953	20.0000	17
22 2-Butanone	43	5.733	5.730	(0.816)	52739	20.0000	17
23 cis-1,2-Dichloroethene	96	5.733	5.736	(0.816)	302366	20.0000	19
24 2,2-Dichloropropane	77	5.739	5.742	(0.817)	230043	20.0000	21
25 Propionitrile	54	5.782	5.785	(0.823)	185743	200.000	180
26 Methacrylonitrile	41	5.958	5.962	(0.848)	853034	200.000	180
27 Bromochloromethane	128	5.995	5.992	(0.853)	149944	20.0000	19
29 Tetrahydrofuran	72	6.068	6.059	(0.863)	14518	20.0000	17
28 Chloroform	83	6.074	6.077	(0.864)	464912	20.0000	20
$ 30 Dibromofluoromethane	113	6.250	6.253	(0.889)	227280	20.0000	19
31 1,1,1-Trichloroethane	97	6.305	6.308	(0.897)	392140	20.0000	21
113 Cyclohexane	56	6.390	6.393	(0.909)	345456	20.0000	18
32 1,1-Dichloropropene	110	6.488	6.491	(0.923)	147154	20.0000	20
33 Carbon Tetrachloride	117	6.500	6.503	(0.925)	354539	20.0000	20
34 Isobutyl Alcohol	43	6.573	6.570	(0.935)	98036	400.000	380
$ 35 1,2-Dichloroethane-d4	102	6.634	6.637	(0.944)	56101	20.0000	19
37 Benzene	78	6.719	6.722	(0.956)	1096304	20.0000	22
36 1,2-Dichloroethane	62	6.719	6.722	(0.956)	311532	20.0000	19
M 21 1,2-Dichloroethene (Total)	96				589149	40.0000	39
* 38 Fluorobenzene	96	7.029	7.032	(1.000)	2677163	50.0000	
39 Trichloroethene	130	7.461	7.458	(1.061)	335578	20.0000	20
114 Methylcyclohexane	83	7.704	7.707	(1.096)	413121	20.0000	18
40 1,2-Dichloropropane	63	7.710	7.713	(1.097)	257108	20.0000	19
41 Methyl Methacrylate	69	7.820	7.823	(1.113)	121895	20.0000	17
42 Dibromomethane	93	7.844	7.853	(1.116)	144061	20.0000	19
43 Bromodichloromethane	83	8.027	8.030	(1.142)	345792	20.0000	19
44 2-Chloroethyl vinyl ether	63	8.380	8.377	(1.192)	28460	20.0000	18
45 cis-1,3-Dichloropropene	75	8.568	8.571	(1.219)	439642	20.0000	19
46 4-Methyl-2-pentanone	43	8.748	8.744	(1.244)	107770	20.0000	26
$ 47 Toluene-d8	98	8.921	8.924	(0.828)	916281	20.0000	20
48 Toluene	91	9.000	9.003	(1.280)	1222542	20.0000	21
49 trans-1,3-Dichloropropene	75	9.256	9.259	(1.317)	358097	20.0000	19
50 Ethyl Methacrylate	69	9.365	9.362	(1.332)	236042	20.0000	18
51 1,1,2-Trichloroethane	97	9.487	9.496	(1.350)	211176	20.0000	19
53 Tetrachloroethene	164	9.712	9.715	(0.902)	390411	20.0000	20
52 1,3-Dichloropropane	76	9.712	9.715	(0.902)	353274	20.0000	19
54 2-Hexanone	43	9.803	9.800	(0.910)	67309	20.0000	16
55 Dibromochloromethane	129	10.010	10.013	(0.929)	257541	20.0000	19
56 1,2-Dibromoethane	107	10.168	10.177	(0.944)	209810	20.0000	19
115 1-Chlorohexane	91	10.758	10.767	(0.999)	378024	20.0000	19(Q)
* 57 Chlorobenzene-d5	117	10.770	10.773	(1.000)	3161361	50.0000	
58 Chlorobenzene	112	10.801	10.810	(1.003)	874643	20.0000	21

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021017.B\V6C3426.D
Report Date: 26-Nov-2002 14:31

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
59 1,1,1,2-Tetrachloroethane	131	10.898	10.901	(1.012)	299174	20.0000	19
60 Ethylbenzene	106	10.941	10.944	(1.016)	459022	20.0000	20
61 m,p-Xylene	106	11.087	11.090	(1.029)	1149350	40.0000	42
62 o-Xylene	106	11.580	11.583	(1.075)	566600	20.0000	20
64 Styrene	104	11.598	11.595	(1.077)	919145	20.0000	21
65 Bromoform	173	11.823	11.826	(1.098)	156045	20.0000	18
66 Isopropylbenzene	105	12.030	12.033	(1.117)	1347730	20.0000	22
67 trans-1,4-Dichloro-2-butene	75	12.091	12.094	(1.123)	71602	20.0000	17
$ 68 Bromofluorobenzene	95	12.218	12.221	(1.134)	327349	20.0000	19
69 1,1,2,2-Tetrachloroethane	83	12.370	12.373	(0.910)	221169	20.0000	19
70 Bromobenzene	156	12.407	12.410	(0.913)	378939	20.0000	20
71 1,2,3-Trichloropropane	75	12.431	12.434	(0.915)	278035	20.0000	19
72 n-Propylbenzene	120	12.529	12.532	(0.922)	420615	20.0000	20
73 2-Chlorotoluene	126	12.638	12.641	(0.930)	365767	20.0000	20
74 1,3,5-Trimethylbenzene	105	12.735	12.738	(0.937)	1132406	20.0000	21
75 4-Chlorotoluene	126	12.766	12.769	(0.940)	384947	20.0000	20
M 63 Xylene (Total)	106				1715950	60.0000	61
76 tert-Butylbenzene	119	13.125	13.128	(0.966)	1319516	20.0000	21
77 1,2,4-Trimethylbenzene	105	13.180	13.183	(0.970)	1178327	20.0000	21
78 sec-Butylbenzene	105	13.380	13.383	(0.985)	1473398	20.0000	22
80 1,3-Dichlorobenzene	146	13.514	13.517	(0.995)	730419	20.0000	20
79 4-Isopropyltoluene	119	13.545	13.548	(0.997)	1276303	20.0000	22
* 81 1,4-Dichlorobenzene-d4	152	13.587	13.590	(1.000)	1195962	50.0000	
82 1,4-Dichlorobenzene	146	13.618	13.621	(1.002)	744622	20.0000	21
83 n-Butylbenzene	91	14.019	14.016	(1.032)	1092514	20.0000	22
84 1,2-Dichlorobenzene	146	14.043	14.046	(1.034)	674895	20.0000	20
85 Hexachloroethane	117	14.348	14.351	(1.056)	188953	20.0000	18
86 1,2-Dibromo-3-chloropropane	75	14.907	14.904	(1.097)	35804	20.0000	19
87 1,2,4-Trichlorobenzene	180	15.826	15.829	(1.165)	487925	20.0000	20
88 Hexachlorobutadiene	225	16.008	16.011	(1.178)	252762	20.0000	20
89 Naphthalene	128	16.094	16.097	(1.184)	928806	20.0000	19
90 1,2,3-Trichlorobenzene	180	16.355	16.352	(1.204)	410665	20.0000	20

QC Flag Legend

Q - Qualifier signal failed the ratio test.



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021017.B\V6C3421.D
Report Date: 26-Nov-2002 14:31

Mitkem Corporation

Method 8260 Water and Medium Soil
Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021017.B\V6C3421.D
Lab Smp Id: V6S1017A   Client Smp ID: VSTD0506I
Inj Date : 17-OCT-2002 16:04
Operator : KEN   Inst ID: v6.i
Smp Info : 8260,V6S1017A,VSTD0506I
Misc Info : ,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021017.B\v68260.m
Meth Date : 11-Nov-2002 16:04 mtl   Quant Type: ISTD
Cal Date : 17-OCT-2002 16:04   Cal File: V6C3421.D
Als bottle: 1   Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	*ng unit correction factor*
Vo	5.000	Sample Volume purged (mL)

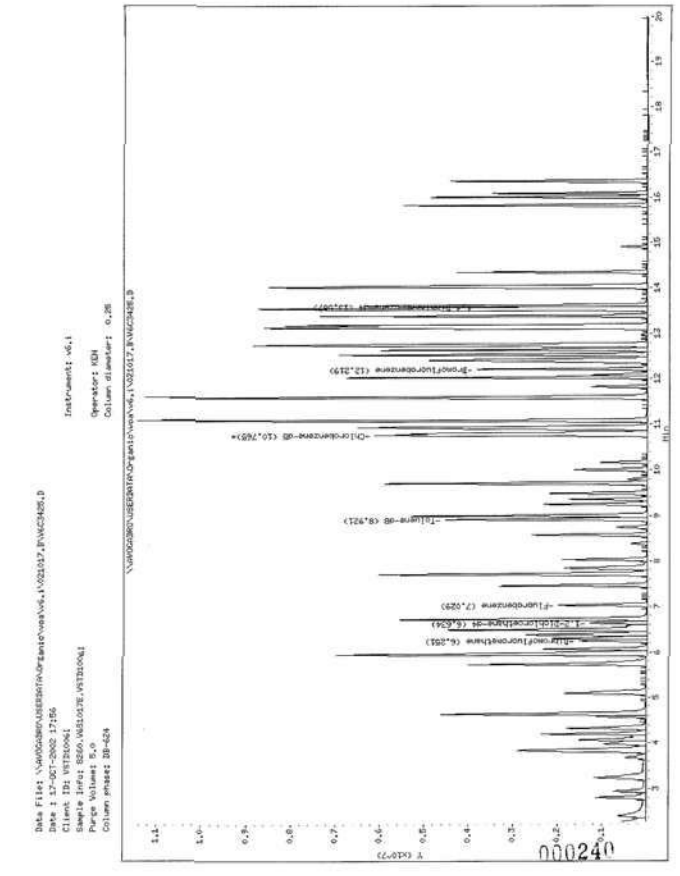
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85	2.044	2.044	(0.291)	364025	50.0000	45
116 Freon114	85	2.208	2.208	(0.314)	457059	50.0000	46
2 Chloromethane	50	2.269	2.269	(0.323)	831672	50.0000	49
3 Vinyl Chloride	62	2.415	2.415	(0.343)	591464	50.0000	46
4 Bromomethane	94	2.774	2.774	(0.394)	496378	50.0000	54
5 Chloroethane	64	2.932	2.932	(0.417)	398793	50.0000	48
6 Trichlorofluoromethane	101	3.236	3.236	(0.460)	671367	50.0000	44
7 Acrolein	56	3.674	3.674	(0.522)	343932	250.000	280
8 1,1-Dichloroethene	96	3.808	3.808	(0.541)	587729	50.0000	44
111 1,1,2-Trichlo-1,2,2-trifluoro	101	3.838	3.838	(0.546)	504601	50.0000	45
9 Acetone	43	3.844	3.844	(0.547)	103152	50.0000	48
10 Iodomethane	142	3.972	3.972	(0.565)	909466	50.0000	48
11 Carbon Disulfide	76	4.063	4.063	(0.578)	1330378	50.0000	45
12 Acetonitrile	40	4.143	4.143	(0.589)	338120	500.000	580
13 Allyl Chloride	76	4.197	4.197	(0.597)	334018	50.0000	46
112 Methyl Acetate	43	4.215	4.215	(0.599)	366650	50.0000	58

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021017.B\V6C3421.D
Report Date: 26-Nov-2002 14:31

	Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	14 Methylene Chloride	84	4.331	4.331	(0.616)	579025	50.0000	48
	15 Acrylonitrile	53	4.580	4.580	(0.651)	661584	250.000	280
	16 trans-1,2-Dichloroethene	*96*	*4.641*	*4.641*	*(0.660)*	*542714*	50.0000	43
	17 Methyl tert-butyl ether	73	4.641	4.641	(0.660)	1409794	50.0000	52
	18 1,1-Dichloroethane	63	5.098	5.098	(0.725)	896133	50.0000	46
	19 Vinyl acetate	43	5.134	5.134	(0.730)	701346	50.0000	53
	22 2-Butanone	43	5.730	5.730	(0.815)	147622	50.0000	56
	23 cis-1,2-Dichloroethene	96	5.736	5.736	(0.816)	630075	50.0000	47
	24 2,2-Dichloropropane	77	5.742	5.742	(0.817)	472581	50.0000	40
	25 Propionitrile	54	5.785	5.785	(0.823)	523519	500.000	590
	26 Methacrylonitrile	41	5.940	5.940	(0.848)	2352409	500.000	570
	27 Bromochloromethane	128	5.990	5.992	(0.852)	348318	50.0000	51
	29 Tetrahydrofuran	72	6.059	6.055	(0.862)	46960	50.0000	64
	28 Chloroform	83	6.077	6.077	(0.864)	958832	50.0000	48
S	30 Dibromofluoromethane	113	6.253	6.253	(0.889)	533931	50.0000	52
	31 1,1,1-Trichloroethane	97	6.308	6.308	(0.897)	656964	50.0000	41
	113 Cyclohexane	56	6.393	6.393	(0.909)	700463	50.0000	43
	32 1,1-Dichloropropene	110	6.491	6.491	(0.923)	253456	50.0000	42
	33 Carbon Tetrachloride	117	6.503	6.503	(0.925)	644287	50.0000	43
	34 Isobutyl Alcohol	43	6.570	6.570	(0.934)	272348	1000.00	1200
S	35 1,2-Dichloroethane-d4	102	6.637	6.637	(0.944)	133162	50.0000	53
	37 Benzene	78	6.722	6.722	(0.956)	2204166	50.0000	48
	36 1,2-Dichloroethane	62	6.722	6.722	(0.956)	731729	50.0000	53
M	21 1,2-Dichloroethene (Total)	96				1172789	100.000	91
*	38 Fluorobenzene	96	7.032	7.032	(1.000)	2274421	50.0000	
	39 Trichloroethene	130	7.458	7.458	(1.061)	637651	50.0000	44
	114 Methylcyclohexane	83	7.707	7.707	(1.096)	835329	50.0000	43
	40 1,2-Dichloropropane	63	7.713	7.713	(1.097)	562451	50.0000	49
	41 Methyl Methacrylate	69	7.823	7.823	(1.112)	324725	50.0000	55
	42 Dibromomethane	93	7.853	7.853	(1.117)	329212	50.0000	51
	43 Bromodichloromethane	83	8.030	8.030	(1.142)	766077	50.0000	50
	44 2-Chloroethyl vinyl ether	63	8.377	8.377	(1.191)	69548	50.0000	41
	45 cis-1,3-Dichloropropene	75	8.571	8.571	(1.219)	965935	50.0000	50
	46 4-Methyl-2-pentanone	43	8.748	8.748	(1.244)	306845	50.0000	55
S	47 Toluene-d8	98	8.924	8.924	(0.828)	2086975	50.0000	50
	48 Toluene	91	9.003	9.003	(1.280)	2433384	50.0000	49
	49 trans-1,3-Dichloropropene	75	9.259	9.259	(1.317)	846948	50.0000	52
	50 Ethyl Methacrylate	69	9.362	9.362	(1.331)	629170	50.0000	55
	51 1,1,2-Trichloroethane	97	9.496	9.496	(1.350)	482478	50.0000	50
	53 Tetrachloroethene	164	9.715	9.715	(0.902)	523356	50.0000	40
	52 1,3-Dichloropropane	76	9.715	9.715	(0.902)	834421	50.0000	49
	54 2-Hexanone	43	9.808	9.808	(0.910)	206409	50.0000	56
	55 Dibromochloroethane	129	10.013	10.011	(0.929)	624413	50.0000	49
	56 1,2-Dibromoethane	107	10.177	10.177	(0.945)	507788	50.0000	53
	115 1-Chlorohexane	91	10.767	10.767	(0.999)	728920	50.0000	41
*	57 Chlorobenzene-d5	117	10.773	10.773	(1.000)	1972107	50.0000	
	58 Chlorobenzene	112	10.810	10.810	(1.003)	1819482	50.0000	47

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021017.B\V6C3421.D
Report Date: 26-Nov-2002 14:31

	Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	59 1,1,1,2-Tetrachloroethane	131	10.901	10.901	(1.012)	672540	50.0000	48
	60 Ethylbenzene	106	10.944	10.944	(1.016)	921615	50.0000	44
	62 m,p-Xylene	*106*	*11.090*	*11.090*	*(1.029)*	*2299775*	*100.000*	*91*
	62 o-Xylene	106	11.583	11.583	(1.075)	1195181	50.0000	46
	64 Styrene	104	11.595	11.595	(1.076)	1972519	50.0000	48
	65 Bromoform	173	11.826	11.826	(1.098)	403450	50.0000	52
	66 Isopropylbenzene	105	12.033	12.033	(1.117)	2583870	50.0000	46
	67 trans-1,4-Dichloro-2-butene	75	12.094	12.094	(1.123)	198299	50.0000	52
S	68 Bromofluorobenzene	95	12.221	12.221	(1.134)	803135	50.0000	51
	69 1,1,2,2-Tetrachloroethane	83	12.373	12.373	(0.910)	950165	50.0000	49
	70 Bromobenzene	156	12.410	12.410	(0.913)	846577	50.0000	46
	71 1,2,3-Trichloropropane	75	12.434	12.434	(0.915)	712753	50.0000	52
	72 n-Propylbenzene	120	12.532	12.532	(0.922)	818466	50.0000	41
	73 2-Chlorotoluene	126	12.641	12.641	(0.930)	766419	50.0000	44
	74 1,3,5-Trimethylbenzene	105	12.738	12.738	(0.937)	2276291	50.0000	44
	75 4-Chlorotoluene	126	12.769	12.769	(0.940)	796989	50.0000	44
M	63 Xylene (Total)	106				3494956	150.000	140
	76 tert-Butylbenzene	119	13.128	13.128	(0.966)	2653283	50.0000	44
	77 1,2,4-Trimethylbenzene	105	13.183	13.183	(0.970)	2390291	50.0000	46
	78 sec-Butylbenzene	105	13.383	13.383	(0.985)	2766289	50.0000	42
	80 1,3-Dichlorobenzene	146	13.517	13.517	(0.995)	1564007	50.0000	46
	79 4-Isopropyltoluene	119	13.548	13.548	(0.997)	2439548	50.0000	44
*	81 1,4-Dichlorobenzene-d4	152	13.590	13.590	(1.000)	1145139	50.0000	
	82 1,4-Dichlorobenzene	146	13.621	13.621	(1.002)	1582353	50.0000	46
	83 n-Butylbenzene	91	14.016	14.016	(1.031)	2073152	50.0000	43
	84 1,2-Dichlorobenzene	146	14.046	14.046	(1.034)	1473148	50.0000	46
	85 Hexachloroethane	117	14.351	14.351	(1.056)	410977	50.0000	45
	86 1,2-Dibromo-3-chloropropane	75	14.804	14.804	(1.089)	92241	50.0000	52
	87 1,2,4-Trichlorobenzene	180	15.829	15.829	(1.165)	1084367	50.0000	47
	88 Hexachlorobutadiene	225	16.011	16.011	(1.178)	474522	50.0000	39
	89 Naphthalene	128	16.097	16.097	(1.184)	1945921	50.0000	48
	90 1,2,3-Trichlorobenzene	180	16.352	16.352	(1.203)	827345	50.0000	47



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021017.B\V6C3425.D
Report Date: 26-Nov-2002 14:31

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021017.B\V6C3425.D
Lab Smp Id: V6S1017E Client Smp ID: VSTD1006I
Inj Date : 17-OCT-2002 17:56
Operator : KEN Inst ID: v6.i
Smp Info : 8260,V6S1017E,VSTD1006I
Misc Info : ,1,4
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021017.B\v68260.m
Meth Date : 11-Nov-2002 16:04 mtl Quant Type: ISTD
Cal Date : 17-OCT-2002 16:04 Cal File: V6C3421.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	1 Dichlorodifluoromethane	85	2.041	2.044	(0.290)	996159	100.000	100
	116 Freon114	85	2.251	2.206	(0.315)	1240452	100.000	100
	2 Chloromethane	50	2.272	2.269	(0.323)	1507994	100.000	98
	3 Vinyl Chloride	62	2.424	2.415	(0.345)	1552937	100.000	100
	4 Bromomethane	94	2.814	2.774	(0.400)	1166276	100.000	100
	5 Chloroethane	64	2.947	2.932	(0.419)	992472	100.000	100
	6 Trichlorofluoromethane	101	3.239	3.236	(0.461)	1470861	100.000	100
	7 Acrolein	56	3.677	3.674	(0.523)	656829	500.000	440
	8 1,1-Dichloroethene	96	3.805	3.808	(0.541)	1411017	100.000	100
	117 1,1,2-Trichlo-1,2,2-trifluoro	101	3.842	3.838	(0.546)	1361622	100.000	100
	9 Acetone	43	3.842	3.844	(0.546)	*164059*	*100.000*	65
	10 Iodomethane	142	3.969	3.972	(0.565)	2249312	100.000	100
	11 Carbon Disulfide	76	4.067	4.063	(0.579)	3625521	100.000	100
	12 Acetonitrile	40	4.134	4.143	(0.587)	579770	1000.00	830(Q)
	13 Allyl Chloride	76	4.134	4.137	(0.587)	898197	100.000	100
	112 Methyl Acetate	43	4.213	4.215	(0.598)	513241	100.000	93

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021017.B\V6C3425.D
Report Date: 26-Nov-2002 14:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	34 Methylene Chloride	84	4.328	4.331	(0.424)	1407852	100.000	97
	35 Acrylonitrile	53	4.584	4.580	(0.452)	1366338	500.000	480
	36 trans-1,2-Dichloroethene	96	4.639	4.641	(0.680)	1560288	100.000	100
	37 Methyl tert-butyl ether	73	4.645	4.641	(0.681)	3113876	100.000	97
	38 1,1-Dichloroethane	63	5.095	5.096	(0.725)	2159906	100.000	100
	39 Vinyl acetate	43	5.137	5.134	(0.731)	1561994	100.000	99
	22 2-Butanone	43	5.734	5.730	(0.816)	272286	100.000	87
	23 cis-1,2-Dichloroethene	96	5.734	5.736	(0.816)	1640077	100.000	100
	24 2,2-Dichloropropane	77	5.740	5.742	(0.817)	1447821	100.000	100
	25 Propionitrile	54	5.782	5.785	(0.823)	976446	1000.00	920
	26 Methacrylonitrile	41	5.959	5.962	(0.848)	4604182	1000.00	940
	27 Bromochloromethane	128	5.995	5.992	(0.853)	801579	100.000	99
	29 Tetrahydrofuran	72	6.063	6.059	(0.862)	97364	100.000	110
	28 Chloroform	83	6.074	6.077	(0.864)	2392526	100.000	100
S	30 Dibromofluoromethane	113	6.251	6.253	(0.889)	1265078	100.000	100
	31 1,1,1-Trichloroethane	97	6.306	6.306	(0.897)	1997191	100.000	100
	111 Cyclohexane	56	6.391	6.393	(0.909)	2012353	100.000	100
	32 1,1-Dichloropropene	110	6.488	6.491	(0.923)	776647	100.000	110
	33 Carbon Tetrachloride	117	6.500	6.500	(0.925)	1913639	100.000	110
	34 Isobutyl Alcohol	43	6.567	6.570	(0.934)	453500	2000.00	1700
S	*35 1,2-Dichloroethane-d4*	*100*	*6.640*	*6.637*	*(0.945)*	*282408*	*100.000*	*97*
	37 Benzene	78	6.719	6.722	(0.956)	5821463	100.000	100
	36 1,2-Dichloroethane	62	6.725	6.722	(0.957)	1591104	100.000	97
M	21 1,2-Dichloroethene (Total)	96				3202365	200.000	210
*	38 Fluorobenzene	96	7.029	7.033	(1.000)	2716292	50.0000	
	39 Trichloroethene	130	7.455	7.458	(1.061)	1773743	100.000	100
	114 Methylcyclohexane	83	7.705	7.707	(1.096)	2193534	100.000	100
	40 1,2-Dichloropropane	63	7.721	7.723	(1.097)	1380492	100.000	100
	41 Methyl Methacrylate	69	7.820	7.823	(1.111)	693964	100.000	98
	42 Dibromomethane	93	7.851	7.853	(1.117)	762418	100.000	98
	43 Bromodichloromethane	83	8.027	8.030	(1.142)	1812612	100.000	99
	44 2-Chloroethyl vinyl ether	63	8.374	8.377	(1.191)	232218	100.000	120
	45 cis-1,3-Dichloropropene	75	8.569	8.571	(1.219)	2306426	100.000	100
	46 4-Methyl-2-pentanone	43	8.745	8.748	(1.244)	420596	100.000	94
S	47 Toluene-d8	98	8.921	8.924	(0.828)	4817266	100.000	100
	48 Toluene	91	9.000	9.003	(1.280)	6001577	100.000	100
	49 trans-1,3-Dichloropropene	75	9.250	9.259	(1.316)	1969831	100.000	100
	50 Ethyl Methacrylate	69	9.359	9.362	(1.331)	1171856	100.000	100
	51 1,1,2-Trichloroethane	97	9.487	9.496	(1.350)	1109934	100.000	97
	53 Tetrachloroethene	164	9.718	9.715	(0.902)	1535013	100.000	100
	52 1,3-Dichloropropane	76	9.712	9.715	(0.902)	1919489	100.000	100
	54 2-Hexanone	43	9.803	9.800	(0.910)	407149	100.000	96
	55 Dibromochloromethane	129	10.010	10.013	(0.929)	1453145	100.000	100
	56 1,2-Dibromoethane	107	10.175	10.177	(0.945)	1135945	100.000	98
	115 1-Chlorohexane	91	10.759	10.767	(0.999)	2088051	100.000	100(Q)
*	57 Chlorobenzene-d5	117	10.771	10.777	(1.000)	2244407	50.0000	
	58 Chlorobenzene	112	10.807	10.810	(1.003)	6433197	100.000	100

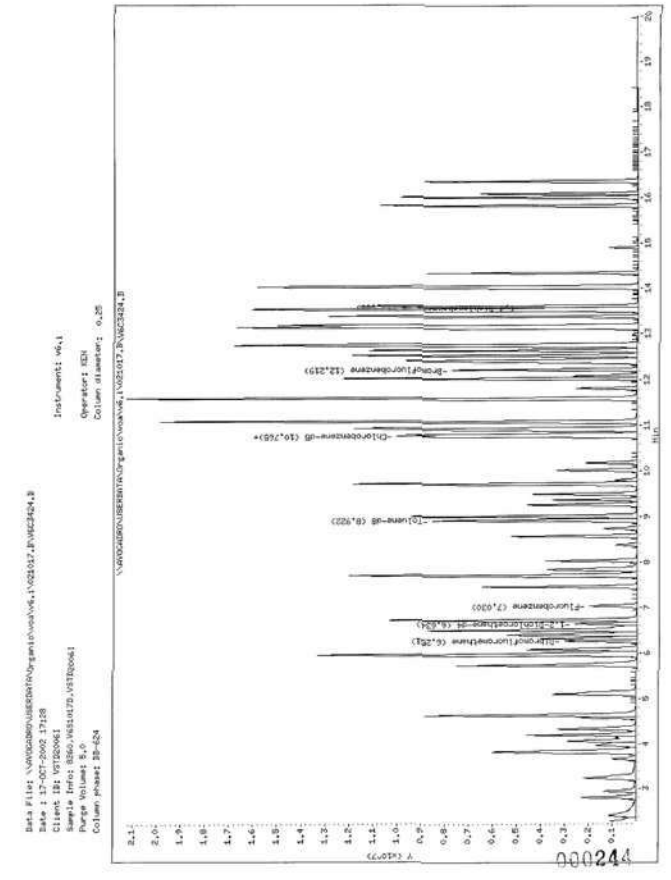
Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021017.B\V6C3425.D
Report Date: 26-Nov-2002 14:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	59 1,1,1,2-Tetrachloroethane	131	10.896	10.901	(1.012)	1617265	100.000	100
	60 Ethylbenzene	106	10.941	10.944	(1.016)	2500816	100.000	100(Q)
	61 m,p-Xylene	106	11.087	11.090	(1.029)	5943353	200.000	210(A)
	62 o-Xylene	106	11.586	11.583	(1.076)	3000996	100.000	100
	64 Styrene	104	11.592	11.595	(1.076)	4697495	100.000	100
	65 Bromoform	173	11.823	11.826	(1.098)	895510	100.000	100
	66 Isopropylbenzene	105	12.030	12.033	(1.117)	4544476	100.000	100
	67 trans-1,4-Dichloro-2-butene	75	12.091	12.094	(1.123)	439610	100.000	100
S	68 Bromofluorobenzene	95	12.219	12.221	(1.134)	1602765	100.000	100
	69 1,1,2,2-Tetrachloroethane	83	12.371	12.373	(0.910)	1209127	100.000	100
	70 Bromobenzene	156	12.407	12.410	(0.913)	2003818	100.000	100
	71 1,2,3-Trichloropropane	75	12.432	12.434	(0.915)	1530834	100.000	100
	72 n-Propylbenzene	120	12.529	12.532	(0.922)	3252159	100.000	110(Q)
	73 2-Chlorotoluene	126	12.638	12.641	(0.930)	1973615	100.000	100
	74 1,3,5-Trimethylbenzene	105	12.726	12.738	(0.937)	5160208	100.000	100
	75 4-Chlorotoluene	126	12.766	12.769	(0.940)	2024620	100.000	100
M	63 Xylene (Total)	106				8994351	300.000	310
	76 tert-Butylbenzene	119	13.125	13.128	(0.966)	4479375	100.000	100
	77 1,2,4-Trimethylbenzene	105	13.180	13.183	(0.970)	5693883	100.000	100
	78 sec-Butylbenzene	105	13.381	13.383	(0.985)	7012665	100.000	100
	80 1,3-Dichlorobenzene	146	13.514	13.517	(0.995)	3695719	100.000	100
	79 4-Isopropyltoluene	119	13.545	13.548	(0.997)	6161837	100.000	100
*	81 1,4-Dichlorobenzene-d4	152	13.587	13.590	(1.000)	1214737	50.0000	
	82 1,4-Dichlorobenzene	146	13.618	13.621	(1.002)	3637895	100.000	100
	83 n-Butylbenzene	91	14.019	14.016	(1.032)	5308193	100.000	100
	84 1,2-Dichlorobenzene	146	14.044	14.046	(1.034)	3376581	100.000	100
	85 Hexachloroethane	117	14.368	14.351	(1.056)	1143293	100.000	110
	86 1,2-Dibromo-3-chloropropane	75	14.907	14.904	(1.097)	188147	100.000	99
	87 1,2,4-Trichlorobenzene	180	15.826	15.829	(1.165)	2501145	100.000	100
	88 Hexachlorobutadiene	225	16.009	16.011	(1.178)	1332097	100.000	100
	89 Naphthalene	128	16.094	16.097	(1.184)	4006789	100.000	94
	90 1,2,3-Trichlorobenzene	180	16.355	16.352	(1.204)	2075854	100.000	100

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

YD 11/26/02



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021017.B\V6C3424.D
Report Date: 26-Nov-2002 14:31

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021017.B\V6C3424.D
Lab Smp Id: V6S1017D Client Smp ID: VSTD2006I
Inj Date : 17-OCT-2002 17:28
Operator : KEN Inst ID: v6.i
Smp Info : 8260,V6S1017D,VSTD2006I
Misc Info : ,1,5
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021017.B\v68260.m
Meth Date : 11-Nov-2002 16:04 mtl Quant Type: ISTD
Cal Date : 17-OCT-2002 16:04 Cal File: V6C3421.D
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET6

*Concentration Formula: Amt * DF * Uf * 5/Vo*

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	1 Dichlorodifluoromethane	85	2.035	2.044	(0.290)	2054323	200.000	210(A)
	116 Freon114	85	2.212	2.208	(0.315)	2512457	200.000	210(A)
	2 Chloromethane	50	2.270	2.269	(0.323)	3025700	200.000	209
	3 Vinyl Chloride	62	2.425	2.415	(0.345)	3068611	200.000	200(A)
	4 Bromomethane	94	2.808	2.774	(0.399)	2293753	200.000	210(A)
	5 Chloroethane	64	2.942	2.932	(0.418)	1947590	200.000	209
	6 Trichlorofluoromethane	101	3.249	3.236	(0.463)	3626441	200.000	200
	7 Acrolein	56	3.472	3.474	(0.522)	1324929	1000.00	880
	8 1,1-Dichloroethene	96	3.812	3.808	(0.543)	3145857	200.000	200
	111 1,1,2-Trichlo-1,2,2 trifluoro	101	3.842	3.838	(0.547)	2711041	200.000	209(A)
	9 Acetone	43	3.842	3.844	(0.547)	139834	200.000	139
	10 Iodomethane	142	3.970	3.972	(0.565)	4270306	200.000	190
	11 Carbon Disulfide	76	4.047	4.063	(0.579)	6881861	200.000	190
	12 Acetonitrile	40	4.145	4.143	(0.589)	1178216	2000.00	1700(Q)
	13 Allyl Chloride	76	4.195	4.197	(0.597)	1827605	200.000	210(AQ)
	112 Methyl Acetate	43	4.213	4.215	(0.599)	1056242	200.000	190

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021017.B\V6C3424.D
Report Date: 26-Nov-2002 14:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	14 Methylene Chloride	84	4.329	4.331	(0.816)	2789581	200.000	190
	15 Acrylonitrile	53	4.378	4.580	(0.851)	2716468	1000.00	960
	16 trans-1,2-Dichloroethene	96	4.639	4.641	(0.660)	3061543	200.000	200(A)
	17 Methyl tert-butyl ether	73	4.645	4.641	(0.641)	6018471	200.000	190
	18 1,1-Dichloroethane	63	5.095	5.098	(0.725)	4525981	200.000	200
	19 Vinyl acetate	43	5.138	5.134	(0.731)	3205240	200.000	200(A)
	22 2-Butanone	43	5.708	5.730	(0.815)	551574	200.000	180
	23 cis-1,2-Dichloroethene	96	5.734	5.736	(0.815)	3146193	200.000	200
	24 2,2-Dichloropropane	77	5.747	5.742	(0.817)	2701805	200.000	190
	25 Propionitrile	54	5.783	5.785	(0.823)	1944431	2000.00	1800
	26 Methacrylonitrile	41	5.959	5.962	(0.848)	8431116	3000.00	1700
	27 Bromochloromethane	128	5.993	5.992	(0.853)	1612735	200.000	200
	29 Tetrahydrofuran	72	6.056	6.059	(0.862)	201041	200.000	230
	28 Chloroform	83	6.075	6.077	(0.864)	4550265	200.000	190
S	30 Dibromofluoromethane	111	6.251	6.253	(0.889)	2529336	200.000	200(A)
	31 1,1,1-Trichloroethane	97	6.306	6.308	(0.897)	3770958	200.000	200
	113 Cyclohexane	56	6.391	6.393	(0.909)	4006292	200.000	210(A)
	32 1,1-Dichloropropene	110	6.488	6.491	(0.923)	1565957	200.000	210(A)
	33 Carbon Tetrachloride	117	6.502	6.503	(0.925)	1782715	200.000	210(A)
	34 Isobutyl Alcohol	43	6.561	6.570	(0.933)	843116	4000.00	3200
S	35 1,2-Dichloroethane-d4	102	6.640	6.637	(0.945)	610528	200.000	200(A)
	37 Benzene	78	6.719	6.722	(0.956)	10197565	200.000	180
	36 1,2-Dichloroethane	62	6.726	6.722	(0.957)	3067142	200.000	190
M	21 1,2-Dichloroethene (Total)	96				6207954	400.000	400
*	38 Fluorobenzene	96	7.030	7.032	(1.000)	2726895	50.0000	
	39 Trichloroethene	130	7.455	7.458	(1.061)	3429906	200.000	200
	114 Methylcyclohexane	83	7.705	7.707	(1.096)	4859243	200.000	210(A)
	40 1,2-Dichloropropane	63	7.711	7.713	(1.097)	2686491	200.000	200
	41 Methyl Methacrylate	69	7.821	7.823	(1.113)	1426155	200.000	200
	42 Dibromomethane	93	7.851	7.853	(1.117)	1511625	200.000	200
	43 Bromodichloromethane	83	8.023	8.030	(1.142)	3573537	200.000	200
	44 2-Chloroethyl vinyl ether	63	8.374	8.377	(1.191)	537637	200.000	200(A)
	45 cis-1,3-Dichloropropene	75	8.569	8.571	(1.219)	4484910	200.000	190
	46 4-Methyl-2-pentanone	43	8.745	8.748	(1.244)	1253096	200.000	190
S	47 Toluene-d8	98	8.916	8.924	(1.268)	8678419	200.000	180
	48 Toluene	91	9.001	9.003	(1.280)	10113519	200.000	170
	49 trans-1,3-Dichloropropene	75	9.250	9.259	(1.316)	3479922	200.000	200
	50 Ethyl Methacrylate	69	9.360	9.362	(1.331)	2747455	200.000	200
	51 1,1,2-Trichloroethane	97	9.487	9.496	(1.350)	2245008	200.000	200
	53 Tetrachloroethene	164	9.713	9.715	(0.902)	3024983	200.000	200(A)
	52 1,3-Dichloropropane	76	9.713	9.715	(0.902)	3752703	200.000	190
	54 2-Hexanone	43	9.728	9.800	(0.910)	849328	200.000	200
	55 Dibromochloromethane	129	10.011	10.013	(0.929)	2347854	200.000	200(A)
	56 1,2 Dibromoethane	107	10.169	10.177	(0.944)	2326496	200.000	200
	115 t-Chlorohexane	91	10.765	10.767	(0.999)	4064705	200.000	200(Q)
*	57 Chlorobenzene-d5	117	10.771	10.773	(1.000)	2280165	50.0000	
	58 Chlorobenzene	112	10.808	10.810	(1.003)	8034996	200.000	180

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021017.B\V6C3424.D
Report Date: 26-Nov-2002 14:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	59 1,1,1,2-Tetrachloroethane	131	10.899	10.901	(1.013)	3202870	200.000	200
	60 Ethylbenzene	106	10.941	10.944	(1.016)	4895263	200.000	200(AQ)
	61 m,p-Xylene	106	11.067	11.070	(1.029)	10744782	400.000	370(AQ)
	62 o-Xylene	106	11.584	11.583	(1.076)	4068807	200.000	200(AQ)
	64 Styrene	104	11.594	11.595	(1.077)	8441821	200.000	180
	65 Bromoform	173	11.823	11.826	(1.098)	1833514	200.000	200(A)
	66 Isopropylbenzene	105	12.036	12.033	(1.117)	10948378	200.000	170
	67 trans-1,4 Dichloro-2-butene	75	12.091	12.094	(1.123)	909947	200.000	210(A)
S	68 Bromofluorobenzene	95	12.219	12.221	(1.134)	3608387	200.000	200
	69 1,1,2,2-Tetrachloroethane	83	12.371	12.373	(0.910)	2391970	200.000	190
	70 Bromobenzene	156	12.407	12.410	(0.913)	3968770	200.000	200
	71 1,2,3 Trichloropropane	75	12.432	12.434	(0.915)	3048418	200.000	200
	72 n-Propylbenzene	120	12.535	12.532	(0.923)	4447598	200.000	200(AQ)
	73 2-Chlorotoluene	126	12.639	12.641	(0.930)	3811974	200.000	200(Q)
	74 1,3,5-Trimethylbenzene	105	12.736	12.738	(0.937)	9569892	200.000	170
	75 4-Chlorotoluene	126	12.766	12.769	(0.940)	4014842	200.000	200(AQ)
M	63 Xylene (Total)	106				14813589	600.000	570
	76 tert-Butylbenzene	119	13.125	13.128	(0.966)	11929289	200.000	180
	77 1,2,4 Trimethylbenzene	105	13.180	13.183	(0.970)	9751852	200.000	190
	78 sec-Butylbenzene	105	13.381	13.383	(0.985)	11376570	200.000	160
	80 1,3-Dichlorobenzene	146	13.515	13.517	(0.995)	6868282	200.000	180
	79 4-Isopropyltoluene	119	13.545	13.548	(0.997)	10332166	200.000	170
*	81 1,4-Dichlorobenzene-d4	152	13.588	13.590	(1.000)	1247488	50.0000	(Q)
	82 1,4-Dichlorobenzene	146	13.618	13.621	(1.002)	6704441	200.000	180
	83 n-Butylbenzene	91	14.014	14.016	(1.031)	8939253	200.000	170
	84 1,2 Dichlorobenzene	146	14.044	14.046	(1.034)	6341234	200.000	180
	85 Hexachloroethane	117	14.348	14.351	(1.056)	3347874	200.000	220(A)
	86 1,2-Dibromo-3-chloropropane	75	14.908	14.904	(1.097)	383764	200.000	200
	87 1,2,4-Trichlorobenzene	180	15.826	15.829	(1.165)	4789218	200.000	190
	88 Hexachlorobutadiene	225	16.035	16.011	(1.179)	2665276	200.000	200(A)
	89 Naphthalene	128	16.094	16.097	(1.184)	7451709	200.000	170
	90 1,2,3-Trichlorobenzene	180	16.355	16.353	(1.204)	4529728	200.000	190

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

YP 11/18/02

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: V1 Calibration Date: 11/18/02 Time: 1118

Lab File ID: V1F1081 Init. Calib. Date(s): 11/15/02 11/15/02

Heated Purge: (Y/N) N Init. Calib. Times: 1132 1511

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D	
Dichlorodifluoromethane	0.269	0.256	0.01	4.8	20.0	
Chloromethane	0.387	0.373	0.1	3.6	20.0	
Vinyl Chloride	0.329	0.300	0.01	8.8	20.0	
Bromomethane	0.058	0.039	0.01	32.8	20.0	<-
Chloroethane	0.102	0.124	0.01	21.6	20.0	<-
Trichlorofluoromethane	0.147	0.177	0.01	20.4	20.0	<-
1,1-Dichloroethene	0.223	0.220	0.01	1.3	20.0	
Acetone	0.068	0.050	0.01	26.5	20.0	<-
Methylene Chloride	0.295	0.251	0.01	14.9	20.0	
Acrylonitrile	0.047	0.037	0.001	21.3	20.0	<-
trans-1,2-Dichloroethene	0.301	0.273	0.01	9.3	20.0	
Methyl tert-butyl ether	0.429	0.388	0.01	9.6	20.0	
1,1-Dichloroethane	0.523	0.471	0.1	9.9	20.0	
2-Butanone	0.106	0.088	0.01	17.0	20.0	
cis-1,2-Dichloroethene	0.301	0.288	0.01	4.3	20.0	
2,2-Dichloropropane	0.214	0.206	0.01	3.7	20.0	
Bromochloromethane	0.143	0.136	0.01	4.9	20.0	
Chloroform	0.466	0.432	0.01	7.3	20.0	
Tetrahydrofuran	0.031	0.026	0.001	16.1	20.0	
1,1,1-Trichloroethane	0.318	0.310	0.01	2.5	20.0	
1,1-Dichloropropene	0.134	0.130	0.01	3.0	20.0	
Carbon Tetrachloride	0.297	0.296	0.01	0.3	20.0	
1,2-Dichloroethane	0.317	0.300	0.01	5.4	20.0	
Benzene	1.164	1.056	0.01	9.3	20.0	
Trichloroethene	0.255	0.263	0.01	3.1	20.0	
1,2-Dichloropropane	0.300	0.276	0.01	8.0	20.0	
Dibromomethane	0.171	0.161	0.01	5.8	20.0	
Bromodichloromethane	0.339	0.322	0.01	5.0	20.0	
cis-1,3-Dichloropropene	0.442	0.427	0.01	3.4	20.0	
4-Methyl-2-pentanone	0.200	0.177	0.01	11.5	20.0	
Toluene	1.130	1.068	0.01	5.5	20.0	
trans-1,3-Dichloropropene	0.371	0.358	0.01	3.5	20.0	
1,1,2-Trichloroethane	0.232	0.217	0.01	6.5	20.0	
1,3-Dichloropropane	0.605	0.546	0.01	9.8	20.0	
Tetrachloroethene	0.318	0.299	0.01	6.0	20.0	
2-Hexanone	0.199	0.172	0.01	13.6	20.0	
Dibromochloromethane	0.373	0.353	0.01	5.4	20.0	

FORM VII VOA

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: V1 Calibration Date: 11/18/02 Time: 1118

Lab File ID: V1F1081 Init. Calib. Date(s): 11/15/02 11/15/02

Heated Purge: (Y/N) N Init. Calib. Times: 1132 1511

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
1,2-Dibromoethane	0.372	0.342	0.01	8.1	20.0
Chlorobenzene	1.152	1.071	0.3	7.0	20.0
1,1,1,2-Tetrachloroethane	0.351	0.337	0.01	4.0	20.0
Ethylbenzene	0.597	0.560	0.01	6.2	20.0
m,p-Xylene	0.752	0.714	0.01	5.0	20.0
o-Xylene	0.713	0.688	0.01	3.5	20.0
Xylene (Total)	0.739	0.705	0.01	4.6	20.0
Styrene	1.081	1.127	0.01	4.2	20.0
Bromoform	0.218	0.221	0.1	1.4	20.0
Isopropylbenzene	1.675	1.623	0.01	3.1	20.0
1,1,2,2-Tetrachloroethane	0.994	0.829	0.3	16.6	20.0
Bromobenzene	0.859	0.821	0.01	4.4	20.0
1,2,3-Trichloropropane	1.006	0.920	0.01	8.5	20.0
n-Propylbenzene	0.931	0.866	0.01	7.0	20.0
2-Chlorotoluene	0.858	0.788	0.01	8.2	20.0
1,3,5-Trimethylbenzene	2.966	2.704	0.01	8.8	20.0
4-Chlorotoluene	0.895	0.832	0.01	7.0	20.0
tert-Butylbenzene	2.730	2.588	0.01	5.2	20.0
1,2,4-Trimethylbenzene	3.027	2.807	0.01	7.3	20.0
sec-Butylbenzene	3.683	3.378	0.01	8.3	20.0
4-Isopropyltoluene	2.829	2.592	0.01	8.4	20.0
1,3-Dichlorobenzene	1.560	1.499	0.01	3.9	20.0
1,4-Dichlorobenzene	1.721	1.575	0.01	8.5	20.0
n-Butylbenzene	2.605	2.397	0.01	8.0	20.0
1,2-Dichlorobenzene	1.527	1.425	0.01	6.7	20.0
1,2-Dibromo-3-chloropropane	0.130	0.108	0.01	16.9	20.0
1,2,4-Trichlorobenzene	0.792	0.745	0.01	5.9	20.0
Hexachlorobutadiene	0.257	0.247	0.01	3.9	20.0
Naphthalene	1.994	1.663	0.01	16.6	20.0
1,2,3-Trichlorobenzene	0.716	0.644	0.01	10.0	20.0
t-Chlorohexane	0.563	0.514	0.01	8.7	20.0
Dibromofluoromethane	0.255	0.253	0.01	0.8	20.0
1,2-Dichloroethane-d4	0.061	0.056	0.01	8.2	20.0
Toluene-d8	1.397	1.317	0.01	5.7	20.0
Bromofluorobenzene	0.509	0.503	0.01	1.2	20.0

FORM VII VOA

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: V5 Calibration Date: 11/15/02 Time: 2005

Lab File ID: V5E1623 Init. Calib. Date(s): 11/15/02 11/15/02

Heated Purge: (Y/N) Y Init. Calib. Times: 1906 2104

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D	
Dichlorodifluoromethane	0.291	0.311	0.01	6.9	20.0	
Chloromethane	0.553	0.590	0.1	6.7	20.0	
Vinyl Chloride	0.413	0.446	0.01	8.0	20.0	
Bromomethane	0.264	0.294	0.01	11.4	20.0	
Chloroethane	0.223	0.251	0.01	12.6	20.0	
Trichlorofluoromethane	0.281	0.308	0.01	9.6	20.0	
1,1-Dichloroethene	0.269	0.291	0.01	8.2	20.0	
Acetone	0.201	0.199	0.01	1.0	20.0	
Methylene Chloride	0.388	0.410	0.01	5.7	20.0	
trans-1,2-Dichloroethene	0.281	0.301	0.01	7.1	20.0	
Methyl tert-butyl ether	0.963	1.034	0.01	7.4	20.0	
1,1-Dichloroethane	0.608	0.645	0.1	6.1	20.0	
2-Butanone	0.290	0.318	0.01	9.6	20.0	
cis-1,2-Dichloroethene	0.319	0.341	0.01	6.9	20.0	
2,2-Dichloropropane	0.229	0.248	0.01	8.3	20.0	
Bromochloromethane	0.172	0.179	0.01	4.1	20.0	
Chloroform	0.558	0.585	0.01	4.8	20.0	
Tetrahydrofuran	0.060	0.061	0.001	1.7	20.0	
1,1,1-Trichloroethane	0.335	0.357	0.01	6.6	20.0	
1,1-Dichloropropene	0.120	0.126	0.01	5.0	20.0	
Carbon Tetrachloride	0.288	0.305	0.01	5.9	20.0	
1,2-Dichloroethane	0.481	0.508	0.01	5.6	20.0	
Benzene	1.279	1.344	0.01	5.1	20.0	
Trichloroethene	0.272	0.288	0.01	5.9	20.0	
1,2-Dichloropropane	0.381	0.398	0.01	4.5	20.0	
Dibromomethane	0.244	0.255	0.01	4.5	20.0	
Bromodichloromethane	0.457	0.478	0.01	4.6	20.0	
cis-1,3-Dichloropropene	0.606	0.626	0.01	3.3	20.0	
4-Methyl-2-pentanone	0.579	0.611	0.01	5.5	20.0	
Toluene	1.188	1.235	0.01	4.0	20.0	
trans-1,3-Dichloropropene	0.567	0.586	0.01	3.4	20.0	
1,1,2-Trichloroethane	0.307	0.315	0.01	2.6	20.0	
1,3-Dichloropropane	0.824	0.862	0.01	4.6	20.0	
Tetrachloroethene	0.293	0.308	0.01	5.1	20.0	
2-Hexanone	0.593	0.643	0.01	8.4	20.0	
Dibromochloromethane	0.481	0.497	0.01	3.3	20.0	
1,2-Dibromoethane	0.462	0.482	0.01	4.3	20.0	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: V5 Calibration Date: 11/15/02 Time: 2005

Lab File ID: V5E1623 Init. Calib. Date(s): 11/15/02 11/15/02

Heated Purge: (Y/N) Y Init. Calib. Times: 1906 2104

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chlorobenzene	1.037	1.084	0.3	4.5	20.0
1,1,1,2-Tetrachloroethane	0.396	0.408	0.01	3.0	20.0
Ethylbenzene	0.519	0.534	0.01	2.9	20.0
m,p-Xylene	0.649	0.674	0.01	3.8	20.0
o-Xylene	0.661	0.675	0.01	2.1	20.0
Xylene (Total)	0.653	0.675	0.01	3.4	20.0
Styrene	1.182	1.226	0.01	3.7	20.0
Bromoform	0.343	0.362	0.1	5.5	20.0
Isopropylbenzene	1.553	1.583	0.01	1.9	20.0
1,1,2,2-Tetrachloroethane	1.642	1.688	0.3	2.8	20.0
Bromobenzene	1.008	1.006	0.01	0.2	20.0
1,2,3-Trichloropropane	1.893	1.946	0.01	2.8	20.0
n-Propylbenzene	0.870	0.860	0.01	1.1	20.0
2-Chlorotoluene	0.855	0.839	0.01	1.9	20.0
1,3,5-Trimethylbenzene	2.758	2.756	0.01	0.1	20.0
4-Chlorotoluene	0.862	0.866	0.01	0.5	20.0
tert-Butylbenzene	2.982	2.982	0.01	0.0	20.0
1,2,4-Trimethylbenzene	2.837	2.914	0.01	2.7	20.0
sec-Butylbenzene	3.564	3.586	0.01	0.6	20.0
4-Isopropyltoluene	2.646	2.709	0.01	2.4	20.0
1,3-Dichlorobenzene	1.715	1.757	0.01	2.4	20.0
1,4-Dichlorobenzene	1.757	1.797	0.01	2.3	20.0
n-Butylbenzene	2.874	2.999	0.01	4.3	20.0
1,2-Dichlorobenzene	1.662	1.713	0.01	3.1	20.0
1,2-Dibromo-3-chloropropane	0.243	0.274	0.01	12.8	20.0
1,2,4-Trichlorobenzene	0.737	0.763	0.01	3.5	20.0
Hexachlorobutadiene	0.392	0.409	0.01	4.3	20.0
Naphthalene	2.376	2.502	0.01	5.3	20.0
1,2,3-Trichlorobenzene	0.665	0.678	0.01	2.0	20.0
1-Chlorohexane	0.526	0.547	0.01	4.0	20.0
Acrylonitrile	0.088	0.101	0.01	14.8	20.0
Dibromofluoromethane	0.277	0.305	0.01	10.1	20.0
1,2-Dichloroethane-d4	0.067	0.074	0.01	10.4	20.0
Toluene-d8	1.294	1.424	0.01	10.0	20.0
Bromofluorobenzene	0.554	0.585	0.01	5.6	20.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: V6 Calibration Date: 11/14/02 Time: 1122

Lab File ID: V6C3691 Init. Calib. Date(s): 10/17/02 10/17/02

Heated Purge: (Y/N) N Init. Calib. Times: 1604 1824

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D	
Dichlorodifluoromethane	0.177	0.216	0.01	22.0	20.0	<-
Chloromethane	0.283	0.339	0.1	19.8	20.0	
Vinyl Chloride	0.280	0.323	0.01	15.4	20.0	
Bromomethane	0.203	0.222	0.01	9.4	20.0	
Chloroethane	0.182	0.194	0.01	6.6	20.0	
Trichlorofluoromethane	0.335	0.407	0.01	21.5	20.0	<-
1,1-Dichloroethene	0.291	0.266	0.01	8.6	20.0	
Acetone	0.047	0.042	0.01	10.6	20.0	
Methylene Chloride	0.268	0.243	0.01	9.3	20.0	
Acrylonitrile	0.052	0.052	0.001	0.0	20.0	
trans-1,2-Dichloroethene	0.275	0.261	0.01	5.1	20.0	
Methyl tert-butyl ether	0.589	0.567	0.01	3.7	20.0	
1,1-Dichloroethane	0.425	0.404	0.1	4.9	20.0	
2-Butanone	0.057	0.054	0.01	5.3	20.0	
cis-1,2-Dichloroethene	0.292	0.276	0.01	5.5	20.0	
2,2-Dichloropropane	0.260	0.234	0.01	10.0	20.0	
Bromochloromethane	0.149	0.135	0.01	9.4	20.0	
Chloroform	0.440	0.422	0.01	4.1	20.0	
Tetrahydrofuran	0.016	0.018	0.001	12.5	20.0	
1,1,1-Trichloroethane	0.353	0.330	0.01	6.5	20.0	
1,1-Dichloropropene	0.134	0.130	0.01	3.0	20.0	
Carbon Tetrachloride	0.332	0.328	0.01	1.2	20.0	
1,2-Dichloroethane	0.302	0.282	0.01	6.6	20.0	
Benzene	1.015	1.003	0.01	1.2	20.0	
Trichloroethene	0.315	0.287	0.01	8.9	20.0	
1,2-Dichloropropane	0.251	0.246	0.01	2.0	20.0	
Dibromomethane	0.143	0.134	0.01	6.3	20.0	
Bromodichloromethane	0.335	0.313	0.01	6.6	20.0	
cis-1,3-Dichloropropene	0.424	0.395	0.01	6.8	20.0	
4-Methyl-2-pentanone	0.122	0.117	0.01	4.1	20.0	
Toluene	1.100	1.119	0.01	1.7	20.0	
trans-1,3-Dichloropropene	0.358	0.333	0.01	7.0	20.0	
1,1,2-Trichloroethane	0.210	0.197	0.01	6.2	20.0	
1,3-Dichloropropane	0.428	0.427	0.01	0.2	20.0	
Tetrachloroethene	0.328	0.304	0.01	7.3	20.0	
2-Hexanone	0.095	0.098	0.01	3.2	20.0	
Dibromochloromethane	0.320	0.315	0.01	1.6	20.0	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

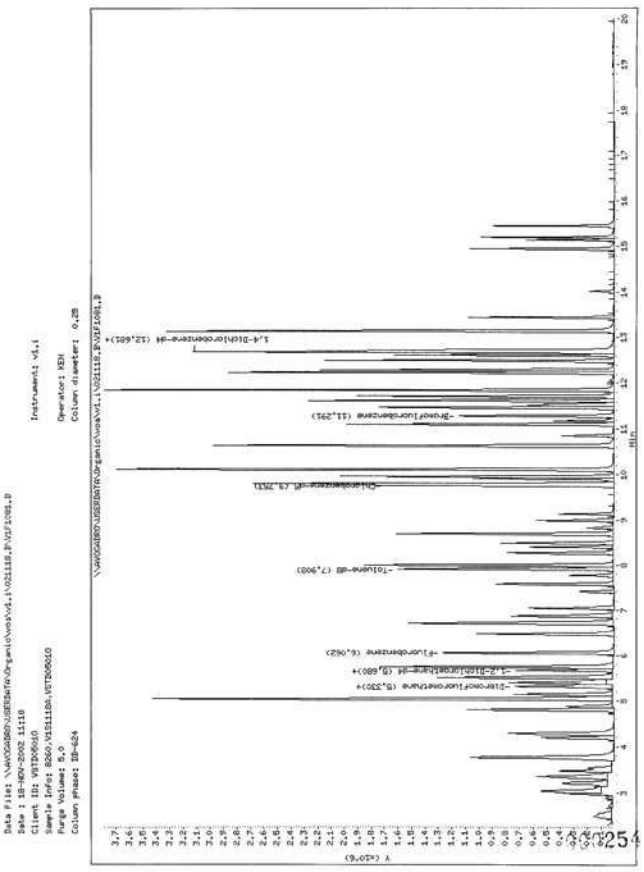
Instrument ID: V6 Calibration Date: 11/14/02 Time: 1122

Lab File ID: V6C3691 Init. Calib. Date(s): 10/17/02 10/17/02

Heated Purge: (Y/N) N Init. Calib. Times: 1604 1824

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D	
1,2-Dibromoethane	0.257	0.251	0.01	2.3	20.0	
Chlorobenzene	0.979	0.976	0.3	0.3	20.0	
1,1,1,2-Tetrachloroethane	0.355	0.348	0.01	2.0	20.0	
Ethylbenzene	0.534	0.525	0.01	1.7	20.0	
m,p-Xylene	0.640	0.652	0.01	1.9	20.0	
o-Xylene	0.662	0.648	0.01	2.1	20.0	
Xylene (Total)	0.648	0.650	0.01	0.3	20.0	
Styrene	1.030	1.061	0.01	3.0	20.0	
Bromoform	0.198	0.194	0.1	2.0	20.0	
Isopropylbenzene	1.435	1.534	0.01	6.9	20.0	
1,1,2,2-Tetrachloroethane	0.494	0.512	0.3	3.6	20.0	
Bromobenzene	0.801	0.781	0.01	2.5	20.0	
1,2,3-Trichloropropane	0.624	0.672	0.01	7.7	20.0	
n-Propylbenzene	0.868	0.873	0.01	0.6	20.0	
2-Chlorotoluene	0.769	0.756	0.01	1.7	20.0	
1,3,5-Trimethylbenzene	2.238	2.356	0.01	5.3	20.0	
4-Chlorotoluene	0.794	0.794	0.01	0.0	20.0	
tert-Butylbenzene	2.635	2.798	0.01	6.2	20.0	
1,2,4-Trimethylbenzene	2.290	2.443	0.01	6.7	20.0	
sec-Butylbenzene	2.795	3.111	0.01	11.3	20.0	
4-Isopropyltoluene	2.440	2.646	0.01	8.4	20.0	
1,3-Dichlorobenzene	1.493	1.482	0.01	0.7	20.0	
1,4-Dichlorobenzene	1.501	1.506	0.01	0.3	20.0	
n-Butylbenzene	2.097	2.393	0.01	14.1	20.0	
1,2-Dichlorobenzene	1.380	1.366	0.01	1.0	20.0	
1,2-Dibromo-3-chloropropane	0.078	0.078	0.01	0.0	20.0	
1,2,4-Trichlorobenzene	1.008	0.973	0.01	3.5	20.0	
Hexachlorobutadiene	0.528	0.486	0.01	8.0	20.0	
Naphthalene	1.749	1.635	0.01	6.5	20.0	
1,2,3-Trichlorobenzene	0.858	0.819	0.01	4.5	20.0	
1-Chlorohexane	0.457	0.470	0.01	2.8	20.0	
Dibromofluoromethane	0.228	0.252	0.01	10.5	20.0	
1,2-Dichloroethane-d4	0.055	0.063	0.01	14.5	20.0	
Toluene-d8	1.053	1.286	0.01	22.1	20.0	<-
Bromofluorobenzene	0.398	0.447	0.01	12.3	20.0	



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\V1F1081.D
Report Date: 26-Nov-2002 14:33

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\V1F1081.D
Lab Smp Id: V1S1118A Client Smp ID: VSTD050IO
Inj Date : 18-NOV-2002 11:18
Operator : KEN Inst ID: v1.i
Smp Info : 8260,V1S1118A,VSTD050IO
Misc Info : ,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\v18260.m
Meth Date : 26-Nov-2002 12:19 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 14:27 Cal File: V1F1047.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	1 Dichlorodifluoromethane	85	1.522	1.522	(0.251)	410243	50.0000	48
	2 Chloromethane	50	1.692	1.692	(0.279)	596859	50.0000	48
	3 Vinyl Chloride	62	1.808	1.808	(0.298)	681162	50.0000	46
	4 Bromomethane	94	2.116	2.116	(0.349)	63159	50.0000	34
	5 Chloroethane	64	2.243	2.243	(0.370)	198037	50.0000	60
	6 Trichlorofluoromethane	101	2.498	2.498	(0.412)	283621	50.0000	60
	8 1,1-Dichloroethene	96	3.028	3.028	(0.500)	351879	50.0000	49
	9 Acetone	43	3.049	3.049	(0.503)	79556	50.0000	36
	10 Iodomethane	142	3.187	3.187	(0.526)	424570	50.0000	47
	11 Carbon Disulfide	76	3.230	3.230	(0.533)	982394	50.0000	43
	14 Methylene Chloride	84	3.484	3.484	(0.575)	402104	50.0000	42
	15 Acrylonitrile	53	3.728	3.728	(0.615)	295455	250.000	200
	16 trans-1,2-Dichloroethene	96	3.771	3.771	(0.622)	437889	50.0000	45
	17 Methyl tert-butyl ether	73	3.781	3.781	(0.624)	621787	50.0000	45
	18 1,1-Dichloroethane	63	4.195	4.195	(0.692)	755158	50.0000	45
	19 Vinyl acetate	43	4.259	4.259	(0.703)	725801	50.0000	44

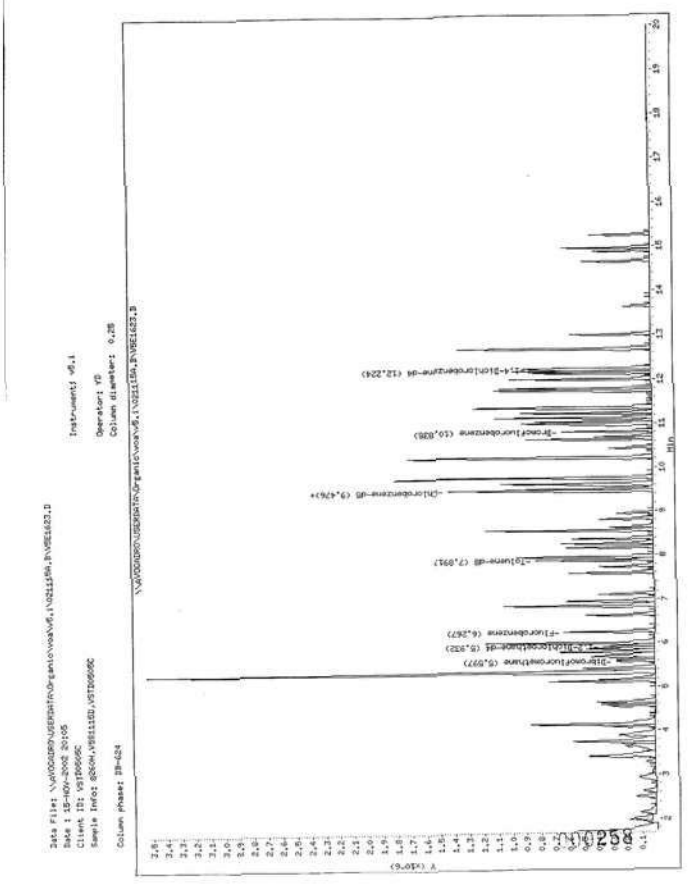
Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\V1F1081.D
Report Date: 26-Nov-2002 14:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	22 2-Butanone	43	4.831	4.831	(0.797)	141195	50.0000	42
	23 Tetrahydrofuran	72	5.128	5.128	(0.846)	42096	50.0000	42
	21 cis-1,2-Dichloroethene	96	4.810	4.810	(0.793)	461694	50.0000	48
	24 2,2-Dichloropropane	77	4.800	4.800	(0.792)	329553	50.0000	48
	27 Bromochloromethane	128	5.054	5.054	(0.834)	217273	50.0000	47
	28 Chloroform	83	5.150	5.150	(0.850)	692270	50.0000	46
S	30 Dibromofluoromethane	113	5.319	5.319	(0.878)	405194	50.0000	50
	31 1,1,1-Trichloroethane	97	5.341	5.341	(0.881)	496182	50.0000	49
	32 1,1-Dichloropropene	110	5.532	5.532	(0.913)	306873	50.0000	48
	33 Carbon Tetrachloride	117	5.532	5.532	(0.913)	474308	50.0000	50
S	35 1,2-Dichloroethane-d4	102	5.680	5.680	(0.937)	90643	50.0000	47
	37 Benzene	78	5.744	5.744	(0.948)	1692337	50.0000	45
	36 1,2-Dichloroethane	62	5.765	5.765	(0.951)	479741	50.0000	47
*	38 Fluorobenzene	96	6.062	6.062	(1.000)	1601631	50.0000	
	39 Trichloroethene	130	6.476	6.476	(1.068)	421403	50.0000	51
	40 1,2-Dichloropropane	63	6.720	6.720	(1.108)	442727	50.0000	46
	42 Dibromomethane	93	6.857	6.857	(1.131)	258199	50.0000	47
	41 Bromodichloromethane	83	7.048	7.048	(1.163)	516666	50.0000	48
	45 cis-1,3-Dichloropropene	75	7.579	7.579	(1.250)	684052	50.0000	48
	46 4-Methyl-2-pentanone	43	7.770	7.770	(1.282)	283536	50.0000	44
S	47 Toluene-d8	98	7.908	7.908	(0.811)	1430064	50.0000	47
	48 Toluene	91	7.992	7.992	(1.318)	1710364	50.0000	47
	49 trans-1,3-Dichloropropene	75	8.268	8.268	(1.364)	573761	50.0000	48
	51 1,1,2-Trichloroethane	97	8.491	8.491	(1.401)	347186	50.0000	47
	52 1,3-Dichloropropane	76	8.703	8.703	(0.892)	592856	50.0000	45
	53 Tetrachloroethene	164	8.682	8.682	(0.890)	324789	50.0000	47
	54 2-Hexanone	43	8.820	8.820	(0.904)	186899	50.0000	43
	55 Dibromochloromethane	129	8.990	8.990	(0.922)	383296	50.0000	47
	56 1,2-Dibromoethane	107	9.127	9.127	(0.936)	373059	50.0000	46
	115 1-Chlorohexane	91	9.775	9.775	(1.002)	558215	50.0000	46
*	57 Chlorobenzene-d5	117	9.753	9.753	(1.000)	1086054	50.0000	
	58 Chlorobenzene	112	9.785	9.785	(1.003)	1162987	50.0000	46
	59 1,1,1,2-Tetrachloroethane	131	9.902	9.902	(1.015)	385954	50.0000	48
	60 Ethylbenzene	106	9.944	9.944	(1.020)	608261	50.0000	47
	61 m,p-Xylene	106	10.103	10.103	(1.036)	1550681	100.000	95
	62 o-Xylene	106	10.623	10.623	(1.089)	747212	50.0000	48
	64 Styrene	104	10.644	10.644	(1.091)	1223967	50.0000	52
	65 Bromoform	173	10.867	10.867	(1.114)	239635	50.0000	50
	66 Isopropylbenzene	105	11.111	11.111	(1.139)	1761038	50.0000	48
S	68 Bromofluorobenzene	95	11.291	11.291	(1.158)	546636	50.0000	49
	69 1,1,2,2-Tetrachloroethane	83	11.472	11.472	(0.906)	451126	50.0000	42
	70 Bromobenzene	156	11.461	11.461	(0.903)	446856	50.0000	48
	71 1,2,3-Trichloropropane	75	11.514	11.514	(0.907)	500783	50.0000	46
	72 n-Propylbenzene	120	11.620	11.620	(0.916)	471549	50.0000	46
	73 2-Chlorotoluene	126	11.716	11.716	(0.923)	428945	50.0000	46
	74 1,3,5-Trimethylbenzene	105	11.843	11.843	(0.933)	1471308	50.0000	46
	75 4-Chlorotoluene	126	11.854	11.854	(0.934)	452550	50.0000	46

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\V1F1081.D
Report Date: 26-Nov-2002 14:33

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	76 tert-Butylbenzene	119	12.236	12.236	(0.964)	1408177	50.0000	47
	77 1,2,4-Trimethylbenzene	105	12.299	12.299	(0.969)	1527798	50.0000	46
	78 sec-Butylbenzene	105	12.501	12.501	(0.985)	1838537	50.0000	46
	80 1,3-Dichlorobenzene	146	12.617	12.617	(0.994)	815666	50.0000	48
	79 4-Isopropyltoluene	119	12.681	12.681	(0.999)	1410642	50.0000	46
*	81 1,4-Dichlorobenzene-d4	152	12.692	12.692	(1.000)	544217	50.0000	
	82 1,4-Dichlorobenzene	146	12.723	12.723	(1.002)	856939	50.0000	46
	83 n-Butylbenzene	91	13.148	13.148	(1.036)	1304551	50.0000	46
	84 1,2-Dichlorobenzene	146	13.148	13.148	(1.036)	775359	50.0000	47
M	63 Xylene (Total)	106				2297893	150.000	140
	86 1,2-Dibromo-3-chloropropane	75	14.028	14.028	(1.105)	58896	50.0000	42
	87 1,2,4-Trichlorobenzene	180	14.951	14.951	(1.178)	405646	50.0000	47
	88 Hexachlorobutadiene	225	15.142	15.142	(1.193)	134530	50.0000	48
	89 Naphthalene	128	15.206	15.206	(1.198)	904960	50.0000	42
	90 1,2,3-Trichlorobenzene	180	15.471	15.471	(1.219)	350638	50.0000	45

KD 11/26/02



000258

Data File: V5E1623.D
Report Date: 26-Nov-2002 14:32

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\V5E1623.D
Lab Smp Id: V5S1115D Client Smp ID: VSTD0505C
Inj Date : 15-NOV-2002 20:05
Operator : YD Inst ID: v5.i
Smp Info : 8260H,V5S1115D,VSTD0505C
Misc Info : ,1,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\v58260H.m
Meth Date : 26-Nov-2002 12:06 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 20:05 Cal File: V5E1623.D
Als bottle: 20 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1,000	Dilution Factor
Uf	1,000	ng unit correction factor
Ws	5,000	Weight of sample (g)
M	0,000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.816	1.816	(0.290)	191048	50.0000	50
2 Chloromethane	50	2.003	2.003	(0.320)	362123	50.0000	49
3 Vinyl Chloride	62	2.151	2.151	(0.343)	274176	50.0000	49
4 Bromomethane	94	2.504	2.504	(0.400)	180796	50.0000	55
5 Chloroethane	64	2.634	2.634	(0.420)	154183	50.0000	53
6 Trichlorofluoromethane	101	2.899	2.899	(0.463)	189225	50.0000	48
8 1,1-Dichloroethene	96	3.431	3.431	(0.547)	178548	50.0000	50
9 Acetone	43	3.441	3.441	(0.549)	122178	50.0000	56
111 1,1,2-Trichlo-1,2,2-trifluoro	101	3.441	3.441	(0.549)	155872	50.0000	49
10 Iodomethane	142	3.589	3.589	(0.573)	244802	50.0000	51
11 Carbon Disulfide	76	3.658	3.658	(0.584)	543806	50.0000	50
112 Methyl Acetate	43	3.776	3.776	(0.602)	320141	50.0000	52
14 Methylene Chloride	84	3.914	3.914	(0.624)	251734	50.0000	52
116 Acrylonitrile	53	4.110	4.110	(0.656)	310155	250.000	270
16 trans-1,2-Dichloroethene	96	4.160	4.160	(0.664)	184641	50.0000	51

000259

Data File: V5E1623.D
Report Date: 26-Nov-2002 14:32

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
17 Methyl tert-butyl ether	73	4.160	4.160	(0.664)	635152	50.0000	51
18 1,1-Dichloroethane	63	4.563	4.563	(0.728)	396254	50.0000	51
19 Vinyl acetate	43	4.615	4.615	(0.736)	764705	50.0000	50
23 cis-1,2-Dichloroethene	96	5.134	5.134	(0.819)	209433	50.0000	52
22 2-Butanone	43	5.134	5.134	(0.819)	195156	50.0000	52
29 Tetrahydrofuran	72	5.134	5.134	(0.819)	37282	50.0000	50
24 2,2-Dichloropropane	77	5.134	5.134	(0.819)	152398	50.0000	52
27 Bromochloromethane	128	5.371	5.371	(0.857)	110013	50.0000	51
28 Chloroform	83	5.440	5.440	(0.868)	359018	50.0000	51
S 30 Dibromofluoromethane	113	5.597	5.597	(0.893)	187410	50.0000	52
31 1,1,1-Trichloroethane	97	5.636	5.636	(0.899)	219464	50.0000	51
113 Cyclohexane	56	5.705	5.705	(0.910)	321984	50.0000	50
32 1,1-Dichloropropene	110	5.794	5.794	(0.925)	97423	50.0000	50
33 Carbon Tetrachloride	117	5.804	5.804	(0.926)	187441	50.0000	50
S 35 1,2-Dichloroethane-d4	102	5.932	5.932	(0.947)	45749	50.0000	52
37 Benzene	78	6.001	6.001	(0.958)	825366	50.0000	51
38 1,2-Dichloroethane	62	6.001	6.001	(0.958)	312258	50.0000	53
* 36 Fluorobenzene	96	6.267	6.267	(1.000)	914021	50.0000	
39 Trichloroethene	130	6.641	6.641	(1.060)	177091	50.0000	51
114 Methylcyclohexane	83	6.848	6.848	(1.093)	284848	50.0000	49
40 1,2-Dichloropropane	63	6.867	6.867	(1.096)	244209	50.0000	52
42 Dibromomethane	93	6.986	6.986	(1.115)	156688	50.0000	52
43 Bromodichloromethane	83	7.143	7.143	(1.140)	293617	50.0000	52
45 cis-1,3-Dichloropropene	75	7.606	7.606	(1.214)	384546	50.0000	51
46 4-Methyl-2-pentanone	43	7.753	7.753	(1.237)	375218	50.0000	50
S 47 Toluene-d8	98	7.901	7.901	(0.834)	625231	50.0000	53
48 Toluene	91	7.970	7.970	(1.272)	758161	50.0000	51
49 trans-1,3-Dichloropropene	75	8.187	8.187	(1.306)	359786	50.0000	53
51 1,1,2-Trichloroethane	97	8.384	8.384	(1.338)	193642	50.0000	52
53 Tetrachloroethene	164	8.571	8.571	(0.904)	135439	50.0000	51
52 1,3-Dichloropropane	76	8.571	8.571	(0.904)	379285	50.0000	53
54 2-Hexanone	43	8.649	8.649	(0.913)	282431	50.0000	51
55 Dibromochloromethane	129	8.827	8.827	(0.931)	219185	50.0000	53
56 1,2-Dibromoethane	107	8.964	8.964	(0.946)	211400	50.0000	52
* 57 Chlorobenzene-d5	117	9.476	9.476	(1.000)	438978	50.0000	
115 1-Chlorohexane	91	9.476	9.476	(1.000)	240188	50.0000	50
58 Chlorobenzene	112	9.516	9.516	(1.004)	475924	50.0000	52
59 1,1,1,2-Tetrachloroethane	131	9.604	9.604	(1.014)	179930	50.0000	53
60 Ethylbenzene	106	9.634	9.634	(1.017)	234199	50.0000	51
61 m,p-Xylene	106	9.772	9.772	(1.031)	592175	100.000	100
62 o-Xylene	106	10.225	10.225	(1.079)	296367	50.0000	51
64 Styrene	104	10.235	10.235	(1.080)	538413	50.0000	51
65 Bromoform	173	10.451	10.451	(1.103)	159100	50.0000	52
66 Isopropylbenzene	105	10.658	10.658	(1.125)	694901	50.0000	50
S 68 Bromofluorobenzene	95	10.835	10.835	(1.143)	256935	50.0000	51
69 1,1,2,2-Tetrachloroethane	83	10.993	10.993	(0.899)	377168	50.0000	53
70 Bromobenzene	156	11.032	11.032	(0.902)	224838	50.0000	50

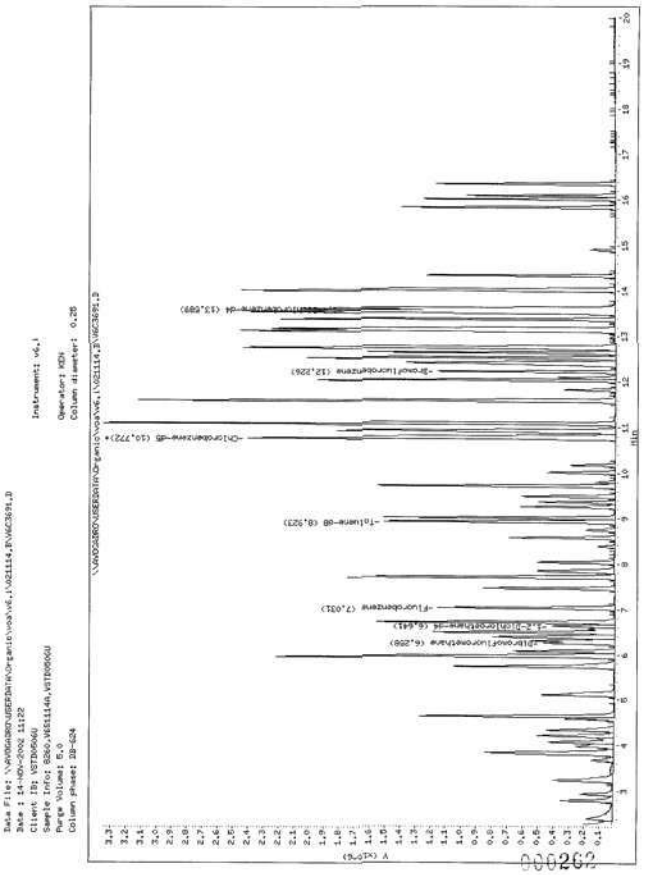
000260

Data File: V5E1623.D
Report Date: 26-Nov-2002 14:32

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
71 1,2,3-Trichloropropane	75	11.052	11.052	(0.904)	434822	50.0000	51
72 n-Propylbenzene	120	11.140	11.140	(0.911)	192125	50.0000	49
73 2-Chlorotoluene	126	11.249	11.249	(0.920)	187608	50.0000	49
74 1,3,5-Trimethylbenzene	105	11.347	11.347	(0.928)	616046	50.0000	50
75 4-Chlorotoluene	126	11.377	11.377	(0.931)	191468	50.0000	50
76 tert-Butylbenzene	119	11.751	11.751	(0.961)	466442	50.0000	49
77 1,2,4-Trimethylbenzene	105	11.800	11.800	(0.965)	651344	50.0000	51
78 sec-Butylbenzene	105	12.007	12.007	(0.982)	801462	50.0000	50
80 1,3-Dichlorobenzene	146	12.145	12.145	(0.994)	392712	50.0000	51
79 4-Isopropyltoluene	119	12.184	12.184	(0.997)	605495	50.0000	50
* 81 1,4-Dichlorobenzene-d4	152	12.224	12.224	(1.000)	223491	50.0000	
82 1,4-Dichlorobenzene	146	12.253	12.253	(1.002)	401627	50.0000	53
83 n-Butylbenzene	91	12.686	12.686	(1.038)	670266	50.0000	50
84 1,2-Dichlorobenzene	146	12.706	12.706	(1.039)	382855	50.0000	52
M 63 Xylenes (Total)	106				888643	150.000	150
86 1,2-Dibromo-3-chloropropane	75	13.651	13.651	(1.117)	51312	50.0000	56
87 1,2,4-Trichlorobenzene	180	14.685	14.685	(1.201)	170560	50.0000	49
88 Hexachlorobutadiene	225	14.902	14.902	(1.219)	91415	50.0000	49
89 Naphthalene	128	14.980	14.980	(1.226)	559126	50.0000	51
90 1,2,3-Trichlorobenzene	180	15.286	15.286	(1.251)	151518	50.0000	49

KD 11/26/02

000261



000262

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3691.D
Report Date: 26-Nov-2002 14:31

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3691.D
Lab Smp Id: V6S1114A Client Smp ID: VSTD0506U
Inj Date : 14-NOV-2002 11:22
Operator : KEN Inst ID: v6.i
Smp Info : 8260,V6S1114A,VSTD0506U
Misc Info : ,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\v68260.m
Meth Date : 26-Nov-2002 12:24 mtl Quant Type: ISTD
Cal Date : 17-OCT-2002 18:24 Cal File: V6C3426.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT STO MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1	Dichlorodifluoromethane	85	2.036	2.036	(0.269)	330278	50.0000	61
2	Chloromethane	50	2.373	2.373	(0.313)	518591	50.0000	60
3	Vinyl Chloride	62	2.619	2.619	(0.344)	494696	50.0000	58
4	Bromomethane	94	2.809	2.809	(0.369)	339272	50.0000	54
5	Chloroethane	64	2.942	2.942	(0.418)	297275	50.0000	53
6	Trichlorofluoromethane	101	3.235	3.235	(0.460)	623162	50.0000	62
8	1,1-Dichloroethene	96	3.811	3.811	(0.542)	497495	50.0000	66
9	Acetone	43	3.849	3.849	(0.547)	61950	50.0000	64
10	Iodomethane	142	3.977	3.977	(0.565)	601138	50.0000	67
11	Carbon Disulfide	76	4.074	4.074	(0.579)	1022528	50.0000	53
14	Methylene Chloride	84	4.336	4.336	(0.616)	171293	50.0000	45
15	Acrylonitrile	53	4.591	4.591	(0.652)	394706	250.000	250
16	trans-1,2-Dichloroethene	96	4.648	4.648	(0.660)	399930	50.0000	48
17	Methyl tert-butyl ether	73	4.648	4.648	(0.660)	868038	50.0000	48
18	1,1-Dichloroethane	63	5.096	5.096	(0.724)	617544	50.0000	47
19	Vinyl acetate	43	5.145	5.145	(0.731)	460951	50.0000	52

000263

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3691.D
Report Date: 26-Nov-2002 14:31

	Compounds	QUANT STO MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
22	2-Butanone	43	5.735	5.735	(0.815)	81271	50.0000	47
29	Tetrahydrofuran	72	5.069	5.069	(0.963)	28292	50.0000	58
23	cis-1,3-Dichloroethene	96	5.725	5.735	(0.815)	421155	50.0000	47
24	2,2-Dichloropropane	77	5.741	5.741	(0.816)	357659	50.0000	45
27	Bromochloromethane	128	5.996	5.996	(0.852)	206650	50.0000	45
28	Chloroform	83	6.082	6.082	(0.864)	647601	50.0000	48
S 30	Dibromofluoromethane	113	6.258	6.258	(0.889)	385115	50.0000	55
31	1,1,1-Trichloroethane	97	6.313	6.313	(0.897)	595535	50.0000	47
32	1,1-Dichloropropene	110	6.495	6.495	(0.923)	199399	50.0000	48
33	Carbon Tetrachloride	117	6.567	6.567	(0.925)	501480	50.0000	49
S 35	1,2-Dichloroethane-D4	102	6.641	6.641	(0.944)	96027	50.0000	57
37	Benzene	78	6.726	6.726	(0.956)	1535133	50.0000	49
36	1,2-Dichloroethane	62	6.726	6.726	(0.956)	431862	50.0000	47
* 38	Fluorobenzene	96	7.037	7.037	(1.000)	1530309	50.0000	
39	Trichloroethene	130	7.463	7.463	(1.061)	439825	50.0000	46
40	1,2-Dichloropropane	63	7.718	7.718	(1.097)	376005	50.0000	49
42	Dibromomethane	93	7.858	7.858	(1.117)	205609	50.0000	47
43	Bromodichloromethane	83	8.034	8.034	(1.142)	478755	50.0000	47
45	cis-1,3-Dichloropropene	75	8.576	8.576	(1.219)	604028	50.0000	46
46	4 Methyl 2 pentanone	43	8.746	8.746	(1.243)	179499	50.0000	48
S 47	Toluene-d8	98	8.923	8.923	(0.828)	1576590	50.0000	53
48	Toluene	91	9.008	9.008	(1.280)	1712820	50.0000	53
49	trans-1,3-Dichloropropene	75	9.257	9.257	(1.316)	503610	50.0000	46
51	1,1,2-Trichloroethane	97	9.494	9.494	(1.349)	302006	50.0000	47
53	1,3-Dichloropropane	76	9.711	9.711	(0.902)	523785	50.0000	50
55	Tetrachloroethene	164	9.720	9.720	(0.902)	372464	50.0000	46
54	2-Hexanone	43	9.805	9.805	(0.910)	120639	50.0000	52
56	Dibromochloromethane	129	10.018	10.018	(0.930)	386114	50.0000	49
58	1,2-Dibromoethane	107	10.174	10.174	(0.945)	326215	50.0000	49
115	3-Chlorohexane	91	10.766	10.766	(0.999)	576589	50.0000	51
* 97	Chlorobenzene-d5	117	10.772	10.772	(1.000)	1225663	50.0000	
59	Chlorobenzene	112	10.808	10.808	(1.003)	1195789	50.0000	50
59	1,1,1,2-Tetrachloroethane	131	10.806	10.806	(1.003)	426490	50.0000	49
60	Ethylbenzene	106	10.942	10.942	(1.016)	643195	50.0000	49
61	m,p-Xylene	106	11.088	11.088	(1.029)	1597195	100.000	100
62	o-Xylene	106	11.587	11.587	(1.076)	794119	50.0000	49
64	Styrene	104	11.595	11.595	(1.077)	1300603	50.0000	52
65	Bromoform	173	11.824	11.824	(1.098)	237673	50.0000	49
66	Isopropylbenzene	105	12.037	12.037	(1.117)	1679602	50.0000	53
S 68	Bromofluorobenzene	95	12.224	12.225	(1.135)	567473	50.0000	56
69	1,1,2,2-Tetrachloroethane	83	12.378	12.378	(0.911)	745652	50.0000	50
70	Bromobenzene	156	12.414	12.414	(0.914)	537327	50.0000	49
71	1,2,3-Trichloropropane	75	12.439	12.439	(0.915)	453588	50.0000	54(H)
72	n-Propylbenzene	120	12.536	12.536	(0.923)	585849	50.0000	50
73	2-Chlorotoluene	126	12.646	12.646	(0.931)	510737	50.0000	49
74	1,3,5-Trimethylbenzene	105	12.743	12.743	(0.938)	1590858	50.0000	53
75	4-Chlorotoluene	126	12.767	12.767	(0.940)	535913	50.0000	50

000264

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3691.D
Report Date: 26-Nov-2002 14:31

	Compounds	QUANT STO MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
76	tert-Butylbenzene	119	13.132	13.132	(0.966)	1889976	50.0000	53
77	1,2,4-Trimethylbenzene	105	13.187	13.187	(0.970)	1649911	50.0000	53
78	sec-Butylbenzene	105	13.388	13.388	(0.985)	2101306	50.0000	54
80	1,3-Dichlorobenzene	146	13.523	13.523	(0.995)	1001144	50.0000	50
79	4 Isopropyltoluene	119	13.552	13.553	(0.997)	1767045	50.0000	54
* 81	1,4-Dichlorobenzene-d4	152	13.589	13.589	(1.000)	675366	50.0000	
82	1,4-Dichlorobenzene	146	13.619	13.619	(1.002)	1017248	50.0000	50
83	n-Butylbenzene	91	14.021	14.021	(1.032)	1615931	50.0000	57
84	1,2-Dichlorobenzene	146	14.051	14.051	(1.034)	992618	50.0000	50(H)
M 63	Xylene (Total)	106				2391611	150.000	150
86	1,2-Dibromo-3-chloropropane	75	14.909	14.909	(1.097)	52944	50.0000	58
87	1,2,4-Trichlorobenzene	180	15.827	15.827	(1.165)	657288	50.0000	48
88	Hexachlorobutadiene	225	16.016	16.016	(1.179)	328258	50.0000	46
89	Naphthalene	128	16.095	16.095	(1.184)	1154007	50.0000	47
90	1,2,3-Trichlorobenzene	180	16.363	16.363	(1.204)	552883	50.0000	48

QC Flag Legend

H - Operator selected an alternate compound hit.

KP 11/26/02

000265

Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.1\021118.B\VLF1040.D Page 2

Date : 18-NOV-2002 10:58

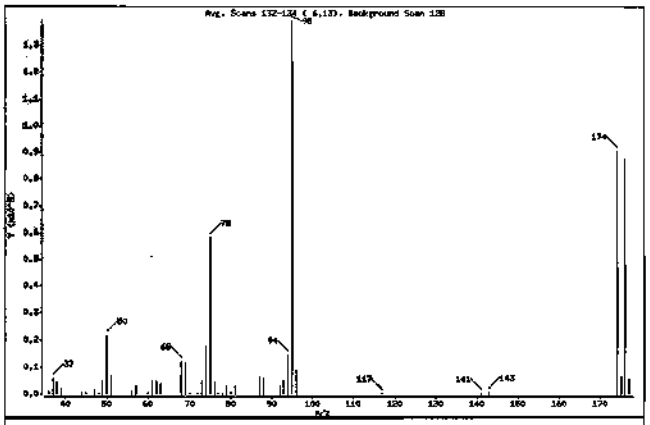
Client ID: BFBLM Instrument: v1.1

Sample Info: 8260,VLT11180,BFBLM

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.37
75	30.00 - 60.00% of mass 95	41.94
96	5.00 - 9.00% of mass 95	6.86
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	64.98
175	5.00 - 9.00% of mass 174	4.93 (7.58)
176	95.00 - 101.00% of mass 174	63.00 (96.96)
177	5.00 - 9.00% of mass 176	4.14 (6.58)

Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.1\021118.B\VLF1040.D Page 3

Date : 18-NOV-2002 10:58

Client ID: BFBLM Instrument: v1.1

Sample Info: 8260,VLT11180,BFBLM

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Data File: VLF1040.D
Spectrum: Avg. Scans 132-134 (6.13), Background Scan 128
Location of Maximum: 95.00
Number of points: 44

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	984	57.00	3140	76.00	4873	96.00	9086
37.00	5632	60.00	940	77.00	492	117.00	349
38.00	4470	61.00	6261	78.00	241	141.00	480
39.00	1967	62.00	4867	79.00	3329	142.00	634
44.00	632	63.00	3771	80.00	825	174.00	90834
45.00	838	68.00	12068	81.00	3292	175.00	6864
47.00	1487	69.00	12002	87.00	6868	176.00	87784
48.00	403	70.00	644	88.00	6942	177.00	8778
49.00	4847	72.00	367	92.00	3648		
50.00	21408	73.00	4537	93.00	4979		
51.00	7064	74.00	17684	94.00	14542		
86.00	1219	75.00	58432	95.00	129328		

Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.1\021118.B\VLF1040.D Page 4

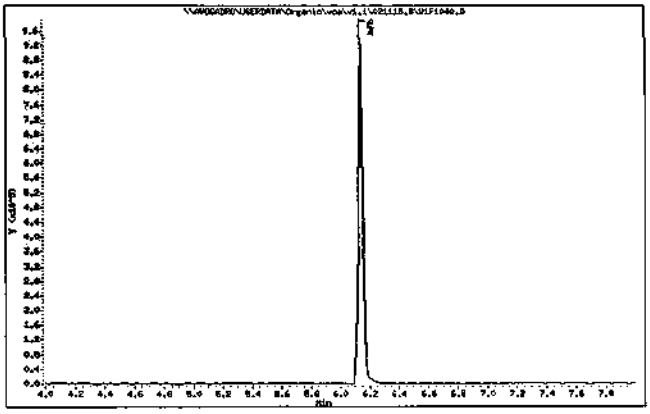
Date : 18-NOV-2002 10:58

Client ID: BFBLM Instrument: v1.1

Sample Info: 8260,VLT11180,BFBLM

Operator: KEN

Column phase: DB-624 Column diameter: 0.25



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.1\021118.B\VLF1080A.D Page 2

Date : 18-NOV-2002 10:41

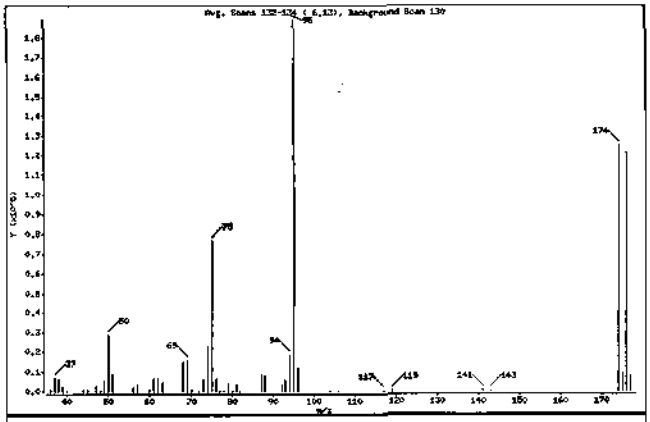
Client ID: BFB10 Instrument: v1.1

Sample Info: 8260,VLT11180,BFB10

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.17
75	30.00 - 60.00% of mass 95	40.49
96	5.00 - 9.00% of mass 95	6.64
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	66.22
175	5.00 - 9.00% of mass 174	4.90 (7.40)
176	95.00 - 101.00% of mass 174	64.34 (97.15)
177	5.00 - 9.00% of mass 176	4.18 (6.49)

Data File: \\AVOCADRO\USERDATA\Organic\voa\v1.i\021110,B\V1F10800,D Page 3

Date : 10-NOV-2002 10:41

Client ID: BF810 Instrument: v1.i

Sample Info: 8260,VSI11180,BF810

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Data File: V1F10800,D
Spectrum: Avg. Scans 122-134 (4.53), Background Scan 110
Location of Maximum: 95.00
Number of points: 49

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1279	57.00	3939	77.00	636	104.00	354
37.00	7127	60.00	1389	78.00	467	106.00	400
38.00	6482	61.00	6649	79.00	3676	117.00	534
39.00	2416	62.00	6942	80.00	969	119.00	411
40.00	338	63.00	4722	81.00	3884	141.00	696
44.00	763	68.00	15895	82.00	412	143.00	649
46.00	1118	69.00	16029	87.00	8928	174.00	125876
47.00	2868	70.00	823	88.00	8444	175.00	9291
48.00	829	72.00	571	92.00	3911	176.00	121992
49.00	8841	73.00	6259	93.00	6192	177.00	7922
50.00	28769	74.00	23360	94.00	18609		
51.00	8987	75.00	76760	95.00	199868		
56.00	2138	76.00	6070	96.00	12894		

Data File: \\AVOCADRO\USERDATA\Organic\voa\v1.i\021110,B\V1F10800,D Page 1

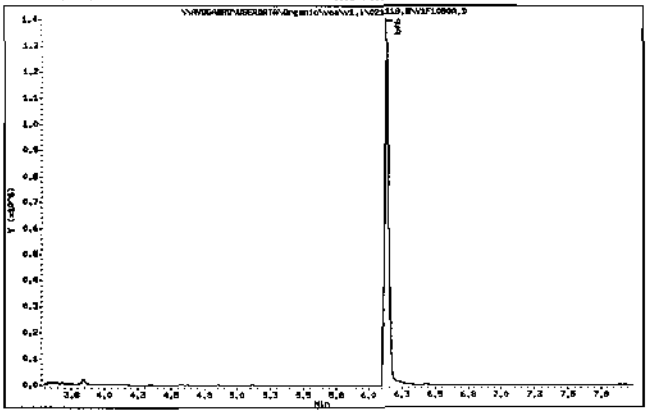
Date : 10-NOV-2002 10:41

Client ID: BF810 Instrument: v1.i

Sample Info: 8260,VSI11180,BF810

Operator: KEN

Column phase: DB-624 Column diameter: 0.25



Data File: \\AVOCADRO\USERDATA\Organic\voa\v8.i\021110A,B\VSE1620,D Page 2

Date : 10-NOV-2002 16:36

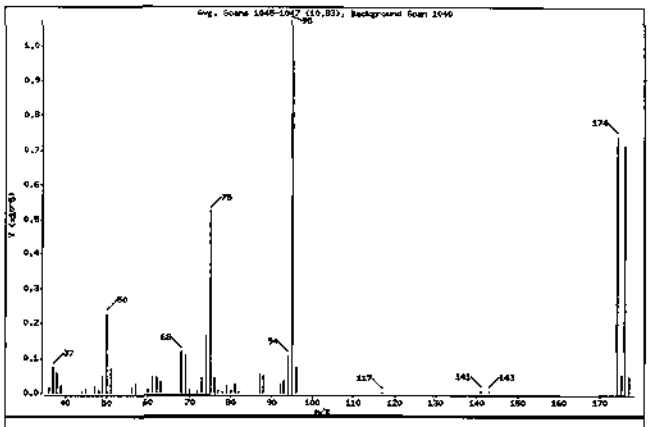
Client ID: BF85C Instrument: v8.i

Sample Info: 8260M,VSI11187,BF85C

Operator: VD

Column phase: DB-624 Column diameter: 0.25

1 ug



m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative Abundance	100.00
80	15.00 - 40.00% of mass 95	22.26
75	30.00 - 60.00% of mass 95	48.80
96	5.00 - 9.00% of mass 95	6.82
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	69.01
175	5.00 - 9.00% of mass 174	8.14 (7.48)
176	95.00 - 101.00% of mass 174	96.99 (96.49)
177	5.00 - 9.00% of mass 176	4.34 (6.51)

Data File: \\AVOCADRO\USERDATA\Organic\voa\v8.i\VSE1620A,B\VSE1620,D Page 3

Date : 10-NOV-2002 16:36

Client ID: BF85C Instrument: v8.i

Sample Info: 8260M,VSI11188,BF85C

Operator: VD

Column phase: DB-624 Column diameter: 0.25

Data File: VSE1620,D
Spectrum: Avg. Scans 1045-1047 (10.83), Background Scan 1040
Location of Maximum: 95.00
Number of points: 45

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1626	57.00	2773	76.00	4381	98.00	107416
37.00	7435	60.00	972	77.00	648	94.00	7321
38.00	8909	61.00	6884	78.00	396	117.00	210
39.00	2313	62.00	4673	79.00	2344	141.00	695
44.00	904	63.00	3309	80.00	648	143.00	488
46.00	1161	68.00	16861	81.00	2602	174.00	74529
47.00	1979	69.00	16790	82.00	372	175.00	8823
48.00	798	70.00	880	87.00	8664	176.00	71826
49.00	4980	72.00	384	88.00	8341	177.00	4689
50.00	22832	73.00	4413	92.00	2454		
51.00	7011	74.00	14464	93.00	3709		
56.00	1634	75.00	52424	94.00	10952		

Data File: \\WVDCARD\USERDATA\Organic\voa\v6.1\021168.B\VSE1620.D

Page 1

Date : 16-NOV-2002 18:26

Client ID: BF88C

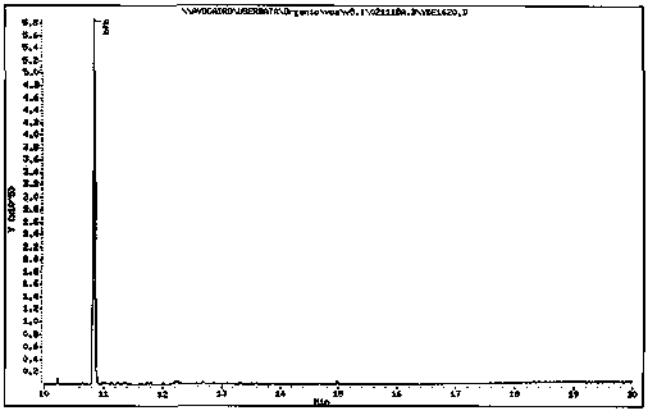
Instrument: v6.1

Sample Info: 8260M,VST11169,BF88C

Operator: VB

Column phase: DB-624

Column diameter: 0.25



Data File: \\WVDCARD\USERDATA\Organic\voa\v6.1\021017.B\WSC3420.D

Page 2

Date : 17-OCT-2002 18:34

Client ID: BF86I

Instrument: v6.1

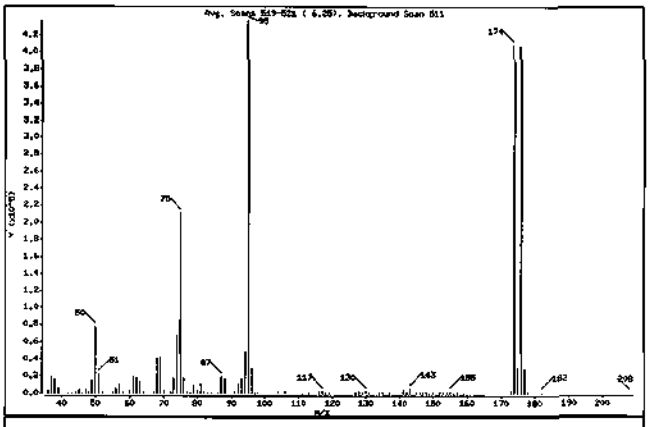
Sample Info: 8260,VST10170,BF86I

Operator: KEN

Column phase: DB-624

Column diameter: 0.20

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.62
75	30.00 - 60.00% of mass 95	48.20
96	5.00 - 9.00% of mass 95	6.62
173	Less than 2.00% of mass 174	0.57 (0.61)
174	50.00 - 100.00% of mass 95	93.49
175	5.00 - 9.00% of mass 174	6.69 (7.16)
176	95.00 - 101.00% of mass 174	93.13 (99.62)
177	5.00 - 9.00% of mass 176	6.40 (6.87)

Data File: \\WVDCARD\USERDATA\Organic\voa\v6.1\021017.B\WSC3420.D

Page 3

Date : 17-OCT-2002 18:34

Client ID: BF86I

Instrument: v6.1

Sample Info: 8260,VST10170,BF86I

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Data File: WSC3420.D
Spectrum: Avg. Scans 619-621 (6.25), Background Scan 611
Location of Maximum: 95.00
Number of points: 98

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2976	68.00	40944	96.00	28928	145.00	531
37.00	19008	69.00	43488	97.00	1054	146.00	643
38.00	10879	70.00	2880	98.00	229	147.00	323
39.00	6209	71.00	412	104.00	1751	148.00	1448
42.00	171	72.00	2304	106.00	1800	149.00	389
43.00	53	73.00	16528	109.00	426	150.00	218
44.00	5444	74.00	60664	111.00	274	152.00	573
45.00	3736	75.00	250488	117.00	731	153.00	634
46.00	168	76.00	18104	118.00	190	154.00	626
47.00	4424	77.00	2909	116.00	1680	166.00	1731
48.00	1527	78.00	1489	117.00	2318	156.00	90
49.00	15020	79.00	9997	118.00	1338	157.00	1060
50.00	77000	80.00	3963	119.00	1313	159.00	421
51.00	24992	81.00	10836	120.00	382	161.00	356
52.00	1182	82.00	2483	127.00	866	173.00	2506
55.00	1101	83.00	218	128.00	1724	174.00	408640
56.00	8904	84.00	308	129.00	234	175.00	29240
57.00	10807	86.00	773	130.00	1940	176.00	407104
58.00	874	87.00	18768	131.00	728	177.00	27960
60.00	3317	88.00	16928	134.00	680	178.00	727
61.00	19032	91.00	2001	136.00	731	180.00	149
62.00	17832	92.00	11371	137.00	444	182.00	516
63.00	13202	93.00	17376	141.00	2719	208.00	236
64.00	1334	94.00	49728	142.00	1674		
67.00	1206	95.00	437120	143.00	8439		

Data File: \\WVDCARD\USERDATA\Organic\voa\v6.1\021017.B\WSC3420.D

Page 4

Date : 17-OCT-2002 18:34

Client ID: BF86I

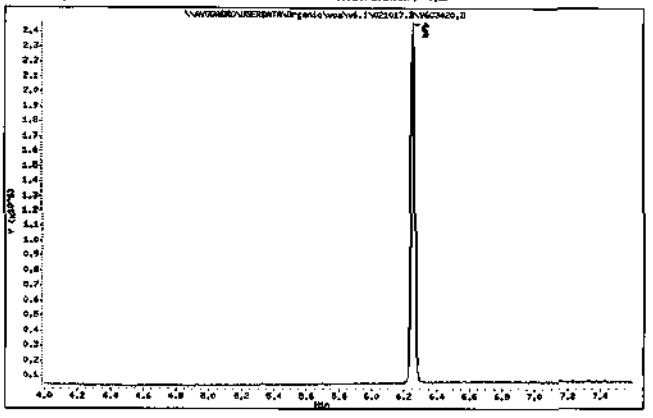
Instrument: v6.1

Sample Info: 8260,VST10170,BF86I

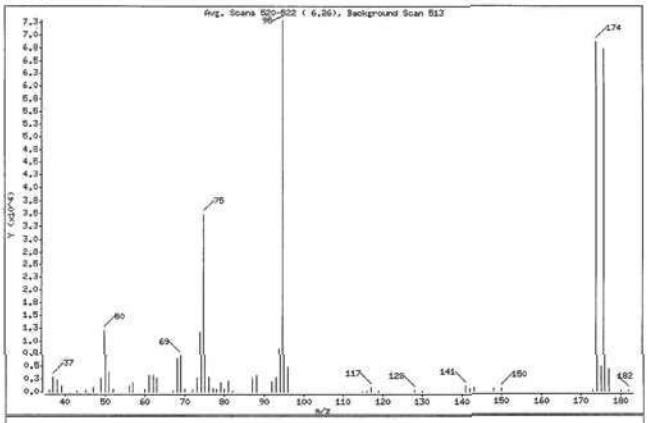
Operator: KEN

Column phase: DB-624

Column diameter: 0.25



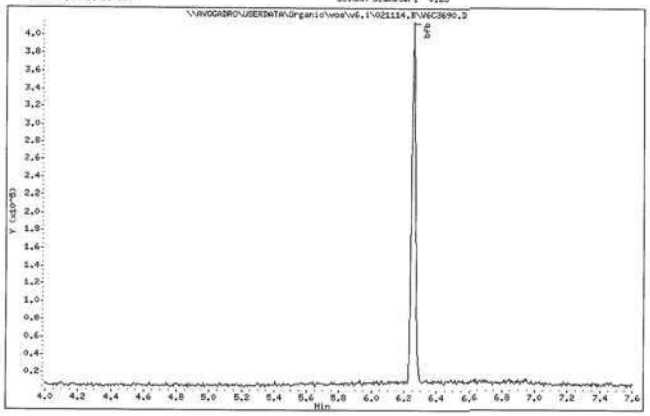
1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
80	15.00 - 40.00% of mass 95	16.44
75	30.00 - 60.00% of mass 95	47.70
96	5.00 - 9.00% of mass 95	6.67
173	Less than 2.00% of mass 174	0.32 (0.34)
174	50.00 - 100.00% of mass 95	94.12
175	5.00 - 9.00% of mass 174	6.78 (7.21)
176	95.00 - 101.00% of mass 174	92.09 (97.85)
177	5.00 - 9.00% of mass 176	5.98 (6.38)

Data File: V6C3690.D
Spectrum: Avg. Scans 520-522 (6.26), Background Scan 513
Location of Maximum: 95.00
Number of points: 57

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	265	62.00	3182	81.00	2127	141.00	1129
37.00	2852	63.00	2608	82.00	193	142.00	630
38.00	2781	67.00	218	87.00	2869	143.00	724
39.00	1201	68.00	6616	88.00	3269	148.00	424
43.00	179	69.00	7092	92.00	2088	150.00	458
45.00	413	70.00	440	93.00	2891	173.00	237
47.00	882	72.00	591	94.00	8396	174.00	68704
49.00	2608	73.00	2731	95.00	73000	175.00	4961
50.00	11998	74.00	11555	96.00	4866	176.00	67224
51.00	3868	75.00	34824	115.00	28	177.00	4290
52.00	470	76.00	2849	116.00	182	180.00	185
56.00	1149	77.00	699	117.00	790	182.00	187
57.00	1810	78.00	427	119.00	107		
60.00	471	79.00	1902	128.00	294		
61.00	3207	80.00	453	130.00	214		



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK10

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: V1B1118A
Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1082
Level: (low/med) MED Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 11/18/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	250	U
74-87-3	Chloromethane	250	U
75-01-4	Vinyl Chloride	250	U
74-83-9	Bromomethane	250	U
75-00-3	Chloroethane	250	U
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	250	U
67-64-1	Acetone	250	U
75-09-2	Methylene Chloride	250	U
107-13-1	Acrylonitrile	250	U
156-60-5	trans-1,2-Dichloroethene	250	U
1634-04-4	Methyl tert-butyl ether	250	U
75-34-3	1,1-Dichloroethane	250	U
78-93-3	2-Butanone	250	U
156-59-2	cis-1,2-Dichloroethene	250	U
590-20-7	2,2-Dichloropropane	250	U
74-97-5	Bromochloromethane	250	U
67-66-3	Chloroform	250	U
109-99-9	Tetrahydrofuran	250	U
71-55-6	1,1,1-Trichloroethane	250	U
563-58-6	1,1-Dichloropropene	250	U
56-23-5	Carbon Tetrachloride	250	U
107-06-2	1,2-Dichloroethane	250	U
71-43-2	Benzene	250	U
79-01-6	Trichloroethene	53	J
78-87-5	1,2-Dichloropropane	250	U
74-95-3	Dibromomethane	250	U
75-27-4	Bromodichloromethane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-10-1	4-Methyl-2-pentanone	250	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
79-00-5	1,1,2-Trichloroethane	250	U
142-28-9	1,3-Dichloropropane	250	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK1O

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: V1B1118A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1082

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/18/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	250	U
591-78-6	2-Hexanone	250	U
124-48-1	Dibromochloromethane	250	U
106-93-4	1,2-Dibromoethane	250	U
108-90-7	Chlorobenzene	250	U
630-20-6	1,1,1,2-Tetrachloroethane	250	U
100-41-4	Ethylbenzene	250	U
----------	m,p-Xylene	250	U
95-47-6	o-Xylene	250	U
1330-20-7	Xylene (Total)	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
98-82-8	Isopropylbenzene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
108-86-1	Bromobenzene	250	U
96-18-4	1,2,3-Trichloropropane	250	U
103-65-1	n-Propylbenzene	250	U
95-49-8	2-Chlorotoluene	250	U
108-67-8	1,3,5-Trimethylbenzene	250	U
106-43-4	4-Chlorotoluene	250	U
98-06-6	tert-Butylbenzene	250	U
95-63-6	1,2,4-Trimethylbenzene	250	U
135-98-8	sec-Butylbenzene	250	U
99-87-6	4-Isopropyltoluene	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
104-51-8	n-Butylbenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U
87-68-3	Hexachlorobutadiene	150	J
91-20-3	Naphthalene	250	U
87-61-6	1,2,3-Trichlorobenzene	250	U
544-10-5	1-Chlorohexane	250	U

FORM I VOA OLM03.0

000281

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK1O

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: V1B1118A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1082

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/18/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

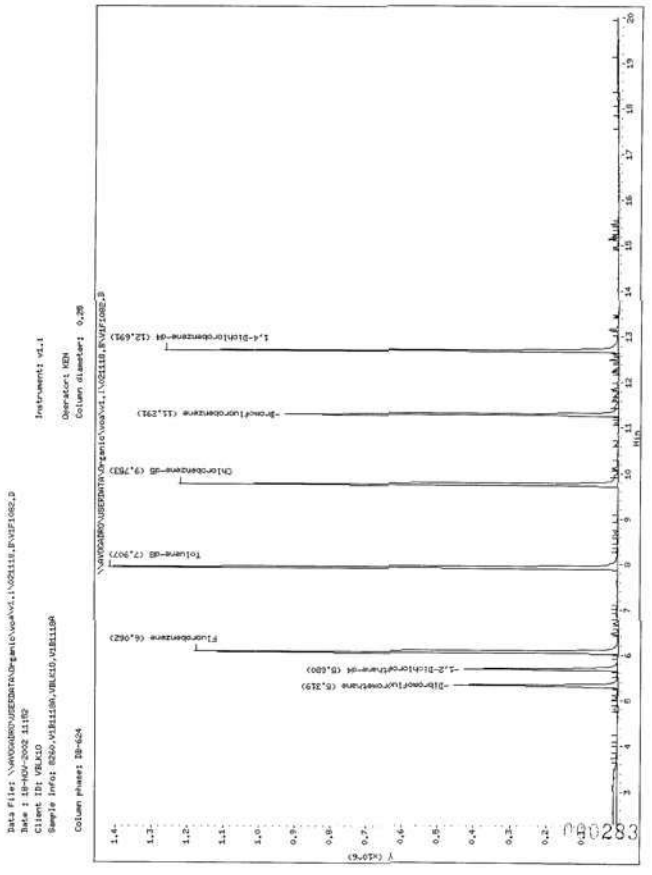
Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

282



000283

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\V1F1082.D
Report Date: 26-Nov-2002 14:33

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\V1F1082.D
Lab Smp Id: V1B1118A Client Smp ID: VBLK1O
Inj Date : 18-NOV-2002 11:52
Operator : KEN Inst ID: v1.i
Smp Info : 8260,V1B1118A,VBLK1O,V1B1118A
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\v18260.m
Meth Date : 26-Nov-2002 12:19 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 14:27 Cal File: V1F1047.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf*(Vt*5000)/(Va*Ws*((100-M)/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)
Vt	5.000	Methanol extract volume (mL)
Va	100.000	Aliquot of methanol (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
$ 30 Dibromofluoromethane	113	5.319	5.319	(0.877)	373325	50.2584	2500
$ 35 1,2-Dichloroethane-d4	102	5.680	5.680	(0.937)	82617	46.7873	2300
* 38 Fluorobenzene	96	6.061	6.062	(1.000)	1455825	50.0000	
39 Trichloroethene	130	6.475	6.476	(1.068)	7955	1.06673	53(a)
$ 47 Toluene-d8	98	7.907	7.908	(0.811)	1324823	48.9925	2400
* 57 Chlorobenzene-d5	117	9.753	9.753	(1.000)	967788	50.0000	
$ 68 Bromofluorobenzene	95	11.291	11.291	(1.158)	474337	48.1529	2400
* 81 1,4-Dichlorobenzene-d4	152	12.691	12.692	(1.000)	621700	50.0000	
88 Hexachlorobutadiene	225	15.152	15.142	(1.194)	6143	2.93068	150(a)

YD 11/26/02

000284

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\V1F1082.D
Report Date: 26-Nov-2002 14:33

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

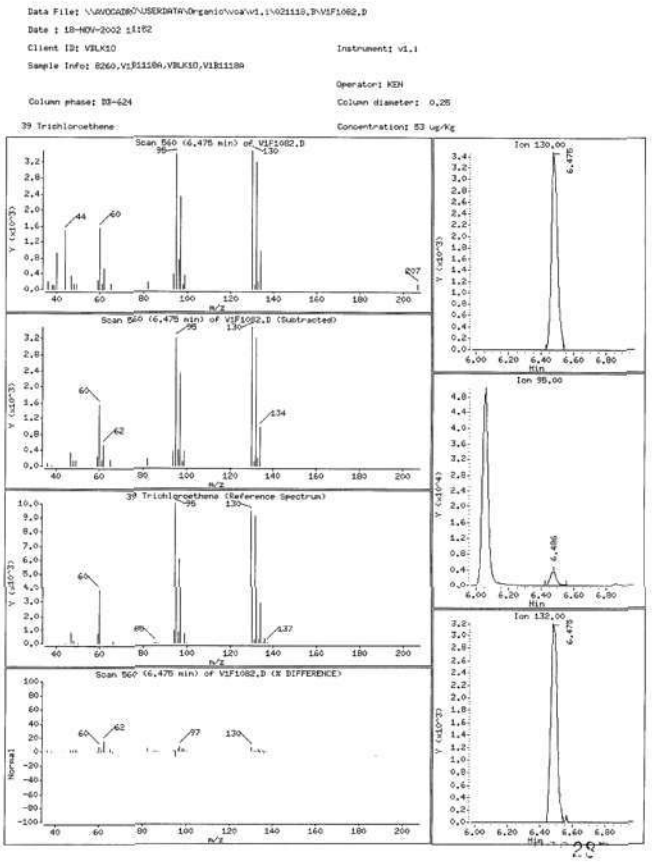
Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\V1F1082.D
Report Date: 26-Nov-2002 14:33

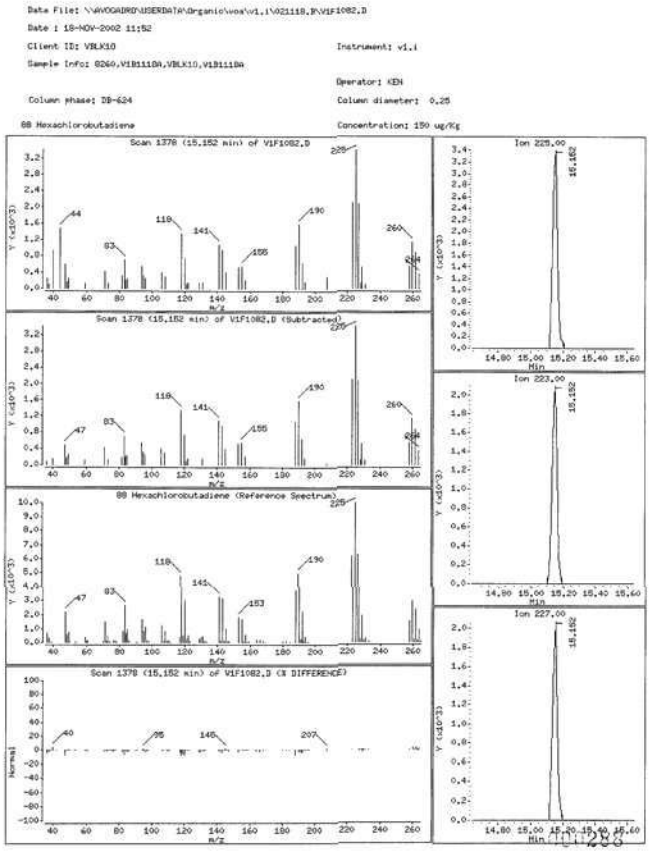
Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\V1F1082.D
Lab Smp Id: V1B1118A Client Smp ID: VBLK1O
Inj Date : 18-NOV-2002 11:52
Operator : KEN Inst ID: v1.i
Smp Info : 8260,V1B1118A,VBLK1O,V1B1118A
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\v18260.m
Meth Date : 26-Nov-2002 12:19 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 14:27 Cal File: V1F1047.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

- NO TENTATIVELY IDENTIFIED COMPOUNDS -





1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK5C

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: V5B1115B

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E1626

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/15/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK5C

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: V5B1115B

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E1626

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/15/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U
107-13-1	Acrylonitrile	5	U

FORM I VOA OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK5C

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: V5B1115B

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E1626

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/15/02

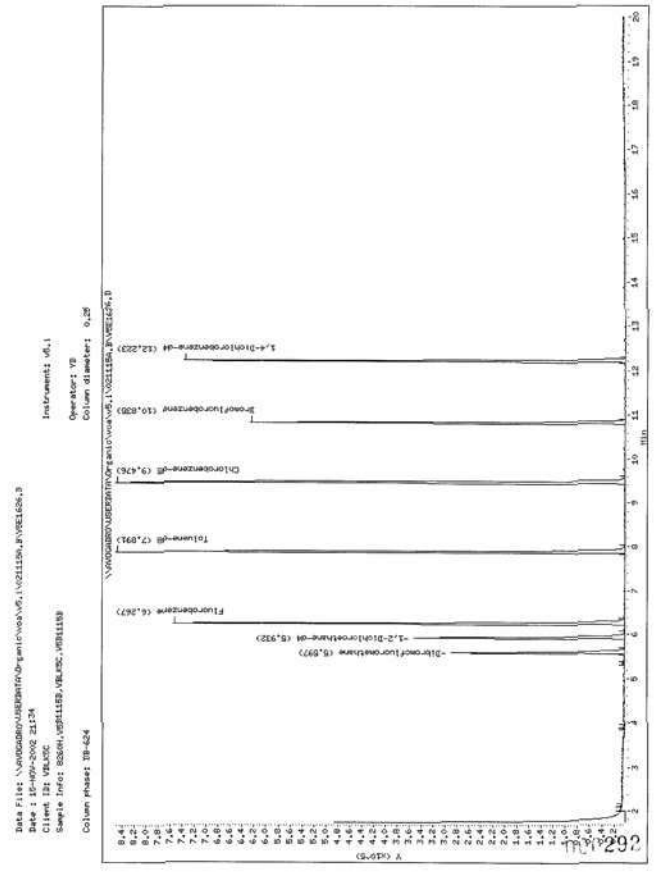
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0



Data File: V5E1626.D
Report Date: 26-Nov-2002 14:32

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\V5E1626.D
Lab Smp Id: V5B1115B Client Smp ID: VBLK5C
Inj Date : 15-NOV-2002 21:34
Operator : YD Inst ID: v5.i
Smp Info : 8260H,V5B1115B,VBLK5C,V5B1115B
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\v58260H.m
Meth Date : 26-Nov-2002 12:06 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 21:04 Cal File: V5E1625.D
Als bottle: 23 QC Sample: BLANK ✓
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
**********	****	**	******	******	********	*******	*******
$ 30 Dibromofluoromethane	113	9.997	9.997	(0.993)	266260	49.2871	49
$ 35 1,2-Dichloroethane-d4	102	9.853	9.853	(0.967)	90325	49.0744	49
* 38 Fluorobenzene	96	10.267	10.267	(1.000)	761940	50.0000	
$ 47 Toluene-d8	98	12.801	12.801	(0.912)	662751	48.7891	49
* 57 Chlorobenzene-d5	117	14.486	14.476	(1.000)	540958	50.0000	
$ 68 Bromofluorobenzene	95	16.836	16.815	(1.162)	272551	45.6323	46
* 82 1,4-Dichlorobenzene-d4	152	17.253	17.224	(1.000)	272102	50.0000	

000293

Data File: V5E1626.D
Report Date: 26-Nov-2002 14:32

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\V5E1626.D
Lab Smp Id: V5B1115B Client Smp ID: VBLK5C
Inj Date : 15-NOV-2002 21:34
Operator : YD Inst ID: v5.i
Smp Info : 8260H,V5B1115B,VBLK5C,V5B1115B
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\v58260H.m
Meth Date : 26-Nov-2002 12:06 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 21:04 Cal File: V5E1625.D
Als bottle: 23 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

000294

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: VBLK6U

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: V6B1114A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3692
Level: (low/med) LOW Date Received:
% Moisture: not dec. Date Analyzed: 11/14/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U

FORM I VOA OLM03.0

000295

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: VBLK6U

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: V6B1114A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3692
Level: (low/med) LOW Date Received:
% Moisture: not dec. Date Analyzed: 11/14/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
----------	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

000296

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK6U

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: V6B1114A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3692

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/14/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

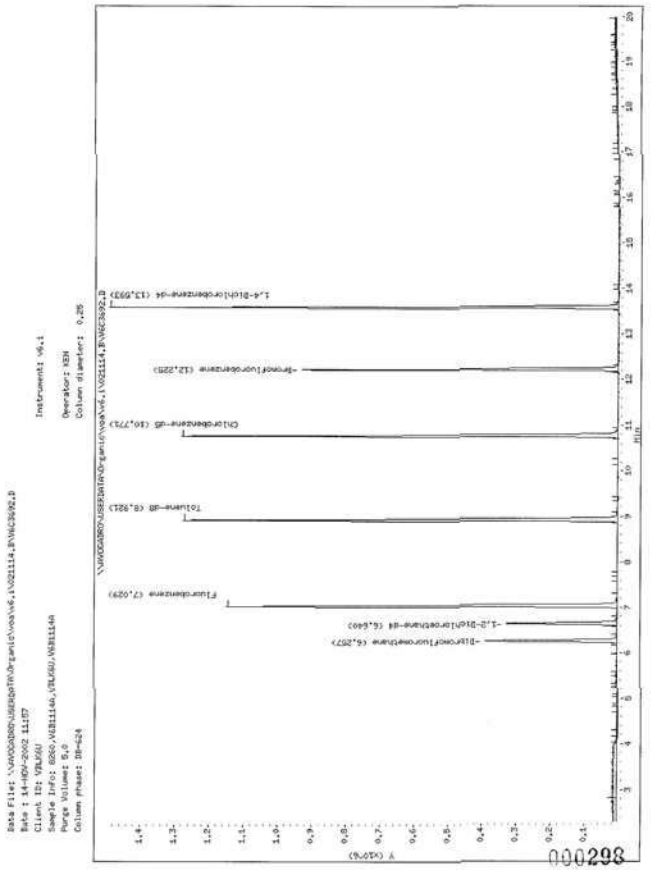
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0

000297



000298

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3692.D
Report Date: 26-Nov-2002 14:31

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3692.D
Lab Smp Id: V6B1114A Client Smp ID: VBLK6U
Inj Date : 14-NOV-2002 11:57
Operator : KEN Inst ID: v6.i
Smp Info : 8260,V6B1114A,VBLK6U,V6B1114A
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\v68260.m
Meth Date : 26-Nov-2002 12:24 mtl Quant Type: ISTD
Cal Date : 17-OCT-2002 18:24 Cal File: V6C3426.D
Als bottle: 2 QC Sample: BLANK✓
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 30 Dibromofluoromethane	113	6.257	6.258	(0.830)	320807	46.1497	46
$ 35 1,2-Dichloroethane-d4	102	6.640	6.641	(0.945)	75032	44.4501	44
* 36 Fluorobenzene	96	7.029	7.037	(1.000)	1527065	50.0000	
$ 47 Toluene-d8	98	8.921	8.923	(0.828)	1349776	54.0663	54
* 57 Chlorobenzene-d5	117	10.771	10.772	(1.000)	1185436	50.0000	
$ 68 Bromofluorobenzene	95	12.225	12.226	(1.135)	445230	47.2029	47
* 81 1,4-Dichlorobenzene-d4	152	13.593	13.589	(1.000)	615508	50.0000	

VD
11/26/02

000299

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3692.D
Report Date: 26-Nov-2002 14:31

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3692.D
Lab Smp Id: V6B1114A Client Smp ID: VBLK6U
Inj Date : 14-NOV-2002 11:57
Operator : KEN Inst ID: v6.i
Smp Info : 8260,V6B1114A,VBLK6U,V6B1114A
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\v68260.m
Meth Date : 26-Nov-2002 12:24 mtl Quant Type: ISTD
Cal Date : 17-OCT-2002 18:24 Cal File: V6C3426.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

000300

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: V1OLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: V1L1118B

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1085

Level: (low/med) MED Date Received: ______

% Moisture: not dec. ______ Date Analyzed: 11/18/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2400	
74-87-3	Chloromethane	2300	
75-01-4	Vinyl Chloride	2200	
74-83-9	Bromomethane	1700	
75-00-3	Chloroethane	3000	
75-69-4	Trichlorofluoromethane	2600	
75-35-4	1,1-Dichloroethene	2200	
67-64-1	Acetone	1800	
75-09-2	Methylene Chloride	2100	
107-13-1	Acrylonitrile	9700	
156-60-5	trans-1,2-Dichloroethene	2100	
1634-04-4	Methyl tert-butyl ether	2200	
75-34-3	1,1-Dichloroethane	2100	
78-93-3	2-Butanone	2100	
156-59-2	cis-1,2-Dichloroethene	2200	
590-20-7	2,2-Dichloropropane	2300	
74-97-5	Bromochloromethane	2200	
67-66-3	Chloroform	2200	
109-99-9	Tetrahydrofuran	2200	
71-55-6	1,1,1-Trichloroethane	2300	
563-58-6	1,1-Dichloropropene	2300	
56-23-5	Carbon Tetrachloride	2300	
107-06-2	1,2-Dichloroethane	2300	
71-43-2	Benzene	2100	
79-01-6	Trichloroethene	2400	
78-87-5	1,2-Dichloropropane	2200	
74-95-3	Dibromomethane	2300	
75-27-4	Bromodichloromethane	2300	
10061-01-5	cis-1,3-Dichloropropene	2300	
108-10-1	4-Methyl-2-pentanone	2300	
108-88-3	Toluene	2200	
10061-02-6	trans-1,3-Dichloropropene	2300	
79-00-5	1,1,2-Trichloroethane	2300	
142-28-9	1,3-Dichloropropane	2200	

FORM I VOA OLM03.0

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\V1F1085.D
Report Date: 26-Nov-2002 14:19

Mitkem Corporation

Method 8260 Water and Medium Soil

```
Data file  : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\V1F1085.D
Lab Smp Id: V1L1118B                      Client Smp ID: V1OLCS
Inj Date   : 18-NOV-2002 13:21
Operator   : KEN                          Inst ID: v1.i
Smp Info   : 8260,V1L1118B,V1PLCS,V1B1118A
Misc Info  : ,3,,LCS
Comment    :
Method     : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\v18260.m
Meth Date  : 26-Nov-2002 12:19 mtl        Quant Type: ISTD
Cal Date   : 15-NOV-2002 14:27            Cal File: V1F1047.D
Als bottle: 5                             QC Sample: LCS ✓
Dil Factor: 1.00000
Integrator: HP RTE                        Compound Sublist: HRP.sub
Target Version:  4.03
Processing Host: TARGET6
```

Concentration Formula: Amt * DF * Uf*(Vt*5000)/(Va*Ws*((100-M)/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)
Vt	5.000	Methanol extract volume (mL)
Va	100.000	Aliquot of methanol (uL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	1.523	1.522	(0.251)	406075	47.9615	2400
2 Chloromethane	50	1.681	1.692	(0.277)	561726	46.1026	2300
3 Vinyl Chloride	62	1.809	1.808	(0.298)	447111	43.2271	2200
4 Bromomethane	94	2.118	2.116	(0.349)	42461	34.2536	1700
5 Chloroethane	64	2.344	2.343	(0.370)	796406	61.0494	3000
6 Trichlorofluoromethane	101	2.487	2.458	(0.410)	235263	51.6711	2600
8 1,1-Dichloroethene	96	3.028	3.028	(0.500)	374083	44.0194	2200
9 Acetone	43	3.050	3.049	(0.503)	76485	36.5076	1800
10 Iodomethane	142	3.158	3.157	(0.521)	387547	43.9093	2200
11 Carbon Disulfide	76	3.230	3.230	(0.533)	892916	40.3392	2000
14 Methylene Chloride	84	3.486	3.484	(0.575)	364016	41.4144	2100
15 Acrylonitrile	53	3.729	3.726	(0.615)	248074	194.142	9700
16 trans-1,2-Dichloroethene	96	3.771	3.771	(0.622)	402125	42.4710	2100

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\V1F1085.D
Report Date: 26-Nov-2002 14:19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
17 Methyl tert-butyl ether	73	3.782	3.781	(0.624)	598070	44.2893	2200
18 1,1-Dichloroethane	63	4.195	4.194	(0.692)	691438	47.9614	2100
19 Vinyl acetate	43	4.270	4.259	(0.704)	679977	43.8366	2200
22 2-Butanone	43	4.612	4.631	(0.797)	138592	43.9348	2100
29 Tetrahydrofuran	72	5.125	5.128	(0.846)	43876	43.1339	2200
23 cis-1,2-Dichloroethene	96	4.811	4.810	(0.794)	418734	44.2028	2200
24 2,2-Dichloropropane	77	4.800	4.800	(0.792)	305965	45.4284	2300
27 Bromochloromethane	128	5.055	5.054	(0.834)	200361	44.1907	2200
28 Chloroform	83	5.150	5.150	(0.850)	649057	44.2876	2200
$ 30 Dibromofluoromethane	113	5.320	5.319	(0.878)	373366	44.5042	2200
31 1,1,1-Trichloroethane	97	5.341	5.341	(0.881)	441440	46.7710	2300
32 1,1-Dichloropropene	110	5.533	5.532	(0.913)	196364	45.3615	2300
33 Carbon Tetrachloride	117	5.533	5.532	(0.913)	436324	46.6567	2300
$ 34 1,2-Dichloroethane-d4	102	5.600	5.600	(0.927)	83046	45.6449	2300
37 Benzene	78	5.744	5.744	(0.948)	1546803	43.7044	2100
38 1,2-Dichloroethane	62	5.765	5.765	(0.951)	454453	45.9544	2300
* 36 Fluorobenzene	96	6.062	6.062	(1.000)	1572711	50.0000	
39 Trichloroethene	130	6.476	6.476	(1.068)	379389	47.2544	2400
40 1,2-Dichloropropane	63	6.730	6.730	(1.100)	410271	43.9425	2200
42 Dibromomethane	93	6.858	6.857	(1.131)	344769	46.4062	2300
43 Bromodichloromethane	83	7.049	7.048	(1.163)	483743	46.4191	2300
45 cis-1,3-Dichloropropene	75	7.579	7.579	(1.250)	634657	45.6241	2300
46 4-Methyl-2-pentanone	43	7.770	7.770	(1.282)	365746	46.7479	2300
$ 47 Toluene-d8	98	7.900	7.902	(0.813)	1332697	44.0387	2200
48 Toluene	91	7.993	7.992	(1.318)	1677548	44.3914	2200
49 trans-1,3-Dichloropropene	75	8.269	8.266	(1.364)	637335	46.1049	2300
51 1,1,2-Trichloroethane	97	8.490	8.491	(1.401)	330072	45.2640	2300
52 1,3-Dichloropropane	76	8.704	8.703	(0.892)	660492	43.5052	2200
53 Tetrachloroethene	164	8.863	8.862	(0.890)	385833	46.7340	2300
54 2-Hexanone	43	8.831	8.830	(0.905)	599426	44.7381	2200
55 Dibromochloromethane	129	8.950	8.950	(0.928)	361674	45.8086	2300
56 1,2-Dibromoethane	107	9.128	9.127	(0.936)	356715	45.3655	2300
318 3-Chlorobenzene	91	9.786	9.776	(1.003)	616807	43.1849	2200
* 57 Chlorobenzene-d5	117	9.754	9.755	(1.000)	1041447	50.0000	
58 Chlorobenzene	112	9.786	9.785	(1.003)	3072589	47.7847	2400
59 1,1,1,2-Tetrachloroethane	131	9.903	9.901	(1.015)	345354	46.8510	2300
60 Ethylbenzene	106	9.946	9.944	(1.020)	570803	44.9835	2200
61 m,p-Xylene	106	10.104	10.103	(1.036)	1421051	66.0401	4400
63 o-Xylene	106	10.624	10.623	(1.089)	697992	46.0777	2300
64 Styrene	104	10.645	10.644	(1.091)	1094179	47.5420	2400
65 Bromoform	173	10.868	10.867	(1.114)	226327	46.7274	2400
66 Isopropylbenzene	105	11.151	11.151	(1.139)	1627699	49.7436	2500
$ 68 Bromofluorobenzene	95	11.292	11.291	(1.158)	517260	47.7727	2400
69 1,1,2,2-Tetrachloroethane	83	11.472	11.472	(0.906)	451483	41.7170	2100
70 Bromobenzene	156	11.442	11.441	(0.903)	418836	44.7993	2200
71 1,2,3-Trichloropropane	75	11.515	11.514	(0.909)	449871	44.7151	2200
72 n-Propylbenzene	120	11.421	11.420	(0.916)	438153	43.2151	2200

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021118.B\V1F1085.D
Report Date: 26-Nov-2002 14:19

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
73 2-Chlorotoluene	126	11.716	11.716	(0.923)	402696	43.1256	2200
74 1,3,5-Trimethylbenzene	105	11.843	11.843	(0.933)	1397362	43.2799	2200
75 4-Chlorotoluene	126	11.854	11.854	(0.934)	420032	43.6218	2200
76 tert-Butylbenzene	119	12.338	12.338	(0.964)	1319988	44.4186	2200
77 1,2,4-Trimethylbenzene	105	12.300	12.299	(0.969)	1440827	43.8718	2200
78 sec-Butylbenzene	105	12.501	12.501	(0.985)	1926054	43.0532	2200
80 1,3-Dichlorobenzene	146	12.618	12.617	(0.994)	761863	44.8678	2200
79 4-Isopropyltoluene	119	12.681	12.681	(0.998)	1329615	43.1806	2200
* 81 1,4-Dichlorobenzene-d4	152	12.692	12.692	(1.000)	564227	50.0000	
82 1,4-Dichlorobenzene	146	12.724	12.723	(1.002)	830156	43.7987	2200
83 n-Butylbenzene	91	13.159	13.148	(1.037)	1227092	43.2743	2200
84 1,2-Dichlorobenzene	146	13.148	13.148	(1.036)	749260	45.0179	2200
M 62 Xylene (Total)	106				2119044	136.867	6700
86 1,2-Dibromo-3-chloropropane	75	14.029	14.028	(1.106)	61940	43.8851	2200
87 1,2,4-Trichlorobenzene	180	14.952	14.951	(1.178)	482235	46.4361	2300
88 Hexachlorobutadiene	225	15.142	15.142	(1.193)	436417	44.7914	2200
89 Naphthalene	128	15.306	15.306	(1.206)	945075	44.0685	2200
90 1,2,3-Trichlorobenzene	180	15.491	15.491	(1.221)	354217	45.4748	2300

KD
11/26/02

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V5CLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: V5L1115B

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E1627

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/15/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	52	
74-87-3	Chloromethane	55	
75-01-4	Vinyl Chloride	54	
74-83-9	Bromomethane	56	
75-00-3	Chloroethane	57	
75-69-4	Trichlorofluoromethane	54	
75-35-4	1,1-Dichloroethene	52	
67-64-1	Acetone	48	
75-09-2	Methylene Chloride	52	
156-60-5	trans-1,2-Dichloroethene	51	
1634-04-4	Methyl tert-butyl ether	52	
75-34-3	1,1-Dichloroethane	51	
78-93-3	2-Butanone	52	
156-59-2	cis-1,2-Dichloroethene	50	
590-20-7	2,2-Dichloropropane	51	
74-97-5	Bromochloromethane	51	
67-66-3	Chloroform	50	
109-99-9	Tetrahydrofuran	54	
71-55-6	1,1,1-Trichloroethane	51	
563-58-6	1,1-Dichloropropene	50	
56-23-5	Carbon Tetrachloride	50	
107-06-2	1,2-Dichloroethane	51	
71-43-2	Benzene	50	
79-01-6	Trichloroethene	49	
78-87-5	1,2-Dichloropropane	50	
74-95-3	Dibromomethane	50	
75-27-4	Bromodichloromethane	50	
10061-01-5	cis-1,3-Dichloropropene	49	
108-10-1	4-Methyl-2-pentanone	51	
108-88-3	Toluene	49	
10061-02-6	trans-1,3-Dichloropropene	48	
79-00-5	1,1,2-Trichloroethane	48	
142-28-9	1,3-Dichloropropane	50	
127-18-4	Tetrachloroethene	50	

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V5CLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: V5L1115B

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E1627

Level: (low/med) LOW Date Received: _____

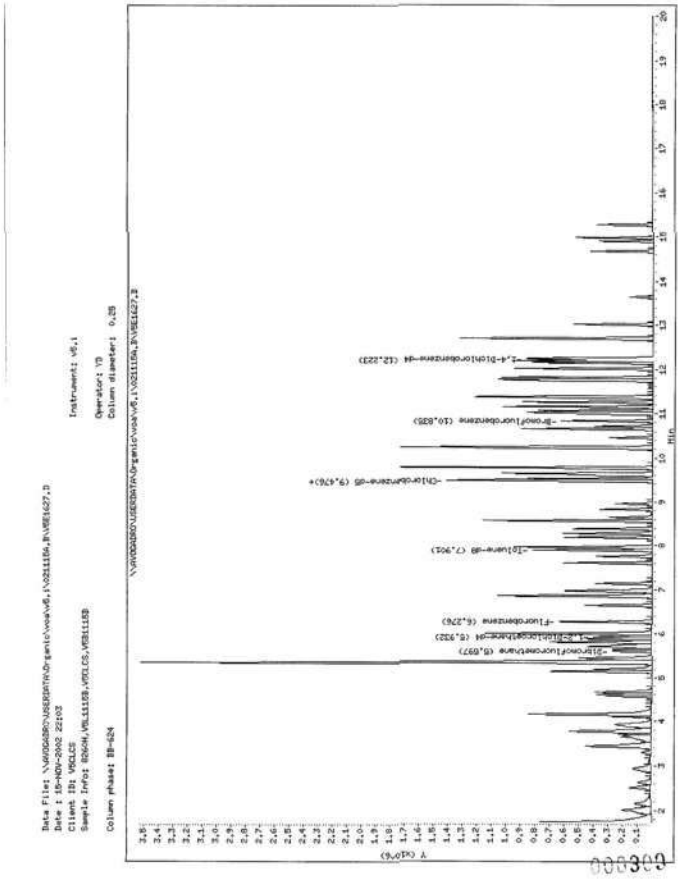
% Moisture: not dec. _____ Date Analyzed: 11/15/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	52	
124-48-1	Dibromochloromethane	49	
106-93-4	1,2-Dibromoethane	49	
108-90-7	Chlorobenzene	48	
630-20-6	1,1,1,2-Tetrachloroethane	48	
100-41-4	Ethylbenzene	48	
----------	m,p-Xylene	96	
95-47-6	o-Xylene	49	
1330-20-7	Xylene (Total)	140	
100-42-5	Styrene	48	
75-25-2	Bromoform	49	
98-82-8	Isopropylbenzene	48	
79-34-5	1,1,2,2-Tetrachloroethane	46	
108-86-1	Bromobenzene	46	
96-18-4	1,2,3-Trichloropropane	48	
103-65-1	n-Propylbenzene	46	
95-49-8	2-Chlorotoluene	46	
108-67-8	1,3,5-Trimethylbenzene	47	
106-43-4	4-Chlorotoluene	47	
98-06-6	tert-Butylbenzene	48	
95-63-6	1,2,4-Trimethylbenzene	48	
135-98-8	sec-Butylbenzene	48	
99-87-6	4-Isopropyltoluene	49	
541-73-1	1,3-Dichlorobenzene	47	
106-46-7	1,4-Dichlorobenzene	47	
104-51-8	n-Butylbenzene	49	
95-50-1	1,2-Dichlorobenzene	47	
96-12-8	1,2-Dibromo-3-chloropropane	45	
120-82-1	1,2,4-Trichlorobenzene	45	
87-68-3	Hexachlorobutadiene	47	
91-20-3	Naphthalene	43	
87-61-6	1,2,3-Trichlorobenzene	44	
544-10-5	1-Chlorohexane	49	
107-13-1	Acrylonitrile	270	

FORM I VOA OLM03.0



Data File: V5E1627.D
Report Date: 26-Nov-2002 12:09

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\V5E1627.D
Lab Smp Id: V5L1115B Client Smp ID: V5CLCS
Inj Date : 15-NOV-2002 22:03
Operator : YD Inst ID: v5.i
Smp Info : 8260H,V5L1115B,V5CLCS,V5B1115B
Misc Info : ,3,,LCS
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\v58260H.m
Meth Date : 26-Nov-2002 12:06 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 21:04 Cal File: V5E1625.D
Als bottle: 24 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	1.826	1.816	(0.291)	193812	51.6952	52
2 Chloromethane	50	2.013	2.003	(0.321)	394118	55.2314	55
3 Vinyl Chloride	62	2.151	2.151	(0.343)	286989	53.9876	54
4 Bromomethane	94	2.515	2.506	(0.401)	189932	55.8225	56
5 Chloroethane	64	2.643	2.634	(0.421)	162493	56.6049	57
6 Trichlorofluoromethane	101	2.909	2.899	(0.463)	194743	53.7166	54
8 1,1-Dichloroethene	96	3.441	3.431	(0.548)	181875	52.3430	52
9 Acetone	43	3.450	3.441	(0.550)	125737	48.4731	48
10 Iodoethane	142	3.608	3.589	(0.575)	247472	51.7921	52
11 Carbon Disulfide	76	3.657	3.658	(0.583)	551769	51.6164	52
14 Methylene Chloride	84	3.923	3.914	(0.625)	258511	51.6404	52
116 Acrylonitrile	53	4.110	4.110	(0.655)	310861	273.390	270
16 trans-1,2-Dichloroethene	96	4.169	4.160	(0.664)	185240	51.1836	51
17 Methyl tert-butyl ether	73	4.169	4.160	(0.664)	652483	52.5310	52
18 1,1-Dichloroethane	63	4.573	4.563	(0.729)	401953	51.2715	51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
	19 Vinyl acetate	43	4.612	4.613	(0.735)	691248	50.8478	51
	22 2-Butanone	43	5.134	5.134	(0.818)	195270	52.1949	52(Q)
	23 Tetrahydrofuran	72	5.420	5.134	(0.864)	41815	54.3235	54
	25 cis-1,2-Dichloroethene	96	5.134	5.134	(0.818)	204799	49.7413	50
	26 2,2-Dichloropropane	77	5.144	5.134	(0.820)	150648	50.9929	51
	27 Bromochloromethane	128	5.370	5.371	(0.856)	113479	51.2425	51
	28 Chloroform	83	5.449	5.440	(0.868)	362528	50.3555	50
$	30 Dibromofluoromethane	113	5.597	5.597	(0.892)	191549	53.5686	54
	31 1,1,1-Trichloroethane	97	5.636	5.636	(0.898)	218595	50.6536	51
	32 1,1-Dichloropropene	110	5.804	5.794	(0.925)	77946	50.4721	50
	33 Carbon Tetrachloride	117	5.814	5.804	(0.926)	185632	50.0302	50
$	35 1,2-Dichloroethane-d4	102	5.932	5.932	(0.945)	47365	54.5845	54
	37 Benzene	78	6.001	6.001	(0.956)	826905	50.1569	50
	36 1,2-Dichloroethane	62	6.010	6.001	(0.958)	319491	51.4798	51
*	38 Fluorobenzene	96	6.276	6.267	(1.000)	644706	50.0000	
	39 Trichloroethene	130	6.641	6.641	(1.058)	173152	49.2734	49
	40 1,2-Dichloropropane	63	6.867	6.867	(1.094)	249634	50.3898	50
	42 Dibromomethane	93	6.985	6.986	(1.113)	156816	49.8321	50
	43 Bromodichloromethane	83	7.143	7.143	(1.138)	292692	49.6363	50
	45 cis-1,3-Dichloropropene	75	7.606	7.606	(1.212)	381929	48.8256	49
	46 4-Methyl-2-pentanone	43	7.753	7.753	(1.235)	381918	51.1300	51
$	47 Toluene-d8	98	7.901	7.901	(0.833)	617044	52.0775	52
	48 Toluene	91	7.970	7.970	(1.270)	752139	49.1137	49
	49 trans-1,3-Dichloropropene	75	8.186	8.187	(1.304)	354311	48.4681	48
	51 1,1,2-Trichloroethane	97	8.383	8.394	(1.336)	188645	47.6251	48
	52 1,3-Dichloropropane	76	8.570	8.571	(0.903)	379062	50.2401	50
	53 Tetrachloroethene	164	8.570	8.571	(0.903)	134269	49.9108	50
	54 2-Hexanone	43	8.649	8.649	(0.912)	282155	51.8940	52
	55 Dibromochloromethane	129	8.826	8.827	(0.930)	215822	48.9650	49
	56 1,2-Dibromoethane	107	8.964	8.964	(0.945)	207560	49.0212	49
	115 1-Chlorohexane	91	9.476	9.476	(0.999)	336586	49.0966	49(Q)
*	57 Chlorobenzene-d5	117	9.486	9.476	(1.000)	458026	50.0000	
	58 Chlorobenzene	112	9.516	9.516	(1.003)	457049	48.1086	48
	59 1,1,1,2-Tetrachloroethane	131	9.604	9.604	(1.012)	175353	48.3678	48
	60 Ethylbenzene	106	9.634	9.634	(1.016)	230651	48.5194	48
	61 m,p-Xylene	106	9.772	9.772	(1.030)	573069	96.3466	96
	62 o-Xylene	106	10.225	10.225	(1.078)	294197	48.6110	49
	64 Styrene	104	10.234	10.235	(1.079)	523365	48.3092	48
	65 Bromoform	173	10.451	10.451	(1.102)	153635	48.8303	49
	66 Isopropylbenzene	105	10.658	10.658	(1.123)	477314	47.6020	48
$	68 Bromofluorobenzene	95	10.835	10.835	(1.142)	259731	51.1344	51
	69 1,1,2,2-Tetrachloroethane	83	10.993	10.993	(0.899)	347071	45.6159	46
	70 Bromobenzene	156	11.022	11.022	(0.902)	216490	46.3462	46
	71 1,2,3-Trichloropropane	75	11.052	11.052	(0.904)	418360	47.6672	48
	72 n-Propylbenzene	120	11.140	11.140	(0.911)	187973	46.5853	46
	73 2-Chlorotoluene	126	11.248	11.249	(0.920)	181833	45.8893	46
	74 1,3,5-Trimethylbenzene	105	11.357	11.347	(0.929)	601828	47.0700	47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
	75 4-Chlorotoluene	126	11.376	11.377	(0.931)	187778	47.0071	47
	76 tert-Butylbenzene	119	11.741	11.751	(0.961)	658070	47.6040	48
	77 1,2,4-Trimethylbenzene	105	11.800	11.800	(0.965)	626108	47.6112	48
	78 sec-Butylbenzene	105	12.007	12.007	(0.982)	792328	47.9619	48
	80 1,3-Dichlorobenzene	146	12.144	12.145	(0.994)	376569	47.3553	47
	79 4-Isopropyltoluene	119	12.184	12.184	(0.997)	596957	48.6758	49
*	81 1,4-Dichlorobenzene-d4	152	12.223	12.224	(1.000)	231767	50.0000	
	82 1,4-Dichlorobenzene	146	12.253	12.253	(1.002)	382596	46.9720	47
	83 n-Butylbenzene	91	12.486	12.486	(1.038)	657222	49.3238	49
	84 1,2-Dichlorobenzene	146	12.706	12.706	(1.039)	364883	47.3697	47
M	63 Xylene (Total)	106				867267	144.958	140
	86 1,2-Dibromo-3-chloropropane	75	13.651	13.651	(1.117)	51117	45.3459	45
	87 1,2,4-Trichlorobenzene	180	14.685	14.685	(1.201)	154685	45.2559	45
	88 Hexachlorobutadiene	225	14.901	14.902	(1.219)	86085	47.3224	47
	89 Naphthalene	128	14.980	14.980	(1.226)	476520	43.2744	43
	90 1,2,3-Trichlorobenzene	180	15.285	15.286	(1.251)	135700	44.0537	44

QC Flag Legend

Q - Qualifier signal failed the ratio test.

YD
11/26/02

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V5CLCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: V5L1115C

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E1628

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/15/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	51	
74-87-3	Chloromethane	55	
75-01-4	Vinyl Chloride	54	
74-83-9	Bromomethane	56	
75-00-3	Chloroethane	56	
75-69-4	Trichlorofluoromethane	54	
75-35-4	1,1-Dichloroethene	52	
67-64-1	Acetone	49	
75-09-2	Methylene Chloride	53	
156-60-5	trans-1,2-Dichloroethene	51	
1634-04-4	Methyl tert-butyl ether	52	
75-34-3	1,1-Dichloroethane	53	
78-93-3	2-Butanone	52	
156-59-2	cis-1,2-Dichloroethene	51	
590-20-7	2,2-Dichloropropane	51	
74-97-5	Bromochloromethane	51	
67-66-3	Chloroform	52	
109-99-9	Tetrahydrofuran	48	
71-55-6	1,1,1-Trichloroethane	51	
563-58-6	1,1-Dichloropropene	50	
56-23-5	Carbon Tetrachloride	50	
107-06-2	1,2-Dichloroethane	52	
71-43-2	Benzene	50	
79-01-6	Trichloroethene	50	
78-87-5	1,2-Dichloropropane	52	
74-95-3	Dibromomethane	51	
75-27-4	Bromodichloromethane	51	
10061-01-5	cis-1,3-Dichloropropene	49	
108-10-1	4-Methyl-2-pentanone	51	
108-88-3	Toluene	50	
10061-02-6	trans-1,3-Dichloropropene	50	
79-00-5	1,1,2-Trichloroethane	49	
142-28-9	1,3-Dichloropropane	50	
127-18-4	Tetrachloroethene	50	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V5CLCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: V5L1115C

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V5E1628

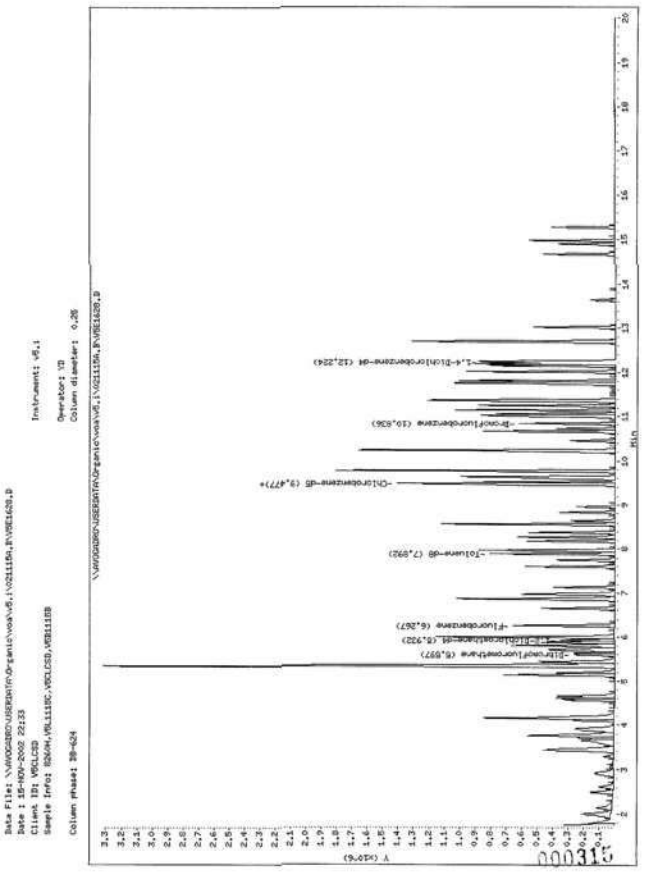
Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/15/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	51	
124-48-1	Dibromochloromethane	49	
106-93-4	1,2-Dibromoethane	49	
108-90-7	Chlorobenzene	49	
630-20-6	1,1,1,2-Tetrachloroethane	48	
100-41-4	Ethylbenzene	48	
	m,p-Xylene	96	
95-47-6	o-Xylene	49	
1330-20-7	Xylene (Total)	140	
100-42-5	Styrene	49	
75-25-2	Bromoform	48	
98-82-8	Isopropylbenzene	47	
79-34-5	1,1,2,2-Tetrachloroethane	46	
108-86-1	Bromobenzene	47	
96-18-4	1,2,3-Trichloropropane	47	
103-65-1	n-Propylbenzene	46	
95-49-8	2-Chlorotoluene	46	
108-67-8	1,3,5-Trimethylbenzene	48	
106-43-4	4-Chlorotoluene	47	
98-06-6	tert-Butylbenzene	48	
95-63-6	1,2,4-Trimethylbenzene	48	
135-98-8	sec-Butylbenzene	47	
99-87-6	4-Isopropyltoluene	48	
541-73-1	1,3-Dichlorobenzene	48	
106-46-7	1,4-Dichlorobenzene	48	
104-51-8	n-Butylbenzene	49	
95-50-1	1,2-Dichlorobenzene	48	
96-12-8	1,2-Dibromo-3-chloropropane	48	
120-82-1	1,2,4-Trichlorobenzene	48	
87-68-3	Hexachlorobutadiene	48	
91-20-3	Naphthalene	46	
87-61-6	1,2,3-Trichlorobenzene	48	
544-10-5	1-Chlorohexane	48	
107-13-1	Acrylonitrile	260	



Data File: V5E1628.D
Report Date: 26-Nov-2002 12:09

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\V5E1628.D
Lab Smp Id: V5L1115C Client Smp ID: V5CLCSD
Inj Date : 15-NOV-2002 22:33
Operator : YD Inst ID: v5.i
Smp Info : 8260H,V5L1115C,V5CLCSD,V5B1115B
Misc Info : ,3,,LCSD
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v5.i\021115A.B\v58260H.m
Meth Date : 26-Nov-2002 12:06 mtl Quant Type: ISTD
Cal Date : 15-NOV-2002 21:04 Cal File: V5E1625.D
Als bottle: 25 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	1.807	1.816	(0.288)	184586	51.2776	51
2 Chloromethane	50	2.004	2.003	(0.320)	375589	54.8191	55
3 Vinyl Chloride	62	2.142	2.151	(0.342)	277006	54.1717	54
4 Bromomethane	94	2.506	2.506	(0.400)	182981	56.0115	56
5 Chloroethane	64	2.624	2.634	(0.419)	154582	56.0861	56
6 Trichlorofluoromethane	101	2.895	2.899	(0.461)	186896	53.6918	54
8 1,1-Dichloroethene	96	3.422	3.431	(0.546)	173951	52.1402	52
9 Acetone	43	3.441	3.441	(0.549)	122332	49.1178	49
10 Iodomethane	142	3.589	3.589	(0.573)	244080	53.2022	53
11 Carbon Disulfide	76	3.648	3.658	(0.582)	554761	54.0502	54
14 Methylene Chloride	84	3.914	3.914	(0.625)	255349	53.1257	53
116 Acrylonitrile	53	4.111	4.110	(0.656)	267075	263.203	260
16 trans-1,2-Dichloroethene	96	4.160	4.160	(0.664)	176784	50.8745	51
17 Methyl tert-butyl ether	73	4.160	4.160	(0.664)	623797	52.3058	52
18 1,1-Dichloroethane	63	4.564	4.563	(0.728)	339502	53.0738	53

Data File: V5E1628.D
Report Date: 26-Nov-2002 12:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
19 Vinyl acetate	43	4.603	4.613	(0.734)	668678	51.2289	51
22 2-Butanone	43	5.135	5.134	(0.819)	187066	52.0830	52(Q)
29 Tetrahydrofuran	72	5.135	5.134	(0.819)	35243	47.6855	48(Q)
23 cis-1,2-Dichloroethene	96	5.135	5.134	(0.819)	200776	50.7881	51
24 2,2-Dichloropropane	77	5.135	5.134	(0.819)	145281	51.2172	51
27 Bromochloromethane	128	5.361	5.371	(0.855)	108417	50.9886	51
28 Chloroform	83	5.440	5.440	(0.868)	356898	51.6309	52
S 30 Dibromofluoromethane	113	5.598	5.597	(0.893)	180608	52.6050	53
31 1,1,1-Trichloroethane	97	5.637	5.636	(0.899)	310540	50.8118	51
32 1,1-Dichloropropene	110	5.794	5.794	(0.925)	73308	49.5029	50
33 Carbon Tetrachloride	117	5.804	5.804	(0.926)	177625	49.8592	50
S 35 1,2-Dichloroethane-d4	102	5.932	5.932	(0.947)	42812	51.3850	51
37 Benzene	78	6.001	6.001	(0.958)	797272	50.3666	50
36 1,2-Dichloroethane	62	6.001	6.001	(0.958)	309831	51.9936	52
* 38 Fluorobenzene	96	6.267	6.267	(1.000)	619016	50.0000	
39 Trichloroethene	130	6.641	6.641	(1.060)	168218	49.8562	50
40 1,2-Dichloropropane	63	6.858	6.847	(1.094)	243444	51.5807	52
42 Dibromomethane	93	6.986	6.986	(1.115)	153860	50.9220	51
43 Bromodichloromethane	83	7.133	7.143	(1.138)	290500	51.3091	51
45 cis-1,3-Dichloropropene	75	7.596	7.604	(1.212)	371497	49.4630	49
46 4-Methyl-2-pentanone	43	7.754	7.753	(1.237)	368945	51.4432	51
S 47 Toluene-d8	98	7.892	7.901	(0.833)	591382	50.5634	50
48 Toluene	91	7.970	7.970	(1.272)	736348	50.0781	50
49 trans-1,3-Dichloropropene	75	8.187	8.187	(1.306)	351017	50.0102	50
51 1,1,2-Trichloroethane	97	8.384	8.384	(1.338)	186648	49.0768	49
52 1,3-Dichloropropane	76	8.571	8.571	(0.904)	372042	49.9536	50
53 Tetrachloroethene	164	8.571	8.571	(0.904)	134264	50.5607	50
54 2-Hexanone	43	8.650	8.649	(0.913)	272325	50.7401	51
55 Dibromochloromethane	129	8.827	8.827	(0.931)	212233	48.7791	49
56 1,2-Dibromoethane	107	8.955	8.964	(0.945)	205157	49.0863	49
115 1-Chlorohexane	91	9.477	9.476	(1.000)	228271	47.9795	48(Q)
* 57 Chlorobenzene-d5	117	9.477	9.476	(1.000)	482123	50.0000	
58 Chlorobenzene	112	9.516	9.516	(1.004)	456378	48.6652	49
59 1,1,1,2-Tetrachloroethane	131	9.595	9.604	(1.012)	172523	48.2079	48
60 Ethylbenzene	106	9.634	9.634	(1.017)	227970	48.5815	48
61 m,p-Xylene	106	9.762	9.772	(1.030)	561414	95.6196	96
62 o-Xylene	106	10.225	10.225	(1.079)	291468	48.7888	49
64 Styrene	104	10.235	10.235	(1.080)	521845	48.7978	49
65 Bromoform	173	10.452	10.451	(1.103)	150110	48.3330	48
66 Isopropylbenzene	105	10.658	10.658	(1.125)	661233	47.0786	47
S 68 Bromofluorobenzene	95	10.836	10.835	(1.143)	254377	50.7342	51
69 1,1,2,2-Tetrachloroethane	83	10.993	10.993	(0.899)	344266	45.6719	46
70 Bromobenzene	156	11.023	11.022	(0.902)	216124	46.7020	47
71 1,2,3-Trichloropropane	75	11.052	11.052	(0.904)	411255	47.2975	47
72 n-Propylbenzene	120	11.141	11.140	(0.911)	182832	45.7366	46
73 2-Chlorotoluene	126	11.249	11.249	(0.920)	181116	46.1373	46
74 1,3,5-Trimethylbenzene	105	11.348	11.347	(0.928)	602456	47.5614	48

Data File: V5E1628.D
Report Date: 26-Nov-2002 12:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
75 4-Chlorotoluene	126	11.377	11.377	(0.931)	186259	47.0644	47
76 tert-Butylbenzene	119	11.741	11.751	(0.961)	652036	47.6102	48
77 1,2,4-Trimethylbenzene	105	11.800	11.800	(0.965)	627434	48.1599	48
78 sec-Butylbenzene	105	12.007	12.007	(0.982)	774589	47.3282	47
80 1,3-Dichlorobenzene	146	12.145	12.145	(0.994)	378721	48.0728	48
79 4-Isopropyltoluene	119	12.184	12.184	(0.997)	584573	48.1135	48
* 81 1,4-Dichlorobenzene-d4	152	12.224	12.224	(1.000)	329612	50.0000	
82 1,4-Dichlorobenzene	146	12.253	12.253	(1.002)	384108	47.6002	48
83 n-Butylbenzene	91	12.687	12.686	(1.038)	645225	48.8780	49
84 1,2-Dichlorobenzene	146	12.706	12.706	(1.039)	365518	47.8975	48
M 63 Xylene (Total)	106				852883	144.408	140
86 1,2-Dibromo-3-chloropropane	75	13.642	13.651	(1.116)	53428	47.8404	48
87 1,2,4-Trichlorobenzene	180	14.685	14.685	(1.201)	161615	47.7273	48
88 Hexachlorobutadiene	225	14.902	14.902	(1.219)	86579	48.0408	48
89 Naphthalene	128	14.981	14.980	(1.226)	503996	46.1992	46
90 1,2,3-Trichlorobenzene	180	15.286	15.286	(1.251)	146218	47.9140	48

QC Flag Legend

Q - Qualifier signal failed the ratio test.

1/0
11/26/02

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V6ULCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: V6L1114A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3695

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/14/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	58	
74-87-3	Chloromethane	54	
75-01-4	Vinyl Chloride	52	
74-83-9	Bromomethane	43	
75-00-3	Chloroethane	43	
75-69-4	Trichlorofluoromethane	52	
75-35-4	1,1-Dichloroethene	44	
67-64-1	Acetone	38	
75-09-2	Methylene Chloride	44	
107-13-1	Acrylonitrile	220	
156-60-5	trans-1,2-Dichloroethene	46	
1634-04-4	Methyl tert-butyl ether	43	
75-34-3	1,1-Dichloroethane	47	
78-93-3	2-Butanone	40	
156-59-2	cis-1,2-Dichloroethene	47	
590-20-7	2,2-Dichloropropane	44	
74-97-5	Bromochloromethane	45	
67-66-3	Chloroform	47	
109-99-9	Tetrahydrofuran	56	
71-55-6	1,1,1-Trichloroethane	46	
563-58-6	1,1-Dichloropropene	47	
56-23-5	Carbon Tetrachloride	48	
107-06-2	1,2-Dichloroethane	47	
71-43-2	Benzene	49	
79-01-6	Trichloroethene	46	
78-87-5	1,2-Dichloropropane	48	
74-95-3	Dibromomethane	46	
75-27-4	Bromodichloromethane	47	
10061-01-5	cis-1,3-Dichloropropene	46	
108-10-1	4-Methyl-2-pentanone	40	
108-88-3	Toluene	50	
10061-02-6	trans-1,3-Dichloropropene	45	
79-00-5	1,1,2-Trichloroethane	47	
142-28-9	1,3-Dichloropropane	49	

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V6ULCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: V6L1114A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3695

Level: (low/med) LOW Date Received: _____

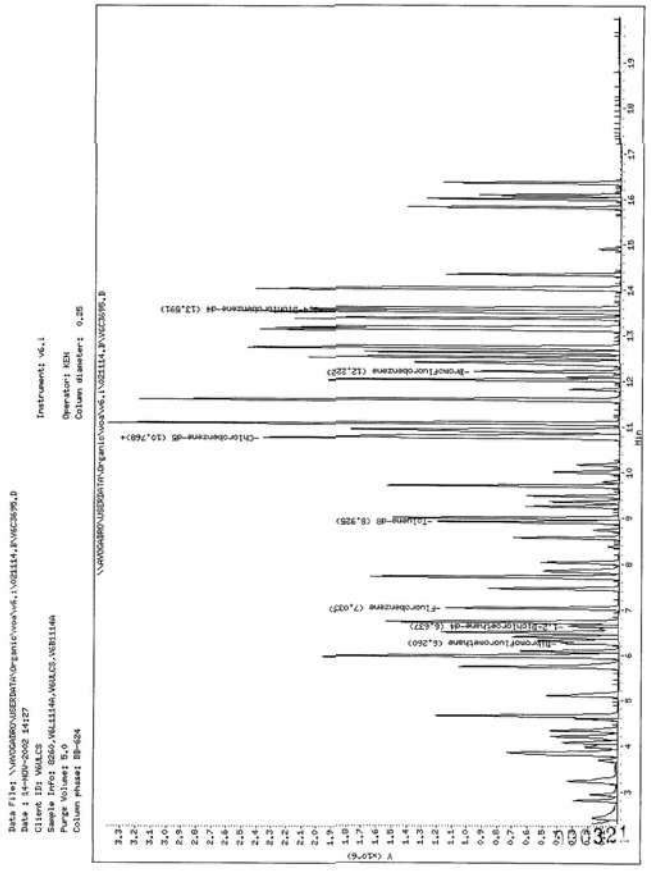
% Moisture: not dec. _____ Date Analyzed: 11/14/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	46	
591-78-6	2-Hexanone	43	
124-48-1	Dibromochloromethane	48	
106-93-4	1,2-Dibromoethane	47	
108-90-7	Chlorobenzene	50	
630-20-6	1,1,1,2-Tetrachloroethane	49	
100-41-4	Ethylbenzene	49	
	m,p-Xylene	100	
95-47-6	o-Xylene	48	
1330-20-7	Xylene (Total)	150	
100-42-5	Styrene	51	
75-25-2	Bromoform	48	
98-82-8	Isopropylbenzene	53	
79-34-5	1,1,2,2-Tetrachloroethane	51	
108-86-1	Bromobenzene	48	
96-18-4	1,2,3-Trichloropropane	50	
103-65-1	n-Propylbenzene	50	
95-49-8	2-Chlorotoluene	50	
108-67-8	1,3,5-Trimethylbenzene	53	
106-43-4	4-Chlorotoluene	50	
98-06-6	tert-Butylbenzene	53	
95-63-6	1,2,4-Trimethylbenzene	53	
135-98-8	sec-Butylbenzene	56	
99-87-6	4-Isopropyltoluene	54	
541-73-1	1,3-Dichlorobenzene	50	
106-46-7	1,4-Dichlorobenzene	50	
104-51-8	n-Butylbenzene	56	
95-50-1	1,2-Dichlorobenzene	50	
96-12-8	1,2-Dibromo-3-chloropropane	46	
120-82-1	1,2,4-Trichlorobenzene	47	
87-68-3	Hexachlorobutadiene	46	
91-20-3	Naphthalene	45	
87-61-6	1,2,3-Trichlorobenzene	47	
544-10-5	1-Chlorohexane	47	

FORM I VOA OLM03.0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3695.D
Report Date: 26-Nov-2002 12:27

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3695.D
Lab Smp Id: V6L1114A Client Smp ID: V6ULCS
Inj Date : 14-NOV-2002 14:27
Operator : KEN Inst ID: v6.i
Smp Info : 8260,V6L1114A,V6ULCS,V6B1114A
Misc Info : ,3,,LCSD
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\v68260.m
Meth Date : 26-Nov-2002 12:24 mtl Quant Type: ISTD
Cal Date : 17-OCT-2002 18:24 Cal File: V6C3426.D
Als bottle: 5 QC Sample: LCS ✓
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	2.044	2.036	(0.291)	319742	58.0656	58
2 Chloromethane	50	2.263	2.273	(0.322)	478949	54.5900	54
3 Vinyl Chloride	62	2.421	2.419	(0.344)	455079	52.4181	52
4 Bromomethane	94	2.811	2.809	(0.400)	268813	42.6399	43
5 Chloroethane	64	2.945	2.942	(0.419)	245052	43.4713	43
6 Trichlorofluoromethane	101	3.243	3.235	(0.461)	538230	51.7804	52
8 1,1-Dichloroethene	96	3.814	3.813	(0.542)	399778	44.2163	44
9 Acetone	43	3.857	3.849	(0.548)	55124	37.8111	38
10 Iodomethane	142	3.973	3.977	(0.565)	536412	41.7631	42
11 Carbon Disulfide	76	4.070	4.074	(0.579)	911899	44.8883	45
14 Methylene Chloride	84	4.332	4.336	(0.616)	370256	44.5385	44
15 Acrylonitrile	53	4.593	4.591	(0.653)	348769	215.547	220
16 trans-1,3-Dichloroethene	96	4.648	4.646	(0.661)	393628	46.2342	46
17 Methyl tert-butyl ether	73	4.648	4.646	(0.661)	783668	42.8485	43
18 1,1-Dichloroethane	63	5.098	5.096	(0.725)	621923	47.1221	47
19 Vinyl acetate	43	5.141	5.145	(0.731)	417348	46.4519	46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATION ON-COLUMN (ug/L)	FINAL (ug/L)
	22 2-Butanone	43	5.737	5.735	(0.816)	72199	40.3948	40
	29 Tetrahydrofuran	72	6.065	6.069	(0.862)	28099	56.5404	56
	23 cis-1,2-Dichloroethene	96	5.737	5.735	(0.816)	426833	47.0011	47
	24 2,2-Dichloropropane	77	5.743	5.741	(0.817)	354972	43.9317	44
	27 Bromochloromethane	128	5.998	5.996	(0.853)	208687	45.0751	45
	28 Chloroform	83	6.083	6.082	(0.865)	647763	47.4568	47
$	30 Dibromofluoromethane	113	6.260	6.258	(0.890)	310059	43.9014	44
	31 1,1,1-Trichloroethane	97	6.309	6.313	(0.897)	502736	45.8496	46
	32 1,1-Dichloropropene	110	6.497	6.495	(0.924)	195021	46.8746	47
	33 Carbon Tetrachloride	117	6.503	6.507	(0.925)	492003	47.7985	48
$	35 1,2-Dichloroethane-d4	102	6.637	6.641	(0.944)	74361	43.3619	43
	37 Benzene	78	6.728	6.726	(0.957)	1544006	49.0290	49
	36 1,2-Dichloroethane	62	6.722	6.726	(0.956)	436354	46.6140	47
*	38 Fluorobenzene	96	7.033	7.037	(1.000)	1551390	50.0000	
	39 Trichloroethene	130	7.465	7.463	(1.061)	450178	46.0436	46
	40 1,2-Dichloropropane	63	7.714	7.718	(1.097)	376701	46.2628	46
	42 Dibromomethane	93	7.864	7.858	(1.117)	205084	46.2854	46
	43 Bromodichloromethane	83	8.030	8.034	(1.142)	488058	46.8987	47
	45 cis-1,3-Dichloropropene	75	8.572	8.576	(1.218)	605140	45.9815	46
	46 4-Methyl-2-pentanone	43	8.748	8.748	(1.244)	152374	40.3302	40
$	47 Toluene-d8	98	8.926	8.923	(0.828)	1276472	48.6172	49
	48 Toluene	91	9.010	9.008	(1.281)	1717069	50.3110	50
	49 trans-1,3-Dichloropropene	75	9.259	9.257	(1.317)	505693	45.4868	45
	51 1,1,2-Trichloroethane	97	9.496	9.494	(1.350)	305072	46.9997	47
	52 1,3-Dichloropropane	76	9.715	9.713	(0.902)	518981	48.6327	49
	53 Tetrachloroethene	164	9.715	9.720	(0.902)	375693	45.9175	46
	54 2-Hexanone	43	9.807	9.805	(0.910)	100470	42.6581	43
	55 Dibromochloromethane	129	10.013	10.018	(0.929)	382650	47.9627	48
	56 1,2-Dibromoethane	107	10.172	10.176	(0.944)	303604	47.3748	47
	115 1-Chlorohexane	91	10.762	10.766	(0.999)	540106	47.3960	47
*	57 Chlorobenzene-d5	117	10.774	10.772	(1.000)	1246707	50.0000	
	58 Chlorobenzene	112	10.810	10.808	(1.003)	1213315	49.7048	50
	59 1,1,1,2-Tetrachloroethane	131	10.902	10.908	(1.012)	432335	48.7944	49
	60 Ethylbenzene	106	10.944	10.942	(1.016)	647355	48.6123	49
	61 m,p-Xylene	106	11.095	11.088	(1.029)	1408819	100.764	100
	62 o-Xylene	106	11.583	11.587	(1.075)	800669	48.5162	48
	64 Styrene	104	11.595	11.599	(1.076)	1302343	50.6996	51
	65 Bromoform	173	11.826	11.824	(1.098)	236130	47.7725	48
	66 Isopropylbenzene	105	12.039	12.037	(1.117)	1898030	53.0428	53
$	68 Bromofluorobenzene	95	12.222	12.226	(1.134)	651893	45.5548	46
	69 1,1,2,2-Tetrachloroethane	83	12.374	12.378	(0.910)	345722	51.4131	51
	70 Bromobenzene	156	12.410	12.414	(0.913)	824519	48.0809	48
	71 1,2,3-Trichloropropane	75	12.435	12.439	(0.915)	424820	49.9604	50
	72 n-Propylbenzene	120	12.532	12.536	(0.922)	594206	50.2605	50
	73 2-Chlorotoluene	126	12.642	12.646	(0.930)	518557	49.5240	50
	74 1,3,5-Trimethylbenzene	105	12.738	12.743	(0.937)	1611235	52.8702	53
	75 4-Chlorotoluene	126	12.769	12.767	(0.940)	536937	49.6587	50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	76 tert-Butylbenzene	119	13.128	13.132	(0.966)	1893769	52.7675	53
	77 1,2,4-Trimethylbenzene	105	13.183	13.187	(0.970)	1657072	53.1208	53
	78 sec-Butylbenzene	105	13.384	13.388	(0.985)	2117559	55.6328	56
	80 1,3-Dichlorobenzene	146	13.518	13.522	(0.995)	1025302	50.4255	50
	79 4-Isopropyltoluene	119	13.548	13.552	(0.997)	1799938	54.1542	54
*	81 1,4-Dichlorobenzene-d4	152	13.591	13.589	(1.000)	680931	50.0000	
	82 1,4-Dichlorobenzene	146	13.621	13.619	(1.002)	1013172	49.5569	50
	83 n-Butylbenzene	91	14.016	14.021	(1.031)	1589814	55.6581	56
	84 1,3-Dichlorobenzene	146	14.047	14.051	(1.034)	934165	49.7249	50
M	63 Xylene (Total)	106				2409488	149.280	150
	86 1,2-Dibromo-3-chloropropane	75	14.911	14.909	(1.097)	49022	46.0890	46
	87 1,2,4-Trichlorobenzene	180	15.829	15.827	(1.165)	648381	47.2207	47
	88 Hexachlorobutadiene	225	16.012	16.016	(1.178)	329782	45.8447	46
	89 Naphthalene	128	16.097	16.095	(1.184)	1076597	45.2128	45
	90 1,2,3-Trichlorobenzene	180	16.359	16.363	(1.204)	551534	47.1884	47

YD 11/26/02

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V6ULCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: V6L1114B

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3696

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/14/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	57	
74-87-3	Chloromethane	57	
75-01-4	Vinyl Chloride	55	
74-83-9	Bromomethane	49	
75-00-3	Chloroethane	42	
75-69-4	Trichlorofluoromethane	55	
75-35-4	1,1-Dichloroethene	46	
67-64-1	Acetone	36	
75-09-2	Methylene Chloride	46	
107-13-1	Acrylonitrile	240	
156-60-5	trans-1,2-Dichloroethene	48	
1634-04-4	Methyl tert-butyl ether	45	
75-34-3	1,1-Dichloroethane	48	
78-93-3	2-Butanone	43	
156-59-2	cis-1,2-Dichloroethene	48	
590-20-7	2,2-Dichloropropane	48	
74-97-5	Bromochloromethane	47	
67-66-3	Chloroform	49	
109-99-9	Tetrahydrofuran	57	
71-55-6	1,1,1-Trichloroethane	48	
563-58-6	1,1-Dichloropropene	48	
56-23-5	Carbon Tetrachloride	49	
107-06-2	1,2-Dichloroethane	48	
71-43-2	Benzene	51	
79-01-6	Trichloroethene	47	
78-87-5	1,2-Dichloropropane	49	
74-95-3	Dibromomethane	48	
75-27-4	Bromodichloromethane	48	
10061-01-5	cis-1,3-Dichloropropene	47	
108-10-1	4-Methyl-2-pentanone	43	
108-88-3	Toluene	52	
10061-02-6	trans-1,3-Dichloropropene	48	
79-00-5	1,1,2-Trichloroethane	48	
142-28-9	1,3-Dichloropropane	51	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V6ULCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: V6L1114B

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C3696

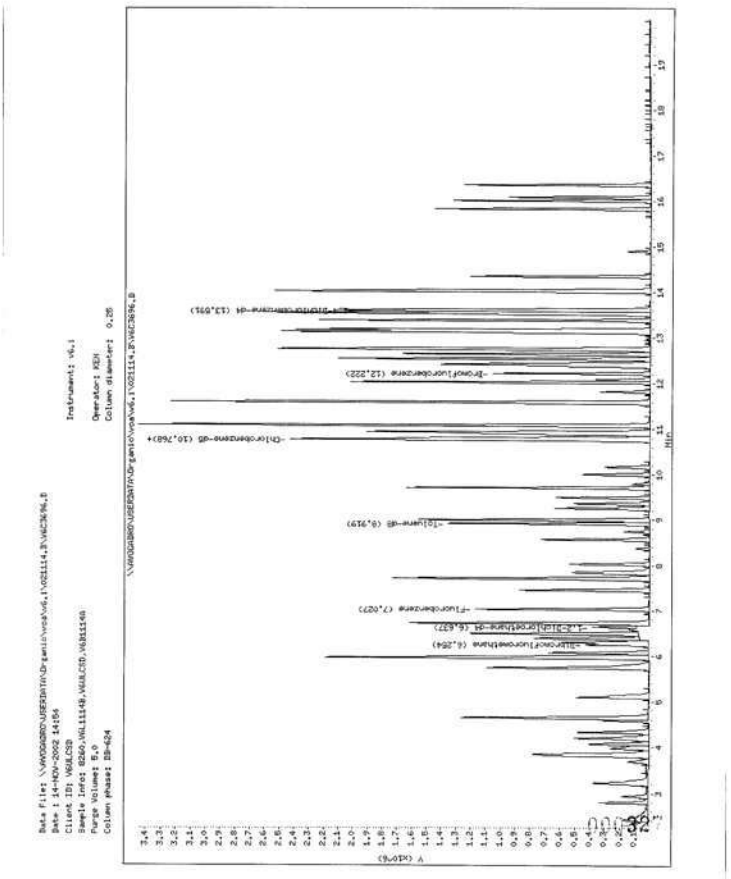
Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/14/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	48	
591-78-6	2-Hexanone	46	
124-48-1	Dibromochloromethane	50	
106-93-4	1,2-Dibromoethane	50	
108-90-7	Chlorobenzene	51	
630-20-6	1,1,1,2-Tetrachloroethane	50	
100-41-4	Ethylbenzene	50	
----------	m,p-Xylene	100	
95-47-6	o-Xylene	50	
1330-20-7	Xylene (Total)	150	
100-42-5	Styrene	52	
75-25-2	Bromoform	49	
98-82-8	Isopropylbenzene	54	
79-34-5	1,1,2,2-Tetrachloroethane	53	
108-86-1	Bromobenzene	50	
96-18-4	1,2,3-Trichloropropane	52	
103-65-1	n-Propylbenzene	52	
95-49-8	2-Chlorotoluene	51	
108-67-8	1,3,5-Trimethylbenzene	54	
106-43-4	4-Chlorotoluene	51	
98-06-6	tert-Butylbenzene	55	
95-63-6	1,2,4-Trimethylbenzene	55	
135-98-8	sec-Butylbenzene	58	
99-87-6	4-Isopropyltoluene	56	
541-73-1	1,3-Dichlorobenzene	51	
106-46-7	1,4-Dichlorobenzene	52	
104-51-8	n-Butylbenzene	58	
95-50-1	1,2-Dichlorobenzene	51	
96-12-8	1,2-Dibromo-3-chloropropane	48	
120-82-1	1,2,4-Trichlorobenzene	49	
87-68-3	Hexachlorobutadiene	47	
91-20-3	Naphthalene	47	
87-61-6	1,2,3-Trichlorobenzene	48	
544-10-5	1-Chlorohexane	49	



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3696.D
Report Date: 26-Nov-2002 12:27

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3696.D
Lab Smp Id: V6L1114B Client Smp ID: V6ULCSD
Inj Date : 14-NOV-2002 14:54
Operator : KEN Inst ID: v6.i
Smp Info : 8260,V6L1114B,V6ULCSD,V6B1114A
Misc Info : ,3,,LCSD
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\v68260.m
Meth Date : 26-Nov-2002 12:24 mtl Quant Type: ISTD
Cal Date : 17-OCT-2002 18:24 Cal File: V6C3426.D
Als bottle: 6 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1	Dichlorodifluoromethane	85	2.038	2.036	(0.290)	318387	57.4406	57
2	Chloromethane	50	2.264	2.273	(0.322)	500043	56.6209	57
3	Vinyl Chloride	62	2.416	2.419	(0.344)	477988	54.6962	55
4	Bromomethane	94	2.811	2.809	(0.400)	311794	49.1316	49
5	Chloroethane	64	2.939	2.942	(0.418)	235936	41.5797	42
6	Trichlorofluoromethane	101	3.237	3.235	(0.461)	572742	54.7396	55
8	1,1-Dichloroethene	96	3.803	3.813	(0.542)	413151	45.6156	46
9	Acetone	43	3.851	3.849	(0.548)	52318	35.6524	36
10	Iodomethane	142	3.967	3.977	(0.565)	576322	44.5763	44
11	Carbon Disulfide	76	4.064	4.074	(0.578)	569130	47.3929	47
14	Methylene Chloride	84	4.332	4.336	(0.616)	382062	45.6579	46
15	Acrylonitrile	53	4.593	4.591	(0.654)	389303	239.021	240
16	trans-1,2-Dichloroethene	96	4.642	4.646	(0.661)	414575	48.3755	48
17	Methyl tert-butyl ether	73	4.648	4.646	(0.661)	823473	44.7298	45
18	1,1-Dichloroethane	63	5.096	5.096	(0.726)	643556	48.4416	48
19	Vinyl acetate	43	5.141	5.145	(0.732)	435940	48.1923	48

000328

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3696.D
Report Date: 26-Nov-2002 12:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
22	2-Butanone	43	5.737	5.735	(0.816)	77359	42.9382	43
29	Tetrahydrofuran	72	6.059	6.069	(0.862)	28557	57.0858	57
23	cis-1,2-Dichloroethene	96	5.731	5.735	(0.816)	442738	48.4330	48
24	2,2-Dichloropropane	77	5.743	5.741	(0.817)	390106	47.9635	48
27	Bromochloromethane	128	5.999	5.996	(0.854)	218000	46.7781	47
28	Chloroform	83	6.078	6.082	(0.865)	675950	49.1971	49
$ 30	Dibromofluoromethane	113	6.254	6.258	(0.890)	350717	49.3359	49
31	1,1,1-Trichloroethane	97	6.309	6.313	(0.898)	528893	47.9000	48
32	1,1-Dichloropropene	110	6.492	6.495	(0.924)	201720	48.1672	48
33	Carbon Tetrachloride	117	6.498	6.507	(0.925)	511193	49.3374	49
$ 35	1,2-Dichloroethane-d4	102	6.644	6.641	(0.945)	84635	49.0298	49
37	Benzene	78	6.723	6.726	(0.957)	1613354	50.8954	51
36	1,2-Dichloroethane	62	6.723	6.726	(0.957)	452170	47.9870	48
* 38	Fluorobenzene	96	7.027	7.037	(1.000)	1561623	50.0000	
39	Trichloroethene	130	7.459	7.463	(1.061)	486776	47.4074	47
40	1,2-Dichloropropane	63	7.708	7.718	(1.097)	388226	49.4134	49
42	Dibromomethane	93	7.854	7.858	(1.118)	213101	47.7798	48
43	Bromodichloromethane	83	8.031	8.034	(1.143)	506465	48.3487	48
45	cis-1,3-Dichloropropene	75	8.532	8.536	(1.220)	628624	47.4529	47
46	4-Methyl-2-pentanone	43	8.742	8.746	(1.244)	163822	43.0762	43
$ 47	Toluene-d8	98	8.919	8.923	(0.828)	1440800	54.5843	54
48	Toluene	91	9.004	9.008	(1.281)	1800088	52.3979	52
49	trans-1,3-Dichloropropene	75	9.253	9.257	(1.317)	534063	47.7240	48
51	1,1,2-Trichloroethane	97	9.491	9.494	(1.351)	317189	48.4430	48
52	1,3-Dichloropropane	76	9.710	9.713	(0.902)	543365	50.6471	51
53	Tetrachloroethene	164	9.716	9.720	(0.902)	392490	47.7155	48
54	2-Hexanone	43	9.801	9.805	(0.910)	108573	45.8537	46
55	Dibromochloromethane	129	10.014	10.018	(0.930)	403843	50.3501	50
56	1,2-Dibromoethane	107	10.172	10.176	(0.945)	319480	49.5872	50
115	1-Chlorohexane	91	10.762	10.766	(0.999)	565068	49.3230	49
* 57	Chlorobenzene-d5	117	10.768	10.772	(1.000)	1253368	50.0000	
58	Chlorobenzene	112	10.805	10.808	(1.003)	1261018	51.3845	51
59	1,1,1,2-Tetrachloroethane	131	10.902	10.906	(1.012)	442077	49.6288	50
60	Ethylbenzene	106	10.938	10.942	(1.016)	675443	50.4520	50
61	m,p-Xylene	106	11.091	11.088	(1.030)	1675230	104.346	100
62	o-Xylene	106	11.583	11.587	(1.076)	826523	49.8187	50
64	Styrene	104	11.595	11.599	(1.077)	1356661	52.5402	52
65	Bromoform	173	11.821	11.824	(1.098)	241708	48.6411	49
66	Isopropylbenzene	105	12.034	12.037	(1.118)	1946195	54.0997	54
$ 68	Bromofluorobenzene	95	12.222	12.226	(1.135)	502697	50.4069	50
69	1,1,2,2-Tetrachloroethane	83	12.368	12.378	(0.910)	358559	52.9345	53
70	Bromobenzene	156	12.411	12.414	(0.913)	547777	49.8488	50
71	1,2,3-Trichloropropane	75	12.435	12.438	(0.915)	462537	51.6666	52
72	n-Propylbenzene	120	12.532	12.536	(0.922)	636447	51.7635	52
73	2-Chlorotoluene	126	12.642	12.646	(0.930)	540029	51.2007	51
74	1,3,5-Trimethylbenzene	105	12.739	12.743	(0.937)	1669559	54.3867	54
75	4-Chlorotoluene	126	12.770	12.767	(0.940)	555954	51.0446	51

000329

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021114.B\V6C3696.D
Report Date: 26-Nov-2002 12:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
76	tert-Butylbenzene	119	13.129	13.132	(0.966)	1980324	54.7960	55
77	1,2,4-Trimethylbenzene	105	13.183	13.187	(0.970)	1724903	54.8948	55
78	sec-Butylbenzene	105	13.384	13.388	(0.985)	2304980	57.5094	58
80	1,3-Dichlorobenzene	146	13.518	13.522	(0.995)	1052369	51.3813	51
79	4-Isopropyltoluene	119	13.548	13.552	(0.997)	1885113	56.3054	56
* 81	1,4-Dichlorobenzene-d4	152	13.591	13.589	(1.000)	695905	50.0000	
82	1,4-Dichlorobenzene	146	13.615	13.619	(1.002)	1071383	52.0241	52
83	n-Butylbenzene	91	14.017	14.021	(1.031)	1658205	57.6387	58
84	1,2-Dichlorobenzene	146	14.047	14.051	(1.034)	964224	50.9526	51
M 63	Xylene (Total)	106				2501754	154.182	150
86	1,2-Dibromo-3-chloropropane	75	14.805	14.809	(1.089)	51925	48.4651	48
87	1,2,4-Trichlorobenzene	180	15.830	15.837	(1.165)	683095	49.3881	49
88	Hexachlorobutadiene	225	16.012	16.016	(1.178)	342340	47.2453	47
89	Naphthalene	128	16.091	16.095	(1.184)	1121418	46.7362	47
90	1,2,3-Trichlorobenzene	180	16.353	16.363	(1.203)	568542	48.2908	48

YD 11/26/02

000330

Percent Moisture and Percent Solids Report

Mitkem Sample ID	Client Sample ID	Analyzed	Percent Moisture	Percent Solids	Validated
A1627-01A	04 NOV 02 AOC1+12-T	11/14/2002	19	81	Yes
A1627-02C	04 NOV 02 AOC1+12-T	11/14/2002	13	87	Yes
A1627-03C	04 NOV 02 AOC1+12T	11/14/2002	9	91	Yes
A1627-04A	04 NOV 02 AOC1+12-S	11/14/2002	20	80	Yes
A1627-05A	04 NOV 02 AOC1+12-S	11/14/2002	17	83	Yes
A1627-08A	04 NOV 02 AOC1+12-S	11/14/2002	39	61	Yes
A1627-09A	04 NOV 02 AOC1+12-S	11/14/2002	11	89	Yes
A1627-10A	04 NOV 02 AOC1+12-S	11/14/2002	23	77	Yes
A1627-11A	04 NOV 02 AOC1+12-S	11/14/2002	19	81	Yes
A1627-12A	04 NOV 02 AOC1+12-S	11/14/2002	12	88	Yes
A1627-14A	05 NOV 02-AOC13-SS-	11/14/2002	11	89	Yes
A1627-15A	05 NOV 02-AOC13-SS-	11/14/2002	20	80	Yes
A1627-16A	05 NOV 02-AOC13-SS-	11/14/2002	11	89	Yes
A1627-17A	05 NOV 02-AOC13-SS-	11/14/2002	9	91	Yes
A1627-18A	05 NOV 02-AOC13-SS-	11/14/2002	16	84	Yes
A1627-19A	05 NOV 02-AOC13-SS-	11/14/2002	13	87	Yes
A1627-20A	05 NOV 02-AOC13-SS-	11/14/2002	16	84	Yes
A1627-21A	05 NOV 02-AOC13-SS-	11/14/2002	7	93	Yes
A1627-22A	05 NOV 02-AOC13-SS-	11/14/2002	20	80	Yes
A1627-23A	05 NOV 02-AOC13-SS-	11/14/2002	6	94	Yes
A1627-24A	05 NOV 02-AOC13-SS-	11/14/2002	12	88	Yes
A1627-26A	05 NOV 02AOC13-SS-D	11/14/2002	16	84	Yes
A1627-27A	05 NOV 02 AOC13-SS-	11/14/2002	16	84	Yes
A1627-28A	05 NOV 02 AOC13-SS-T	11/14/2002	14	86	Yes
A1627-29C	05 NOV 02 AOC13-SS-T	11/14/2002	16	84	Yes
A1627-30C	05 NOV 02 AOC13-SS-T	11/14/2002	15	85	Yes
A1627-31C	05 NOV 02 AOC13-SS-T	11/14/2002	6	94	Yes
A1627-32A	04 NOV 02 AOC13-SS-T	11/14/2002	2	98	Yes
A1627-33A	04 NOV 02 AOC13-SS-T	11/14/2002	10	90	Yes
A1627-34A	04 NOV 02 AOC13-SS-T	11/14/2002	10	90	Yes
A1627-35A	05 NOV 02 AOC13-SS-T	11/14/2002	16	84	Yes
A1627-38A	06 NOV02-AOC2-SS-TB	11/14/2002	11	89	Yes
A1627-39A	06 NOV02-AOC2-SS-TB	11/14/2002	15	85	Yes
A1627-40A	06 NOV02-AOC2-SS-TB	11/14/2002	7	93	Yes
A1627-41A	06 NOV02-AOC2-SS-TB	11/14/2002	17	83	Yes
A1627-42A	07 NOV02-AOC2-SS-TB	11/14/2002	7	93	Yes
A1627-43A	07 NOV02-AOC2-SS-TB	11/14/2002	10	90	Yes
A1627-44A	04 NOV02-AOC1+12-S	11/14/2002	2	98	Yes
A1627-45A	04 NOV02-AOC1+12-S	11/14/2002	11	89	Yes
A1627-46A	04 NOV02-AOC1+12-S	11/14/2002	4	96	Yes

000083

Tuesday, November 26, 2002 *Page 1 of 2*

MITKEM CORPORATION: Volatile Organics Low/Medium Level Soil Extraction Log

Date	Lab ID	Analysis	Wt. Soil Extracted (g)	Extraction Volume (mL)	Extraction Solution Methanol/NaHSO4	Methanol Lot. #/ NaHSO4 ID	Comments	Analyst
11/14/02	A1609-01	OLM	63	10 mL	Methanol	Pre-Prepared	41.25-34.98	TP
	-10		55				40.51-35.04	
	-11		3.6				38.43-34.88	
11/15/02	A1627-02B	8260	8.5	5mL	NaHSO4	Pre-Prepared	40.69-32.207	YD
	03B		21.6				53.70-32.116	
	29B		8.2				39.41-31.152	
	30B		6.8				38.05-31.277	
11/16/02	A1637-31B	8260	16.3	5mL	NaHSO4		47.50-31.235	
	-41B		14.8				46.90-32.082	
	-31B		13.2				44.41-31.165	
11/14/02	A1627-27A		10.57	5mL	MeOH		41.48-31.124	
11/18/02	A1627-32A		10.42	5mL	MeOH	pre-prepared	41.12-30.884	
11/19/02	A1669-02B	OLM	—	5mL	NaHSO4		35.80-32.58	
	-03B		5.9				41.27-32.39	
	-04B		6.3				41.90-32.58	
	-05B		8.4				42.01-32.76	
	-05MS		9.6				42.11-32.52	
	-05MSD		8.4				43.91-32.52	
A1668-01B			6.0				41.63-32.58	
	-02B		5.7				41.34-32.64	
	-03B		5.7	5 mL			40.86-32.16	
11/19/02	A1668-04B	OLM	5.3	5 mL	NaHSO4	pre-preserved	40.63-32.36	YD

Logbook ID: 90.0189-1/02 Reviewed By: YD 11/26/02 Logbook page: 000014

000333

Date: 11/15/02 Instrument V1 Injection Log Mitkem Corporation Volatiles Laboratory

METHOD: V1 8260 CAL ID: ~~SW~~ VW021115B-STD ANALYST: YD
INITIAL CAL: 11/15/02 IS/SS ID: D-GAS C-AP93 E-ZS VW021115F-SS ARCHIVE:
COMMENTS:

AS #	FILE		MITKEM ID		CLIENT ID	SAMPLE SIZE	DIL	COMMENTS	IS	SS	pH
DT	V1F10	40	V1T1115	A	BFB1M	2ml		DIC (10:58)			
1		41	V1S1115	A	VSTD0501M	5ml		Not use			
2		42		B	VSTD0401M						
3		43		C	VSTD0201M			← for 6 Level, Ical			
4		44		D	VSTD0221M			Ical for 8260 Aq.			
5		45		E	VSTD0101M			and M.L 8011			
6		46		A	VSTD0501M						
7	V1F10	47		F	VSTD0201M						
8	V1F10	48	V1S1115	F	VSTD0201M	5ml	T	Not use 13:11			

YD
A 11/15/02
N

Logbook ID 90.0204-1/02 Reviewed By: YD 11/16/02 Logbook page: 000082

000334

Date: 11/18/02 Instrument V1 Injection Log 4412 Mitkem Corporation Volatiles Laboratory

METHOD: V1 8260 CAL ID: VW021115B-STD ANALYST: YD
INITIAL CAL: 11/15/02 IS/SS ID: C-AP93 D-GAS VW021115G-3355 ARCHIVE:
COMMENTS:

AS #	FILE		MITKEM ID		CLIENT ID	SAMPLE SIZE	DIL	COMMENTS	IS	SS	pH
DT	V1F10	80	V1T1118	A	BFB1D	2ml	—	DIC 10:41			
1		81	V1S1118	A	VSTD0501D	5ml		DIC			
2		82	V1B1118	A	VBLK1D	10ml/5ml		DIC			
3		83	V1B1118	B	VBLK1P	5ml		DIC	✓	✓	
4		84	V1L1118	A	V1PLCS	5ml		DIC 1 out	✓	✓	
5		85	V1L1118	B	V1OLCS	10ml/5ml		DIC	✓	✓	
6		86	A1639-01A		TRIP BLANK	5ml		DIC	✓	✓	
7		87	A1663-01A		D05882			PCE 442 RR#	✓	✓	
8		88	A1663-02A		D05883			RR1X	✓	✓	
9		89	A1636-01A		A1SP1			DIC	✓	✓	
10		90	A1636-02A		A1SP2			DIC	✓	✓	
11		91	A1636-04A		A1SP4			DIC	✓	✓	
12		92	A1663-03A		D05884			DIC	✓	✓	
13		93	A1663-04A		D05885		↓	DIC	✓	✓	
14		94	VT1113-B1		VBLK1Q		—	DIC	✓	✓	
15		95	A1663-01A		D05882		3	DIC PCE-152	✓	✓	
16		96	A1663-02A		D05883			DIC	✓	✓	
17		97	A1636-03A		A1SP3			DIC	✓	✓	
18		98	A1636-03AMS		A1SP3MS			DIC	✓	✓	
19	V1F10	99	A1636-03AMSD		A1SP3MSD	5ml		DIC	✓	✓	
20	V1F11	00	A1627-29DL		1355TB345DL	10ml/5ml		DIC Toluene 46	✓	✓	
21		01	A1627-30DL		1355TB2413DL	10ml/5ml	✓	DIC	✓	✓	
22		02	A1639-12A		SMW	5ml	20	DIC TCE 112	✓	✓	
23		03	↓		B3		10	DIC TCE 137 (22.305)	✓	✓	
24		04			MW 118		100		✓	✓	
25	✓	05	A1639-18A		MW 118 DL		200	TCE 57 RR 1	✓		
26	V1F11	06	V1S1118	B	VSTD0201P	5ml	—	RR 2 OTT	✓		

YD
A 11/19/02
N

Logbook ID 90.0204-1/02 Reviewed By: YD 11/19/02 Logbook page: 000084

DATE: 11/15/02 (2nd Batch) | INSTRUMENT V5 INJECTION LOG 4388 | MITKEM CORPORATION VOLATILES LABORATORY

METHOD: V5 8260H | CAL ID: VW021115D-GAS | ANALYST: YD
INITIAL CAL: 11/15/02 | IS/SS ID: VW021115E-STD, VW021115C-APPLX, VW021115E-IS, VW021115F-SS | ARCHIVE:
COMMENTS:

AS #	FILE		MITKEM ID		CLIENT ID	SAMPLE SIZE	DIL	COMMENTS	IS	SS	pH
17	V5E 16	20	V5T1115	B	BFB5C	5mL	-	OK			
18		21	V5S1115	C	V5STD200SC		-	ICal 8260 5mL			
19		22		C	V5STD100SC		-				
20		23		D	V5STD050SC		-				
21		24		E	V5STD020SC		-				
22		25	V5S1115	F	V5STD005SC		-				
23		26	V5B1115	B	VBLK5C		-	OK	✓	✓	
24		27	V5L1115	B	V5CCS	↓	-	OK	✓	✓	
25		28	V5T1115	C	V5CCSD	5mL	-	OK	✓	✓	
26		29	A1627-	02B	12TB1329	8.5	-	OK	✓	✓	
27		30		03B	12TB1068	216	-	Bead Purge	N/A	N/A	
28		31		29B	13SSTB3435	8.2	-	Toluene 1330, RR Meas	✓	✓	
29		32		30B	13SSTB3413	6.8	-	Acetone 343, RR Meas	316	✓	
30		33		31B	13SSTB3124	16.3	-	Not Use	✓	✓	
31	↓	34	↓	31B	13SSTB3124	1480	-	OK	✓	✓	
32	V5E 16	35	A1627-	03B	12TB1063	148 73.6	✓	OK 02:21	316	✓	

YD 11/18/02

Logbook ID 90.0199-1/02 | Reviewed By: YD 11/18/02 | Logbook page: 000031 000335

Date: ~~11/18/02~~ 10/17/02 (10/21/02) | Instrument V 6 Injection Log 3921 | Mitkem Corporation Volatiles Laboratory

METHOD: V6 8260 | CAL ID: VW021010A-SS | ANALYST: YD
INITIAL CAL: ~~11/18/02~~ | IS/SS ID: VW021010B-IS, VW021014A-Gas, VW021017B-STD, VW021017C-APPLX, VW021017G-ICV | ARCHIVE:
COMMENTS: 10/17/02 (11/18/02)

AS #	FILE		MITKEM ID		CLIENT ID	SAMPLE SIZE	DIL	COMMENTS	IS	SS	pH
DT	V6C34	20	V6T1018	7A	BFB6I	2mL	-	DIC (15:33)			
1		21	V6S1018	7A	V5STD005-06I	5mL	-				
2		22		B	V5STD020SI		-				
3		23		C	V5STD0016I		-	Not Use ICal for 8260 Aqueous and Mtl Soil			
4		24		D	V5STD2006I		-				
5		25		E	V5STD1006I		-				
6		26	↓	F	V5STD0206I		-				
7		27	V6S1018	7C	V5STD0016I		-	← for 6 Levels ICal.			
8		28	V6B1018	7A	VBLK1I		-	DIC	✓	✓	
9		29	ICV		ICV		-	DIC	✓	✓	
10		30	V6L1018	7A	V1LCS		-	DIC	✓	✓	
11		31	V6L1018	7A	V1LCSD		-	DIC	✓	✓	
12		32	A1502-	02A	D06017		40	RR 1x	✓	✓	
13		33		03A	D06018			RR1x	✓	✓	
14		34		04A	D06019			RR1X	✓	✓	
15		35		05A	D06020			RR1X	✓	✓	
16		36		06A	D06021			RR20X	✓	✓	
17		37	↓	07A	D06022		↓	RR1X	✓	✓	
18		38	A1502-	08A	D06023		40	RR1X	✓	✓	
19		39	~~A1468-~~	02A	3rd TB		-	RR 1X	✓	✓	
20		40	A1468-	05A	EF1008G		1000	RR 1X	✓	✓	
21		41	A1468-	04A	IN1008G	↓	1000	Methods OK	✓	✓	
22		42	A1468-	07A	SLTB	5mL	-	OK 01:50	✓	✓	
23		43									
24	↓	44									
25	V6C34	45									

Logbook ID 90.0200-1/02 | Reviewed By: | Logbook page: 000330

Date: 11/14/02 | Instrument V 6 Injection Log 4378 | Mitkem Corporation Volatiles Laboratory

METHOD: V6 8260 | CAL ID: VW021014A-Gas | ANALYST: YD
INITIAL CAL: 10/17/02 | IS/SS ID: VW021017B-STD, VW021017C-APPLX, VW021017A-ISSS | ARCHIVE:
COMMENTS:

AS #	FILE		MITKEM ID		CLIENT ID	SAMPLE SIZE	DIL	COMMENTS	IS	SS	pH
D2	V6C36	90	V6T1114	A	BFB6U	2mL	T	OK (10:05)			
1		91	V6S1114	A	V5STD-05-06U	5mL		DIC			
2		92	V6B1114	A	VBLK6U			DIC	✓		
3		93	V6L1114	A	V6ULCS			Not use	✓		
4		94	V6L1114	B	V6ULCS0			↓	✓		
5		95	V6L1114	A	V6ULCS			DIC	✓		
6		96	V6L1114	B	V6ULCS0			DIC	✓		
7		97	A1627-~~00A~~		ADC112T1			DIC	✓	✓	
8	↓	98	A1627-	07A	ADC112E1			DIC	✓	✓	
9	V6C36	99	A1627-	13A	ADC2E3			DIC	✓	✓	
10	V6C37	00	A1627-	25A	ADC13E3			DIC	✓	✓	
11		01	A1647-	01A	NE PIT			DK	✓	✓	
12		02	A1647-	02A	SW PIT		↓	PCE 2.4, RR2.4	✓	1.4	
13	↓	03	A1627-	31A	ADC7E4	↓	-	OK No carryover	✓	✓	
14	V6C37	04	A1647-	02A	SW PIT	5mL	2.5	(19:32)	✓	3.1	

Logbook ID 90.0200-1/02 | Reviewed By: YD 11/18/02 | Logbook page: 000084 000337

MITKEM CORPORATION: VOLATILE ORGANICS TRACKING LOGBOOK

Project	Client	#'s / Analyst/ Date In	Comments	#'s / Analyst/ Date out
A1616	Watermark	01-24	RY (SB) 11/7/02	
A1617	Watermark	01	RY (SB) 11/7/02	
A1618	Shaw	01-02	RY (SB) 11/7/02	
A1611	GZA	04-09	RY AN 11/8/02	
A1619	BERGER	01-07		
A1620	GEI	01-02		
A1622	LMS	01-06		
A1624	VHS	01		
A1625	MANTUAT	01-03	RY AN 11/8/02	11/11/02 14:40
A1623	EGAINV	01-06	R13 AN 11/8/02	11/12/02 14:30 YD
A1611	GZA	10-15	RY AN 11/14/02	11/18/02 12:45 YD
A1619	BERGER	9,11,13,15	RY	
A1627	HRP	23,5,6,7,13,25 29,30,31,32	R10	
A1628	SILRESIN	01-02	RH	
A1629	FETRA EPA	01-03	R13	
A1630	FETRA MWR	01-05	R10	
A1631	MANTUAT	01-08	RH R9	
A1634	SILRESIN	02-14		
A1636	MALCOLM	01-04		
A1637	EARTH	01-04		
A1611	GZA	16-18	RY AN 11/11/02	

Logbook Page: 000089 | Reviewed By: YD 11/18/02

Logbook ID 90.0190-1/02 000338

MITKEM CORPORATION

* Semivolatile Organics *

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

	EPA SAMPLE No.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLK3X	80	82	79	25	38	78	68	77	0
02	S3XLCS	82	82	82	22	35	82	67	74	0
03	S3XLCSD	85	88	87	24	39	87	71	78	0
04	AOC112E1	80	82	60	19	29	80	60	76	0
05	AOC2E3	79	81	78	23	36	79	68	73	0
06	AOC13E2	82	84	68	18	29	80	63	77	0
07	AOC2E4	77	78	59	22	35	73	65	72	0
08	AOC2BB1	70	76	87	37	50	76	69	70	0
09	AOC2BB2	72	76	87	35	49	75	70	71	0
10	SBLK3Z	77	82	90	25	37	90	74	81	0
11	S3ZLCS	82	86	91	26	40	103	76	81	0
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(48-106)	
S2 (FBP)	= 2-Fluorobiphenyl	(38-120)	
S3 (TPH)	= Terphenyl-d14	(0-147)	
S4 (PHL)	= Phenol-d5	(0-120)	
S5 (2FP)	= 2-Fluorophenol	(1-103)	
S6 (TBP)	= 2,4,6-Tribromophenol	(37-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(28-107)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(37-106)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	12TB1524	67	72	80	66	67	68	69	70	0
02	12TB1068	75	80	89	73	74	76	77	78	0
03	13SSTB3435	73	80	91	73	74	85	77	77	0
04	13SSTB2413	74	82	95	72	73	77	75	77	0
05	13SSTB3124	78	84	95	76	76	82	79	81	0
06	SBLK3P	78	86	101	78	80	98	85	86	0
07	S3PLCS	78	89	94	78	80	104	87	89	0
08	S3PLCSD	70	82	91	72	74	97	80	80	0
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(46-102)	
S2 (FBP)	= 2-Fluorobiphenyl	(52-107)	
S3 (TPH)	= Terphenyl-d14	(61-113)	
S4 (PHL)	= Phenol-d5	(45- 99)	
S5 (2FP)	= 2-Fluorophenol	(44- 95)	
S6 (TBP)	= 2,4,6-Tribromophenol	(50-111)	
S7 (2CP)	= 2-Chlorophenol-d4	(45- 97)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(44-100)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3XLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Phenol	50		12	24	0-127
bis(2-Chloroethyl)Ether	50		39	78	46-109
2-Chlorophenol	50		36	72	22-117
1,3-Dichlorobenzene	50		38	76	28-103
1,4-Dichlorobenzene	50		38	76	28-104
1,2-Dichlorobenzene	50		39	78	29-107
2-Methylphenol	50		32	64	40-104
2,2'-oxybis(1-Chloropro	50		42	84	10-134
4-Methylphenol	50		28	56	35-106
N-Nitroso-di-n-prop.(1)	50		44	88	44-122
Hexachloroethane	50		39	78	24-104
Nitrobenzene	50		42	84	47-112
Isophorone	50		43	86	48-118
2-Nitrophenol	50		42	84	29-122
2,4-Dimethylphenol	50		38	76	14-109
2,4-Dichlorophenol	50		41	82	31-122
1,2,4-Trichlorobenzene	50		39	78	33-108
Naphthalene	50		43	86	38-117
4-Chloroaniline	50		14	28	0-152
bis(2-Chloroethoxy)meth	50		43	86	49-112
Hexachlorobutadiene	50		38	76	28-109
4-Chloro-3-Methylphenol	50		41	82	48-117
2-Methylnaphthalene	50		42	84	43-113
Hexachlorocyclopentadie	50		39	78	34-103
2,4,6-Trichlorophenol	50		42	84	34-127
2,4,5-Trichlorophenol	50		42	84	32-131
2-Chloronaphthalene	50		38	76	47-116
2-Nitroaniline	50		44	88	51-120

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3XLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dimethylphthalate	50		45	90	53-124
Acenaphthylene	50		43	86	50-119
2,6-Dinitrotoluene	50		43	86	52-122
3-Nitroaniline	50		37	74	47-115
Acenaphthene	50		44	88	50-121
2,4-Dinitrophenol	50		30	60	0-144
4-Nitrophenol	50		12	24	0-160
Dibenzofuran	50		43	86	51-122
2,4-Dinitrotoluene	50		44	88	52-126
Diethylphthalate	50		44	88	53-126
4-Chlorophenyl-phenylet	50		42	84	50-124
Fluorene	50		44	88	52-125
4-Nitroaniline	50		38	76	47-117
4,6-Dinitro-2-methylphe	50		39	78	3-151
N-Nitrosodiphenylamine	50		44	88	50-150
4-Bromophenyl-phenyleth	50		41	82	51-124
Hexachlorobenzene	50		43	86	52-124
Pentachlorophenol	50		39	78	5-125
Phenanthrene	50		45	90	52-128
Anthracene	50		46	92	52-127
Carbazole	50		48	96	54-126
Di-n-butylphthalate	50		46	92	56-132
Fluoranthene	50		46	92	53-130
Pyrene	50		45	90	53-131
Butylbenzylphthalate	50		48	96	54-128
3,3'-Dichlorobenzidine	50		42	84	41-117
Benzo(a)anthracene	50		46	92	56-124
Chrysene	50		45	90	53-123

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3XLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
bis(2-Ethylhexyl)phthal	50		44	88	56-127
Di-n-octylphthalate	50		47	94	59-138
Benzo(b)fluoranthene	50		43	86	58-126
Benzo(k)fluoranthene	50		50	100	60-124
Benzo(a)pyrene	50		45	90	61-121
Indeno(1,2,3-cd)pyrene	50		44	88	23-152
Dibenzo(a,h)anthracene	50		44	88	60-122
Benzo(g,h,i)perylene	50		43	86	57-124

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3XLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	50	13	26	8	40	0-127
bis(2-Chloroethyl)Ether	50	38	76	2	40	46-109
2-Chlorophenol	50	36	72	0	40	22-117
1,3-Dichlorobenzene	50	37	74	3	40	28-103
1,4-Dichlorobenzene	50	37	74	3	40	28-104
1,2-Dichlorobenzene	50	37	74	5	40	29-107
2-Methylphenol	50	32	64	0	40	40-104
2,2'-oxybis(1-Chloropro	50	41	82	2	40	10-134
4-Methylphenol	50	28	56	0	40	35-106
N-Nitroso-di-n-prop.(1)	50	44	88	0	40	44-122
Hexachloroethane	50	38	76	2	40	24-104
Nitrobenzene	50	40	80	5	40	47-112
Isophorone	50	41	82	5	40	48-118
2-Nitrophenol	50	40	80	5	40	29-122
2,4-Dimethylphenol	50	37	74	3	40	14-109
2,4-Dichlorophenol	50	40	80	2	40	31-122
1,2,4-Trichlorobenzene	50	38	76	2	40	33-108
Naphthalene	50	41	82	5	40	38-117
4-Chloroaniline	50	14	28	0	40	0-152
bis(2-Chloroethoxy)meth	50	42	84	2	40	49-112
Hexachlorobutadiene	50	36	72	5	40	28-109
4-Chloro-3-Methylphenol	50	40	80	2	40	48-117
2-Methylnaphthalene	50	40	80	5	40	43-113
Hexachlorocyclopentadie	50	37	74	5	40	34-103
2,4,6-Trichlorophenol	50	41	82	2	40	34-127
2,4,5-Trichlorophenol	50	42	84	0	40	32-131
2-Chloronaphthalene	50	37	74	3	40	47-116
2-Nitroaniline	50	44	88	0	40	51-120

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3XLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dimethylphthalate	50	44	88	2	40	53-124
Acenaphthylene	50	42	84	2	40	50-119
2,6-Dinitrotoluene	50	42	84	2	40	52-122
3-Nitroaniline	50	37	74	0	40	47-115
Acenaphthene	50	43	86	2	40	50-121
2,4-Dinitrophenol	50	30	60	0	40	0-144
4-Nitrophenol	50	13	26	8	40	0-160
Dibenzofuran	50	42	84	2	40	51-122
2,4-Dinitrotoluene	50	43	86	2	40	52-126
Diethylphthalate	50	43	86	2	40	53-126
4-Chlorophenyl-phenylet	50	41	82	2	40	50-124
Fluorene	50	43	86	2	40	52-125
4-Nitroaniline	50	37	74	3	40	47-117
4,6-Dinitro-2-methylphe	50	37	74	5	40	3-151
N-Nitrosodiphenylamine	50	43	86	2	40	50-150
4-Bromophenyl-phenyleth	50	39	78	5	40	51-124
Hexachlorobenzene	50	42	84	2	40	52-124
Pentachlorophenol	50	39	78	0	40	5-125
Phenanthrene	50	44	88	2	40	52-128
Anthracene	50	45	90	2	40	52-127
Carbazole	50	47	94	2	40	54-126
Di-n-butylphthalate	50	45	90	2	40	56-132
Fluoranthene	50	45	90	2	40	53-130
Pyrene	50	44	88	2	40	53-131
Butylbenzylphthalate	50	47	94	2	40	54-128
3,3'-Dichlorobenzidine	50	41	82	2	40	41-117
Benzo(a)anthracene	50	44	88	4	40	56-124
Chrysene	50	44	88	2	40	53-123

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3XLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
bis(2-Ethylhexyl)phthal	50	43	86	2	40	56-127
Di-n-octylphthalate	50	45	90	4	40	59-138
Benzo(b)fluoranthene	50	42	84	2	40	58-126
Benzo(k)fluoranthene	50	48	96	4	40	60-124
Benzo(a)pyrene	50	43	86	4	40	61-121
Indeno(1,2,3-cd)pyrene	50	42	84	5	40	23-152
Dibenzo(a,h)anthracene	50	42	84	5	40	60-122
Benzo(g,h,i)perylene	50	42	84	2	40	57-124

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 64 outside limits
Spike Recovery: 0 out of 128 outside limits

COMMENTS: _____

000347

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3PLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Phenol	1700		1400	82	45-109
bis(2-Chloroethyl)Ether	1700		1300	76	43-104
2-Chlorophenol	1700		1400	82	43-107
1,3-Dichlorobenzene	*1700*		*1300*	*76*	*40-101*
1,4-Dichlorobenzene	1700		1300	76	41-102
1,2-Dichlorobenzene	1700		1400	82	41-105
2-Methylphenol	1700		1500	88	45-108
2,2'-oxybis(1-Chloropro	1700		1200	70	41-105
4-Methylphenol	1700		1400	82	48-109
N-Nitroso-di-n-prop.(1)	1700		1600	94	44-111
Hexachloroethane	1700		1300	76	40-102
Nitrobenzene	1700		1200	70	44-108
Isophorone	1700		1400	82	42-113
2-Nitrophenol	1700		1400	82	42-111
2,4-Dimethylphenol	1700		1200	70	37-107
2,4-Dichlorophenol	1700		1500	88	49-110
1,2,4-Trichlorobenzene	1700		1500	88	42-107
Naphthalene	1700		1400	82	44-112
4-Chloroaniline	1700		470	28	4-102
bis(2-Chloroethoxy)meth	1700		1400	82	46-108
Hexachlorobutadiene	1700		1600	94	41-108
4-Chloro-3-Methylphenol	1700		1400	82	56-117
2-Methylnaphthalene	1700		1400	82	46-110
Hexachlorocyclopentadie	1700		1100	65	10-118
2,4,6-Trichlorophenol	1700		1500	88	53-115
2,4,5-Trichlorophenol	1700		1500	88	59-113
2-Chloronaphthalene	*1700*		*1200*	*70*	*52-112*
2-Nitroaniline	1700		1200	70	63-117

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

000348

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3PLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Dimethylphthalate	1700		1500	88	62-117
Acenaphthylene	1700		1400	82	58-112
2,6-Dinitrotoluene	1700		1400	82	60-118
3-Nitroaniline	1700		900	53	30-117
Acenaphthene	1700		1400	82	53-116
2,4-Dinitrophenol	1700		1400	82	15-136
4-Nitrophenol	1700		1200	70	50-129
Dibenzofuran	1700		1300	76	61-112
2,4-Dinitrotoluene	1700		1400	82	59-123
Diethylphthalate	1700		1400	82	61-120
4-Chlorophenyl-phenylet	1700		1400	82	59-116
Fluorene	1700		1300	76	63-115
4-Nitroaniline	1700		980	58	35-124
4,6-Dinitro-2-methylphe	1700		1500	88	33-130
N-Nitrosodiphenylamine	1700		1400	82	50-150
4-Bromophenyl-phenyleth	1700		1500	88	66-110
Hexachlorobenzene	1700		1600	94	67-112
Pentachlorophenol	1700		1600	94	19-130
Phenanthrene	1700		1400	82	70-115
Anthracene	*1700*		*1400*	*82*	*63-117*
Carbazole	1700		1500	88	62-122
Di-n-butylphthalate	1700		1500	88	70-120
Fluoranthene	1700		1500	88	64-121
Pyrene	1700		1500	88	66-120
Butylbenzylphthalate	1700		1500	88	63-123
3,3'-Dichlorobenzidine	1700		1100	65	8-124
Benzo(a)anthracene	1700		1500	88	50-129
Chrysene	1700		1400	82	41-150

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

000349

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3PLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
bis(2-Ethylhexyl)phthal	1700		1400	82	64-115
Di-n-octylphthalate	1700		1500	88	*69-137*
Benzo(b)fluoranthene	1700		1500	88	61-129
Benzo(k)fluoranthene	1700		1700	100	62-130
Benzo(a)pyrene	1700		1500	88	66-119
Indeno(1,2,3-cd)pyrene	1700		1400	82	56-128
Dibenzo(a,h)anthracene	1700		1400	82	58-128
Benzo(g,h,i)perylene	1700		1400	82	32-149

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and *RPD values with an asterisk*
* Values outside of QC limits

COMMENTS: _____

000350

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3PLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	1700	1300	76	8	40	45-109
bis(2-Chloroethyl)Ether	1700	1200	70	8	40	43-104
2-Chlorophenol	1700	1300	76	8	40	43-107
1,3-Dichlorobenzene	1700	1200	70	8	40	40-101
1,4-Dichlorobenzene	1700	1200	70	8	40	41-102
1,2-Dichlorobenzene	1700	1300	76	8	40	41-105
2-Methylphenol	1700	1400	82	7	40	45-108
2,2'-oxybis(1-Chloropro	1700	1100	65	7	40	41-105
4-Methylphenol	1700	1300	76	8	40	48-109
N-Nitroso-di-n-prop.(1)	1700	1400	82	14	40	44-111
Hexachloroethane	1700	1200	70	8	40	40-102
Nitrobenzene	1700	1100	65	7	40	44-108
Isophorone	1700	1200	70	16	40	42-113
2-Nitrophenol	1700	1200	70	16	40	42-111
2,4-Dimethylphenol	1700	1200	70	0	40	37-107
2,4-Dichlorophenol	1700	1400	82	7	40	49-110
1,2,4-Trichlorobenzene	*1700*	*1400*	*82*	*7*	*40*	*42-107*
Naphthalene	1700	1300	76	8	40	44-112
4-Chloroaniline	1700	540	32	13	40	4-102
bis(2-Chloroethoxy)meth	1700	1300	76	8	40	46-108
Hexachlorobutadiene	1700	1400	82	14	40	41-108
4-Chloro-3-Methylphenol	1700	1400	82	0	40	56-117
2-Methylnaphthalene	1700	1300	76	8	40	46-110
Hexachlorocyclopentadie	*1700*	*990*	*58*	*11*	*40*	*10-128*
2,4,6-Trichlorophenol	1700	1400	82	7	40	53-115
2,4,5-Trichlorophenol	1700	1400	82	7	40	59-113
2-Chloronaphthalene	1700	1100	65	7	40	52-112
2-Nitroaniline	1700	1100	65	7	40	63-117

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3PLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dimethylphthalate	1700	1400	82	7	40	62-117
Acenaphthylene	*1700*	*1300*	*76*	*8*	*40*	*58-112*
2,6-Dinitrotoluene	1700	1400	82	0	40	60-118
3-Nitroaniline	1700	930	55	4	40	30-117
Acenaphthene	1700	1300	76	8	40	53-116
2,4-Dinitrophenol	1700	1400	82	0	40	15-136
4-Nitrophenol	1700	1100	65	7	40	50-129
Dibenzofuran	1700	1300	76	0	40	61-112
2,4-Dinitrotoluene	*1700*	*1300*	*76*	*8*	*40*	*59-123*
Diethylphthalate	1700	1400	82	0	40	61-120
4-Chlorophenyl-phenylet	1700	1300	76	8	40	59-116
Fluorene	1700	1300	76	0	40	63-115
4-Nitroaniline	1700	1000	59	2	40	35-124
4,6-Dinitro-2-methylphe	1700	1400	82	7	40	33-130
N-Nitrosodiphenylamine	1700	1300	76	8	40	50-150
4-Bromophenyl-phenyleth	*1700*	*1400*	*82*	*7*	*40*	*66-110*
Hexachlorobenzene	1700	1600	94	0	40	67-112
Pentachlorophenol	1700	1500	88	6	40	19-130
Phenanthrene	1700	1400	82	0	40	70-115
Anthracene	1700	1400	82	0	40	63-117
Carbazole	1700	1400	82	7	40	62-122
Di-n-butylphthalate	1700	1400	82	7	40	70-120
Fluoranthene	*1700*	*1500*	*88*	*0*	*40*	*64-121*
Pyrene	1700	1400	82	7	40	66-120
Butylbenzylphthalate	1700	1500	88	0	40	63-123
3,3'-Dichlorobenzidine	1700	1200	70	7	40	8-124
Benzo(a)anthracene	1700	1500	88	0	40	50-129
Chrysene	1700	1400	82	0	40	41-150

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3PLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
bis(2-Ethylhexyl)phthal	1700	1400	82	0	40	64-115
Di-n-octylphthalate	1700	1500	88	0	40	69-137
Benzo(b)fluoranthene	1700	1400	82	7	40	61-129
Benzo(k)fluoranthene	1700	1600	94	6	40	62-130
Benzo(a)pyrene	1700	1500	88	0	40	66-119
Indeno(1,2,3-cd)pyrene	1700	1400	82	0	40	56-128
Dibenzo(a,h)anthracene	1700	1400	82	0	40	58-128
Benzo(g,h,i)perylene	1700	1400	82	0	40	32-149

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 64 outside limits
Spike Recovery: 0 out of 128 outside limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3ZLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Phenol	50		13	26	0-127
bis(2-Chloroethyl)Ether	50		35	70	46-109
2-Chlorophenol	50		37	74	*22-117*
1,3-Dichlorobenzene	50		36	72	28-103
1,4-Dichlorobenzene	50		36	72	28-104
1,2-Dichlorobenzene	50		36	72	29-107
2-Methylphenol	50		33	66	40-104
2,2'-oxybis(1-Chloropro	50		41	82	10-134
4-Methylphenol	50		28	56	35-106
N-Nitroso-di-n-prop.(1)	50		*40*	*80*	*44-122*
Hexachloroethane	50		35	70	24-104
Nitrobenzene	50		36	72	47-112
Isophorone	50		38	76	48-118
2-Nitrophenol	50		41	82	29-122
2,4-Dimethylphenol	50		30	60	14-109
2,4-Dichlorophenol	50		41	82	31-122
1,2,4-Trichlorobenzene	50		38	*76*	*33-108*
Naphthalene	50		40	80	38-117
4-Chloroaniline	50		9	18	0-152
bis(2-Chloroethoxy)meth	50		39	78	49-112
Hexachlorobutadiene	50		34	68	28-109
4-Chloro-3-Methylphenol	50		40	80	48-117
2-Methylnaphthalene	50		40	80	43-113
Hexachlorocyclopentadie	50		23	46	34-103
2,4,6-Trichlorophenol	*50*		41	82	34-127
2,4,5-Trichlorophenol	50		42	84	32-131
2-Chloronaphthalene	50		36	72	47-116
2-Nitroaniline	50		40	80	51-120

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3ZLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dimethylphthalate	50		44	88	53-124
Acenaphthylene	*50*		*41*	*82*	*50-119*
2,6-Dinitrotoluene	50		43	86	52-122
3-Nitroaniline	50		38	76	47-115
Acenaphthene	50		41	82	50-121
2,4-Dinitrophenol	50		40	80	0-144
4-Nitrophenol	50		14	28	0-160
Dibenzofuran	50		41	82	51-122
2,4-Dinitrotoluene	50		44	88	52-126
Diethylphthalate	50		44	88	53-126
4-Chlorophenyl-phenylet	50		39	78	50-124
Fluorene	50		41	82	52-125
4-Nitroaniline	50		42	84	47-117
4,6-Dinitro-2-methylphe	50		44	88	3-151
N-Nitrosodiphenylamine	50		41	82	50-150
4-Bromophenyl-phenyleth	50		38	76	51-124
Hexachlorobenzene	50		44	88	52-124
Pentachlorophenol	*50*		*43*	*86*	*5-125*
Phenanthrene	50		44	88	52-128
Anthracene	50		42	84	52-127
Carbazole	50		50	100	54-126
Di-n-butylphthalate	50		46	92	56-132
Fluoranthene	50		44	88	53-130
Pyrene	50		47	94	53-131
Butylbenzylphthalate	50		53	106	54-128
3,3'-Dichlorobenzidine	50		37	74	41-117
Benzo(a)anthracene	50		44	88	56-124
Chrysene	50		45	90	53-123

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: S3ZLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
bis(2-Ethylhexyl)phthal	50		48	96	56-127
Di-n-octylphthalate	50		48	96	59-138
Benzo(b)fluoranthene	50		44	88	58-126
Benzo(k)fluoranthene	50		50	100	60-124
Benzo(a)pyrene	50		45	90	61-121
Indeno(1,2,3-cd)pyrene	50		44	88	23-152
Dibenzo(a,h)anthracene	50		44	88	60-122
Benzo(g,h,i)perylene	50		45	90	57-124

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 64 outside limits

COMMENTS:

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
SBLK3X

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID: S3C0261 Lab Sample ID: MB-4279

Instrument ID: S3 Date Extracted: 11/11/02

Matrix: (soil/water) WATER Date Analyzed: 11/13/02

Level: (low/med) LOW Time Analyzed: 1437

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	S3XLCS	LCS-4279	S3C0262	11/13/02
02	S3XLCSD	LCSD-4279	S3C0264	11/13/02
03	AOC112E1	A1627-07D	S3C0265	11/13/02
04	AOC2E3	A1627-13D	S3C0266	11/13/02
05	AOC13E2	A1627-25D	S3C0267	11/13/02
06	AOC2E4	A1627-51D	S3C0268	11/13/02
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
SBLK3P

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID: S3C0376 Lab Sample ID: MB-4285

Instrument ID: S3 Date Extracted: 11/12/02

Matrix: (soil/water) SOIL Date Analyzed: 11/21/02

Level: (low/med) LOW Time Analyzed: 1204

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	12TB1524	A1627-02C	S3C0338	11/18/02
02	12TB1068	A1627-03C	S3C0339	11/18/02
03	13SSTB3435	A1627-29C	S3C0340	11/18/02
04	13SSTB2413	A1627-30C	S3C0341	11/18/02
05	13SSTB3124	A1627-31C	S3C0353	11/19/02
06	S3PLCS	LCS-4285	S3C0377	11/21/02
07	S3PLCSD	LCSD-4285	S3C0378	11/21/02
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.: SBLK3Z

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID: S3C0453 Lab Sample ID: MB-4362

Instrument ID: S3 Date Extracted: 11/14/02

Matrix: (soil/water) WATER Date Analyzed: 11/25/02

Level: (low/med) LOW Time Analyzed: 1911

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	AOC2BB1	A1627-36C	S3C0349	11/19/02
02	AOC2BB2	A1627-37C	S3C0352	11/19/02
03	S3ZLCS	LCS-4362	S3C0454	11/25/02
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID: S3C0229 DFTPP Injection Date: 11/12/02

Instrument ID: S3 DFTPP Injection Time: 1628

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	45.4
68	Less than 2.0% of mass 69	0.9 (1.9)1
69	Mass 69 relative abundance	48.6
70	Less than 2.0% of mass 69	0.3 (0.7)1
127	40.0 - 60.0% of mass 198	57.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.4
275	10.0 - 30.0% of mass 198	23.9
365	Greater than 1.0% of mass 198	2.37
441	Present, but less than mass 443	11.9
442	40.0 - 99.9% of mass 198	82.5
443	17.0 - 23.0% of mass 442	16.7 (20.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0503K	SS1112B	S3C0230	11/12/02	1650
02	SSTD1603K	SS1112C	S3C0231	11/12/02	1733
03	SSTD0103K	SS1112D	S3C0232	11/12/02	1815
04	SSTD0203K	SS1112E	S3C0233	11/12/02	1857
05	SSTD0803K	SS1112F	S3C0234	11/12/02	1939
06	SSTD1203K	SS1112G	S3C0235	11/12/02	2021
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID: S3C0256 DFTPP Injection Date: 11/13/02

Instrument ID: S3 DFTPP Injection Time: 1125

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	44.4
68	Less than 2.0% of mass 69	0.7 (1.6)1
69	Mass 69 relative abundance	47.7
70	Less than 2.0% of mass 69	0.4 (0.9)1
127	40.0 - 60.0% of mass 198	57.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	22.9
365	Greater than 1.0% of mass 198	2.28
441	Present, but less than mass 443	11.6
442	40.0 - 99.9% of mass 198	78.8
443	17.0 - 23.0% of mass 442	15.5 (19.6)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0503M	SS1113A	S3C0257	11/13/02	1147
02	SBLK3X	MB-4279	S3C0261	11/13/02	1437
03	S3XLCS	LCS-4279	S3C0262	11/13/02	1518
04	S3XLCSD	LCSD-4279	S3C0264	11/13/02	1642
05	AOC112E1	A1627-07D	S3C0265	11/13/02	1725
06	AOC2E3	A1627-13D	S3C0266	11/13/02	1807
07	AOC13E2	A1627-25D	S3C0267	11/13/02	1849
08	AOC2E4	A1627-51D	S3C0268	11/13/02	1931
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID: S3C0324 DFTPP Injection Date: 11/18/02

Instrument ID: S3 DFTPP Injection Time: 1048

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	58.9
68	Less than 2.0% of mass 69	0.7 (1.5)1
69	Mass 69 relative abundance	49.0
70	Less than 2.0% of mass 69	0.5 (1.1)1
127	40.0 - 60.0% of mass 198	56.4
197	Less than 1.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	24.3
365	Greater than 1.0% of mass 198	2.62
441	Present, but less than mass 443	12.2
442	40.0 - 99.9% of mass 198	87.5
443	17.0 - 23.0% of mass 442	16.6 (18.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0503R	SS1118A	S3C0325	11/18/02	1110
02	12TB1524	A1627-02C	S3C0338	11/18/02	2021
03	12TB1068	A1627-03C	S3C0339	11/18/02	2103
04	13SSTB3435	A1627-29C	S3C0340	11/18/02	2144
05	13SSTB2413	A1627-30C	S3C0341	11/18/02	2227
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID: S3C0344 DFTPP Injection Date: 11/19/02

Instrument ID: S3 DFTPP Injection Time: 1025

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	55.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	45.4
70	Less than 2.0% of mass 69	0.5 (1.1)1
127	40.0 - 60.0% of mass 198	53.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	23.9
365	Greater than 1.0% of mass 198	2.67
441	Present, but less than mass 443	13.5
442	40.0 - 99.9% of mass 198	91.7
443	17.0 - 23.0% of mass 442	18.6 (20.3)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0503S	SS1119A	S3C0345	11/19/02	1047
02	AOC2BB1	A1627-36C	S3C0349	11/19/02	1346
03	AOC2BB2	A1627-37C	S3C0352	11/19/02	1552
04	13SSTB3124	A1627-31C	S3C0353	11/19/02	1632
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID: S3C0374 DFTPP Injection Date: 11/21/02

Instrument ID: S3 DFTPP Injection Time: 1057

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	47.7
70	Less than 2.0% of mass 69	0.4 (0.8)1
127	40.0 - 60.0% of mass 198	57.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.2
275	10.0 - 30.0% of mass 198	25.4
365	Greater than 1.0% of mass 198	2.35
441	Present, but less than mass 443	12.6
442	40.0 - 99.9% of mass 198	88.0
443	17.0 - 23.0% of mass 442	17.1 (19.5)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0503U	SS1121A	S3C0375	11/21/02	1119
02	SBLK3P	MB-4285	S3C0376	11/21/02	1204
03	S3PLCS	LCS-4285	S3C0377	11/21/02	1244
04	S3PLCSD	LCSD-4285	S3C0378	11/21/02	1324
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID: S3C0440 DFTPP Injection Date: 11/25/02

Instrument ID: S3 DFTPP Injection Time: 1017

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	48.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	47.4
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	40.0 - 60.0% of mass 198	54.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	23.7
365	Greater than 1.0% of mass 198	2.91
441	Present, but less than mass 443	13.0
442	40.0 - 99.9% of mass 198	95.9
443	17.0 - 23.0% of mass 442	18.4 (19.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SBLK3Z	MB-4362	S3C0453	11/25/02	1911
02	S3ZLCS	LCS-4362	S3C0454	11/25/02	1951
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): S3C0257 Date Analyzed: 11/13/02

Instrument ID: S3 Time Analyzed: 1147

	IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
12 HOUR STD	421177	8.10	1455230	10.54	784472	14.09
UPPER LIMIT	842354	8.60	2910460	11.04	1568944	14.59
LOWER LIMIT	210589	7.60	727615	10.04	392236	13.59
EPA SAMPLE NO.						
01 SBLK3X	419202	8.09	1458546	10.54	791640	14.09
02 S3XLCS	405360	8.10	1406228	10.53	760651	14.09
03 S3XLCSD	389250	8.09	1361763	10.54	734819	14.09
04 AOC112E1	381024	8.09	1344892	10.53	721932	14.09
05 AOC2E3	396969	8.09	1389909	10.53	745495	14.09
06 AOC13E2	394701	8.09	1374337	10.53	735271	14.09
07 AOC2E4	384180	8.09	1346313	10.53	726459	14.09
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): S3C0257 *Date Analyzed: 11/13/02*

Instrument ID: S3 Time Analyzed: 1147

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1289774	17.14	1381080	22.58	989755	25.46
	UPPER LIMIT	2579548	17.64	2762160	23.08	1979510	25.96
	LOWER LIMIT	644887	16.64	690540	22.08	494878	24.96
	EPA SAMPLE NO.						
01	SBLK3X	1261113	17.14	1290686	22.57	939563	25.45
02	S3XLCS	1224019	17.14	1306938	22.58	924701	25.45
03	S3XLCSD	1180843	17.14	1252560	22.57	887131	25.45
04	AOC112E1	1159182	17.13	1173714	22.56	849308	25.44
05	AOC2E3	1185821	17.13	1203182	22.57	879655	25.45
06	*AOC13E2*	*1175720*	*17.13*	*1189875*	*22.57*	*860759*	*25.45*
07	AOC2E4	1160336	17.13	1166605	22.57	847802	25.44
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): S3C0325 Date Analyzed: 11/18/02

Instrument ID: S3 Time Analyzed: 1110

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	436641	7.66	1527999	10.09	858045	13.62
	UPPER LIMIT	873282	8.16	3055998	10.59	1716090	14.12
	LOWER LIMIT	218321	7.16	764000	9.59	429023	13.12
	EPA SAMPLE NO.						
01	12TB1524	387184	7.67	1361095	10.09	754985	13.62
02	12TB1068	386161	7.67	1344554	10.09	757890	13.62
03	13SSTB3435	399264	7.67	1410147	10.08	794669	13.62
04	13SSTB2413	404651	7.66	1398922	10.08	777080	13.62
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): S3C0325 Date Analyzed: 11/18/02

Instrument ID: S3 Time Analyzed: 1110

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1345145	16.65	1471832	22.05	1024471	24.80
	UPPER LIMIT	2690290	17.15	2943664	22.55	2048942	25.30
	LOWER LIMIT	672573	16.15	735916	21.55	512236	24.30
	EPA SAMPLE NO.						
01	12TB1524	1175455	16.65	1210637	22.06	904804	24.81
02	12TB1068	1182361	16.65	1230181	22.06	909466	24.81
03	13SSTB3435	1235347	16.65	1272463	22.05	950730	24.81
04	13SSTB2413	1212693	16.65	1234389	22.05	926861	24.81
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): S3C0345 Date Analyzed: 11/19/02

Instrument ID: S3 Time Analyzed: 1047

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	564667	7.56	1942026	9.98	1064523	13.51
	UPPER LIMIT	*1129334*	*8.06*	*3884052*	10.48	*2129046*	14.01
	LOWER LIMIT	282334	7.06	971013	9.48	532262	13.01
	EPA SAMPLE NO.						
01	AOC2BB1	553257	7.56	1929486	9.97	1061924	13.50
02	*AOC2BB2*	512048	7.56	1773661	9.97	978571	13.50
03	13SSTB3124	410467	7.56	1436834	9.97	787574	13.50
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): S3C0345 Date Analyzed: 11/19/02

Instrument ID: S3 Time Analyzed: 1047

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	1685192	16.52	1838945	21.93	1217203	24.65
UPPER LIMIT	3370384	17.02	3677890	22.43	2434406	25.15
LOWER LIMIT	842596	16.02	919473	21.43	608602	24.15
EPA SAMPLE NO.						
01 AOC2BB1	1664446	16.52	1703735	21.92	1235006	24.65
02 AOC2BB2	1531445	16.52	1558685	21.92	1137205	24.64
03 13SSTB3124	1226390	16.52	1260746	21.91	931540	24.64
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): S3C0375 Date Analyzed: 11/21/02

Instrument ID: S3 Time Analyzed: 1119

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	748699	7.01	2612461	9.41	1547751	12.91
UPPER LIMIT	1497398	7.51	5224922	9.91	3095502	13.41
LOWER LIMIT	374350	6.51	1306231	8.91	773876	12.41
EPA SAMPLE NO.						
01 SBLK3P	754207	7.02	2629249	9.41	1511202	12.91
02 S3PLCS	823558	7.02	2852647	9.41	1634583	12.91
03 S3PLCSD	793235	7.02	2807349	9.41	1642165	12.91
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): S3C0375 Date Analyzed: 11/21/02

Instrument ID: S3 Time Analyzed: 1119

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	2511273	15.91	2805381	21.28	1898689	23.95
UPPER LIMIT	5022546	16.41	5610762	21.78	3797378	24.45
LOWER LIMIT	1255637	15.41	1402691	20.78	949345	23.45
EPA SAMPLE NO.						
01 SBLK3P	2369160	15.91	2410982	21.26	1737186	23.94
02 S3PLCS	2510905	15.91	2697487	21.28	1780908	23.94
03 S3PLCSD	2581749	15.91	2797548	21.28	1878702	23.95
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): S3C0441 Date Analyzed: 11/25/02

Instrument ID: S3 Time Analyzed: 1040

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	370563	6.75	1313881	9.13	728343	12.61
UPPER LIMIT	741126	7.25	2627762	9.63	1456686	13.11
LOWER LIMIT	185282	6.25	656941	8.63	364172	12.11
EPA SAMPLE NO.						
01 SBLK3Z	418624	6.75	1515760	9.12	851730	12.61
02 S3ZLCS	443134	6.75	1584628	9.13	895107	12.61
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab File ID (Standard): S3C0441 Date Analyzed: 11/25/02

Instrument ID: S3 Time Analyzed: 1040

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	1191756	15.60	1176295	20.95	926030	23.61
UPPER LIMIT	2383512	16.10	2352590	21.45	1852060	24.11
LOWER LIMIT	595878	15.10	588148	20.45	463015	23.11
EPA SAMPLE NO.						
01 SBLK3Z	1367459	15.59	1394941	20.94	1077675	23.61
02 S3ZLCS	1463777	15.60	1437243	20.95	1085772	23.61
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12TB1068

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-03C

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3C0339

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: 9 decanted: (Y/N) N Date Extracted:11/12/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)Ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-Methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	730	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	730	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	730	U
83-32-9	Acenaphthene	360	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12TB1068

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-03C

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3C0339

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: 9 decanted: (Y/N) N Date Extracted:11/12/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	730	U
100-02-7	4-Nitrophenol	730	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	730	U
534-52-1	4,6-Dinitro-2-methylphenol	730	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	730	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenzo(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	360	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
12TB1068

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-03C

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3C0339

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: 9 decanted: (Y/N) N Date Extracted:11/12/02

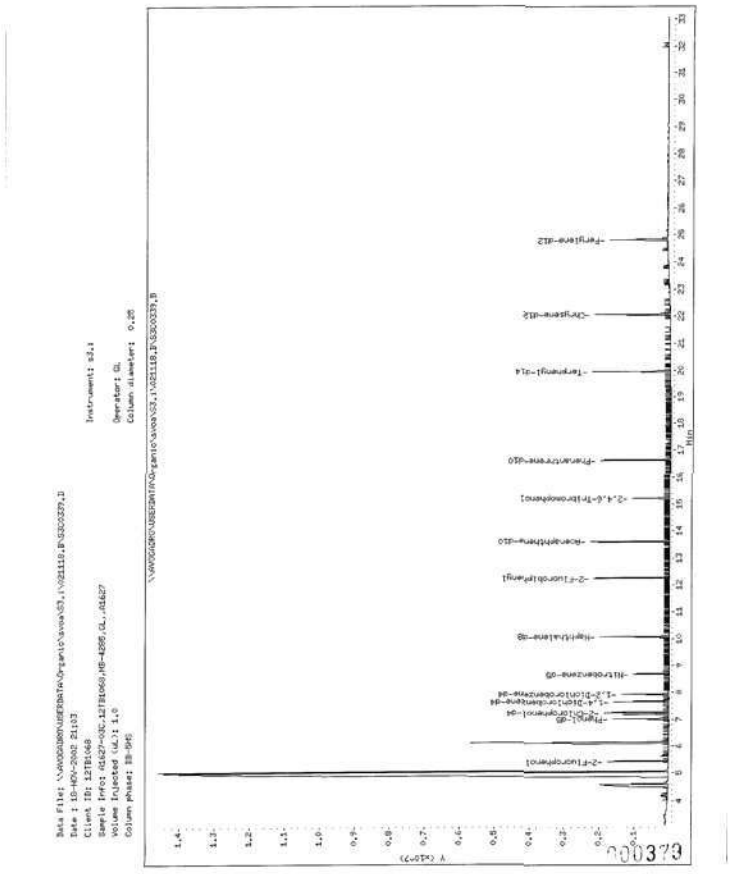
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.18	1300	J
2.	UNKNOWN	10.03	180	J
3.	UNKNOWN	32.03	200	J
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				



000379

Data File: S3C0339.D
Report Date: 26-Nov-2002 12:10

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021118.B\S3C0339.D
Lab Smp Id: A1627-03C Client Smp ID: 12TB1068
Inj Date : 18-NOV-2002 21:03
Operator : GL Inst ID: s3.i
Smp Info : A1627-03C,12TB1068,MB-4285,GL,,A1627
Misc Info : 0,,,2,,,,30.2,,,12-NOV-02,08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021118.B\S3_8270C.m
Meth Date : 19-Nov-2002 07:26 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D ✓
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub ✓
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.200 ✓	Weight of sample extracted (g)
M	9.000 ✓	% Moisture

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
$ 3 2-Fluorophenol	112	5.438	5.422	(0.703)	751032	55.8824	2000
$ 5 Phenol-d5	99	7.019	7.025	(0.914)	915120	54.5171	2000
$ 9 2-Chlorophenol-d4	132	7.259	7.260	(0.947)	792846	57.7889	2100
* 12 1,4-Dichlorobenzene-d4	152	7.665	7.671	(1.000)	986141	40.0000	
$ 14 1,2-Dichlorobenzene-d4	152	7.963	7.969	(1.036)	930695	38.8201	1400
$ 22 Nitrobenzene-d5	82	8.696	8.707	(0.862)	933321	37.4458	1400
* 31 Naphthalene-d8	136	10.085	10.096	(1.000)	1344594	40.0000	
$ 41 2-Fluorobiphenyl	172	12.270	12.281	(0.921)	1054426	39.8764	1400
* 48 Acenaphthene-d10	164	13.616	13.627	(1.000)	757890	40.0000	
$ 60 2,4,6-Tribromophenol	330	15.230	15.241	(0.915)	210329	57.4325	2100
* 64 Phenanthrene-d10	188	16.645	16.656	(1.000)	1182361	40.0000	
$ 72 Terphenyl-d14	244	19.952	19.958	(0.905)	1171479	44.5140	1400
* 76 Chrysene-d12	240	22.067	22.079	(1.000)	1230191	40.0000	

000380

Data File: S3C0339.D
Report Date: 26-Nov-2002 12:10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
* 83 Perylene-d12	264	24.808	24.825	(1.000)	903464	40.0000	

11/14/02

000381

Data File: S3C0339.D
Report Date: 26-Nov-2002 12:10

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021118.B\S3C0339.D
Lab Smp Id: A1627-03C Client Smp ID: 12TB1068
Inj Date : 18-NOV-2002 21:03
Operator : GL Inst ID: s3.i
Smp Info : A1627-03C,12TB1068,MB-4285,GL,,A1627
Misc Info : 0,,,2,,,,30.2,,,12-NOV-02,08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021118.B\S3_8270C.m
Meth Date : 19-Nov-2002 07:26 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.200	Weight of sample extracted (g)
M	9.000	% Moisture

ISTD	RT	AREA	AMOUNT
* 12 1,4-Dichlorobenzene-d4	7.665	2238428	40.000
* 31 Naphthalene-d8	10.085	2922039	40.000
* 83 Perylene-d12	24.808	3216572	40.000

RT	AREA	CONCENTRATIONS ON-COL(ng)	CONCENTRATIONS FINAL(ug/Kg)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	QUANT CPND #
Unknown			CAS #:				
7.185	1968336	35.1735414	1300	D		0	12

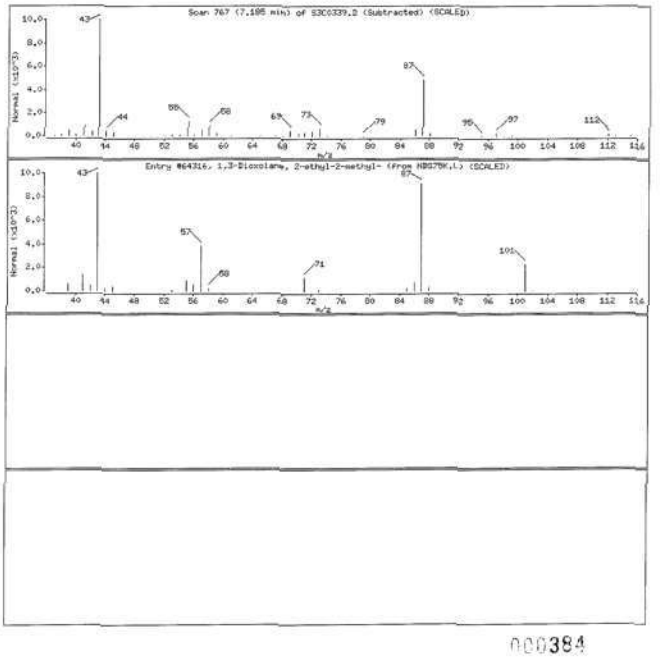
000382

Data File: S3C0339.D
Report Date: 26-Nov-2002 12:10

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown			CAS #:				
10.032	343284	5.25515488	180	0		0	31
Unknown			CAS #:				
32.031	451088	6.40864955	208	d		0	82

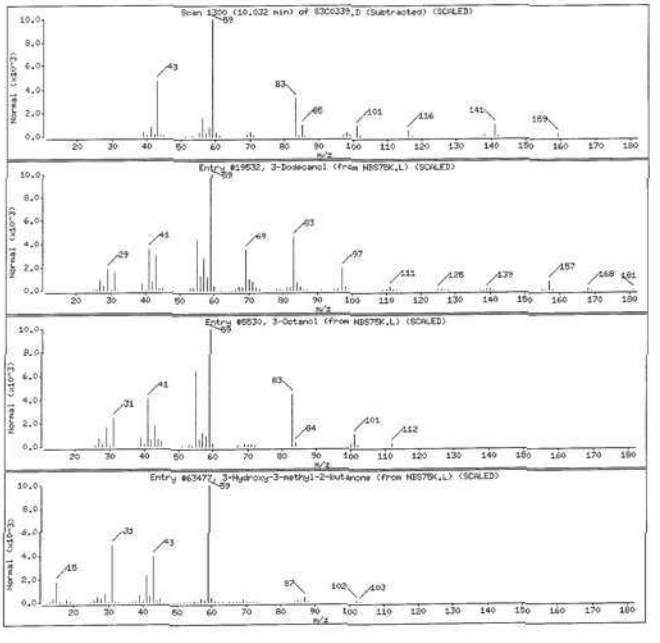
Data File: \\AVOGADRO\USERDATA\Organic\avoa\S3.i\021118.B\S3C0339.D
Date : 18-NOV-2002 21:03
Client ID: 12TB1068 Instrument: s3.i
Sample Info: A1627-03C,12TB1068,MB-4285,GL,,A1627
Volume Injected (uL): 1.0 Operator: GL
Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,3-Dioxolane, 2-ethyl-2-methyl-	126-39-6	NBS75K.L	64316	76	C6H12O2	116



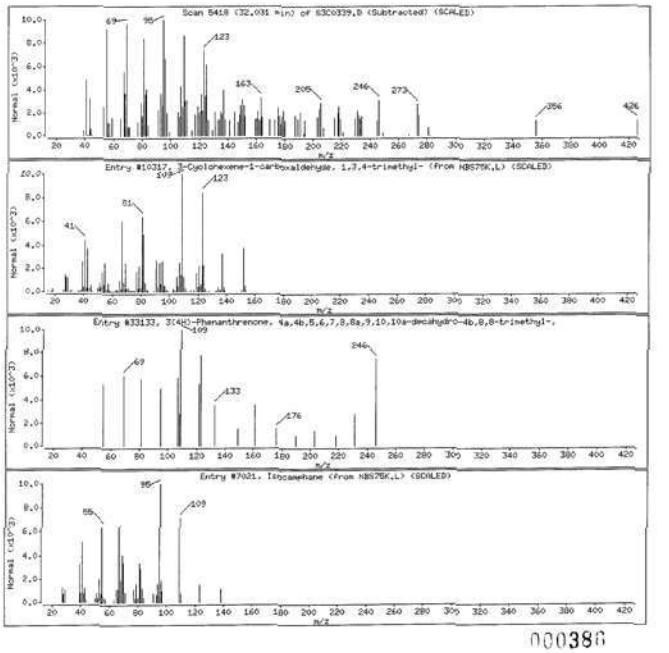
Data File: \\AVOGADRO\USERDATA\Organic\avoa\S3.i\021118.B\S3C0339.D
Date : 18-NOV-2002 21:03
Client ID: 12TB1068 Instrument: s3.i
Sample Info: A1627-03C,12TB1068,MB-4285,GL,,A1627
Volume Injected (uL): 1.0 Operator: GL
Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
3-Dodecanol	10203-30-2	NBS75K.L	19532	38	C12H26O	186
3-Octanol	20296-29-1	NBS75K.L	6830	38	C8H18O	130
3-Hydroxy-3-methyl-2-butanone	115-22-0	NBS75K.L	63477	37	C5H10O2	102



Data File: \\AVOGADRO\USERDATA\Organic\avoa\S3.i\021118.B\S3C0339.D
Date : 18-NOV-2002 21:03
Client ID: 12TB1068 Instrument: s3.i
Sample Info: A1627-03C,12TB1068,MB-4285,GL,,A1627
Volume Injected (uL): 1.0 Operator: GL
Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
3-Cyclohexene-1-carboxaldehyde, 1,3,4-tr	40702-26-9	NBS75K.L	10317	38	C10H16O	152
3(4H)-Phenanthrenone, 4a,4b,5,6,7,8,8a,9	57684-12-5	NBS75K.L	33133	38	C17H26O	246
Isocamphane	5-00-0	NBS75K.L	7021	30	C10H18	138



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12TB1524

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-02C
Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3C0338
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	660	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	660	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	660	U
83-32-9	Acenaphthene	330	U

FORM I SV-1 OLM03.0

000387

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
12TB1524

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-02C
Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3C0338
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	660	U
100-02-7	4-Nitrophenol	660	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	660	U
534-52-1	4,6-Dinitro-2-methylphenol	660	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	660	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

000388

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
12TB1524

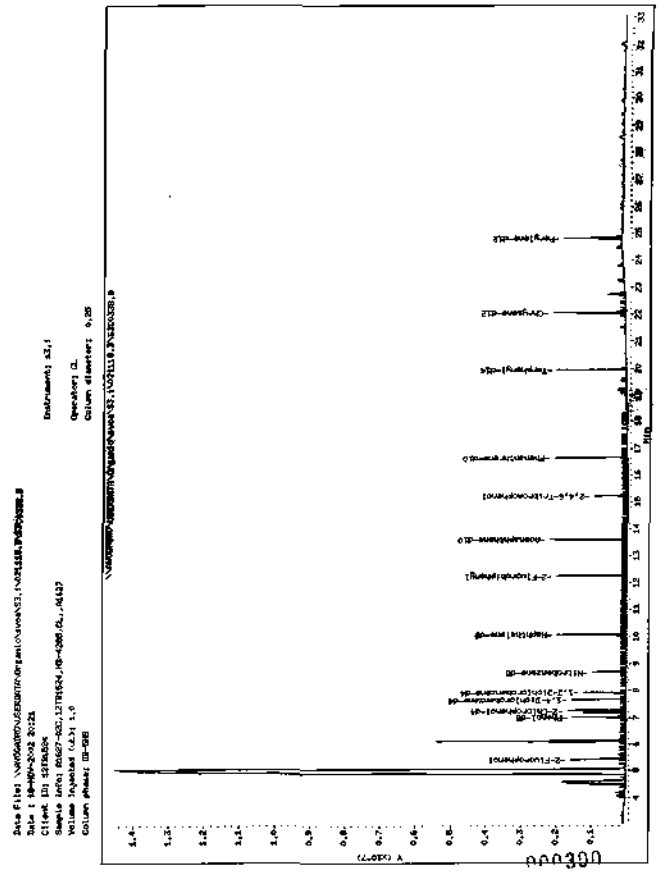
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-02C
Sample wt/vol: 30.2 (g/mL) G Lab File ID: S3C0338
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: ____ decanted: (Y/N)___ Date Extracted: 11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 5 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.19	1100	J
2.		UNKNOWN	7.90	280	J
3.		UNKNOWN	10.03	160	J
4.	10544-50-0	SULFUR, MOL. (S8)	19.23	220	NJ
5.		UNKNOWN	22.74	280	J
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC OLM03.0

000389



000390

Data File: S3C0338.D
Report Date: 27-Nov-2002 11:49

Mitkem Corporation

```
Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021118.B\S3C0338.D
Lab Smp Id: A1627-02C                    Client Smp ID: 12TB1524
Inj Date  : 18-NOV-2002 20:21
Operator  : GL                           Inst ID: s3.i
Smp Info  : A1627-02C,12TB1524,MB-4285,GL,,A1627
Misc Info : 0,,,2,,,,30.2,,,12-NOV-02,08-NOV-02
Comment   :
Method    : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021118.B\S3_8270C.m
Meth Date : 26-Nov-2002 15:52 mtl        Quant Type: ISTD
Cal Date  : 12-NOV-2002 20:21            Cal File: S3C0235.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE                       Compound Sublist: 8270C.sub
Target Version:  4.03
Processing Host: TARGET2
```

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.200	Weight of sample extracted (g)
M	0.000	% Moisture

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
$ 5 2-Fluorophenol	112	5.435	5.412	(0.703)	473721	49.9974	1600
$ 8 Phenol-d5	99	7.028	7.004	(0.918)	434478	49.5016	1600
$ 9 2-Chlorophenol-d4	132	7.240	7.250	(0.947)	709154	51.9512	1700
* 12 1,4-Dichlorobenzene-d4	152	7.666	7.661	(1.000)	587144	40.0000	
$ 14 1,2-Dichlorobenzene-d4	152	7.964	7.959	(1.039)	337815	34.6035	1300
$ 23 Nitrobenzene-d5	82	8.697	8.697	(0.863)	478802	33.3734	1100
* 31 Naphthalene-d8	136	10.086	10.086	(1.000)	1961099	40.0000	
$ 43 2-Fluorobiphenyl	172	12.271	12.271	(0.801)	980746	36.0358	1200
* 44 Acenaphthene-d10	164	13.617	13.618	(1.000)	754985	40.0000	
$ 60 2,4,6-Tribromophenol	330	15.351	15.326	(0.915)	188750	51.2958	1700
* 64 Phenanthrene-d10	188	16.648	16.647	(1.000)	1175455	40.0000	
$ 72 Terphenyl-d14	244	19.963	19.948	(0.906)	1042013	40.3340	1300
* 76 Chrysene-d12	240	22.058	22.055	(1.000)	1310637	40.0000	

Data File: S3C0338.D
Report Date: 27-Nov-2002 11:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
* 88 Perylene-d12	264	24.809	24.799	(1.000)	904884	40.0000	

11/27/02

Data File: S3C0338.D
Report Date: 27-Nov-2002 11:49

Mitkem Corporation

```
Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021118.B\S3C0338.D
Lab Smp Id: A1627-02C                    Client Smp ID: 12TB1524
Inj Date  : 18-NOV-2002 20:21
Operator  : GL                           Inst ID: s3.i
Smp Info  : A1627-02C,12TB1524,MB-4285,GL,,A1627
Misc Info : 0,,,2,,,,30.2,,,12-NOV-02,08-NOV-02
Comment   :
Method    : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021118.B\S3_8270C.m
Meth Date : 26-Nov-2002 15:52 mtl        Quant Type: ISTD
Cal Date  : 12-NOV-2002 20:21            Cal File: S3C0235.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE                       Compound Sublist: 8270C.sub
Target Version:  4.03
Processing Host: TARGET2
```

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.200	Weight of sample extracted (g)
M	0.000	% Moisture

ISTD	RT	AREA	AMOUNT
* 12 1,4-Dichlorobenzene-d4	7.666	2261322	40.000
* 31 Naphthalene-d8	10.086	2931010	40.000
* 64 Phenanthrene-d10	16.646	3159899	40.000
* 76 Chrysene-d12	22.058	3527591	40.000

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #

Data File: S3C0338.D
Report Date: 27-Nov-2002 11:49

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
7.185	1833333	33.2903485	1100	0		0	12
Unknown				CAS #:			
7.996	472748	6.34333368	380	0		0	12
Unknown				CAS #:			
10.092	350645	4.30077378	140	0		0	31
Sulfur, mol. (S8)				CAS #: 10544-50-0			
19.333	517657	5.61886868	320	95	NBS75K.L	71634	64
Unknown				CAS #:			
22.743	744754	8.44490193	280	0		0	76

Data File: \\WOGADRO\USERDATA\Organic\avoa\S3.i\021118.B\S3C0338.D

Date : 18-NOV-2002 20:21

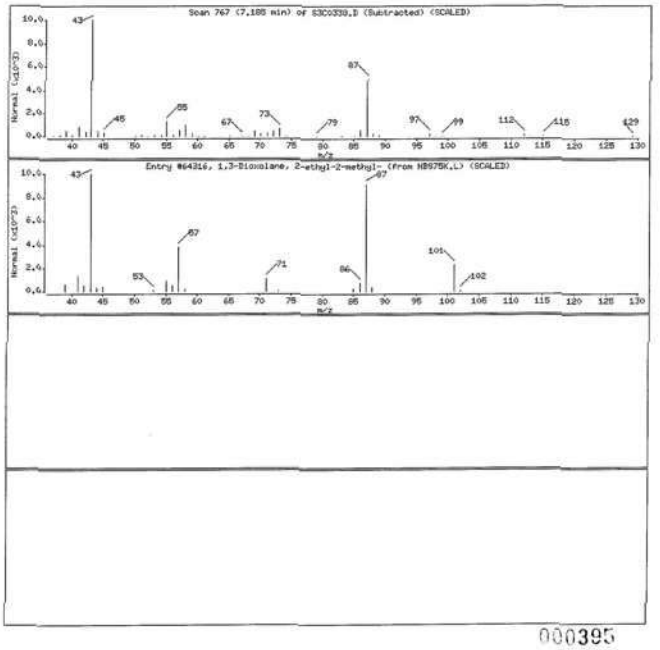
Client ID: 12TB1524 Instrument: s3.i

Sample Info: A1627-02C,12TB1524,MB-4286,GL,,A1627

Volume Injected (uL): 1.0 Operator: GL

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,3-Dioxolane, 2-ethyl-2-methyl-	126-39-6	NBS75K.L	64316	36	C6H12O2	116



Data File: \\WOGADRO\USERDATA\Organic\avoa\S3.i\021118.B\S3C0338.D

Date : 18-NOV-2002 20:21

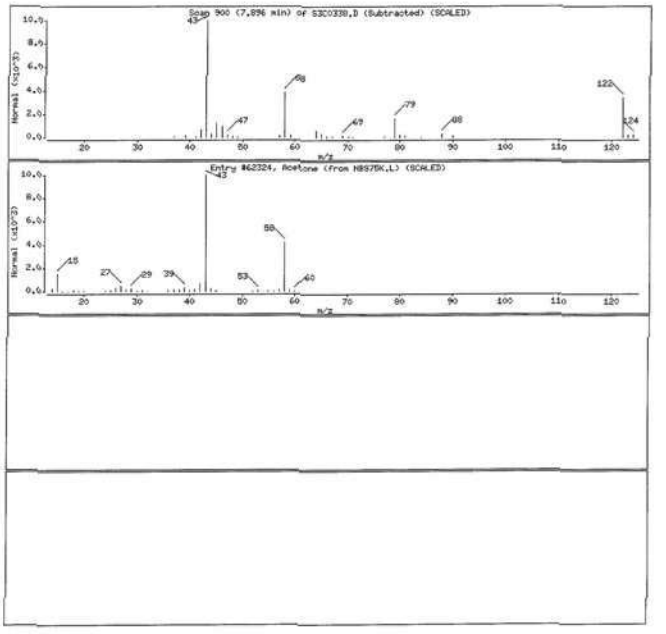
Client ID: 12TB1524 Instrument: s3.i

Sample Info: A1627-02C,12TB1524,MB-4286,GL,,A1627

Volume Injected (uL): 1.0 Operator: GL

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Acetone	67-64-1	NBS75K.L	62324	25	C3H6O	58



Data File: \\WOGADRO\USERDATA\Organic\avoa\S3.i\021118.B\S3C0338.D

Date : 18-NOV-2002 20:21

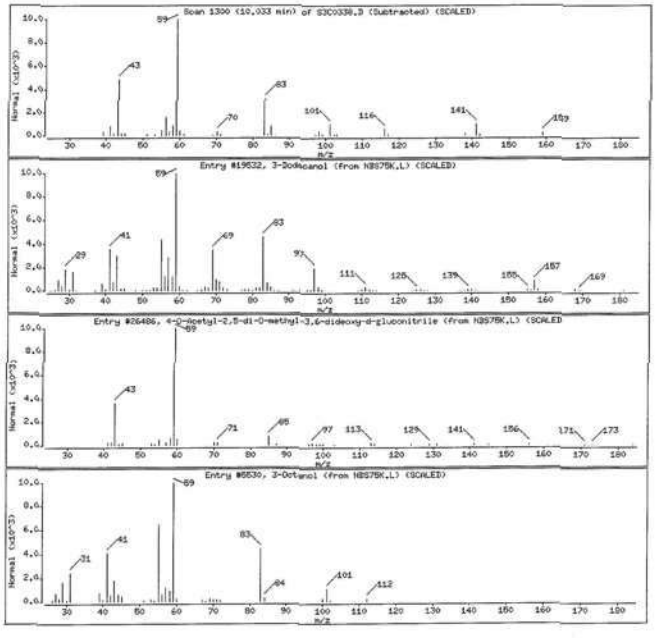
Client ID: 12TB1524 Instrument: s3.i

Sample Info: A1627-02C,12TB1524,MB-4286,GL,,A1627

Volume Injected (uL): 1.0 Operator: GL

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
3-Dodecanol	10203-30-2	NBS75K.L	19532	38	C12H26O	186
4-O-Acetyl-2,5-di-O-methyl-3,6-dideoxy-d	0-00-0	NBS75K.L	26486	38	C10H17N04	215
3-Octanol	20296-29-1	NBS75K.L	8630	38	C8H18O	130



Data File: \\WOGADRO\USERDATA\Organic\avoa\S3.i\021118.B\S3C0338.D

Date : 18-NOV-2002 20:21

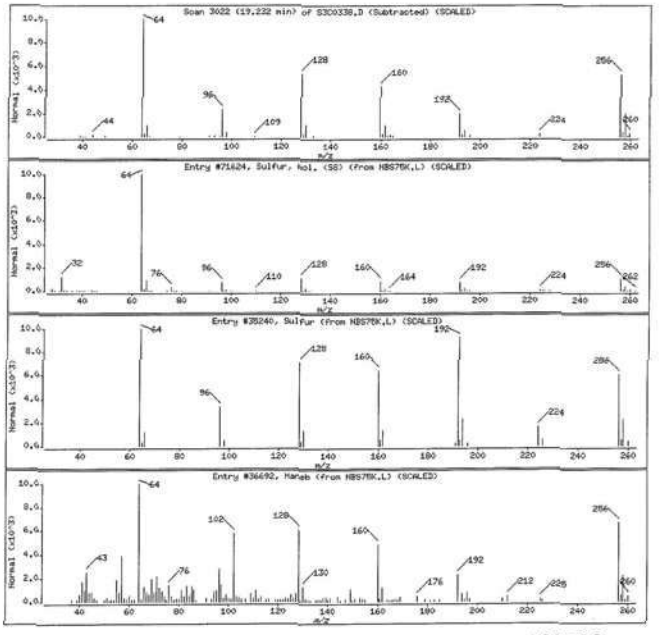
Client ID: 12TB1524 Instrument: s3.i

Sample Info: A1627-02C,12TB1524,MB-4286,GL,,A1627

Volume Injected (uL): 1.0 Operator: GL

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Sulfur, mol. (S8)	10544-50-0	NBS75K.L	71624	95	S8	256
Sulfur	7704-34-9	NBS75K.L	35240	91	S8	256
Maneb	12427-38-2	NBS75K.L	36492	91	C4H6MnN2S4	265



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3,i\021118,B\S3C0338.D

Date : 18-NOV-2002 20:21

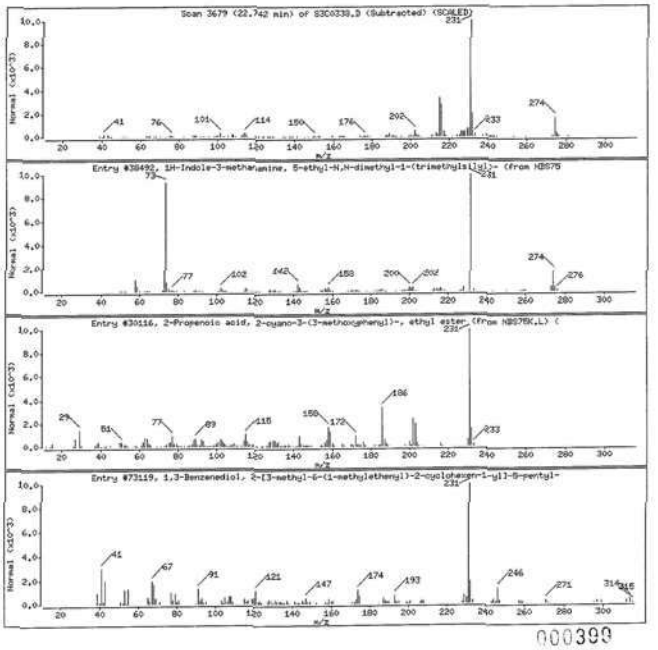
Client ID: 12TB1524 Instrument: s3.i

Sample Info: A1627-02C,12TB1524,HB-4208,GL,,A1627

Volume Injected (uL): 1.0 Operator: GL

Column phase: SB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1H-Indole-3-methanamine, 5-ethyl-N,N-dim	74367-82-6	NIST70K.L	38492	42	C16H26N2Si	274
2-Propenoic acid, 2-cyano-3-(3-methoxyph	0-00-0	NIST5K.L	30116	40	C13H13NO3	231
1,3-Benzenediol, 2-[3-methyl-6-(1-methyl	13956-29-1	NIST5K.L	73119	33	C21H30O2	314



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13SSTB2413

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-30C

Sample wt/vol: 30.8 (g/mL) G Lab File ID: S3C0341

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: 15 decanted: (Y/N) N Date Extracted: 11/12/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/02

Injection Volume: 1.0(uL) *Dilution Factor: 1.0*

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)Ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-Methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	770	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	770	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	770	U
83-32-9	Acenaphthene	380	U

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13SSTB2413

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-30C

Sample wt/vol: 30.8 (g/mL) G Lab File ID: S3C0341

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: 15 decanted: (Y/N) N Date Extracted: 11/12/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	770	U
100-02-7	4-Nitrophenol	770	U
132-64-9	Dibenzofuran	380	U
121-14-2	*2,4-Dinitrotoluene*	*380*	*U*
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	770	U
534-52-1	4,6-Dinitro-2-methylphenol	770	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	770	U
85-01-8	Phenanthrene	380	U
120-12-7	Anthracene	380	U
86-74-8	Carbazole	380	U
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	380	U
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	380	U
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	380	U
207-08-9	Benzo(k)fluoranthene	380	U
50-32-8	Benzo(a)pyrene	380	U
193-39-5	Indeno(1,2,3-cd)pyrene	380	U
53-70-3	Dibenzo(a,h)anthracene	380	U
191-24-2	Benzo(g,h,i)perylene	380	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
13SSTB2413

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-30C

Sample wt/vol: 30.8 (g/mL) G Lab File ID: S3C0341

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: 15 decanted: (Y/N) N Date Extracted: 11/12/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/02

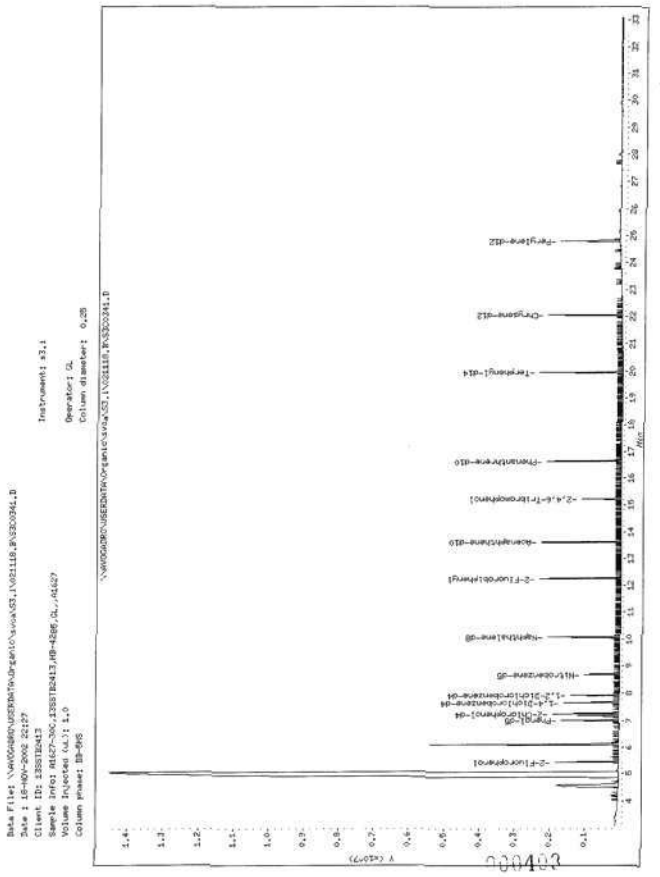
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.18	1100	J
2.		UNKNOWN	10.03	160	J
3.		UNKNOWN	23.77	170	J
4.		UNKNOWN	27.70	240	J
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC OLM03.0



000403

Data File: S3C0341.D
Report Date: 27-Nov-2002 11:50

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021118.B\S3C0341.D
Lab Smp Id: A1627-30C Client Smp ID: 13SSTB2413
Inj Date : 18-NOV-2002 22:27
Operator : GL Inst ID: s3.i
Smp Info : A1627-30C,13SSTB2413,MB-4285,GL,,A1627
Misc Info : 0,,,2,,,,30.8,,,12-NOV-02,08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021118.B\S3_8270C.m
Meth Date : 26-Nov-2002 15:52 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.800	Weight of sample extracted (g)
M	15.000	% Moisture

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
$	1 2-Fluorophenol	112	5.435	5.412	(0.709)	768596	54.5741	2100
$	5 Phenol-d5	99	7.014	7.004	(0.916)	944341	53.6872	2000
$	8 2-Chlorophenol-d4	132	7.257	7.250	(0.947)	813421	56.5919	2200
*	12 1,4-Dichlorobenzene-d4	152	7.663	7.661	(1.000)	404651	40.0000	
$	14 1,2-Dichlorobenzene-d4	152	7.941	7.939	(1.036)	343151	38.4417	1500
$	22 Nitrobenzene-d5	82	8.694	8.697	(0.862)	547932	39.1740	1400
*	31 Naphthalene-d8	136	10.085	10.086	(1.000)	1398922	40.0000	
$	41 2-Fluorobiphenyl	172	12.373	12.371	(0.901)	1110228	40.9499	1400
*	48 Acenaphthene-d10	164	13.619	13.618	(1.000)	777080	40.0000	
$	60 2,4,6-Tribromophenol	330	15.327	15.328	(0.919)	218222	57.5649	2200
*	64 Phenanthrene-d10	188	16.648	16.647	(1.000)	1112693	40.0000	
$	72 Terphenyl-d14	244	19.956	19.948	(0.905)	1250117	47.3404	1800
*	76 Chrysene-d12	240	22.095	22.093	(1.000)	1234389	40.0000	

000404

Data File: S3C0341.D
Report Date: 27-Nov-2002 11:50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
* 83 Perylene-d12	264	24.806	24.799	(1.000)	926861	40.0000	

11/27/02

000405

Data File: S3C0341.D
Report Date: 27-Nov-2002 11:50

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021118.B\S3C0341.D
Lab Smp Id: A1627-30C Client Smp ID: 13SSTB2413
Inj Date : 18-NOV-2002 22:27
Operator : GL Inst ID: s3.i
Smp Info : A1627-30C,13SSTB2413,MB-4285,GL,,A1627
Misc Info : 0,,,2,,,,30.8,,,12-NOV-02,08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021118.B\S3_8270C.m
Meth Date : 26-Nov-2002 15:52 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.800	Weight of sample extracted (g)
M	15.000	% Moisture

ISTD	RT	AREA	AMOUNT
* 12 1,4-Dichlorobenzene-d4	7.663	2360132	40.000
* 31 Naphthalene-d8	10.083	3000838	40.000
* 83 Perylene-d12	24.806	3227346	40.000

	RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CMPD #
Unknown	7.182	1764273	29.9013598	1100	CAS #: 0		0	12

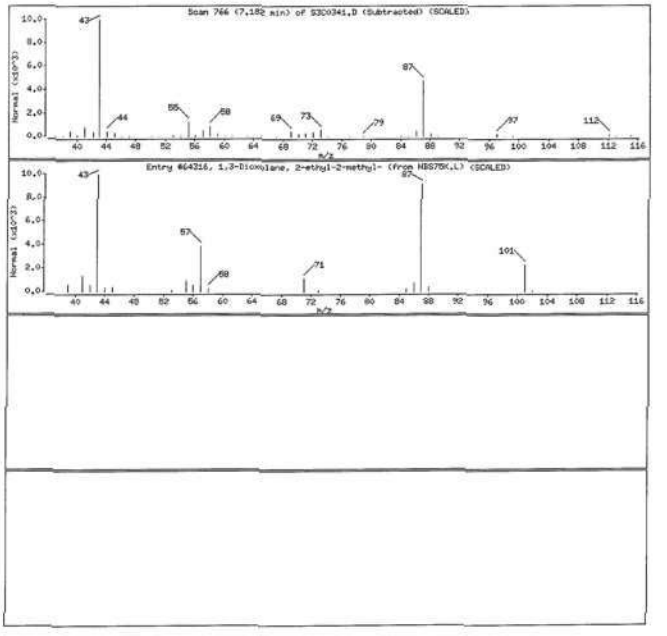
000406

Data File: S3C0341.D
Report Date: 27-Nov-2002 11:50

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	LIBRARY	QUANT LIB ENTRY	CMND #
Unknown			CAS #:				
10.035	320751	4.27548571	166	0		0	31
Unknown			CAS #:				
23.775	357841	4.43535938	170	0		0	83
Unknown			CAS #:				
27.836	505534	6.26583126	240	0		0	83

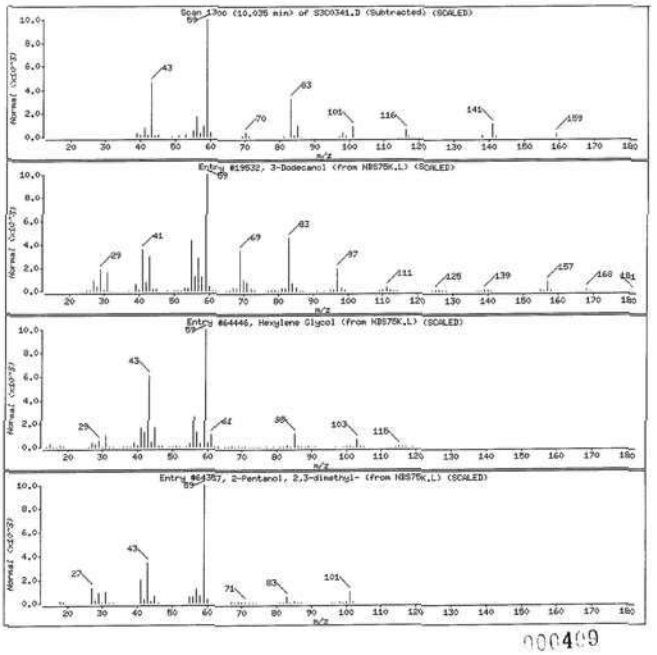
Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3,i\021118,B\S3C0341.D
Date : 18-NOV-2002 22:27
Client ID: 13SSTB2413 Instrument: s3.i
Sample Info: A1627-30C,13SSTB2413,MB-4286,GL,,A1627
Volume Injected (uL): 1.0 Operator: GL
Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,3-Dioxolane, 2-ethyl-2-methyl-	126-39-6	NBS75K.L	64316	38	C6H12O2	116



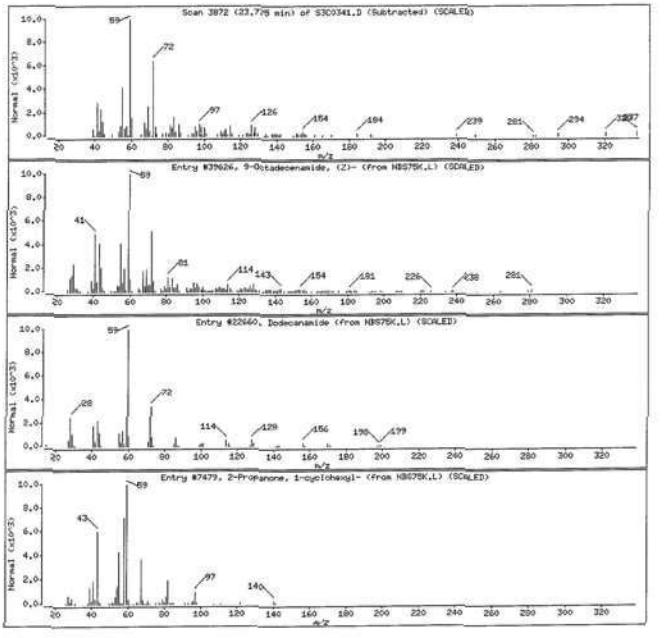
Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3,i\021118,B\S3C0341.D
Date : 18-NOV-2002 22:27
Client ID: 13SSTB2413 Instrument: s3.i
Sample Info: A1627-30C,13SSTB2413,MB-4286,GL,,A1627
Volume Injected (uL): 1.0 Operator: GL
Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
3-Dodecanol	10203-30-2	NBS75K.L	19532	38	C12H26O	186
Hexylene Glycol	107-41-5	NBS75K.L	64446	33	C6H14O2	118
2-Pentanol, 2,3-dimethyl-	4911-70-0	NBS75K.L	64357	33	C7H16O	116



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3,i\021118,B\S3C0341.D
Date : 18-NOV-2002 22:27
Client ID: 13SSTB2413 Instrument: s3.i
Sample Info: A1627-30C,13SSTB2413,MB-4286,GL,,A1627
Volume Injected (uL): 1.0 Operator: GL
Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
9-Octadecenamide, (Z)-	301-02-0	NBS75K.L	39626	80	C18H35NO	281
Dodecanamide	1120-16-7	NBS75K.L	22660	42	C12H25NO	199
2-Propanone, 1-cyclohexyl-	103-78-6	NBS75K.L	7479	37	C9H16O	140



Data File: \\NVDGASRD\USERDATA\Organic\svoa\S3.i\021118.B\S3C0341.D

Date : 18-NOV-2002 22:27

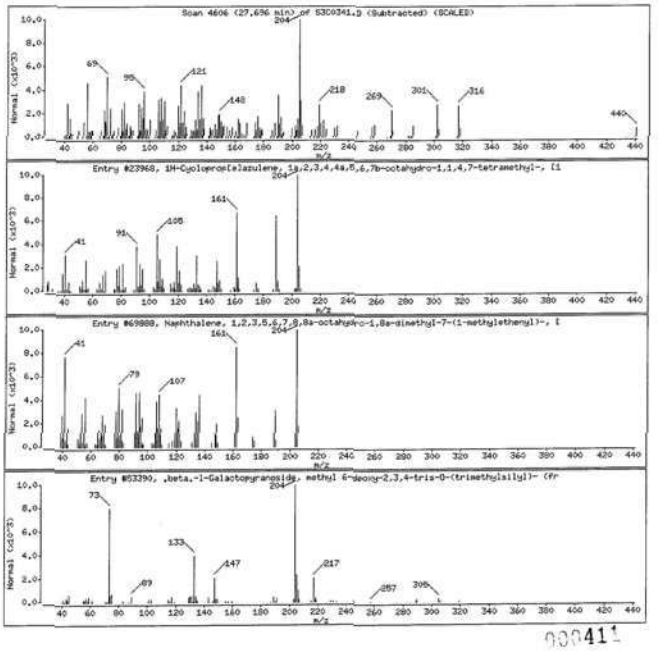
Client ID: 13SSTB2413 Instrument: s3.i

Sample Info: A1627-30C,13SSTB2413,MB-4285,GL,,A1627

Volume Injected (uL): 1.0 Operator: GL

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1H-Cyclopropa[e]azulene, 1a,2,3,4,4a,5,6,	489-40-7	NBS75K.L	23968	41	C15H24	204
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NBS75K.L	69888	32	C15H24	204
.beta.-l-Galactopyranoside, methyl 6-deo	56271-69-1	NBS75K.L	53390	27	C16H30O5Si3	394



000411

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 13SSTB3124

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-31C

Sample wt/vol: 30.6 (g/mL) G Lab File ID: S3C0353

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: 6 decanted: (Y/N) N Date Extracted: 11/12/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/19/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)Ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	2,2'-oxybis(1-Chloropropane)	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-Methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
99-09-2	3-Nitroaniline	700	U
83-32-9	Acenaphthene	340	U

FORM I SV-1 OLM03.0

000412

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: 13SSTB3124

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-31C

Sample wt/vol: 30.6 (g/mL) G Lab File ID: S3C0353

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: 6 decanted: (Y/N) N Date Extracted: 11/12/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/19/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	700	U
100-02-7	4-Nitrophenol	700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroanilline	700	U
534-52-1	4,6-Dinitro-2-methylphenol	700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
86-74-8	Carbazole	340	U
84-74-2	Di-n-butylphthalate	58	J
206-44-0	Fluoranthene	42	J
129-00-0	Pyrene	42	J
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	340	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	36	J
117-81-7	bis(2-Ethylhexyl)phthalate	47	J
117-84-0	Di-n-octylphthalate	340	U
205-99-2	Benzo(b)fluoranthene	43	J
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

000413

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: 13SSTB3124

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-31C

Sample wt/vol: 30.6 (g/mL) G Lab File ID: S3C0353

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: 6 decanted: (Y/N) N Date Extracted: 11/12/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/19/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

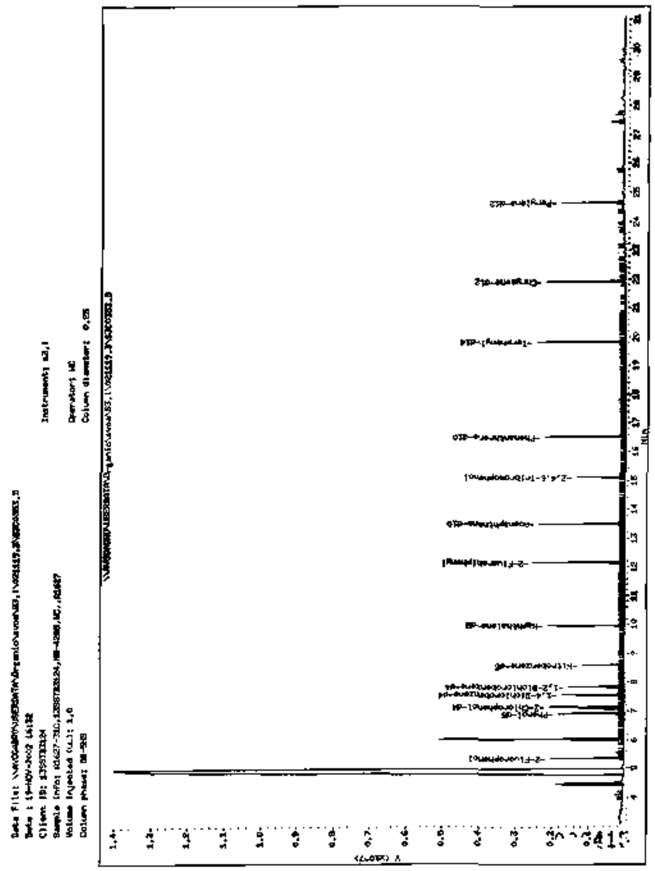
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.08	940	J
2.	UNKNOWN	9.93	140	J
3. 14021-23-9	D-FRIEDOOLEAN-14-ENE, 3-METH	27.43	450	NJ
4.	UNKNOWN	27.72	240	J
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM03.0

000414



Data File: S3C0353.D
Report Date: 26-Nov-2002 12:11

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021119.B\S3C0353.D
Lab Smp Id: A1627-31C Client Smp ID: 13SSTB3124
Inj Date : 19-NOV-2002 16:32
Operator : WC Inst ID: s3.i
Smp Info : A1627-31C,13SSTB3124,MB-4285,WC,,A1627
Misc Info : 0,,,2,,,,30.6,,,12-NOV-02,08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021119.B\S3_8270C.m
Meth Date : 20-Nov-2002 08:11 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D✓
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	✓Volume injected (uL)
Ws	30.600✓	Weight of sample extracted (g)
M	6.000✓	% Moisture

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
$ 1 2-Fluorophenol	112	5.333	5.316	(0.705)	812998	46.9119	2000
$ 5 Phenol-d5	99	6.914	6.914	(0.915)	1016399	54.9905	2000
$ 9 2-Chlorophenol-d4	132	7.149	7.148	(0.946)	865236	49.9204	2100
* 12 1,4-Dichlorobenzene-d4	152	7.560	7.560	(1.000)	410667	40.0000	(Q)
$ 16 1,2-Dichlorobenzene-d4	152	7.899	7.939	(1.056)	365067	40.3174	1400
$ 22 Nitrobenzene-d5	82	8.596	8.586	(0.861)	591249	39.0948	1400
* 31 Naphthalene-d8	136	9.970	9.969	(1.000)	1456894	40.0000	
$ 41 2-Fluorobiphenyl	172	12.160	12.195	(0.803)	1164740	42.0970	1500
* 46 Acenaphthene-d10	164	13.605	13.586	(1.000)	787576	40.0000	
$ 60 2,4,6-Tribromophenol	330	15.303	15.116	(0.934)	339700	81.5279	2100
* 64 Phenanthrene-d10	188	16.519	16.524	(1.000)	1726590	40.0000	
68 Di-n-butylphthalate	149	17.832	17.833	(1.078)	70692	1.67007	58(a)
69 Fluoranthene	202	18.992	18.997	(1.150)	48578	1.19871	42(a)

Data File: S3C0353.D
Report Date: 26-Nov-2002 12:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COL(ng)	FINAL (ug/Kg)
72 Pyrene	202	19.448	19.457	(0.887)	66656	1.13884	42(a)
$ 73 Terphenyl-d14	244	19.896	19.826	(0.905)	1270349	47.3338	1400
* 74 Chrysene-d12	240	21.914	21.910	(1.000)	1760766	40.0000	
76 bis(2-Ethylhexyl)phthalate	149	22.078	22.080	(1.007)	58697	1.38910	47(a)
77 Chrysene	228	21.965	21.986	(1.002)	54749	1.03594	36(a)
80 Benzo(b)fluoranthene	252	23.939	23.955	(0.971)	47196	1.37407	47(a)
* 83 Perylene-d12	264	24.644	24.640	(1.000)	931640	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: S3C0353.D
Report Date: 26-Nov-2002 12:11

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021119.B\S3C0353.D
Lab Smp Id: A1627-31C Client Smp ID: 13SSTB3124
Inj Date : 19-NOV-2002 16:32
Operator : WC Inst ID: s3.i
Smp Info : A1627-31C,13SSTB3124,MB-4285,WC,,A1627
Misc Info : 0,,,2,,,,30.6,,,12-NOV-02,08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021119.B\S3_8270C.m
Meth Date : 20-Nov-2002 08:11 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.600	Weight of sample extracted (g)
M	6.000	% Moisture

ISTD	RT	AREA	AMOUNT
* 12 1,4-Dichlorobenzene-d4	7.560	2449552	40.000
* 31 Naphthalene-d8	9.969	3152384	40.000
* 63 Perylene-d12	24.644	3324136	40.000

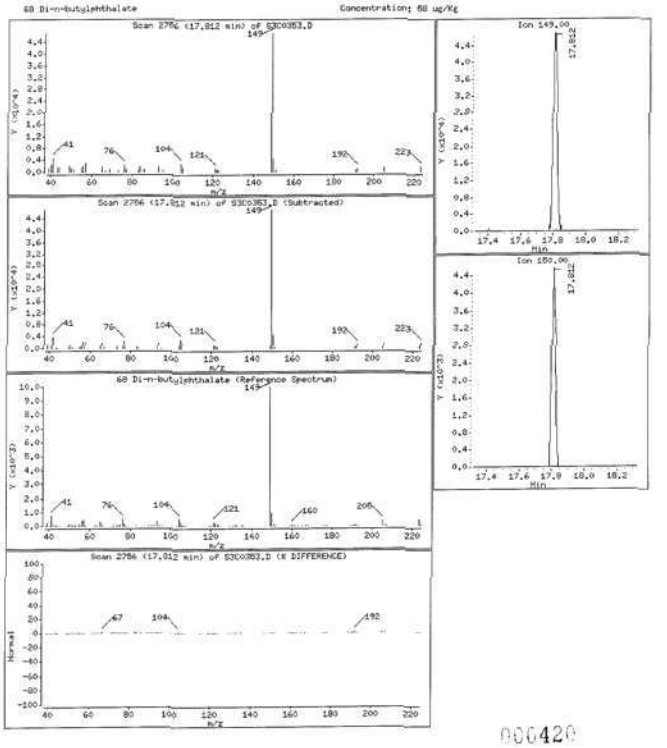
RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	LIBRARY	QUANT LIB ENTRY	CPND #
Unknown				CAS #:			
7.665	1448163	36.9334997	860	0		8	12

Data File: S3C0353.D
Report Date: 26-Nov-2002 12:11

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUANT QUAL	LIBRARY	LIB ENTRY	CMPD #
Unknown			CAS #:				
9.927	321317	4.07713020	140	0		0	91
5-Friedooleam-14-ene, 3-methoxy-, (3.bet			CAS #: 14021-23-9				
27.433	1068092	12.852564#	450	86	NIST5K.L	74454	83
Unknown			CAS #:				
27.721	567914	6.83382389	240	0		0	83

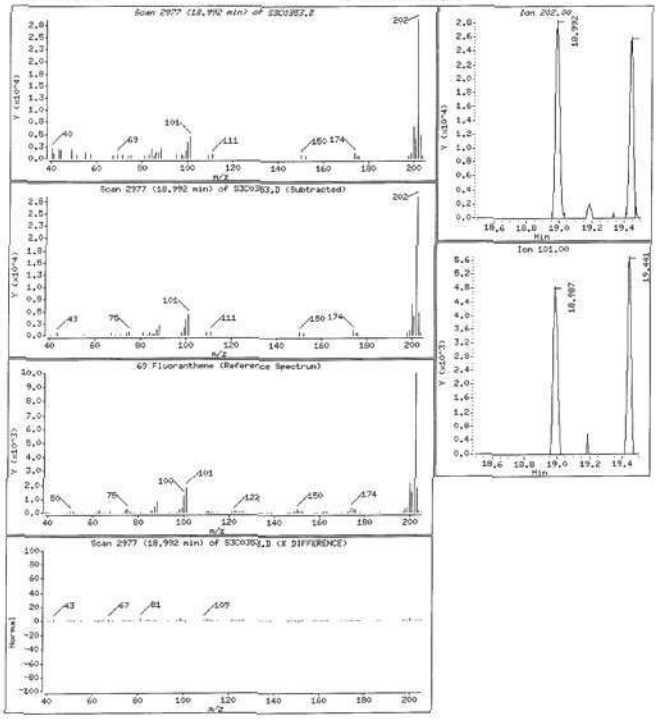
000419

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021119.B\S3C0353.D
Date : 19-NOV-2002 16:32
Client ID: 135ST33124 Instrument: s3.i
Sample Info: A1627-31C.135ST33124,MB-4295,WC,,A1627
Volume Injected (uL): 1.0 Operator: WC
Column phase: DB-5MS Column diameter: 0.25
68 Di-n-butylphthalate Concentration: 58 ug/Kg



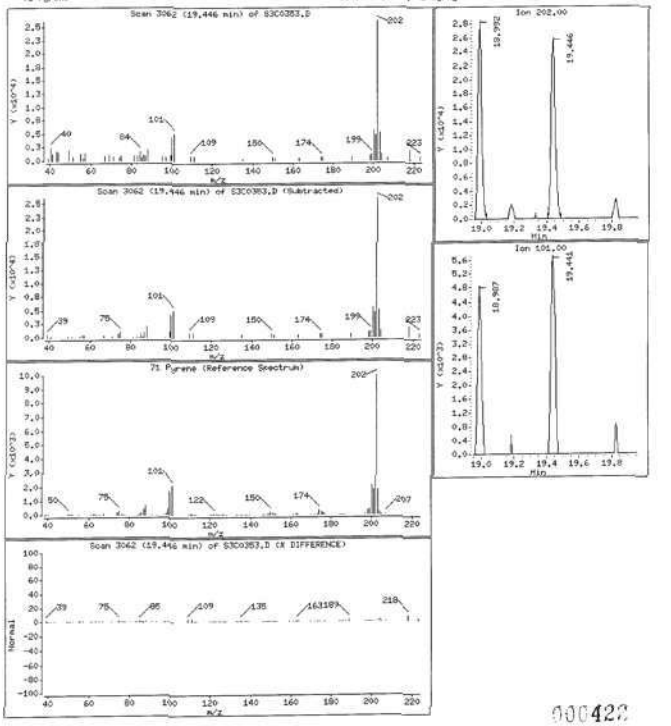
000420

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021119.B\S3C0353.D
Date : 19-NOV-2002 16:32
Client ID: 135ST33124 Instrument: s3.i
Sample Info: A1627-31C.135ST33124,MB-4295,WC,,A1627
Volume Injected (uL): 1.0 Operator: WC
Column phase: DB-5MS Column diameter: 0.25
69 Fluoranthene Concentration: 42 ug/Kg



000421

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021119.B\S3C0353.D
Date : 19-NOV-2002 16:32
Client ID: 135ST33124 Instrument: s3.i
Sample Info: A1627-31C.135ST33124,MB-4295,WC,,A1627
Volume Injected (uL): 1.0 Operator: WC
Column phase: DB-5MS Column diameter: 0.25
71 Pyrene Concentration: 42 ug/Kg



000422

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.I\021119.B\S3C0353.D

Date : 19-NOV-2002 16:32

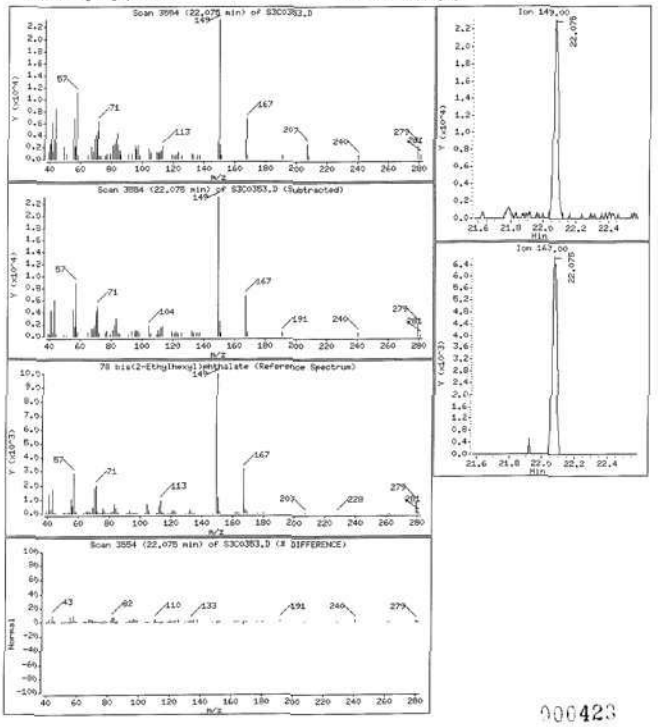
Client ID: 135STB3124 Instrument: s3.i

Sample Info: A1627-31C,135STB3124,MB-4286,WC,,A1627

Volume Injected (uL): 1.0 Operator: WC

Column phase: DB-5MS Column diameter: 0.25

78 bis(2-Ethylhexyl)phthalate Concentration: 47 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.I\021119.B\S3C0353.D

Date : 19-NOV-2002 16:32

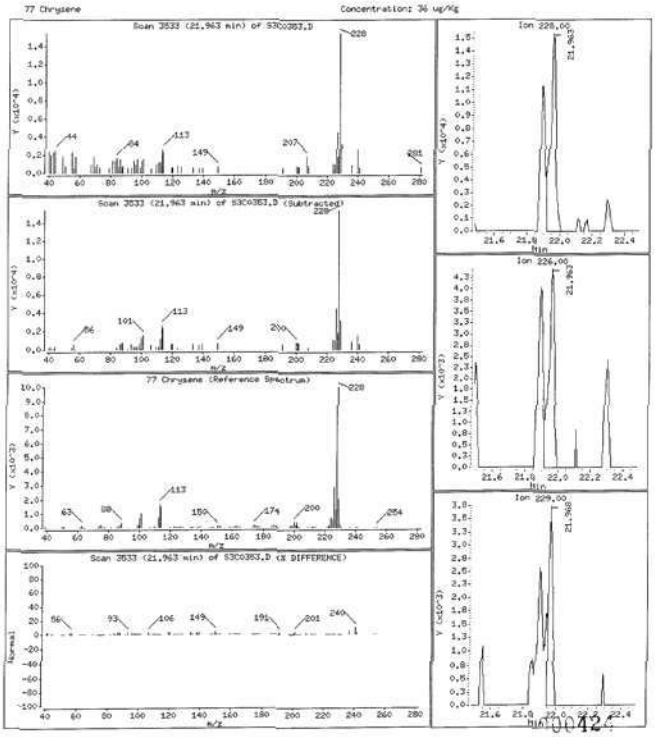
Client ID: 135STB3124 Instrument: s3.i

Sample Info: A1627-31C,135STB3124,MB-4286,WC,,A1627

Volume Injected (uL): 1.0 Operator: WC

Column phase: DB-5MS Column diameter: 0.25

77 Chrysene Concentration: 36 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.I\021119.B\S3C0353.D

Date : 19-NOV-2002 16:32

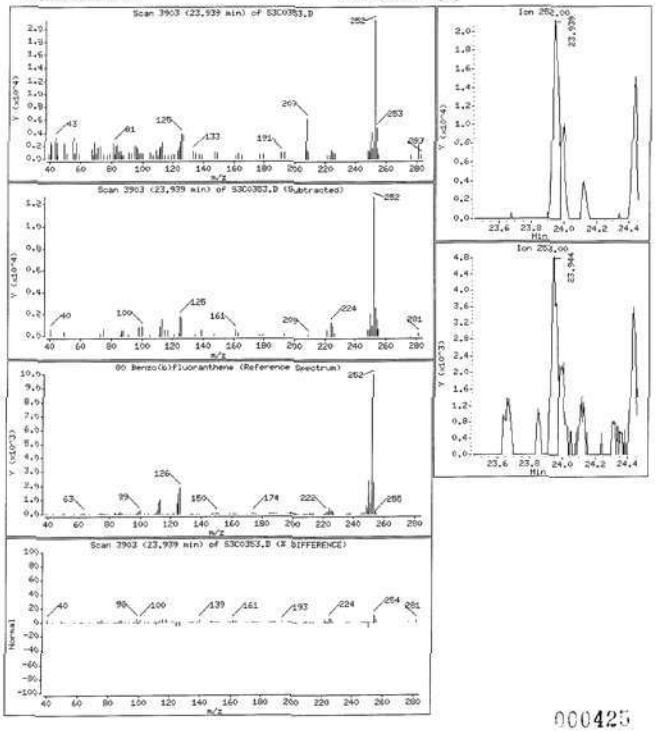
Client ID: 135STB3124 Instrument: s3.i

Sample Info: A1627-31C,135STB3124,MB-4286,WC,,A1627

Volume Injected (uL): 1.0 Operator: WC

Column phase: DB-5MS Column diameter: 0.25

80 Benzo(b)fluoranthene Concentration: 43 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.I\021119.B\S3C0353.D

Date : 19-NOV-2002 16:32

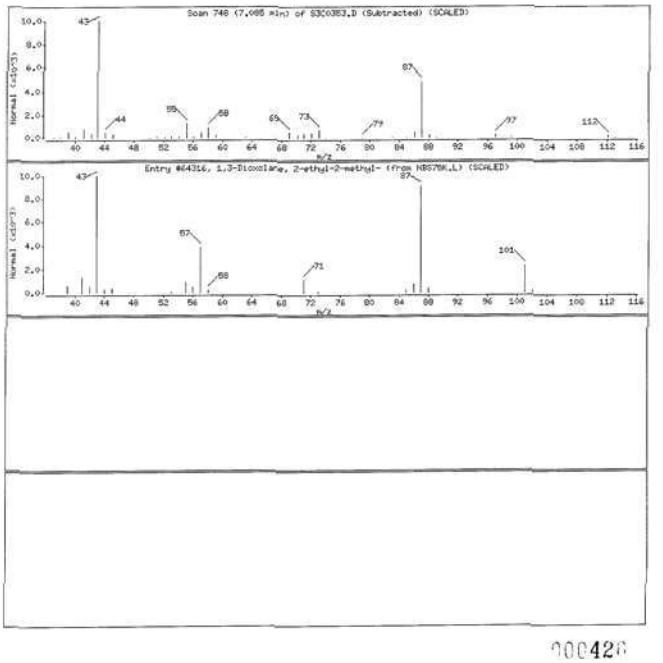
Client ID: 135STB3124 Instrument: s3.i

Sample Info: A1627-31C,135STB3124,MB-4286,WC,,A1627

Volume Injected (uL): 1.0 Operator: WC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,3-Dioxolane, 2-ethyl-2-methyl-	126-39-6	NBS75K.L	64316	38	C6H12O2	116



Data File: \\AVOGADRO\USERDATA\Organic\avoa\S3.i\021119.B\S3C0353.D

Date : 19-NOV-2002 16:32

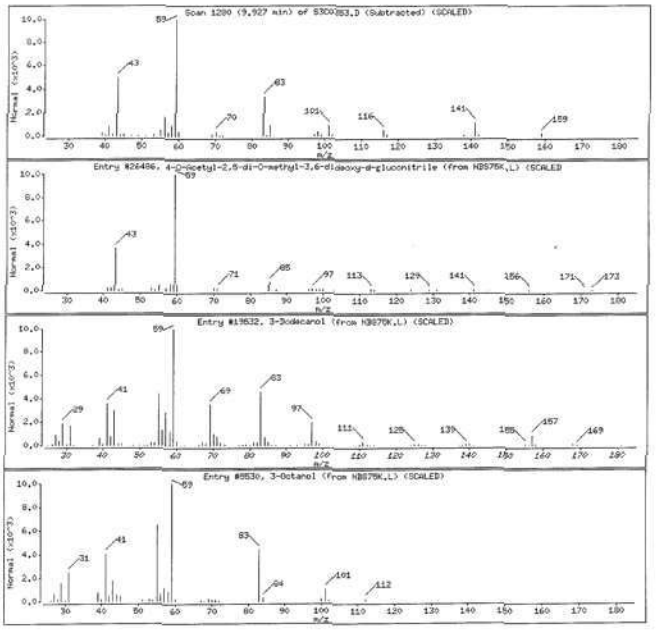
Client ID: 13SSTB3124 Instrument: s3.i

Sample Info: A1627-31C,13SSTB3124,MB-4285,WC,,A1627

Volume Injected (uL): 1.0 Operator: WC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
4-O-Acetyl-2,6-di-O-methyl-3,6-dideoxy-d	0-00-0	NBS75K.L	26486	46	C10H17NO4	215
3-Dodecanol	10203-30-2	NBS75K.L	19532	39	C12H26O	186
3-Octanol	20296-29-1	NBS75K.L	8530	38	C8H18O	130



Data File: \\AVOGADRO\USERDATA\Organic\avoa\S3.i\021119.B\S3C0353.D

Date : 19-NOV-2002 16:32

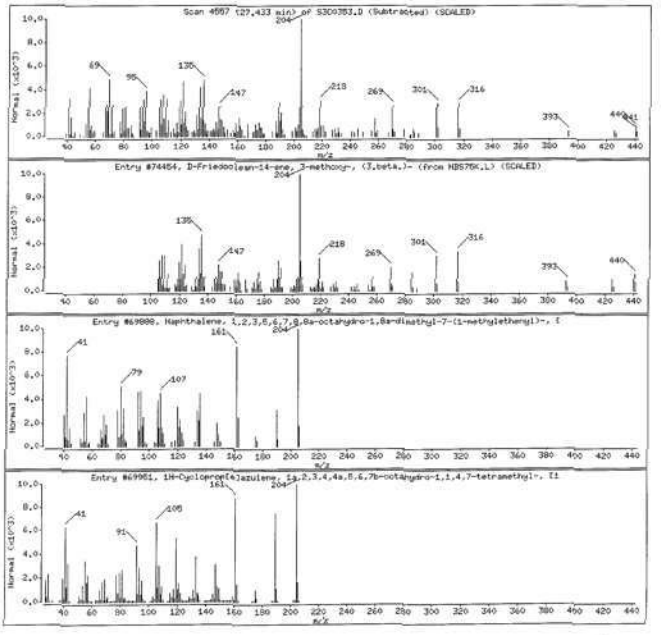
Client ID: 13SSTB3124 Instrument: s3.i

Sample Info: A1627-31C,13SSTB3124,MB-4285,WC,,A1627

Volume Injected (uL): 1.0 Operator: WC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
D-Friedooleen-14-ene, 3-methoxy-, (3.bet	14021-23-9	NBS75K.L	74464	86	C31H52O	440
Naphthalene, 1,2,3,6,7,8,8a-octahydro-	4630-07-3	NBS75K.L	69888	38	C15H24	204
1H-Cycloprop[e]azulene, 1a,2,3,4,4a,5,6,	489-40-7	NBS75K.L	69951	38	C15H24	204



Data File: \\AVOGADRO\USERDATA\Organic\avoa\S3.i\021119.B\S3C0353.D

Date : 19-NOV-2002 16:32

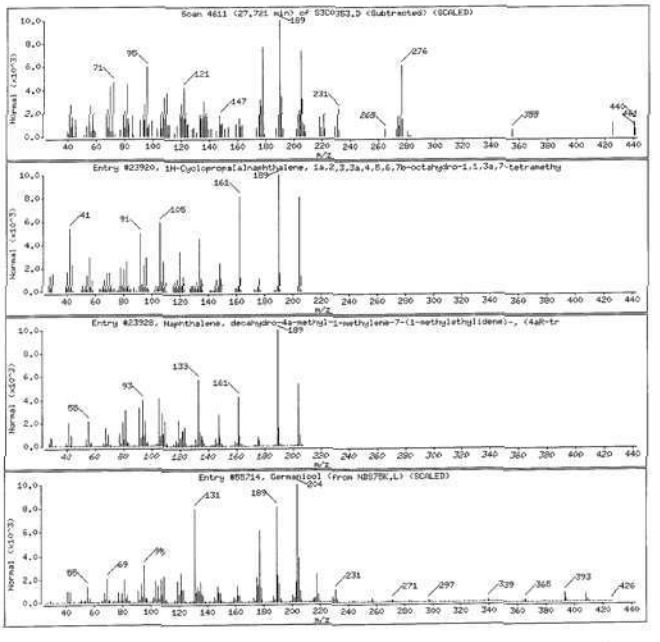
Client ID: 13SSTB3124 Instrument: s3.i

Sample Info: A1627-31C,13SSTB3124,MB-4285,WC,,A1627

Volume Injected (uL): 1.0 Operator: WC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1H-Cycloprop[a]naphthalene, 1a,2,3,3a,4	489-29-2	NBS75K.L	23920	43	C15H24	204
Naphthalene, decahydro-4a-methyl-1-methy	516-17-3	NBS75K.L	23928	43	C15H24	204
Germanicol	465-02-1	NBS75K.L	85714	43	C30H50	426



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

13SSTB3435

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-29C

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3C0340

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: 16 decanted: (Y/N) N Date Extracted: 11/12/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)Ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
106-44-5	4-Methylphenol	180	J
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-Methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	790	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	790	U
131-11-3	Dimethylphthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
99-09-2	3-Nitroaniline	790	U
83-32-9	Acenaphthene	390	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
13SSTB3435

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-29C

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3C0340

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: 16 decanted: (Y/N) N Date Extracted: 11/12/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	790	U
100-02-7	4-Nitrophenol	790	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
86-73-7	Fluorene	390	U
100-01-6	4-Nitroaniline	790	U
534-52-1	4,6-Dinitro-2-methylphenol	790	U
86-30-6	N-Nitrosodiphenylamine (1)	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
87-86-5	Pentachlorophenol	790	U
85-01-8	Phenanthrene	390	U
120-12-7	Anthracene	390	U
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	390	U
129-00-0	Pyrene	390	U
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	390	U
218-01-9	Chrysene	390	U
117-81-7	bis(2-Ethylhexyl)phthalate	390	U
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	390	U
207-08-9	Benzo(k)fluoranthene	390	U
50-32-8	Benzo(a)pyrene	390	U
193-39-5	Indeno(1,2,3-cd)pyrene	390	U
53-70-3	Dibenzo(a,h)anthracene	390	U
191-24-2	Benzo(g,h,i)perylene	390	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
13SSTB3435

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: A1627-29C

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S3C0340

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: 16 decanted: (Y/N) N Date Extracted: 11/12/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

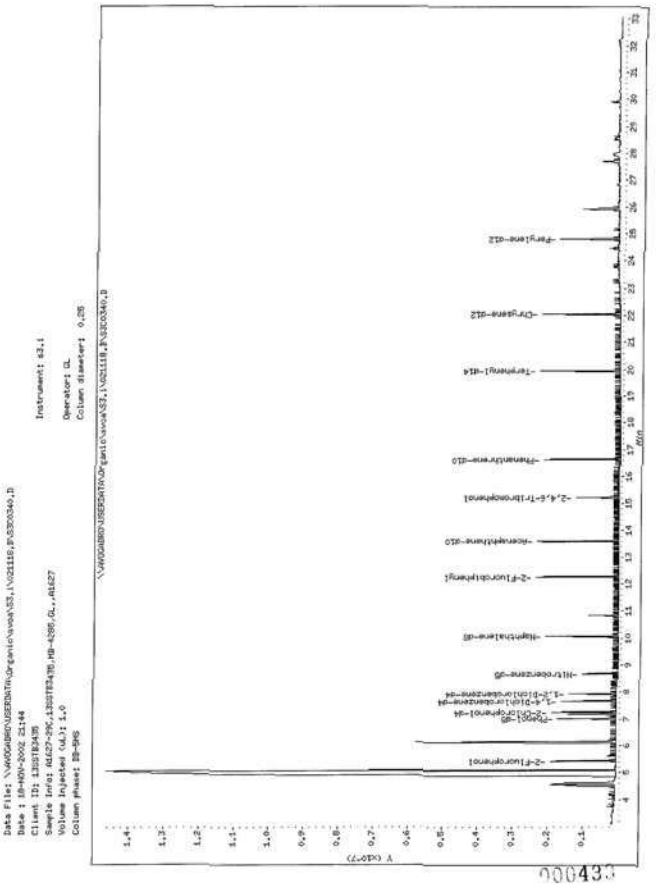
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.19	1400	J
2.	UNKNOWN	10.03	210	J
3. 14021-23-9	D-FRIEDOOLEAN-14-ENE, 3-METH	27.70	700	NJ
4.	UNKNOWN	28.57	270	J
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM03.0



Data File: S3C0340.D
Report Date: 26-Nov-2002 12:11

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021118.B\S3C0340.D
Lab Smp Id: A1627-29C Client Smp ID: 13SSTB3435
Inj Date : 18-NOV-2002 21:44
Operator : GL Inst ID: s3.i
Smp Info : A1627-29C,13SSTB3435,MB-4285,GL,,A1627
Misc Info : 0,,,2,,,,30.3,,,12-NOV-02,08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021118.B\S3_8270C.m
Meth Date : 19-Nov-2002 07:26 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.300	Weight of sample extracted (g)
M	16.000	% Moisture

	Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
$	3 2-Fluorophenol	112	9.439	9.422	(0.709)	776502	55.8814	2200
$	5 Phenol-d5	99	7.021	7.025	(0.916)	954161	54.9774	2200
$	9 2-Chlorophenol-d4	132	7.261	7.260	(0.947)	818187	57.4774	2300
*	13 1,4-Dichlorobenzene-d4	152	7.667	7.671	(1.000)	399264	40.0000	
$	14 1,2-Dichlorobenzene-d4	152	7.940	7.949	(1.036)	338859	38.4731	1500
	20 4-Methylphenol	108	8.431	8.440	(1.100)	64855	4.67380	180(a)
$	22 Nitrobenzene-d5	82	8.698	8.707	(0.863)	548597	36.7209	1400
*	31 Naphthalene-d8	136	10.092	10.096	(1.000)	1410147	40.0000	
$	41 2-Fluorobiphenyl	172	12.273	12.281	(0.901)	1112337	40.1140	1600
*	48 Acenaphthene-d10	164	13.618	13.627	(1.000)	796669	40.0000	
$	60 2,4,6-Tribromophenol	330	15.226	15.241	(0.915)	243954	49.7570	2500
*	64 Phenanthrene-d10	188	16.647	16.656	(1.000)	1235347	40.0000	
$	72 Terphenyl-d14	244	19.954	19.958	(0.905)	1234044	45.3335	1800

Data File: S3C0340.D
Report Date: 26-Nov-2002 12:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
* 76 Chrysene-d12	240	22.054	22.079	(1.000)	[illegible]	40.0000	
* 83 Perylene-d12	264	24.810	24.835	(1.000)	[illegible]	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

Data File: S3C0340.D
Report Date: 26-Nov-2002 12:11

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021118.B\S3C0340.D
Lab Smp Id: A1627-29C   Client Smp ID: 13SSTB3435
Inj Date : 18-NOV-2002 21:44
Operator : GL   Inst ID: S3.i
Smp Info : A1627-29C,13SSTB3435,MB-4285,GL,,A1627
Misc Info : 0,,,2,,,,30.3,,,12-NOV-02,08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021118.B\S3_8270C.m
Meth Date : 19-Nov-2002 07:26 mtl   Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21   Cal File: S3C0235.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.300	Weight of sample extracted (g)
M	16.000	% Moisture

ISTD	RT	AREA	AMOUNT
* 12 1,4-Dichlorobenzene-d4	7.667	2329366	40.000
* 31 Naphthalene-d8	10.082	3003532	40.000
* 76 Chrysene-d12	22.054	3625751	40.000
* 83 Perylene-d12	24.810	3355011	40.000

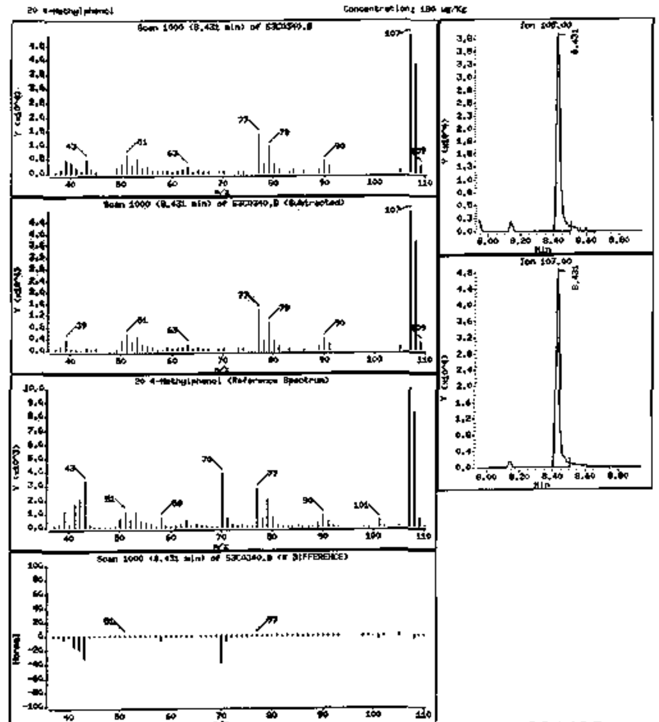
RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	LIBRARY	QUANT LIB ENTRY	CPND #

Data File: S3C0340.D
Report Date: 26-Nov-2002 12:11

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	LIBRARY	QUANT LIB ENTRY	CPND #
Unknown				CAS #:			
7.296	2059555	55.3667808	3400	0		0	12
Unknown				CAS #:			
10.084	474196	6.18569278	210	0		0	31
Branched Alkane				CAS #:			
21.443	187497	4.18406376	170	0		0	76
Straight-chained Alkane				CAS #:			
24.457	461157	5.25947973	210	0		0	83
Straight-chained Alkane				CAS #:			
25.831	2510728	31.1264074	1265	0		0	83
D-Friedoolean-14-ene, 3-methoxy-, (3.bet				CAS #: 16031-21-7			
27.700	1506431	17.3602511	700	93	NBS75K.L	74454	83
Unknown				CAS #:			
29.544	593765	6.98015602	270	0		0	83

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021118.B\S3C0340.D
Date : 18-NOV-2002 21:44
Client ID: 13SSTB3435   Instrument: S3.i
Sample Info: A1627-29C,13SSTB3435,MB-4285,GL,,A1627
Volume Injected (uL): 1.0   Operator: GL
Column phase: DB-5MS   Column diameter: 0.25

20 4-Methylphenol   Concentration: 186 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021118.B\S3C0340.D

Date : 18-NOV-2002 21:44

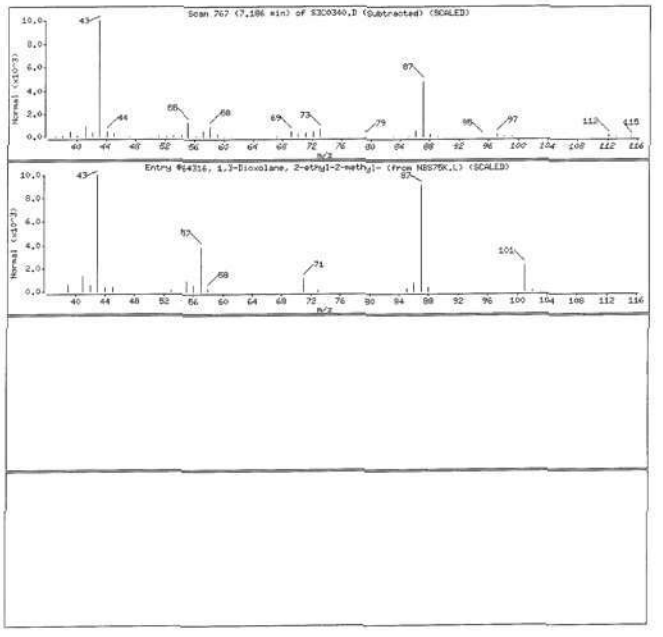
Client ID: 13SSTB3435 Instrument: s3.i

Sample Info: A1627-29C,13SSTB3435,MB-4286,GL,,A1627

Volume Injected (uL): 1.0 Operator: GL

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,3-Dioxolane, 2-ethyl-2-methyl-	126-39-6	NBS75K.L	64316	38	C6H12O2	116



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021118.B\S3C0340.D

Date : 18-NOV-2002 21:44

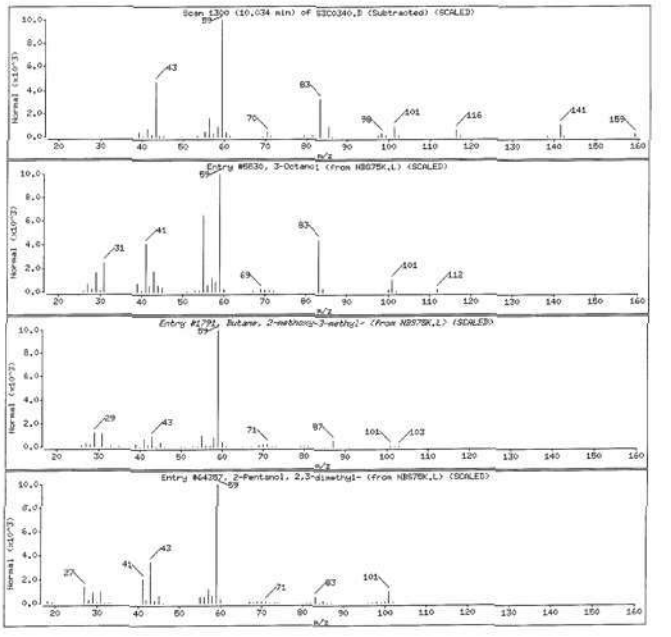
Client ID: 13SSTB3435 Instrument: s3.i

Sample Info: A1627-29C,13SSTB3435,MB-4286,GL,,A1627

Volume Injected (uL): 1.0 Operator: GL

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
3-Octanol	20296-29-1	NBS75K.L	8830	38	C8H18O	130
Butane, 2-methoxy-3-methyl-	62016-49-3	NBS75K.L	1791	37	C6H14O	102
2-Pentanol, 2,3-dimethyl-	4911-70-0	NBS75K.L	64357	36	C7H16O	116



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021118.B\S3C0340.D

Date : 18-NOV-2002 21:44

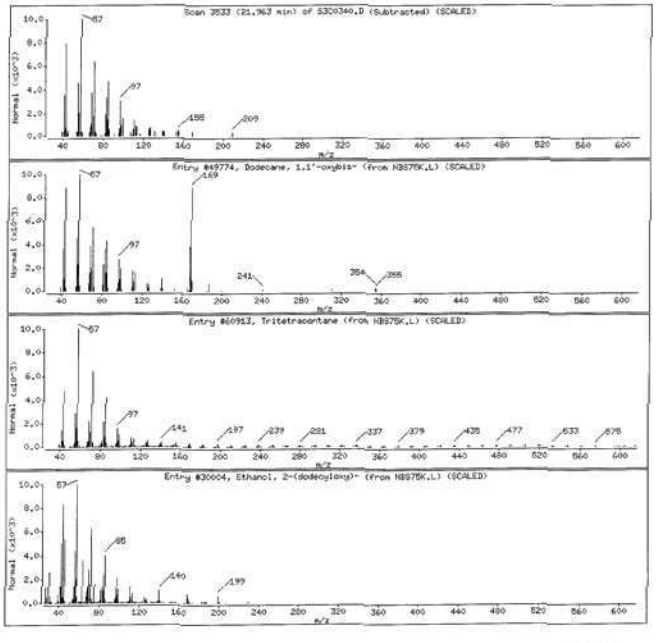
Client ID: 13SSTB3435 Instrument: s3.i

Sample Info: A1627-29C,13SSTB3435,MB-4286,GL,,A1627

Volume Injected (uL): 1.0 Operator: GL

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
Dodecane, 1,1'-oxybis-	4542-57-6	NBS75K.L	49774	91	C24H50O	354
Tritetracontane	7098-21-7	NBS75K.L	60913	90	C43H88	606
Ethanol, 2-(dodecyloxy)-	4536-30-6	NBS75K.L	30004	90	C14H30O2	230



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021118.B\S3C0340.D

Date : 18-NOV-2002 21:44

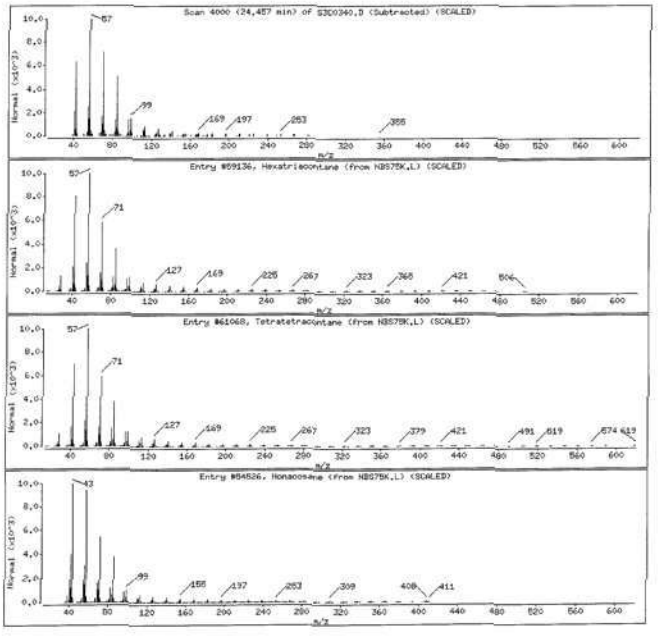
Client ID: 13SSTB3435 Instrument: s3.i

Sample Info: A1627-29C,13SSTB3435,MB-4286,GL,,A1627

Volume Injected (uL): 1.0 Operator: GL

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chained Alkane						
Hexatriacontane	630-06-8	NBS75K.L	59136	90	C36H74	507
Tetratetracontane	7098-22-8	NBS75K.L	61068	90	C44H90	619
Nonacosane	630-03-5	NBS75K.L	54826	87	C29H60	408



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.1\021118.B\S3C0340.D

Date : 18-NOV-2002 21:44

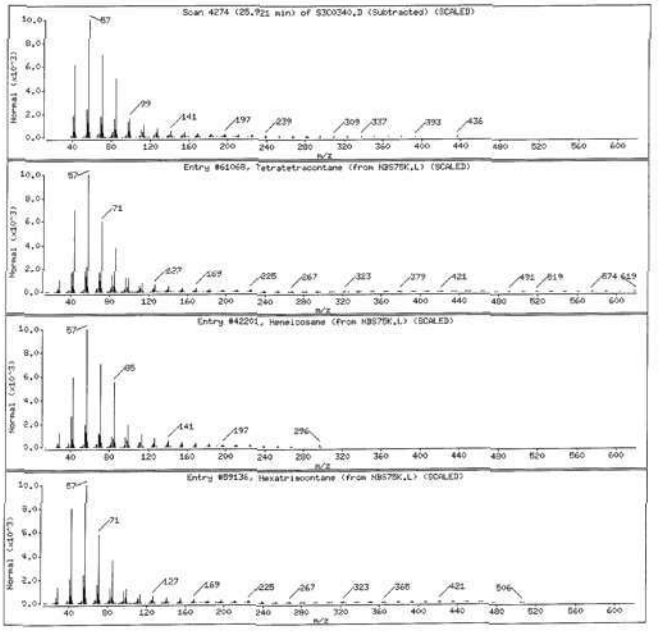
Client ID: 135STB3435 Instrument: s3.i

Sample Info: A1627-29C,135STB3435,MB-4286,GL,,A1627

Volume Injected (uL): 1.0 Operator: GL

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chained Alkane						
Tetratetracontane	7098-22-8	NBS75K.L	61068	95	C44H90	619
Henelcosane	629-94-7	NBS75K.L	42201	91	C21H44	296
Hexatriacontane	630-06-8	NBS75K.L	69136	91	C36H74	507



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.1\021118.B\S3C0340.D

Date : 18-NOV-2002 21:44

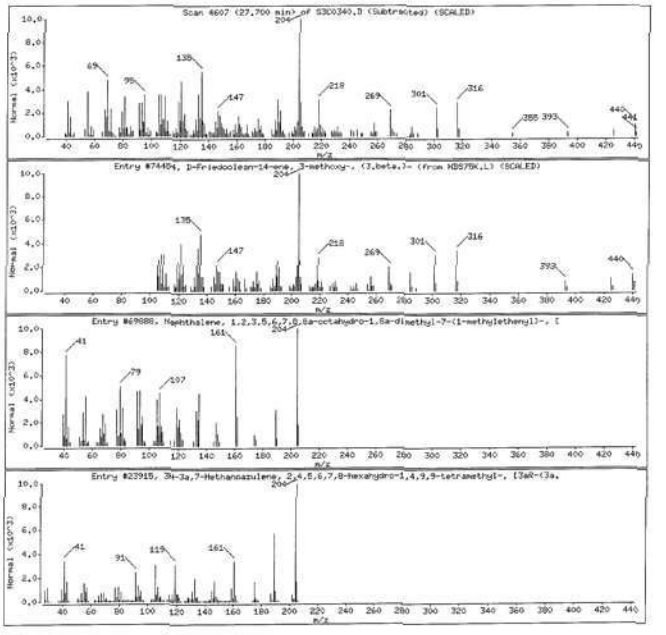
Client ID: 135STB3435 Instrument: s3.i

Sample Info: A1627-29C,135STB3435,MB-4286,GL,,A1627

Volume Injected (uL): 1.0 Operator: GL

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3-Friedolean-14-ene, 3-methoxy-, (3.bet	14021-23-9	NBS75K.L	74484	92	C31H52O	440
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NBS75K.L	69888	43	C15H24	204
3H-3a,7-Methanoazulene, 2,4,5,6,7,8-hexa	2387-78-2	NBS75K.L	23915	30	C15H24	204



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.1\021118.B\S3C0340.D

Date : 18-NOV-2002 21:44

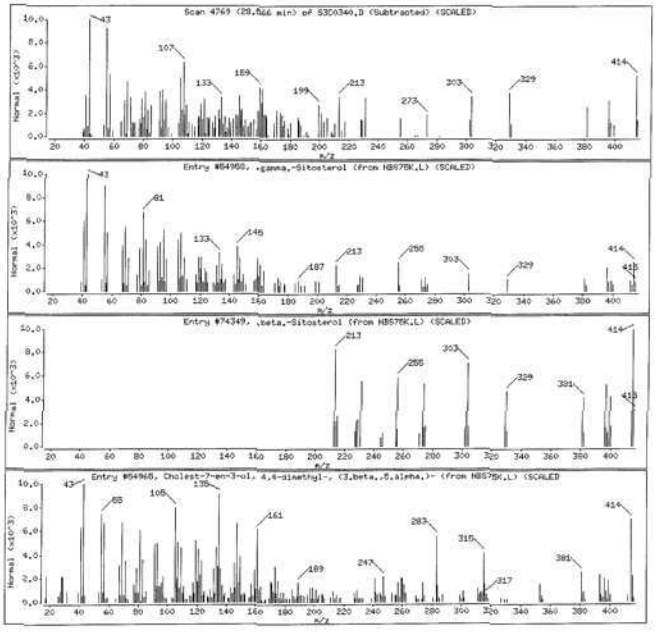
Client ID: 135STB3435 Instrument: s3.i

Sample Info: A1627-29C,135STB3435,MB-4286,GL,,A1627

Volume Injected (uL): 1.0 Operator: GL

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
.gamma.-Sitosterol	83-47-6	NBS75K.L	54958	70	C29H50	414
.beta.-Sitosterol	83-46-5	NBS75K.L	74349	58	C29H50	414
Cholest-7-en-3-ol, 4,4-dimethyl-, (3.bet	4384-28-7	NBS75K.L	54968	38	C29H50	414



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC112E1

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: A1627-07D

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0265

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/11/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC112E1

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-07D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0265
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	1	J
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

000447

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC112E1

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-07D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0265
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

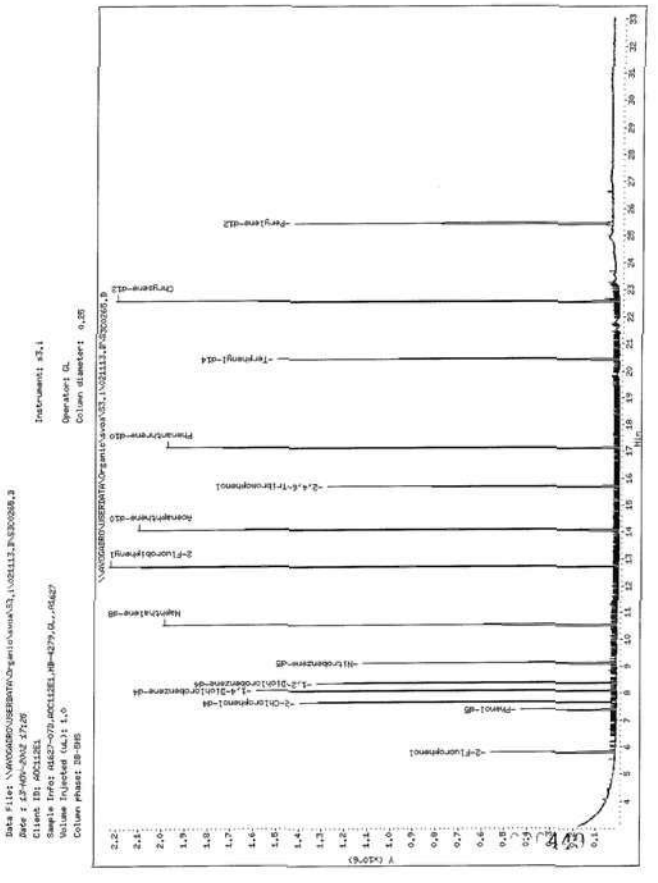
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC OLM03.0

000448



Data File: S3C0265.D
Report Date: 23-Nov-2002 16:25

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3C0265.D
Lab Smp Id: A1627-07D Client Smp ID: AOC112E1
Inj Date : 13-NOV-2002 17:25
Operator : GL Inst ID: s3.i
Smp Info : A1627-07D,AOC112E1,MB-4279,GL,,A1627
Misc Info : 0,,,1,,,,,,,,11-NOV-02,08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3_8270C.m
Meth Date : 14-Nov-2002 08:38 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D✓
Als bottle: 34
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub✓
Target Version: 4.03
Processing Host: TARGET10

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	QUANT SIM MASS	RT	RRT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
$	3 2-Fluorophenol	112	5.806	5.812	(0.717)	280846	21.9329	22
$	5 Phenol-d5	99	7.398	7.404	(0.914)	241982	14.6101	15
$	9 2-Chlorophenol-d4	132	7.671	7.676	(0.948)	609970	44.9838	45
*	12 1,4-Dichlorobenzene-d4	152	8.093	8.098	(1.000)	381024	40.0000	
$	14 1,2-Dichlorobenzene-d4	152	8.376	8.376	(1.035)	319345	37.9932	38
$	23 Nitrobenzene-d5	82	9.129	9.135	(0.867)	565534	39.9096	40
*	31 Naphthalene-d8	136	10.534	10.540	(1.000)	1344892	40.0000	
$	41 2-Fluorobiphenyl	172	12.724	12.730	(0.903)	1039603	41.2741	41
*	48 Acenaphthene-d10	164	14.087	14.092	(1.000)	721932	40.0000	
$	60 2,4,6-Tribromophenol	330	15.700	15.711	(0.918)	216526	60.3969	60
*	64 Phenanthrene-d10	188	17.132	17.143	(1.000)	1159193	40.0000	
$	72 Terphenyl-d14	244	20.439	20.444	(0.906)	754816	30.0428	30
*	76 Chrysene-d12	240	22.565	22.576	(1.000)	1175714	40.0000	
	78 bis(2-Ethylhexyl)phthalate	149	22.661	22.666	(1.004)	36000	1.05819	1(a)

000450

Data File: S3C0265.D
Report Date: 23-Nov-2002 16:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
**********	****	**	******	******	********	*******	*******
* 83 Perylene-d12	264	25.444	25.455 (1.000)		849308	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

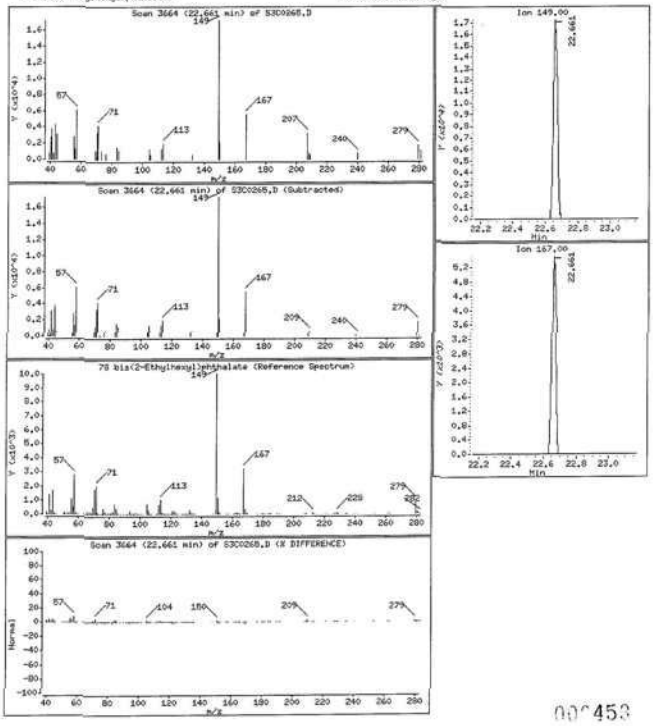
Data File: S3C0265.D
Report Date: 23-Nov-2002 16:25

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3C0265.D
Lab Smp Id: A1627-07D Client Smp ID: AOC112E1
Inj Date : 13-NOV-2002 17:25
Operator : GL Inst ID: s3.i
Smp Info : A1627-07D,AOC112E1,MB-4279,GL,,A1627
Misc Info : 0,,,1,,,,,,,11-NOV-02,08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3_8270C.m
Meth Date : 14-Nov-2002 08:38 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 34
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET10

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3C0265.D
Date : 13-NOV-2002 17:25
Client ID: AOC112E1 Instrument: s3.i
Sample Info: A1627-07D,AOC112E1,MB-4279,GL,,A1627
Volume Injected (uL): 1.0 Operator: GL
Column phase: DB-5MS Column diameter: 0.25
78 bis(2-Ethylhexyl)phthalate Concentration: 1 ug/L



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC13E2

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-25D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0267
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC13E2

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-25D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0267
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

000455

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC13E2

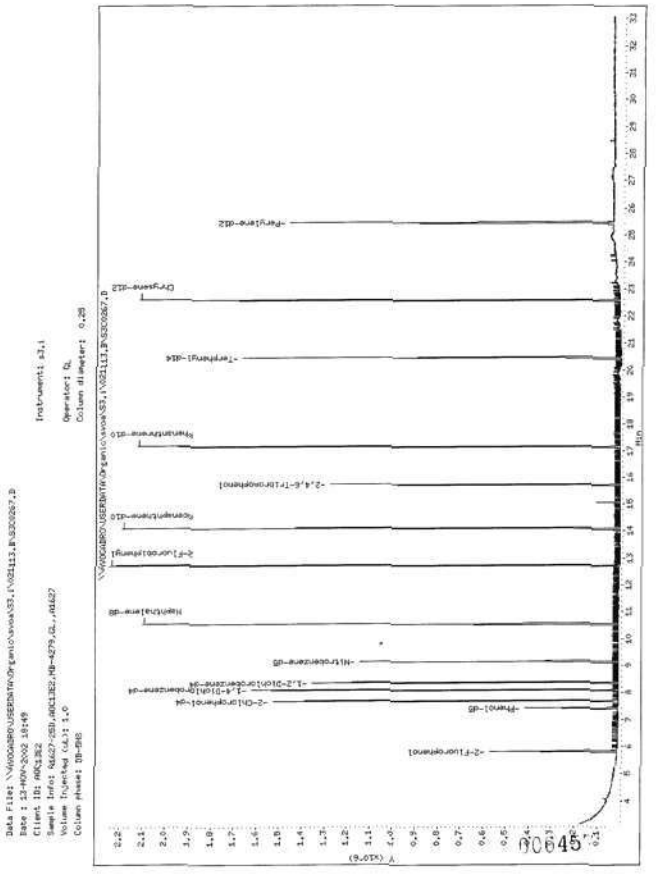
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-25D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0267
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM03.0

000456



000457

Data File: S3C0267.D
Report Date: 23-Nov-2002 16:25

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3C0267.D
Lab Smp Id: A1627-25D Client Smp ID: AOC13E2
Inj Date : 13-NOV-2002 18:49
Operator : GL Inst ID: s3.i
Smp Info : A1627-25D,AOC13E2,MB-4279,GL,,A1627
Misc Info : 0,,,1,,,,,,,11-NOV-02,08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3_8270C.m
Meth Date : 14-Nov-2002 08:38 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 36
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET10

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
**********	****	**	******	******	********	*******	*******
$ 3 2-Fluorophenol	112	5.808	5.822	(0.718)	309580	22.0898	22
$ 5 Phenol-d5	99	7.395	7.404	(0.914)	329828	13.1855	13
$ 8 2-Chlorophenol-d4	132	7.672	7.676	(0.948)	664223	47.3651	47
* 12 1,4-Dichlorobenzene-d4	152	8.095	8.098	(1.000)	394701	40.0000	
$ 14 1,2-Dichlorobenzene-d4	152	8.378	8.376	(1.035)	334693	38.4394	38
$ 22 Nitrobenzene-d5	82	9.131	9.135	(0.867)	598004	41.2949	41
* 31 Naphthalene-d8	136	10.530	10.540	(1.000)	1374337	40.0000	
$ 41 2-Fluorobiphenyl	172	12.721	12.730	(0.903)	1075727	41.9335	42
* 48 Acenaphthene-d10	164	14.084	14.092	(1.000)	795271	40.0000	
$ 60 2,4,6-Tribromophenol	330	15.702	15.711	(0.916)	217621	59.7593	60
* 64 Phenanthrene-d10	188	17.133	17.143	(1.000)	1175720	40.0000	
$ 72 Terphenyl-d14	244	20.440	20.444	(0.906)	872827	34.3777	34
* 76 Chrysene-d12	240	22.566	22.576	(1.000)	1189875	40.0000	
* 83 Perylene-d12	264	25.466	25.455	(1.000)	860759	40.0000	

11/23/02

000458

Data File: S3C0267.D
Report Date: 23-Nov-2002 16:25

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3C0267.D
Lab Smp Id: A1627-25D Client Smp ID: AOC13E2
Inj Date : 13-NOV-2002 18:49
Operator : GL Inst ID: s3.i
Smp Info : A1627-25D,AOC13E2,MB-4279,GL,,A1627
Misc Info : 0,,,1,,,,,,,11-NOV-02,08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3_8270C.m
Meth Date : 14-Nov-2002 08:38 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 36
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET10

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC2BB1

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-36C
Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S3C0349
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/14/02
Concentrated Extract Volume: 500(uL) Date Analyzed: 11/19/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC2BB1

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-36C
Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S3C0349
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/14/02
Concentrated Extract Volume: 500(uL) Date Analyzed: 11/19/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

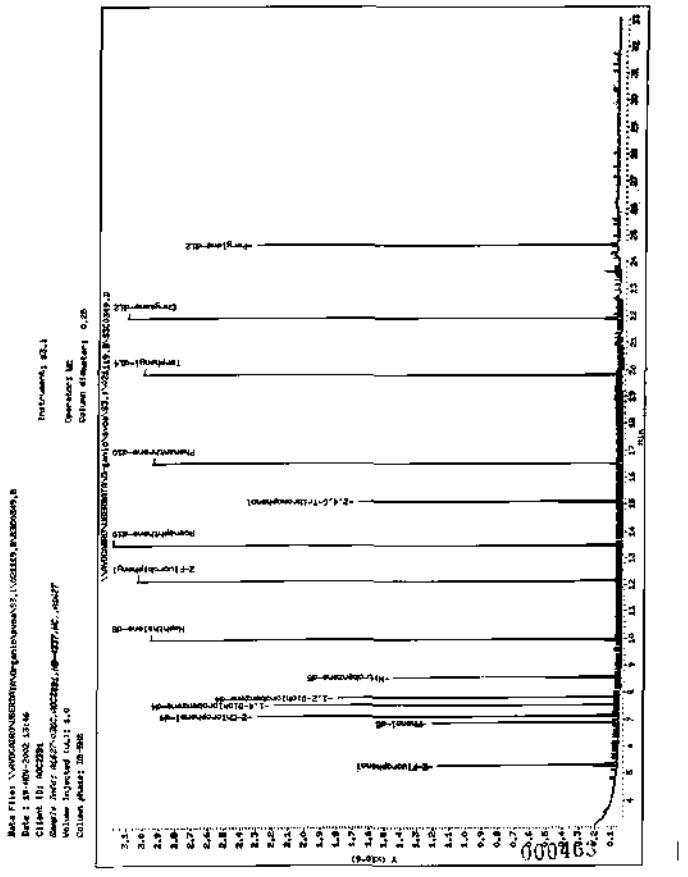
EPA SAMPLE NO.: AOC2BB1

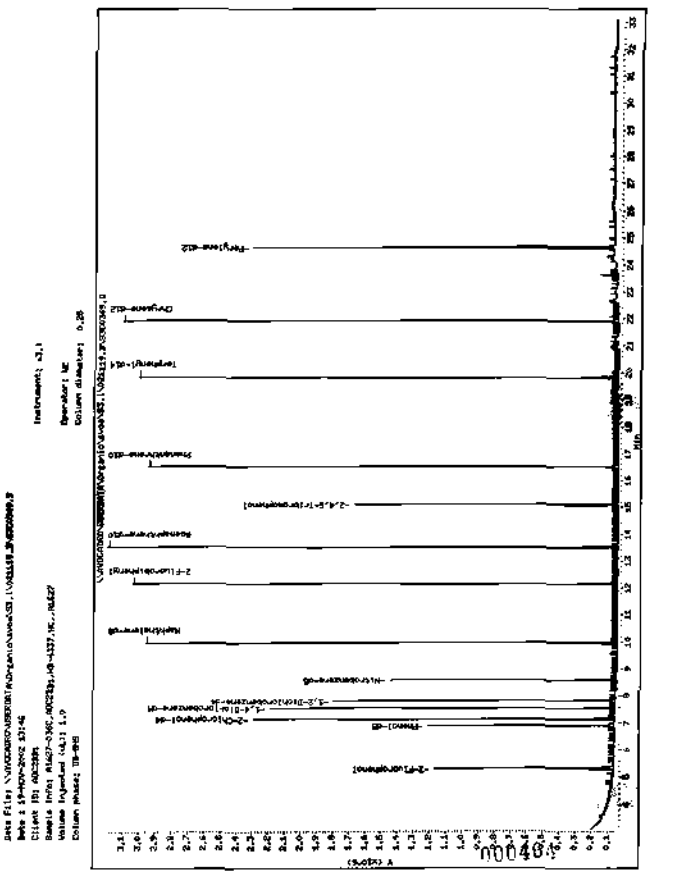
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-36C
Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S3C0349
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/14/02
Concentrated Extract Volume: 500(uL) Date Analyzed: 11/19/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC OLM03.0





Data File: S3C0349.D
Report Date: 27-Nov-2002 11:50

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021119.B\S3C0349.D
Lab Smp Id: A1627-36C Client Smp ID: AOC28B1
Inj Date : 19-NOV-2002 13:46
Operator : WC Inst ID: s3.i
Smp Info : A1627-036C,AOC2BB1,MB-4337,WC,,A1627
Misc Info : 0,,,,,500,,,,,13-NOV-02,08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021119.B\S3_8270C.m
Meth Date : 26-Nov-2002 15:56 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	500.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	500.000	Volume of sample extracted (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)	
$	7 2-Fluorophenol	112	5.212	5.216	(0.300)	717819	37.2807	37	
$	8 Phenol-d5	99	6.964	6.914	(0.914)	664307	37.8256	38	
8	9 2-Chlorophenol-d4	132	7.345	7.349	(0.946)	1037206	51.7479	52	
*	10 1,4-Dichlorobenzene-d4	150	7.554	7.549	(1.000)	883967	45.0000		(Q)
8	16 1,3-Dichlorobenzene-d4	150	7.834	7.838	(1.037)	618492	31.5085	32	
$	22 Nitrobenzene-d5	82	8.887	8.908	(0.861)	716454	35.5454	35	
*	31 Naphthalene-d8	136	9.971	9.960	(1.000)	1825488	90.0000		
$	41 2-Fluorobiphenyl	172	12.161	12.165	(0.901)	1403830	37.8981	38	
*	49 Acenaphthene-d10	164	13.494	13.506	(1.000)	1061924	60.0000		
$	50 2,4,6-Tribromophenol	330	15.184	15.154	(0.814)	295109	57.2629	57	
*	64 Phenanthrene-d10	188	16.920	16.934	(1.000)	1666666	60.0000		
$	71 Terphenyl-d14	244	19.827	19.838	(0.909)	1383728	43.4523	43	
*	76 Chrysene-d12	240	21.814	21.838	(1.000)	1703735	60.0000		
*	81 Perylene-d12	264	24.649	24.649	(1.000)	1338606	60.0000		

11/27/02

Data File: S3C0349.D
Report Date: 27-Nov-2002 11:50

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: S3C0349.D
Report Date: 27-Nov-2002 11:50

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021119.B\S3C0349.D
Lab Smp Id: A1627-36C Client Smp ID: AOC2BB1
Inj Date : 19-NOV-2002 13:46
Operator : WC Inst ID: s3.i
Smp Info : A1627-036C,AOC2BB1,MB-4337,WC,,A1627
Misc Info : 0,,,,,500,,,,,13-NOV-02,08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021119.B\S3_8270C.m
Meth Date : 26-Nov-2002 15:56 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC2BB2

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-37C
Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S3C0352
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/14/02
Concentrated Extract Volume: 500(uL) Date Analyzed: 11/19/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC2BB2

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-37C
Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S3C0352
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/14/02
Concentrated Extract Volume: 500(uL) Date Analyzed: 11/19/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

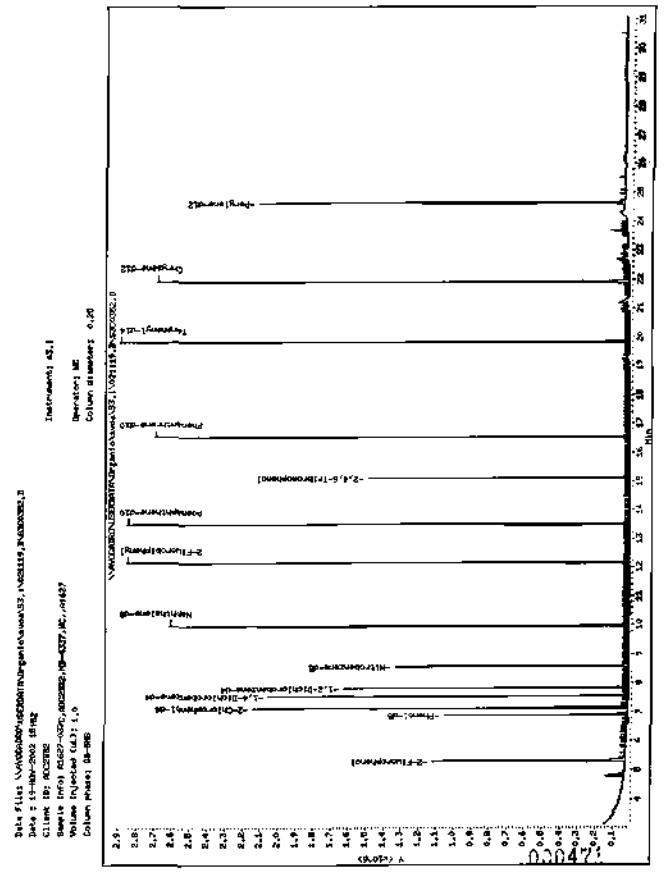
1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: AOC2BB2

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-37C
Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S3C0352
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/14/02
Concentrated Extract Volume: 500(uL) Date Analyzed: 11/19/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	RST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					



000471

Data File: S3C0352.D
Report Date: 27-Nov-2002 11:50

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021119.B\S3C0352.D
Lab Smp Id: A1627-37C Client Smp ID: AOC2BB2
Inj Date : 19-NOV-2002 15:52
Operator : WC Inst ID: s3.i
Smp Info : A1627-037C,AOC2BB2,MB-4337,WC,,A1627
Misc Info : 0,,,,,500,,,,,13-NOV-02,08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021119.B\S3_8270C.m
Meth Date : 26-Nov-2002 15:56 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	500.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	500.000	Volume of sample extracted (mL)

	Compounds	Quant Ion	RRF	Rel RT	RT Win	Response	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
$	3 2-Fluorophenol	112	0.310	0.316	(0.792)	456849	35.9440	37
$	5 Phenol-d5	99	0.902	0.914	(0.913)	443347	25.1085	26
$	8 2-Chlorophenol-d4	132	7.143	7.249	(0.985)	944846	49.8959	53
*	12 1,4-Dichlorobenzene-d4	152	7.559	7.540	(1.000)	439549	40.0000	(Q)
$	14 1,2-Dichlorobenzene-d4	152	7.629	7.838	(1.038)	359300	35.5498	35
$	22 Nitrobenzene-d5	82	0.898	0.898	(0.861)	477984	36.2788	36
*	31 Naphthalene-d8	136	0.976	0.980	(1.000)	1779461	40.0000	
$	44 2-Fluorobiphenyl	172	13.159	13.168	(0.985)	1304152	36.1982	38
*	49 Acenaphthene-d10	164	13.308	13.308	(1.000)	974891	40.0000	
$	60 2,4,6-Tribromophenol	330	18.198	18.214	(0.836)	288070	84.5129	86
*	64 Phenanthrene-d10	188	16.329	16.324	(1.000)	1591465	40.0000	
$	72 Terphenyl-d14	244	19.835	19.826	(0.884)	1448795	43.8482	43
*	74 Chrysene-d12	240	21.819	21.830	(1.000)	1558695	40.0000	
*	82 Perylene-d12	264	24.649	24.648	(1.000)	1197205	40.0000	

11/27/02

000472

Data File: S3C0352.D
Report Date: 27-Nov-2002 11:50

QC Flag Legend

Q - Qualifier signal failed the ratio test.

000473

Data File: S3C0352.D
Report Date: 27-Nov-2002 11:50

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021119.B\S3C0352.D
Lab Smp Id: A1627-37C Client Smp ID: AOC2BB2
Inj Date : 19-NOV-2002 15:52
Operator : WC Inst ID: s3.i
Smp Info : A1627-037C,AOC2BB2,MB-4337,WC,,A1627
Misc Info : 0,,,,,500,,,,,13-NOV-02,08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021119.B\S3_8270C.m
Meth Date : 26-Nov-2002 15:56 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

000474

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2E3

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-13D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0266
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1 OLM03.0

000475

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2E3

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-13D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0266
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

000476

1P
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC2E3

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-13D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0266
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

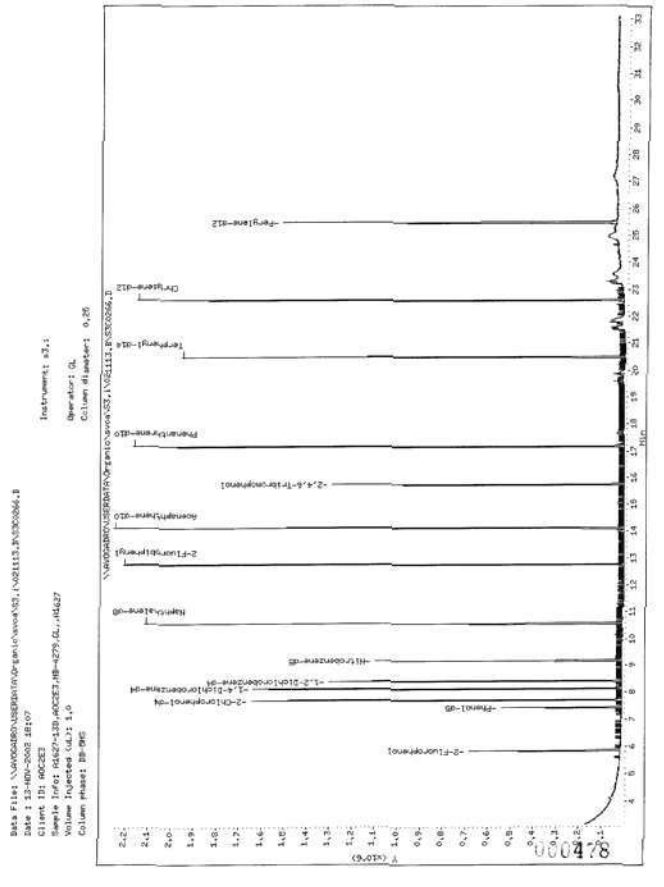
Number TICs found: 0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM03.0

000477



000478

Data File: S3C0266.D
Report Date: 23-Nov-2002 16:25

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3C0266.D
Lab Smp Id: A1627-13D Client Smp ID: AOC2E3
Inj Date : 13-NOV-2002 18:07
Operator : GL Inst ID: s3.i
Smp Info : A1627-13D,AOC2E3,MB-4279,GL,,A1627
Misc Info : 0,,,1,,,,,,,,11-NOV-02,08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3_8270C.m
Meth Date : 14-Nov-2002 08:38 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D ✓
Als bottle: 35
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub ✓
Target Version: 4.03
Processing Host: TARGET10

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 3 2-Fluorophenol	112	5.808	5.812	(0.718)	374392	27.0991	27
$ 5 Phenol-d5	99	7.395	7.404	(0.914)	293857	17.0121	17
$ 9 2-Chlorophenol-d4	132	7.672	7.676	(0.948)	719729	51.0295	51
* 13 1,4-Dichlorobenzene-d4	152	8.094	8.098	(1.000)	398369	40.0000	
$ 14 1,2-Dichlorobenzene-d4	152	8.377	8.376	(1.035)	321449	36.7074	37
$ 22 Nitrobenzene-d5	82	9.131	9.135	(0.867)	576946	39.3963	39
* 31 Naphthalene-d8	136	10.530	10.540	(1.000)	1389909	40.0000	
$ 41 2-Fluorobiphenyl	172	12.726	12.730	(0.903)	1059589	40.7382	41
* 48 Acenaphthene-d10	164	14.088	14.092	(1.000)	745495	40.0000	
$ 62 2,4,6-Tribromophenol	330	15.702	15.711	(0.918)	218466	59.4804	59
* 64 Phenanthrene-d10	188	17.133	17.143	(1.000)	1185821	40.0000	
$ 72 Terphenyl-d14	244	20.440	20.444	(0.906)	1010699	39.2667	39
* 76 Chrysene-d12	240	32.566	32.576	(1.000)	1203182	40.0000	
* 83 Perylene-d12	264	25.446	25.455	(1.000)	875655	40.0000	

11/25/02

000479

Data File: S3C0266.D
Report Date: 23-Nov-2002 16:25

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3C0266.D
Lab Smp Id: A1627-13D Client Smp ID: AOC2E3
Inj Date : 13-NOV-2002 18:07
Operator : GL Inst ID: s3.i
Smp Info : A1627-13D,AOC2E3,MB-4279,GL,,A1627
Misc Info : 0,,,1,,,,,,,,11-NOV-02,08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3_8270C.m
Meth Date : 14-Nov-2002 08:38 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 35
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET10

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

000480

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC2E4

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-51D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0268
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1 OLM03.0

000481

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC2E4

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-51D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0268
Level: (low/med) LOW Date Received: 11/08/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

000482

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AOC2E4

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: A1627-51D

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0268

Level: (low/med) LOW Date Received: 11/08/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/11/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

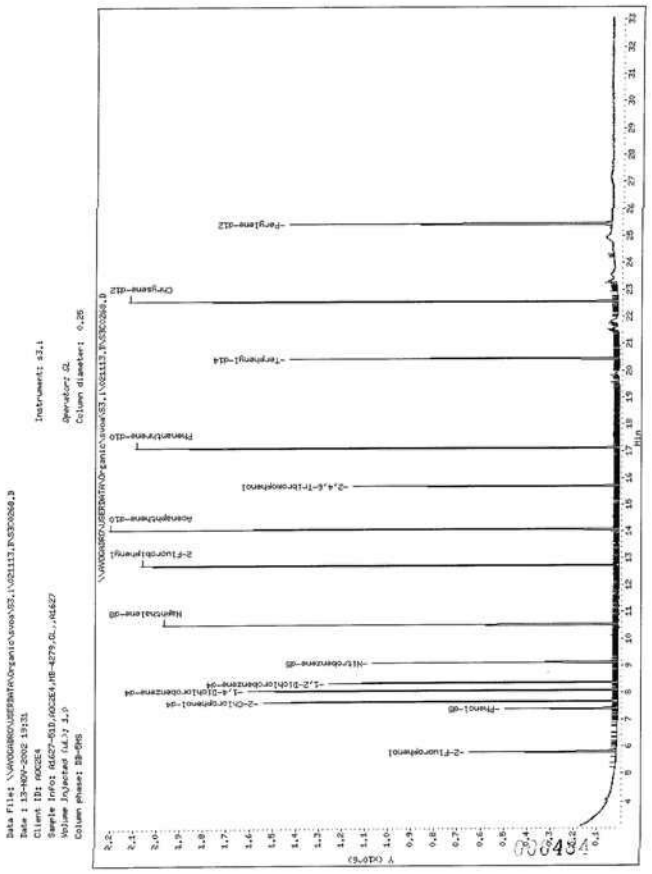
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC OLM03.0

000483



000484

Data File: S3C0268.D
Report Date: 23-Nov-2002 16:25

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3C0268.D
Lab Smp Id: A1627-51D Client Smp ID: AOC2E4
Inj Date : 13-NOV-2002 19:31
Operator : GL Inst ID: s3.i
Smp Info : A1627-51D,AOC2E4,MB-4279,GL,,A1627
Misc Info : 0,,,1,,,,,,,11-NOV-02,08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3_8270C.m
Meth Date : 14-Nov-2002 08:38 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 37
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET10

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
$	3 2-Fluorophenol	112	5.807	5.813	(0.719)	353426	26.4331	26
$	5 Phenol-d5	99	7.394	7.404	(0.914)	276294	16.5447	16
$	9 2-Chlorophenol-d4	132	7.671	7.674	(0.948)	667698	48.9148	49
*	12 1,4-Dichlorobenzene-d4	152	8.093	8.088	(1.000)	384180	40.0000	
$	14 1,2-Dichlorobenzene-d4	152	8.376	8.376	(1.035)	303355	35.7943	36
$	23 Nitrobenzene-d5	82	9.130	9.135	(0.867)	545687	38.4684	38
*	31 Naphthalene-d8	136	10.529	10.540	(1.000)	1346313	40.0000	
$	41 2-Fluorobiphenyl	172	12.725	12.730	(0.903)	884898	28.8507	29
*	48 Acenaphthene-d10	164	14.087	14.092	(1.000)	726459	40.0000	
$	60 2,4,6-Tribromophenol	330	15.700	15.711	(0.916)	195841	54.4915	54
*	64 Phenanthrene-d10	188	17.133	17.143	(1.000)	1160336	40.0000	
$	72 Terphenyl-d14	244	20.449	20.444	(0.908)	741359	29.7056	30
*	76 Chrysene-d12	240	22.568	22.576	(1.000)	1164605	40.0000	
*	83 Perylene-d12	264	25.448	25.455	(1.000)	847802	40.0000	

11/23/...

000485

Data File: S3C0268.D
Report Date: 23-Nov-2002 16:25

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3C0268.D
Lab Smp Id: A1627-51D Client Smp ID: AOC2E4
Inj Date : 13-NOV-2002 19:31
Operator : GL Inst ID: s3.i
Smp Info : A1627-51D,AOC2E4,MB-4279,GL,,A1627
Misc Info : 0,,,1,,,,,,,11-NOV-02,08-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3_8270C.m
Meth Date : 14-Nov-2002 08:38 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 37
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET10

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

000486

6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: S3 Calibration Date(s): 11/12/02 11/12/02

Calibration Time(s): 1650 2021

LAB FILE ID: RRF10 =S3C0232 RRF20 =S3C0233
RRF50 =S3C0230 RRF80 =S3C0234 RRF120=S3C0235

COMPOUND	RRF10	RRF20	RRF50	RRF80	RRF120	RRF	%RSD
Phenol	* 1.868		1.972	1.838	1.809		*
bis(2-Chloroethyl)Ether	* 1.502		1.543	1.440	1.425		*
2-Chlorophenol	* 1.433		1.491	1.397	1.392		*
1,3-Dichlorobenzene	* 1.474		1.556	1.467	1.464		*
1,4-Dichlorobenzene	* 1.573		1.629	1.548	1.537		*
1,2-Dichlorobenzene	* 1.407		1.478	1.394	1.395		*
2-Methylphenol	* 1.230		1.315	1.235	1.217		*
2,2'-oxybis(1-Chloropropane)	* 2.115		2.174	2.008	1.938		*
4-Methylphenol	* 1.396		1.481	1.375	1.358		*
N-Nitroso-di-n-propylamine	* 0.750		0.793	0.759	0.752		*
Hexachloroethane	* 0.563		0.588	0.557	0.553		*
Nitrobenzene	* 0.439		0.463	0.441	0.437		*
Isophorone	* 0.714		0.750	0.715	0.710		*
2-Nitrophenol	* 0.206		0.225	0.217	0.221		*
2,4-Dimethylphenol	* 0.370		0.370	0.377	0.377		*
2,4-Dichlorophenol	* 0.294		0.317	0.309	0.312		*
1,2,4-Trichlorobenzene	* 0.305		0.323	0.315	0.320		*
Naphthalene	* 1.136		1.177	1.108	1.079		*
4-Chloroaniline	* 0.442		0.450	0.440	0.442		*
bis(2-Chloroethoxy)methane	* 0.470		0.499	0.480	0.480		*
Hexachlorobutadiene	* 0.157		0.168	0.166	0.170		*
4-Chloro-3-Methylphenol	* *0.324*		*0.353*	*0.342*	*0.344*		*
2-Methylnaphthalene	* 0.755		0.791	0.762	0.750		*
Hexachlorocyclopentadiene	* 0.274		0.292	0.327	0.333		*
2,4,6-Trichlorophenol	* 0.347		0.396	0.379	0.390		*
2,4,5-Trichlorophenol	*	0.368	0.420	0.406	0.416		*
2-Chloronaphthalene	* 1.146		1.242	1.180	1.186		*
2-Nitroaniline	*	0.404	0.448	0.423	0.426		*
Dimethylphthalate	* 1.296		1.415	1.351	1.360		*
Acenaphthylene	* 1.966		2.109	1.991	1.939		*
2,6-Dinitrotoluene	* 0.301		0.343	0.331	0.340		*
3-Nitroaniline	*	0.360	0.389	0.375	0.379		*
Acenaphthene	* 1.214		1.318	1.246	1.239		*
2,4-Dinitrophenol	*	0.111	0.170	0.187	0.207		*
4-Nitrophenol	*	0.158	0.187	0.179	0.182		*
Dibenzofuran	* 1.670		1.840	1.751	1.755		*
2,4-Dinitrotoluene	* 0.389		0.445	0.432	0.449		*

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

000487

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: S3 Calibration Date(s): 11/12/02 11/12/02

Calibration Time(s): 1650 2021

LAB FILE ID: RRF10 =S3C0232 RRF20 =S3C0233
RRF50 =S3C0230 RRF80 =S3C0234 RRF120=S3C0235

COMPOUND	RRF10	RRF20	RRF50	RRF80	RRF120	RRF	%RSD
Diethylphthalate	* 1.277		1.399	1.330	1.331		*
4-Chlorophenyl-phenylether	* 0.601		0.685	0.674	0.707		*
Fluorene	* 1.353		1.522	1.458	1.462		*
4-Nitroaniline	*	0.348	0.372	0.347	0.357		*
4,6-Dinitro-2-methylphenol	*	0.128	0.161	0.165	0.175		*
N-Nitrosodiphenylamine (1)	* 0.565		0.605	0.584	0.591		*
4-Bromophenyl-phenylether	* 0.217		0.240	0.236	0.246		*
Hexachlorobenzene	* 0.224		0.244	0.240	0.250		*
Pentachlorophenol	*	0.132	0.161	0.160	0.170		*
Phenanthrene	* 1.145		1.221	1.173	1.168		*
Anthracene	* 1.180		1.240	1.210	1.193		*
Carbazole	*	1.033	1.042	0.977	0.963		*
Di-n-butylphthalate	* 1.344		1.469	1.388	1.376		*
Fluoranthene	* 1.177		1.294	1.241	1.245		*
Pyrene	* 1.188		1.252	1.182	1.154		*
Butylbenzylphthalate	* 0.528		0.593	0.560	0.559		*
3,3'-Dichlorobenzidine	* 0.382		0.426	0.406	0.410		*
Benzo(a)anthracene	* 1.128		1.197	1.140	1.127		*
Chrysene	* 1.034		1.125	1.073	1.067		*
bis(2-Ethylhexyl)phthalate	* 0.776		0.889	0.848	0.851		*
Di-n-octylphthalate	* 1.776		2.141	2.011	1.973		*
Benzo(b)fluoranthene	* 1.526		1.713	1.617	1.662		*
Benzo(k)fluoranthene	* 1.380		1.568	1.477	1.485		*
Benzo(a)pyrene	* 1.398		1.573	1.501	1.523		*
Indeno(1,2,3-cd)pyrene	* 1.474		1.709	1.634	1.654		*
Dibenzo(a,h)anthracene	* 1.455		1.705	1.602	1.639		*
Benzo(g,h,i)perylene	* 1.466		1.675	1.554	1.581		*
Nitrobenzene-d5	0.416		0.438	0.420	0.417		*
2-Fluorobiphenyl	* 1.353		1.458	1.393	1.393		*
Terphenyl-d14	* 0.827		0.898	0.866	0.855		*
Phenol-d5	* 1.740		1.844	1.714	1.709		*
2-Fluorophenol	* 1.374		1.470	1.378	1.369		*
2,4,6-Tribromophenol	* 0.108		0.126	0.122	0.128		*
2-Chlorophenol-d4	* 1.395		1.496	1.410	1.405		*
1,2-Dichlorobenzene-d4	* 0.876		0.922	0.872	0.871		*

(1) Cannot be seperated from Diphenylamine
* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

000488

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: S3 Calibration Date(s): 11/12/02 11/12/02

Calibration Time(s): 1650 2021

LAB FILE ID: RRF160=S3C0231

COMPOUND	RRF160	RRF	%RSD
Phenol	* 1.784	1.854	3.9*
bis(2-Chloroethyl)Ether	* 1.400	1.462	4.0*
2-Chlorophenol	* 1.375	1.418	3.2*
1,3-Dichlorobenzene	* 1.455	1.483	2.8*
1,4-Dichlorobenzene	* 1.515	1.560	2.8*
1,2-Dichlorobenzene	* 1.380	1.411	2.8*
2-Methylphenol	* *1.203*	*1.240*	*3.5**
2,2'-oxybis(1-Chloropropane)	* 1.846	2.016	6.6*
4-Methylphenol	* 1.340	1.390	3.9*
N-Nitroso-di-n-propylamine	* 0.739	0.759	2.7*
Hexachloroethane	* 0.552	0.563	2.6*
Nitrobenzene	* 0.430	0.442	2.8*
Isophorone	* 0.705	0.719	2.5*
2-Nitrophenol	* 0.225	0.219	3.6*
2,4-Dimethylphenol	* 0.382	0.375	1.4*
2,4-Dichlorophenol	* 0.318	0.310	3.2*
1,2,4-Trichlorobenzene	* 0.329	0.318	2.8*
Naphthalene	* 1.038	1.108	4.8*
4-Chloroaniline	* 0.444	0.444	0.9*
bis(2-Chloroethoxy)methane	* 0.474	0.481	2.3*
Hexachlorobutadiene	* 0.176	0.167	4.2*
4-Chloro-3-Methylphenol	* 0.348	0.342	3.2*
2-Methylnaphthalene	* 0.741	0.760	2.5*
Hexachlorocyclopentadiene	* 0.345	0.314	9.5*
2,4,6-Trichlorophenol	* 0.403	0.383	5.8*
2,4,5-Trichlorophenol	* 0.431	0.408	6.0*
2-Chloronaphthalene	* 1.192	1.189	2.9*
2-Nitroaniline	* 0.424	0.425	3.6*
Dimethylphthalate	* 1.348	1.354	3.1*
Acenaphthylene	* 1.892	1.979	4.1*
2,6-Dinitrotoluene	* 0.345	0.332	5.4*
3-Nitroaniline	* 0.386	0.378	3.1*
Acenaphthene	* 1.222	1.248	3.3*
2,4-Dinitrophenol	* 0.214	0.178	23.2*
4-Nitrophenol	* 0.184	0.178	6.6*
Dibenzofuran	* 1.740	1.751	3.4*
2,4-Dinitrotoluene	* 0.466	0.436	6.6*

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

000489

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: S3 Calibration Date(s): 11/12/02 11/12/02

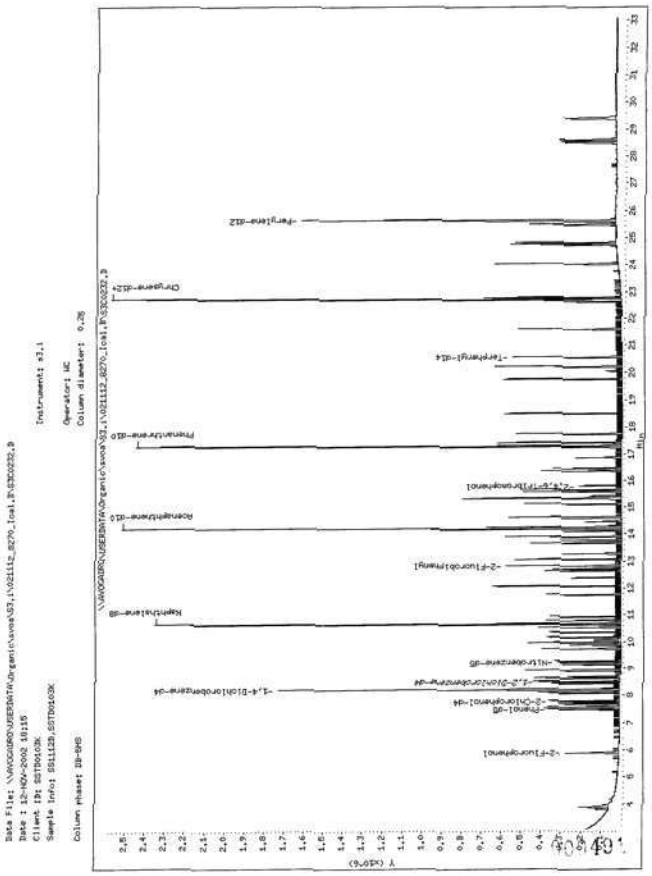
Calibration Time(s): 1650 2021

LAB FILE ID: RRF160=S3C0231

COMPOUND	RRF160	RRF	%RSD
Diethylphthalate	* 1.343	1.336	3.2*
4-Chlorophenyl-phenylether	* 0.713	0.676	6.6*
Fluorene	* 1.422	1.443	4.3*
4-Nitroaniline	* 0.359	0.357	2.8*
4,6-Dinitro-2-methylphenol	* 0.180	0.162	12.6*
N-Nitrosodiphenylamine (1)	* 0.595	0.588	2.5*
4-Bromophenyl-phenylether	* 0.259	0.240	6.4*
Hexachlorobenzene	* 0.259	0.243	5.2*
Pentachlorophenol	* 0.180	0.161	11.3*
Phenanthrene	* 1.143	1.170	2.7*
Anthracene	* 1.174	1.199	2.2*
Carbazole	* 0.962	0.995	3.9*
Di-n-butylphthalate	* 1.325	1.380	4.0*
Fluoranthene	* 1.226	1.237	3.4*
Pyrene	* 1.105	1.176	4.6*
Butylbenzylphthalate	* 0.550	0.558	4.2*
3,3'-Dichlorobenzidine	* 0.434	0.412	4.9*
Benzo(a)anthracene	* 1.118	1.142	2.8*
Chrysene	* 1.022	1.064	3.8*
bis(2-Ethylhexyl)phthalate	* 0.823	0.837	5.0*
Di-n-octylphthalate	* 1.866	1.953	7.2*
Benzo(b)fluoranthene	* 1.693	1.642	4.5*
Benzo(k)fluoranthene	* 1.456	1.473	4.6*
Benzo(a)pyrene	* 1.530	1.505	4.4*
Indeno(1,2,3-cd)pyrene	* 1.745	1.643	6.4*
Dibenzo(a,h)anthracene	* 1.664	1.613	5.9*
Benzo(g,h,i)perylene	* 1.600	1.575	4.8*
Nitrobenzene-d5	0.416	0.421	2.3*
2-Fluorobiphenyl	* 1.381	1.396	2.7*
Terphenyl-d14	* 0.832	0.856	3.4*
Phenol-d5	* 1.686	1.739	3.6*
2-Fluorophenol	* 1.369	1.392	3.2*
2,4,6-Tribromophenol	* 0.136	0.124	8.4*
2-Chlorophenol-d4	* 1.400	1.421	3.0*
1,2-Dichlorobenzene-d4	* 0.872	0.883	2.5*

(1) Cannot be seperated from Diphenylamine
* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

000490



Data File: S3C0232.D
Report Date: 13-Nov-2002 11:10

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021112_8270_Ical.B\S3C0232.D
Lab Smp Id: SS1112D Client Smp ID: SSTD0103K
Inj Date : 12-NOV-2002 18:15
Operator : WC Inst ID: s3.i
Smp Info : SS1112D,SSTD0103K
Misc Info : 1,1,SSTD010,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021112_8270_Ical.B\S3_8270C.
Meth Date : 13-Nov-2002 08:59 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 18:15 Cal File: S3C0232.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270_ALL.sub
Target Version: 4.03
Processing Host: TARGET1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	CM-COL (ng)	
	1 N-Nitrosodimethylamine	74	3.814	3.793	(0.665)	81909	10.0000	9	
	2 Pyridine	79	3.884	3.863	(0.674)	168478	10.0000	9	
$	3 2-Fluorophenol	112	5.908	5.909	(0.721)	150657	10.0000	10	
$	5 Phenol-d5	99	7.495	7.506	(0.914)	190658	10.0000	10	
	6 Phenol	94	7.521	7.527	(0.917)	204745	10.0000	10	
	7 Aniline	93	7.597	7.601	(0.926)	225901	10.0000	10	
	8 bis(2-Chloroethyl)Ether	93	7.709	7.714	(0.940)	164614	10.0000	10	
$	9 2-Chlorophenol-d4	132	7.778	7.784	(0.949)	162930	10.0000	10	
	10 2-Chlorophenol	128	7.811	7.811	(0.952)	157039	10.0000	10	
	11 1,3-Dichlorobenzene	146	8.099	8.099	(0.988)	161530	10.0000	10	
*	12 1,4-Dichlorobenzene-d4	152	8.200	8.206	(1.000)	638332	40.0000		
	13 1,4-Dichlorobenzene	146	8.232	8.238	(1.004)	172363	10.0000	10	
	15 Benzyl Alcohol	108	8.444	8.452	(1.030)	94485	10.0000	9	
$	14 1,2-Dichlorobenzene-d4	152	8.483	8.489	(1.035)	95960	10.0000	10	
	16 1,2-Dichlorobenzene	146	8.510	8.516	(1.038)	154204	10.0000	10	
	17 2-Methylphenol	108	8.638	8.644	(1.053)	134871	10.0000	10	
	18 2,2'-oxybis(1-Chloropropane)	45	8.697	8.713	(1.062)	231803	10.0000	10	(M)
	20 4-Methylphenol	108	8.927	8.938	(1.089)	153030	10.0000	10	
	19 N-Nitroso-di-n-propylamine	70	8.948	8.959	(1.091)	83290	10.0000	10	
	21 Hexachloroethane	117	9.151	9.157	(1.116)	61724	10.0000	10	
$	22 Nitrobenzene-d5	82	9.237	9.242	(0.868)	160551	10.0000	10	
	23 Nitrobenzene	77	9.274	9.280	(0.871)	149546	10.0000	10	
	24 Isophorone	82	9.738	9.744	(0.915)	275576	10.0000	10	
	25 2-Nitrophenol	139	9.894	9.894	(0.929)	79425	10.0000	9	
	26 2,4-Dimethylphenol	107	9.969	9.974	(0.936)	142930	10.0000	10	
	27 bis(2-Chloroethoxy)methane	93	10.171	10.177	(0.955)	181650	10.0000	10	

NC: peak not fully integrated GE 11/13/02

Data File: S3C0232.D
Report Date: 13-Nov-2002 11:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	CM-COL (ng)
	28 Benzoic Acid	105	10.075	10.066	(0.946)	86379	10.0000	8
	29 2,4-Dichlorophenol	162	10.358	10.364	(0.973)	113322	10.0000	9
	30 1,2,4-Trichlorobenzene	180	10.535	10.535	(0.989)	117826	10.0000	10
*	31 Naphthalene-d8	136	10.647	10.653	(1.000)	1544353	40.0000	
	32 Naphthalene	128	10.690	10.699	(1.004)	438730	10.0000	10
	33 4-Chloroaniline	127	10.787	10.802	(1.014)	170849	10.0000	10
	34 Hexachlorobutadiene	225	10.939	10.943	(1.027)	40567	10.0000	9
	35 4-Chloro-3-Methylphenol	107	11.769	11.774	(1.105)	125247	10.0000	9
	36 2-Methylnaphthalene	142	12.084	12.090	(1.135)	291600	10.0000	10
	37 1-Methylnaphthalene	142	12.084	12.090	(1.138)	291600	10.0000	10
	38 Hexachlorocyclopentadiene	237	12.399	12.399	(0.873)	57815	10.0000	9
	39 2,4,6-Trichlorophenol	196	12.650	12.656	(0.891)	73232	10.0000	9
	40 2,4,5-Trichlorophenol	196	12.720	12.720	(0.895)	74863	10.0000	9
$	41 2-Fluorobiphenyl	172	12.857	12.863	(0.904)	285853	10.0000	10
	42 2-Chloronaphthalene	162	13.067	13.072	(0.920)	241935	10.0000	10
	43 2-Nitroaniline	65	13.281	13.286	(0.935)	82498	10.0000	9
	44 Dimethylphthalate	163	13.671	13.681	(0.962)	273593	10.0000	10
	45 2,6-Dinitrotoluene	165	13.788	13.794	(0.971)	63409	10.0000	9
	46 Acenaphthylene	152	13.911	13.917	(0.979)	415055	10.0000	10
	47 3-Nitroaniline	138	14.119	14.130	(0.994)	74717	10.0000	9
*	48 Acenaphthene-d10	164	14.205	14.210	(1.000)	844210	40.0000	
	49 Acenaphthene	153	14.263	14.280	(1.004)	254297	10.0000	10
	50 2,4-Dinitrophenol	184	14.338	14.344	(1.009)	16153	10.0000	4
	51 4-Nitrophenol	109	14.467	14.477	(1.018)	30992	10.0000	8
	53 2,4-Dinitrotoluene	165	14.405	14.416	(1.028)	82164	10.0000	9
	52 Dibenzofuran	168	14.627	14.633	(1.030)	332579	10.0000	10
	54 Diethylphthalate	149	15.124	15.140	(1.065)	269619	10.0000	10
	55 Fluorene	166	15.327	15.334	(1.079)	285503	10.0000	9
	56 4-Chlorophenyl-phenylether	204	15.343	15.348	(1.080)	126902	10.0000	9
	57 4-Nitroaniline	138	15.364	15.380	(1.082)	77225	10.0000	10
	58 4,6-Dinitro-2-methylphenol	198	15.433	15.444	(0.896)	36789	10.0000	7
	59 N-Nitrosodiphenylamine	169	15.583	15.594	(0.903)	131965	10.0000	10
$	60 2,4,6-Tribromophenol	330	15.818	15.824	(0.917)	36526	10.0000	9
	61 4-Bromophenyl-phenylether	248	16.347	16.353	(0.947)	73902	10.0000	9
	62 Hexachlorobenzene	284	16.448	16.454	(0.953)	76304	10.0000	9
	63 Pentachlorophenol	266	16.860	16.865	(0.977)	41058	10.0000	8
*	64 Phenanthrene-d10	188	17.255	17.261	(1.000)	1358964	40.0000	
	65 Phenanthrene	178	17.303	17.309	(1.003)	389056	10.0000	10
	66 Anthracene	178	17.410	17.416	(1.009)	401085	10.0000	10
	67 Carbazole	167	17.747	17.752	(1.024)	343742	10.0000	11
	68 Di-n-butylphthalate	149	18.500	18.511	(1.072)	454487	10.0000	10
	69 Fluoranthene	202	19.745	19.756	(1.144)	399984	10.0000	10
	71 Pyrene	202	20.209	20.215	(0.891)	420772	10.0000	10
$	72 Terphenyl-d14	244	20.557	20.562	(0.906)	292988	10.0000	10
	73 Butylbenzylphthalate	149	21.582	21.588	(0.951)	167203	10.0000	9
	74 3,3'-Dichlorobenzidine	252	22.629	22.640	(0.997)	135415	10.0000	9
	75 Benzo(a)anthracene	228	22.672	22.678	(0.999)	394494	10.0000	10

Data File: S3C0232.D
Report Date: 13-Nov-2002 11:10

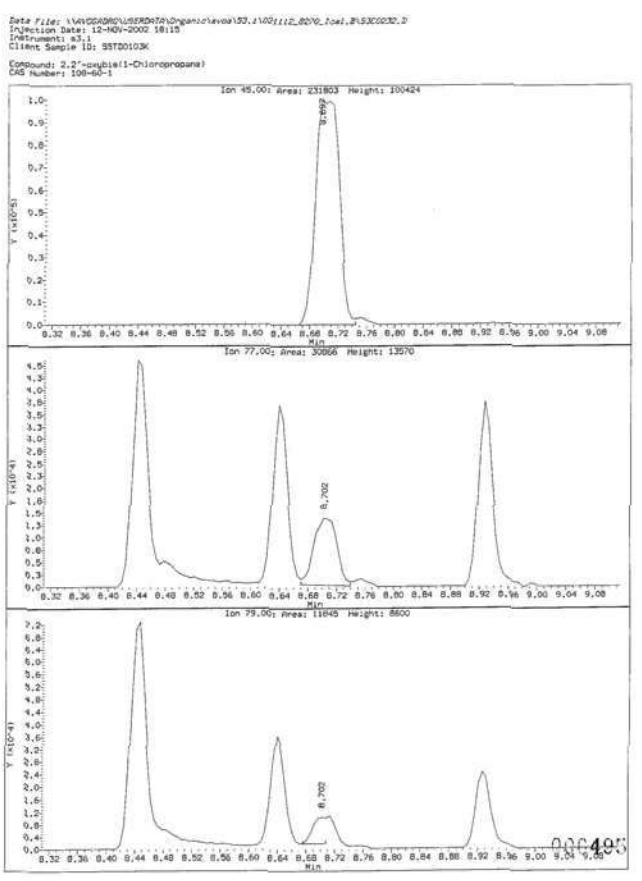
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	CM-COL (ng)	
*	76 Chrysene-d12	240	22.693	22.699	(1.000)	1417002	40.0000		
	78 bis(2-Ethylhexyl)phthalate	149	22.774	22.779	(1.004)	274885	10.0000	9	
	77 Chrysene	228	22.742	22.752	(1.002)	366438	10.0000	10	
	70 Benzidine	184	22.688	22.699	(2.767)	11457	10.0000	34	
	79 Di-n-octylphthalate	149	24.045	24.045	(0.939)	449128	10.0000	9	
	80 Benzo(b)fluoranthene	252	24.772	24.782	(0.967)	386089	10.0000	9	
	81 Benzo(k)fluoranthene	252	24.825	24.841	(0.969)	349035	10.0000	9	
	82 Benzo(a)pyrene	252	25.477	25.493	(0.995)	353543	10.0000	8	
*	83 Perylene-d12	264	25.610	25.616	(1.000)	1011735	40.0000		
	84 Indeno(1,2,3-cd)pyrene	276	28.522	28.554	(1.114)	372764	10.0000	9	
	85 Dibenz(a,h)anthracene	278	28.602	28.629	(1.117)	368082	10.0000	9	
	86 Benzo(g,h,i)perylene	276	29.403	29.446	(1.148)	370798	10.0000	9	(M)

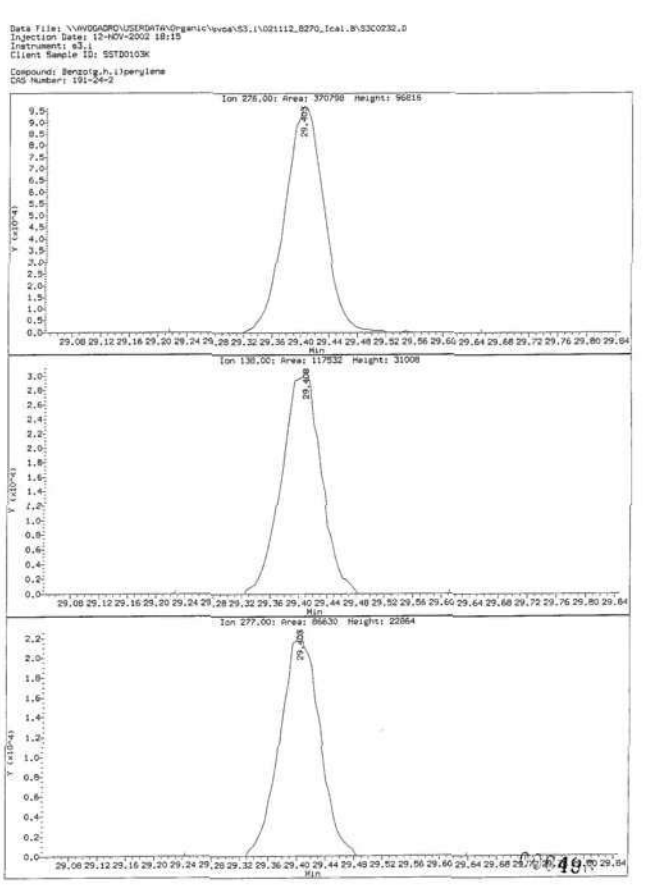
MS peak not integrated properly GE 11/13/02

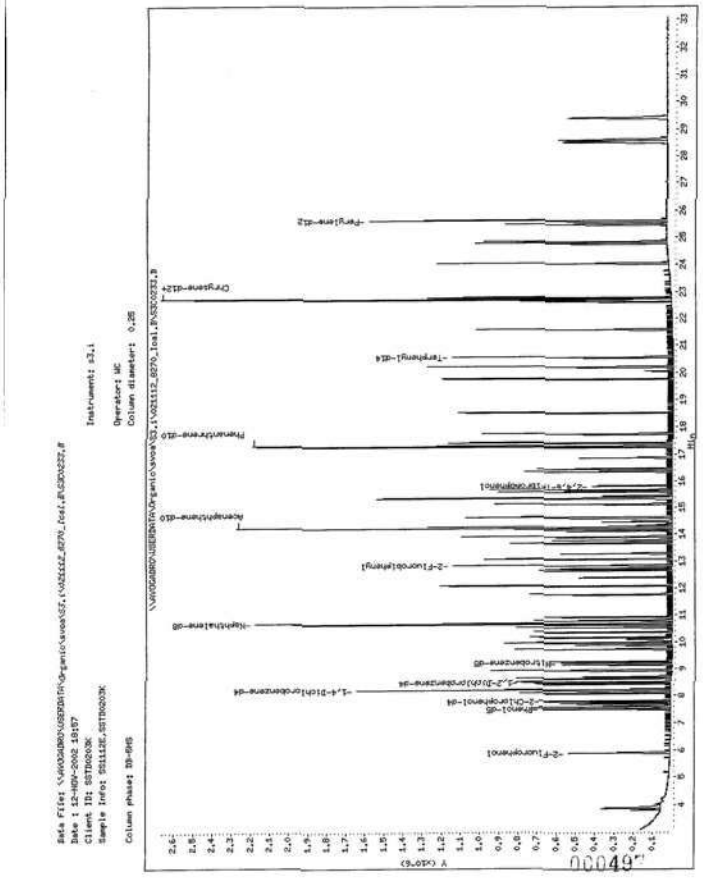
QC Flag Legend

M - Compound response manually integrated.

SMT 11/13/02







Data File: S3C0233.D
Report Date: 13-Nov-2002 11:10

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021112_8270_Ical.B\S3C0233.D
Lab Smp Id: SS1112E — Client Smp ID: SSTD0203K
Inj Date : 12-NOV-2002 18:57
Operator : WC — Inst ID: s3.i
Smp Info : SS1112E,SSTD0203K
Misc Info : 1,2,SSTD020,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021112_8270_Ical.B\S3_8270C.I
Meth Date : 13-Nov-2002 08:59 mtl — Quant Type: ISTD
Cal Date : 12-NOV-2002 18:57 — Cal File: S3C0233.D
Als bottle: 5 — Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE — Compound Sublist: 8270_ALL.sub
Target Version: 4.03
Processing Host: TARGET1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	1 N-Nitrosodimethylamine	74	3.804	3.793	(0.464)	142325	20.0000	19
	2 Pyridine	79	3.873	3.843	(0.472)	331859	20.0000	19
S	3 2-Fluorophenol	112	5.938	5.909	(0.720)	390947	20.0000	20
S	5 Phenol-d5	99	7.495	7.506	(0.913)	366143	20.0000	20
	6 Phenol	94	7.522	7.527	(0.917)	392238	20.0000	20
	7 Aniline	93	7.596	7.603	(0.926)	431555	20.0000	20
	8 bis(2-Chloroethyl)Ether	93	7.709	7.714	(0.939)	311095	20.0000	20
S	9 2-Chlorophenol-d4	132	7.778	7.784	(0.948)	294720	20.0000	20
	10 2-Chlorophenol	128	7.810	7.811	(0.952)	296519	20.0000	20
	11 1,3-Dichlorobenzene	146	8.099	8.099	(0.987)	310190	20.0000	20
*	12 1,4-Dichlorobenzene-d4	152	8.206	8.206	(1.000)	421056	40.0000	
	13 1,4-Dichlorobenzene	146	8.232	8.238	(1.003)	325996	20.0000	20
	15 Benzyl Alcohol	108	8.466	8.452	(1.029)	194587	20.0000	20
S	16 1,2-Dichlorobenzene-d4	152	8.483	8.489	(1.034)	182202	20.0000	19
	16 1,2-Dichlorobenzene	146	8.515	8.516	(1.038)	291923	20.0000	20
	17 2-Methylphenol	108	8.644	8.644	(1.053)	280379	20.0000	20
	18 2,2'-oxybis(1-Chloropropane)	45	8.708	8.713	(1.061)	443496	20.0000	25
	20 4-Methylphenol	108	8.937	8.938	(1.088)	292111	20.0000	20
	19 N-Nitroso-di-n-propylamine	70	8.948	8.959	(1.090)	157427	20.0000	20
	21 Hexachloroethane	117	9.151	9.157	(1.115)	114398	20.0000	19
S	22 Nitrobenzene-d5	82	9.236	9.242	(0.868)	307244	20.0000	20
	23 Nitrobenzene	*77*	*9.274*	*9.280*	*(0.872)*	*324017*	*20.0000*	*20*
	24 Isophorone	82	9.739	9.744	(0.915)	526832	20.0000	20
	25 2-Nitrophenol	139	9.894	9.894	(0.929)	153534	20.0000	19
	26 2,4-Dimethylphenol	107	9.968	9.974	(0.936)	274217	20.0000	20
	27 bis(2-Chloroethoxy)methane	93	10.171	10.177	(0.955)	349334	20.0000	20

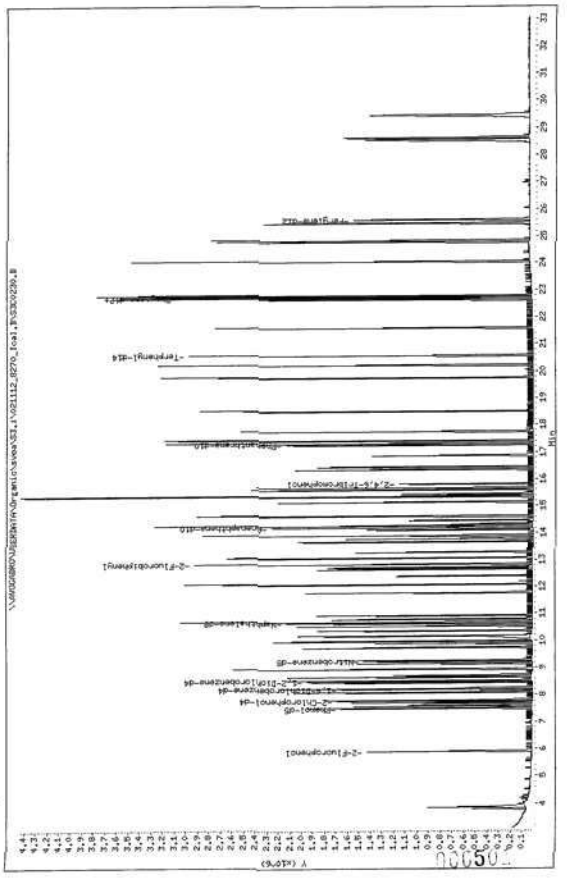
Data File: S3C0233.D
Report Date: 13-Nov-2002 11:10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
28 Benzoic Acid	105	10.102	10.166	(0.949)	180133	20.0000	17
29 2,4-Dichlorophenol	162	10.358	10.364	(0.973)	215253	20.0000	19
30 1,2,4-Trichlorobenzene	180	10.535	10.535	(0.989)	221938	20.0000	19
* 31 Naphthalene-d8	136	10.647	10.653	(1.000)	1402142	40.0000	
32 Naphthalene	128	10.690	10.695	(1.004)	834686	20.0000	20
33 4-Chloroaniline	127	10.796	10.802	(1.014)	328277	20.0000	20
34 Hexachlorobutadiene	225	10.941	10.941	(1.028)	115619	20.0000	19
35 4-Chloro-3-Methylphenol	107	11.769	11.774	(1.105)	239502	20.0000	19
36 2-Methylnaphthalene	142	12.084	12.090	(1.135)	551579	20.0000	20
37 1-Methylnaphthalene	142	12.084	13.090	(1.135)	551579	20.0000	20
38 Hexachlorocyclopentadiene	237	12.399	12.399	(0.873)	114352	20.0000	19
39 2,4,6-Trichlorophenol	196	12.450	12.456	(0.891)	140255	20.0000	18
40 2,4,5-Trichlorophenol	196	12.720	12.720	(0.895)	147551	20.0000	18
$ 41 2-Fluorobiphenyl	172	12.837	12.843	(0.904)	541221	20.0000	19
42 2-Chloronaphthalene	162	13.072	13.072	(0.920)	457101	20.0000	19
43 2-Nitroaniline	65	13.281	13.286	(0.935)	162103	20.0000	19
44 Dimethylphthalate	163	13.671	13.681	(0.962)	519401	20.0000	19
45 2,6-Dinitrotoluene	165	13.788	13.794	(0.971)	124574	20.0000	19
46 Acenaphthylene	152	13.914	13.917	(0.980)	785006	20.0000	20
47 3-Nitroaniline	138	14.119	14.130	(0.994)	144321	20.0000	19
* 48 Acenaphthene-d10	164	14.205	14.210	(1.000)	802604	40.0000	
49 Acenaphthene	153	14.269	14.280	(1.004)	487853	20.0000	19
50 2,4-Dinitrophenol	184	14.338	14.344	(1.009)	44504	20.0000	13
51 4-Nitrophenol	109	14.472	14.477	(1.019)	83317	20.0000	18
52 2,4-Dinitrotoluene	165	14.611	14.616	(1.029)	157419	20.0000	18
53 Dibenzofuran	168	14.427	14.432	(1.030)	672224	20.0000	19
54 Diethylphthalate	149	15.129	15.140	(1.065)	511628	20.0000	19
55 Fluorene	166	15.333	15.338	(1.079)	544215	20.0000	19
56 4-Chlorophenyl-phenylether	204	15.348	15.348	(1.080)	244232	20.0000	18
57 4-Nitroaniline	138	15.369	15.386	(1.082)	139054	20.0000	19
58 4,6-Dinitro-2-methylphenol	198	15.439	15.444	(0.854)	83036	20.0000	16
59 N-Nitrosodiphenylamine	169	15.588	15.594	(0.903)	343919	20.0000	19
$ 60 2,4,6-Tribromophenol	330	15.818	15.824	(0.916)	71767	20.0000	18
61 4-Bromophenyl-phenylether	248	16.352	16.353	(0.947)	140395	20.0000	18
62 Hexachlorobenzene	284	16.448	16.454	(0.953)	146051	20.0000	18
63 Pentachlorophenol	266	16.860	16.865	(0.977)	85494	20.0000	17
* 64 Phenanthrene-d10	188	17.260	17.261	(1.000)	1297634	40.0000	
65 Phenanthrene	178	17.303	17.309	(1.002)	740123	20.0000	20
66 Anthracene	178	17.410	17.414	(1.009)	754119	20.0000	19
67 Carbazole	167	17.747	17.752	(1.028)	670242	20.0000	20
68 Di-n-butylphthalate	149	18.305	18.311	(1.060)	876878	20.0000	20
69 Fluoranthene	202	19.750	19.756	(1.144)	762611	20.0000	19
71 Pyrene	202	20.209	20.215	(0.891)	603445	20.0000	20
$ 72 Terphenyl-d14	244	20.557	20.562	(0.906)	565428	20.0000	19
73 Butylbenzylphthalate	149	21.588	21.588	(0.951)	367143	20.0000	18
74 3,3'-Dichlorobenzidine	252	22.635	22.640	(0.997)	240488	20.0000	18
75 Benzo(a)anthracene	228	22.672	22.678	(0.999)	765516	20.0000	19

Data File: S3C0233.D
Report Date: 13-Nov-2002 11:10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 76 Chrysene-d12	240	22.653	22.659	(1.000)	1372404	40.0000	
78 bis(2-Ethylhexyl)phthalate	149	22.774	22.779	(1.004)	539768	20.0000	19
77 Chrysene	228	22.747	22.752	(1.002)	701509	20.0000	19
70 Benzidine	184	22.693	22.699	(2.764)	10967	20.0000	24
79 Di-n-octylphthalate	149	24.045	24.045	(0.935)	890047	20.0000	19
80 Benzo(b)fluoranthene	252	24.777	24.782	(0.967)	736333	20.0000	18
81 Benzo(k)fluoranthene	252	24.830	24.841	(0.969)	681922	20.0000	19
82 Benzo(a)pyrene	252	25.482	25.493	(0.995)	677832	20.0000	19
* 83 Perylene-d12	264	25.616	25.616	(1.000)	944808	40.0000	
84 Indeno(1,2,3-cd)pyrene	276	28.532	28.554	(1.114)	711935	20.0000	18
85 Dibenzo(a,h)anthracene	278	28.607	28.629	(1.117)	714803	20.0000	18
86 Benzo(g,h,i)perylene	276	29.416	29.446	(1.148)	705884	20.0000	18

SMP 11/13/02



Data File: S3C0230.D
Report Date: 13-Nov-2002 11:10

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021112_8270_Ical.B\S3C0230.D
Lab Smp Id: SS1112B — Client Smp ID: SSTD0503K
Inj Date : 12-NOV-2002 16:50
Operator : WC — Inst ID: s3.i
Smp Info : SS1112B,SSTD0503K
Misc Info : 2,3,SSTD050,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021112_8270_Ical.B\S3_8270C.r
Meth Date : 13-Nov-2002 08:59 mtl — Quant Type: ISTD
Cal Date : 12-NOV-2002 16:50 — Cal File: S3C0230.D
Als bottle: 2 — Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE — Compound Sublist: 8270_ALL.sub
Target Version: 4.03
Processing Host: TARGET1

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
1 N-Nitrosodimethylamine	74	3.793	3.793	(0.462)	447478	50.0000	50
2 Pyridine	79	3.863	3.863	(0.471)	886338	50.0000	50
$ 3 2-Fluorophenol	112	5.909	5.909	(0.720)	757453	50.0000	50
$ 5 Phenol-d5	99	7.506	7.506	(0.915)	950227	50.0000	50
6 Phenol	94	7.527	7.527	(0.917)	1015705	50.0000	50
7 Aniline	93	7.602	7.602	(0.926)	1011319	50.0000	50
8 bis(2-Chloroethyl)Ether	93	7.714	7.714	(0.940)	795115	50.0000	50
$ 9 2-Chlorophenol-d4	132	7.784	7.784	(0.949)	770519	50.0000	50
10 2-Chlorophenol	128	7.811	7.811	(0.952)	768934	50.0000	50
11 1,3-Dichlorobenzene	146	8.099	8.099	(0.987)	881639	50.0000	50
* 12 1,4-Dichlorobenzene-d4	152	8.206	8.206	(1.000)	412139	40.0000	
13 1,4-Dichlorobenzene	146	8.238	8.238	(1.004)	833966	50.0000	50
15 Benzyl Alcohol	108	8.452	8.452	(1.030)	507367	50.0000	50
$ 14 1,2-Dichlorobenzene-d4	152	8.489	8.489	(1.035)	474920	50.0000	50
16 1,2-Dichlorobenzene	146	8.516	8.516	(1.038)	761663	50.0000	50
17 2-Methylphenol	108	8.644	8.644	(1.053)	677323	50.0000	50
18 2,2'-oxybis(1-Chloropropane)	45	8.713	8.713	(1.062)	1120306	50.0000	50
20 4-Methylphenol	108	8.938	8.938	(1.089)	762980	50.0000	50
19 N-Nitroso-di-n-propylamine	70	8.959	8.959	(1.092)	408648	50.0000	50
21 Hexachloroethane	117	9.157	9.157	(1.116)	302801	50.0000	50
$ 22 Nitrobenzene-d5	82	9.242	9.242	(0.868)	793599	50.0000	50
23 Nitrobenzene	77	9.280	9.280	(0.871)	838351	50.0000	50
24 Isophorone	82	9.744	9.744	(0.915)	1357454	50.0000	50
25 2-Nitrophenol	139	9.894	9.894	(0.929)	407141	50.0000	50
26 2,4-Dimethylphenol	107	9.974	9.974	(0.936)	670110	50.0000	50
27 bis(2-Chloroethoxy)methane	93	10.177	10.177	(0.955)	903820	50.0000	50

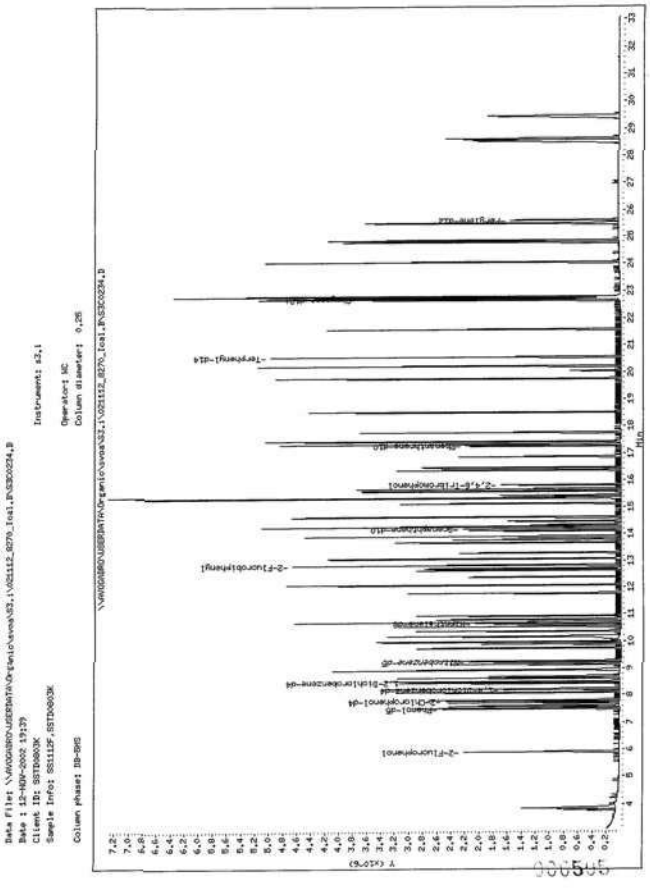
Data File: S3C0230.D
Report Date: 13-Nov-2002 11:10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
28 Benzoic Acid	105	10.166	10.166	(0.954)	557428	50.0000	50
29 2,4-Dichlorophenol	162	10.564	10.564	(0.973)	574326	50.0000	50
30 1,2,4-Trichlorobenzene	180	10.535	10.535	(0.989)	584384	50.0000	50
* 31 Naphthalene-d8	136	10.653	10.653	(1.000)	1668807	40.0000	
32 Naphthalene	128	10.695	10.695	(1.004)	2132441	50.0000	50
33 4-Chloroaniline	127	10.802	10.802	(1.014)	814616	50.0000	50
34 Hexachlorobutadiene	225	10.941	10.941	(1.027)	304481	50.0000	50
35 4-Chloro-3-Methylphenol	107	11.774	11.774	(1.105)	638631	50.0000	50
36 2-Methylnaphthalene	142	12.090	12.090	(1.135)	1433089	50.0000	50
37 1-Methylnapthalene	142	12.090	12.090	(1.135)	1433089	50.0000	50
38 Hexachlorocyclopentadiene	237	12.399	12.399	(0.873)	289441	50.0000	50
39 2,4,6-Trichlorophenol	196	12.656	12.656	(0.891)	384395	50.0000	50
40 2,4,5-Trichlorophenol	196	12.720	12.720	(0.895)	407906	50.0000	50
$ 41 2-Fluorobiphenyl	172	12.843	12.843	(0.904)	1414020	50.0000	50
42 2-Chloronaphthalene	162	13.072	13.072	(0.920)	1204721	50.0000	50
43 2-Nitroaniline	65	13.286	13.286	(0.935)	434106	50.0000	50
44 Dimethylphthalate	163	13.681	13.681	(0.963)	1372530	50.0000	50
45 2,6-Dinitrotoluene	165	13.794	13.794	(0.971)	332726	50.0000	50
46 Acenaphthylene	152	13.917	13.917	(0.979)	2045339	50.0000	50
47 3-Nitroaniline	138	14.130	14.130	(0.994)	377158	50.0000	50
* 48 Acenaphthene-d10	164	14.210	14.210	(1.000)	775881	40.0000	
49 Acenaphthene	153	14.380	14.380	(1.003)	1278383	50.0000	50
50 2,4-Dinitrophenol	184	14.344	14.344	(1.009)	165117	50.0000	50
51 4-Nitrophenol	139	14.477	14.477	(1.019)	181357	50.0000	50
52 2,4-Dinitrotoluene	165	14.616	14.616	(1.029)	431713	50.0000	50
53 Dibenzofuran	168	14.632	14.632	(1.030)	1785019	50.0000	50
54 Diethylphthalate	149	15.140	15.140	(1.065)	1357346	50.0000	50
55 Fluorene	166	15.338	15.338	(1.079)	1475286	50.0000	50
56 4-Chlorophenyl-phenylether	204	15.348	15.348	(1.080)	664543	50.0000	50
57 4-Nitroaniline	138	15.386	15.386	(1.083)	340571	50.0000	50
58 4,6-Dinitro-2-methylphenol	198	15.444	15.444	(0.895)	257469	50.0000	50
59 N-Nitrosodiphenylamine	169	15.594	15.594	(0.903)	965130	50.0000	50
$ 60 2,4,6-Tribromophenol	330	15.824	15.824	(0.917)	201278	50.0000	50
61 4-Bromophenyl-phenylether	248	16.353	16.353	(0.947)	382826	50.0000	50
62 Hexachlorobenzene	284	16.454	16.454	(0.953)	389461	50.0000	50
63 Pentachlorophenol	266	16.865	16.865	(0.977)	257508	50.0000	50
* 64 Phenanthrene-d10	188	17.261	17.261	(1.000)	1276983	40.0000	
65 Phenanthrene	178	17.309	17.309	(1.003)	1948766	50.0000	50
66 Anthracene	178	17.416	17.416	(1.009)	1978702	50.0000	50
67 Carbazole	167	17.752	17.752	(1.028)	1664183	50.0000	50
68 Di-n-butylphthalate	149	18.511	18.511	(1.072)	2344362	50.0000	50
69 Fluoranthene	202	19.756	19.756	(1.145)	2069565	50.0000	50
71 Pyrene	202	20.215	20.215	(0.891)	2147884	50.0000	50
$ 72 Terphenyl-d14	244	20.562	20.562	(0.906)	1540767	50.0000	50
73 Butylbenzylphthalate	149	21.568	21.568	(0.951)	1017231	50.0000	50
74 3,3'-Dichlorobenzidine	252	22.640	22.640	(0.997)	731358	50.0000	50
75 Benzo(a)anthracene	228	22.678	22.678	(0.999)	2053789	50.0000	50

Data File: S3C0230.D
Report Date: 13-Nov-2002 11:10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 76 Chrysene-d12	240	22.699	22.699	(1.000)	1371953	40.0000	
78 bis(2-Ethylhexyl)phthalate	149	22.779	22.779	(1.004)	1535177	50.0000	50
77 Chrysene	228	22.752	22.752	(1.002)	1929530	50.0000	50
70 Benzidine	184	22.699	22.699	(2.766)	10380	50.0000	50
79 Di-n-octylphthalate	149	24.045	24.045	(0.939)	2520563	50.0000	50
80 Benzo(b)fluoranthene	252	24.792	24.792	(0.967)	2016063	50.0000	50
81 Benzo(k)fluoranthene	252	24.841	24.841	(0.970)	1965493	50.0000	50
82 Benzo(a)pyrene	252	25.493	25.493	(0.995)	1852158	50.0000	50
* 83 Perylene-d12	264	25.616	25.616	(1.000)	941725	40.0000	
84 Indeno(1,2,3-cd)pyrene	276	28.554	28.554	(1.115)	2012113	50.0000	50
85 Dibenz(a,h)anthracene	278	28.629	28.629	(1.118)	2007006	50.0000	50
86 Benzo(g,h,i)perylene	276	29.446	29.446	(1.150)	1971978	50.0000	50

11/13/02



Data File: S3C0234.D
Report Date: 13-Nov-2002 11:10

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021112_8270_Ical.B\S3C0234.D
Lab Smp Id: SS1112F
Client Smp ID: SSTD0803K
Inj Date : 12-NOV-2002 19:39
Operator : WC
Inst ID: s3.i
Smp Info : SS1112F,SSTD0803K
Misc Info : 1,4,SSTD080,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021112_8270_Ical.B\S3_8270C.
Meth Date : 13-Nov-2002 08:59 mtl
Quant Type: ISTD
Cal Date : 12-NOV-2002 19:39
Cal File: S3C0234.D
Als bottle: 6
Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: 8270_ALL.sub
Target Version: 4.03
Processing Host: TARGET1

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
1 N-Nitrosodimethylamine	74	3.794	3.793	(0.462)	711549	80.0000	81
2 Pyridine	79	3.858	3.863	(0.470)	1418260	80.0000	81
$ 3 2-Fluorophenol	112	5.910	5.909	(0.720)	1174138	80.0000	79
$ 5 Phenol-d5	99	7.507	7.506	(0.918)	1460610	80.0000	78
6 Phenol	94	7.534	7.537	(0.918)	1545597	80.0000	79
7 Aniline	93	7.603	7.602	(0.926)	1710164	80.0000	80
8 bis(2-Chloroethyl)Ether	93	7.721	7.716	(0.941)	1328448	80.0000	78
$ 9 2-Chlorophenol-d4	132	7.785	7.784	(0.949)	1390841	80.0000	79
10 2-Chlorophenol	128	7.817	7.811	(0.952)	1189907	80.0000	78
11 1,3-Dichlorobenzene	146	8.100	8.099	(0.987)	1250189	80.0000	79
* 13 1,4-Dichlorobenzene-d4	152	8.207	8.206	(1.000)	425971	40.0000	
13 1,4-Dichlorobenzene	146	8.239	8.238	(1.004)	1310703	80.0000	79
15 Benzyl Alcohol	108	8.453	8.452	(1.030)	797904	80.0000	80
$ 14 1,2-Dichlorobenzene-d4	152	8.490	8.489	(1.035)	742651	80.0000	79
14 1,2-Dichlorobenzene	146	8.517	8.516	(1.038)	1187476	80.0000	79
17 2-Methylphenol	108	8.650	8.644	(1.054)	1052203	80.0000	79
18 2,2'-oxybis(1-Chloropropane)	45	8.714	8.713	(1.062)	1710349	80.0000	80
20 4-Methylphenol	108	8.944	8.938	(1.090)	1171432	80.0000	79
19 N-Nitroso-di-n-propylamine	70	8.965	8.959	(1.092)	646403	80.0000	80
21 Hexachloroethane	117	9.158	9.157	(1.116)	676445	80.0000	79
$ 22 Nitrobenzene-d5	82	9.268	9.262	(2.869)	1225116	80.0000	80
23 Nitrobenzene	77	9.286	9.280	(0.972)	1285514	80.0000	80
24 Isophorone	82	9.751	9.744	(0.916)	2084757	80.0000	79
25 2-Nitrophenol	139	9.900	9.896	(0.930)	633042	80.0000	80
26 2,4-Dimethylphenol	107	9.980	9.974	(0.937)	1099326	80.0000	80
27 bis(2-Chloroethoxy)methane	93	10.178	10.177	(0.956)	1401899	80.0000	80

Data File: S3C0234.D
Report Date: 13-Nov-2002 11:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	28 Benzoic Acid	105	10.199	10.186	(0.959)	882448	80.0000	83
	29 2,4-Dichlorophenol	162	10.365	10.364	(0.973)	950922	80.0000	82
	30 1,2,4-Trichlorobenzene	180	10.536	10.535	(0.989)	920139	80.0000	79
*	31 Naphthalene-d8	136	10.648	10.653	(1.000)	1436524	40.0000	
	32 Naphthalene	128	10.696	10.695	(1.004)	3232119	80.0000	79
	33 4-Chloroaniline	127	10.803	10.801	(1.015)	1282341	80.0000	79
	34 Hexachlorobutadiene	225	10.941	10.941	(1.028)	492802	80.0000	78
	35 4-Chloro-3-Methylphenol	107	11.775	11.774	(1.106)	996928	80.0000	80
	36 2-Methylnaphthalene	142	12.090	12.090	(1.135)	2221556	80.0000	80
	37 1-Methylnaphthalene	142	12.090	12.090	(1.135)	2221556	80.0000	80
	38 Hexachlorocyclopentadiene	237	12.400	12.399	(0.873)	517183	80.0000	84
	39 2,4,6-Trichlorophenol	196	12.657	12.656	(0.891)	599963	80.0000	80
	40 2,4,5-Trichlorophenol	196	12.721	12.720	(0.895)	642742	80.0000	80
$	41 2-Fluorobiphenyl	172	12.844	12.843	(0.904)	2203213	80.0000	80
	42 2-Chloronaphthalene	162	13.078	13.072	(0.920)	1866876	80.0000	79
	43 2-Nitroaniline	65	13.293	13.286	(0.935)	669824	80.0000	80
	44 Dimethylphthalate	163	13.682	13.681	(0.963)	2137581	80.0000	80
	45 2,6-Dinitrotoluene	165	13.800	13.794	(0.971)	523315	80.0000	80
	46 Acenaphthylene	152	13.923	13.917	(0.980)	3149304	80.0000	80
	47 3-Nitroaniline	138	14.137	14.130	(0.995)	593569	80.0000	80
*	48 Acenaphthene-d10	164	14.211	14.210	(1.000)	791031	40.0000	
	49 Acenaphthene	153	14.281	14.280	(1.005)	1970683	80.0000	80
	50 2,4-Dinitrophenol	184	14.350	14.344	(1.010)	295430	80.0000	88
	51 4-Nitrophenol	109	14.484	14.477	(1.019)	283605	80.0000	81
	53 2,4-Dinitrotoluene	165	14.623	14.616	(1.029)	682953	80.0000	80
	52 Dibenzofuran	168	14.639	14.632	(1.030)	2770803	80.0000	80
	54 Diethylphthalate	149	15.141	15.140	(1.065)	2104337	80.0000	80
	55 Fluorene	166	15.338	15.338	(1.079)	2306788	80.0000	81
	56 4-Chlorophenyl-phenylether	204	15.355	15.348	(1.080)	1065777	80.0000	81
	57 4-Nitroaniline	138	15.397	15.386	(1.083)	549463	80.0000	78
	58 4,6-Dinitro-2-methylphenol	198	15.456	15.444	(0.895)	422843	80.0000	92
	59 N-Nitrosodiphenylamine	169	15.600	15.594	(0.904)	1497938	80.0000	80
$	60 2,4,6-Tribromophenol	330	15.830	15.824	(0.917)	313731	80.0000	80
	61 4-Bromophenyl-phenylether	248	16.359	16.353	(0.948)	604236	80.0000	79
	62 Hexachlorobenzene	284	16.460	16.454	(0.954)	617157	80.0000	80
	63 Pentachlorophenol	266	16.866	16.865	(0.977)	410992	80.0000	81
*	64 Phenanthrene-d10	188	17.262	17.261	(1.000)	1282861	40.0000	
	65 Phenanthrene	178	17.315	17.309	(1.003)	3008677	80.0000	80
	66 Anthracene	178	17.417	17.416	(1.009)	3104510	80.0000	80
	67 Carbazole	167	17.759	17.752	(1.028)	2506307	80.0000	78
	68 Di-n-butylphthalate	149	18.512	18.511	(1.072)	3562751	80.0000	82
	69 Fluoranthene	202	19.756	19.756	(1.145)	########	##.####	##
	71 Pyrene	202	20.221	20.215	(0.891)	3329346	80.0000	80
$	72 Terphenyl-d14	244	20.563	20.562	(0.906)	2439146	80.0000	81
	73 Butylbenzylphthalate	149	21.594	21.588	(0.951)	1578445	80.0000	80
	74 3,3'-Dichlorobenzidine	253	22.647	22.640	(0.998)	1144720	80.0000	79
	75 Benzo(a)anthracene	228	22.684	22.678	(0.999)	3210077	80.0000	80

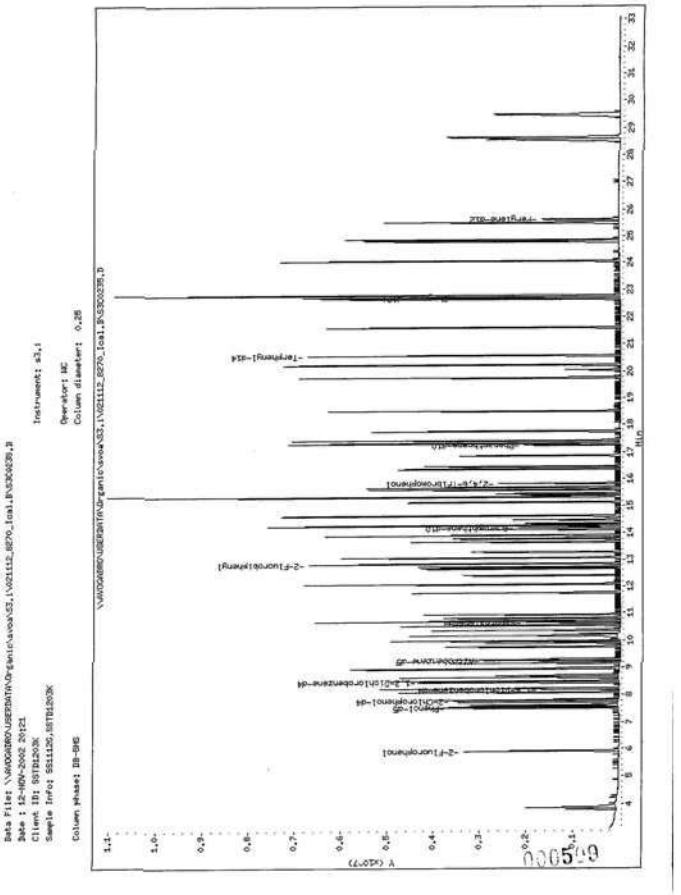
000507

Data File: S3C0234.D
Report Date: 13-Nov-2002 11:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	76 Chrysene-d12	240	22.700	22.699	(1.000)	1408313	40.0000	
	78 bis(2-Ethylhexyl)phthalate	149	22.780	22.779	(1.004)	2388197	80.0000	81
	77 Chrysene	228	22.759	22.752	(1.003)	3023516	80.0000	81
	70 Benzidine	184	22.705	22.699	(2.767)	11382	80.0000	30
	79 Di-n-octylphthalate	149	24.052	24.045	(0.939)	3884752	80.0000	83
	80 Benzo(b)fluoranthene	252	24.769	24.762	(0.967)	3123517	80.0000	79
	81 Benzo(k)fluoranthene	252	24.847	24.841	(0.970)	2852526	80.0000	80
	82 Benzo(a)pyrene	252	25.499	25.493	(0.995)	2898694	80.0000	80
*	83 Perylene-d12	264	25.622	25.616	(1.000)	965884	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	28.571	28.554	(1.115)	3155810	80.0000	80
	85 Dibenzo(a,h)anthracene	278	28.640	28.629	(1.118)	3094554	80.0000	80
	86 Benzo(g,h,i)perylene	276	29.468	29.446	(1.150)	3001535	80.0000	77

SWT 11/13/02

000508



000509

Data File: S3C0235.D
Report Date: 13-Nov-2002 11:10

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021112_8270_Ical.B\S3C0235.D
Lab Smp Id: SS1112G
Client Smp ID: SSTD1203K
Inj Date : 12-NOV-2002 20:21
Operator : WC
Inst ID: s3.i
Smp Info : SS1112G,SSTD1203K
Misc Info : 1,5,SSTD120,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021112_8270_Ical.B\S3_8270C.
Meth Date : 13-Nov-2002 08:59 mtl
Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21
Cal File: S3C0235.D
Als bottle: 7
Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: 8270_ALL.sub
Target Version: 4.03
Processing Host: TARGET1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	1 N-Nitrosodimethylamine	74	3.798	3.793	(0.463)	1059657	120.000	130
	2 Pyridine	79	3.857	3.863	(0.470)	2111299	120.000	120
$	3 2-Fluorophenol	112	5.914	5.909	(0.721)	1737905	120.000	120
$	5 Phenol-d5	99	7.516	7.506	(0.916)	2149845	120.000	120
	6 Phenol	94	7.543	7.527	(0.919)	2296193	120.000	120
	7 Aniline	93	7.613	7.603	(0.928)	1503393	120.000	120
	8 bis(2-Chloroethyl)Ether	93	7.725	7.714	(0.941)	1808821	120.000	120
$	9 2-Chlorophenol-d4	132	7.789	7.784	(0.949)	1783793	120.000	120
	10 2-Chlorophenol	128	7.821	7.811	(0.953)	1767736	120.000	120
	11 1,3-Dichlorobenzene	146	8.104	8.099	(0.988)	1658283	120.000	120
*	12 1,4-Dichlorobenzene-d4	152	8.206	8.206	(1.000)	423192	40.0000	
	13 1,4-Dichlorobenzene	146	8.238	8.238	(1.004)	1951213	120.000	120
	15 Benzyl Alcohol	108	8.462	8.453	(1.031)	1186732	120.000	120
$	14 1,2-Dichlorobenzene-d4	152	8.494	8.489	(1.035)	1105867	120.000	120
	16 1,2-Dichlorobenzene	146	8.521	8.516	(1.038)	1770795	120.000	120
	17 2-Methylphenol	108	8.654	8.644	(1.055)	1945379	120.000	120
	18 2,2'-oxybis(1-Chloropropane)	45	8.718	8.713	(1.063)	2460745	130.000	130
	20 4-Methylphenol	108	8.953	8.938	(1.091)	1726402	120.000	130
	19 N-Nitroso-di-n-propylamine	70	8.969	8.959	(1.093)	954276	120.000	120
	21 Hexachloroethane	117	9.156	9.157	(1.116)	702421	120.000	120
$	23 Nitrobenzene-d5	82	9.253	9.242	(0.669)	1806175	120.000	120
	23 Nitrobenzene	77	9.290	9.280	(0.672)	1891153	120.000	120
	24 Isophorone	82	9.760	9.744	(0.916)	3071996	120.000	120
	25 2-Nitrophenol	139	9.904	9.894	(0.930)	955715	120.000	120
	26 2,4-Dimethylphenol	107	9.984	9.974	(0.937)	1631471	120.000	120
	27 bis(2-Chloroethoxy)methane	93	10.187	10.177	(0.956)	2075423	120.000	120

000510

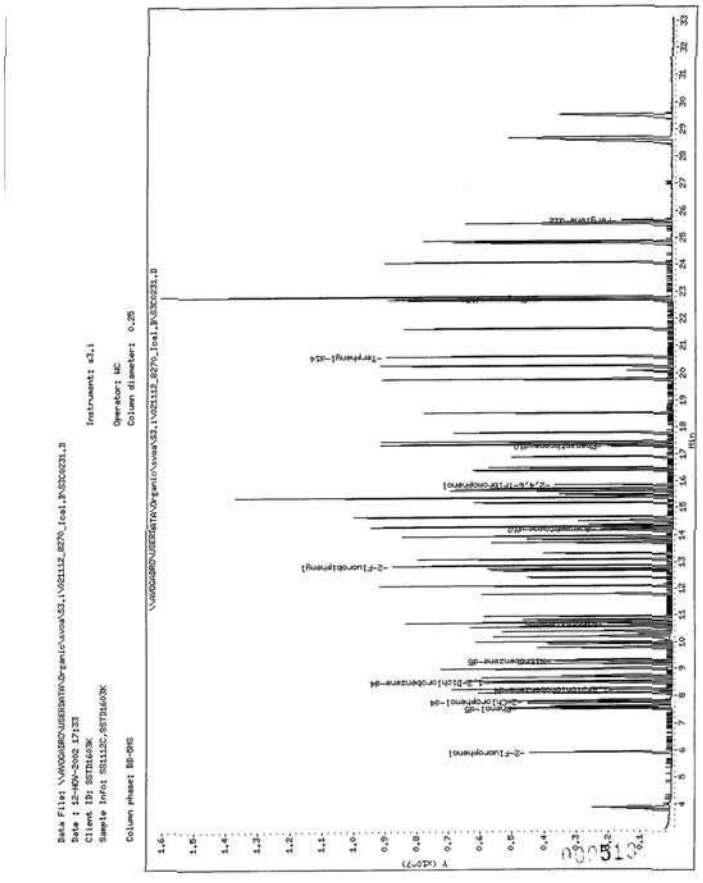
Data File: S3C0235.D
Report Date: 13-Nov-2002 11:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	28 Benzoic Acid	105	10.141	10.146	(0.961)	1313619	120.000	120
	29 2,4-Dichlorophenol	*162*	*10.374*	*10.384*	*(0.974)*	*1332580*	*120.000*	120
	30 1,2,4-Trichlorobenzene	180	10.540	10.535	(0.989)	1382858	120.000	120
*	31 Naphthalene-d8	136	10.653	10.653	(1.000)	1442074	40.0000	
	32 Naphthalene	128	10.700	10.695	(1.004)	4667254	120.000	120
	33 4-Chloroaniline	127	10.807	10.802	(1.015)	1911892	120.000	120
	34 Hexachlorobutadiene	225	10.941	10.941	(1.027)	733631	120.000	120
	35 4-Chloro-3-Methylphenol	107	11.779	11.774	(1.106)	1490045	120.000	120
	36 2-Methylnaphthalene	142	12.095	12.090	(1.135)	3244689	120.000	120
	37 1-Methylnaphthalene	142	12.095	12.090	(1.135)	3244689	120.000	120
	38 Hexachlorocyclopentadiene	237	12.404	12.399	(0.875)	761838	120.000	130
	39 2,4,6-Trichlorophenol	196	12.661	12.656	(0.891)	914158	120.000	120
	40 2,4,5-Trichlorophenol	196	12.735	12.730	(0.895)	974769	120.000	120
$	41 2-Fluorobiphenyl	172	12.848	12.843	(0.904)	3266906	120.000	120
	42 2-Chloronaphthalene	162	13.089	13.072	(0.921)	2782409	120.000	120
	43 2-Nitroaniline	65	13.287	13.286	(0.936)	998138	120.000	120
	44 Dimethylphthalate	163	13.692	13.681	(0.964)	3188855	120.000	120
	45 2,6-Dinitrotoluene	165	13.809	13.794	(0.972)	798196	120.000	120
	46 Acenaphthylene	152	13.927	13.917	(0.980)	4548057	120.000	120
	47 3-Nitroaniline	138	14.146	14.130	(0.995)	888713	120.000	120
*	48 Acenaphthene-d10	164	14.210	14.210	(1.000)	781826	40.0000	
	49 Acenaphthene	153	14.285	14.285	(1.005)	2906593	120.000	120
	50 2,4-Dinitrophenol	184	14.394	14.344	(1.010)	485861	120.000	140
	51 4-Nitrophenol	109	14.493	14.477	(1.020)	425768	120.000	120
	52 2,4-Dinitrotoluene	165	14.627	14.616	(1.029)	1053077	120.000	120
	53 Dibenzofuran	168	14.643	14.632	(1.030)	4117382	120.000	120
	54 Diethylphthalate	149	15.145	15.140	(1.066)	3132323	120.000	120
	55 Fluorene	166	15.343	15.338	(1.080)	3430129	120.000	120
	56 4-Chlorophenyl-phenylether	204	15.353	15.348	(1.080)	1457645	120.000	120
	57 4-Nitroaniline	138	15.412	15.386	(1.085)	837345	120.000	120
	58 4,6-Dinitro-2-methylphenol	198	15.465	15.444	(0.896)	664732	120.000	130
	59 N-Nitrosodiphenylamine	169	15.604	15.594	(0.904)	2240961	120.000	120
$	60 2,4,6-Tribromophenol	330	15.834	15.824	(0.917)	485340	120.000	120
	61 4-Bromophenyl-phenylether	248	16.363	16.353	(0.949)	934105	120.000	120
	62 Hexachlorobenzene	284	16.464	16.454	(0.954)	946349	120.000	120
	63 Pentachlorophenol	266	16.870	16.865	(0.977)	646387	120.000	130
*	64 Phenanthrene-d10	188	17.260	17.241	(1.000)	1264131	40.0000	
	65 Phenanthrene	178	17.319	17.309	(1.003)	4429840	120.000	120
	66 Anthracene	178	17.426	17.416	(1.010)	4535793	120.000	120
	67 Carbazole	167	17.767	17.752	(1.029)	3652083	120.000	120
	68 Di-n-butylphthalate	149	18.916	18.911	(1.073)	8217583	120.000	120
	69 Fluoranthene	202	19.766	19.756	(1.145)	4723309	120.000	120
	71 Pyrene	202	20.223	20.215	(0.891)	4927800	120.000	120
$	72 Terphenyl-d14	244	20.567	20.562	(0.906)	3450979	120.000	120
	73 Butylbenzylphthalate	149	21.598	21.588	(0.951)	2389996	120.000	120
	74 3,3'-Dichlorobenzidine	252	22.651	22.640	(0.997)	1751495	120.000	130
	75 Benzo(a)anthracene	228	22.688	22.678	(0.999)	4813997	120.000	120

Data File: S3C0235.D
Report Date: 13-Nov-2002 11:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	76 Chrysene-d12	240	22.709	22.699	(1.000)	1433955	40.0000	
	78 bis(2-Ethylhexyl)phthalate	149	22.764	22.779	(1.003)	3635476	*150.000*	*150*
	77 Chrysene	228	22.768	22.752	(1.003)	4558417	120.000	120
	79 Benzidine	184	22.704	22.699	(2.767)	12347	120.000	38
	79 Di-n-octylphthalate	149	24.650	24.645	(0.933)	5628424	120.000	120
	80 Benzo(b)fluoranthene	252	24.798	24.791	(0.948)	4739668	120.000	120
	81 Benzo(k)fluoranthene	252	24.857	24.841	(0.970)	4336748	120.000	120
	82 Benzo(a)pyrene	252	25.514	25.493	(0.996)	4344977	120.000	120
*	83 Perylene-d12	264	25.624	25.614	(1.000)	950720	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	28.586	28.554	(1.115)	4715852	120.000	120
	85 Dibenzo(a,h)anthracene	278	28.641	28.629	(1.118)	4675165	120.000	120
	86 Benzo(g,h,i)perylene	276	29.489	29.446	(1.151)	4510067	120.000	120

SMR 11/13/02



Data File: S3C0231.D
Report Date: 13-Nov-2002 11:10

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021112_8270_Ical.B\S3C0231.D
Lab Smp Id: SS1112C Client Smp ID: SSTD1603K
Inj Date : 12-NOV-2002 17:33
Operator : WC Inst ID: s3.i
Smp Info : SS1112C,SSTD1603K
Misc Info : 1,6,SSTD160,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021112_8270_Ical.B\S3_8270C.
Meth Date : 13-Nov-2002 08:59 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 17:33 Cal File: S3C0231.D
Als bottle: 3 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270_ALL.sub
Target Version: 4.03
Processing Host: TARGET1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	1 N-Nitrosodimethylamine	74	3.802	3.793	(0.463)	1651841	160.000	160
	2 Pyridine	79	3.855	3.863	(0.470)	2841700	160.000	160
$	3 2-Fluorophenol	112	5.917	5.909	(0.721)	2354018	160.000	150
$	5 Phenol-d5	99	7.525	7.506	(0.917)	2899202	160.000	150
	6 Phenol	94	7.552	7.527	(0.920)	3067026	160.000	150
	7 Aniline	93	7.616	7.602	(0.928)	3374933	160.000	160
	8 bis(2-Chloroethyl)Ether	93	7.733	7.714	(0.942)	2407236	160.000	150
$	9 2-Chlorophenol-d4	132	7.798	7.784	(0.950)	2407810	160.000	150
	10 2-Chlorophenol	128	7.824	7.811	(0.953)	2364152	160.000	150
	11 1,3-Dichlorobenzene	146	8.107	8.099	(0.988)	2501172	160.000	150
*	12 1,4-Dichlorobenzene-d4	152	8.208	8.206	(1.000)	429868	40.0000	
	13 1,4-Dichlorobenzene	146	8.241	8.238	(1.004)	2605500	160.000	150
	15 Benzyl Alcohol	108	8.471	8.452	(1.032)	1624609	160.000	160
$	14 1,2-Dichlorobenzene-d4	152	8.497	8.489	(1.035)	1498982	160.000	160
	16 1,2-Dichlorobenzene	146	8.524	8.516	(1.038)	2373499	160.000	150
	17 2-Methylphenol	108	8.658	8.644	(1.055)	2068398	160.000	150
	18 2,2'-oxybis(1-Chloropropane)	45	8.722	8.713	(1.062)	3173465	160.000	150
	20 4-Methylphenol	108	8.963	8.938	(1.092)	2304469	160.000	150
	19 N-Nitroso-di-n-propylamine	70	8.983	8.959	(1.094)	1370307	160.000	150
	21 Hexachloroethane	117	9.160	9.157	(1.116)	949983	160.000	160
$	22 Nitrobenzene-d5	82	9.256	9.242	(0.969)	2400635	160.000	160
	23 Nitrobenzene	77	9.289	9.280	(0.973)	2484601	160.000	150
	24 Isophorone	82	9.749	9.744	(0.917)	4072757	160.000	160
	25 2-Nitrophenol	139	9.908	9.894	(0.930)	1299626	160.000	160(A)
	26 2,4-Dimethylphenol	107	9.993	9.976	(0.938)	2205187	160.000	160(A)
	27 bis(2-Chloroethoxy)methane	93	10.191	10.177	(0.956)	2734379	160.000	160

Data File: S3C0231.D
Report Date: 13-Nov-2002 11:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	28 Benzoic Acid	105	10.271	10.166	(0.964)	1825228	160.000	160(A)
	29 2,4-Dichlorophenol	162	10.378	10.344	(0.974)	1828941	160.000	160(A)
	30 1,2,4-Trichlorobensene	180	10.543	10.335	(0.989)	1900433	160.000	160(A)
*	31 Naphthalene-d8	136	10.656	10.653	(1.000)	1443537	40.0000	
	32 Naphthalene	128	10.704	10.695	(1.004)	5395207	160.000	150
	33 4-Chloroaniline	*127*	*10.824*	*10.802*	*(2.025)*	*2588885*	*160.000*	*160*
	34 Hexachlorobutadiene	225	10.944	10.941	(1.027)	1018157	160.000	160(A)
	35 4-Chloro-3-Methylphenol	107	11.783	11.774	(1.106)	2011859	160.000	160
	36 2-Methylnaphthalene	142	13.098	13.090	(1.135)	4377446	160.000	150
	37 1-Methylnapthalene	142	13.098	13.090	(1.135)	4377446	160.000	150
	38 Hexachlorocyclopentadiene	237	12.408	12.399	(0.873)	1084805	160.000	170(A)
	39 2,4,6-Trichlorophenol	196	12.664	12.656	(0.891)	1269466	160.000	160(A)
	40 2,4,5-Trichlorophenol	196	12.734	12.720	(0.896)	1356930	160.000	160(A)
$	41 2-Fluorobiphenyl	172	12.851	12.843	(0.904)	4345490	160.000	160
	42 2-Chloronaphthalene	162	13.086	13.072	(0.921)	3751308	160.000	160
	43 2-Nitroaniline	65	13.305	13.286	(0.936)	1336571	160.000	160
	44 Dimethylphthalate	163	13.695	13.681	(0.964)	4242609	160.000	160
	45 2,6-Dinitrotoluene	165	13.818	13.794	(0.972)	1084356	160.000	160(A)
	46 Acenaphthylene	152	13.930	13.917	(0.980)	5953387	160.000	150
	47 3-Nitroaniline	138	14.155	14.130	(0.996)	1215020	160.000	160
*	48 Acenaphthene-d10	164	14.213	14.210	(1.000)	786608	40.0000	
	49 Acenaphthene	153	14.288	14.280	(1.005)	3846623	160.000	150
	50 2,4-Dinitrophenol	184	14.363	14.344	(1.011)	473566	160.000	180(A)
	51 4-Nitrophenol	109	14.507	14.477	(1.021)	580018	160.000	160
	53 2,4-Dinitrotoluene	165	14.635	14.616	(1.030)	1465292	160.000	160(A)
	52 Dibenzofuran	168	14.646	14.632	(1.030)	5473285	160.000	160
	54 Diethylphthalate	149	15.154	15.140	(1.066)	4224443	160.000	160
	55 Fluorene	166	15.351	15.338	(1.080)	4473024	160.000	150
	56 4-Chlorophenyl-phenylether	204	15.362	15.348	(1.081)	2243190	160.000	160(A)
	57 4-Nitroaniline	138	15.426	15.386	(1.085)	1130313	160.000	160
	58 4,6-Dinitro-2-methylphenol	198	15.474	15.444	(0.896)	919314	160.000	170(A)
	59 N-Nitrosodiphenylamine	169	15.613	15.594	(0.906)	3041338	160.000	160
$	60 2,4,6-Tribromophenol	330	15.843	15.824	(0.918)	692776	160.000	160(A)
	61 4-Bromophenyl-phenylether	248	16.366	16.353	(0.948)	1322254	160.000	170(A)
	62 Hexachlorobenzene	284	16.468	16.454	(0.954)	1333182	160.000	160(A)
	63 Pentachlorophenol	266	16.874	16.865	(0.977)	921802	160.000	170(A)
*	64 Phenanthrene-d10	188	17.264	17.261	(1.000)	1277432	40.0000	
	65 Phenanthrene	178	17.323	17.309	(1.003)	5842577	160.000	150
	66 Anthracene	178	17.429	17.416	(1.010)	5933334	160.000	160
	67 Carbazole	167	17.746	17.752	(1.029)	4913206	160.000	150
	68 Di-n-butylphthalate	149	18.519	18.521	(1.073)	6771886	160.000	150
	69 Fluoranthene	202	19.769	19.756	(1.145)	6263230	160.000	160
	71 Pyrene	202	20.234	20.215	(0.891)	6537856	160.000	150
$	72 Terphenyl-d14	244	20.571	20.562	(0.906)	4923144	160.000	150
	73 Butylbenzylphthalate	149	21.602	21.588	(0.951)	3255791	160.000	150
	74 3,3'-Dichlorobenzidine	252	22.659	22.640	(0.998)	2566413	160.000	160(A)
	75 Benzo(a)anthracene	228	22.697	22.678	(0.999)	6613879	160.000	150

Data File: S3C0231.D
Report Date: 13-Nov-2002 11:10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	76 Chrysene-d12	240	22.713	22.699	(1.000)	1478588	40.0000	
	78 bis(2-Ethylhexyl)phthalate	149	22.788	22.779	(1.003)	4866138	160.000	150
	77 Chrysene	228	22.771	22.752	(1.003)	6042057	160.000	150
	70 Benzidine	184	22.713	22.699	(2.767)	11467	160.000	80
	79 Di-n-octylphthalate	149	24.059	24.045	(0.939)	7333581	160.000	150
	80 Benzo(b)fluoranthene	*252*	*26.807*	*26.782*	*(0.968)*	*6671007*	*160.000*	*160*
	81 Benzo(k)fluoranthene	252	26.871	26.841	(0.971)	5736549	160.000	150
	82 Benzo(a)pyrene	252	25.523	25.493	(0.996)	6028064	160.000	160
*	83 Perylene-d12	264	25.624	25.616	(1.000)	994984	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	28.600	28.554	(1.116)	6875376	160.000	160(A)
	85 Dibenz(a,h)anthracene	278	28.680	28.629	(1.119)	6858846	160.000	160
	86 Benzo(g,h,i)perylene	276	29.519	29.466	(1.152)	6303582	160.000	160

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

11/13/02

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: S3 Calibration Date: 11/13/02 Time: 1147

Lab File ID: S3C0257 Init. Calib. Date(s): 11/12/02 11/12/02

Init. Calib. Times: 1650 2021

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.854	1.953	0.050	5.3	20.0
bis(2-Chloroethyl)Ether	1.462	1.523	0.050	4.2	100
2-Chlorophenol	1.418	1.478	0.050	4.2	100
1,3-Dichlorobenzene	1.483	1.559	0.050	5.1	100
1,4-Dichlorobenzene	1.560	1.639	0.050	5.1	20.0
1,2-Dichlorobenzene	1.411	1.468	0.050	4.0	100
2-Methylphenol	1.240	1.301	0.050	4.9	100
2,2'-oxybis(1-Chloropropane)	2.016	2.104	0.050	4.4	100
4-Methylphenol	1.390	1.472	0.050	5.9	100
N-Nitroso-di-n-propylamine	0.759	0.796	0.050	4.9	100
Hexachloroethane	0.563	0.583	0.050	3.6	100
Nitrobenzene	0.442	0.462	0.050	4.5	100
Isophorone	0.719	0.754	0.050	4.9	100
2-Nitrophenol	0.219	0.230	0.050	5.0	20.0
2,4-Dimethylphenol	0.375	0.381	0.050	1.6	100
2,4-Dichlorophenol	0.310	0.322	0.050	3.9	20.0
1,2,4-Trichlorobenzene	0.318	0.327	0.050	2.8	100
Naphthalene	1.108	1.182	0.050	6.7	100
4-Chloroaniline	0.444	0.461	0.050	3.8	100
bis(2-Chloroethoxy)methane	0.481	0.502	0.050	4.4	100
Hexachlorobutadiene	0.167	0.170	0.050	1.8	20.0
4-Chloro-3-Methylphenol	0.342	0.356	0.050	4.1	20.0
2-Methylnaphthalene	0.760	0.798	0.050	5.0	100
Hexachlorocyclopentadiene	0.314	0.318	0.050	1.3	100
2,4,6-Trichlorophenol	0.383	0.399	0.050	4.2	100
2,4,5-Trichlorophenol	0.408	0.422	0.050	3.4	100
2-Chloronaphthalene	1.189	1.237	0.050	4.0	100
2-Nitroaniline	0.425	0.444	0.050	4.5	100
Dimethylphthalate	1.354	1.424	0.050	5.2	100
Acenaphthylene	1.979	2.109	0.050	6.6	100
2,6-Dinitrotoluene	0.332	0.347	0.050	4.5	100
3-Nitroaniline	0.378	0.385	0.050	1.8	100
Acenaphthene	1.248	1.314	0.050	5.3	20.0
2,4-Dinitrophenol	0.178	0.159	0.050	-10.7	100
4-Nitrophenol	0.178	0.182	0.050	2.2	100
Dibenzofuran	1.751	1.852	0.050	5.8	100
2,4-Dinitrotoluene	0.436	0.453	0.050	3.9	100

All other compounds must meet a minimum RRF of 0.010.

FORM VII SV-1 OLM03.0

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: S3 Calibration Date: 11/13/02 Time: 1147

Lab File ID: S3C0257 Init. Calib. Date(s): 11/12/02 11/12/02

Init. Calib. Times: 1650 2021

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.336	1.396	0.050	4.5	100
4-Chlorophenyl-phenylether	0.676	0.691	0.050	2.2	100
Fluorene	1.443	1.510	0.050	4.6	100
4-Nitroaniline	0.357	0.343	0.050	-3.9	100
4,6-Dinitro-2-methylphenol	0.162	0.155	0.050	-4.3	100
N-Nitrosodiphenylamine(1)	0.588	0.607	0.050	3.2	20.0
4-Bromophenyl-phenylether	0.240	0.246	0.050	2.5	100
Hexachlorobenzene	0.243	0.251	0.050	3.3	100
Pentachlorophenol	0.161	0.160	0.050	-0.6	20.0
Phenanthrene	1.170	1.213	0.050	3.7	100
Anthracene	1.199	1.251	0.050	4.3	100
Carbazole	0.995	1.042	0.050	4.7	100
Di-n-butylphthalate	1.380	1.470	0.050	6.5	100
Fluoranthene	1.237	1.288	0.050	4.1	20.0
Pyrene	1.176	1.255	0.050	6.7	100
Butylbenzylphthalate	0.558	0.594	0.050	6.4	100
3,3'-Dichlorobenzidine	0.412	0.436	0.050	5.8	100
Benzo(a)anthracene	1.142	1.203	0.050	5.3	100
Chrysene	1.064	1.108	0.050	4.1	100
bis(2-Ethylhexyl)phthalate	0.837	0.888	0.050	6.1	100
Di-n-octylphthalate	1.953	2.090	0.050	7.0	20.0
Benzo(b)fluoranthene	1.642	1.665	0.050	1.4	100
Benzo(k)fluoranthene	1.473	1.523	0.050	3.4	100
Benzo(a)pyrene	1.505	1.538	0.050	2.2	20.0
Indeno(1,2,3-cd)pyrene	1.643	1.741	0.050	6.0	100
Dibenzo(a,h)anthracene	1.613	1.656	0.050	2.7	100
Benzo(g,h,i)perylene	1.575	1.626	0.050	3.2	100
Nitrobenzene-d5	0.421	0.442	0.050	5.0	100
2-Fluorobiphenyl	1.396	1.462	0.050	4.7	100
Terphenyl-d14	0.856	0.905	0.050	5.7	100
Phenol-d5	1.739	1.825	0.050	4.9	100
2-Fluorophenol	1.392	1.469	0.050	5.5	100
2,4,6-Tribromophenol	0.124	0.129	0.050	4.0	100
2-Chlorophenol-d4	1.421	1.491	0.050	4.9	100
1,2-Dichlorobenzene-d4	0.883	0.916	0.050	3.7	100

(1) Cannot be separated from Diphenylamine

All other compounds must meet a minimum RRF of 0.010.

FORM VII SV-2 OLM03.0

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: S3 Calibration Date: 11/18/02 Time: 1110

Lab File ID: S3C0325 Init. Calib. Date(s): 11/12/02 11/12/02

Init. Calib. Times: 1650 2021

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.854	1.858	0.050	0.2	20.0
bis(2-Chloroethyl)Ether	1.462	1.509	0.050	3.2	100
2-Chlorophenol	1.418	1.444	0.050	1.8	100
1,3-Dichlorobenzene	1.483	1.573	0.050	6.1	100
1,4-Dichlorobenzene	1.560	1.638	0.050	5.0	20.0
1,2-Dichlorobenzene	1.411	1.514	0.050	7.3	100
2-Methylphenol	1.240	1.275	0.050	2.8	100
2,2'-oxybis(1-Chloropropane)	2.016	2.096	0.050	4.0	100
4-Methylphenol	1.390	1.411	0.050	1.5	100
N-Nitroso-di-n-propylamine	0.759	0.812	0.050	7.0	100
Hexachloroethane	0.563	0.617	0.050	9.6	100
Nitrobenzene	0.442	0.436	0.050	-1.4	100
Isophorone	0.719	0.761	0.050	5.8	100
2-Nitrophenol	0.219	0.219	0.050	0.0	20.0
2,4-Dimethylphenol	0.375	0.394	0.050	5.1	100
2,4-Dichlorophenol	0.310	0.317	0.050	2.2	20.0
1,2,4-Trichlorobenzene	0.318	0.336	0.050	5.7	100
Naphthalene	1.108	1.169	0.050	5.5	100
4-Chloroaniline	0.444	0.400	0.050	-9.9	100
bis(2-Chloroethoxy)methane	*0.481*	*0.483*	*0.050*	*0.4*	*100*
Hexachlorobutadiene	0.167	0.184	0.050	10.2	20.0
4-Chloro-3-Methylphenol	0.342	0.347	0.050	1.5	20.0
2-Methylnaphthalene	0.760	0.788	0.050	3.7	100
Hexachlorocyclopentadiene	0.314	0.302	0.050	-3.8	100
2,4,6-Trichlorophenol	0.383	0.390	0.050	1.8	100
2,4,5-Trichlorophenol	0.408	0.410	0.050	0.5	100
2-Chloronaphthalene	1.189	1.169	0.050	-1.7	100
2-Nitroaniline	0.425	0.392	0.050	-7.8	100
Dimethylphthalate	1.354	1.406	0.050	3.8	100
Acenaphthylene	1.979	2.042	0.050	3.2	100
2,6-Dinitrotoluene	0.332	0.334	0.050	0.6	100
3-Nitroaniline	0.378	0.335	0.050	-11.4	100
Acenaphthene	1.248	1.282	0.050	2.7	20.0
2,4-Dinitrophenol	0.178	0.174	0.050	-2.2	100
4-Nitrophenol	0.178	0.163	0.050	-8.4	100
Dibenzofuran	1.751	1.749	0.050	-0.1	100
2,4-Dinitrotoluene	0.436	0.431	0.050	-1.1	100

All other compounds must meet a minimum RRF of 0.010.

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: S3 Calibration Date: 11/18/02 Time: 1110

Lab File ID: S3C0325 Init. Calib. Date(s): 11/12/02 11/12/02

Init. Calib. Times: 1650 2021

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.336	1.388	0.050	3.9	100
4-Chlorophenyl-phenylether	0.676	0.650	0.050	-3.8	100
Fluorene	1.443	1.411	0.050	-2.2	100
4-Nitroaniline	0.357	0.310	0.050	-13.2	100
4,6-Dinitro-2-methylphenol	0.162	0.165	0.050	1.8	100
N-Nitrosodiphenylamine(1)	0.588	0.579	0.050	-1.5	20.0
4-Bromophenyl-phenylether	0.240	0.248	0.050	3.3	100
Hexachlorobenzene	0.243	0.264	0.050	8.6	100
Pentachlorophenol	0.161	0.159	0.050	-1.2	20.0
Phenanthrene	1.170	1.206	0.050	3.1	100
Anthracene	1.199	1.224	0.050	2.1	100
Carbazole	0.995	0.960	0.050	-3.5	100
Di-n-butylphthalate	1.380	1.513	0.050	9.6	100
Fluoranthene	1.237	1.293	0.050	4.5	20.0
Pyrene	1.176	1.235	0.050	5.0	100
Butylbenzylphthalate	0.558	0.589	0.050	5.6	100
3,3'-Dichlorobenzidine	0.412	0.419	0.050	1.7	100
Benzo(a)anthracene	1.142	1.203	0.050	5.3	100
Chrysene	1.064	1.083	0.050	1.8	100
bis(2-Ethylhexyl)phthalate	0.837	0.872	0.050	4.2	100
Di-n-octylphthalate	1.953	2.061	0.050	5.5	20.0
Benzo(b)fluoranthene	1.642	1.661	0.050	1.2	100
Benzo(k)fluoranthene	1.473	1.498	0.050	1.7	100
Benzo(a)pyrene	1.505	1.523	0.050	1.2	20.0
Indeno(1,2,3-cd)pyrene	1.643	1.533	0.050	-6.7	100
Dibenzo(a,h)anthracene	1.613	1.511	0.050	-6.3	100
Benzo(g,h,i)perylene	1.575	1.501	0.050	-4.7	100
Nitrobenzene-d5	0.421	0.413	0.050	-1.9	100
2-Fluorobiphenyl	1.396	1.418	0.050	1.6	100
Terphenyl-d14	0.856	0.880	0.050	2.8	100
Phenol-d5	1.739	1.726	0.050	-0.7	100
2-Fluorophenol	1.392	1.415	0.050	1.6	100
2,4,6-Tribromophenol	0.124	0.135	0.050	8.9	100
2-Chlorophenol-d4	1.421	1.482	0.050	4.3	100
1,2-Dichlorobenzene-d4	0.883	0.957	0.050	8.4	100

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: S3 Calibration Date: 11/19/02 Time: 1047

Lab File ID: S3C0345 Init. Calib. Date(s): 11/12/02 11/12/02

Init. Calib. Times: 1650 2021

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.854	1.859	0.050	0.3	20.0
bis(2-Chloroethyl)Ether	1.462	1.475	0.050	0.9	100
2-Chlorophenol	1.418	1.458	0.050	2.8	100
1,3-Dichlorobenzene	1.483	1.554	0.050	4.8	100
1,4-Dichlorobenzene	1.560	1.628	0.050	4.4	20.0
1,2-Dichlorobenzene	1.411	1.493	0.050	5.8	100
2-Methylphenol	1.240	1.260	0.050	1.6	100
2,2'-oxybis(1-Chloropropane)	2.016	1.951	0.050	-3.2	100
4-Methylphenol	1.390	1.410	0.050	1.4	100
N-Nitroso-di-n-propylamine	0.759	0.794	0.050	4.6	100
Hexachloroethane	0.563	0.583	0.050	3.6	100
Nitrobenzene	0.442	0.432	0.050	-2.3	100
Isophorone	0.719	0.729	0.050	1.4	100
2-Nitrophenol	0.219	0.226	0.050	3.2	20.0
2,4-Dimethylphenol	0.375	0.381	0.050	1.6	100
2,4-Dichlorophenol	0.310	0.322	0.050	3.9	20.0
1,2,4-Trichlorobenzene	0.318	0.337	0.050	6.0	100
Naphthalene	1.108	1.164	0.050	5.0	100
4-Chloroaniline	0.444	0.396	0.050	-10.8	100
bis(2-Chloroethoxy)methane	0.481	0.488	0.050	1.4	100
Hexachlorobutadiene	0.167	0.181	0.050	8.4	20.0
4-Chloro-3-Methylphenol	0.342	0.348	0.050	1.8	20.0
2-Methylnaphthalene	0.760	0.786	0.050	3.4	100
Hexachlorocyclopentadiene	0.314	0.262	0.050	-16.6	100
2,4,6-Trichlorophenol	0.383	0.395	0.050	3.1	100
2,4,5-Trichlorophenol	0.408	0.422	0.050	3.4	100
2-Chloronaphthalene	1.189	1.206	0.050	1.4	100
2-Nitroaniline	0.425	0.400	0.050	-5.9	100
Dimethylphthalate	1.354	1.396	0.050	3.1	100
Acenaphthylene	1.979	2.032	0.050	2.7	100
2,6-Dinitrotoluene	0.332	0.340	0.050	2.4	100
3-Nitroaniline	0.378	0.298	0.050	-21.2	100
Acenaphthene	1.248	1.278	0.050	2.4	20.0
2,4-Dinitrophenol	0.178	0.183	0.050	2.8	100
4-Nitrophenol	0.178	0.168	0.050	-5.6	100
Dibenzofuran	1.751	1.793	0.050	2.4	100
2,4-Dinitrotoluene	0.436	0.436	0.050	0.0	100

All other compounds must meet a minimum RRF of 0.010.

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: S3 Calibration Date: 11/19/02 Time: 1047

Lab File ID: S3C0345 Init. Calib. Date(s): 11/12/02 11/12/02

Init. Calib. Times: 1650 2021

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	*1.336*	*1.366*	*0.050*	*2.2*	*100*
4-Chlorophenyl-phenylether	0.676	0.660	0.050	-2.4	100
Fluorene	1.443	1.426	0.050	-1.2	100
4-Nitroaniline	0.357	0.220	0.050	-38.4	100
4,6-Dinitro-2-methylphenol	0.162	0.168	0.050	3.7	100
N-Nitrosodiphenylamine(1)	0.588	0.574	0.050	-2.4	20.0
4-Bromophenyl-phenylether	0.240	0.253	0.050	5.4	100
Hexachlorobenzene	0.243	0.262	0.050	7.8	100
Pentachlorophenol	0.161	0.164	0.050	1.9	20.0
Phenanthrene	1.170	1.203	0.050	2.8	100
Anthracene	1.199	1.222	0.050	1.9	100
Carbazole	0.995	0.750	0.050	-24.6	100
Di-n-butylphthalate	1.380	1.461	0.050	5.9	100
Fluoranthene	1.237	1.274	0.050	3.0	20.0
Pyrene	1.176	1.222	0.050	3.9	100
Butylbenzylphthalate	0.558	0.574	0.050	2.9	100
3,3'-Dichlorobenzidine	0.412	0.396	0.050	-3.9	100
Benzo(a)anthracene	1.142	1.202	0.050	5.2	100
Chrysene	1.064	1.059	0.050	-0.5	100
bis(2-Ethylhexyl)phthalate	0.837	0.850	0.050	1.6	100
Di-n-octylphthalate	1.953	2.112	0.050	8.1	20.0
Benzo(b)fluoranthene	1.642	1.735	0.050	5.7	100
Benzo(k)fluoranthene	1.473	1.540	0.050	4.5	100
Benzo(a)pyrene	1.505	1.568	0.050	4.2	20.0
Indeno(1,2,3-cd)pyrene	1.643	1.678	0.050	2.1	100
Dibenzo(a,h)anthracene	1.613	1.680	0.050	4.2	100
Benzo(g,h,i)perylene	1.575	1.653	0.050	5.0	100
Nitrobenzene-d5	0.421	0.417	0.050	-1.0	100
2-Fluorobiphenyl	1.396	1.446	0.050	3.6	100
Terphenyl-d14	0.856	0.884	0.050	3.3	100
Phenol-d5	1.739	1.734	0.050	-0.3	100
2-Fluorophenol	1.392	1.424	0.050	2.3	100
2,4,6-Tribromophenol	0.124	0.136	0.050	9.7	100
2-Chlorophenol-d4	1.421	1.494	0.050	5.1	100
1,2-Dichlorobenzene-d4	0.883	0.944	0.050	6.9	100

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: S3 Calibration Date: 11/21/02 Time: 1119

Lab File ID: S3C0375 Init. Calib. Date(s): 11/12/02 11/12/02

Init. Calib. Times: 1650 2021

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.854	1.815	0.050	-2.1	20.0
bis(2-Chloroethyl)Ether	1.462	1.456	0.050	-0.4	100
2-Chlorophenol	1.418	1.435	0.050	1.2	100
1,3-Dichlorobenzene	1.483	1.561	0.050	5.2	100
1,4-Dichlorobenzene	1.560	1.611	0.050	3.3	20.0
1,2-Dichlorobenzene	1.411	1.539	0.050	9.1	100
2-Methylphenol	1.240	1.268	0.050	2.2	100
2,2'-oxybis(1-Chloropropane)	2.016	1.761	0.050	-12.6	100
4-Methylphenol	1.390	1.348	0.050	-3.0	100
N-Nitroso-di-n-propylamine	0.759	0.856	0.050	12.8	100
Hexachloroethane	0.563	0.596	0.050	5.9	100
Nitrobenzene	0.442	0.400	0.050	-9.5	100
Isophorone	0.719	0.725	0.050	0.8	100
2-Nitrophenol	0.219	0.223	0.050	1.8	20.0
2,4-Dimethylphenol	0.375	0.394	0.050	5.1	100
2,4-Dichlorophenol	0.310	0.332	0.050	7.1	20.0
1,2,4-Trichlorobenzene	0.318	0.352	0.050	10.7	100
Naphthalene	1.108	1.128	0.050	1.8	100
4-Chloroaniline	0.444	0.235	0.050	-47.1	100
bis(2-Chloroethoxy)methane	0.481	0.473	0.050	-1.7	100
Hexachlorobutadiene	0.167	0.199	0.050	19.2	20.0
4-Chloro-3-Methylphenol	0.342	0.352	0.050	2.9	20.0
2-Methylnaphthalene	0.760	0.786	0.050	3.4	100
Hexachlorocyclopentadiene	0.314	0.317	0.050	1.0	100
2,4,6-Trichlorophenol	0.383	0.412	0.050	7.6	100
2,4,5-Trichlorophenol	0.408	0.425	0.050	4.2	100
2-Chloronaphthalene	1.189	1.158	0.050	-2.6	100
2-Nitroaniline	0.425	0.336	0.050	-20.9	100
Dimethylphthalate	1.354	1.401	0.050	3.5	100
Acenaphthylene	1.979	1.919	0.050	-3.0	100
2,6-Dinitrotoluene	0.332	0.347	0.050	4.5	100
3-Nitroaniline	0.378	0.096	0.050	-74.6	100
Acenaphthene	1.248	1.236	0.050	-1.0	20.0
2,4-Dinitrophenol	0.178	0.192	0.050	7.9	100
4-Nitrophenol	0.178	0.149	0.050	-16.3	100
Dibenzofuran	1.751	1.684	0.050	-3.8	100
2,4-Dinitrotoluene	0.436	0.427	0.050	-2.1	100

All other compounds must meet a minimum RRF of 0.010.

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: S3 Calibration Date: 11/21/02 Time: 1119

Lab File ID: S3C0375 Init. Calib. Date(s): 11/12/02 11/12/02

Init. Calib. Times: 1650 2021

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.336	1.365	0.050	2.2	100
4-Chlorophenyl-phenylether	0.676	0.674	0.050	-0.3	100
Fluorene	1.443	1.387	0.050	-3.9	100
4-Nitroaniline	0.357	0.164	0.050	-54.1	100
4,6-Dinitro-2-methylphenol	0.162	0.176	0.050	8.6	100
N-Nitrosodiphenylamine(1)	0.588	0.488	0.050	-17.0	20.0
4-Bromophenyl-phenylether	0.240	0.260	0.050	8.3	100
Hexachlorobenzene	0.243	0.277	0.050	14.0	100
Pentachlorophenol	0.161	0.184	0.050	14.3	20.0
Phenanthrene	1.170	1.164	0.050	-0.5	100
Anthracene	1.199	1.170	0.050	-2.4	100
Carbazole	0.995	0.379	0.050	-61.9	100
Di-n-butylphthalate	1.380	1.430	0.050	3.6	100
Fluoranthene	1.237	1.278	0.050	3.3	20.0
Pyrene	1.176	1.188	0.050	1.0	100
Butylbenzylphthalate	0.558	0.564	0.050	1.1	100
3,3'-Dichlorobenzidine	0.412	0.304	0.050	-26.2	100
Benzo(a)anthracene	1.142	1.145	0.050	0.3	100
Chrysene	1.064	1.035	0.050	-2.7	100
bis(2-Ethylhexyl)phthalate	0.837	0.829	0.050	-1.0	100
Di-n-octylphthalate	1.953	1.983	0.050	1.5	20.0
Benzo(b)fluoranthene	1.642	1.619	0.050	-1.4	100
Benzo(k)fluoranthene	1.473	1.461	0.050	-0.8	100
Benzo(a)pyrene	1.505	1.478	0.050	-1.8	20.0
Indeno(1,2,3-cd)pyrene	1.643	1.520	0.050	-7.5	100
Dibenzo(a,h)anthracene	1.613	1.498	0.050	-7.1	100
Benzo(g,h,i)perylene	1.575	1.454	0.050	-7.7	100
Nitrobenzene-d5	0.421	0.384	0.050	-8.8	100
2-Fluorobiphenyl	1.396	1.401	0.050	0.4	100
Terphenyl-d14	0.856	0.873	0.050	2.0	100
Phenol-d5	1.739	1.599	0.050	-8.0	100
2-Fluorophenol	1.392	1.375	0.050	-1.2	100
2,4,6-Tribromophenol	0.124	0.146	0.050	17.7	100
2-Chlorophenol-d4	1.421	1.494	0.050	5.1	100
1,2-Dichlorobenzene-d4	0.883	0.961	0.050	8.8	100

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: S3 Calibration Date: 11/25/02 Time: 1040

Lab File ID: S3C0441 Init. Calib. Date(s): 11/12/02 11/12/02

Init. Calib. Times: 1650 2021

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.854	1.964	0.05	5.9	20.0
bis(2-Chloroethyl)Ether	1.462	1.375	0.05	6.0	100
2-Chlorophenol	1.418	1.483	0.05	4.6	100
1,3-Dichlorobenzene	1.483	1.552	0.05	4.6	100
1,4-Dichlorobenzene	1.560	1.616	0.05	3.6	20.0
1,2-Dichlorobenzene	1.411	1.432	0.05	1.5	100
2-Methylphenol	1.240	1.280	0.05	3.2	100
2,2'-oxybis(1-Chloropropane)	2.016	2.095	0.05	3.9	100
4-Methylphenol	1.390	1.427	0.05	2.7	100
N-Nitroso-di-n-propylamine	0.759	0.729	0.05	4.0	100
Hexachloroethane	0.563	0.571	0.05	1.4	100
Nitrobenzene	0.442	0.414	0.05	6.3	100
Isophorone	0.719	0.688	0.05	4.3	100
2-Nitrophenol	0.219	0.229	0.05	4.6	20.0
2,4-Dimethylphenol	0.375	0.370	0.05	1.3	100
2,4-Dichlorophenol	0.310	0.320	0.05	3.2	20.0
1,2,4-Trichlorobenzene	0.318	0.322	0.05	1.2	100
Naphthalene	1.108	1.162	0.05	4.9	100
4-Chloroaniline	0.444	0.480	0.05	8.1	100
bis(2-Chloroethoxy)methane	0.481	0.458	0.05	4.8	100
Hexachlorobutadiene	*0.167*	*0.157*	*0.05*	*6.0*	*20.0*
4-Chloro-3-Methylphenol	0.342	0.345	0.05	0.9	20.0
2-Methylnaphthalene	0.760	0.780	0.05	2.6	100
Hexachlorocyclopentadiene	0.314	0.311	0.05	1.0	100
2,4,6-Trichlorophenol	0.383	0.384	0.05	0.3	100
2,4,5-Trichlorophenol	0.408	0.402	0.05	1.5	100
2-Chloronaphthalene	1.189	1.210	0.05	1.8	100
2-Nitroaniline	0.425	0.404	0.05	4.9	100
Dimethylphthalate	1.354	1.410	0.05	4.1	100
Acenaphthylene	1.979	2.075	0.05	4.8	100
2,6-Dinitrotoluene	0.332	0.347	0.05	4.5	100
3-Nitroaniline	0.378	0.402	0.05	6.3	100
Acenaphthene	1.248	1.250	0.05	0.2	20.0
2,4-Dinitrophenol	0.178	0.208	0.05	16.8	100
4-Nitrophenol	0.178	0.169	0.05	5.0	100
Dibenzofuran	1.751	1.778	0.05	1.5	100
2,4-Dinitrotoluene	0.436	0.445	0.05	2.1	100

FORM 7
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

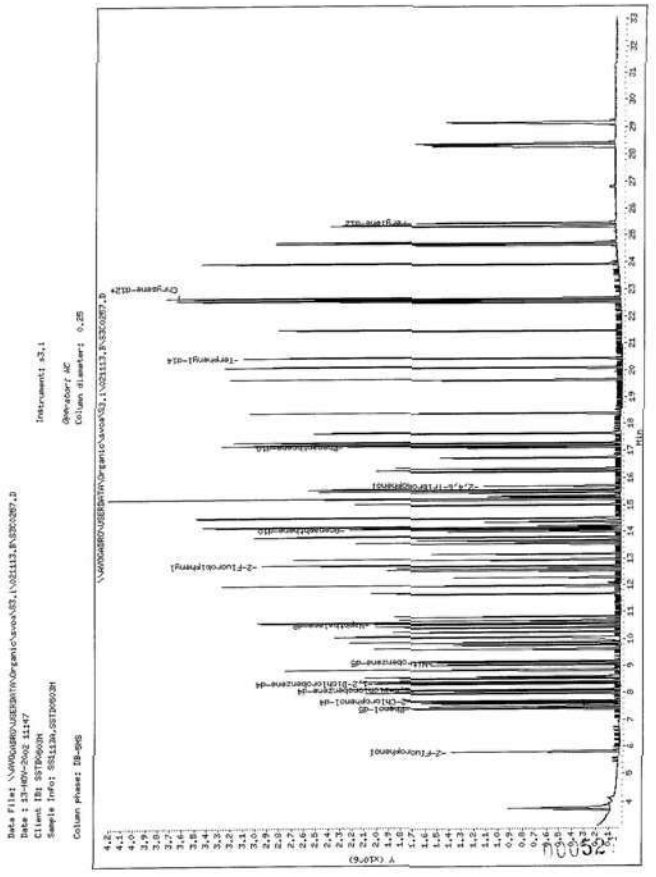
Instrument ID: S3 Calibration Date: 11/25/02 Time: 1040

Lab File ID: S3C0441 Init. Calib. Date(s): 11/12/02 11/12/02

Init. Calib. Times: 1650 2021

GC Column: DB-5MS ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.336	1.384	0.05	3.6	100
4-Chlorophenyl-phenylether	0.676	0.619	0.05	8.4	100
Fluorene	1.443	1.430	0.05	0.9	100
4-Nitroaniline	0.357	0.391	0.05	9.5	100
4,6-Dinitro-2-methylphenol	0.162	0.174	0.05	7.4	100
N-Nitrosodiphenylamine	0.588	0.599	0.05	1.9	20.0
4-Bromophenyl-phenylether	0.240	0.225	0.05	6.2	100
Hexachlorobenzene	0.243	0.250	0.05	2.9	100
Pentachlorophenol	0.161	0.168	0.05	4.3	20.0
Phenanthrene	1.170	1.189	0.05	1.6	100
Anthracene	1.199	1.221	0.05	1.8	100
Carbazole	0.995	1.046	0.05	5.1	100
Di-n-butylphthalate	1.380	1.472	0.05	6.7	100
Fluoranthene	1.237	1.221	0.05	1.3	20.0
Pyrene	1.176	1.302	0.05	10.7	100
Butylbenzylphthalate	0.558	0.645	0.05	15.6	100
3,3'-Dichlorobenzidine	0.412	0.436	0.05	5.8	100
Benzo(a)anthracene	1.142	1.129	0.05	1.1	100
Chrysene	1.064	1.083	0.05	1.8	100
bis(2-Ethylhexyl)phthalate	0.837	0.939	0.05	12.2	100
Di-n-octylphthalate	*1.953*	*2.054*	*0.05*	*5.2*	*20.0*
Benzo(b)fluoranthene	1.642	1.565	0.05	4.7	100
Benzo(k)fluoranthene	1.473	1.447	0.05	1.8	100
Benzo(a)pyrene	1.505	1.454	0.05	3.4	20.0
Indeno(1,2,3-cd)pyrene	1.643	1.581	0.05	3.8	100
Dibenzo(a,h)anthracene	1.613	1.548	0.05	4.0	100
Benzo(g,h,i)perylene	1.575	1.561	0.05	0.9	100
Nitrobenzene-d5	0.421	0.401	0.05	4.8	100
2-Fluorobiphenyl	1.396	1.397	0.05	0.1	100
Terphenyl-d14	0.856	0.893	0.05	4.3	100
Phenol-d5	1.739	1.743	0.05	0.2	100
2-Fluorophenol	1.392	1.408	0.05	1.1	100
2,4,6-Tribromophenol	0.124	0.147	0.05	18.5	100
2-Chlorophenol-d4	1.421	1.497	0.05	5.3	100
1,2-Dichlorobenzene-d4	0.883	0.900	0.05	1.9	100



000527

Data File: S3C0257.D
Report Date: 15-Nov-2002 14:51

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3C0257.D
Lab Smp Id: SS1113A Client Smp ID: SSTD0503M
Inj Date : 13-NOV-2002 11:47
Operator : WC Inst ID: s3.i
Smp Info : SS1113A,SSTD0503M
Misc Info : 2,3,SSTD050,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3_8270C.m
Meth Date : 14-Nov-2002 08:38 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270_ALL.sub
Target Version: 4.03
Processing Host: TARGET10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	1 N-Nitrosodimethylamine	74	3.497	3.497	(0.456)	453358	50.0000	53
	2 Pyridine	79	3.761	3.761	(0.464)	921009	50.0000	57
S	3 2-Fluorophenol	112	5.512	5.512	(0.718)	773380	50.0000	53
S	5 Phenol-d5	99	7.404	7.404	(0.914)	960747	50.0000	52
	6 Phenol	94	7.431	7.431	(0.918)	1028358	50.0000	53
	7 Aniline	93	7.495	7.495	(0.925)	1035142	50.0000	49
	8 bis(2-Chloroethyl)Ether	93	7.612	7.612	(0.940)	803504	50.0000	52
S	9 2-Chlorophenol-d4	132	7.676	7.676	(0.948)	784838	50.0000	52
	10 2-Chlorophenol	128	7.708	7.708	(0.952)	777945	50.0000	52
	11 1,3-Dichlorobenzene	146	7.892	7.892	(0.987)	820694	50.0000	52
*	12 1,4-Dichlorobenzene-d4	152	8.098	8.098	(1.000)	421177	40.0000	
	13 1,4-Dichlorobenzene	146	8.130	8.130	(1.004)	862866	50.0000	52
	15 Benzyl Alcohol	108	8.344	8.344	(1.030)	524914	50.0000	53
S	14 1,2-Dichlorobenzene-d4	152	8.376	8.376	(1.034)	482366	50.0000	52
	16 1,2-Dichlorobenzene	146	8.408	8.408	(1.038)	772951	50.0000	52
	17 2-Methylphenol	108	8.547	8.547	(1.055)	685020	50.0000	52
	18 2,2'-oxybis(1-Chloropropane)	45	8.611	8.611	(1.063)	1107790	50.0000	52
	20 4-Methylphenol	108	8.836	8.836	(1.091)	775270	50.0000	53
	19 N-Nitroso-di-n-propylamine	70	8.852	8.852	(1.093)	418943	50.0000	52
	21 Hexachloroethane	117	9.044	9.044	(1.117)	307088	50.0000	52
S	22 Nitrobenzene-d5	82	9.135	9.135	(0.867)	803626	50.0000	52
	23 Nitrobenzene	77	9.172	9.172	(0.870)	859869	50.0000	52
	24 Isophorone	82	9.637	9.637	(0.914)	1371249	50.0000	52
	25 2-Nitrophenol	139	9.787	9.787	(0.929)	418638	50.0000	53
	26 2,4-Dimethylphenol	107	9.872	9.872	(0.937)	692791	50.0000	51
	27 bis(2-Chloroethoxy)methane	93	10.070	10.070	(0.955)	912914	50.0000	53

000528

Data File: S3C0257.D
Report Date: 15-Nov-2002 14:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	28 Benzoic Acid	105	10.070	10.070	(0.955)	561278	50.0000	52
	29 2,4-Dichlorophenol	162	10.257	10.257	(0.973)	585411	50.0000	52
	30 1,2,4-Trichlorobenzene	180	10.422	10.422	(0.989)	595098	50.0000	51
*	31 Naphthalene-d8	136	10.540	10.540	(1.000)	1455330	40.0000	
	32 Naphthalene	128	10.583	10.583	(1.004)	2150758	50.0000	53
	33 4-Chloroaniline	127	10.689	10.689	(1.014)	838005	50.0000	52
	34 Hexachlorobutadiene	225	10.828	10.828	(1.027)	309712	50.0000	51
	35 4-Chloro-3-Methylphenol	107	11.667	11.667	(1.107)	647762	50.0000	52
	36 2-Methylnaphthalene	142	11.972	11.972	(1.136)	1450988	50.0000	52
	37 1-Methylnaphthalene	142	11.972	11.972	(1.136)	1450988	50.0000	52
	38 Hexachlorocyclopentadiene	237	12.287	12.287	(0.872)	312048	50.0000	51
	39 2,4,6-Trichlorophenol	196	12.543	12.543	(0.890)	391497	50.0000	52
	40 2,4,5-Trichlorophenol	196	12.613	12.613	(0.895)	414099	50.0000	52
S	41 2-Fluorobiphenyl	172	12.730	12.730	(0.903)	1437446	50.0000	52
	42 2-Chloronaphthalene	162	12.960	12.960	(0.920)	1213185	50.0000	52
	43 2-Nitroaniline	65	13.174	13.174	(0.935)	435874	50.0000	52
	44 Dimethylphthalate	163	13.569	13.569	(0.963)	1396782	50.0000	52
	45 2,6-Dinitrotoluene	165	13.686	13.686	(0.971)	340731	50.0000	52
	46 Acenaphthylene	152	13.804	13.804	(0.980)	2068521	50.0000	53
	47 3-Nitroaniline	138	14.018	14.018	(0.995)	377305	50.0000	51
*	48 Acenaphthene-d10	164	14.092	14.092	(1.000)	784473	40.0000	
	49 Acenaphthene	153	14.162	14.162	(1.005)	1288552	50.0000	53
	50 2,4-Dinitrophenol	184	14.237	14.237	(1.010)	155977	50.0000	48
	53 4-Nitrophenol	109	14.375	14.375	(1.020)	174783	50.0000	51
	51 2,4-Dinitrotoluene	165	14.504	14.504	(1.029)	448545	50.0000	52
	52 Dibenzofuran	168	14.514	14.514	(1.030)	1815732	50.0000	53
	54 Diethylphthalate	149	15.027	15.027	(1.066)	1343477	50.0000	53
	55 Fluorene	166	15.220	15.220	(1.080)	1481091	50.0000	52
	56 4-Chlorophenyl-phenylether	204	15.236	15.236	(1.081)	677438	50.0000	51
	57 4-Nitroaniline	138	15.268	15.268	(1.083)	336644	50.0000	48
	58 4,6-Dinitro-2-methylphenol	198	15.337	15.337	(0.895)	243584	50.0000	48(Q)
	59 N-Nitrosodiphenylamine	169	15.481	15.481	(0.903)	979265	50.0000	52
S	60 2,4,6-Tribromophenol	330	15.711	15.711	(0.916)	207932	50.0000	53
	61 4-Bromophenyl-phenylether	248	16.240	16.240	(0.947)	396074	50.0000	51
	62 Hexachlorobenzene	284	16.336	16.336	(0.953)	404582	50.0000	52
	63 Pentachlorophenol	266	16.747	16.747	(0.977)	257495	50.0000	50
*	64 Phenanthrene-d10	188	17.143	17.143	(1.000)	1282774	40.0000	
	65 Phenanthrene	178	17.191	17.191	(1.003)	1956395	50.0000	52
	66 Anthracene	178	17.298	17.298	(1.009)	2016358	50.0000	52
	67 Carbazole	167	17.634	17.634	(1.029)	1679939	50.0000	52
	68 Di-n-butylphthalate	149	18.398	18.398	(1.073)	2370197	50.0000	53
	69 Fluoranthene	202	19.632	19.632	(1.145)	2077870	50.0000	52
	71 Pyrene	202	20.097	20.097	(0.890)	2164607	50.0000	53
S	72 Terphenyl-d14	244	20.444	20.444	(0.906)	1563705	50.0000	53
	73 Butylbenzylphthalate	149	21.475	21.475	(0.951)	1025679	50.0000	53
	74 3,3'-Dichlorobenzidine	252	22.522	22.522	(0.998)	752343	50.0000	53
	75 Benzo[a]Anthracene	228	22.554	22.554	(0.999)	2077477	50.0000	53

000529

Data File: S3C0257.D
Report Date: 15-Nov-2002 14:51

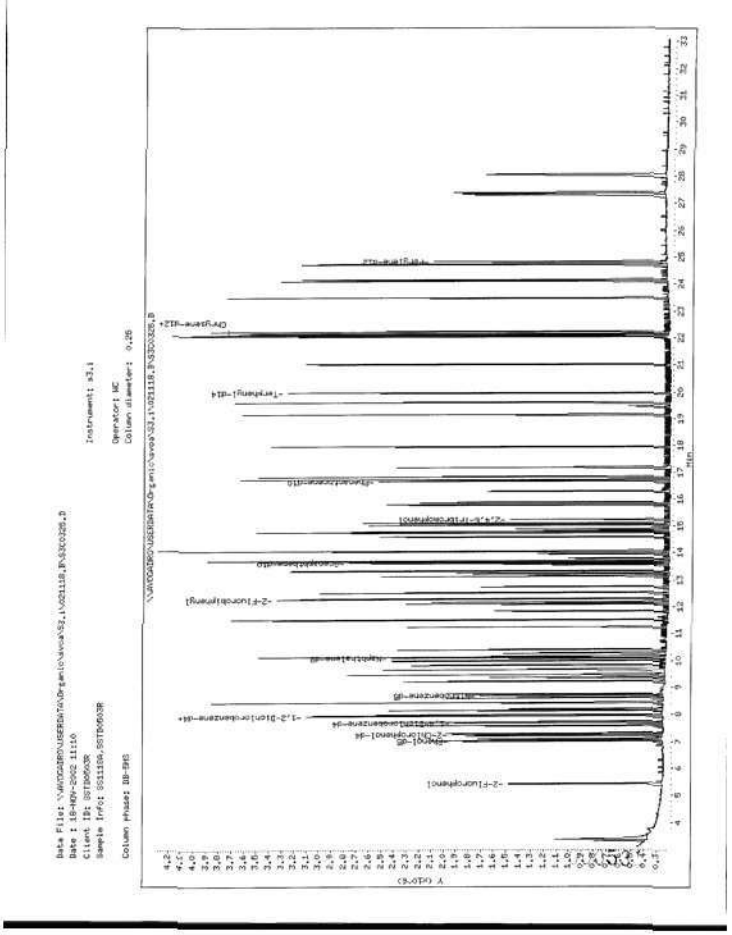
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	76 Chrysene-d12	240	22.576	22.576	(1.000)	1381080	40.0000	
	78 bis(2-Ethylhexyl)phthalate	149	22.646	22.646	(1.004)	1532300	50.0000	53
	77 Chrysene	228	22.629	22.629	(1.002)	1913822	50.0000	52
	70 Benzidine	184	22.576	22.576	(1.788)	11198	50.0000	34
	79 Di-n-octylphthalate	149	23.933	23.933	(0.940)	3564288	50.0000	54
	80 Benzo(b)fluoranthene	252	24.643	24.643	(0.968)	2059715	50.0000	51
	81 Benzo(k)fluoranthene	252	24.702	24.702	(0.970)	1884038	50.0000	52
	82 Benzo(a)pyrene	252	25.332	25.332	(0.995)	1802365	50.0000	51
*	83 Perylene-d12	264	25.455	25.455	(1.000)	989755	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	28.308	28.308	(1.112)	2154053	50.0000	53
	85 Dibenzo(a,h)anthracene	278	28.377	28.377	(1.115)	2048841	50.0000	51
	86 Benzo(g,h,i)perylene	276	29.173	29.173	(1.146)	2011553	50.0000	53

QC Flag Legend

Q - Qualifier signal failed the ratio test.

11/13/02

000530



Data File: S3C0325.D
Report Date: 19-Nov-2002 17:05

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021118.B\S3C0325.D
Lab Smp Id: SS1118A Client Smp ID: SSTD0503R
Inj Date : 18-NOV-2002 11:10
Operator : WC Inst ID: s3.i
Smp Info : SS1118A,SSTD0503R
Misc Info : 2,3,SSTD001,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021118.B\S3_8270C.m
Meth Date : 19-Nov-2002 07:26 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270_ALL.sub
Target Version: 4.03
Processing Host: TARGET7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	
	1 N-Nitrosodimethylamine	74	3.323	3.323	(0.419)	463681	50.0000	53	
	2 Pyridine	79	3.382	3.382	(0.426)	879534	50.0000	49 (H)	
$	3 2-Fluorophenol	112	5.412	5.412	(0.682)	773219	50.0000	51	
$	5 Phenol-d5	99	7.004	7.025	(0.882)	842140	50.0000	50 (H)	
	6 Phenol	94	7.091	7.051	(0.886)	1014245	50.0000	50 (H)	
	7 Aniline	93	7.074	7.074	(0.891)	1070193	50.0000	49 (H)	
	8 bis(2-Chloroethyl)Ether	93	7.198	7.213	(0.906)	823453	50.0000	52 (H)	
$	9 2-Chlorophenol-d4	132	7.250	7.240	(0.913)	808929	50.0000	52	
	10 2-Chlorophenol	128	7.277	7.292	(0.917)	788040	50.0000	51	
	11 1,3-Dichlorobenzene	146	7.554	7.564	(0.952)	858686	50.0000	53 (H)	
*	12 1,4-Dichlorobenzene-d4	152	7.641	7.671	(1.000)	436641	40.0000	(H)	
	13 1,4-Dichlorobenzene	146	7.693	7.703	(0.969)	894153	50.0000	52 (H)	
	15 Benzyl Alcohol	108	7.923	7.923	(0.998)	830199	50.0000	54 (H)	
$	16 1,2-Dichlorobenzene-d4	152	7.959	7.949	(1.000)	522159	50.0000	54	
	16 1,2-Dichlorobenzene	146	7.966	7.976	(1.003)	826376	50.0000	54	
	17 2-Methylphenol	108	8.131	8.146	(1.024)	696073	50.0000	51 (H)	
	18 2,2'-oxybis(1-Chloropropane)	45	8.185	8.196	(1.031)	1144339	50.0000	52 (H)	
	20 4-Methylphenol	108	8.425	8.440	(1.061)	770225	50.0000	51	
	19 N-Nitroso-di-n-propylamine	70	8.430	8.440	(1.062)	662996	50.0000	54 (H)	
	21 Hexachloroethane	117	8.594	8.601	(1.082)	336628	50.0000	55	
$	22 Nitrobenzene-d5	82	8.697	8.707	(0.862)	789221	50.0000	49	
	23 Nitrobenzene	77	8.735	8.750	(0.866)	833315	50.0000	49	
	24 Isophorone	82	9.200	9.215	(0.912)	1456212	50.0000	53	
	25 2-Nitrophenol	139	9.344	9.354	(0.926)	418830	50.0000	50	
	26 2,4-Dimethylphenol	107	9.451	9.466	(0.937)	752539	50.0000	52	
	27 bis(2-Chloroethoxy)methane	93	9.643	9.658	(0.956)	922655	50.0000	50	

000532

Data File: S3C0325.D
Report Date: 19-Nov-2002 17:05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	
	28 Benzoic Acid	105	9.670	9.670	(0.959)	550571	50.0000	49	
	29 2,4-Dichlorophenol	162	9.814	9.829	(0.973)	605515	50.0000	51	
	30 1,2,4-Trichlorobenzene	180	9.940	9.985	(0.989)	643777	50.0000	53	
*	31 Naphthalene-d8	136	10.086	10.096	(1.000)	1527999	40.0000		
	32 Naphthalene	128	10.134	10.139	(1.004)	2232453	50.0000	53	
	33 4-Chloroaniline	127	10.232	10.262	(1.016)	764458	50.0000	45	
	34 Hexachlorobutadiene	225	10.380	10.390	(1.029)	351648	50.0000	55	
	35 4-Chloro-3-Methylphenol	107	11.240	11.250	(1.114)	663045	50.0000	51	
	36 2-Methylnaphthalene	142	11.513	11.523	(1.141)	1504184	50.0000	52	
	37 1-Methylnaphthalene	142	11.513	11.513	(1.141)	1504184	50.0000	52	
	38 Hexachlorocyclopentadiene	237	11.828	11.833	(0.869)	324050	50.0000	48	
	39 2,4,6-Trichlorophenol	196	12.090	12.100	(0.888)	418209	50.0000	51	
	40 2,4,5-Trichlorophenol	196	12.159	12.176	(0.893)	439350	50.0000	50	
$	41 2-Fluorobiphenyl	172	12.271	12.281	(0.901)	1521482	50.0000	51	
	42 2-Chloronaphthalene	162	12.490	12.506	(0.917)	1253703	50.0000	49	
	43 2-Nitroaniline	65	12.720	12.735	(0.934)	420816	50.0000	46	
	44 Dimethylphthalate	163	13.126	13.136	(0.964)	1508358	50.0000	52	
	45 2,6-Dinitrotoluene	165	13.233	13.254	(0.972)	357864	50.0000	50	
	46 Acenaphthylene	152	13.328	13.339	(0.979)	2198307	50.0000	52	
	47 3-Nitroaniline	138	13.559	13.579	(0.996)	359692	50.0000	44	
*	48 Acenaphthene-d10	164	13.618	13.627	(1.000)	858045	40.0000		
	49 Acenaphthene	153	13.682	13.697	(1.005)	1374928	50.0000	51	
	50 2,4-Dinitrophenol	184	13.778	13.793	(1.012)	186284	50.0000	49	
	51 4-Nitrophenol	109	13.978	13.989	(1.026)	174449	50.0000	46	
	53 2,4-Dinitrotoluene	165	14.045	14.066	(1.031)	461890	50.0000	49	
	52 Dibenzofuran	168	14.040	14.055	(1.031)	1875536	50.0000	50	
	54 Diethylphthalate	149	14.574	14.589	(1.070)	1488451	50.0000	52	
	55 Fluorene	166	14.739	14.749	(1.082)	1513818	50.0000	49	
	56 4-Chlorophenyl-phenylether	204	14.766	14.776	(1.084)	897403	50.0000	48	
	57 4-Nitroaniline	138	14.809	14.829	(1.087)	333378	50.0000	43	
	58 4,6-Dinitro-2-methylphenol	198	14.873	14.894	(0.888)	274792	50.0000	51 (Q)	
	59 N-Nitrosodiphenylamine	*169*	*15.012*	*15.027*	*(0.896)*	*973248*	*50.0000*	49	
$	60 2,4,6-Tribromophenol	330	15.226	15.241	(0.909)	224646	50.0000	54	
	61 4-Bromophenyl-phenylether	248	15.760	15.775	(0.941)	414574	50.0000	52 (H)	
	62 Hexachlorobenzene	284	15.851	15.866	(0.946)	443395	50.0000	54	
	63 Pentachlorophenol	266	16.267	16.283	(0.971)	268250	50.0000	50	
*	64 Phenanthrene-d10	188	16.647	16.658	(1.000)	1545145	40.0000	(H)	
	65 Phenanthrene	178	16.695	16.710	(0.996)	2027793	50.0000	52 (H)	
	66 Anthracene	178	16.802	16.817	(1.003)	2057252	50.0000	51	
	67 Carbazole	167	17.149	17.164	(1.024)	1613976	50.0000	49	
	68 Di-n-butylphthalate	149	17.934	17.944	(1.070)	2543967	50.0000	55 (H)	
	69 Fluoranthene	202	19.125	19.141	(1.142)	2174009	50.0000	52	
	71 Pyrene	202	19.579	19.595	(0.888)	2271762	50.0000	52	
$	72 Terphenyl-d14	244	19.948	19.958	(0.905)	1618096	50.0000	51	
	73 Butylbenzylphthalate	149	20.995	21.005	(0.953)	1089922	50.0000	53	
	74 3,3'-Dichlorobenzidine	252	22.015	22.036	(0.998)	770322	50.0000	51	
	75 Benzo(a)Anthracene	228	22.031	22.052	(0.999)	2113394	50.0000	53	

000533

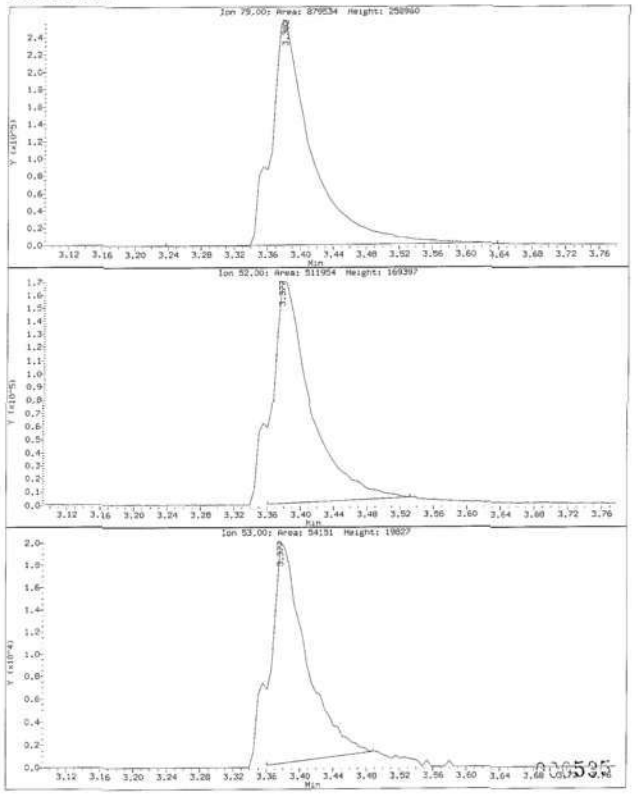
Data File: S3C0325.D
Report Date: 19-Nov-2002 17:05

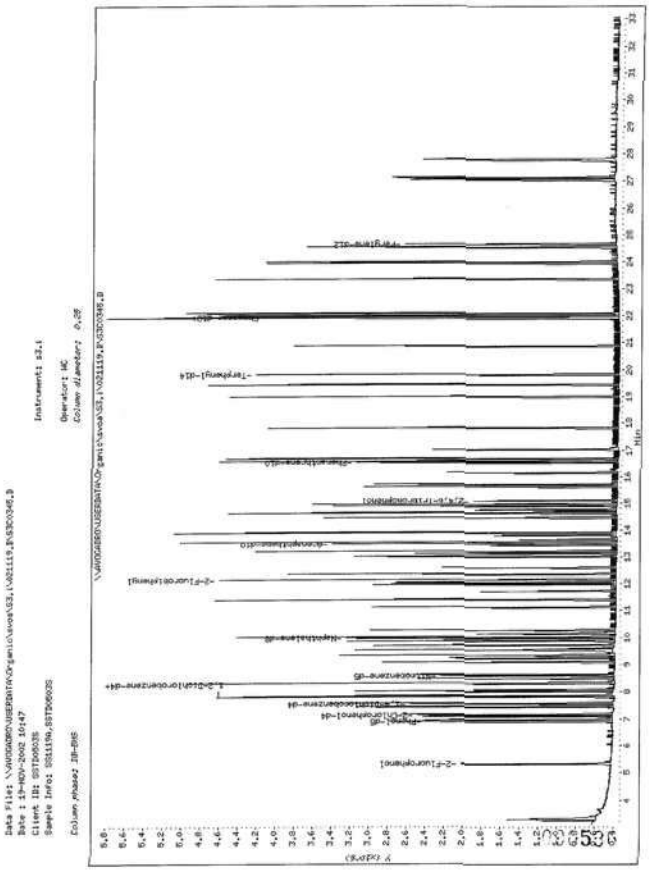
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	
*	76 Chrysene-d12	240	22.053	22.079	(1.000)	1471832	40.0000		
	78 bis(2-Ethylhexyl)phthalate	149	22.197	22.202	(1.007)	1605197	50.0000	52	
	77 Chrysene	228	22.106	22.132	(1.002)	1892075	50.0000	51	
	70 Benzidine	184	22.053	22.053	(2.778)	12586	50.0000	37	
	79 Di-n-octylphthalate	149	23.463	23.473	(0.948)	2639640	50.0000	53	
	80 Benzo(b)fluoranthene	252	24.098	24.109	(0.971)	2126883	50.0000	50	
	81 Benzo(k)fluoranthene	252	24.136	24.162	(0.973)	1919085	50.0000	51 (H)	
	82 Benzo(a)pyrene	252	24.692	24.718	(0.994)	1950734	50.0000	51	
*	83 Perylene-d12	264	24.799	24.825	(1.000)	1024471	40.0000		
	84 Indeno(1,2,3-cd)pyrene	276	27.299	27.335	(1.101)	1963362	50.0000	47	
	85 Dibenzo(a,h)anthracene	278	27.358	27.405	(1.103)	1934769	50.0000	47	
	86 Benzo(g,h,i)perylene	276	28.041	28.123	(1.131)	1922191	50.0000	48	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

000534





Data File: S3C0345.D
Report Date: 20-Nov-2002 08:11

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021119.B\S3C0345.D
Lab Smp Id: SS1119A Client Smp ID: SSTD0503S
Inj Date : 19-NOV-2002 10:47
Operator : WC Inst ID: s3.i
Smp Info : SS1119A,SSTD0503S
Misc Info : 2,3,SSTD001,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021119.B\S3_8270C.m
Meth Date : 20-Nov-2002 08:11 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270_ALL.sub
Target Version: 4.03
Processing Host: TARGET2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	1 N-Nitrosodimethylamine	74	3.233	3.233	(0.428)	587935	50.0000	50
	2 Pyridine	79	3.286	3.286	(0.435)	1162449	50.0000	50
$	3 1-Fluorophenol	112	5.316	5.316	(0.703)	1008049	50.0000	51
$	5 Phenol-d5	99	6.914	6.914	(0.914)	1216052	50.0000	50
	6 Phenol	94	6.940	6.940	(0.918)	1312081	50.0000	52
	7 Aniline	93	6.978	6.978	(0.923)	1299422	50.0000	46
	8 bis(2-Chloroethyl)Ether	93	7.101	7.101	(0.939)	1041057	50.0000	50
$	9 2-Chlorophenol-d4	132	7.148	7.148	(0.946)	1054900	50.0000	52
	10 2-Chlorophenol	128	7.181	7.181	(0.950)	1029178	50.0000	51
	11 1,3-Dichlorobenzene	146	7.453	7.453	(0.986)	1097108	50.0000	53
*	12 1,4-Dichlorobenzene-d4	152	7.560	7.560	(1.000)	564647	40.0000	
	13 1,4-Dichlorobenzene	146	7.593	7.592	(1.004)	1149233	50.0000	52
	15 Benzyl Alcohol	108	7.827	7.827	(1.035)	694569	50.0000	53
$	14 1,2-Dichlorobenzene-d4	152	7.838	7.838	(1.037)	669994	50.0000	53
	16 1,2-Dichlorobenzene	146	7.864	7.864	(1.040)	1053684	50.0000	53
	17 2-Methylphenol	108	8.035	8.035	(1.063)	889769	50.0000	51
	18 2,2'-oxybis(1-Chloropropane)	45	8.094	8.094	(1.071)	1376929	50.0000	48
	20 4-Methylphenol	108	8.329	8.329	(1.102)	935534	50.0000	51
	19 N-Nitroso-di-n-propylamine	70	8.329	8.329	(1.102)	560196	50.0000	52
	21 Hexachloroethane	117	8.489	8.489	(1.123)	411392	50.0000	52
$	22 Nitrobenzene-d5	82	8.596	8.596	(0.861)	1011888	50.0000	49
	23 Nitrobenzene	77	8.634	8.634	(0.865)	1050077	50.0000	49
	24 Isophorone	82	9.104	9.104	(0.912)	1770151	50.0000	51
	25 2-Nitrophenol	139	9.243	9.243	(0.926)	549935	50.0000	52
	26 2,4-Dimethylphenol	107	9.350	9.350	(0.937)	824310	50.0000	51
	27 bis(2-Chloroethoxy)methane	93	9.547	9.547	(0.957)	1185577	50.0000	51

Data File: S3C0345.D
Report Date: 20-Nov-2002 08:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	28 Benzoic Acid	105	9.590	9.590	(0.961)	715652	50.0000	50
	29 2,4-Dichlorophenol	162	9.713	9.713	(0.973)	781900	50.0000	52
	30 1,2,4-Trichlorobenzene	180	9.873	9.873	(0.989)	819192	50.0000	53
*	31 Naphthalene-d8	136	9.980	9.980	(1.000)	1942026	40.0000	
	32 Naphthalene	128	10.023	10.023	(1.004)	2825933	50.0000	52
	33 4-Chloroaniline	127	10.151	10.151	(1.017)	960667	50.0000	44
	34 Hexachlorobutadiene	225	10.274	10.274	(1.029)	440380	50.0000	54
	35 4-Chloro-3-Methylphenol	107	11.139	11.139	(1.116)	845108	50.0000	51
	36 2-Methylnaphthalene	142	11.406	11.406	(1.143)	1907678	50.0000	52
	38 Hexachlorocyclopentadiene	237	11.721	11.721	(0.868)	348938	50.0000	42
	39 2,4,6-Trichlorophenol	196	11.983	11.983	(0.887)	525874	50.0000	53
	40 2,4,5-Trichlorophenol	196	12.053	12.053	(0.892)	561814	50.0000	52
$	41 2-Fluorobiphenyl	172	12.165	12.165	(0.901)	1924906	50.0000	52
	42 2-Chloronaphthalene	162	12.384	12.384	(0.917)	1604618	50.0000	51
	43 2-Nitroaniline	65	12.614	12.614	(0.934)	532623	50.0000	47
	44 Dimethylphthalate	163	13.020	13.020	(0.964)	1457147	50.0000	52
	45 2,6-Dinitrotoluene	165	13.126	13.126	(0.972)	452194	50.0000	51
	46 Acenaphthylene	152	13.312	13.313	(0.978)	2704653	50.0000	51
	47 3-Nitroaniline	138	13.452	13.453	(0.996)	397249	50.0000	40
*	48 Acenaphthene-d10	164	13.506	13.506	(1.000)	1064523	40.0000	
	49 Acenaphthene	153	13.570	13.570	(1.005)	1700884	50.0000	51
	50 2,4-Dinitrophenol	184	13.671	13.671	(1.012)	249911	50.0000	52
	51 4-Nitrophenol	109	13.837	13.837	(1.025)	223470	50.0000	47
	53 2,4-Dinitrotoluene	165	13.938	13.938	(1.032)	579695	50.0000	50
	52 Dibenzofuran	168	13.928	13.928	(1.031)	2385677	50.0000	51
	54 Diethylphthalate	149	14.467	14.467	(1.071)	1817738	50.0000	51
	55 Fluorene	166	14.632	14.632	(1.083)	1897295	50.0000	49
	56 4-Chlorophenyl-phenylether	204	14.654	14.654	(1.085)	877891	50.0000	49
	57 4-Nitroaniline	138	14.692	14.692	(1.088)	293326	50.0000	31
	58 4,6-Dinitro-2-methylphenol	198	14.766	14.766	(0.888)	354855	50.0000	52(Q)
	59 N-Nitrosodiphenylamine	169	14.900	14.900	(0.896)	1209625	50.0000	49(H)
$	60 2,4,6-Tribromophenol	330	15.114	15.114	(0.908)	285886	50.0000	55
	61 4-Bromophenyl-phenylether	248	15.648	15.648	(0.941)	533987	50.0000	53(H)
	62 Hexachlorobenzene	284	15.733	15.733	(0.946)	551395	50.0000	54
	63 Pentachlorophenol	266	16.150	16.150	(0.971)	345326	50.0000	51
*	64 Phenanthrene-d10	188	16.524	16.524	(1.000)	1685192	40.0000	(H)
	65 Phenanthrene	178	16.577	16.577	(0.996)	2535050	50.0000	51(H)
	66 Anthracene	178	16.679	16.679	(1.003)	2574504	50.0000	51
	67 Carbazole	167	17.026	17.026	(1.023)	1579721	50.0000	38
	68 Di-n-butylphthalate	149	17.823	17.822	(1.071)	3077075	50.0000	53(H)
	69 Fluoranthene	202	18.997	18.997	(1.142)	2684333	50.0000	52(H)
	71 Pyrene	202	19.457	19.457	(0.897)	2809402	50.0000	52
$	72 Terphenyl-d14	244	19.826	19.826	(0.904)	2031153	50.0000	52
	73 Butylbenzylphthalate	149	20.875	20.873	(0.952)	1318930	50.0000	51
	74 3,3'-Dichlorobenzidine	252	21.893	21.893	(0.998)	803227	50.0000	48
	75 Benzo(a)anthracene	228	21.909	21.909	(0.999)	3764089	50.0000	53

Data File: S3C0345.D
Report Date: 20-Nov-2002 08:11

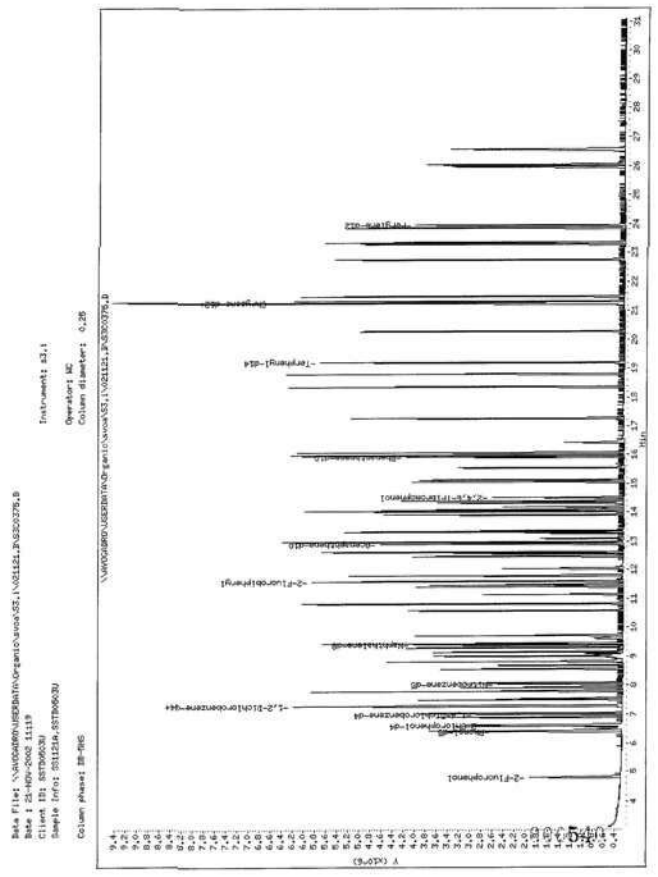
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
**********	****	**	******	******	********	*******	*******
* 76 Chrysene-d12	240	21.930	21.930	(1.000)	1838945	40.0000	
78 bis(2-Ethylhexyl)phthalate	149	22.080	22.080	(1.007)	1952875	50.0000	51
77 Chrysene	228	21.984	21.984	(1.002)	2434445	50.0000	50(H)
70 Benzidine	184	21.930	21.930	(1.901)	15941	50.0000	34
79 Di-n-octylphthalate	149	23.341	23.341	(0.947)	3213445	50.0000	54
80 Benzo(b)fluoranthene	252	23.355	23.355	(0.972)	2639992	50.0000	53
81 Benzo(k)fluoranthene	252	24.008	24.008	(0.974)	2342541	50.0000	52
82 Benzo(a)pyrene	252	24.548	24.548	(0.996)	2386098	50.0000	52
* 83 Perylene-d12	264	24.649	24.649	(1.000)	1317203	40.0000	
84 Indeno(1,2,3-cd)pyrene	276	27.059	27.059	(1.098)	2552389	50.0000	51
85 Dibenzo(a,h/anthracene	278	27.128	27.128	(1.101)	2559833	50.0000	52
86 Benzo(g,h,i)perylene	276	27.785	27.785	(1.127)	2514564	50.0000	52

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

11/21/02

000539



000540

Data File: S3C0375.D
Report Date: 22-Nov-2002 08:50

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021121.B\S3C0375.D
Lab Smp Id: SS1121A Client Smp ID: SSTD0503U
Inj Date : 21-NOV-2002 11:19
Operator : WC Inst ID: s3.i
Smp Info : SS1121A,SSTD0503U
Misc Info : 2,3,SSTD001,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021121.B\S3_8270C.m
Meth Date : 22-Nov-2002 08:50 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
**********	****	**	******	******	********	*******	*******
$ 3 2-Fluorophenol	112	4.789	4.789	(0.658)	1288825	50.0000	49
$ 5 Phenol-d5	99	6.403	6.403	(0.879)	1498437	50.0000	46(H)
4 Phenol	94	6.429	6.429	(0.883)	1499060	50.0000	49(H)
8 bis(2-Chloroethyl)Ether	93	6.584	6.584	(0.904)	1342683	50.0000	50(H)
$ 9 2-Chlorophenol-d4	132	6.606	6.606	(0.907)	1398649	50.0000	52
10 2-Chlorophenol	128	6.638	6.628	(0.911)	1342925	50.0000	51
11 1,3-Dichlorobenzene	146	6.905	6.905	(0.948)	1461330	50.0000	53(H)
* 12 1,4-Dichlorobenzene-d4	152	7.012	7.012	(1.000)	748699	40.0000	(H)
13 1,4-Dichlorobenzene	146	7.044	7.044	(0.967)	1507401	50.0000	52(H)
$ 14 1,2-Dichlorobenzene-d4	152	7.284	7.284	(1.000)	899527	50.0000	54
16 1,2-Dichlorobenzene	146	7.311	7.311	(1.004)	1440734	50.0000	54
17 2-Methylphenol	108	7.514	7.514	(1.032)	1186718	50.0000	51(H)
18 2,2'-oxybis(1-Chloropropane)	45	7.562	7.562	(1.038)	1647941	50.0000	44(H)
20 4-Methylphenol	108	7.813	7.813	(1.073)	1261458	50.0000	48(H)
19 N-Nitroso-di-n-propylamine	70	7.802	7.802	(1.071)	801382	50.0000	54(H)
21 Hexachloroethane	117	7.931	7.931	(1.089)	558257	50.0000	53
$ 22 Nitrobenzene-d5	82	8.048	8.048	(0.855)	1255921	50.0000	46
23 Nitrobenzene	77	8.085	8.085	(0.859)	1305050	50.0000	45(H)
24 Isophorone	82	8.556	8.556	(0.909)	2369006	50.0000	50
25 2-Nitrophenol	139	8.689	8.689	(0.923)	726129	50.0000	52
26 2,4-Dimethylphenol	107	8.829	8.829	(0.938)	1288334	50.0000	52
27 bis(2-Chloroethoxy)methane	93	9.015	9.015	(0.958)	1543405	50.0000	49
29 2,4-Dichlorophenol	162	9.159	9.159	(0.973)	1082943	50.0000	53
30 1,2,4-Trichlorobenzene	180	9.309	9.309	(0.989)	1149701	50.0000	55
* 31 Naphthalene-d8	136	9.410	9.410	(1.000)	2612461	40.0000	
32 Naphthalene	128	9.453	9.453	(1.005)	3693142	50.0000	51

000541

Data File: S3C0375.D
Report Date: 22-Nov-2002 08:50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
**********	****	**	******	******	********	*******	*******
33 4-Chloroaniline	127	9.624	9.624	(1.023)	768952	50.0000	26
34 Hexachlorobutadiene	225	9.715	9.715	(1.032)	650052	50.0000	59
35 4-Chloro-3-Methylphenol	107	10.596	10.596	(1.126)	1149437	50.0000	51
36 3-Methylnaphthalene	142	10.831	10.831	(1.151)	2565314	50.0000	52(H)
38 Hexachlorocyclopentadiene	237	11.147	11.147	(0.863)	612849	50.0000	50
39 2,4,6-Trichlorophenol	196	11.414	11.414	(0.884)	796556	50.0000	54(H)
40 2,4,5-Trichlorophenol	196	11.478	11.478	(0.889)	822863	50.0000	52
$ 41 2-Fluorobiphenyl	172	11.601	11.601	(0.899)	2711001	50.0000	50
42 2-Chloronaphthalene	162	11.798	11.798	(0.914)	2240345	50.0000	49(H)
43 2-Nitroaniline	65	12.044	12.044	(0.933)	650563	50.0000	40
44 Dimethylphthalate	163	12.466	12.466	(0.966)	2710549	50.0000	52
45 2,6-Dinitrotoluene	165	12.568	12.568	(0.974)	671397	50.0000	52
46 Acenaphthylene	152	12.621	12.621	(0.978)	3712370	50.0000	46
47 3-Nitroaniline	138	12.883	12.883	(0.998)	195321	50.0000	13
* 48 Acenaphthene-d10	164	12.909	12.909	(1.000)	1547751	40.0000	
49 Acenaphthene	153	12.979	12.979	(1.005)	2392020	50.0000	50
50 2,4-Dinitrophenol	184	13.096	13.096	(1.014)	370801	50.0000	54
51 4-Nitrophenol	109	13.283	13.283	(1.029)	289316	50.0000	42
53 2,4-Dinitrotoluene	165	13.369	13.369	(1.036)	826051	50.0000	49
52 Dibenzofuran	168	13.331	13.331	(1.033)	3257353	50.0000	48
54 Diethylphthalate	149	13.908	13.908	(1.077)	2641750	50.0000	51
56 4-Chlorophenyl-phenylether	204	14.074	14.074	(1.090)	1304313	50.0000	50
55 Fluorene	166	14.026	14.026	(1.086)	2883086	50.0000	48
57 4-Nitroaniline	138	14.122	14.122	(1.094)	316585	50.0000	23(H)
58 4,6-Dinitro-2-methylphenol	198	14.186	14.186	(0.886)	551684	50.0000	54(Q)
59 N-Nitrosodiphenylamine	169	14.325	14.325	(0.894)	1533430	50.0000	42(H)
$ 60 2,4,6-Tribromophenol	330	14.512	14.512	(0.906)	437556	50.0000	59
61 4-Bromophenyl-phenylether	248	15.057	15.057	(0.940)	816708	50.0000	54(H)
62 Hexachlorobenzene	284	15.121	15.121	(0.944)	868844	50.0000	57
63 Pentachlorophenol	266	15.543	15.543	(0.970)	578125	50.0000	57
* 64 Phenanthrene-d10	188	15.913	15.912	(1.000)	2511273	40.0000	(H)
65 Phenanthrene	178	15.960	15.960	(0.998)	3655547	50.0000	50(H)
66 Anthracene	178	16.061	16.061	(1.003)	3674133	50.0000	49
67 Carbazole	167	16.414	16.414	(1.025)	1189841	50.0000	19
68 Di-n-butylphthalate	149	17.247	17.247	(1.077)	4489032	50.0000	52
69 Fluoranthene	202	18.364	18.364	(1.146)	4012229	50.0000	53
71 Pyrene	202	18.807	18.807	(0.984)	4147252	50.0000	50
$ 72 Terphenyl-d14	244	19.213	19.213	(0.903)	3060384	50.0000	51
73 Butylbenzylphthalate	149	20.282	20.282	(0.953)	1976539	50.0000	50
74 3,3'-Dichlorobenzidine	252	21.265	21.265	(0.999)	1045288	50.0000	37
75 Benzo(a)anthracene	228	21.259	21.259	(0.999)	4014636	50.0000	50
* 76 Chrysene-d12	240	21.281	21.281	(1.000)	2805391	40.0000	
78 bis(2-Ethylhexyl)phthalate	149	21.500	21.500	(1.010)	2905691	50.0000	49
77 Chrysene	228	21.334	21.334	(1.002)	3628686	50.0000	49
79 Di-n-octylphthalate	149	22.760	22.760	(0.950)	4705752	50.0000	51
80 Benzo(b)fluoranthene	252	23.295	23.295	(0.973)	3863241	50.0000	49
81 Benzo(k)fluoranthene	252	23.348	23.348	(0.975)	3466905	50.0000	50

000542

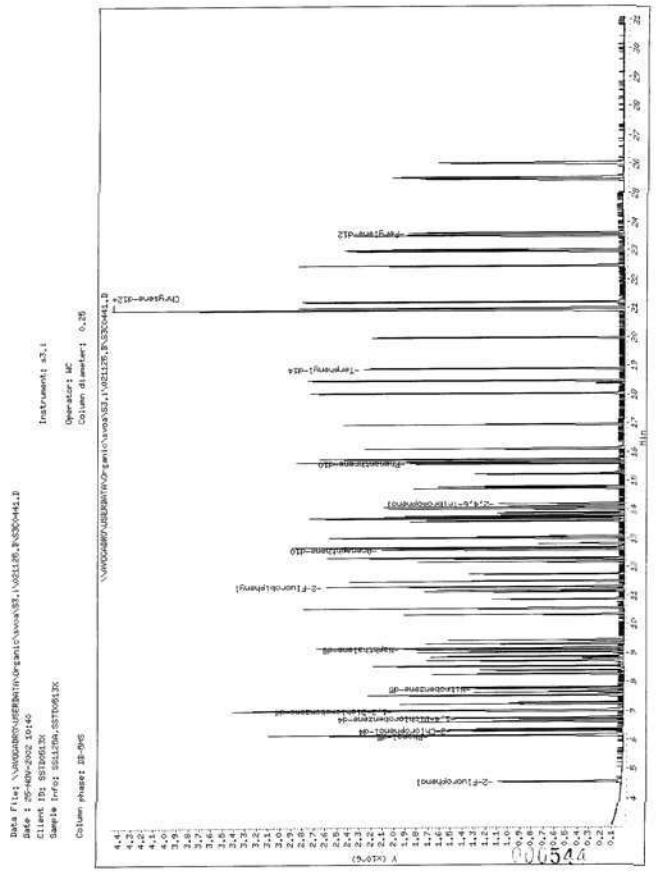
Data File: S3C0375.D
Report Date: 22-Nov-2002 08:50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
82 Benzo(a)pyrene	252	23.855	23.855	(0.996)	9507451	50.0000	49
* 83 Perylene-d12	264	23.946	23.946	(1.000)	1898689	40.0000	
84 Indeno(1,2,3-cd)pyrene	276	25.976	25.976	(1.085)	3606643	50.0000	46(H)
85 Dibenzo(a,h)anthracene	278	26.040	26.040	(1.087)	3553233	50.0000	46
86 Benzo(g,h,i)perylene	276	26.575	26.575	(1.110)	3451970	50.0000	46

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

11/21/02



Data File: S3C0441.D
Report Date: 25-Nov-2002 11:56

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021125.B\S3C0441.D
Lab Smp Id: SS1125A Client Smp ID: SSTD0513X
Inj Date : 25-NOV-2002 10:40
Operator : WC Inst ID: s3.i
Smp Info : SS1125A,SSTD0513X
Misc Info : 2,3,SSTD0501,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021125.B\S3_8270C.m
Meth Date : 25-Nov-2002 11:56 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
$	4 2-Fluorophenol	112	4.572	4.572	(0.477)	652777	50.0000	50
$	5 Phenol-d5	99	4.164	4.164	(0.919)	837496	50.0000	50
	6 Phenol	94	4.185	4.185	(0.916)	909756	50.0000	53
	7 Aniline	93	4.185	4.185	(0.916)	919255	50.0000	50
	8 bis(2-Chloroethyl)Ether	93	4.330	4.330	(0.937)	637111	50.0000	47
$	9 2-Chlorophenol-d4	132	4.351	4.351	(0.941)	693568	50.0000	53
	10 2-Chlorophenol	128	4.383	4.383	(0.945)	687027	50.0000	52
	11 1,3-Dichlorobenzene	146	4.645	4.645	(0.994)	718929	50.0000	52
*	12 1,4-Dichlorobenzene-d4	152	4.752	4.752	(1.000)	370543	40.0000	
	13 1,4-Dichlorobenzene	146	4.784	4.784	(1.005)	748803	50.0000	52
	15 Benzyl Alcohol	108	7.040	7.040	(1.063)	461183	50.0000	55
$	14 1,2-Dichlorobenzene-d4	152	7.019	7.019	(1.060)	417141	50.0000	51
	16 1,2-Dichlorobenzene	146	7.045	7.045	(1.064)	663959	50.0000	51
	17 2-Methylphenol	108	7.265	7.265	(1.076)	593179	50.0000	52
	18 2,2'-oxybis(1-Chloropropane)	45	7.302	7.302	(1.081)	970423	50.0000	52
	20 4-Methylphenol	108	7.558	7.558	(1.119)	661233	50.0000	51
	19 N-Nitroso-di-n-propylamine	70	7.542	7.542	(1.117)	937626	50.0000	48
	21 Hexachloroethane	117	7.654	7.654	(1.134)	264342	50.0000	51
$	22 Nitrobenzene-d5	82	7.777	7.777	(0.853)	653174	50.0000	48
	23 Nitrobenzene	77	7.815	7.815	(0.856)	673269	50.0000	47
	24 Isophorone	82	8.295	8.295	(0.908)	1130269	50.0000	48
	25 2-Nitrophenol	139	8.413	8.413	(0.922)	376486	50.0000	52
	26 2,4-Dimethylphenol	107	8.563	8.563	(0.938)	606340	50.0000	49
	28 Benzoic Acid	105	8.840	8.840	(0.968)	479567	50.0000	50
	27 bis(2-Chloroethoxy)methane	93	8.750	8.750	(0.958)	762550	50.0000	48
	29 2,4-Dichlorophenol	162	8.888	8.888	(0.974)	525466	50.0000	52

Data File: S3C0441.D
Report Date: 25-Nov-2002 11:56

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
4 3&4-Methylphenol	108	7.558	7.558	(1.119)	661223	50.0000	
30 1,2,4-Trichlorobenzene	180	9.033	9.033	(0.989)	528251	50.0000	50
* 31 Naphthalene-d8	136	9.129	9.129	(1.000)	1313881	40.0000	
32 Naphthalene	128	9.172	9.172	(1.005)	1908287	50.0000	52
33 4-Chloroaniline	127	9.316	9.316	(1.020)	788893	50.0000	54
34 Hexachlorobutadiene	225	9.439	9.439	(1.034)	257765	50.0000	47
94 o-Toluic acid	91	9.316	9.316	(1.020)	42621	50.0000	
95 m-Toluic acid	91	10.545	10.545	(1.155)	15541	50.0000	
96 p-Toluic acid	91	10.545	10.545	(1.155)	15541	50.0000	
35 4-Chloro-3-Methylphenol	107	10.331	10.331	(1.132)	547422	50.0000	50
36 2-Methylnaphthalene	142	10.545	10.545	(1.155)	1281626	50.0000	51
37 1-Methylnaphthalene	142	10.331	10.331	(1.132)	477575	50.0000	19
38 Hexachlorocyclopentadiene	237	10.845	10.845	(0.861)	282891	50.0000	49
39 2,4,6-Trichlorophenol	196	11.133	11.133	(0.883)	349602	50.0000	50
40 2,4,5-Trichlorophenol	196	11.196	11.196	(0.888)	366525	50.0000	49
$ 41 2-Fluorobiphenyl	172	11.314	11.314	(0.897)	1271887	50.0000	50
42 2-Chloronaphthalene	162	11.506	11.506	(0.913)	1101413	50.0000	51
43 2-Nitroaniline	65	11.752	11.752	(0.932)	367771	50.0000	48
44 Dimethylphthalate	163	12.185	12.185	(0.966)	1284227	50.0000	52
45 2,6-Dinitrotoluene	165	12.281	12.281	(0.974)	316195	50.0000	52
46 Acenaphthylene	152	13.323	13.323	(0.977)	1888982	50.0000	52
47 3-Nitroaniline	138	12.591	12.591	(0.998)	356075	50.0000	53
* 48 Acenaphthene-d10	164	12.612	12.612	(1.000)	728343	40.0000	
49 Acenaphthene	153	12.676	12.676	(1.005)	1136222	50.0000	50
50 2,4-Dinitrophenol	184	12.815	12.815	(1.016)	189007	50.0000	58
51 4-Nitrophenol	109	13.013	13.013	(1.032)	154270	50.0000	48
53 2,4-Dinitrotoluene	165	13.082	13.082	(1.037)	405345	50.0000	51
52 Dibenzofuran	168	13.034	13.034	(1.033)	1619118	50.0000	51
54 Diethylphthalate	149	13.627	13.627	(1.080)	1260193	50.0000	52
55 Fluorene	166	13.723	13.723	(1.088)	1302147	50.0000	50
56 4-Chlorophenyl-phenylether	204	13.777	13.777	(1.092)	563376	50.0000	44
57 4-Nitroaniline	138	13.825	13.825	(1.096)	355761	50.0000	55
58 4,6-Dinitro-2-methylphenol	198	13.894	13.894	(0.891)	259839	50.0000	54(Q)
59 N-Nitrosodiphenylamine	169	14.028	14.028	(0.899)	892530	50.0000	51
$ 60 2,4,6-Tribromophenol	330	14.209	14.209	(0.911)	218449	50.0000	59
61 4-Bromophenyl-phenylether	248	14.754	14.754	(0.946)	336790	50.0000	47
62 Hexachlorobenzene	284	14.813	14.813	(0.950)	372600	50.0000	51
63 Pentachlorophenol	266	15.240	15.240	(0.977)	250675	50.0000	52
* 64 Phenanthrene-d10	188	15.598	15.598	(1.000)	1191758	40.0000	
65 Phenanthrene	178	15.646	15.646	(1.003)	1770921	50.0000	52
66 Anthracene	178	15.748	15.748	(1.010)	1819041	50.0000	51
67 Carbazole	167	16.116	16.116	(1.033)	1557540	50.0000	52
68 Di-n-butylphthalate	149	16.955	16.955	(1.087)	2193511	50.0000	53
69 Fluoranthene	202	18.045	18.045	(1.157)	1818674	50.0000	49
71 Pyrene	202	18.488	18.488	(0.893)	1914427	50.0000	55
$ 72 Terphenyl-d14	244	18.900	18.900	(0.902)	1313476	50.0000	52
73 Butylbenzylphthalate	149	19.973	19.973	(0.953)	947889	50.0000	58

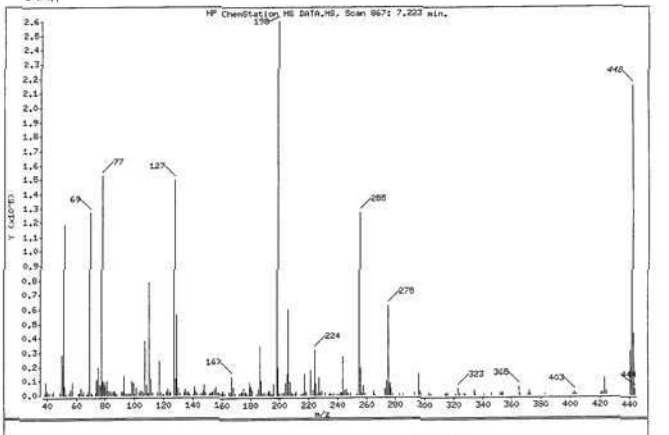
Data File: S3C0441.D
Report Date: 25-Nov-2002 11:56

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
74 3,3'-Dichlorobenzidine	252	20.944	20.944	(1.000)	641173	50.0000	53
75 Benzo(a)anthracene	228	20.930	20.930	(0.999)	1659465	50.0000	49
* 76 Chrysene-d12	240	20.951	20.951	(1.000)	1174295	40.0000	
77 Chrysene	228	20.998	20.998	(1.002)	1591843	50.0000	51
78 bis(2-Ethylhexyl)phthalate	149	21.202	21.202	(1.012)	1380302	50.0000	54
79 Di-n-octylphthalate	149	22.457	22.457	(0.953)	4377032	50.0000	52
80 Benzo(b)fluoranthene	252	22.960	22.960	(0.972)	1811479	50.0000	48
81 Benzo(k)fluoranthene	252	23.013	23.013	(0.975)	1675216	50.0000	49
82 Benzo(a)pyrene	252	23.515	23.515	(0.996)	1692621	50.0000	48
* 83 Perylene-d12	264	23.611	23.611	(1.000)	926050	40.0000	
70 Benzidine	184	20.946	20.946	(3.103)	9822	50.0000	34
84 Indeno(1,2,3-cd)pyrene	276	25.492	25.492	(1.080)	1830108	50.0000	48
85 Dibenzo(a,h)anthracene	278	25.551	25.551	(1.082)	1791448	50.0000	48
86 Benzo(g,h,i)perylene	276	26.037	26.037	(1.103)	1806497	50.0000	50

QC Flag Legend

Q - Qualifier signal failed the ratio test.

11/26/02



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	45.39
68	Less than 2.00% of mass 69	0.53 (1.91)
69	Mass 69 relative abundance	48.63
70	Less than 2.00% of mass 69	0.35 (0.72)
127	40.00 - 60.00% of mass 198	57.34
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.41
275	10.00 - 30.00% of mass 198	23.91
365	Greater than 1.00% of mass 198	2.37
441	Present, but less than mass 443	11.90
442	40.00 - 99.99% of mass 198	82.81
443	17.00 - 23.00% of mass 442	16.66 (20.19)

Data File: S3C0229.D
Spectrum: HP ChemStation MS DATA.MS, Scan 867: 7.223 min.
Location of Maximum: 198.00
Number of points: 220

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.10	1483	108.00	7160	179.00	798	255.00	126440
39.10	9124	109.10	1374	179.00	9179	256.00	13392
40.10	2295	110.00	78392	180.00	6235	257.00	1499
41.10	1237	111.10	11566	181.00	3405	258.00	6728
43.10	1183	112.10	1742	184.00	791	259.00	1227
44.10	2404	116.00	2055	185.00	4347	265.00	2808
49.10	1617	117.00	24008	186.00	34740	265.90	574
50.10	28336	118.00	1867	187.00	10013	273.00	4224
51.10	118280	119.10	548	188.00	1194	274.00	10024
52.10	6108	120.00	732	189.00	1766	275.00	62304
53.10	537	122.00	2516	191.10	1220	276.00	8487
55.10	1378	123.00	3994	192.00	2781	277.00	4976
56.10	3804	124.10	1820	193.00	2969	278.00	774
57.10	8983	125.00	1932	194.00	964	283.00	729
61.10	1492	127.00	149440	195.10	543	288.00	692
62.10	1381	128.00	11468	196.00	7967	292.90	1211
63.10	4733	129.00	56264	198.00	260608	296.00	15111
64.10	640	130.00	5047	199.00	19312	297.00	2329
65.10	2436	131.00	910	200.00	1233	303.00	1550
67.10	500	134.00	1746	201.50	1096	304.00	728
68.10	2417	135.00	4146	203.00	1790	313.90	897
69.00	126744	136.00	1774	204.00	8239	314.90	1371
70.10	908	137.10	2275	205.00	14783	316.00	1180
71.10	790	137.80	633	206.00	89984	321.00	604
73.10	1235	140.10	747	207.00	9396	323.00	4603
74.10	11072	141.00	6262	208.00	1885	324.00	1196
75.10	19464	142.00	2374	209.00	764	327.00	905
76.10	7128	143.00	1484	210.30	1214	328.00	625
77.10	152320	145.10	568	211.00	2678	334.00	3637
78.10	19212	146.10	933	214.90	690	335.00	845
79.10	8760	147.00	3186	216.00	1384	341.00	697
80.00	4606	148.00	7091	217.00	14784	346.00	1234
81.10	10340	149.00	1467	218.00	2136	352.00	1537
82.10	2898	151.20	901	221.00	17400	353.00	1065
83.10	2949	151.80	653	223.00	3682	354.00	1668

Data File: S3C0229.D
Spectrum: HP ChemStation MS DATA.MS, Scan 867: 7.223 min.
Location of Maximum: 198.00
Number of points: 220

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	1337	152.00	2031	224.00	31896	364.90	6176
85.10	2289	154.00	1816	225.00	8957	368.90	798
86.00	2965	155.00	3785	226.00	977	370.90	606
87.00	1283	156.00	5693	227.00	12735	372.00	3181
88.10	618	157.10	1249	228.00	2008	373.00	726
91.10	2331	158.00	1458	229.00	2949	393.00	883
92.00	2389	159.10	1029	231.00	1573	401.90	1001
93.00	13819	160.00	1903	234.00	898	402.90	1946
94.10	1367	161.00	2951	235.00	929	403.90	646
95.10	802	162.00	948	235.90	619	421.00	1498
96.10	1176	165.00	2384	237.00	1036	422.00	1617
97.10	791	166.10	2047	239.00	562	423.00	12268
98.00	9668	167.00	12966	241.00	741	424.00	2467
99.10	8300	168.00	8189	242.00	1889	441.00	31016
100.00	648	169.00	1072	243.00	1843	442.00	215040
101.10	5954	172.00	908	244.00	27064	443.00	43424
103.00	1660	173.00	1638	245.10	3356	444.00	4269
104.00	3209	174.00	2645	246.00	4346		
105.10	3199	175.00	5061	247.00	1023		
106.00	1000	176.00	2098	249.00	1122		
107.00	37948	177.00	1863	253.00	689		

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021112_8270_lcal.B\S3C0229.D

Date : 12-NOV-2002 16:28

Client ID: DFTPP3K

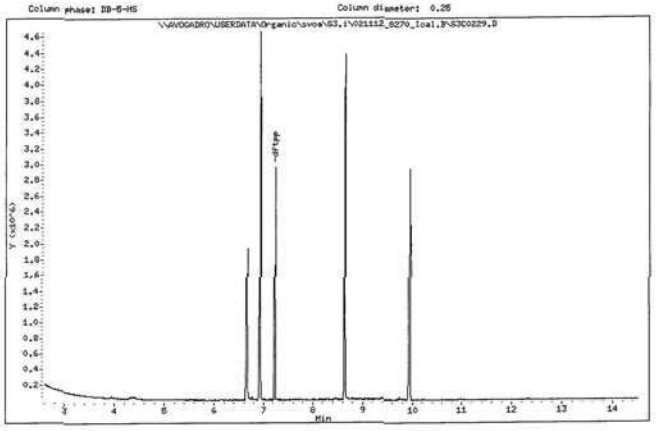
Instrument: S3.i

Sample Info: STI112B,DFTPP3K

Operator: MC

Column phase: DB-5-MS

Column diameter: 0.25



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3C0256.D

Date : 13-NOV-2002 11:25

Client ID: DFTPP3H

Instrument: S3.i

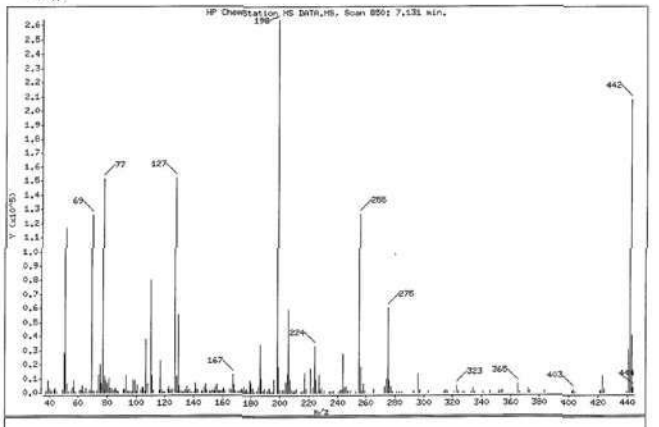
Sample Info: STI113A,DFTPP3H

Operator: MC

Column phase: DB-5-MS

Column diameter: 0.25

1 DFTPP



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	44.35
68	Less than 2.00% of mass 69	0.75 (1.57)
69	Mass 69 relative abundance	47.65
70	Less than 2.00% of mass 69	0.44 (0.91)
127	40.00 - 60.00% of mass 198	57.56
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.98
275	10.00 - 30.00% of mass 198	22.90
365	Greater than 1.00% of mass 198	2.28
441	Present, but less than mass 442	11.63
442	40.00 - 99.99% of mass 198	78.78
443	17.00 - 23.00% of mass 442	18.40 (19.65)

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3C0256.D

Date : 13-NOV-2002 11:25

Client ID: DFTPP3H

Instrument: S3.i

Sample Info: STI113A,DFTPP3H

Operator: MC

Column phase: DB-5-MS

Column diameter: 0.25

Data File: S3C0256.D
Spectrum: HP ChemStation MS DATA.MS, Scan 950: 7.131 min.
Location of Maximum: 198.00
Number of points: 225

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	569	106.10	1004	175.10	4343	249.00	988
38.10	1461	107.00	37728	176.00	2014	252.90	894
39.10	8497	108.10	6213	177.00	2313	255.00	126192
40.10	2736	110.00	80312	178.10	983	256.00	19008
41.20	1203	111.00	11997	179.00	8806	257.00	1330
43.20	1979	112.00	1767	180.00	6509	268.00	8867
44.10	2060	116.10	2028	181.00	3062	269.10	1035
45.10	547	117.00	22456	182.20	647	265.00	2563
49.10	1929	118.10	1608	184.10	1071	273.00	4154
50.10	28232	119.10	669	185.00	4117	274.00	9060
51.10	117032	120.00	668	186.00	33928	275.00	60416
52.10	6041	122.00	2605	187.10	9638	276.00	8272
53.10	626	123.00	4287	188.10	1014	277.00	4316
55.10	1679	124.00	1770	189.00	2173	278.00	689
56.10	3700	125.10	2309	191.00	1106	281.10	826
57.10	8502	127.00	151872	192.00	2684	283.00	810
58.00	648	128.10	11736	193.00	3049	286.00	741
61.10	1697	129.00	55032	194.00	746	293.00	1118
62.10	1744	130.00	4861	195.00	851	296.00	13277
63.10	4998	131.10	1119	196.00	8921	297.00	1776
64.10	658	132.00	614	198.00	263872	303.00	1468
65.10	3292	133.10	762	199.00	18424	314.00	675
67.10	672	134.00	1446	200.00	1561	314.90	1726
68.10	1971	135.00	4123	201.50	1657	316.00	991
69.10	125736	136.00	2000	203.00	1633	321.10	579
70.10	1148	137.10	2891	204.00	7328	323.00	4667
71.10	940	138.00	652	205.00	12926	324.00	924
73.10	1506	140.10	863	206.00	89064	326.90	860
74.10	12207	141.00	6439	207.00	9215	328.00	538
75.10	20216	142.00	2137	208.00	2087	333.00	674
76.10	6518	143.00	1636	209.10	693	334.00	2917
77.10	181360	145.10	640	210.20	1357	335.00	876
78.10	11363	146.00	1181	211.00	2498	341.00	719
79.10	8673	147.00	3431	215.00	659	345.90	1092
80.00	6531	148.00	6056	216.10	1429	352.00	1322

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3C0256.D

Date : 13-NOV-2002 11:25

Client ID: DFTPP3H

Instrument: S3.i

Sample Info: STI113A,DFTPP3H

Operator: MC

Column phase: DB-5-MS

Column diameter: 0.25

Data File: S3C0256.D
Spectrum: HP ChemStation MS DATA.MS, Scan 950: 7.131 min.
Location of Maximum: 198.00
Number of points: 225

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.10	9817	149.10	1764	217.00	13809	353.00	870
82.00	2779	151.10	1135	218.00	2192	354.00	1923
83.10	2856	152.00	997	221.00	16976	365.00	6015
84.00	1528	153.00	2122	223.00	3680	365.90	814
85.10	2203	154.00	1496	224.00	32584	372.00	2684
86.00	2972	155.00	3736	225.00	9028	373.00	933
87.00	1292	156.10	5473	226.00	804	383.00	1006
88.00	590	157.00	1321	227.00	12669	402.00	999
91.00	2609	158.00	1154	228.00	1939	403.00	1586
92.10	2243	159.00	1171	229.00	2964	404.00	762
93.10	12372	160.00	1733	231.00	1369	421.00	1466
94.10	1090	161.00	3125	234.10	763	421.90	1379
95.10	806	162.00	1034	235.00	889	423.00	11754
96.10	1142	165.00	2270	235.90	620	424.00	2301
97.10	862	166.10	1896	237.00	967	439.70	502
98.10	9241	167.00	12492	241.00	678	441.00	30688
99.10	8209	168.00	5680	242.00	1681	442.00	207872
100.10	1038	169.00	1071	243.00	1944	443.00	40840
101.00	5670	171.00	713	244.00	27112	444.00	3848
103.10	1963	172.00	1127	245.00	3772		
104.10	3467	173.00	1662	246.00	4213		
105.00	3478	174.00	2651	247.10	1094		

Data File: \\AVOGADRO\USERDATA\Organic\avoa\S3.i\021113.B\S3C0256.D

Page 1

Date : 13-NOV-2002 11:25

Client ID: DFTPP3H

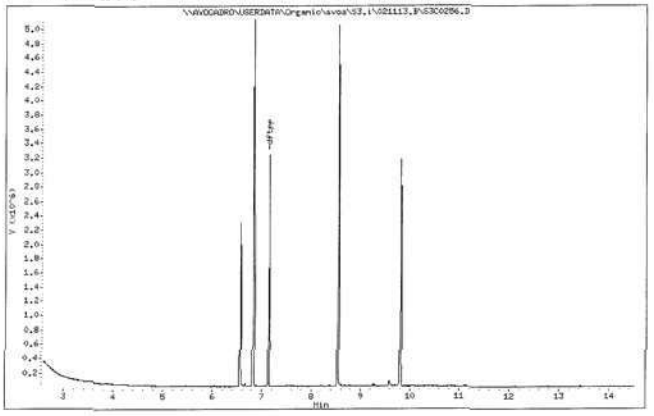
Instrument: S3.i

Sample Info: ST1113A,DFTPP3H

Operator: MC

Column phase: DB-5-MS

Column diameter: 0.25



000555

Data File: \\AVOGADRO\USERDATA\Organic\avoa\S3.i\021118.B\S3C0324.D

Page 2

Date : 18-NOV-2002 10:48

Client ID: DFTPP3R

Instrument: S3.i

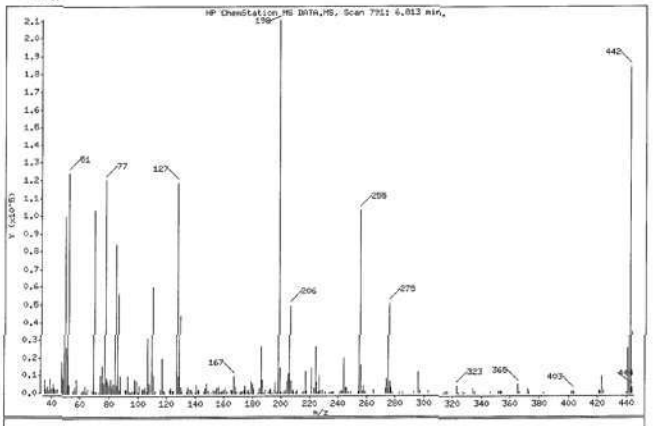
Sample Info: ST1118A,DFTPP3R

Operator: MC

Column phase: DB-5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	50.90
68	Less than 2.00% of mass 69	0.73 (1.50)
69	Mass 69 relative abundance	48.99
70	Less than 2.00% of mass 69	0.84 (1.10)
127	40.00 - 60.00% of mass 198	56.36
197	Less than 1.00% of mass 198	0.50
199	5.00 - 9.00% of mass 198	6.83
275	10.00 - 30.00% of mass 198	24.27
365	Greater than 1.00% of mass 198	2.62
441	Present, but less than mass 443	12.21
442	40.00 - 99.99% of mass 198	97.82
443	17.00 - 23.00% of mass 442	16.57 (16.93)

000556

Data File: \\AVOGADRO\USERDATA\Organic\avoa\S3.i\021118.B\S3C0324.D

Page 3

Date : 18-NOV-2002 10:48

Client ID: DFTPP3R

Instrument: S3.i

Sample Info: ST1118A,DFTPP3R

Operator: MC

Column phase: DB-5-MS

Column diameter: 0.25

Data File: S3C0324.D
Spectrum: HP ChemStation MS DATA.MS, Scan 791: 6.813 min.
Location of Maximum: 198.00
Number of points: 217

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	7486	103.00	1710	178.10	4184	247.00	908
36.10	2061	104.00	2640	176.00	1462	248.00	795
37.10	3251	105.10	2729	177.00	1887	252.90	734
38.10	1667	106.00	922	178.00	665	255.00	103624
39.10	7715	107.10	31480	179.00	7016	256.00	15897
40.10	2325	108.10	5163	180.00	5301	257.00	1857
41.10	4698	110.00	60344	181.00	2626	258.00	4461
42.10	2527	111.00	9989	184.00	671	259.00	1021
43.10	1566	112.00	1176	185.00	3109	265.00	2067
44.10	1844	116.10	2035	186.10	26000	273.00	2943
47.10	17512	117.00	20072	187.00	7538	274.00	8396
48.10	8059	118.00	1437	188.10	717	275.00	61168
49.10	99952	119.00	522	189.00	1826	276.00	5412
50.10	26168	122.10	1724	191.00	768	277.00	3873
51.10	124168	123.00	2135	192.00	1927	277.90	714
52.10	5062	124.00	1478	193.00	2603	283.00	538
55.10	1501	125.00	1404	193.90	516	295.00	629
56.10	3306	127.10	118824	196.00	6477	297.00	1080
57.10	7894	128.10	9947	196.90	1052	296.00	12114
61.10	1161	129.00	44024	198.00	210816	297.00	1697
62.10	1491	130.00	3571	199.00	14409	303.00	1480
63.10	4097	131.00	932	200.00	1136	314.00	667
64.10	538	134.10	1010	201.60	1089	315.00	1366
65.10	2196	135.00	3312	203.00	1347	316.00	1017
68.10	1546	136.00	1709	204.10	6790	323.00	4348
69.10	103272	137.00	1917	205.00	11223	324.10	594
70.10	1136	138.00	543	206.00	50128	327.00	892
71.10	966	140.10	812	207.10	7269	327.90	540
73.10	1064	141.00	4712	208.00	1902	334.00	2895
74.10	10217	142.00	2981	209.00	742	335.10	829
75.10	15696	142.90	1506	210.40	917	341.10	682
76.10	5686	146.10	1043	211.00	1804	346.00	981
77.10	120232	147.00	2761	214.90	672	352.10	1267
78.10	8690	148.00	8811	216.00	981	353.00	924
79.10	6809	149.00	1322	217.00	12634	354.00	1400

000557

Data File: \\AVOGADRO\USERDATA\Organic\avoa\S3.i\021118.B\S3C0324.D

Page 4

Date : 18-NOV-2002 10:48

Client ID: DFTPP3R

Instrument: S3.i

Sample Info: ST1118A,DFTPP3R

Operator: MC

Column phase: DB-5-MS

Column diameter: 0.25

Data File: S3C0324.D
Spectrum: HP ChemStation MS DATA.MS, Scan 791: 6.813 min.
Location of Maximum: 198.00
Number of points: 217

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.10	4896	151.20	651	218.00	1594	365.00	5519
81.10	7920	153.00	1640	221.10	14441	366.00	800
82.00	3283	154.00	1428	223.00	2981	372.00	2505
83.00	5198	155.00	2924	224.10	26432	373.00	576
84.00	83944	156.10	4093	225.10	6425	383.00	685
85.10	4356	157.10	708	226.00	892	402.00	1102
86.00	86728	157.90	1015	227.00	9364	403.00	1475
87.10	1740	159.00	855	228.10	1429	404.00	519
88.00	9740	160.00	1819	229.00	2142	421.00	1310
91.10	1891	161.00	2694	231.00	780	422.00	1432
92.10	1734	162.10	831	234.00	555	423.00	9585
93.10	9872	165.10	2092	235.00	667	424.00	2042
94.10	734	166.00	1614	235.90	566	440.00	519
95.20	584	167.00	9699	237.00	972	441.00	25744
96.10	927	168.00	2951	241.00	591	442.00	184512
97.10	633	169.10	982	242.00	1520	443.00	34934
98.10	7761	171.20	824	243.00	1428	444.00	3227
99.10	6914	172.00	1063	244.00	20200		
100.10	502	173.00	1149	245.00	3430		
101.10	4538	174.00	2070	246.00	3836		

000558

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021118.B\S3C0324.D

Page 1

Date : 18-NOV-2002 10:48

Client ID: DFTPP3H

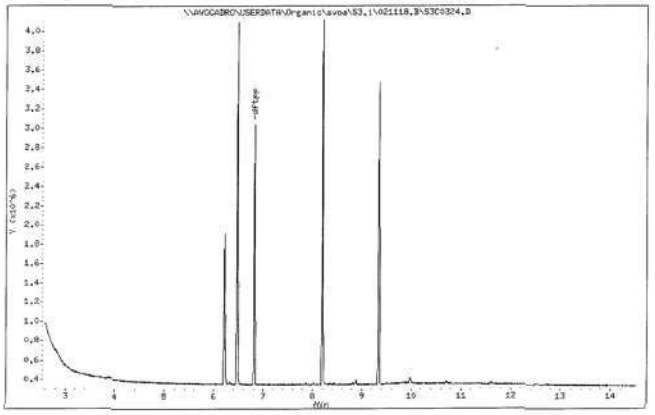
Instrument: S3.i

Sample Info: ST1118A,DFTPP3H

Operator: WC

Column phase: DB-5-MS

Column diameter: 0.25



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021119.B\S3C0344.D

Page 2

Date : 19-NOV-2002 10:25

Client ID: DFTPP3S

Instrument: S3.i

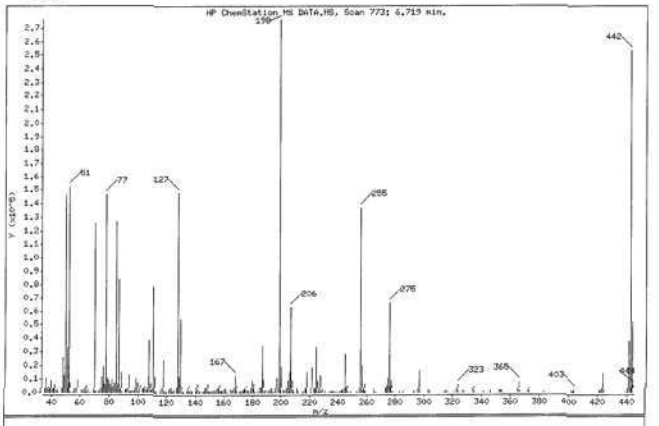
Sample Info: ST1119A,DFTPP3S

Operator: WC

Column phase: DB-5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	54.96
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	46.37
70	Less than 2.00% of mass 69	0.52 (1.15)
127	40.00 - 60.00% of mass 198	53.47
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.80
275	10.00 - 30.00% of mass 198	23.90
365	Greater than 1.00% of mass 198	2.67
441	Present, but less than mass 443	13.84
442	40.00 - 99.99% of mass 198	91.71
443	17.00 - 23.00% of mass 442	18.87 (20.58)

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021119.B\S3C0344.D

Page 3

Date : 19-NOV-2002 10:25

Client ID: DFTPP3S

Instrument: S3.i

Sample Info: ST1119A,DFTPP3S

Operator: WC

Column phase: DB-5-MS

Column diameter: 0.25

Data File: S3C0344.D
Spectrum: HP ChemStation MS DATA.MS, Scan 773: 6.719 min.
Location of Maximum: 198.00
Number of points: 231

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.10	11123	104.00	3689	172.00	1091	245.00	4054
36.10	3062	105.10	3126	173.00	1401	246.00	4802
37.10	4437	106.10	963	174.00	2550	247.00	1913
39.10	2531	107.00	28400	175.10	4930	249.00	736
39.10	8862	108.10	6677	176.10	2029	253.00	523
40.10	2349	109.10	1448	177.00	1923	265.00	137152
41.10	5449	110.00	78384	178.00	856	256.00	20024
42.10	3162	111.00	12030	179.00	9164	257.00	1488
43.10	1721	112.10	1271	180.00	6168	258.00	6647
44.10	2063	113.00	642	181.00	3268	259.00	1267
47.10	25768	116.10	1853	182.00	547	265.00	2834
48.10	12964	117.00	23884	184.00	902	266.00	778
49.10	146688	118.00	1824	185.00	4178	273.00	4676
50.10	33184	119.10	634	186.10	34648	274.00	11074
51.10	151872	120.00	820	187.00	9791	275.00	66048
52.10	6974	122.00	2462	188.00	1145	276.00	8932
53.10	571	123.00	3857	189.00	2652	277.00	4463
55.10	1451	124.00	1365	191.10	1037	278.00	635
56.10	3497	125.10	2022	192.00	2652	283.00	600
57.10	9424	127.10	147776	193.10	3161	285.10	376
61.10	1633	128.00	12342	194.00	629	293.00	1109
62.10	1592	129.00	54008	195.00	549	296.00	15604
63.10	5192	130.00	4469	196.10	10677	297.00	2160
64.10	697	131.10	928	198.00	276352	303.00	1068
68.10	2605	132.00	676	199.00	18800	304.10	582
67.10	513	134.00	1456	200.00	1597	314.00	702
69.10	125392	135.00	4868	201.80	1760	314.90	1563
70.10	1436	136.00	1521	203.10	1735	316.00	1219
71.20	824	137.10	2173	204.00	8762	321.00	761
73.10	1102	138.10	569	205.00	15020	323.00	5766
74.10	11171	140.00	546	206.10	63216	324.10	1031
75.10	18856	141.00	6529	207.00	9718	327.00	1345
76.10	6457	142.00	2074	208.00	2367	329.00	752
77.10	146688	142.10	1472	209.00	827	334.00	3681
78.10	10684	146.00	595	211.00	2961	338.00	816

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021119.B\S3C0344.D

Page 4

Date : 19-NOV-2002 10:25

Client ID: DFTPP3S

Instrument: S3.i

Sample Info: ST1119A,DFTPP3S

Operator: WC

Column phase: DB-5-MS

Column diameter: 0.25

Data File: S3C0344.D
Spectrum: HP ChemStation MS DATA.MS, Scan 773: 6.719 min.
Location of Maximum: 198.00
Number of points: 231

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.10	8630	146.10	1271	211.90	537	341.00	609
80.10	6382	147.00	3534	215.00	841	346.00	1441
81.10	9659	148.00	6813	216.00	1340	352.00	1614
82.00	3956	149.00	1514	217.00	15600	353.10	990
83.10	6862	149.90	535	218.00	2436	354.00	1908
84.00	126448	151.00	1329	221.00	18288	365.00	7373
85.10	4067	152.10	951	223.00	3417	366.00	1176
86.00	83840	153.00	2116	224.00	33304	372.00	2998
87.10	2905	154.00	1580	225.00	8441	373.00	874
89.00	14468	155.00	3493	226.00	906	382.90	703
89.00	523	156.10	5443	227.00	13010	402.00	1241
91.10	1965	157.00	1406	229.00	2223	403.00	2052
92.10	2249	158.00	964	229.00	2709	404.00	772
93.10	12972	159.00	984	231.10	1136	421.00	1499
94.10	1040	160.00	2460	234.00	900	422.00	1754
95.10	910	161.00	3045	235.00	1015	423.00	13916
96.10	1115	162.10	806	236.00	727	424.00	2669
97.10	716	168.00	2567	237.00	1249	439.70	780
98.10	9918	166.00	1701	230.90	513	441.00	37408
99.10	7261	167.00	11850	241.00	749	442.00	253440
100.10	820	168.00	5021	242.10	1042	443.00	51328
101.10	5403	169.10	1216	243.00	2083	444.00	4853
103.00	1819	170.80	662	244.00	27992		

Data File: \\AVOGADRO\USERDATA\Organic\avoa\S3.1\021119.B\S3C0344.D

Date : 19-NOV-2002 10:25

Client ID: BFTPP3U

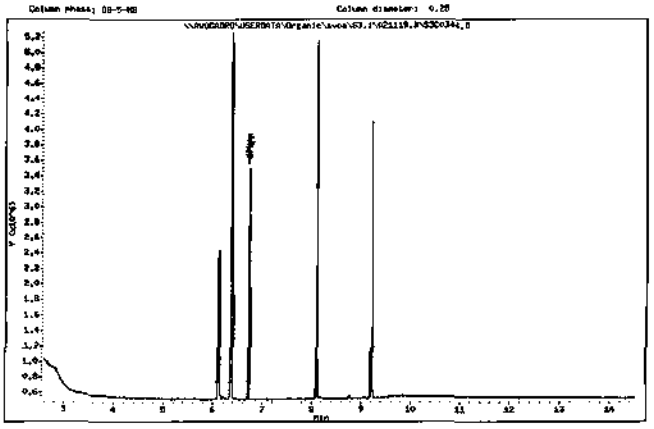
Instrument: S3.1

Sample Info: ST11194,BFTPP3U

Operator: MC

Column phase: DB-5-MS

Column diameter: 0.25



Data File: \\AVOGADRO\USERDATA\Organic\avoa\S3.1\021121.B\S3C0374.D

Date : 21-NOV-2002 10:57

Client ID: BFTPP3U

Instrument: S3.1

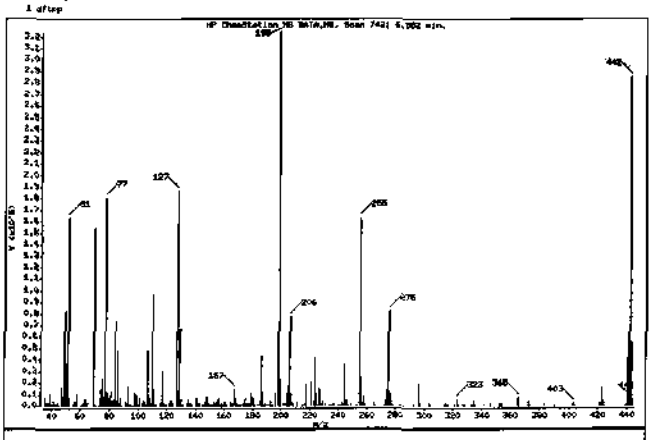
Sample Info: ST11216,BFTPP3U

Operator: MC

Column phase: DB-5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	50.49
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	47.74
70	Less than 2.00% of mass 69	0.38 (0.79)
127	40.00 - 60.00% of mass 198	57.82
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.19
275	10.00 - 30.00% of mass 198	25.39
365	Greater than 1.00% of mass 198	2.35
441	Present, but less than mass 442	12.89
442	40.00 - 97.00% of mass 198	87.97
443	17.00 - 23.00% of mass 442	17.14 (19.49)

Data File: \\AVOGADRO\USERDATA\Organic\avoa\S3.1\021121.B\S3C0374.D

Date : 21-NOV-2002 10:57

Client ID: BFTPP3U

Instrument: S3.1

Sample Info: ST11216,BFTPP3U

Operator: MC

Column phase: DB-5-MS

Column diameter: 0.25

Data File: S3C0374.D
Spectrum: HP ChemStation/MS Data/MS, Scan 7421 6.382 min,
Location of Maximum: 198.00
Number of points: 234

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	4641	106.10	1353	178.10	6838	256.00	24882
36.10	2268	107.10	47912	176.00	2108	257.00	2274
37.10	2257	108.10	7541	177.00	2967	258.00	7872
38.10	2279	109.10	1646	178.10	1326	259.00	1817
39.10	10724	110.00	54852	179.00	11264	260.00	7213
40.10	1788	111.10	14480	180.10	7617	266.00	636
41.10	3710	112.00	1735	181.00	2926	272.00	560
42.10	1816	113.00	606	182.00	786	273.00	9537
43.10	1120	116.00	2770	184.00	858	274.00	12166
44.10	2041	117.00	29408	180.10	5251	275.00	32120
46.10	559	118.00	1525	186.00	43072	276.00	16748
47.10	16113	119.10	543	187.00	12471	277.00	8243
48.10	7277	120.00	884	188.10	1430	277.90	982
49.10	82060	128.00	3265	189.00	2169	283.10	797
50.10	37024	123.00	8832	191.10	1262	285.00	5100
51.10	143328	124.00	1873	192.00	3545	293.00	1448
52.10	7079	125.00	2278	193.00	3888	296.00	19016
55.10	1319	127.10	105048	194.10	997	297.00	2716
56.10	4027	128.00	12349	196.00	19904	303.10	2694
57.10	11438	129.00	67222	198.00	323496	304.00	863
61.10	1721	130.00	6306	199.00	23264	313.90	887
62.10	2921	131.10	1114	200.00	2046	314.90	2084
63.10	8739	134.00	1954	201.90	2078	316.00	1226
64.10	688	135.00	5421	203.00	2676	321.00	681
65.10	3186	136.00	2003	204.00	11013	323.00	6219
69.10	154432	137.10	2863	205.00	18544	324.00	1234
70.10	1217	139.00	931	206.00	77455	327.00	1301
71.10	866	140.00	545	207.10	10874	327.90	616
73.10	997	141.00	7419	208.00	2489	332.00	816
74.10	14596	142.10	3140	209.00	798	333.00	667
75.10	23824	143.00	1916	211.10	3661	334.00	4150
76.10	9088	146.00	898	213.00	887	338.00	1060
77.10	190382	146.00	1268	216.00	1921	341.00	892
78.10	12899	147.00	4162	217.00	18536	346.00	1394
79.10	11167	148.00	8476	218.00	2463	352.00	2986

Data File: \\AVOGADRO\USERDATA\Organic\avoa\S3.1\021121.B\S3C0374.D

Date : 21-NOV-2002 10:57

Client ID: BFTPP3U

Instrument: S3.1

Sample Info: ST11216,BFTPP3U

Operator: MC

Column phase: DB-5-MS

Column diameter: 0.25

Data File: S3C0374.D
Spectrum: HP ChemStation/MS Data/MS, Scan 7421 6.382 min,
Location of Maximum: 198.00
Number of points: 234

m/z	Y	m/z	Y	m/z	Y	m/z	Y
69.10	7811	149.00	2090	221.00	20520	353.00	1430
81.10	12483	150.00	542	223.00	4457	354.00	2626
82.00	3684	151.20	1310	224.00	41606	348.00	7509
83.10	5382	152.00	894	225.00	11186	358.90	1434
84.00	72769	153.10	2691	226.10	1240	371.00	771
85.10	4346	154.00	1421	227.00	18117	372.00	3604
86.00	47824	155.00	4716	229.00	2282	373.00	1066
87.00	2402	156.10	6754	229.00	7440	383.00	1136
88.00	7293	157.10	1392	231.00	1433	390.00	569
97.00	861	160.00	1784	233.90	991	402.00	1351
98.10	2882	159.00	1214	236.00	1309	403.00	2600
98.10	2629	160.00	2654	236.00	888	403.90	979
93.10	16097	161.00	7934	237.00	1059	421.00	2382
94.10	1479	162.10	956	240.00	659	422.00	2133
98.10	763	165.00	2685	241.00	870	423.00	16078
96.00	1000	166.00	2291	242.00	2329	424.00	7395
97.20	660	167.00	14018	243.00	2842	439.20	879
98.10	11656	168.00	6939	244.00	36829	439.90	726
99.10	9437	169.10	1461	245.10	4604	441.00	40736
100.10	983	170.20	592	246.00	8974	442.00	298644
101.00	2048	171.00	979	247.00	1036	443.00	58448
103.00	2097	172.10	1329	248.00	1167	444.00	9052
104.00	4191	173.00	1708	253.00	817		
105.00	3888	174.00	3472	256.00	143008		

Data File: \\NVOGA8N0\USERDATA\Organic\avoa\B3,1\021128.B\S3C0374.D

Date : 28-NOV-2002 10:57

Client ID: DFTPP3U

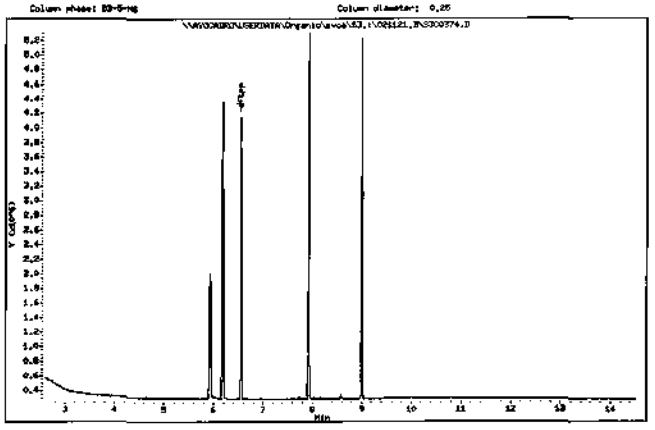
Sample Info: 5711280,DFTPP3U

Instrument: S3,1

Operator: MC

Column phase: DB-5-MS

Column diameter: 0.25



Data File: \\NVOGA8N0\USERDATA\Organic\avoa\B3,1\021128.B\S3C0440.D

Date : 28-NOV-2002 10:17

Client ID: DFTPP3K

Sample Info: 5711280,DFTPP3K

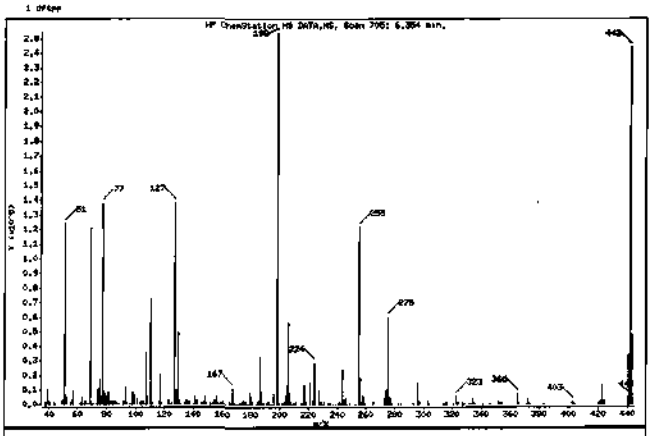
Instrument: S3,1

Operator: MC

Column phase: DB-5-MS

Column diameter: 0.25

1 Peaks



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	20.00 - 40.00% of mass 198	40.72
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	47.42
70	Less than 2.00% of mass 69	0.28 (0.59)
127	40.00 - 60.00% of mass 198	54.07
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.09
275	10.00 - 30.00% of mass 198	23.65
365	Greater than 1.00% of mass 198	2.91
441	Present, but less than mass 443	13.08
442	40.00 - 99.99% of mass 198	98.88
443	17.00 - 23.00% of mass 442	18.48 (19.24)

Data File: \\NVOGA8N0\USERDATA\Organic\avoa\B3,1\021128.B\S3C0440.D

Date : 28-NOV-2002 10:17

Client ID: DFTPP3K

Sample Info: 5711280,DFTPP3K

Instrument: S3,1

Operator: MC

Column phase: DB-5-MS

Column diameter: 0.25

Data File: S3C0440.D
Spectrum: HP ChemStation MS DATA.MS, Scan 7061: 6.354 min.
Location of Maximum: 198.00
Number of points: 214

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	692	108.00	8411	179.00	8339	256.00	18696
38.10	1832	119.00	72392	180.00	8944	257.10	1630
39.10	10409	111.00	10882	181.00	2183	258.00	6092
40.00	2362	117.10	1416	184.00	708	259.00	910
41.10	886	116.10	1904	185.10	3845	265.00	2648
42.10	949	117.00	21192	186.10	32712	273.00	3864
44.00	1608	118.00	1750	187.10	7800	274.00	10856
48.10	838	122.10	2107	188.20	1238	275.00	69272
49.10	2698	123.00	3402	189.10	1406	276.10	8908
50.10	31382	124.00	1791	191.10	1106	277.00	4496
51.10	124150	125.10	1358	192.10	2618	270.00	917
52.10	8677	127.10	137792	193.00	2546	283.00	858
53.00	1265	128.00	10845	194.10	771	285.00	657
56.10	4070	129.00	49168	196.00	8342	293.00	1152
57.10	9328	130.10	4204	198.00	264048	296.00	54933
61.10	1464	131.10	651	199.00	18040	297.10	2176
62.10	1715	134.10	1191	200.10	1342	303.00	2262
63.10	5929	135.10	4297	201.00	972	304.00	674
64.00	759	136.00	1751	203.00	1864	314.00	878
65.10	2684	137.10	2164	204.10	6490	315.00	1966
67.10	886	140.00	650	205.10	13237	316.00	1224
68.00	120648	141.00	8376	206.10	98472	320.00	886
70.10	714	142.10	2888	207.10	9089	323.00	8782
71.10	997	143.10	1218	207.90	1782	324.10	2136
73.00	1186	148.10	619	209.00	621	327.00	1430
74.10	11218	146.00	938	210.20	922	329.00	870
75.10	17744	147.10	2841	211.00	1901	331.90	822
76.10	6232	148.00	6150	215.00	649	333.00	908
77.10	137836	149.00	1275	216.10	962	334.00	4131
79.10	9143	151.20	760	217.00	33240	335.00	1008
79.10	7484	152.00	662	218.00	2095	341.20	868
99.10	5900	153.10	1896	221.10	15298	344.00	1343
91.10	8731	154.00	1473	222.00	2479	352.00	5573
93.00	2899	155.00	2721	224.10	19696	353.00	1348
93.10	2409	156.10	5781	225.10	2845	354.10	2958

Data File: \\NVOGA8N0\USERDATA\Organic\avoa\B3,1\021128.B\S3C0440.D

Date : 28-NOV-2002 10:17

Client ID: DFTPP3K

Sample Info: 5711280,DFTPP3K

Instrument: S3,1

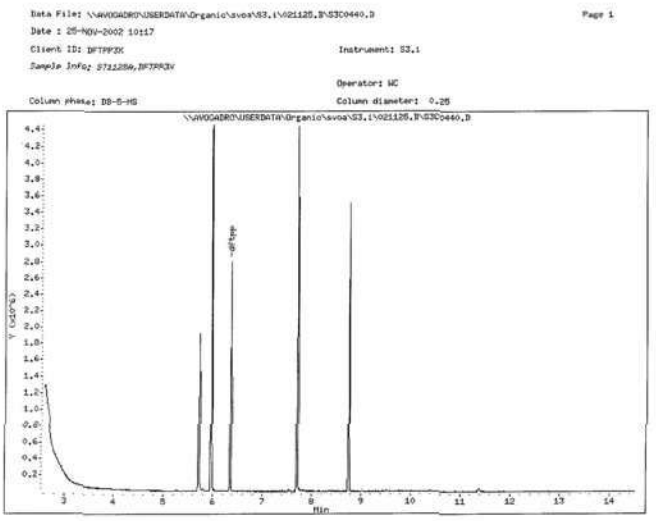
Operator: MC

Column phase: DB-5-MS

Column diameter: 0.25

Data File: S3C0440.D
Spectrum: HP ChemStation MS DATA.MS, Scan 7061: 6.354 min.
Location of Maximum: 198.00
Number of points: 214

m/z	Y	m/z	Y	m/z	Y	m/z	Y
64.00	2132	157.10	1034	227.00	10018	268.00	7409
88.00	1782	158.10	856	228.10	1932	346.00	1107
86.00	3140	157.00	905	229.00	2212	371.00	830
87.10	1218	160.00	1687	231.00	1508	372.00	3428
88.10	987	161.00	2432	233.90	799	373.00	1014
91.00	2439	162.00	767	238.00	974	382.90	818
92.10	2196	168.10	2248	237.00	863	402.00	1779
93.00	11772	166.10	1914	239.00	893	402.90	1976
94.00	863	167.10	11130	240.00	766	404.00	807
96.00	783	168.00	4871	241.30	828	420.90	1766
97.20	595	169.00	1006	242.00	1480	422.00	2574
98.10	8763	171.10	682	243.00	1717	423.00	14295
99.10	6911	172.00	1227	244.10	194282	424.10	2879
101.10	4422	173.10	1447	245.10	3386	441.00	33256
103.00	1834	174.00	2128	246.00	4497	442.00	264382
104.00	2730	170.10	3795	247.10	631	443.00	47008
105.10	3112	176.10	1814	249.10	1310	444.00	3813
106.00	1122	177.00	2157	253.00	623		
107.10	38784	178.10	691	266.00	121362		



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK3X

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: MB-4279
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0261
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	*2-Methylphenol*	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK3X

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: MB-4279
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0261
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

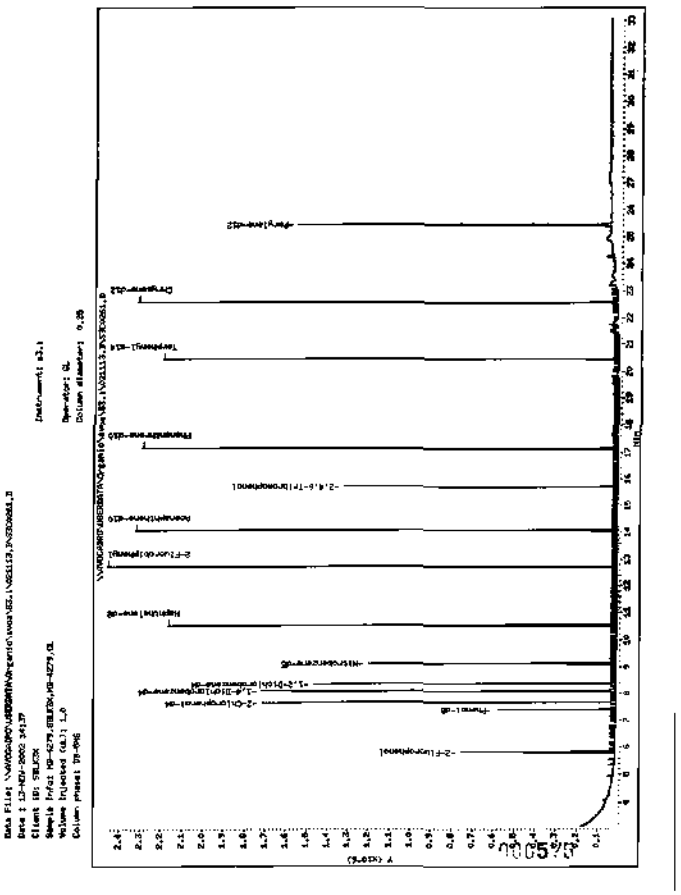
EPA SAMPLE NO.
SBLK3X

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: MB-4279
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0261
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM03.0



000575

Data File: S3C0261.D
Report Date: 23-Nov-2002 16:43

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3C0261.D
Lab Smp Id: MB-4279 Client Smp ID: SBLK3X
Inj Date : 13-NOV-2002 14:37
Operator : GL Inst ID: s3.i
Smp Info : MB-4279,SBLK3X,MB-4279,GL
Misc Info : 3,,BLANK,1,,,,,,,11-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3_8270C.m
Meth Date : 14-Nov-2002 08:38 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 31 QC Sample: BLANK ✓
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub ✓
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	Quant ion MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
$	1 2-Fluorophenol	112	5.807	5.823	(0.716)	416844	34.7097	35
$	8 Phenol-d5	99	7.389	7.404	(0.914)	334572	18.4705	18
$	9 2-Chlorophenol-d4	132	7.673	7.676	(0.948)	759240	50.9743	51
*	12 1,4-Dichlorobenzene-d4	152	8.098	8.098	(1.000)	419202	40.0000	
$	16 1,2-Dichlorobenzene-d4	152	8.377	8.376	(1.034)	356889	34.3762	34
$	22 Nitrobenzene-d5	82	9.140	9.138	(0.867)	614651	39.9954	40
*	31 Naphthalene-d8	136	10.835	10.840	(1.000)	1458546	40.0000	
$	41 2-Fluorobiphenyl	172	12.726	12.730	(0.803)	1330786	40.9410	41
*	46 Acenaphthene-d10	164	14.099	14.093	(1.000)	795640	40.0000	
$	60 2,4,6-Tribromophenol	330	15.706	15.716	(0.914)	219949	58.8683	59
*	64 Phenanthrene-d10	188	17.119	17.103	(1.000)	1245138	40.0000	
$	72 Terphenyl-d14	244	20.440	20.446	(0.954)	1697991	39.4040	39
*	76 Chrysene-d12	240	21.946	21.926	(1.000)	3298646	40.0000	
*	83 Perylene-d12	264	25.456	25.456	(1.000)	1295543	40.0000	

11/25/02

000576

Data File: S3C0261.D
Report Date: 23-Nov-2002 16:43

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3C0261.D
Lab Smp Id: MB-4279 Client Smp ID: SBLK3X
Inj Date : 13-NOV-2002 14:37
Operator : GL Inst ID: s3.i
Smp Info : MB-4279,SBLK3X,MB-4279,GL
Misc Info : 3,,BLANK,1,,,,,,,11-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3_8270C.m
Meth Date : 14-Nov-2002 08:38 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 31 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

000577

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK3P

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: MB-4285
Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3C0376
Level: (low/med) LOW Date Received: _____
% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/21/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	670	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	670	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	670	U
83-32-9	Acenaphthene	330	U

FORM I SV-1 OLM03.0

000578

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK3P

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: MB-4285

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3C0376

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:11/12/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/21/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	670	U
100-02-7	4-Nitrophenol	670	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	670	U
534-52-1	4,6-Dinitro-2-methylphenol	670	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	670	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

000579

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SBLK3P

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: MB-4285

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3C0376

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/12/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/21/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

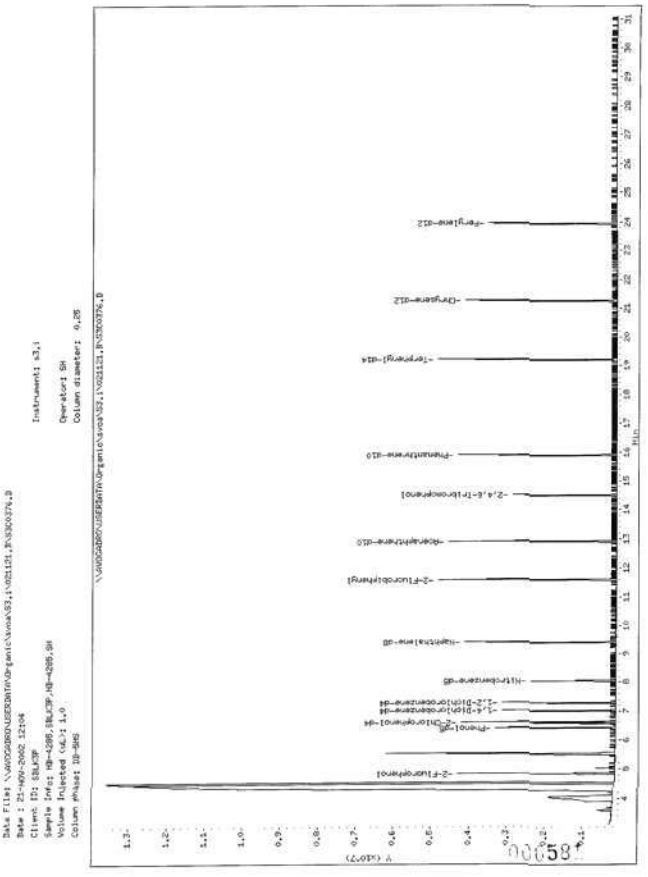
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 141-79-7	3-PENTEN-2-ONE, 4-METHYL-	3.60	290	NJ
2.	UNKNOWN	5.03	190	J
3.	UNKNOWN	5.54	4500	J
4.	UNKNOWN	6.58	840	J
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM03.0

000580



000581

Data File: S3C0376.D
Report Date: 26-Nov-2002 12:40

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021121.B\S3C0376.D
Lab Smp Id: MB-4285 Client Smp ID: SBLK3P
Inj Date : 21-NOV-2002 12:04
Operator : SH Inst ID: s3.i
Smp Info : MB-4285,SBLK3P,MB-4285,SH
Misc Info : 3,,BLANK,2,,,,,,,12-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021121.B\S3_8270C.m
Meth Date : 22-Nov-2002 11:17 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)	
$ 3 2-Fluorophenol	112	4.852	4.789	(0.691)	1571737	59.8790	2000	
$ 5 Phenol-d5	99	6.417	6.403	(0.914)	1809557	58.2459	1900	
$ 9 2-Chlorophenol-d4	132	6.420	6.404	(0.843)	1715970	64.0372	2100	
* 12 1,4-Dichlorobenzene-d4	152	7.021	7.013	(1.000)	734207	40.0000		(Q)
$ 14 1,2-Dichlorobenzene-d4	152	7.288	7.284	(1.038)	713899	42.8946	1400	
$ 22 Nitrobenzene-d5	82	8.047	8.048	(0.855)	1075981	38.8256	1300	
* 31 Naphthalene-d8	136	9.409	9.410	(1.000)	2629249	40.0000		
$ 41 2-Fluorobiphenyl	172	11.594	11.601	(0.898)	2276693	43.2185	1400	
* 48 Acenaphthene-d10	164	12.908	12.909	(1.000)	1511202	40.0000		
$ 60 2,4,6-Tribromophenol	330	14.505	14.512	(0.913)	542150	79.8811	2500	
* 64 Phenanthrene-d10	188	15.905	15.912	(1.000)	2369160	40.0000		
$ 72 Terphenyl-d14	244	19.212	19.213	(0.904)	2595775	50.3276	1700	
* 74 Chrysene-d12	240	21.263	21.281	(1.000)	2410982	40.0000		

000582

Data File: S3C0376.D
Report Date: 26-Nov-2002 12:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
* 83 Perylene-d12	264	23.945	23.946	(1.000)	1737144	40.0000	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: S3C0376.D
Report Date: 27-Nov-2002 11:53

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021121.B\S3C0376.D
Lab Smp Id: MB-4285 Client Smp ID: SBLK3P
Inj Date : 21-NOV-2002 12:04
Operator : SH Inst ID: s3.i
Smp Info : MB-4285,SBLK3P,MB-4285,SH
Misc Info : 3,,BLANK,2,,,,,,,12-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021121.B\S3_8270C.m
Meth Date : 26-Nov-2002 15:58 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

ISTD	RT	AREA	AMOUNT
* 12 1,4-Dichlorobenzene-d4	7.021	4267873	40.000

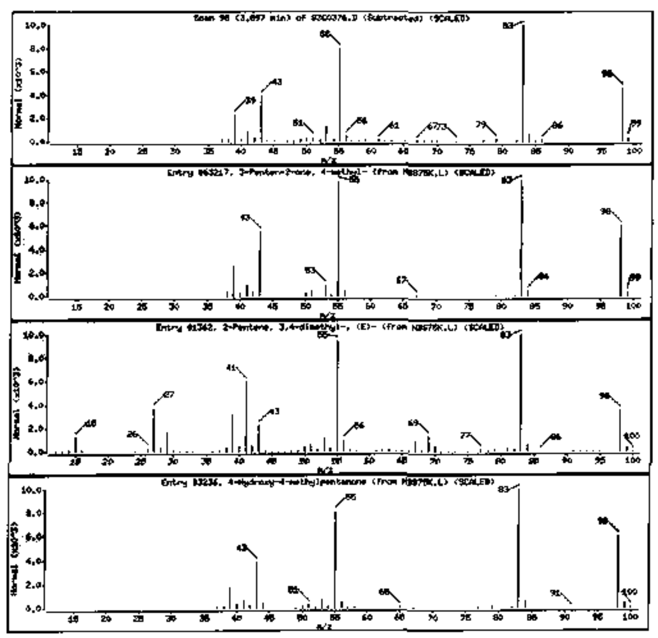
RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
3-Penten-2-one, 4-methyl-				CAS #: 141-79-7			
3.897	910194	8.7950	290	95	NBS75K.L	63217	12
Unknown				CAS #:			
5.036	619432	5.7611	190	0		0	12

Data File: S3C0376.D
Report Date: 27-Nov-2002 11:53

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
5.541	14514579	136.331389	4500	0		0	12
Unknown				CAS #:			
6.376	2676119	28.0650011	940	0		0	12

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021121.B\S3C0376.D
Date : 21-NOV-2002 12:04
Client ID: SBLK3P Instrument: s3.i
Sample Info: MB-4285,SBLK3P,MB-4285,SH
Volume Injected (uL): 1.0 Operator: SH
Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3-Penten-2-one, 4-methyl-	141-79-7	NBS75K.L	63217	95	C6H10O	98
2-Pentene, 3,4-dimethyl-, (E)-	4914-92-6	NBS75K.L	1362	83	C7H14	98
4-Hydroxy-4-methylpentanone	0-00-0	NBS75K.L	3236	83	C6H12O2	116



Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021121.B\S3C0376.D

Date : 21-NOV-2002 12:04

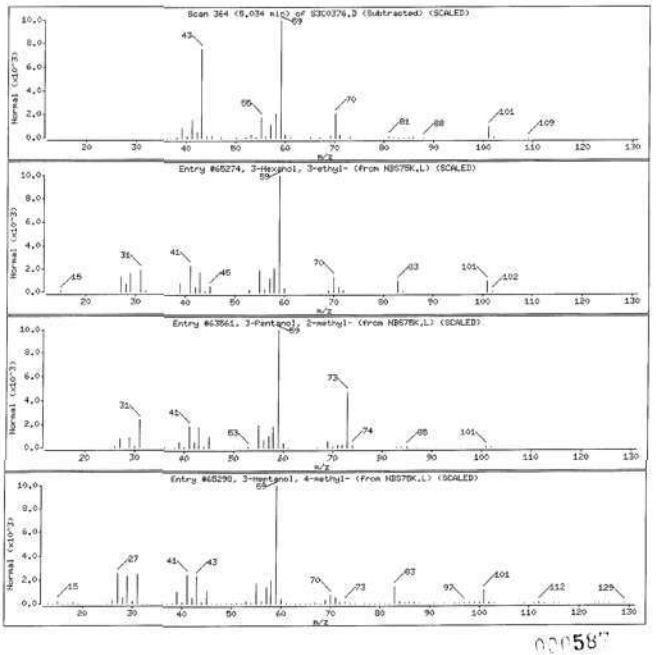
Client ID: SBLK3P Instrument: s3.i

Sample Info: MB-4286,SBLK3P,MB-4286,SH

Volume Injected (uL): 1.0 Operator: SH

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
3-Hexanol, 3-ethyl-	597-76-2	NBS75K.L	65274	64	C8H18O	130
3-Pentanol, 2-methyl-	565-67-3	NBS75K.L	63561	62	C6H14O	102
3-Heptanol, 4-methyl-	14979-39-6	NBS75K.L	65290	45	C8H18O	130



000587

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021121.B\S3C0376.D

Date : 21-NOV-2002 12:04

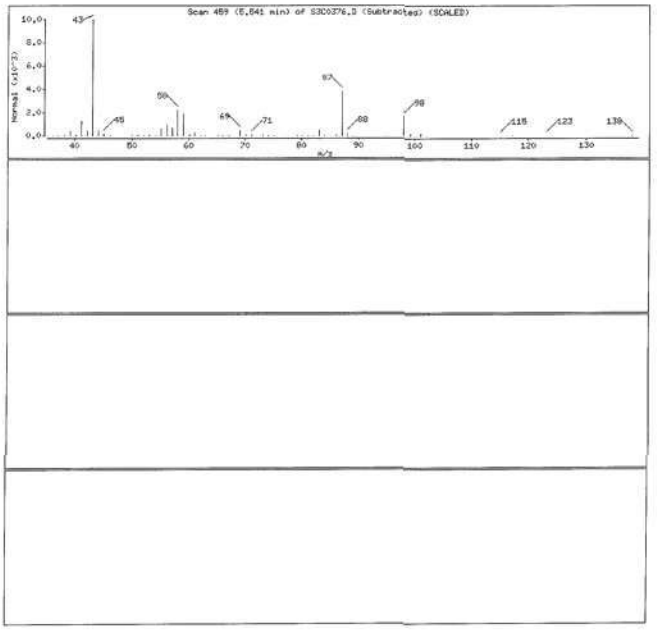
Client ID: SBLK3P Instrument: s3.i

Sample Info: MB-4286,SBLK3P,MB-4286,SH

Volume Injected (uL): 1.0 Operator: SH

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



000588

Data File: \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021121.B\S3C0376.D

Date : 21-NOV-2002 12:04

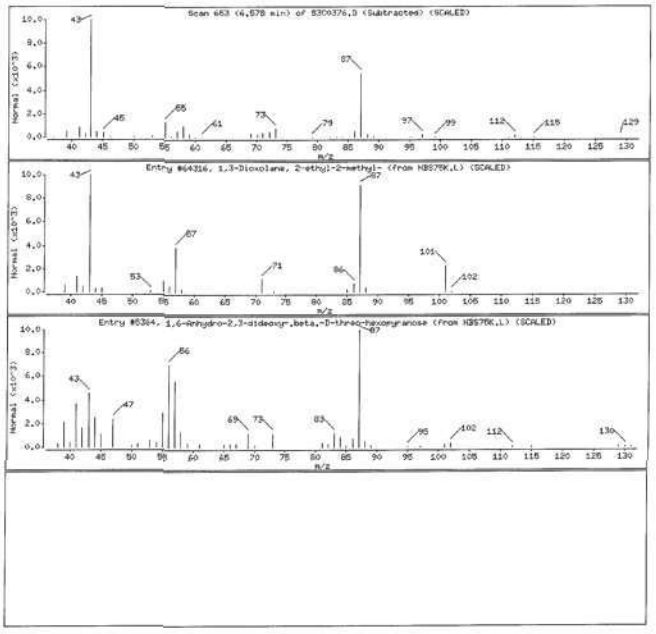
Client ID: SBLK3P Instrument: s3.i

Sample Info: MB-4286,SBLK3P,MB-4286,SH

Volume Injected (uL): 1.0 Operator: SH

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,3-Dioxolane, 2-ethyl-2-methyl-	126-39-6	NBS75K.L	64316	36	C6H12O2	116
1,6-Anhydro-2,3-dideoxy-.beta.-D-threo-h	39682-47-8	NBS75K.L	5364	33	C6H10O3	130



000589

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK3Z

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: MB-4362

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0453

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/14/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/25/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1 OLM03.0

000590

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK3Z

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: MB-4362

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0453

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/14/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/25/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM 1 SV-2 OLM03.0

000591

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK3Z

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: MB-4362

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0453

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/14/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/25/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

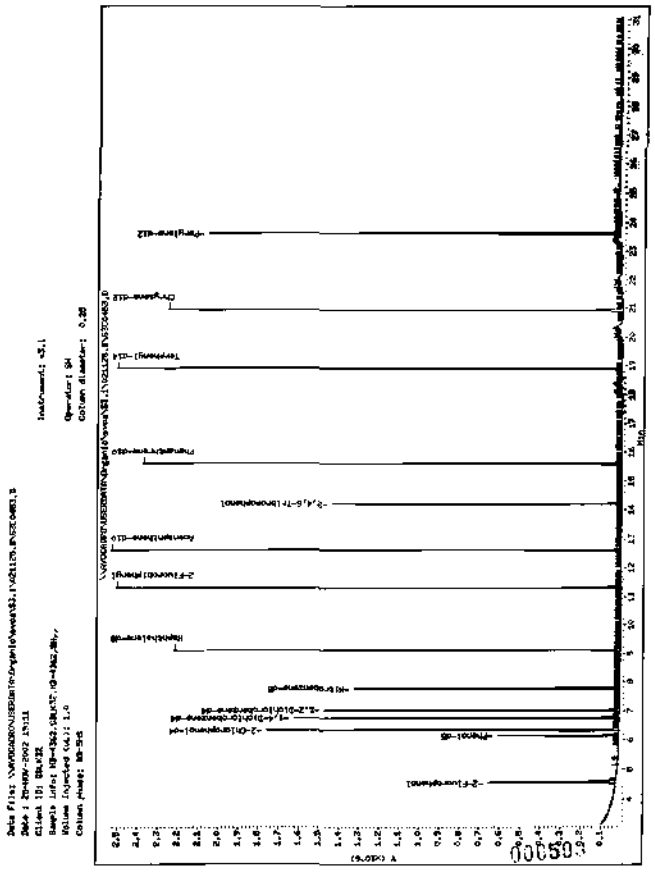
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM03.0

000592



000593

Data File: S3C0453.D
Report Date: 26-Nov-2002 12:05

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021125.B\S3C0453.D
Lab Smp Id: MB-4362 Client Smp ID: SBLK3Z
Inj Date : 25-NOV-2002 19:11
Operator : SH Inst ID: s3.i
Smp Info : MB-4362,SBLK3Z,MB-4362,SH,,
Misc Info : 3,,BLANK,1,,,,,,,14-NOV-02,
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021125.B\S3_8270C.m
Meth Date : 25-Nov-2002 11:56 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 14 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT ION	RT	RTR RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
3 2-Fluorophenol	112	4.567	4.573	(0.676)	603487	29.6350	30
5 Phenol-d5	99	5.154	5.164	(0.911)	557985	18.5736	19
8 2-Chlorophenol-d4	132	5.348	5.351	(0.949)	921106	55.3062	55
10 1,4-Dichlorobenzene-d4	152	6.783	6.752	(1.009)	418524	40.0000	(Q)
14 1,2-Dichlorobenzene-d4	150	7.019	7.018	(1.040)	574951	40.5858	40
22 Nitrobenzene-d5	82	7.772	7.777	(0.853)	618240	38.7131	39
31 Naphthalene-d8	136	9.136	9.128	(1.000)	1515740	40.0000	
41 2-Fluorobiphenyl	172	11.799	11.814	(0.899)	1213647	45.9688	46
48 Acenaphthene-d10	164	12.003	12.002	(1.000)	681782	40.0000	
60 2,4,6-Tribromophenol	330	14.178	14.209	(0.842)	284525	47.1761	47
64 Phenanthrene-d10	188	15.533	15.554	(1.000)	1367258	40.0000	
72 Terphenyl-d14	244	18.300	18.300	(0.908)	1346256	45.1648	45
74 Chrysene-d12	240	20.893	20.891	(1.000)	1324941	40.0000	
81 Perylene-d12	264	23.607	23.611	(1.000)	1077475	40.0000	

000594

Data File: S3C0453.D
Report Date: 26-Nov-2002 12:05

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: S3C0453.D
Report Date: 26-Nov-2002 12:05

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021125.B\S3C0453.D
Lab Smp Id: MB-4362 Client Smp ID: SBLK3Z
Inj Date : 25-NOV-2002 19:11
Operator : SH Inst ID: s3.i
Smp Info : MB-4362,SBLK3Z,MB-4362,SH,,
Misc Info : 3,,BLANK,1,,,,,,,14-NOV-02,
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021125.B\S3_8270C.m
Meth Date : 25-Nov-2002 11:56 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 14 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: S3XLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: LCS-4279
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0262
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	12	
111-44-4	bis(2-Chloroethyl)Ether	39	
95-57-8	2-Chlorophenol	36	
541-73-1	1,3-Dichlorobenzene	38	
106-46-7	1,4-Dichlorobenzene	38	
95-50-1	1,2-Dichlorobenzene	39	
95-48-7	2-Methylphenol	32	
108-60-1	2,2'-oxybis(1-Chloropropane)	42	
106-44-5	4-Methylphenol	28	
621-64-7	N-Nitroso-di-n-propylamine	44	
67-72-1	Hexachloroethane	39	
98-95-3	Nitrobenzene	42	
78-59-1	Isophorone	43	
88-75-5	*2-Nitrophenol*	42	
105-67-9	2,4-Dimethylphenol	38	
120-83-2	2,4-Dichlorophenol	41	
120-82-1	1,2,4-Trichlorobenzene	39	
91-20-3	Naphthalene	43	
106-47-8	4-Chloroaniline	14	
111-91-1	bis(2-Chloroethoxy)methane	43	
87-68-3	Hexachlorobutadiene	38	
59-50-7	4-Chloro-3-Methylphenol	41	
91-57-6	2-Methylnaphthalene	42	
77-47-4	Hexachlorocyclopentadiene	39	
88-06-2	2,4,6-Trichlorophenol	42	
95-95-4	2,4,5-Trichlorophenol	42	
91-58-7	2-Chloronaphthalene	38	
88-74-4	2-Nitroaniline	44	
131-11-3	Dimethylphthalate	45	
208-96-8	Acenaphthylene	43	
606-20-2	2,6-Dinitrotoluene	43	
99-09-2	3-Nitroaniline	37	
83-32-9	Acenaphthene	44	

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

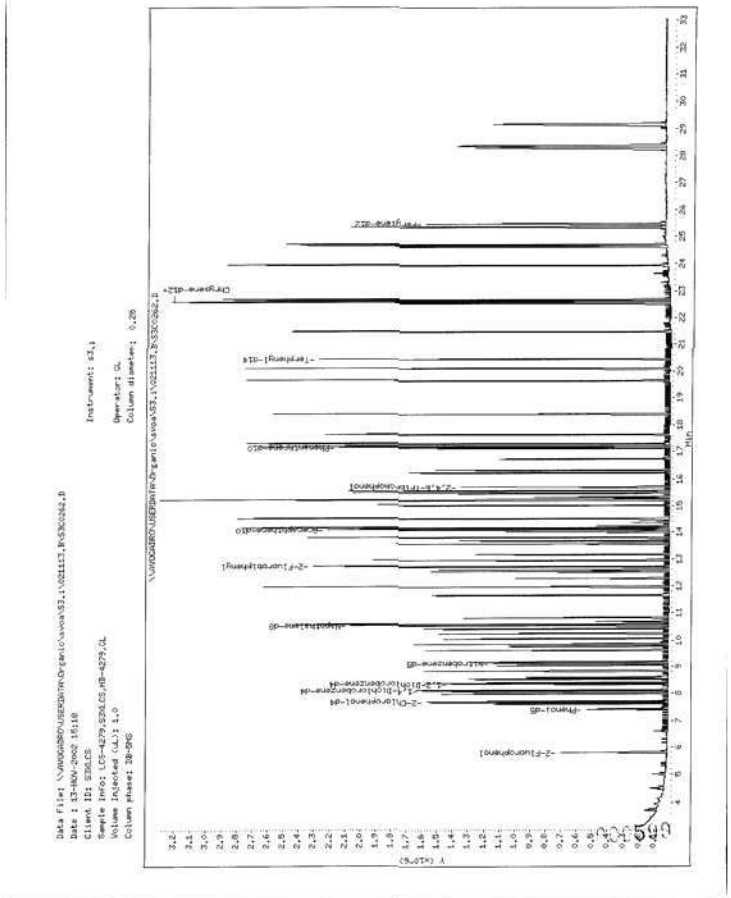
EPA SAMPLE NO.: S3XLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: LCS-4279
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0262
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	30	
100-02-7	4-Nitrophenol	12	J
132-64-9	Dibenzofuran	43	
121-14-2	2,4-Dinitrotoluene	44	
84-66-2	Diethylphthalate	44	
7005-72-3	4-Chlorophenyl-phenylether	42	
86-73-7	Fluorene	44	
100-01-6	4-Nitroaniline	38	
534-52-1	4,6-Dinitro-2-methylphenol	39	
86-30-6	N-Nitrosodiphenylamine (1)	44	
101-55-3	4-Bromophenyl-phenylether	41	
118-74-1	Hexachlorobenzene	43	
87-86-5	Pentachlorophenol	39	
85-01-8	Phenanthrene	45	
120-12-7	Anthracene	46	
86-74-8	Carbazole	48	
84-74-2	Di-n-butylphthalate	46	
206-44-0	Fluoranthene	46	
129-00-0	Pyrene	45	
85-68-7	Butylbenzylphthalate	48	
91-94-1	3,3'-Dichlorobenzidine	42	
56-55-3	Benzo(a)anthracene	46	
218-01-9	Chrysene	45	
117-81-7	bis(2-Ethylhexyl)phthalate	44	
117-84-0	Di-n-octylphthalate	47	
205-99-2	Benzo(b)fluoranthene	43	
207-08-9	Benzo(k)fluoranthene	50	
50-32-8	Benzo(a)pyrene	45	
193-39-5	Indeno(1,2,3-cd)pyrene	44	
53-70-3	Dibenzo(a,h)anthracene	44	
191-24-2	Benzo(g,h,i)perylene	43	

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0



Data File: S3C0262.D
Report Date: 23-Nov-2002 16:41

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3C0262.D
Lab Smp Id: LCS-4279 Client Smp ID: S3XLCS
Inj Date : 13-NOV-2002 15:18
Operator : GL Inst ID: s3.i
Smp Info : LCS-4279,S3XLCS,MB-4279,GL
Misc Info : 3,,LCS,1,,,,,,,11-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3_8270C.m
Meth Date : 14-Nov-2002 08:38 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 32 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$	5 2-Fluorophenol	112	5.806	5.812	(0.717)	572182	26.3815	26
$	5 Phenol-d5	99	7.399	7.404	(0.914)	290244	16.4720	16
	6 Phenol	94	7.425	7.431	(0.917)	235396	12.5295	12
	8 bis(2-Chloroethyl)Ether	93	7.607	7.612	(0.939)	584019	39.4200	39
$	9 2-Chlorophenol-d4	132	7.676	7.674	(0.948)	724858	50.3298	50
	10 2-Chlorophenol	128	7.703	7.708	(0.951)	524592	36.4831	36
	11 1,3-Dichlorobenzene	146	7.991*	7.992	(0.987)	577173	38.3971	38
*	12 1,4-Dichlorobenzene-d4	152	8.098	8.098	(1.000)	605360	40.0000	
	13 1,4-Dichlorobenzene	146	8.128*	8.130	(1.003)	603819	38.1845	38
$	14 1,3-Dichlorobenzene-d4	152	8.374	8.374	(1.034)	329539	36.8522	37
	16 1,2-Dichlorobenzene	146	8.403*	8.408	(1.038)	554995	38.8163	39
	17 2-Methylphenol	108	8.543	8.547	(1.055)	408137	32.4761	32
	18 2,2'-oxybis(1-Chloropropane)	45	8.606	8.611	(1.063)	868266	42.4355	42
	20 4-Methylphenol	108	8.830	8.836	(1.090)	388468	27.5741	28

000600

Data File: S3C0262.D
Report Date: 23-Nov-2002 16:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	13 N-Nitroso-di-n-propylamine	70	8.865	8.852	(1.093)	342804	44.5977	44
	21 Hexachloroethane	117	9.044	9.044	(1.117)	222850	39.0718	39
$	22 Nitrobenzene-d5	82	9.135	9.135	(0.467)	405771	40.8845	41
	23 Nitrobenzene	77	9.172	9.172	(0.971)	468791	41.7491	42
	24 Isophorone	82	9.437	9.437	(0.913)	1083181	42.8712	43
	25 2-Nitrophenol	139	9.766	9.787	(0.929)	320464	41.4749	42
	26 2,4-Dimethylphenol	107	9.867	9.872	(0.937)	504984	38.2807	38
	27 bis(2-Chloroethoxy)methane	93	10.070	10.070	(0.956)	733292	43.3930	43
	29 2,4-Dichlorophenol	162	10.251	10.257	(0.973)	490051	41.2829	41
	30 1,2,4-Trichlorobenzene	180	10.423	10.422	(0.989)	441469	39.4378	39
*	31 Naphthalene-d8	136	10.534	10.540	(1.000)	1406228	40.0000	
	32 Naphthalene	128	10.577	10.583	(1.004)	1460859	42.4461	42
	33 4-Chloroaniline	127	10.664	10.669	(1.014)	216060	13.9805	14
	34 Hexachlorobutadiene	225	10.828	10.828	(1.028)	223668	38.0474	38
	35 4-Chloro-3-Methylphenol	107	11.667	11.667	(1.108)	491826	40.8868	41
	36 2-Methylnaphthalene	142	11.971	11.972	(1.136)	1119739	41.9205	42
	38 Hexachlorocyclopentadiene	237	12.287	12.287	(0.972)	235683	39.4413	39
	39 2,4,6-Trichlorophenol	196	12.543	12.543	(0.990)	308087	42.2849	42
	40 2,4,5-Trichlorophenol	196	12.607	12.613	(0.995)	329059	42.3842	42
$	41 2-Fluorobiphenyl	172	12.725	12.730	(0.903)	1091569	41.1313	41
	42 2-Chloronaphthalene	162	12.954	12.960	(0.919)	859824	38.0158	38
	43 2-Nitroaniline	65	13.173	13.174	(0.935)	357413	44.2456	44
	44 Dimethylphthalate	163	13.569	13.569	(0.963)	1159463	44.7552	45
	45 2,6-Dinitrotoluene	165	13.681	13.684	(0.971)	273855	43.3795	43
	46 Acenaphthylene	153	13.798	13.804	(0.979)	1611027	42.7898	43
	47 3-Nitroaniline	138	14.013	14.018	(0.994)	246047	37.0330	37
*	48 Acenaphthene-d10	164	14.092	14.092	(1.000)	743651	40.0000	
	49 Acenaphthene	153	14.156	14.162	(1.005)	1032997	43.5289	44
	50 2,4-Dinitrophenol	184	14.291	14.297	(1.015)	101973	30.1549	30
	51 4-Nitrophenol	109	14.365	14.375	(1.019)	61862	12.3689	12(a)
	53 2,4-Dinitrotoluene	165	14.504	14.504	(1.029)	367832	44.3495	44
	52 Dibenzofuran	168	14.514	14.514	(1.030)	1452260	43.0038	43
	54 Diethylphthalate	149	15.022	15.027	(1.066)	1127059	44.3570	44
	56 4-Chlorophenyl-phenylether	204	15.235	15.236	(1.081)	541896	42.1576	42
	55 Fluorene	166	15.219	15.220	(1.080)	1203726	43.8572	44
	57 4-Nitroaniline	138	15.242	15.248	(1.083)	257137	37.8186	38
	58 4,6-Dinitro-2-methylphenol	198	15.332	15.337	(0.855)	194677	39.3060	39(Q)
	59 N-Nitrosodiphenylamine	169	15.476	15.481	(0.903)	795334	44.2072	44
$	60 2,4,6-Tribromophenol	330	15.705	15.711	(0.916)	232436	41.3088	41
	61 4-Bromophenyl-phenylether	248	16.234	16.240	(0.947)	298587	40.7378	41
	62 Hexachlorobenzene	284	16.334	16.334	(0.953)	321303	43.1124	43
	63 Pentachlorophenol	266	16.742	16.747	(0.977)	194084	39.4378	39
*	64 Phenanthrene-d10	188	17.137	17.143	(1.000)	1224019	40.0000	
	65 Phenanthrene	178	17.189	17.191	(1.003)	1624180	45.4198	45
	66 Anthracene	178	17.292	17.298	(1.009)	1696741	46.2260	46
	67 Carbazole	167	17.634	17.634	(1.029)	1466756	48.1540	48
	68 Di-n-butylphthalate	149	18.393	18.398	(1.075)	1931578	45.7213	46

000601

Data File: S3C0262.D
Report Date: 23-Nov-2002 16:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
	69 Fluoranthene	202	19.627	19.632	(1.145)	1743073	44.0575	44
	71 Pyrene	202	20.091	20.097	(0.890)	1726490	44.9233	45
$	72 Terphenyl-d14	244	20.438	20.444	(0.905)	1139952	40.7733	41
	73 Butylbenzylphthalate	149	21.475	21.475	(0.951)	880585	44.2459	44
	74 3,3'-Dichlorobenzidine	252	22.517	22.522	(0.997)	563989	41.9154	42
	75 Benzo(a)anthracene	228	22.554	22.554	(0.999)	1699176	45.5415	46
*	76 Chrysene-d12	240	22.575	22.576	(1.000)	1306938	40.0000	
	78 bis(2-Ethylhexyl)phthalate	149	22.661	22.666	(1.004)	1212912	44.7304	44
	77 Chrysene	228	22.624	22.629	(1.002)	1555897	44.7392	45
	79 Di-n-octylphthalate	149	23.932	23.933	(1.060)	3107820	46.6735	47
	80 Benzo(b)fluoranthene	252	24.638	24.643	(0.968)	1632922	43.0135	43
	81 Benzo(k)fluoranthene	252	24.696	24.702	(0.970)	1894921	49.7878	50
	82 Benzo(a)pyrene	252	25.327	25.332	(0.995)	1566779	45.0292	45
*	83 Perylene-d12	264	25.450	25.455	(1.000)	924701	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	28.282	28.328	(1.112)	1660504	43.7154	44
	85 Dibenzo(a,h)anthracene	278	28.366	28.377	(1.115)	1630829	43.7346	44
	86 Benzo(g,h,i)perylene	276	29.157	29.173	(1.146)	1577693	43.3246	43

11/21/02

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

000602

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S3XLCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: LCSD-4279
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0264
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	13	
111-44-4	bis(2-Chloroethyl)Ether	38	
95-57-8	2-Chlorophenol	36	
541-73-1	1,3-Dichlorobenzene	37	
106-46-7	1,4-Dichlorobenzene	37	
95-50-1	1,2-Dichlorobenzene	37	
95-48-7	2-Methylphenol	32	
108-60-1	2,2'-oxybis(1-Chloropropane)	41	
106-44-5	4-Methylphenol	28	
621-64-7	N-Nitroso-di-n-propylamine	44	
67-72-1	Hexachloroethane	38	
98-95-3	Nitrobenzene	40	
78-59-1	Isophorone	41	
88-75-5	2-Nitrophenol	40	
105-67-9	2,4-Dimethylphenol	37	
120-83-2	2,4-Dichlorophenol	40	
120-82-1	1,2,4-Trichlorobenzene	38	
91-20-3	Naphthalene	41	
106-47-8	4-Chloroaniline	14	
111-91-1	bis(2-Chloroethoxy)methane	42	
87-68-3	Hexachlorobutadiene	36	
59-50-7	4-Chloro-3-Methylphenol	40	
91-57-6	2-Methylnaphthalene	40	
77-47-4	Hexachlorocyclopentadiene	37	
88-06-2	2,4,6-Trichlorophenol	41	
95-95-4	2,4,5-Trichlorophenol	42	
91-58-7	2-Chloronaphthalene	37	
88-74-4	2-Nitroaniline	44	
131-11-3	Dimethylphthalate	44	
208-96-8	Acenaphthylene	42	
606-20-2	2,6-Dinitrotoluene	42	
99-09-2	3-Nitroaniline	37	
83-32-9	Acenaphthene	43	

FORM I SV-1 OLM03.0

000603

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S3XLCSD

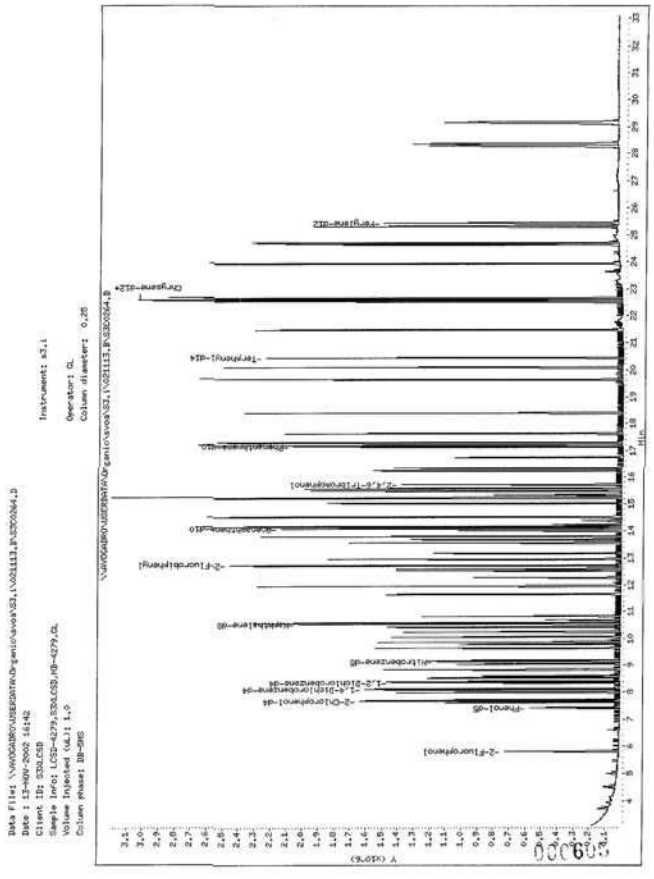
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: LCSD-4279
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0264
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/11/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/13/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	30	
100-02-7	4-Nitrophenol	13	J
132-64-9	Dibenzofuran	42	
121-14-2	2,4-Dinitrotoluene	43	
84-66-2	Diethylphthalate	43	
7005-72-3	4-Chlorophenyl-phenylether	41	
86-73-7	Fluorene	43	
100-01-6	4-Nitroaniline	37	
534-52-1	4,6-Dinitro-2-methylphenol	37	
86-30-6	N-Nitrosodiphenylamine (1)	43	
101-55-3	4-Bromophenyl-phenylether	39	
118-74-1	Hexachlorobenzene	42	
87-86-5	Pentachlorophenol	39	
85-01-8	Phenanthrene	44	
120-12-7	Anthracene	45	
86-74-8	Carbazole	47	
84-74-2	Di-n-butylphthalate	45	
206-44-0	Fluoranthene	45	
129-00-0	Pyrene	44	
85-68-7	Butylbenzylphthalate	47	
91-94-1	3,3'-Dichlorobenzidine	41	
56-55-3	Benzo(a)anthracene	44	
218-01-9	Chrysene	44	
117-81-7	bis(2-Ethylhexyl)phthalate	43	
117-84-0	Di-n-octylphthalate	45	
205-99-2	Benzo(b)fluoranthene	42	
207-08-9	Benzo(k)fluoranthene	48	
50-32-8	Benzo(a)pyrene	43	
193-39-5	Indeno(1,2,3-cd)pyrene	42	
53-70-3	Dibenzo(a,h)anthracene	42	
191-24-2	Benzo(g,h,i)perylene	42	

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

000604



000605

Data File: S3C0264.D
Report Date: 23-Nov-2002 16:43

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3C0264.D
Lab Smp Id: LCSD-4279 Client Smp ID: S3XLCSD
Inj Date : 13-NOV-2002 16:42
Operator : GL Inst ID: s3.i
Smp Info : LCSD-4279,S3XLCSD,MB-4279,GL
Misc Info : 3,,LCSD,1,,,,,,,11-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021113.B\S3_8270C.m
Meth Date : 14-Nov-2002 08:38 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 33 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
	1 2-Fluorophenol	112	5.808	5.813	(0.718)	395025	29.1596	29
$	5 Phenol-d5	99	7.399	7.404	(0.914)	309772	18.3078	18
	6 Phenol	94	7.421	7.431	(0.917)	253278	12.9301	13
	8 bis(2-Chloroethyl)Ether	93	7.608	7.612	(0.940)	538403	37.8451	38
$	9 2-Chlorophenol-d4	132	7.672	7.676	(0.948)	734709	53.1251	53
	10 2-Chlorophenol	128	7.704	7.708	(0.952)	491389	35.4223	36
	11 1,3-Dichlorobenzene	146	7.987	7.992	(0.987)	532628	36.9002	37
*	12 1,4-Dichlorobenzene-d4	152	8.094	8.098	(1.000)	389250	40.0000	
	13 1,4-Dichlorobenzene	146	8.126	8.130	(1.004)	557864	36.7385	37
$	14 1,2-Dichlorobenzene-d4	152	8.377	8.376	(1.035)	333324	34.8182	35
	16 1,2-Dichlorobenzene	146	8.404	8.408	(1.038)	521423	37.2493	37
	17 2-Methylphenol	108	8.537	8.547	(1.055)	384166	31.9995	32
	18 2,2'-oxybis(1-Chloropropane)	45	8.607	8.611	(1.063)	812168	41.3951	41
	20 4-Methylphenol	108	8.831	8.836	(1.091)	374339	27.4703	28

000606

Data File: S3C0264.D
Report Date: 23-Nov-2002 16:43

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug/Kg)
	19 N-Nitroso-di-n-propylamine	70	8.947	8.952	(1.033)	321797	43.5974	44
	21 Hexachloroethane	117	9.040	9.044	(1.117)	263864	37.7990	38
$	22 Nitrobenzene-d5	82	9.130	9.135	(0.867)	412384	42.4754	43
	23 Nitrobenzene	77	9.168	9.172	(0.870)	547652	39.7141	40
	24 Isophorone	82	9.493	9.497	(0.914)	1013492	41.3419	41
	25 2-Nitrophenol	139	9.782	9.787	(0.928)	294512	39.5540	40
	26 2,4-Dimethylphenol	107	9.868	9.873	(0.957)	467893	38.6242	39
	27 bis(2-Chloroethoxy)methane	93	10.088	10.070	(0.958)	480878	42.1337	42
	29 2,4-Dichlorophenol	162	10.282	10.257	(0.973)	417678	39.8674	40
	30 1,2,4-Trichlorobenzene	180	10.425	10.433	(0.989)	416873	38.2721	38
*	31 Naphthalene-d8	136	10.535	10.540	(1.000)	3353763	40.0000	
	32 Naphthalene	128	10.578	10.588	(1.004)	1547877	41.0456	41
	33 4-Chloroaniline	127	10.686	10.689	(1.014)	314995	14.2341	14
	34 Hexachlorobutadiene	225	10.924	10.928	(1.037)	278563	35.3387	36
	35 4-Chloro-3-Methylphenol	107	11.443	11.447	(1.087)	462455	40.2900	40
	36 2-Methylnaphthalene	142	11.972	11.972	(1.136)	1046619	40.5388	40
	38 Hexachlorocyclopentadiene	237	12.289	12.287	(0.871)	215072	37.3585	37
	39 2,4,6-Trichlorophenol	196	12.544	12.543	(0.890)	280055	40.2254	41
	40 2,4,5-Trichlorophenol	196	12.608	12.613	(0.898)	313829	42.8434	42
$	41 2-Fluorobiphenyl	172	12.734	12.730	(0.903)	1122455	42.7619	44
	42 2-Chloronaphthalene	162	12.985	12.980	(0.920)	606934	36.9272	37
	43 2-Nitroaniline	65	13.165	13.174	(0.935)	339887	43.5524	44
	44 Dimethylphthalate	163	13.560	13.560	(0.962)	1003425	42.5161	44
	45 2,6-Dinitrotoluene	165	13.602	13.606	(0.971)	350051	42.4674	42
	46 Acenaphthylene	152	13.798	13.804	(0.980)	1380845	41.8343	42
	47 3-Nitroaniline	138	14.013	14.018	(0.995)	256016	28.7910	27
*	48 Acenaphthene-d10	164	14.099	14.092	(1.000)	754019	40.0000	
	49 Acenaphthene	153	14.157	14.162	(1.005)	977145	42.5128	43
	50 2,4-Dinitrophenol	184	14.232	14.237	(1.010)	34945	10.0168	10
	51 4-Nitrophenol	109	14.344	14.375	(1.020)	42263	12.8364	13(a)
	53 2,4-Dinitrotoluene	165	14.499	14.504	(1.029)	347321	43.3466	43
	52 Dibenzofuran	168	14.515	14.514	(1.030)	1393504	42.0479	43
	54 Diethylphthalate	149	15.023	15.027	(1.066)	1066122	43.4734	43
	56 4-Chlorophenyl-phenylether	204	15.331	15.296	(1.085)	505781	40.7312	41
	55 Fluorene	166	15.216	15.220	(1.080)	1319622	42.9810	43
	57 4-Nitroaniline	138	15.265	15.268	(1.083)	744412	27.3089	27
	58 4,6-Dinitro-2-methylphenol	198	15.331	15.337	(0.895)	178466	37.3504	37(Q)
	59 N-Nitrosodiphenylamine	169	15.477	15.483	(0.901)	744676	43.0703	43
$	60 2,4,6-Tribromophenol	330	15.705	15.711	(0.914)	330091	66.0858	65
	61 4-Bromophenyl-phenylether	248	16.235	16.240	(0.947)	277637	39.2655	39
	62 Hexachlorobenzene	284	16.333	16.336	(0.951)	293438	41.4442	42
	63 Pentachlorophenol	266	16.743	16.747	(0.977)	183477	36.4494	38
*	64 Phenanthrene-d10	188	17.138	17.143	(1.000)	1180843	40.0000	
	65 Phenanthrene	178	17.166	17.181	(1.003)	1324000	44.3402	44
	66 Anthracene	178	17.203	17.208	(1.004)	1080065	45.0438	45
	67 Carbazole	167	17.630	17.636	(1.029)	1371388	46.6660	47
	68 Di-n-butylphthalate	149	18.394	18.398	(1.073)	1924104	44.7660	45

Data File: S3C0264.D
Report Date: 23-Nov-2002 16:43

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ng)	FINAL (ug/Kg)
	69 Fluoranthene	202	19.638	19.631	(1.145)	1651703	44.6434	45
	71 Pyrene	202	20.093	20.097	(0.890)	1814477	43.8333	44
$	72 Terphenyl-d14	244	20.440	20.444	(0.906)	1170109	43.4474	44
	73 Butylbenzylphthalate	149	21.471	21.478	(0.951)	823538	47.0982	47
	74 3,3'-Dichlorobenzidine	252	22.518	22.532	(0.998)	523786	40.7732	41
	75 Benzo(a)anthracene	228	22.555	22.556	(0.999)	1579455	44.1700	44
*	76 Chrysene-d12	240	22.571	22.576	(1.000)	1282560	40.0000	
	78 bis(2-Ethylhexyl)phthalate	149	22.662	22.666	(1.004)	1116987	43.3595	43
	77 Chrysene	228	22.625	22.629	(1.002)	1455177	43.6013	44
	79 Di-n-octylphthalate	149	23.933	23.933	(0.940)	1566040	45.3777	45
	80 Benzo(b)fluoranthene	252	24.639	24.641	(0.968)	1351438	42.0477	42
	81 Benzo(k)fluoranthene	252	24.697	24.702	(0.970)	1571276	48.1526	48
	82 Benzo(a)pyrene	252	25.328	25.332	(0.995)	1461075	43.8000	43
*	83 Perylene-d12	264	25.457	25.444	(1.000)	997222	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	28.289	28.309	(1.112)	1535494	42.1362	41
	85 Dibenzo(a,h)anthracene	278	28.348	28.377	(1.115)	1516510	43.3613	42
	86 Benzo(g,h,i)perylene	276	29.158	29.173	(1.146)	1444347	41.9724	42

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

11/21/02

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: S3PLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: LCS-4285

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3C0377

Level: (low/med) LOW Date Received: ________

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/12/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/21/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1400	
111-44-4	bis(2-Chloroethyl)Ether	1300	
95-57-8	2-Chlorophenol	1400	
541-73-1	1,3-Dichlorobenzene	1300	
106-46-7	1,4-Dichlorobenzene	1300	
95-50-1	1,2-Dichlorobenzene	1400	
95-48-7	2-Methylphenol	1500	
108-60-1	2,2'-oxybis(1-Chloropropane)	1200	
106-44-5	4-Methylphenol	1400	
621-64-7	N-Nitroso-di-n-propylamine	1600	
67-72-1	Hexachloroethane	1300	
98-95-3	Nitrobenzene	1200	
78-59-1	Isophorone	1400	
88-75-5	2-Nitrophenol	1400	
105-67-9	2,4-Dimethylphenol	1200	
120-83-2	2,4-Dichlorophenol	1500	
120-82-1	1,2,4-Trichlorobenzene	1500	
91-20-3	Naphthalene	1400	
106-47-8	4-Chloroaniline	470	
111-91-1	bis(2-Chloroethoxy)methane	1400	
87-68-3	Hexachlorobutadiene	1600	
59-50-7	4-Chloro-3-Methylphenol	1400	
91-57-6	2-Methylnaphthalene	1400	
77-47-4	Hexachlorocyclopentadiene	1100	
88-06-2	2,4,6-Trichlorophenol	1500	
95-95-4	2,4,5-Trichlorophenol	1500	
91-58-7	2-Chloronaphthalene	1200	
88-74-4	2-Nitroaniline	1200	
131-11-3	Dimethylphthalate	1500	
208-96-8	Acenaphthylene	1400	
606-20-2	2,6-Dinitrotoluene	1400	
99-09-2	3-Nitroaniline	900	
83-32-9	Acenaphthene	1400	

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: S3PLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: LCS-4285

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3C0377

Level: (low/med) LOW Date Received: ________

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/12/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/21/02

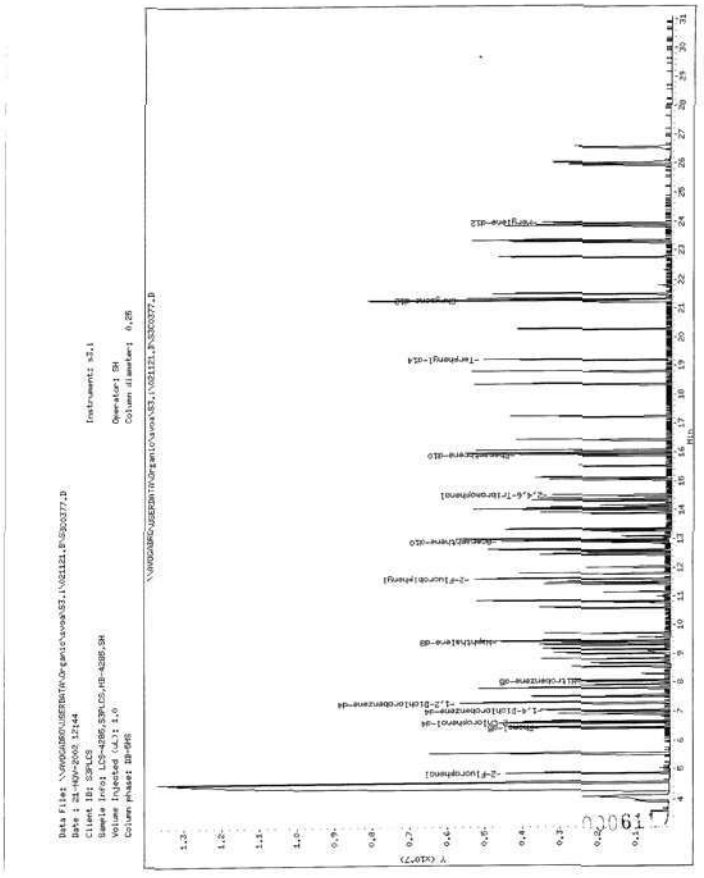
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1400	
100-02-7	4-Nitrophenol	1200	
132-64-9	Dibenzofuran	1300	
121-14-2	2,4-Dinitrotoluene	1400	
84-66-2	Diethylphthalate	1400	
7005-72-3	4-Chlorophenyl-phenylether	1400	
86-73-7	Fluorene	1300	
100-01-6	4-Nitroaniline	980	
534-52-1	4,6-Dinitro-2-methylphenol	1500	
86-30-6	N-Nitrosodiphenylamine (1)	1400	
101-55-3	4-Bromophenyl-phenylether	1500	
118-74-1	Hexachlorobenzene	1600	
87-86-5	Pentachlorophenol	1600	
85-01-8	Phenanthrene	1400	
120-12-7	Anthracene	1400	
86-74-8	Carbazole	1500	
84-74-2	Di-n-butylphthalate	1500	
206-44-0	Fluoranthene	1500	
129-00-0	Pyrene	1500	
85-68-7	Butylbenzylphthalate	1500	
91-94-1	3,3'-Dichlorobenzidine	1100	
56-55-3	Benzo(a)anthracene	1500	
218-01-9	Chrysene	1400	
117-81-7	bis(2-Ethylhexyl)phthalate	1400	
117-84-0	Di-n-octylphthalate	1500	
205-99-2	Benzo(b)fluoranthene	1500	
207-08-9	Benzo(k)fluoranthene	1700	
50-32-8	Benzo(a)pyrene	1500	
193-39-5	Indeno(1,2,3-cd)pyrene	1400	
53-70-3	Dibenzo(a,h)anthracene	1400	
191-24-2	Benzo(g,h,i)perylene	1400	

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0



Data File: S3C0377.D
Report Date: 22-Nov-2002 08:56

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021121.B\S3C0377.D
Lab Smp Id: LCS-4285 Client Smp ID: S3PLCS
Inj Date : 21-NOV-2002 12:44
Operator : SH Inst ID: s3.i
Smp Info : LCS-4285,S3PLCS,MB-4285,SH
Misc Info : 3,,LCS,2,,,,,,,12-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021121.B\S3_8270C.m
Meth Date : 22-Nov-2002 08:50 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
$	3 2-Fluorophenol	112	6.862	6.789	(0.693)	1712945	59.7633	2000
$	5 Phenol-d5	99	6.422	6.403	(0.915)	2093834	58.4886	1900
	6 Phenol	94	6.449	6.429	(0.919)	1563143	61.0031	1600
	8 bis(2-Chloroethyl)Ether	93	6.599	6.584	(0.940)	1151400	38.2528	1300
$	9 2-Chlorophenol-d4	132	6.625	6.606	(0.944)	1902021	65.0031	2200
	10 2-Chlorophenol	128	6.657	6.638	(0.948)	1259836	42.3440	1400
	11 1,3-Dichlorobenzene	146	6.914	6.905	(0.985)	1221870	40.0095	1300
*	12 1,4-Dichlorobenzene-d4	152	7.021	7.012	(1.000)	825558	40.0000	
	13 1,4-Dichlorobenzene	146	7.053	7.044	(1.005)	1265780	39.3991	1300
$	14 1,2-Dichlorobenzene-d4	152	7.293	7.284	(1.039)	805692	44.3368	1500
	16 1,2-Dichlorobenzene	146	7.320	7.311	(1.043)	1235694	42.5398	1400
	17 2-Methylphenol	108	7.323	7.314	(1.072)	1129065	44.2205	1500
	18 2,2'-oxybis(1-Chloropropane)	45	7.566	7.562	(1.078)	1469185	35.3927	1200

Data File: S3C0377.D
Report Date: 22-Nov-2002 08:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
	20 4-Methylphenol	108	7.817	7.813	(1.113)	1161222	40.5702	1400
	19 N-Nitroso-di-n-Propylamine	70	7.806	7.803	(1.112)	733966	46.9991	1600
	21 Hexachloroethane	117	7.929	7.931	(1.129)	467218	40.9293	1300
$	22 Nitrobenzene-d5	82	8.052	8.048	(0.856)	1180992	39.2901	1300
	23 Nitrobenzene	77	8.088	8.085	(0.860)	1166041	36.9882	1200
	24 Isophorone	82	8.559	8.556	(0.910)	2084994	40.6796	1400
	25 2-Nitrophenol	139	8.687	8.688	(0.923)	656168	42.0692	1400
	26 2,4-Dimethylphenol	107	8.826	8.823	(0.938)	1001413	37.4230	1200
	27 bis(2-Chloroethoxy)methane	93	9.013	9.015	(0.958)	1496638	41.9081	1400
	29 2,4-Dichlorophenol	162	9.165	9.159	(0.974)	1011628	45.7446	1500
	30 1,2,4-Trichlorobenzene	180	9.312	9.309	(0.990)	1027952	45.2682	1500
*	31 Naphthalene-d8	136	9.409	9.410	(1.000)	2852647	40.0000	
	32 Naphthalene	128	9.451	9.453	(1.005)	5330983	42.1625	1400
	33 4-Chloroaniline	127	9.590	9.824	(1.019)	445253	14.0723	470
	34 Hexachlorobutadiene	225	9.718	9.715	(1.033)	563013	47.1941	1600
	35 4-Chloro-3-Methylphenol	107	10.595	10.596	(1.126)	1067512	43.7263	1400
	36 2-Methylnaphthalene	142	10.830	10.831	(1.151)	3275306	41.9910	1400
	38 Hexachlorocyclopentadiene	237	11.150	11.147	(0.863)	437360	34.0596	1100
	39 2,4,6-Trichlorophenol	196	11.417	11.414	(0.884)	716929	45.6619	1500
	40 2,4,5-Trichlorophenol	196	11.481	11.478	(0.889)	760934	45.8096	1500
$	41 2-Fluorobiphenyl	172	11.593	11.601	(0.898)	3535619	44.4814	1500
	43 2-Chloronaphthalene	162	11.797	11.798	(0.914)	1784978	34.7253	1200
	43 2-Nitroaniline	65	12.037	12.044	(0.932)	404577	34.9281	1200
	44 Dimethylphthalate	163	12.464	12.466	(0.965)	2442827	44.1468	1500
	45 2,6-Dinitrotoluene	165	12.566	12.569	(0.973)	590545	43.5243	1400
	46 Acenaphthylene	152	12.619	12.621	(0.977)	3328533	41.1500	1400
	47 3-Nitroaniline	138	12.876	12.883	(0.997)	418341	27.0382	950
*	48 Acenaphthene-d10	164	12.915	12.909	(1.000)	1634583	40.0000	
	49 Acenaphthene	153	12.977	12.979	(1.005)	2137407	41.9125	1400
	50 2,4-Dinitrophenol	184	13.095	13.096	(1.014)	307406	42.3551	1400
	51 4-Nitrophenol	109	13.282	13.283	(1.029)	253727	34.7491	1200
	53 2,4-Dinitrotoluene	165	13.367	13.369	(1.035)	753664	41.1638	1400
	52 Dibenzofuran	168	13.330	13.331	(1.032)	2641476	39.9810	1300
	54 Diethylphthalate	149	13.913	13.908	(1.077)	2314907	42.3943	1400
	56 4-Chlorophenyl-phenylether	204	14.072	14.074	(1.090)	1163811	42.1329	1400
	55 Fluorene	166	14.024	14.026	(1.086)	2368589	40.1588	1300
	57 4-Nitroaniline	138	14.115	14.122	(1.093)	431004	29.5764	980
	58 4,6-Dinitro-2-methylphenol	198	14.184	14.186	(0.892)	458309	45.1087	1500(Q)
	59 N-Nitrosodiphenylamine	169	14.323	14.325	(0.900)	1584979	42.9463	1400
$	60 2,4,6-Tribromophenol	330	14.510	14.512	(0.912)	606165	77.9416	2600
	61 4-Bromophenyl-phenylether	248	15.055	15.057	(0.946)	681286	45.3107	1500
	62 Hexachlorobenzene	284	15.119	15.121	(0.950)	764014	43.3202	1400
	63 Pentachlorophenol	266	15.541	15.543	(0.977)	471301	46.6853	1500
*	64 Phenanthrene-d10	188	15.910	15.912	(1.000)	2510905	40.0000	
	65 Phenanthrene	178	15.958	15.960	(1.003)	3205825	43.6490	1400
	66 Anthracene	178	16.060	16.061	(1.009)	3233864	42.9474	1400
	67 Carbazole	167	16.429	16.414	(1.032)	2773877	44.3337	1500

Data File: S3C0377.D
Report Date: 22-Nov-2002 08:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
	68 Di-n-butylphthalate	149	17.245	17.247	(1.084)	3601055	43.8599	1500
	69 Fluoranthene	202	18.362	18.364	(1.154)	3525089	45.4059	1500
	71 Pyrene	202	18.805	18.807	(0.684)	3487576	43.9469	1500
$	72 Terphenyl-d14	244	19.211	19.213	(0.903)	2720306	47.1403	1600
	73 Butylbenzylphthalate	149	20.282	20.282	(0.953)	1719474	45.5027	1500
	74 3,3'-Dichlorobenzidine	252	21.257	21.265	(0.999)	901043	32.4448	1100
	75 Benzo(a)anthracene	228	21.257	21.259	(0.999)	3431822	44.5646	1500
*	76 Chrysene-d12	240	21.279	21.281	(1.000)	2697487	40.0000	
	78 bis(2-Ethylhexyl)phthalate	149	21.498	21.500	(1.010)	2357477	41.7460	1400
	77 Chrysene	228	21.327	21.334	(1.002)	3273323	42.9018	1400
	79 Di-n-octylphthalate	149	22.755	22.760	(0.850)	3947663	45.3876	1500
	80 Benzo(b)fluoranthene	252	23.293	23.295	(0.973)	3279443	44.8533	1500
	81 Benzo(k)fluoranthene	252	23.341	23.348	(0.975)	3287602	50.1292	1700
	82 Benzo(a)pyrene	252	23.648	23.655	(0.994)	2998994	44.7530	1500
*	83 Perylene-d12	264	23.945	23.946	(1.000)	1780908	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	25.969	25.976	(1.085)	3007829	41.1156	1400
	85 Dibenzo(a,h)anthracene	278	26.033	26.040	(1.087)	3016316	43.9984	1400
	86 Benzo(g,h,i)perylene	276	26.579	26.576	(1.110)	2937375	41.8826	1400

QC Flag Legend

11/21/02

Q - Qualifier signal failed the ratio test.

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S3PLCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: LCSD-4285
Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3C0378
Level: (low/med) LOW Date Received: _____
% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/21/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1300	
111-44-4	bis(2-Chloroethyl)Ether	1200	
95-57-8	2-Chlorophenol	1300	
541-73-1	1,3-Dichlorobenzene	1200	
106-46-7	1,4-Dichlorobenzene	1200	
95-50-1	1,2-Dichlorobenzene	1300	
95-48-7	2-Methylphenol	1400	
108-60-1	2,2'-oxybis(1-Chloropropane)	1100	
106-44-5	4-Methylphenol	1300	
621-64-7	N-Nitroso-di-n-propylamine	1400	
67-72-1	Hexachloroethane	1200	
98-95-3	Nitrobenzene	1100	
78-59-1	Isophorone	1200	
88-75-5	2-Nitrophenol	1200	
105-67-9	2,4-Dimethylphenol	1200	
120-83-2	2,4-Dichlorophenol	1400	
120-82-1	1,2,4-Trichlorobenzene	1400	
91-20-3	Naphthalene	1300	
106-47-8	4-Chloroaniline	540	
111-91-1	bis(2-Chloroethoxy)methane	1300	
87-68-3	Hexachlorobutadiene	1400	
59-50-7	4-Chloro-3-Methylphenol	1400	
91-57-6	2-Methylnaphthalene	1300	
77-47-4	Hexachlorocyclopentadiene	990	
88-06-2	2,4,6-Trichlorophenol	1400	
95-95-4	2,4,5-Trichlorophenol	1400	
91-58-7	2-Chloronaphthalene	1100	
88-74-4	2-Nitroaniline	1100	
131-11-3	Dimethylphthalate	1400	
208-96-8	Acenaphthylene	1300	
606-20-2	2,6-Dinitrotoluene	1400	
99-09-2	3-Nitroaniline	930	
83-32-9	Acenaphthene	1300	

FORM I SV-1 OLM03.0

000615

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S3PLCSD

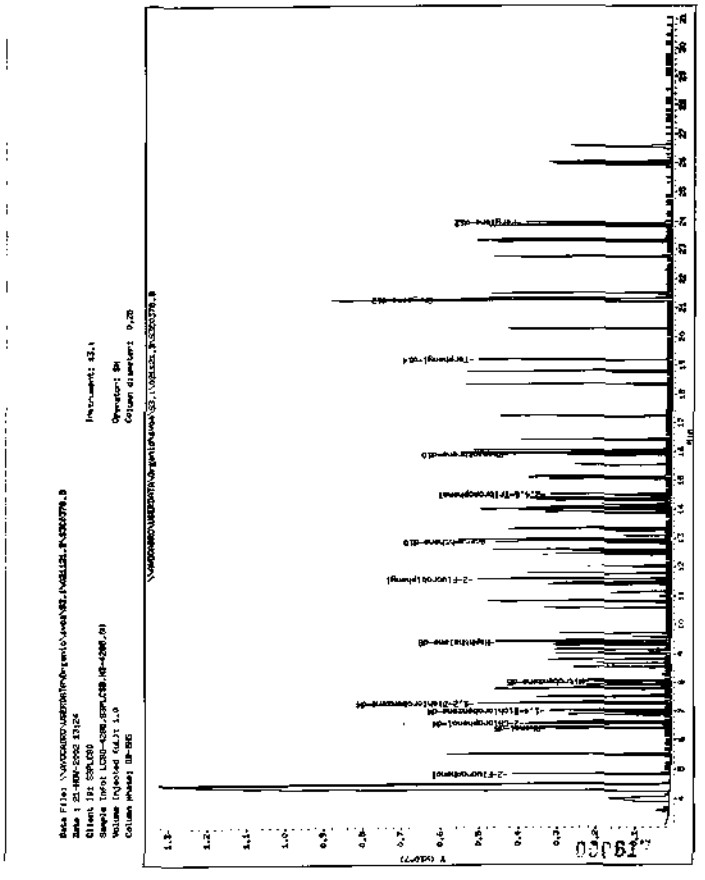
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: LCSD-4285
Sample wt/vol: 30.0 (g/mL) G Lab File ID: S3C0378
Level: (low/med) LOW Date Received: _____
% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/12/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/21/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1400	
100-02-7	4-Nitrophenol	1100	
132-64-9	Dibenzofuran	1300	
121-14-2	2,4-Dinitrotoluene	1300	
84-66-2	Diethylphthalate	1400	
7005-72-3	4-Chlorophenyl-phenylether	1300	
86-73-7	Fluorene	1300	
100-01-6	4-Nitroaniline	1000	
534-52-1	4,6-Dinitro-2-methylphenol	1400	
86-30-6	N-Nitrosodiphenylamine (1)	1300	
101-55-3	4-Bromophenyl-phenylether	1400	
118-74-1	Hexachlorobenzene	1600	
87-86-5	Pentachlorophenol	1500	
85-01-8	Phenanthrene	1400	
120-12-7	Anthracene	1400	
86-74-8	Carbazole	1400	
84-74-2	Di-n-butylphthalate	1400	
206-44-0	Fluoranthene	1500	
129-00-0	Pyrene	1400	
85-68-7	Butylbenzylphthalate	1500	
91-94-1	3,3'-Dichlorobenzidine	1200	
56-55-3	Benzo(a)anthracene	1500	
218-01-9	Chrysene	1400	
117-81-7	bis(2-Ethylhexyl)phthalate	1400	
117-84-0	Di-n-octylphthalate	1500	
205-99-2	Benzo(b)fluoranthene	1400	
207-08-9	Benzo(k)fluoranthene	1600	
50-32-8	Benzo(a)pyrene	1500	
193-39-5	Indeno(1,2,3-cd)pyrene	1400	
53-70-3	Dibenzo(a,h)anthracene	1400	
191-24-2	Benzo(g,h,i)perylene	1400	

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

000616



000617

Data File: S3C0378.D
Report Date: 22-Nov-2002 08:56

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021121.B\S3C0378.D
Lab Smp Id: LCSD-4285 Client Smp ID: S3PLCSD
Inj Date : 21-NOV-2002 13:24
Operator : SH Inst ID: S3.i
Smp Info : LCSD-4285,S3PLCSD,MB-4285,SH
Misc Info : 3,,LCSD,2,,,,,,,12-NOV-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021121.B\S3_8270C.m
Meth Date : 22-Nov-2002 08:50 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 5 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-%))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL) (1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
%	0.000	% Moisture

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
	2 2-Fluorophenol	112	4.845	4.749	(0.999)	1517992	55.3489	1900
S	3 Phenol-d5	99	5.428	5.403	(0.911)	1876401	56.3608	1900
	4 Phenol	94	5.441	5.439	(0.918)	1406589	38.2588	1300
	5 bis(2-Chloroethyl)Ether	93	5.595	5.584	(0.959)	1605189	36.8138	1200
S	6 2-Chlorophenol-d4	132	5.620	5.606	(0.965)	1588540	39.8620	2000
	10 2-Chlorophenol	128	5.650	5.638	(0.967)	1088226	39.9963	1340
	11 1,3-Dichlorobenzene	146	5.908	5.908	(0.986)	1066657	55.5749	1200
*	12 1,4-Dichlorobenzene-d4	152	7.020	7.012	(1.000)	788219	40.0000	
	13 1,4-Dichlorobenzene	146	7.047	7.064	(1.004)	3082150	36.8774	1300
S	14 1,2-Dichlorobenzene-d4	152	7.287	7.284	(1.038)	697867	38.8870	2200
	15 1,2-Dichlorobenzene	146	7.314	7.332	(1.042)	1051666	37.7374	1200
	17 2-Methylphenol	108	7.347	7.344	(1.072)	1011060	41.1114	1400
	18 2,2'-oxybis(1-Chloropropane)	45	7.565	7.562	(1.078)	1301165	32.8823	1100

000618

Data File: S3C0378.D
Report Date: 22-Nov-2002 08:56

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
20 4-Methylphenol	108	7.811	7.813	(1.113)	1050312	38.1198	1300
19 N-Nitroso-di-n-propylamine	70	7.600	7.602	(1.222)	482279	49.2918	2400
21 Hexachloroethane	117	7.928	7.931	(1.129)	404260	36.2234	1200
$ 22 Nitrobenzene-d5	82	8.046	8.048	(0.955)	1041388	35.2038	1200
23 Nitrobenzene	77	8.083	8.085	(0.959)	1018640	32.8339	1100
24 Isophorone	82	8.553	8.556	(0.909)	1880025	37.2726	1200
25 2-Nitrophenol	139	8.697	8.699	(0.923)	577814	37.6435	1300
26 2,4-Dimethylphenol	107	8.826	8.825	(0.938)	940891	35.7286	1200
27 bis(2-Chloroethoxy)methane	93	9.013	9.015	(0.958)	1283347	38.0405	1300
29 2,4-Dichlorophenol	162	9.157	9.159	(0.973)	912747	41.9391	1400
30 1,2,4-Trichlorobenzene	180	9.312	9.309	(0.990)	905712	40.5286	1400
* 31 Naphthalene-d8	136	9.408	9.410	(1.000)	2807349	40.0000	
32 Naphthalene	128	9.451	9.453	(1.005)	2997454	38.5530	1300
33 4-Chloroaniline	127	9.590	9.624	(1.019)	500239	16.0651	540
34 Hexachlorobutadiene	225	9.718	9.715	(1.033)	485879	41.3951	1400
35 4-Chloro-3-Methylphenol	107	10.594	10.596	(1.126)	1000460	41.6409	1400
36 2-Methylnaphthalene	142	10.829	10.831	(1.151)	2077026	38.9503	1300
38 Hexachlorocyclopentadiene	237	11.150	11.147	(0.864)	384183	29.7803	990
39 2,4,6-Trichlorophenol	196	11.417	11.414	(0.885)	671038	42.6607	1400
40 2,4,5-Trichlorophenol	196	11.481	11.478	(0.889)	714634	42.6367	1400
$ 41 2-Fluorobiphenyl	172	11.588	11.601	(0.899)	2352089	41.0529	1400
43 2-Chloronaphthalene	162	11.796	11.798	(0.914)	1655195	33.8979	1100
44 2-Nitroaniline	65	13.036	13.044	(0.933)	567631	32.5488	1100
44 Dimethylphthalate	163	13.464	13.466	(0.966)	2342365	42.1356	1400
45 2,4-Dinitrotoluene	165	13.565	13.568	(0.974)	581496	41.1923	1400
46 Acenaphthylene	152	13.619	13.621	(0.978)	3183248	38.9273	1300
47 3-Nitroaniline	138	12.875	12.895	(0.998)	433969	27.9857	930
* 48 Acenaphthene-d10	164	13.907	13.909	(1.000)	1642165	40.0000	
49 Acenaphthene	153	12.977	12.979	(1.005)	2009849	39.2293	1300
50 2,4-Dinitrophenol	184	13.094	13.096	(1.014)	297406	40.7400	1400
51 4-Nitrophenol	109	13.281	13.283	(1.029)	247174	33.8297	1100
53 2,4-Dinitrotoluene	165	13.367	13.369	(1.036)	704893	39.3667	1300
52 Dibenzofuran	168	13.329	13.331	(1.033)	2793656	38.0187	1300
54 Diethylphthalate	149	13.912	13.908	(1.078)	2240075	40.8364	1400
56 4-Chlorophenyl-phenylether	204	14.072	14.074	(1.090)	1108926	39.9605	1300
55 Fluorene	166	14.024	14.026	(1.087)	2293343	38.7035	1300
57 4-Nitroaniline	138	14.115	14.122	(1.094)	443173	30.2710	1000
58 4,6-Dinitro-2-methylPhenol	198	14.184	14.186	(0.899)	446777	42.7671	1400 (Q)
59 N-Nitrosodiphenylamine	169	14.323	14.325	(0.908)	1900073	39.5309	1300
$ 60 2,4,6-Tribromophenol	330	14.510	14.512	(0.912)	582746	72.8742	2400
61 4-Bromophenyl-phenylether	248	15.049	15.047	(0.946)	659233	42.3822	1400
62 Hexachlorobenzene	284	15.119	15.121	(0.950)	738634	46.5884	1600
63 Pentachlorophenol	266	15.561	15.563	(0.977)	469350	45.2164	1500
* 64 Phenanthrene-d10	188	15.910	15.912	(1.000)	2581749	40.0000	
65 Phenanthrene	178	15.958	15.960	(1.003)	3159522	41.8381	1400
66 Anthracene	178	16.059	16.061	(1.009)	3176263	41.0252	1400
67 Carbazole	167	16.422	16.414	(1.032)	2893961	41.9313	1400

Data File: S3C0378.D
Report Date: 22-Nov-2002 08:56

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
68 Di-n-butylphthalate	149	17.245	17.247	(1.084)	3818879	42.8564	1400
69 Fluoranthene	202	18.362	18.364	(1.154)	3504219	43.8985	1500
71 Pyrene	202	18.805	18.807	(0.884)	3503920	42.5930	1400
$ 72 Terphenyl-d14	244	19.211	19.213	(0.903)	2729417	45.6068	1500
73 Butylbenzylphthalate	149	20.279	20.282	(0.953)	1742910	44.6565	1500
74 3,3'-Dichlorobenzidine	252	21.262	21.265	(0.999)	1052260	35.5345	1200
75 Benzo(a)anthracene	228	21.257	21.259	(0.999)	1510953	43.9615	1500
* 76 Chrysene-d12	240	21.278	21.281	(1.000)	2797568	40.0000	
78 bis(2-Ethylhexyl)phthalate	149	21.497	21.500	(1.010)	2412356	41.1899	1400
77 Chrysene	228	21.326	21.334	(1.002)	3143058	42.2235	1400
79 Di-n-octylphthalate	149	22.758	22.760	(0.950)	4043762	44.0723	1500
80 Benzo(b)fluoranthene	252	23.292	23.295	(0.973)	3368805	43.6771	1400
81 Benzo(k)fluoranthene	252	23.346	23.349	(0.975)	3390743	43.0047	1400
82 Benzo(a)pyrene	252	23.853	23.855	(0.996)	3110782	44.0047	1500
* 83 Perylene-d12	264	23.949	23.946	(1.000)	1878702	40.0000	
84 Indeno(1,2,3-cd)pyrene	276	25.974	25.976	(1.085)	3179566	41.2007	1400
85 Dibenzo(a,h)anthracene	278	26.099	26.040	(1.087)	3198191	42.2142	1400
86 Benzo(g,h,i)perylene	276	26.572	26.575	(1.110)	3135749	42.3837	1400

QC Flag Legend

Q - Qualifier signal failed the ratio test.

11/25/02

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S3ZLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: LCS-4362
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0454
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/14/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/25/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	13	
111-44-4	bis(2-Chloroethyl)Ether	35	
95-57-8	2-Chlorophenol	37	
541-73-1	1,3-Dichlorobenzene	36	
106-46-7	1,4-Dichlorobenzene	36	
95-50-1	1,2-Dichlorobenzene	36	
95-48-7	2-Methylphenol	33	
108-60-1	2,2'-oxybis(1-Chloropropane)	41	
106-44-5	4-Methylphenol	28	
621-64-7	N-Nitroso-di-n-propylamine	40	
67-72-1	Hexachloroethane	35	
98-95-3	Nitrobenzene	36	
78-59-1	Isophorone	38	
88-75-5	2-Nitrophenol	41	
105-67-9	2,4-Dimethylphenol	30	
120-83-2	2,4-Dichlorophenol	41	
120-82-1	1,2,4-Trichlorobenzene	38	
91-20-3	Naphthalene	40	
106-47-8	4-Chloroaniline	9	J
111-91-1	bis(2-Chloroethoxy)methane	39	
87-68-3	Hexachlorobutadiene	34	
59-50-7	4-Chloro-3-Methylphenol	40	
91-57-6	2-Methylnaphthalene	40	
77-47-4	Hexachlorocyclopentadiene	23	
88-06-2	2,4,6-Trichlorophenol	41	
95-95-4	2,4,5-Trichlorophenol	42	
91-58-7	2-Chloronaphthalene	36	
88-74-4	2-Nitroaniline	40	
131-11-3	Dimethylphthalate	44	
208-96-8	Acenaphthylene	41	
606-20-2	2,6-Dinitrotoluene	43	
99-09-2	3-Nitroaniline	38	
83-32-9	Acenaphthene	41	

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

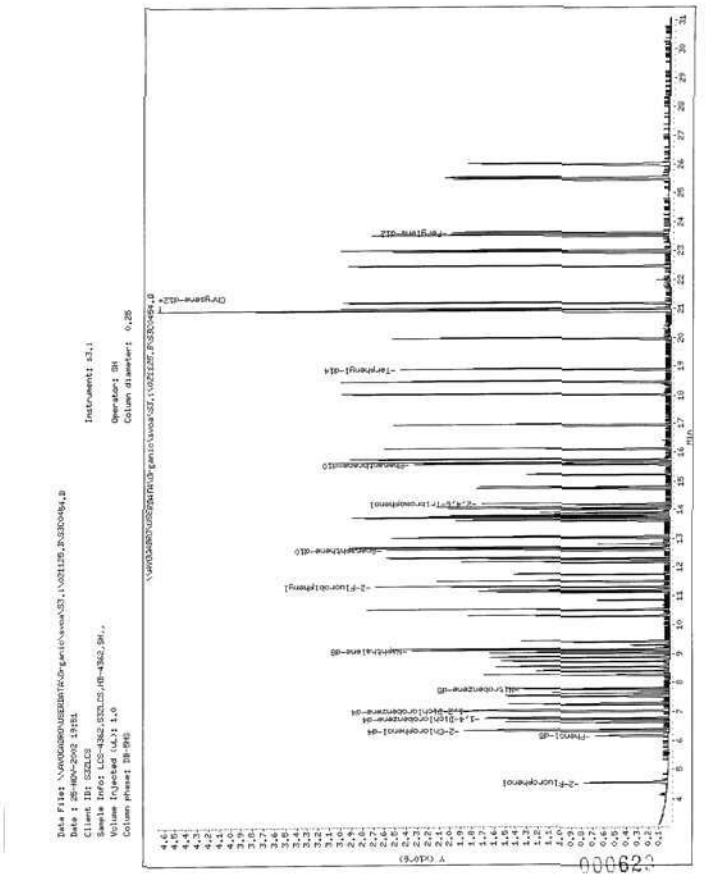
EPA SAMPLE NO.
S3ZLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: LCS-4362
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S3C0454
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:11/14/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/25/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	40	
100-02-7	4-Nitrophenol	14	J
132-64-9	Dibenzofuran	41	
121-14-2	2,4-Dinitrotoluene	44	
84-66-2	Diethylphthalate	44	
7005-72-3	4-Chlorophenyl-phenylether	39	
86-73-7	Fluorene	41	
100-01-6	4-Nitroaniline	42	
534-52-1	4,6-Dinitro-2-methylphenol	44	
86-30-6	N-Nitrosodiphenylamine (1)	41	
101-55-3	4-Bromophenyl-phenylether	38	
118-74-1	Hexachlorobenzene	44	
87-86-5	Pentachlorophenol	43	
85-01-8	Phenanthrene	44	
120-12-7	Anthracene	42	
86-74-8	Carbazole	50	
84-74-2	Di-n-butylphthalate	46	
206-44-0	Fluoranthene	44	
129-00-0	Pyrene	47	
85-68-7	Butylbenzylphthalate	53	
91-94-1	3,3'-Dichlorobenzidine	37	
56-55-3	Benzo(a)anthracene	44	
218-01-9	Chrysene	45	
117-81-7	bis(2-Ethylhexyl)phthalate	48	
117-84-0	Di-n-octylphthalate	48	
205-99-2	Benzo(b)fluoranthene	44	
207-08-9	Benzo(k)fluoranthene	50	
50-32-8	Benzo(a)pyrene	45	
193-39-5	Indeno(1,2,3-cd)pyrene	44	
53-70-3	Dibenzo(a,h)anthracene	44	
191-24-2	Benzo(g,h,i)perylene	45	

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0



Data File: S3C0454.D
Report Date: 26-Nov-2002 10:11

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021125.B\S3C0454.D
Lab Smp Id: LCS-4362 Client Smp ID: S3ZLCS
Inj Date : 25-NOV-2002 19:51
Operator : SH Inst ID: s3.i
Smp Info : LCS-4362,S3ZLCS,MB-4362,SH,,
Misc Info : 3,,LCS,1,,,,,,,14-NOV-02,
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\S3.i\021125.B\S3_8270C.m
Meth Date : 25-Nov-2002 11:56 mtl Quant Type: ISTD
Cal Date : 12-NOV-2002 20:21 Cal File: S3C0235.D
Als bottle: 15 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.Sub
Target Version: 4.03
Processing Host: TARGET2

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
$	3 2-Fluorophenol	112	4.570	4.573	(0.677)	466288	30.3946	30
$	5 Phenol-d5	99	6.157	6.164	(0.911)	377427	19.5939	20
	6 Phenol	94	6.178	6.185	(0.915)	270787	13.1841	13(Q)
	9 bis(2-Chloroethyl)Ether	93	6.327	6.330	(0.937)	572891	35.9727	35
$	8 2-Chlorophenol-d4	132	6.349	6.351	(0.940)	895917	56.7773	57
	10 2-Chlorophenol	128	6.375	6.383	(0.944)	576439	36.8338	37
	11 1,3-Dichlorobenzene	146	6.649	6.645	(0.985)	592273	36.0628	36
*	12 1,4-Dichlorobenzene-d4	152	6.755	6.752	(1.000)	443134	40.0000	
	13 1,4-Dichlorobenzene	146	6.782	6.784	(1.004)	620128	35.8750	36
$	14 1,2-Dichlorobenzene-d4	152	7.017	7.019	(1.039)	396125	40.5225	40
	16 1,2-Dichlorobenzene	146	7.043	7.045	(1.043)	568128	36.9599	36
	17 2-Methylphenol	108	7.262	7.265	(1.075)	452353	32.9932	33
	18 2,2'-oxybis(1-Chloropropane)	45	7.305	7.302	(1.081)	811246	40.7973	41(Q)
	20 4-Methylphenol	108	7.556	7.558	(1.119)	429880	27.9125	28

Data File: S3C0454.D
Report Date: 26-Nov-2002 10:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
	19 N-Nitroso-di-n-propylamine	70	7.540	7.542	(1.116)	338347	40.2657	40
	21 Hexachloroethane	117	7.652	7.654	(1.133)	214957	34.7993	35
$	22 Nitrobenzene-d5	82	7.779	7.777	(0.952)	482310	40.8599	41
	23 Nitrobenzene	77	7.813	7.819	(0.956)	433623	36.1297	36
	24 Isophorone	82	8.280	8.285	(0.908)	1089232	38.2571	38
	25 2-Nitrophenol	139	8.411	8.413	(0.922)	358082	41.3288	41
	26 2,4-Dimethylphenol	107	8.560	8.563	(0.938)	447494	30.1047	30
	27 bis(2-Chloroethoxy)methane	93	8.747	8.750	(0.958)	746608	39.2070	39
	29 2,4-Dichlorophenol	162	8.886	8.889	(0.974)	502877	40.9355	41
	30 1,2,4-Trichlorobenzene	180	9.031	9.033	(0.989)	473597	37.5648	38
*	31 Naphthalene-d8	136	9.127	9.129	(1.000)	1584628	40.0000	
	32 Naphthalene	128	9.168	9.172	(1.005)	1743184	39.6980	40
	33 4-Chloroaniline	127	9.314	9.316	(1.020)	163187	9.29595	9(a)
	34 Hexachlorobutadiene	225	9.437	9.439	(1.034)	325002	33.9529	34
	35 4-Chloro-3-Methylphenol	107	10.328	10.331	(1.132)	545817	40.2479	40
	36 2-Methylnaphthalene	142	*10.942*	*10.945*	*(1.199)*	*1199896*	*38.8474*	*40*
	38 Hexachlorocyclopentadiene	237	10.863	10.865	(0.861)	162017	23.0406	23
	39 2,4,6-Trichlorophenol	196	11.130	11.132	(0.883)	348194	40.6111	41
	40 2,4,5-Trichlorophenol	196	11.194	11.196	(0.888)	379194	41.5053	42
$	41 2-Fluorobiphenyl	172	11.312	11.314	(0.897)	1347110	43.1355	43
	42 2-Chloronaphthalene	162	11.504	11.506	(0.912)	856087	35.9222	36
	43 2-Nitroaniline	65	11.750	11.752	(0.932)	376521	39.6095	40
	44 Dimethylphthalate	163	12.182	12.185	(0.966)	1320490	43.9756	44
	45 2,6-Dinitrotoluene	165	12.379	12.381	(0.974)	322502	43.4054	43
	46 Acenaphthylene	152	12.521	12.523	(0.977)	1814719	40.9693	41
	47 3-Nitroaniline	138	12.596	12.591	(0.998)	322657	38.1665	38
*	48 Acenaphthene-d10	164	12.610	12.612	(1.000)	895107	40.0000	
	49 Acenaphthene	153	12.674	12.676	(1.005)	1135055	40.6441	41
	50 2,4-Dinitrophenol	184	12.813	12.815	(1.016)	159075	39.8775	40
	51 4-Nitrophenol	109	13.010	13.013	(1.032)	56997	14.2863	14(aQ)
	53 2,4-Dinitrotoluene	165	13.080	13.082	(1.037)	430992	44.1930	44
	52 Dibenzofuran	168	13.032	13.034	(1.033)	1607299	41.0102	41
	54 Diethylphthalate	149	13.625	13.627	(1.080)	1311177	43.8518	44
	56 4-Chlorophenyl-phenylether	204	13.774	13.777	(1.092)	585625	38.7140	39
	55 Fluorene	166	13.721	13.723	(1.088)	1322659	40.9516	41
	57 4-Nitroaniline	138	13.822	13.825	(1.096)	336610	42.1815	42
	58 4,6-Dinitro-2-Methylphenol	198	13.892	13.894	(0.891)	262025	44.2385	44(Q)
	59 N-Nitrosodiphenylamine	169	14.035	14.038	(0.899)	878220	40.9188	41
$	60 2,4,6-Tribromophenol	330	14.207	14.209	(0.911)	351148	77.4506	77
	61 4-Bromophenyl-Phenylether	248	14.752	14.754	(0.946)	331812	37.9546	38
	62 Hexachlorobenzene	284	14.811	14.813	(0.950)	391769	43.9574	44
	63 Pentachlorophenol	266	15.238	15.240	(0.977)	251964	42.9131	43
*	64 Phenanthrene-d10	188	15.596	15.598	(1.000)	1483777	40.0000	
	65 Phenanthrene	178	15.644	15.646	(1.003)	1869770	43.6895	44
	66 Anthracene	178	15.746	15.748	(1.010)	1866365	42.5178	43
	67 Carbazole	167	16.120	16.116	(1.034)	1813286	49.7801	50
	68 Di-n-butylphthalate	*149*	*18.853*	*18.855*	*(2.087)*	*3336431*	*46.2058*	*46*

Data File: S3C0454.D
Report Date: 26-Nov-2002 10:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
	69 Fluoranthene	202	18.043	18.045	(1.157)	2012556	44.4678	44
	71 Pyrene	202	18.481	18.488	(0.882)	1991675	47.1268	47
$	72 Terphenyl-d14	244	18.897	18.900	(0.902)	1396116	45.4072	45
	73 Butylbenzylphthalate	149	19.977	19.973	(0.954)	1057864	52.7252	53
	74 3,3'-Dichlorobenzidine	252	20.964	20.966	(1.000)	554110	37.4474	37
	75 Benzo(a)anthracene	228	20.927	20.930	(0.999)	1807440	44.0513	44
*	76 Chrysene-d12	240	20.949	20.951	(1.000)	1437241	40.0000	
	78 bis(2-Ethylhexyl)phthalate	149	21.202	21.202	(1.012)	1448295	48.1342	48
	77 Chrysene	228	20.997	20.999	(1.002)	1730015	45.2375	45
	79 Di-n-octylphthalate	149	22.458	22.457	(0.951)	3551564	48.1178	48
	80 Benzo(b)fluoranthene	252	22.958	22.960	(0.972)	1965364	44.0900	44
	81 Benzo(k)fluoranthene	252	23.011	23.013	(0.975)	1995467	49.9007	50
	82 Benzo(a)pyrene	252	23.513	23.515	(0.996)	1825328	44.6776	45
*	83 Perylene-d12	264	23.609	23.611	(1.000)	1065772	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	25.490	25.492	(1.080)	1951375	43.7519	44
	85 Dibenzo(a,h)anthracene	278	25.568	25.581	(1.082)	1850977	44.5580	44
	86 Benzo(g,h,i)perylene	276	26.035	26.037	(1.103)	1926092	45.0457	45

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

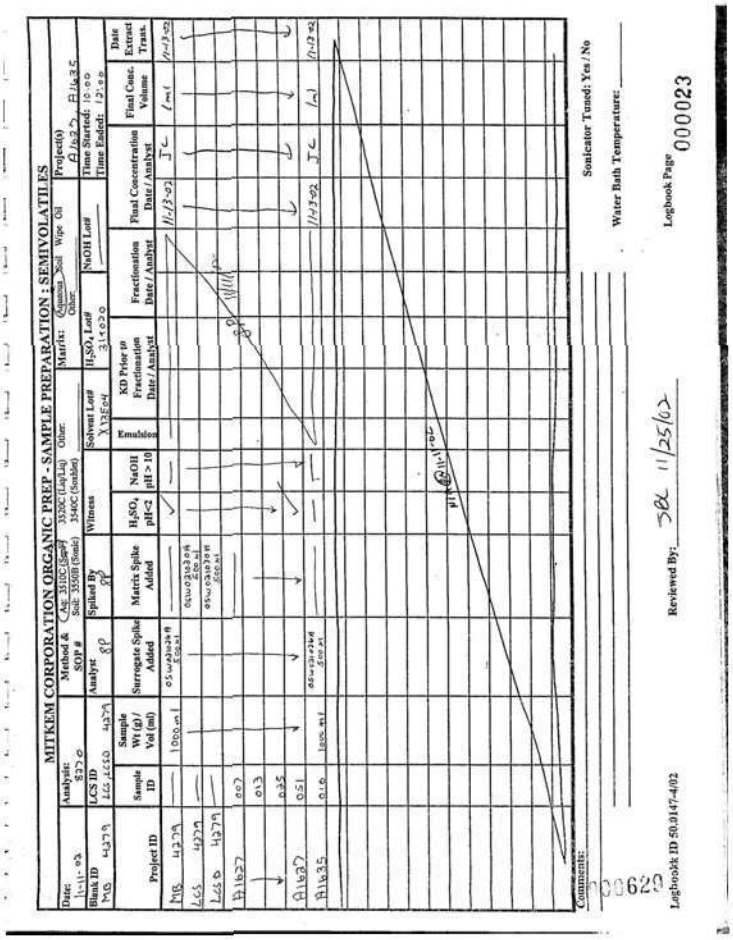
Percent Moisture and Percent Solids Report

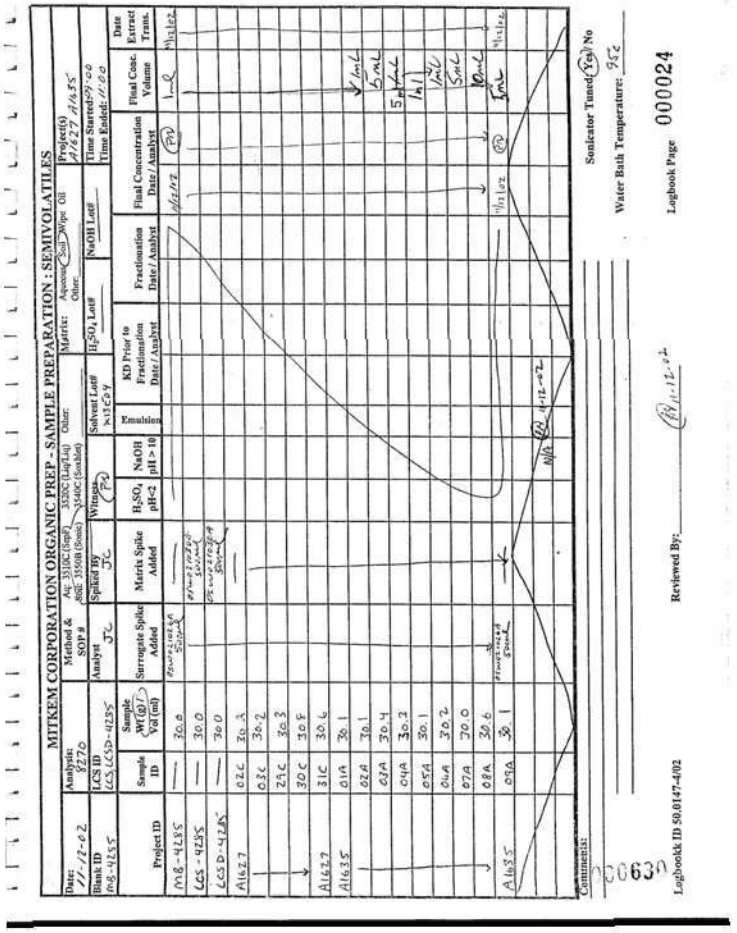
Mitkem Sample ID	Client Sample ID	Analyzed	Percent Moisture	Percent Solids	Validated
A1627-01A	04 NOV 02 AOC1+12-T	11/14/2002	19	81	Yes
A1627-02C	04 NOV 02 AOC1+12-T	11/14/2002	13	87	Yes
A1627-03C	04 NOV 02 AOC1+12T	11/14/2002	9	91	Yes
A1627-04A	04 NOV 02 AOC1+12-S	11/14/2002	20	80	Yes
A1627-05A	04 NOV 02 AOC1+12-S	11/14/2002	17	83	Yes
A1627-08A	04 NOV 02 AOC1+12-S	11/14/2002	39	61	Yes
A1627-09A	04 NOV 02 AOC1+12-S	11/14/2002	11	89	Yes
A1627-10A	04 NOV 02 AOC1+12-S	11/14/2002	23	77	Yes
A1627-11A	04 NOV 02 AOC1+12-S	11/14/2002	19	81	Yes
A1627-12A	04 NOV 02 AOC1+12-S	11/14/2002	12	88	Yes
A1627-14A	05 NOV 02-AOC13-SS-	11/14/2002	11	89	Yes
A1627-15A	05 NOV 02-AOC13-SS-	11/14/2002	20	80	Yes
A1627-16A	05 NOV 02-AOC13-SS-	11/14/2002	11	89	Yes
A1627-17A	05 NOV 02-AOC13-SS-	11/14/2002	9	91	Yes
A1627-18A	05 NOV 02-AOC13-SS-	11/14/2002	16	84	Yes
A1627-19A	05 NOV 02-AOC13-SS-	11/14/2002	13	87	Yes
A1627-20A	05 NOV 02-AOC13-SS-	11/14/2002	16	84	Yes
A1627-21A	05 NOV 02-AOC13-SS-	11/14/2002	7	93	Yes
A1627-22A	05 NOV 02-AOC13-SS-	11/14/2002	20	80	Yes
A1627-23A	05 NOV 02-AOC13-SS-	11/14/2002	6	94	Yes
A1627-24A	05 NOV 02-AOC13-SS-	11/14/2002	12	88	Yes
A1627-26A	05 NOV 02AOC13-SS-D	11/14/2002	16	84	Yes
A1627-27A	05 NOV 02 AOC13-SS-	11/14/2002	16	84	Yes
A1627-28A	05 NOV 02 AOC13-SS-	11/14/2002	14	86	Yes
A1627-29C	05 NOV 02 AOC13-SS-	11/14/2002	16	84	Yes
A1627-30C	05 NOV 02 AOC13-SS-	11/14/2002	15	85	Yes
A1627-31C	05 NOV 02 AOC13-SS-	11/14/2002	6	94	Yes
A1627-32A	04 NOV 02 AOC13-SS-	11/14/2002	2	98	Yes
A1627-33A	04 NOV 02 AOC13-SS-	11/14/2002	10	90	Yes
A1627-34A	04 NOV 02 AOC13-SS-	11/14/2002	10	90	Yes
A1627-35A	05 NOV 02 AOC13-SS-	11/14/2002	16	84	Yes
A1627-38A	06 NOV02-AOC2-SS-TB	11/14/2002	11	89	Yes
A1627-39A	06 NOV02-AOC2-SS-TB	11/14/2002	15	85	Yes
A1627-40A	06 NOV02-AOC2-SS-TB	11/14/2002	7	93	Yes
A1627-41A	06 NOV02-AOC2-SS-TB	11/14/2002	17	83	Yes
A1627-42A	07 NOV02-AOC2-SS-TB	11/14/2002	7	93	Yes
A1627-43A	07 NOV02-AOC2-SS-TB	11/14/2002	10	90	Yes
A1627-44A	04 NOV02-AOC1+12-S	11/14/2002	2	98	Yes
A1627-45A	04 NOV02-AOC1+12-S	11/14/2002	11	89	Yes
A1627-46A	04 NOV02-AOC1+12-S	11/14/2002	4	96	Yes

000627

Mitkem Sample ID	Client Sample ID	Analyzed	Percent Moisture	Percent Solids	Validated
A1627-47A	04 NOV02-AOC1+12-S	11/14/2002	7	93	Yes
A1627-49A	07 NOV02-AOC2-SS-TB	11/14/2002	12	88	Yes
A1627-50A	07 NOV02-AOC2-SS-TB	11/14/2002	9	91	Yes
A1627-52A	07 NOV02-AOC2-SS-D	11/14/2002	93	7	Yes
A1627-52A	07 NOV02-AOC2-SS-D	11/20/2002	10	90	Yes
A1627-53A	07 NOV02-AOC2-SS-D	11/14/2002	10	90	Yes
A1627-54A	07 NOV02-AOC2-SS-D	11/14/2002	15	85	Yes
A1627-55A	07 NOV02-AOC2-SS-D	11/14/2002	12	88	Yes
A1627-56A	07 NOV02-AOC2-SS-TB	11/14/2002	9	91	Yes
A1627-57A	07 NOV02-AOC2-SS-TB	11/14/2002	13	87	Yes
A1627-58A	07 NOV02-AOC2-SS-TB	11/14/2002	9	91	Yes
A1627-59A	07 NOV02-AOC2-SS-TB	11/14/2002	15	85	Yes

000628





MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : SEMIVOLATILES

Date: 11-14-02 | Analysis: 8270 | Method & SOP #: Aq: 3510C (Sep/F) 3520C (Liq/Liq); Soil: 3550B (Sonic) 3540C (Soxhlet) | Matrix: Aqueous, Soil, Wipe, Oil, Other: | Project(s): A1620, A1656, A1659, A1627/A1634

Blank ID: MB 4362 | LCS ID: LCS 4362 | Analyst: 8P | Spiked By: 8P | Witness: | Solvent Lot#: X13 E04 | H_2SO_4 Lot#: 319020 | NaOH Lot#: | Time Started: 18:00 | Time Ended: 19:00

Project ID	Sample ID	Sample Wt (g)/ Vol (ml)	Surrogate Spike Added	Matrix Spike Added	H_2SO_4 pH<2	NaOH pH>10	Emulsion	KD Prior to Fractionation Date / Analyst	Fractionation Date / Analyst	Final Concentration Date / Analyst	Final Conc. Volume	Date Extract Trans.
MB	4362	1000 ml			✓					11-14-02 8P	1ml	11-14
LCS	4362				✓					11-14-02 8P	1ml	11-14
A1620	001				✓					11/21/02 JR	1ml	11/21/02
A1620	002				✓							
A1634	001				✓							
A1634	002				✓							
A1656	016				✓							
A1656	05MS				✓					11/22/02 JC	1ml	11/22/02
A1656	05MSD				✓					11-14-02 8P	1ml	11-14
A1659	012				✓				11-18-02	11/18/02 BRJC	1ml	11/18/02
A1627	036	500 ml			✓				11-18-02	11/18/02 8P JC	1ml	11/18/02
A1627	037										SBL 11/25/02	

Comments: 11/18/02 8P

Sonicator Tuned: Yes / No

Water Bath Temperature: 40°C

Reviewed By: PR 11-20-02

Logbook ID 50.0147-4/02 Logbook Page 000036

000631

MITKEM CORPORATION EXTRACT TRANSFER LOGBOOK: SEMIVOLATILE ANALYSIS

Date Transferred from Prep Lab	Lab ID		Transferred By	Received By	Storage Location	Comments
11-12-02	A1572	015msD	JC	YK	R12	
		016				
		017				
		018				
		019				
		021 JC 020				
		022				
		023				
		024				
11-12-02	A1572	026	JC			
	MB 4285		8P		R-7	
	LCS 4286					
	LCSD 4285					
	A1635	001				
		002				
		003				
		004				
		005				
		006				
		007				
		008				
11-12-02	A1635	009	8P		R-7	
	MB 4350	—		GC	R7	
	LCS 4350	—				
	LCSD 4350	—				
	A1604	001				
11-12-02	A1604	002	8P	GC	R7	
11-13-02	MB-4279		JC			
	LCS-4279					
	LCSD-4279					
	A1627	007				
		013				
		025				
	A1627	051				
11-13-02	A1635	010	JC	GC	R7	

Logbook ID 70.0141-1/02 Reviewed By: GC 11/15/02 Logbook Page: 000017

000632

MITKEM CORPORATION EXTRACT TRANSFER LOGBOOK: SEMIVOLATILE ANALYSIS

Date Transferred from Prep Lab	Lab ID		Transferred By	Received By	Storage Location	Comments
11-14-02	A1648	001	JC	GC	R7	
	A1658	001				
	MB-4289					
	LCS-4289					
	LCSD-4289					
	A1621	001				
		002				
		003				
		004				
		005				
		006				
		007				
		008				
		009				
		010				
		011				
		012				
		013				
		014				
		015				
11-14-02	A1621	016	JC	GC	R7	
	MB 4362	—	8P			
	LCS 4362	—				
11-14-02	A1659	012	8P	GC	R7	
11-15-02	A1592	002	JC		R-7	
		003				
		004				
		004ms				
		004msD				
		005				
		006				
		007				
		008				
		013				
11-15-02	A1592	014	JC		R-7	

Logbook ID 70.0141-1/02 Reviewed By: Logbook Page: 000019

000633

MITKEM CORPORATION EXTRACT TRANSFER LOGBOOK: SEMIVOLATILE ANALYSIS

Date Transferred from Prep Lab	Lab ID		Transferred By	Received By	Storage Location	Comments
11-15-02	A1592	015	JC		R-7	
	MB-4152					
	LCS-4152					
	A1588	008				
11-15-02	A1588	009	JC		R-7	
11-18-02	A1622	004	JC	GC		
	A1627	007				
		003				
		029				
		030				
	A1627	031				
	A1588	010				
		011				
		013				
		013ms				
		013msD				
		014				
		015				
		016				
		017				
		019				
	A1599	020				
	A1622	001		GC		FUS-1
11-18-02	A1622	005	JC	GC		
11-19-02	A1627-036		JC			
11-19-02	A1627 037		JC			
11-19-02 JC 11-18	GCC02112	SB1	8P	GC	R7	
~~11-19-02~~	A1621	001 RE	JC			
	~~A1621 D~~	004				
	~~A1622~~	001	JC 11-19-02			
11-18-02	A1622	005	JC			
11-18-02	MB-4357		JC	GC	R7	
	A1623	001				
		002				
11-18-02	A1623	003	JC	GC	R7	

Logbook ID 70.0141-1/02 Reviewed By: SBL 11/25/02 Logbook Page: 000020

000634

Mitkem Corporation SVOA GC/MS Logbook Instrument S3

Date 11/18/02 | Tune Time Begin 10:48 | Tune Time End 22:27 | EMV 1718 | Initial Calibration Date 11/12/02 (8270) | TF PCP | % BKD DDT | Analyst GL | Benzidine

File ID		Lab ID		Client ID		Method	Dilution	Comments		IS	Surr.
S3C03	24	ST1118A		DFTPP3R		DFTPP	—		10:48		
	25	SS1118A		SSTD0013R		BNA	—			OK	OK
	26	MB-4152		SBLK3L			—			OK	OK/GL
	27	LCS-4152		S3LLCS			—	✓		✓	OK
	28	A1622 -	01A	S-1			—	✓		OK	OK
	29	✓	05A	S-5			—	✓		OK	OK
	30	A1622 -	08A	S-4			—	✓		OK	OK
	31	A1621 -	05A	1A-A	DL		40	OK	OLP-91	✓	2DL
	32		06A	1A-B	DL		40	OK	RLP-84	✓	3DL
	33		07A	1A-A	DL		40	OK	PLP-96	✓	3DL
	34		08A	1A-B	DL		40	OK	RP-91	✓	3DL
	35		09A	20-A	DL		20	OK	PLP-98	✓	✓
	36	↓	11A	20-B	DL		20	OK	RP-110	✓	✓
	37	A1621	16A	2A-B	DL		8	OK	RP-120	✓	✓
	38	A1627 -	02C	12TB1584			—	OK (clean)		✓	✓
	39		03C	12TB1068			—	OK (clean)		✓	✓
	40		29C	13SSTB3435			—	OK		✓	✓
	41	↓	30C	13SSTB2413			—	OK (clean)	22:27	✓	✓
	42	A1627 -	31C	13SSTB3124			—	OK RR OTT	23:09	✓	✓
S3C03	43	CCV		—		BNA	-	*	23:53		

Daily Maintenance: Gold Seal –, Liner ✓, Clipped Column ✓, Ferrule –

Comments * Hexachlorocyclopentadiene, 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol <35

Reviewed by SBL 11/25/02

Logbook ID 70.0192-1/02 | Logbook Page 000 88

Mitkem Corporation SVOA GC/MS Logbook Instrument S3

Date 11/12/02 | Tune Time Begin 16:19 | Tune Time End 21:03 | EMV 1718 | Initial Calibration Date 11/12/02 (8270) | TF PCP | % BKD DDT | Analyst GL/GL | Benzidine

File ID		Lab ID		Client ID		Method	Dilution	Comments	IS	Surr.
S3C02	29	ST1112B		DFTPP3K		DFTPP		manual tuning preceding point, ok		
	30	SS1112B		SSTD050	3K	BNA		ok for 8270-C11		
	31	SS1112C		SSTD160						
	32	SS1112D		SSTD012				MS		
	33	SS1112E		SSTD020						
	34	SS1112F		SSTD080						
	35	SS1112G		SSTD120	31C					
S3C02	36	ICV		—		BNA		OK 23:03		

11/13/02

Daily Maintenance: Gold Seal –, Liner –, Clipped Column ✓, Ferrule –

Comments STD ID: level 3: SW02 1101B, level 4: SW0211 12C, level 5: SW02 1112B, level 6: SW0211 12A, level 1: SW02 112E, level 2 SW0211 12D

Reviewed by SBL 11/25/02

Logbook ID 70.0192-1/02 | Logbook Page 000 82

Mitkem Corporation SVOA GC/MS Logbook Instrument S3

Date 11/19/02 | Tune Time Begin 10:25 | Tune Time End 22:50 21:50 | EMV 1718 | Initial Calibration Date 11/12/02 (8270) | TF PCP | % BKD DDT | Analyst GL/GL | Benzidine

File ID		Lab ID		Client ID		Method	Dilution	Comments		IS	Surr.
S3C03	44	ST1119A		DFTPP3S		DFTPP	—	ok (start blk seq)	10:25		
	45	SS1119A		SSTD050S		BNA					
	46	MB-4337		SBLK3M				OK		✓	✓
	47	LCS-4332		S3MLCS				OK		✓	✓
	48	LCSD-4332		S3MLCSD				OK		✓	✓
	49	A1627-	03C	A0C2BB1				ok (clean)		✓	✓
	50	05W0211 19A		surrogate				OK		Fail	
	51	05W0211 19B		MS				OK			
	52	A1627-	037C	A0C2BB3				ok (clean)		✓	✓
	53	A1627-	31C	13SSTB3124				OK		✓	✓
	54	MB-4345		SBLK3N				OK		✓	✓
	55	LCS-4345		S3NLCS				OK		✓	✓
	56	A1636	01A	A1SP1				ok (clean)		✓	✓
	57		02A	A1SP2				ok (clean)		✓	✓
	58		03A	A1SP3				ok (clean)		✓	✓
	59		03AMS	A1SP3	MS			Aniline ↓ OK		✓	✓
	60		03AMSD	A1SP3	MSD			Aniline ↓ OK		✓	✓
	61	A1636	04A	A1SP4				ok (clean)		✓	✓
S3C03	62	CCV		—		BNA	—	*	21:50		

Daily Maintenance: Gold Seal –, Liner ✓, Clipped Column ✓, Ferrule –

Comments * Aniline, 4-chloroaniline, 3-nitroaniline, 2,4-Dinitrophenol, 3,3'-Dichlorobenzidine, Benzidine <35

Reviewed by SBL 11/25/02

Logbook ID 70.0192-1/02 | Logbook Page 000 89

Mitkem Corporation SVOA GC/MS Logbook Instrument S3

Date 11/13/02 | Tune Time Begin 11:25 am | Tune Time End | EMV 1718 | Initial Calibration Date 11/12/02 (8270) | TF PCP | % BKD DDT | Analyst GL | Benzidine

File ID		Lab ID		Client ID		Method	Dilution	Comments		IS	Surr.
S3C02	56	ST1113A		DFTPP3M		DFTPP	—	OK	11:25		
	57	SS1113A		SSTD0503M		BNA		ok for 8270C			
	58	MB-4250		SBLK3P				re-run needed		OK	1' ↓
	59	LCS-4250		S3PLCS				1' ↓			OK
	60	LCSD-4250		S3PLCSD				1' ↓			OK
	61	MB-4379		SBLK3X				✓			
	62	LCS-4379		S3XLCS				✓			
	63	MB-4250		SBLK3P				✓			
	64	LCSD-4379		S3XLCSD				✓			
	65	A1627-	07D	A0C11QE1				✓			
	66	↓	13D	A0C2E3				✓			
	67		25D	A0C13E2				✓			
	68	A1627-	51D	A0C2E4				✓			
	69	A1635-	10A	FIELD BLANK				✓			OK
	70	A1604-	01B	SL-IN-1105				12-DCB=325, 4th need			3' out
	71	A1604-	02A	SL-EF-1105		BNA	—	Isophs=129	9:37 pm	OK	2' ↓
S3C02	72	CCV									

NA

GL 11/14/02

Daily Maintenance: Gold Seal –, Liner –, Clipped Column ✓, Ferrule –

Comments STD ID SW0211 01B

Reviewed by SBL 11/25/02

Logbook ID 70.0192-1/02 | Logbook Page 000 84

MITKEM CORPORATION: Sample Receipt Tracking Logbook

Project	Date Received	Client	Storage Location	#'s/ Analyst/ Date In	#'s/ Analyst/ Date Out	#'s/ Analyst/ Date In	#'s/ Analyst/ Date Out	#'s/ Analyst/ Date In	#'s/ Analyst/ Date Out	#'s/ Analyst/ Date In	Dispose After	Date Disposed
A1626	11-8-02	LOUIS BERGER	H2	01-29	K89LA 11/11	29LL 11/11					1-8-03	
A1627	11-8-02	HRP	VOA 02,03,06,07,13,25,29,30,31,-51 SUB - RIA1 02,03,29,30,31 MS 07,13,25,51 IH 01-05,07-59 MI 36.37 EH (MI) 36.37		9,47 H 11/14/02	9,47 11/14/02	9,25,51 88 11/13/02	Empty 88 11/13/02			2-8-03	
A1628	11-8-02	WATER MARK	VOA 01-02								1-8-03	
A1629	11-9-02	TETRA TECH 4 6MR MOD2	VOA 01-03 IH 02-07 0/0								2-9-03	
A1630	11-9-02	TETRA TECH CT&E 7-DAY	VOA 01-08								2-9-03	

Logbook ID 30.0187-1/02 Reviewed By: [illegible] Logbook page 78

Date 11/21/02 Tune Time Begin 10:57 EMV 1718 Tune Time End Initial Calibration Date 11/21/02 827a % BKD DDT Analyst GC Benzidine

File ID		Lab ID		Client ID	Method	Dilution	Comments	IS	Surr.
53C 03	74	ST1121A		DFTPP 34	DFTPP		OK		
	75	SS1121A		SSTD050304	BNA		OK full list	OK	OK
	76	MB-4285		SBLK3P			full list	OK	OK
	77	LCS-4285		S3PLCS			all ok	OK	OK
	78	LCSD-4285		S3PLCSD			all OK	OK	OK
	79	MB-4444		S3BLK3G			OK	OK	OK
	80	LCS-4444		S3BLCS				OK	OK
	81	A1677-	41A	B-1(8-12)				OK	OK
	82		02A	B-2(11-14)				OK	OK
	83		03A	B-3(11-13.5)				OK	OK
	84		04A	B-4(11-13)				OK	OK
	85		05A	B-5(9-11)				OK	OK
	86		06A	B-6(4-6)				OK	OK
	87		07A	B-7(4-8)				OK	OK
	88		08A	B-8(4-8)				OK	OK
	89		09A	B-9(12-16)				OK	OK
	90		10A	B-10(11-14)				OK	OK
	91		11A	B-11(10-13)				OK	OK
53C 03	92	A1677-	12A	B-12(8-11)	BNA		10:43	OK	OK

Daily Maintenance	
Gold Seal	
Liner	
Clipped Column	
Ferrule	

Comments

Logbook ID 70.0192-1/02 Reviewed by SBL 11/25/02 Logbook Page 000 91

MITKEM CORPORATION

* PCB Organics *

Date 11/25/02 Tune Time Begin 10:17 EMV 1857 Tune Time End 19:31 Initial Calibration Date 11/12/02 (8C20) TF PCP % BKD DDT Analyst Benzidine

File ID		Lab ID		Client ID	Method	Dilution	Comments	IS	Surr.
53C04	40	ST1125A		DFTPP3X	DFTPP	—	OK Run 11/26/02	10:17	
	41	SS1125A		SSTD05033	BNA		OK (8275) per G.L.		
	42	SS1125B		BENZIDINE 2nd/d				✓	✓
	43	MB-4395		SBLK3E				✓	✓
	44	LCS-4395		S37LCS			OK	✓	✓
	45	LCSD-4395		S37LCSD			OK	✓	✓
	46	A1728-	01E	MW-2			OK	✓	✓
	47	A1728	02E	MW-3			OK	✓	✓
	48	A1728	03E	MW-13			OK	✓	✓
	49	A1693-	01A	TRIP BLK		40	OK Mip-143	✓	DL ✓
	50	MB-4489		SBLK3Y			OK	✓	✓
	51	LCS-4489		S3YLCS			OK	✓	✓
	52	LCSD-4489		S3YLCSD			OK	✓	✓
	53	MB-4368		SBLK3T			OK	✓	✓
53C04	54	LCS-4368		S3TLCS	BNA	—	OK 19:51	✓	✓

GC 11/26/02

Daily Maintenance	
Gold Seal	✓
Liner	—
Clipped Column	✓
Ferrule	—

Comments

Logbook ID 70.0192-1/02 Reviewed by Logbook Page 000 97

FORM 2
WATER PCB SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

GC Column(1): DB-1701 ID: 0.53 (mm) GC Column(2): DB-608 ID: 0.53 (mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	BBLK3J	84	79	85	84			0
02	B3JLCS	87	84	88	87			0
03	B3JLCSD	87	85	98	97			0
04	BBLK3K	77	75	69	69			0
05	B3KLCS	81	80	75	75			0
06	B3KLCSD	69	67	64	64			0
07	AOC112E1	79	79	73	71			0
08	AOC2E3	83	81	80	79			0
09	AOC13E2	79	77	71	70			0
10	AOC2E4	67	64	75	75			0
11	AOC2BB1	58	54	63	62			0
12	AOC2BB2	71	67	49	49			0
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS
S1 (TCX) = Tetrachloro-m-xylene (29-158)
S2 (DCB) = Decachlorobiphenyl (30-164)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 2
SOIL PCB SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

GC Column(1): RTXCLPPEST 2 ID: 0.53 (mm) GC Column(2): RTXCLPPEST ID: 0.53 (mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	BBLK1A	101	90	79	81			0
02	B1ALCS	104	97	83	88			0
03	BBLK1Z	115	103	94	110			0
04	B1ZLCS	123	115	98	118			0
05	12TB1524	87	79	74	92			0
06	13SSTB3435	67	59	58	70			0
07	13SSTB2413	85	75	77	92			0
08	13SSTB3124	105	96	83	104			0
09	2SSTB4724	106	95	86	107			0
10	2SSTB4802	59	51	51	61			0
11	2SSTB4246	147*	140	108	134			1
12	2SSD4A46	96	87	78	96			0
13	2SSD4B46	116	105	91	113			0
14	*2SSTB4302*	*129*	*120*	*94*	*119*			0
15	2SSTB4402	104	96	76	92			0
16	2SSTB4524	112	109	90	122			0
17	2SSTB4602	88	80	78	101			0
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS
S1 (TCX) = Tetrachloro-m-xylene (42-147)
S2 (DCB) = Decachlorobiphenyl (29-155)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 3
WATER PCB LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: B3JLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Aroclor-1016	2.5		2.2	88	45-162
Aroclor-1260	2.5		2.2	88	54-159

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	2.5	2.5	100	13	40	45-162
Aroclor-1260	2.5	2.5	100	13	40	54-159

 # Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM 3
WATER PCB LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: B3KLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Aroclor-1016	10		8.4	84	45-162
Aroclor-1260	10		7.8	78	54-159

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	10	7.2	72	15	40	45-162
Aroclor-1260	10	6.7	67	15	40	54-159

 # Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM 3
SOIL PCB LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: B1ALCS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aroclor-1016	330		340	103	62-155
Aroclor-1260	330		330	100	56-173

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III PCB

000647

FORM 3
SOIL PCB LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: B1ZLCS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aroclor-1016	330		410	124	62-155
Aroclor-1260	330		410	124	56-173

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM III PCB

000648

FORM 4
PCB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.: BBLK1A

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab Sample ID: MB-4149 Lab File ID: E1D7921F

Matrix (soil/water) SOIL Extraction: (SepF/Cont/Sonc) SONC

Sulfur Cleanup (Y/N) Y Date Extracted: 11/11/02

Date Analyzed (1): 11/20/02 Date Analyzed (2): 11/20/02

Time Analyzed (1): 1025 Time Analyzed (2): 1025

Instrument ID (1): E1 Instrument ID (2): E1

GC Column (1): RTXCLPPEST 2 ID: 0.53(mm) GC Column (2): RTXCLPPEST ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	B1ALCS	LCS-4149	11/20/02	11/20/02
02	12TB1524	A1627-02C	11/22/02	11/22/02
03	13SSTB3435	A1627-29C	11/22/02	11/22/02
04	13SSTB2413	A1627-30C	11/22/02	11/22/02
05	13SSTB3124	A1627-31C	11/22/02	11/22/02
06	2SSTB4724	A1627-42A	11/22/02	11/22/02
07	2SSTB4802	A1627-43A	11/22/02	11/22/02
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

FORM IV PCB

000649

FORM 4
PCB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.: BBLK1Z

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab Sample ID: MB-4254 Lab File ID: E1D8004F

Matrix (soil/water) SOIL Extraction: (SepF/Cont/Sonc) PFE

Sulfur Cleanup (Y/N) Y Date Extracted: 11/13/02

Date Analyzed (1): 11/22/02 Date Analyzed (2): 11/22/02

Time Analyzed (1): 1607 Time Analyzed (2): 1607

Instrument ID (1): E1 Instrument ID (2): E1

GC Column (1): RTXCLPPEST 2 ID: 0.53(mm) GC Column (2): RTXCLPPEST ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	B1ZLCS	LCS-4254	11/22/02	11/22/02
02	2SSTB4246	A1627-50A	11/23/02	11/23/02
03	2SSD4A46	A1627-54A	11/23/02	11/23/02
04	2SSD4M46	A1627-55A	11/23/02	11/23/02
05	2SSTB4302	A1627-56A	11/23/02	11/23/02
06	2SSTB4402	A1627-57A	11/23/02	11/23/02
07	2SSTB4524	A1627-58A	11/23/02	11/23/02
08	2SSTB4602	A1627-59A	11/23/02	11/23/02
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

FORM IV PCB

000650

FORM 4
PCB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.
BBLK3K

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
LAb Sample ID: MB-4280 Lab File ID: E3D8197F
Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc) SEPF
Sulfur Cleanup (Y/N) Y Date Extracted: 11/11/02
Date Analyzed (1): 11/23/02 Date Analyzed (2): 11/23/02
Time Analyzed (1): 0911 Time Analyzed (2): 0911
Instrument ID (1): E3 Instrument ID (2): E3
GC Column (1): DB-1701 ID: 0.53(mm) GC Column (2): DB-608 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	B3KLCS	LCS-4280	11/23/02	11/23/02
02	B3KLCSD	LCSD-4280	11/23/02	11/23/02
03	AOC112E1	A1627-07D	11/23/02	11/23/02
04	AOC2E3	A1627-13D	11/23/02	11/23/02
05	AOC13E2	A1627-25D	11/23/02	11/23/02
06	AOC2E4	A1627-51D	11/23/02	11/23/02
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

FORM IV PCB

FORM 4
PCB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.
BBLK3J

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Lab Sample ID: MB-4333 Lab File ID: E3D8194F
Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc) SEPF
Sulfur Cleanup (Y/N) Y Date Extracted: 11/13/02
Date Analyzed (1): 11/23/02 Date Analyzed (2): 11/23/02
Time Analyzed (1): 0716 Time Analyzed (2): 0716
Instrument ID (1): E3 Instrument ID (2): E3
GC Column (1): DB-1701 ID: 0.53(mm) GC Column (2): DB-608 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	B3JLCS	LCS-4333	11/23/02	11/23/02
02	B3JLCSD	LCSD-4333	11/23/02	11/23/02
03	AOC2BB1	A1627-36C	11/23/02	11/23/02
04	AOC2BB2	A1627-37C	11/23/02	11/23/02
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

FORM IV PCB

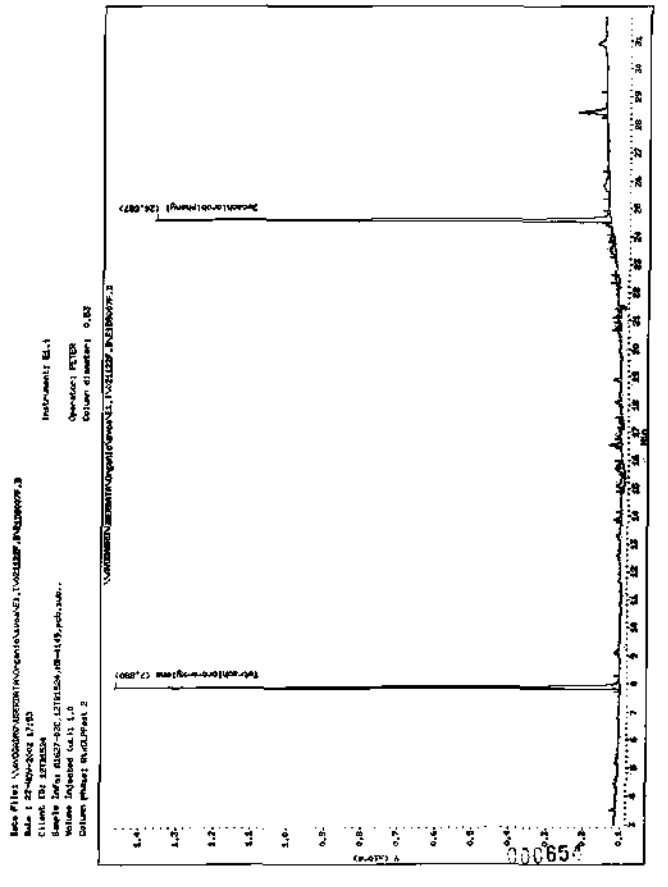
FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

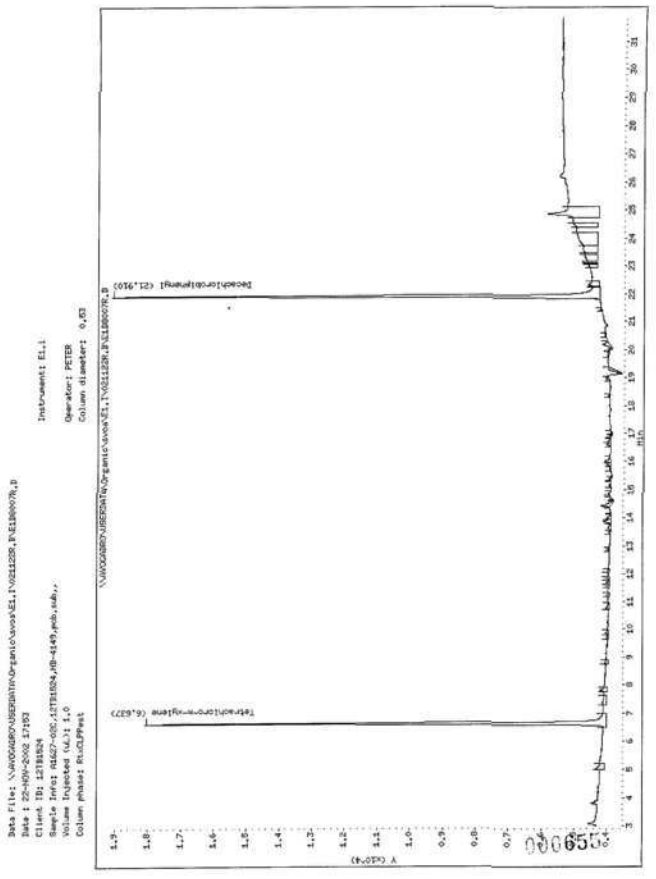
CLIENT SAMPLE NO.
12TB1524

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-02C
Sample wt/vol: 30.3 (g/mL) G Lab File ID: E1D8007F
% Moisture: 13 decanted: (Y/N) N Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/11/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

FORM I PCB





000655

Data File: E1D8007F.D
Report Date: 27-Nov-2002 14:51

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1D8007F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1D8007R.D
Inj Date : 22-NOV-2002 17:53
Sample Info: A1627-02C,12TB1524,MB-4149,pcb.sub,,
Misc Info : 0,,,2,,,,,,,11-NOV-02,08-NOV-02,A1627
Cal Date : 25-NOV-2002 16:36
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.300	Weight of sample extracted (g)
M	13.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Tetrachloro-m-xylene	7.860	6.637	13637	14075	13	13		100.00
Decachlorobiphenyl	24.587	21.910	10273	14853	11	14		100.00

11/27/02

000656

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

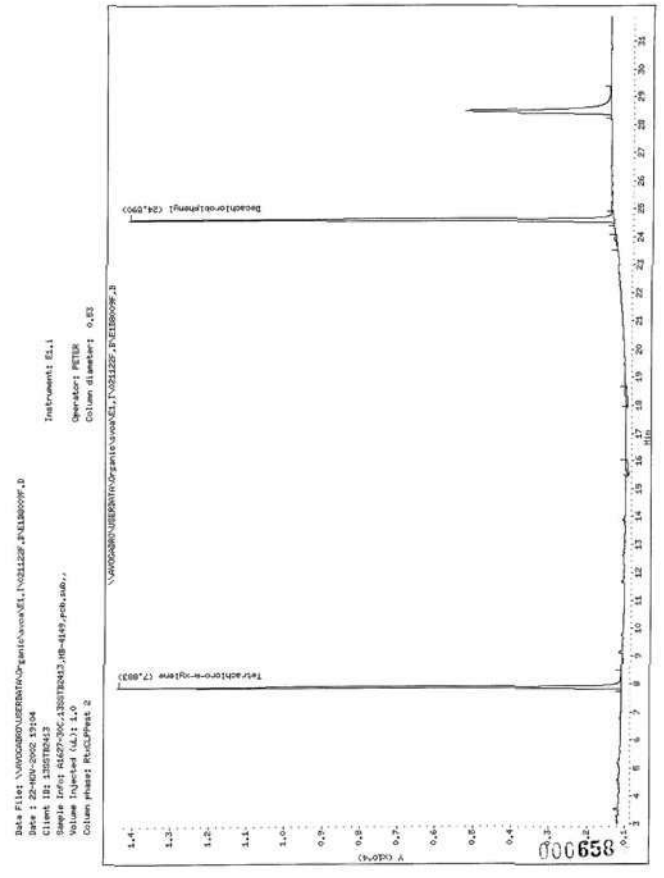
CLIENT SAMPLE NO.
13SSTB2413

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-30C
Sample wt/vol: 30.6 (g/mL) G Lab File ID: E1D8009F
% Moisture: 15 decanted: (Y/N) N Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/11/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

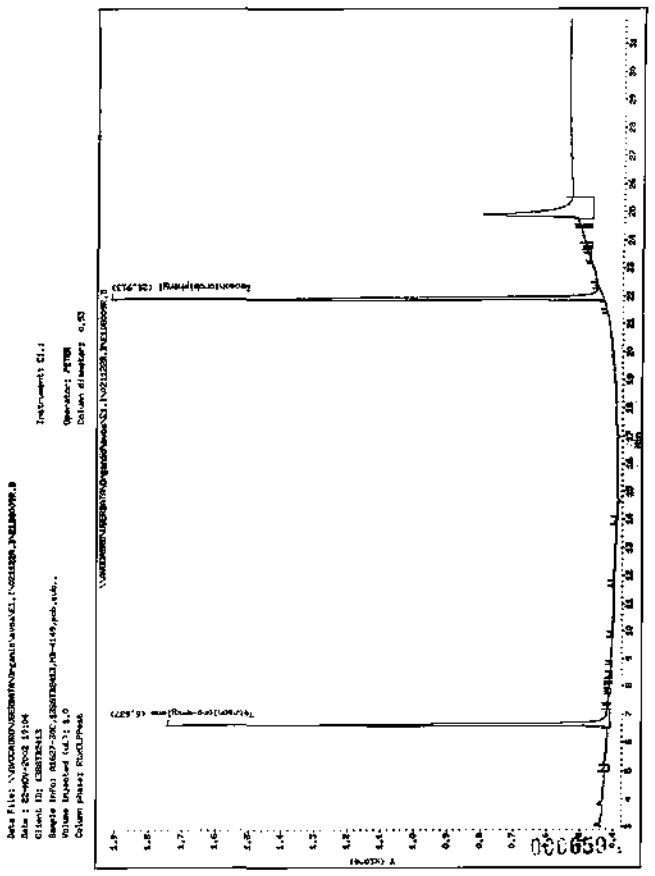
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

FORM I PCB

000657



000658



Data File: E1D8009F.D
Report Date: 27-Nov-2002 14:51

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1D8009F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1D8009R.D
Inj Date : 22-NOV-2002 19:04
Sample Info: A1627-30C,13SSTB2413,MB-4149,pcb.sub,,
Misc Info : 0,,,2,,,,,,,,11-NOV-02,08-NOV-02,A1627
Cal Date : 25-NOV-2002 16:36
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.600	Weight of sample extracted (g)
M	15.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Tetrachloro-m-xylene	7.883	6.637	13305	13358	13	11		100.00
Decachlorobiphenyl	30.380	31.213	12812	14824	13	14		100.00

KC

SE 11/27/02

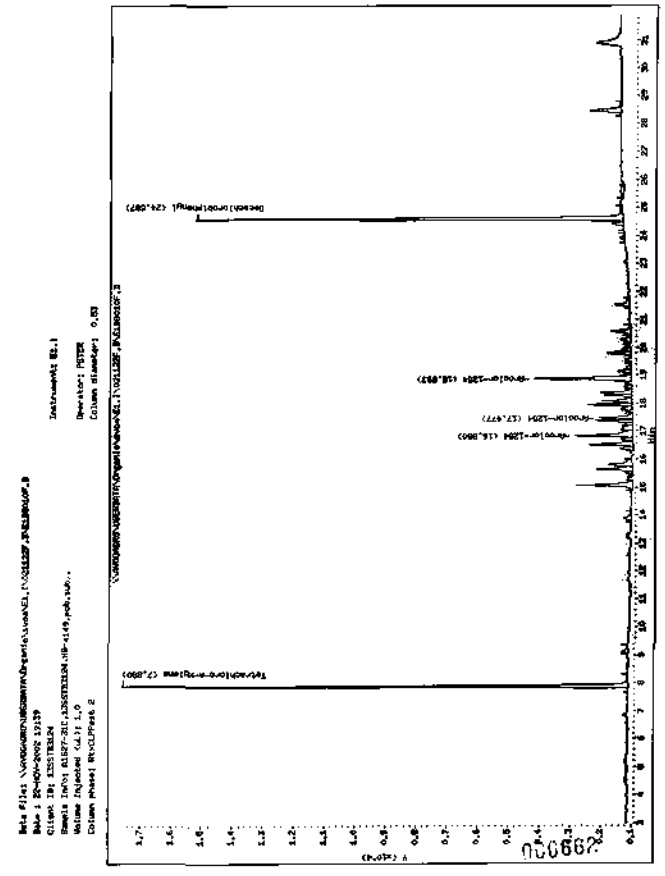
FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

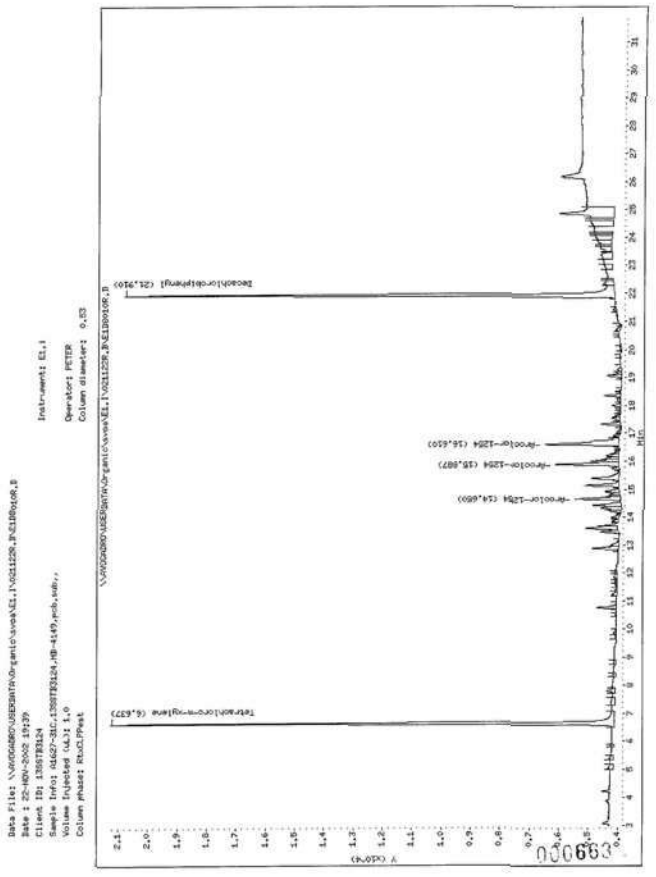
CLIENT SAMPLE NO.
13SSTB3124

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-31C
Sample wt/vol: 30.9 (g/mL) G Lab File ID: E1D8010F
% Moisture: 6 decanted: (Y/N) N Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/11/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	34	U
11104-28-2	Aroclor-1221	34	U
11141-16-5	Aroclor-1232	34	U
53469-21-9	Aroclor-1242	34	U
12672-29-6	Aroclor-1248	34	U
11097-69-1	Aroclor-1254	43	P
11096-82-5	Aroclor-1260	34	U

FORM I PCB





Data File: E1D8010F.D
Report Date: 27-Nov-2002 14:51

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1D8010F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1D8010R.D
Inj Date : 22-NOV-2002 19:39
Sample Info: A1627-31C,13SSTB3124,MB-4149,pcb.sub,,
Misc Info : 0,,,2,,,,,,,,11-NOV-02,08-NOV-02,A1627
Cal Date : 25-NOV-2002 16:36
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.900	Weight of sample extracted (g)
M	6.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Tetrachloro-m-xylene	7.880	6.637	16465	17166	14	13		100.00
Decachlorobiphenyl	24.587	21.910	13902	16667	11	14		100.00
Aroclor-1254	16.650	14.650	1875	1539	32	76	80.00- 120.00	100.00
	17.477	15.887	1088	2173	29	72	44.63- 94.63	58.03
	18.895	16.610	3145	2507	67	95	61.55- 101.55	169.80
			Average of Peak Amounts =		43	81		

SZ 11/27/02

000664

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

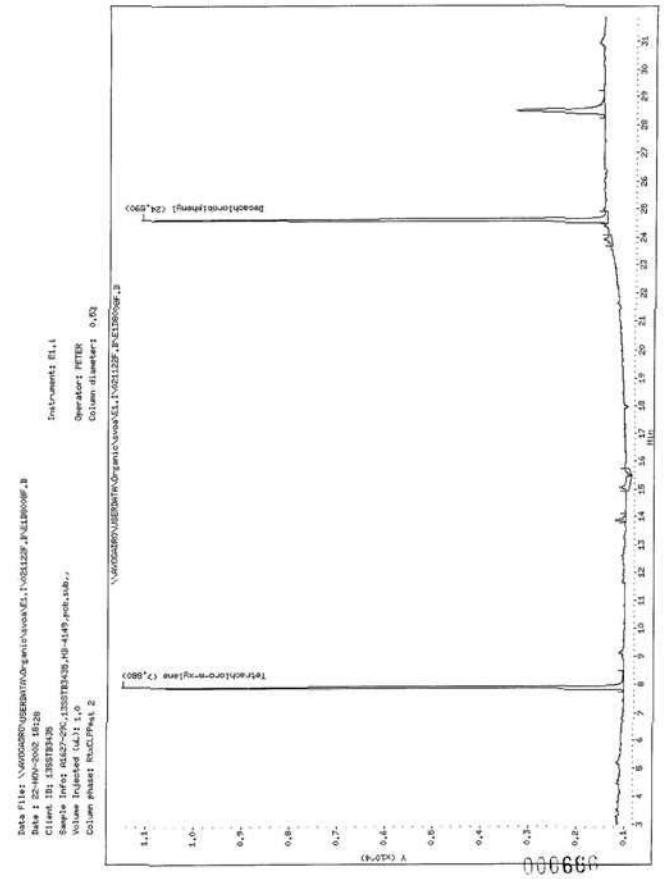
CLIENT SAMPLE NO.
13SSTB3435

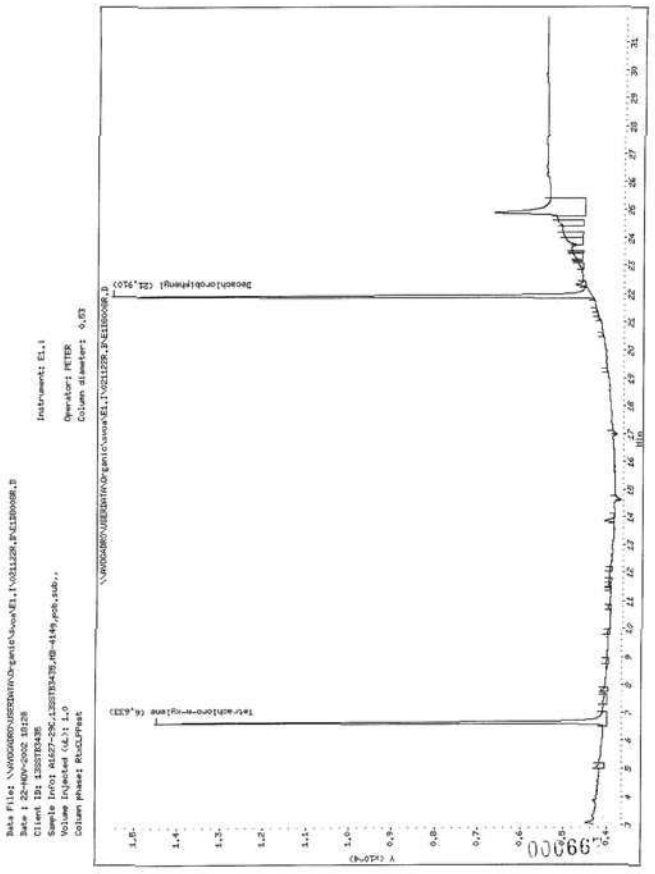
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-29C
Sample wt/vol: 30.7 (g/mL) G Lab File ID: E1D8008F
% Moisture: 16 decanted: (Y/N) N Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/11/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

FORM I PCB

000665





000667

Data File: E1D8008F.D
Report Date: 27-Nov-2002 14:51

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1D8008F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1D8008R.D
Inj Date : 22-NOV-2002 18:28
Sample Info: A1627-29C,13SSTB3435,MB-4149,pcb.sub,,
Misc Info : 0,,,2,,,,,,,11-NOV-02,08-NOV-02,A1627
Cal Date : 25-NOV-2002 16:36
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.700	Weight of sample extracted (g)
M	16.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#3	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Ranqe	Ratio
Tetrachloro-m-xylene	7.880	6.633	10494	10506	10	9.1		100.00
Decachlorobiphenyl	24.590	21.910	9750	11172	9.1	11		100.00

11/27/02

000668

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

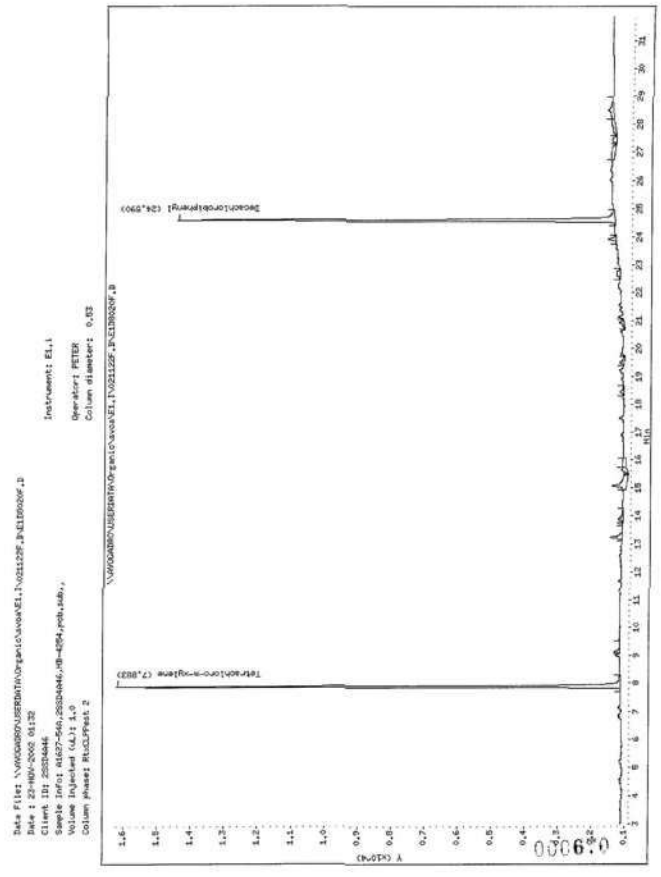
CLIENT SAMPLE NO.
2SSD4A46

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL *Lab Sample ID: A1627-54A*
Sample wt/vol: 15.0 (g/mL) G Lab File ID: E1D8020F
% Moisture: 15 decanted: (Y/N) N Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) PFE Date Extracted:11/13/02
Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

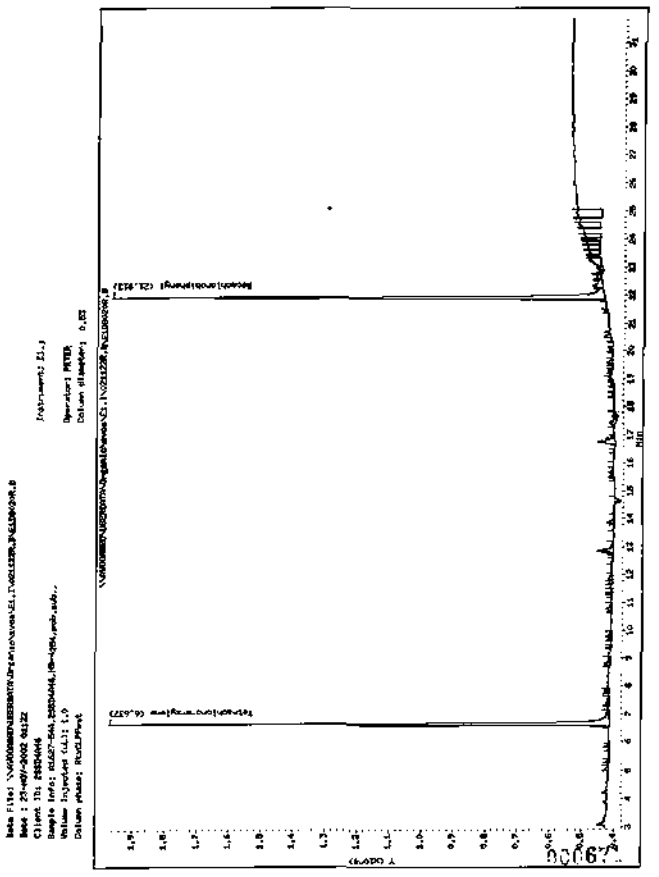
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	39	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	39	U

FORM I PCB

000669



000670



Data File: E1D8020F.D
Report Date: 27-Nov-2002 15:03

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1D8020F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1D8020R.D
Inj Date : 23-NOV-2002 01:32
Sample Info: A1627-54A,2SSD4A46,MB-4254,pcb.sub,,
Misc Info : 0,,,2,,,,,,,,13-NOV-02,08-NOV-02,A1627
Cal Date : 25-NOV-2002 16:36
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	15.000	Weight of sample extracted (g)
M	15.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/kg)	Conc#2 (ug/kg)	Target Range	Ratio
Tetrachloro-m-xylene	7.883	6.637	19875	18861	15	15		105.38
Decachlorobiphenyl	34.680	31.919	15081	13527	12	25		105.50

SE 11/27/02

000672

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

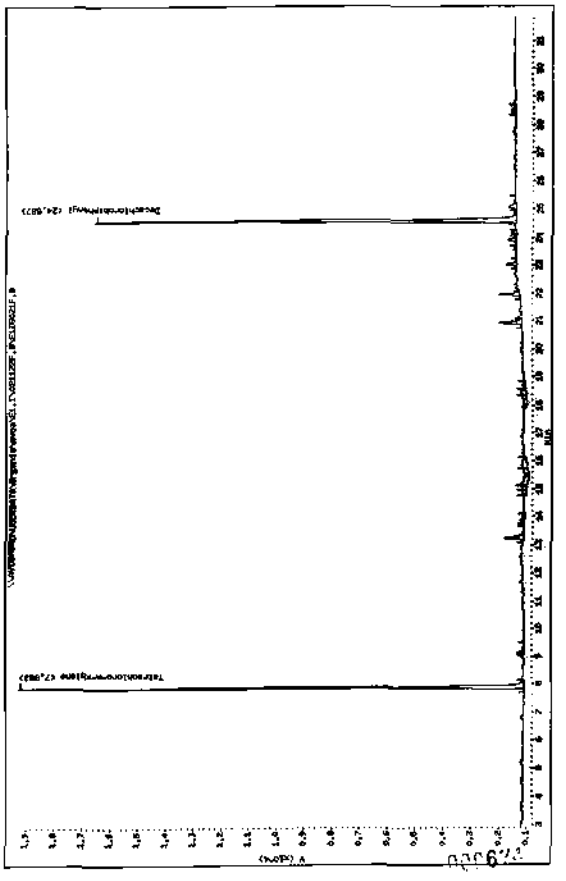
CLIENT SAMPLE NO.
2SSD4B46

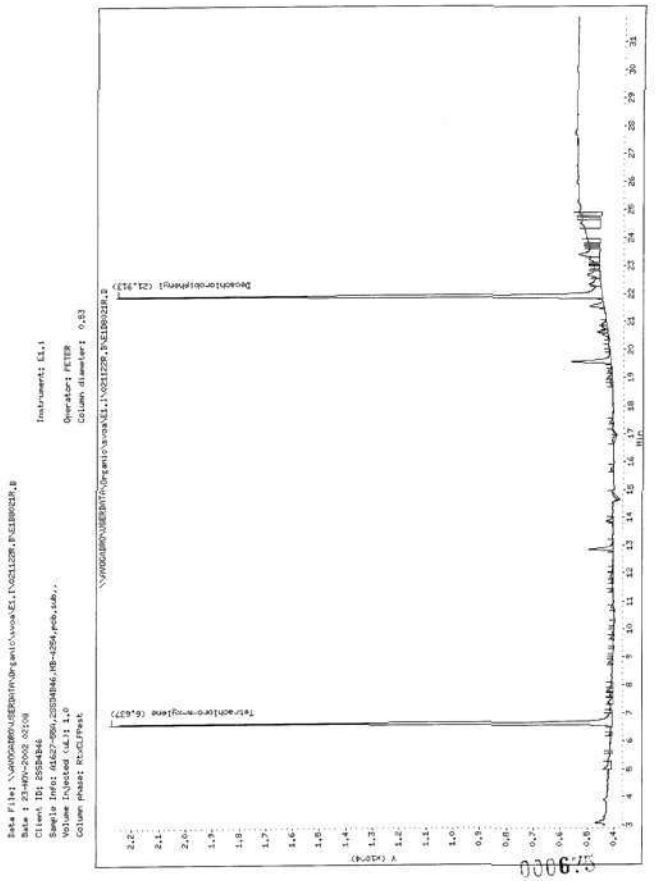
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-55A
Sample wt/vol: 15.1 (g/mL) G Lab File ID: E1D8021F
% Moisture: 12 decanted: (Y/N) N Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) PFE Date Extracted: 11/13/02
Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	38	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

FORM I PCB

000673





0006?5

Data File: E1D8021F.D
Report Date: 27-Nov-2002 15:03

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1D8021F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1D8021R.D
Inj Date : 23-NOV-2002 02:08
Sample Info: A1627-55A,2SSD4B46,MB-4254,pcb.sub,,
Misc Info : 0,,,2,,,,,,,13-NOV-02,08-NOV-02,A1627
Cal Date : 25-NOV-2002 16:36
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	15.100	Weight of sample extracted (g)
M	12.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Tetrachloro-m-xylene	7.883	6.637	19128	18750	17	16		100.00
Decachlorobiphenyl	24.587	21.913	15118	19113	16	17		100.00

KL

SZ 11/27/02

0006?6

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

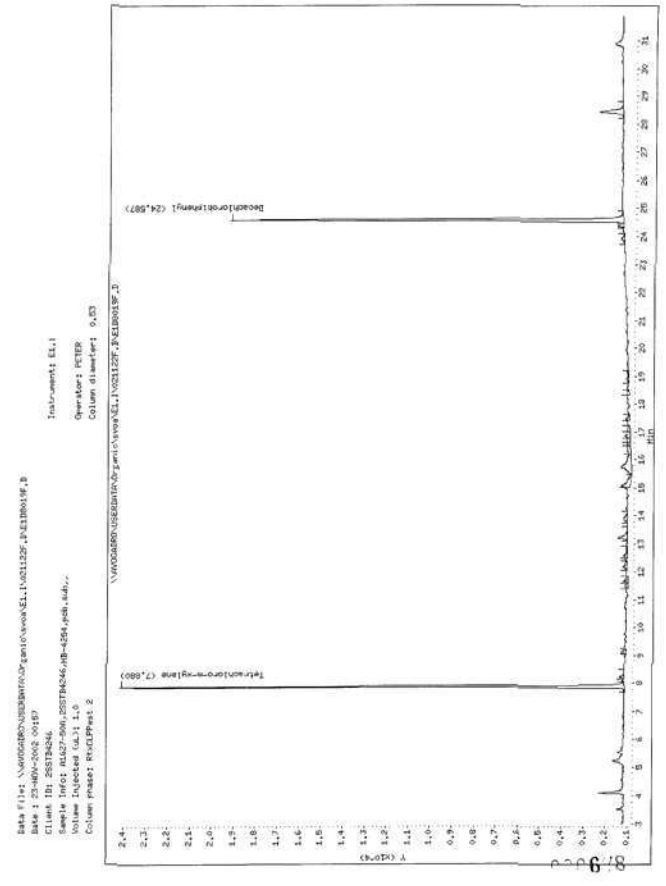
CLIENT SAMPLE NO.
2SSTB4246

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-50A
Sample wt/vol: 15.2 (g/mL) G Lab File ID: E1D8019F
% Moisture: 9 decanted: (Y/N) N Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) PFE Date Extracted: 11/13/02
Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

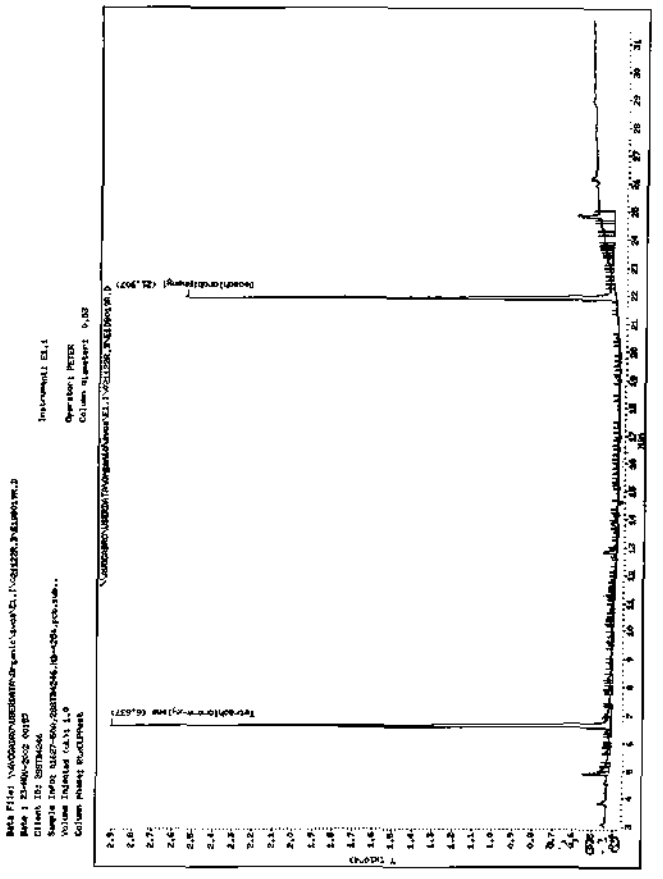
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	36	U
11104-28-2	Aroclor-1221	36	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	36	U
11096-82-5	Aroclor-1260	36	U

FORM I PCB

0006?7



0006?8



Data File: E1D8019F.D
Report Date: 27-Nov-2002 15:03

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1D8019F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1D8019R.D
Inj Date : 23-NOV-2002 00:57
Sample Info: A1627-50A,2SSTB4246,MB-4254,pcb.sub,,
Misc Info : 0,,,2,,,,,,,13-NOV-02,08-NOV-02,A1627
Cal Date : 25-NOV-2002 16:36
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	15.200	Weight of sample extracted (g)
M	9.000	% Moisture

Compound	RT#1	RT#2	Response1	Response2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Tetrachloro-m-xylene	7.990	6.657	23018	24555	21	20		106.08(H)
Decachlorobiphenyl	24.987	21.957	17296	21493	16	18		100.00

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

000680

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

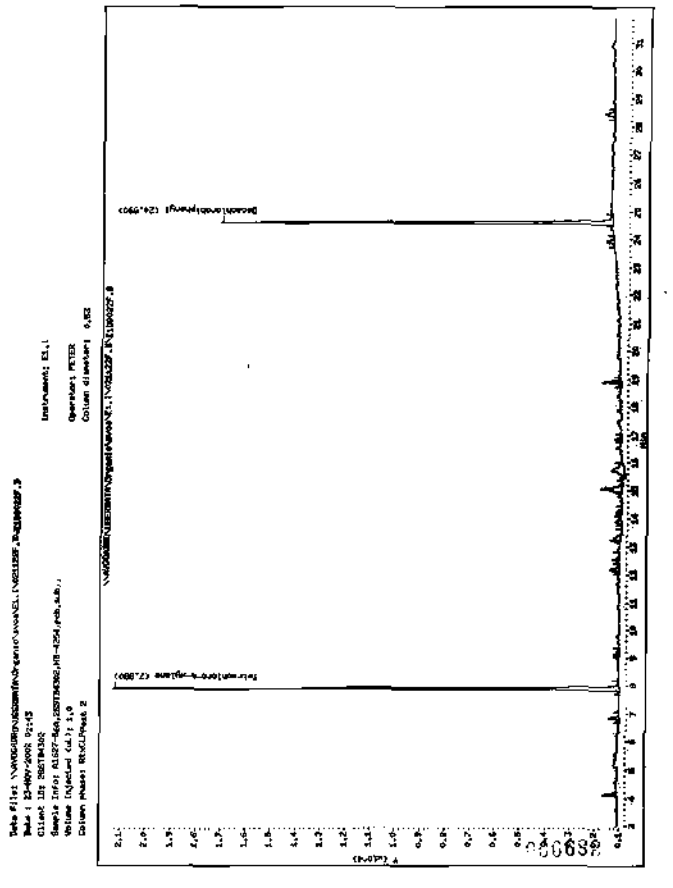
CLIENT SAMPLE NO.
2SSTB4302

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-56A
Sample wt/vol: 15.0 (g/mL) G Lab File ID: E1D8022F
% Moisture: 9 decanted: (Y/N) N Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) PFE Date Extracted: 11/13/02
Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

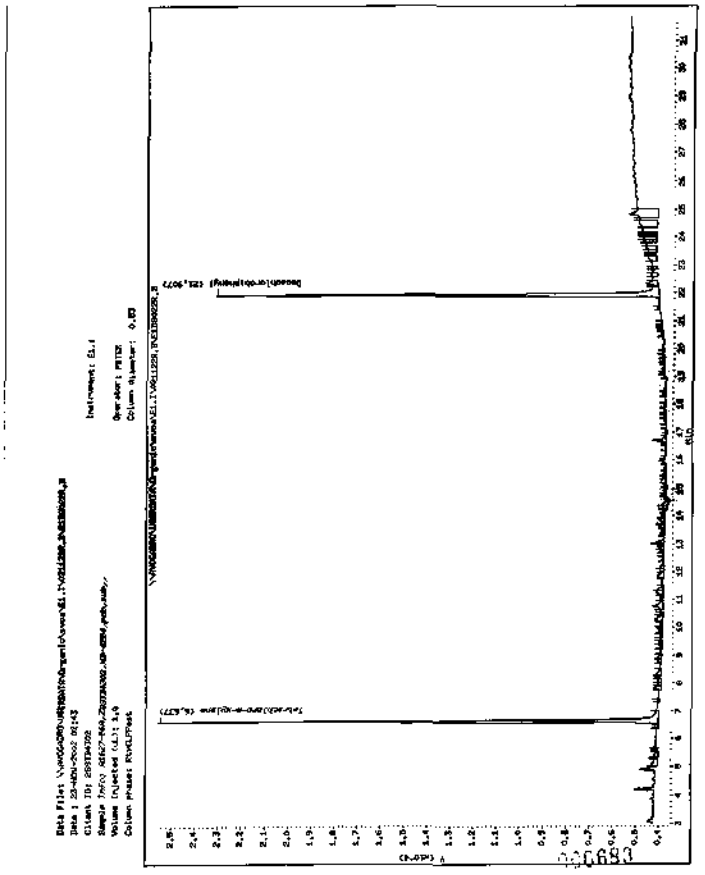
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U

FORM I PCB

000681



000682



Data File: B1D8022F.D
Report Date: 27-Nov-2002 15:03

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\B1.I\021122F.B\B1D8022F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\B1.I\021122R.B\B1D8022R.D
Inj Date : 23-NOV-2002 02:43
Sample Info: A1627-56A,2SSTB4302,MB-4254,pcb.sub,,
Misc Info : 0,,,2,,,,,,,13-NOV-02,08-NOV-02,A1627
Cal Date : 25-NOV-2002 16:36
Operator : PETER
Inst ID : B1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\B1.I\021122F.B\B1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\B1.I\021122R.B\B1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	5000.000	Volume of final extract (uL){1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	15.000	Weight of sample extracted (g)
M	9.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Tetrachloro-m-xylene	7.885	8.637	20336	21817	18	19		200.00
Decachlorobiphenyl	24.350	21.987	18695	19072	16	17		200.00

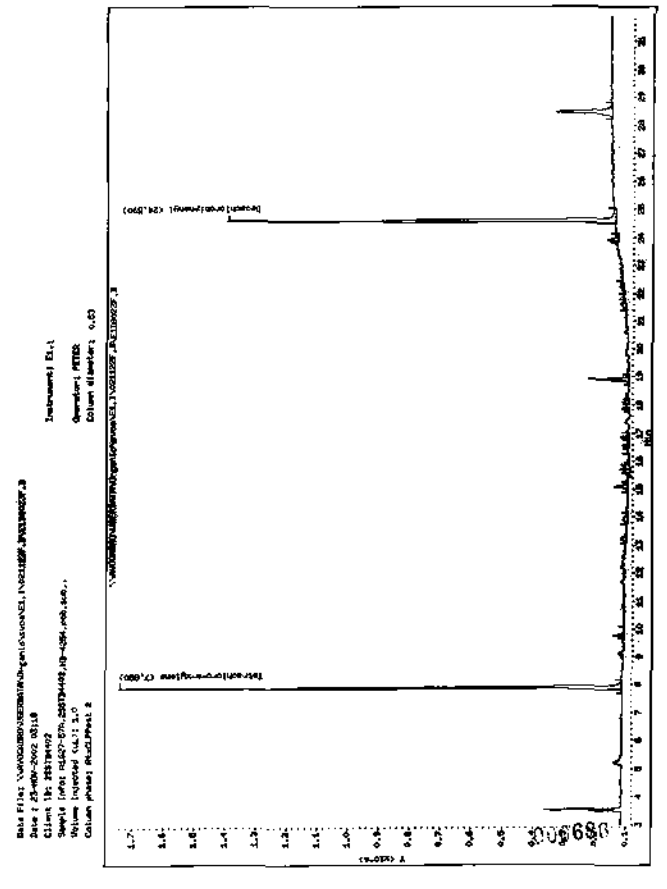
FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

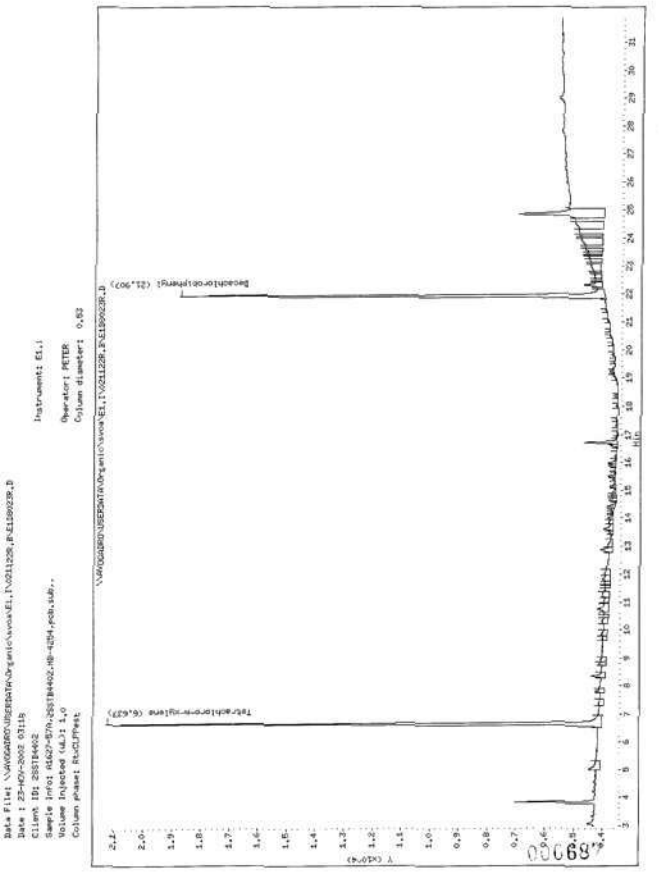
CLIENT SAMPLE NO.
2SSTB4402

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-57A
Sample wt/vol: 15.9 (g/mL) G Lab File ID: B1D8023F
% Moisture: 13 decanted: (Y/N) N Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) PFE Date Extracted: 11/13/02
Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	36	U
11104-28-2	Aroclor-1221	36	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	36	U
11096-82-5	Aroclor-1260	36	U

FORM I PCB





Data File: E1D8023F.D
Report Date: 27-Nov-2002 15:03

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1D8023F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1D8023R.D
Inj Date : 23-NOV-2002 03:18
Sample Info: A1627-57A,2SSTB4402,MB-4254,pcb.sub,,
Misc Info : 0,,,2,,,,,,,13-NOV-02,08-NOV-02,A1627
Cal Date : 25-NOV-2002 16:36
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	15.900	Weight of sample extracted (g)
M	13.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Tetrachloro-m-xylene	7.660	6.637	19310	17251	15	14		100.00
Decachlorobiphenyl	24.550	21.907	12624	14801	11	19		100.00

11/27/02

000698

FORM I
PCB ORGANICS ANALYSIS DATA SHEET

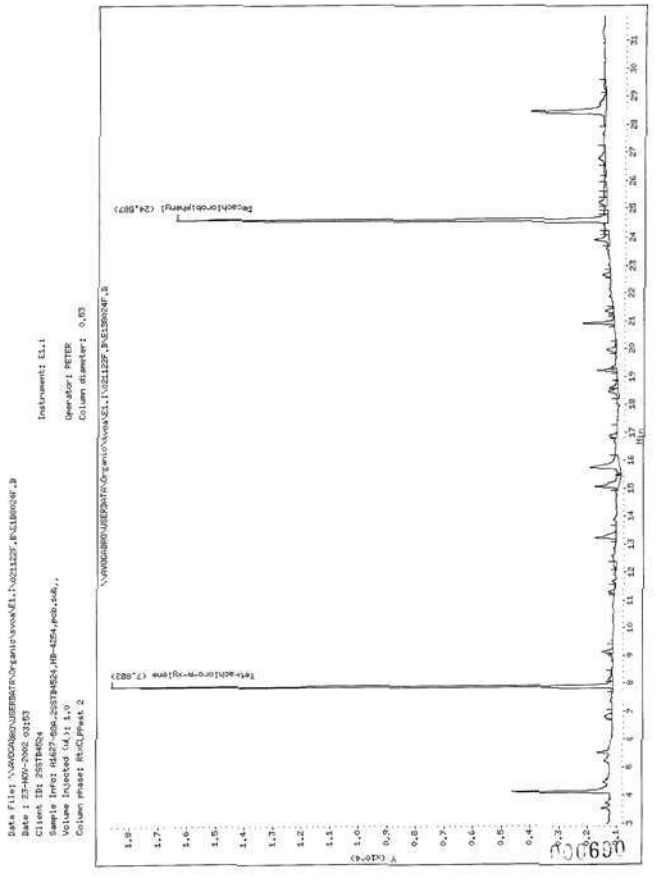
CLIENT SAMPLE NO.
2SSTB4524

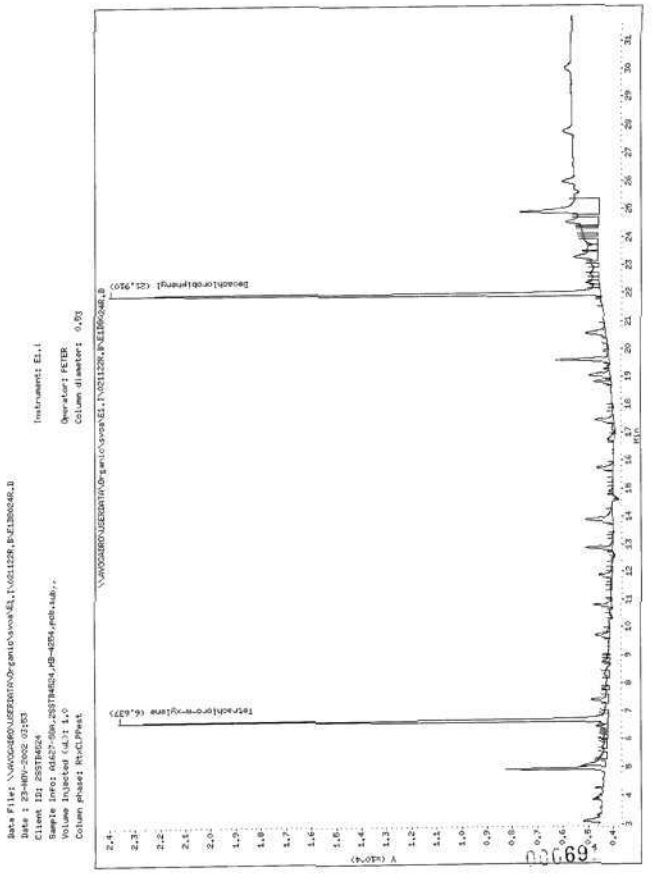
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-58A
Sample wt/vol: 15.0 (g/mL) G Lab File ID: E1D8024F
% Moisture: 9 decanted: (Y/N) N Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) PFE Date Extracted: 11/13/02
Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U

FORM I PCB

000699





000691

Data File: E1D8024F.D
Report Date: 27-Nov-2002 15:03

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1D8024F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1D8024R.D
Inj Date : 23-NOV-2002 03:53
Sample Info: A1627-58A,2SSTB4524,MB-4254,pcb.sub,,
Misc Info : 0,,,2,,,,,,,,13-NOV-02,08-NOV-02,A1627
Cal Date : 25-NOV-2002 16:36
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	15.000	Weight of sample extracted (g)
M	9.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Tetrachloro-m-xylene	7.863	6.637	17524	19470	16	16		100.00
Decachlorobiphenyl	24.587	21.910	15093	19528	13	18		100.00

SZ 11/27/02

000692

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

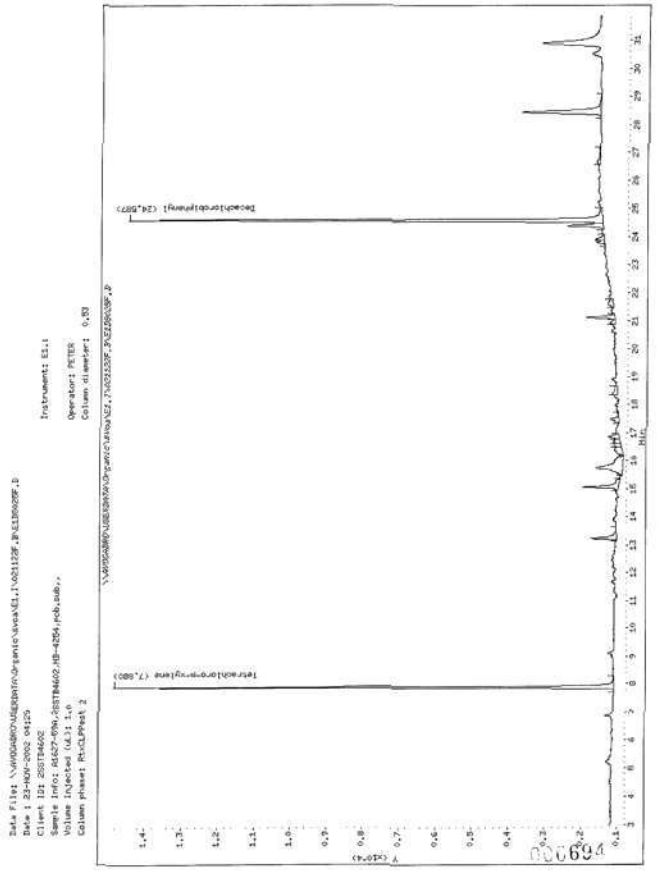
CLIENT SAMPLE NO.
2SSTB4602

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-59A
Sample wt/vol: 15.8 (g/mL) G Lab File ID: E1D8025F
% Moisture: 15 decanted: (Y/N) N Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) PFE Date Extracted:11/13/02
Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

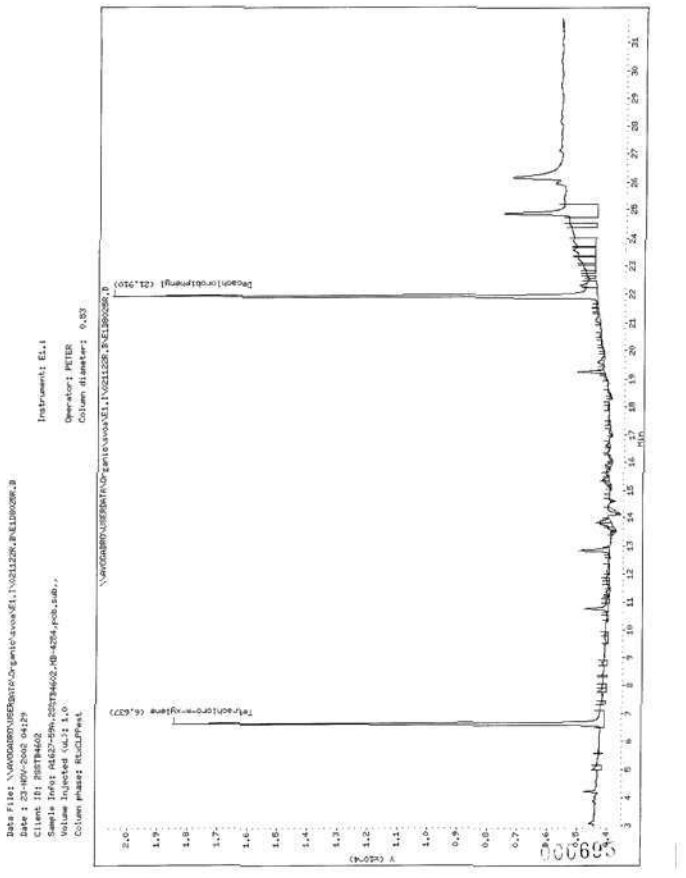
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U

FORM I PCB

000693



000694



Data File: E1D8025F.D
Report Date: 27-Nov-2002 15:04

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1D8025F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1D8025R.D
Inj Date : 23-NOV-2002 04:29
Sample Info: A1627-59A,2SSTB4602,MB-4254,pcb.sub,,
Misc Info : 0,,,2,,,,,,,13-NOV-02,08-NOV-02,A1627
Cal Date : 25-NOV-2002 16:36
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	15.800	Weight of sample extracted (g)
M	15.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Tetrachloro-m-Xylene	7.895	6.637	13743	14399	13	12		100.00
Decachlorobiphenyl	24.587	21.910	13009	16140	12	15		100.00

SZ 11/27/02

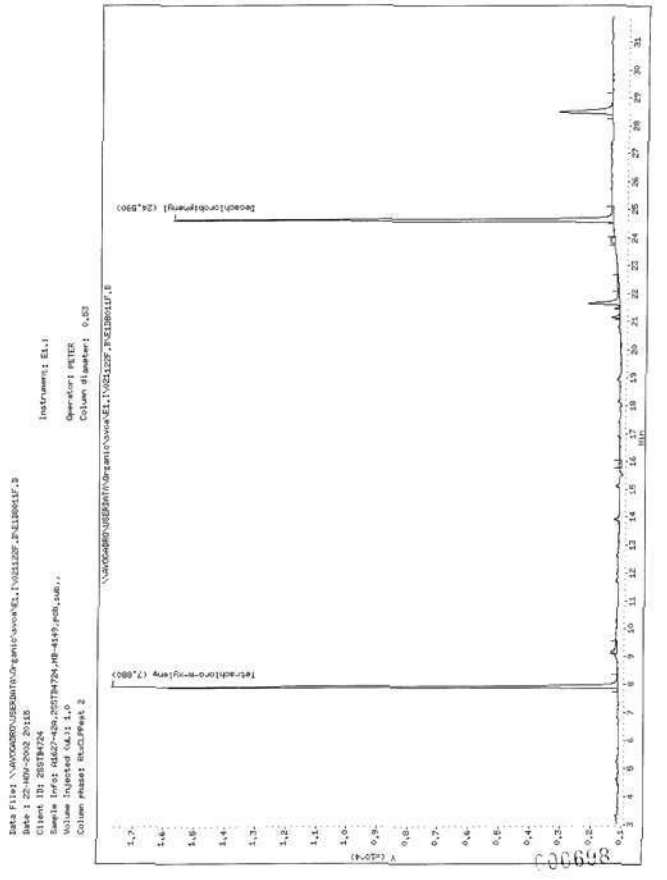
FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

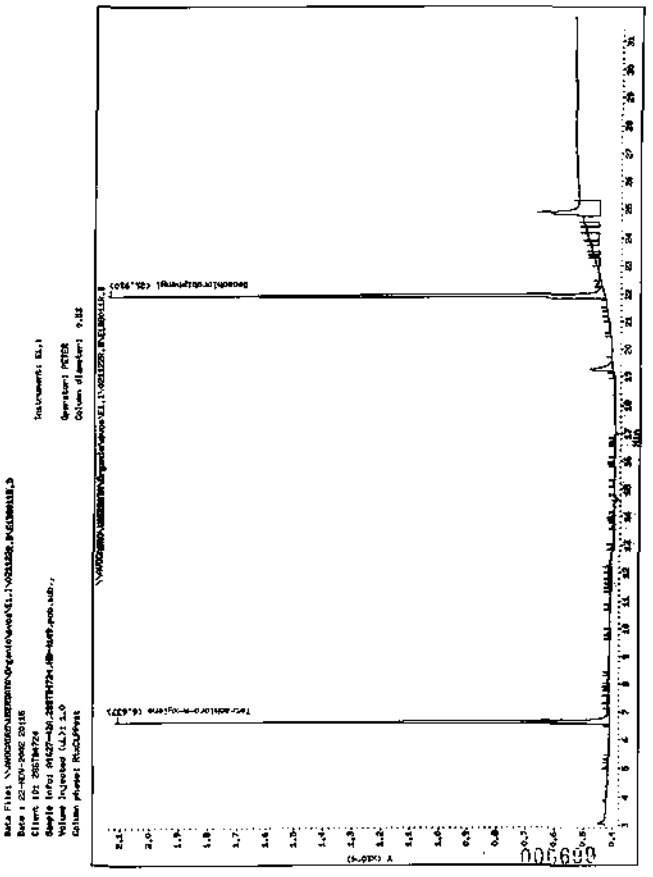
CLIENT SAMPLE NO.
2SSTB4724

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-42A
Sample wt/vol: 30.4 (g/mL) G Lab File ID: E1D8011F
% Moisture: 7 decanted: (Y/N) N Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/11/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	35	U
11104-28-2	Aroclor-1221	35	U
11141-16-5	Aroclor-1232	35	U
53469-21-9	Aroclor-1242	35	U
12672-29-6	Aroclor-1248	35	U
11097-69-1	Aroclor-1254	35	U
11096-82-5	Aroclor-1260	35	U

FORM I PCB





000699

Data File: E1D8011F.D
Report Date: 27-Nov-2002 14:51

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1D8011F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1D8011R.D
Inj Date : 22-NOV-2002 20:15
Sample Info: A1627-42A,2SSTB4724,MB-4149,pcb.sub,,
Misc Info : 0,,,2,,,,,,,11-NOV-02,06-NOV-02,A1627
Cal Date : 25-NOV-2002 16:36
Operator : PETER
Inst ID : E1.I
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.400	Weight of sample extracted (g)
M	7.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Ratio	Ratio
Tetrachloro-m-xylene	7.880	8.457	16999	17650	13	13	100.00	
Decachlorobiphenyl	31.595	31.910	16419	17196	12	13	100.00	

000700

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

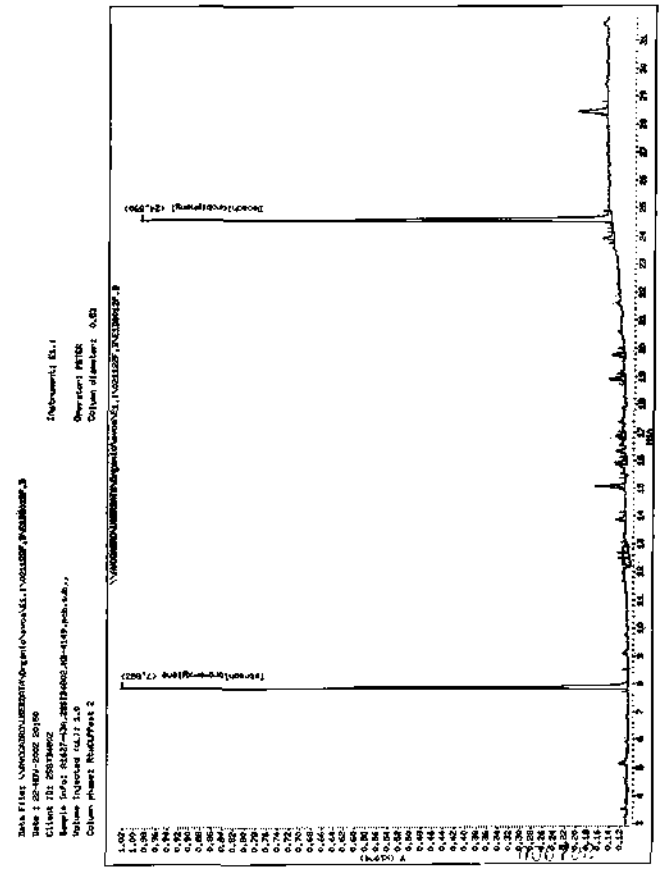
CLIENT SAMPLE NO.
2SSTB4802

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: A1627-43A
Sample wt/vol: 30.1 (g/mL) G Lab File ID: E1D8012F
% Moisture: 10 decanted: (Y/N) N Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/11/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

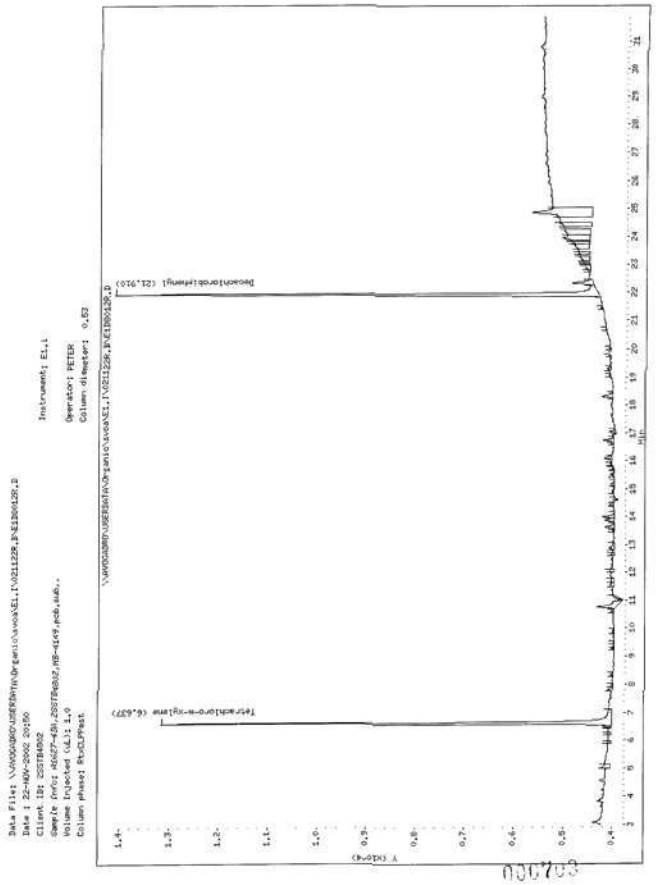
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U

FORM I PCB

000701



000702



Data File: E1D8012F.D
Report Date: 27-Nov-2002 14:51

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1D8012F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1D8012R.D
Inj Date : 22-NOV-2002 20:50
Sample Info: A1627-43A,2SSTB4802,MB-4149,pcb.sub,,
Misc Info : 0,,,2,,,,,,,,11-NOV-02,08-NOV-02,A1627
Cal Date : 25-NOV-2002 16:36
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	*Value*	*Description*
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.100	Weight of sample extracted (g)
M	10.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Recge	Ratio
Tetrachloro-m-xylene	7.863	6.637	9183	9155	8.7	7.6		100.00
Decachlorobiphenyl	24.590	21.910	8526	9829	7.5	9.0		100.00

SZ 11/27/02

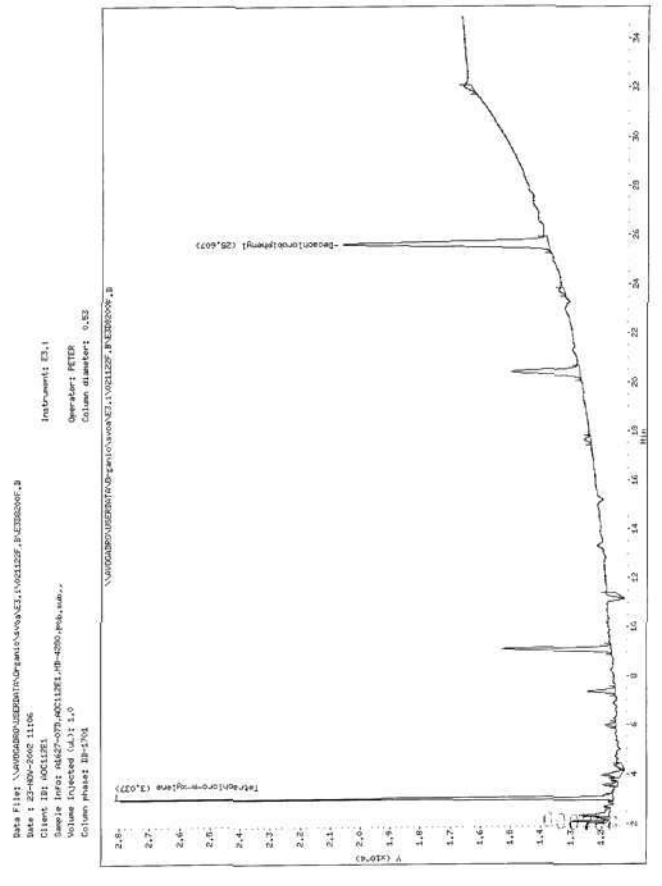
FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

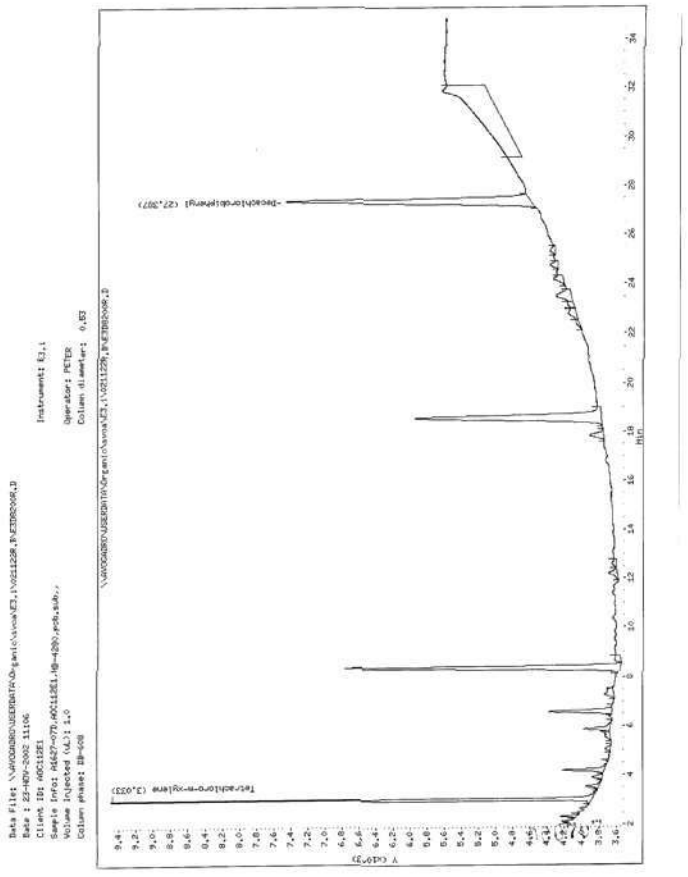
CLIENT SAMPLE NO.
AOC112E1

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-07D
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E3D8200F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/11/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB





Data File: E3D8200F.D
Report Date: 26-Nov-2002 16:30

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3D8200F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3D8200R.D
Inj Date : 23-NOV-2002 11:06
Sample Info: A1627-07D,AOC112E1,MB-4280,pcb.sub,,
Misc Info :
Cal Date : 25-NOV-2002 09:32
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.037	3.033	14549	5613	0.16	0.16		100.00
Decachlorobiphenyl	25.407	27.387	4819	2858	0.14	0.14		100.00

11/24/02

000708

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

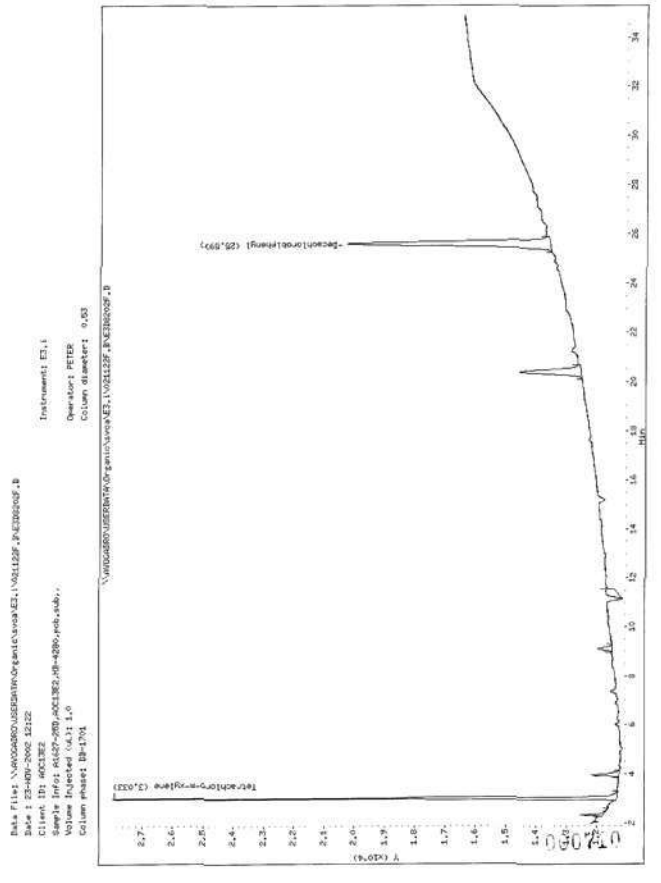
CLIENT SAMPLE NO.
AOC13E2

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-25D
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E3D8202F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/11/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

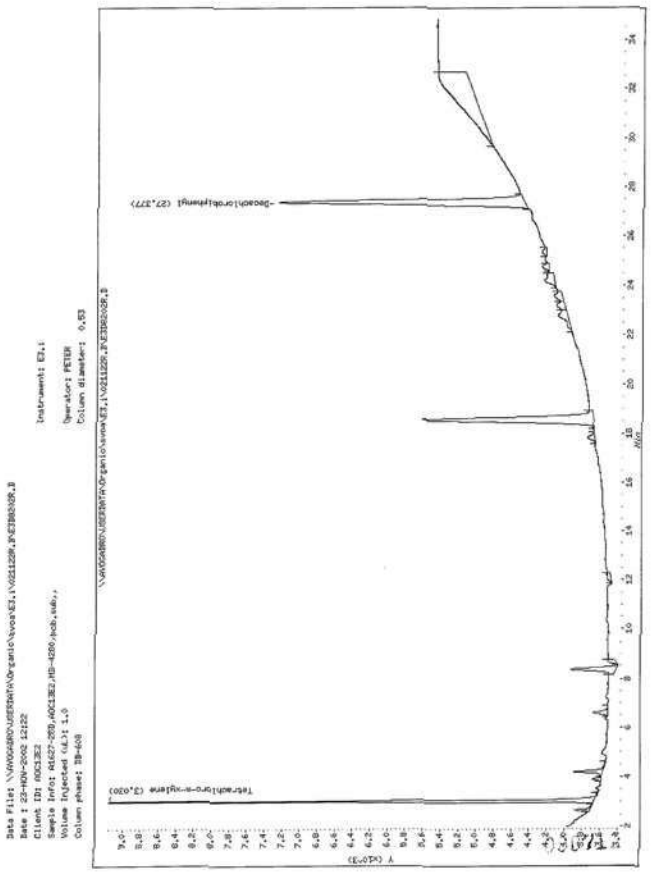
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

000709



000710



Data File: E3D8202F.D
Report Date: 26-Nov-2002 16:30

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3D8202F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3D8202R.D
Inj Date : 23-NOV-2002 12:22
Sample Info: A1627-25D,AOC13E2,MB-4280,pcb.sub,,
Misc Info :
Cal Date : 25-NOV-2002 09:32
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-Xylene	3.033	3.030	16595	5492	0.16	0.15		100.00
Decachlorobiphenyl	28.597	27.377	4687	1788	0.14	0.14		100.00

SZ 11/26/02

000712

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

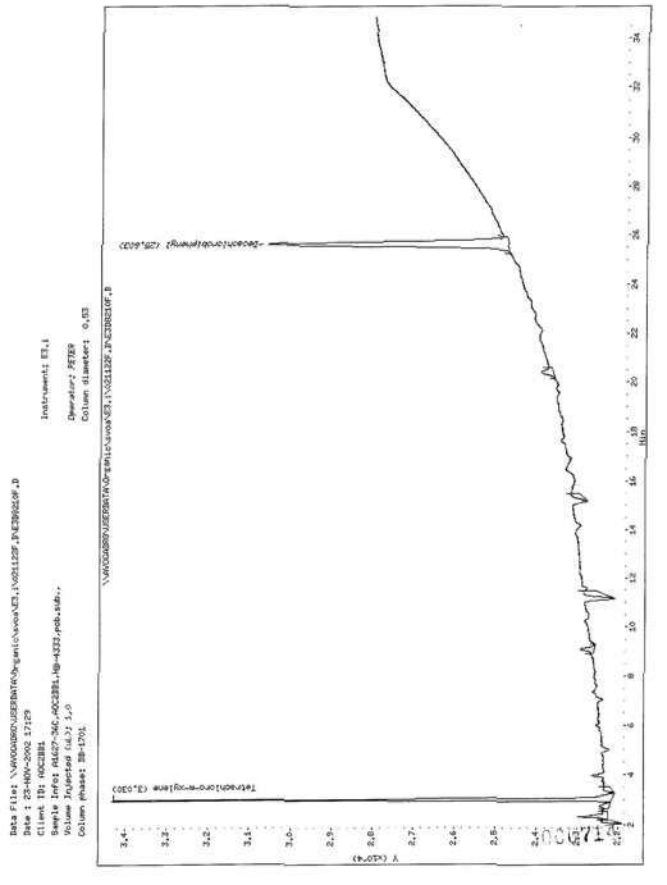
CLIENT SAMPLE NO.
AOC2BB1

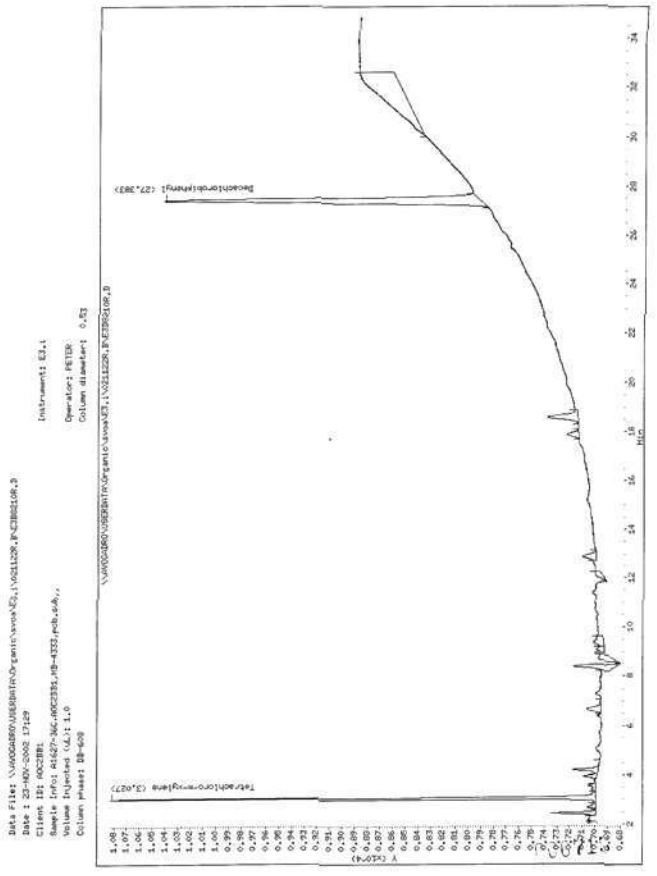
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-36C
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E3D8210F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/13/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

000713





Data File: E3D8210F.D
Report Date: 26-Nov-2002 16:12

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3D8210F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3D8210R.D
Inj Date : 23-NOV-2002 17:29
Sample Info: A1627-36C,AOC2BB1,MB-4333,pcb.sub*,
Misc Info :
Cal Date : 25-NOV-2002 09:32
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.030	3.027	12161	3828	0.12	0.11		100.00
Decachlorobiphenyl	25.603	27.383	5892	2499	0.12	0.12		100.00

SZ 11/26/02

000716

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

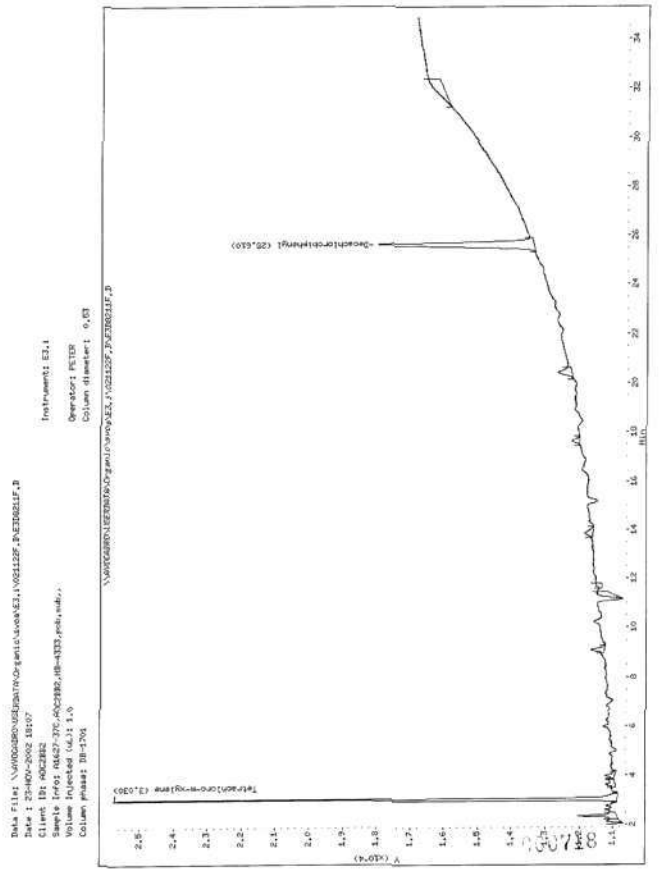
CLIENT SAMPLE NO.
AOC2BB2

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-37C
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E3D8211F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/13/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

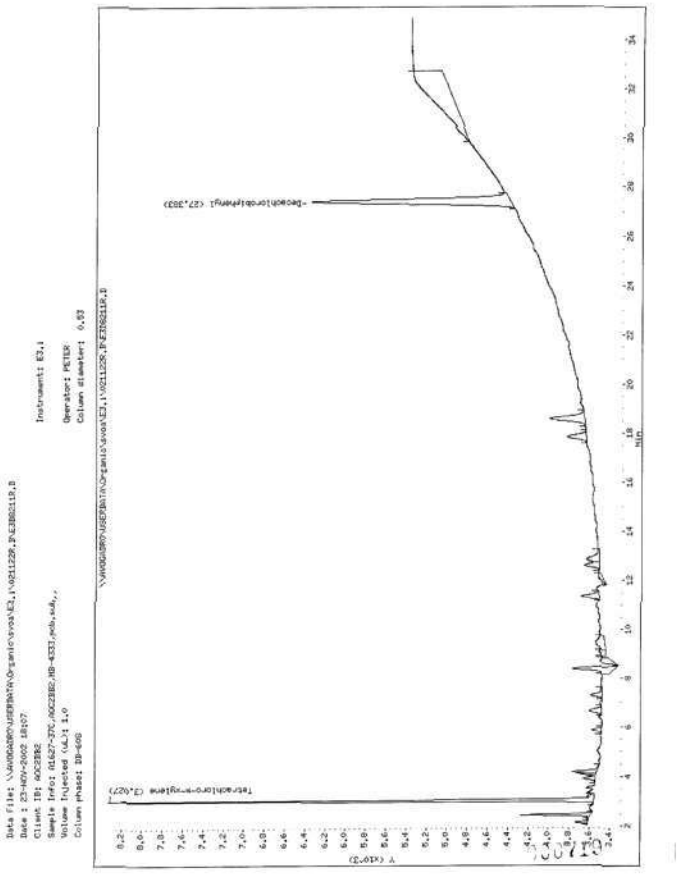
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

000717



000718



Data File: B3D8211F.D
Report Date: 26-Nov-2002 16:12

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3D8211F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3D8211R.D
Inj Date : 23-NOV-2002 18:07
Sample Info: A1627-37C,AOC2BB2,MB-4333,pcb.sub,,
Misc Info :
Cal Date : 25-NOV-2002 09:32
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.030	3.027	14887	4767	0.14	0.13		100.00
Decachlorobiphenyl	25.610	27.383	4604	1957	0.098	0.098		100.00

SZ 11/14/02

000720

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

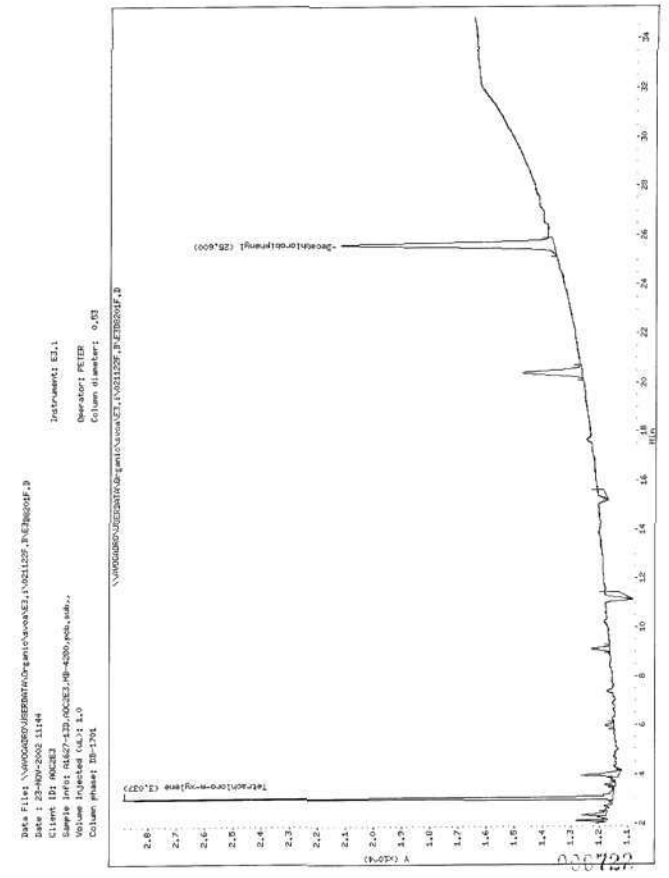
CLIENT SAMPLE NO.
AOC2E3

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-13D
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E3D8201F
% Moisture: ____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/11/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

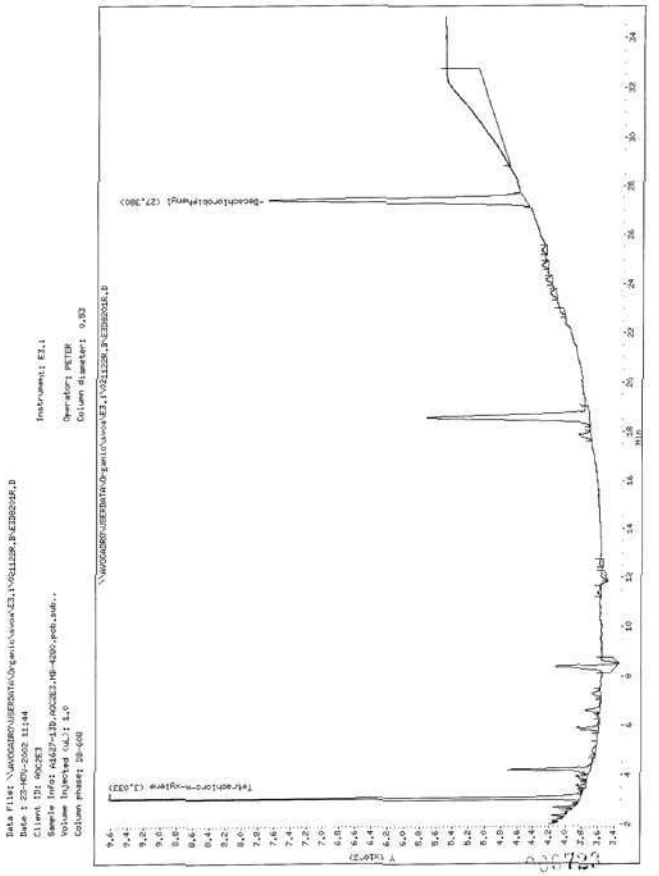
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

000721



000722



Data File: E3D8201F.D
Report Date: 26-Nov-2002 16:30

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3D8201F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3D8201R.D
Inj Date : 23-NOV-2002 11:44
Sample Info: A1627-13D,AOC2E3,MB-4280,pcb.sub,,
Misc Info :
Cal Date : 25-NOV-2002 09:32
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.037	3.033	17369	5804	0.17	0.16		100.00
Decachlorobiphenyl	25.600	27.380	7544	3171	0.14	0.16		100.00

SZ 11/26/02

030724

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

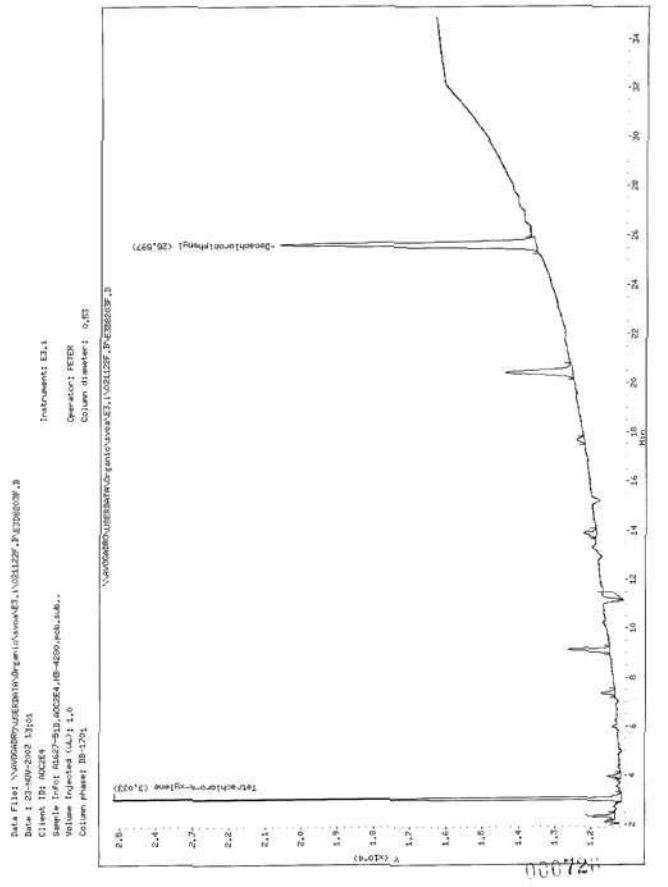
CLIENT SAMPLE NO.
AOC2E4

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-51D
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E3D8203F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/11/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

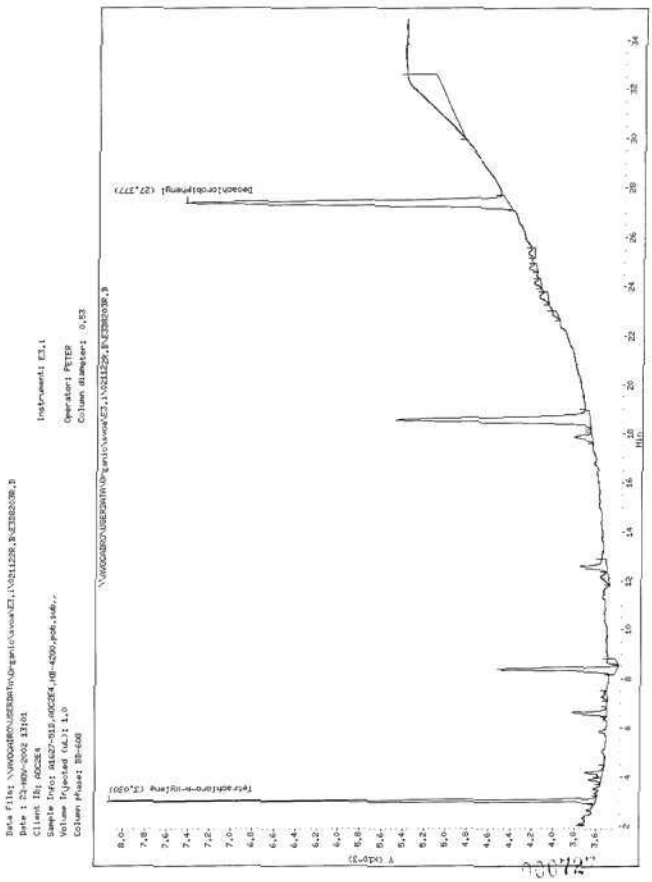
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

030725



030726



Data File: E3D8203F.D
Report Date: 26-Nov-2002 16:31

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3D8203F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3D8203R.D
Inj Date : 23-NOV-2002 13:01
Sample Info: A1627-51D,AOC2E4,MB-4280,pcb.sub,,
Misc Info :
Cal Date : 25-NOV-2002 09:32
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.033	3.030	14014	4532	0.13	0.13		100.00
Decachlorobiphenyl	25.587	27.377	7073	3005	0.15	0.15		100.00

SZ 11/26/02

000728

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E1 *Calibration Date(s): 11/19/02 11/20/02*

Column: RTXCLPPEST 2 ID: 0.53 (mm) Calibration Time(s): 1615 0400

LAB FILE ID: RF0.1: E1D7914F RF0.5: E1D7915F RF1: E1D7916F
RF2.5: E1D7917F RF5: E1D7918F

COMPOUND	RF0.1	RF0.5	RF1	RF2.5	RF5
Aroclor-1016	8060.000	7680.000	7248.000	6860.800	6211.000
(2)	17120.000	19642.000	19634.000	19439.600	18112.400
(3)	6230.000	7368.000	7553.000	7766.800	7408.200
Aroclor-1221	4060.000	4284.000	4089.000	3904.400	3713.400
(2)	3030.000	3084.000	2929.000	2754.800	2577.600
(3)	10410.000	10052.000	9120.000	8197.600	7531.800
Aroclor-1232			8760.000		
(2)			9349.000		
(3)			4755.000		
Aroclor-1242	11430.000	10396.000	9427.000	8176.400	7278.400
(2)	15140.000	16782.000	16404.000	15298.400	14171.400
(3)	6870.000	7748.000	7514.000	7364.000	7329.800
Aroclor-1248	11930.000	12860.000	12866.000	11600.800	10523.600
(2)	10210.000	11940.000	12258.000	11358.400	10458.800
(3)	6580.000	7226.000	7307.000	7072.000	6629.000
Aroclor-1254	20250.000	21902.000	20582.000	19670.000	18554.800
(2)	12210.000	13716.000	13041.000	12882.000	12689.400
(3)	16850.000	17584.000	16325.000	15440.800	14732.000
Aroclor-1260	22160.000	21694.000	20649.000	20238.400	18924.600
(2)	31740.000	30674.000	29708.000	29059.600	27855.400
(3)	21090.000	20312.000	19602.000	19101.200	18216.200
Tetrachloro-m-xylene	328000.00	378700.00	402150.00	430700.00	416510.00
Decachlorobiphenyl	502000.00	440300.00	409450.00	381740.00	351950.00

FORM VI PCB

000729

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E1 Calibration Date(s): 11/19/02 11/20/02

Column: RTXCLPPEST 2 ID: 0.53 (mm) Calibration Time(s): 1615 0400

COMPOUND	CURVE	COEFFICIENT A1	%RSD OR R^2
Aroclor-1016	AVRG	7211.96000	10.0
(2)	AVRG	18789.6000	6.0
(3)	AVRG	7265.20000	8.2
Aroclor-1221	AVRG	4010.16000	5.3
(2)	AVRG	2875.08000	7.2
(3)	AVRG	9062.28000	13.4
Aroclor-1232	AVRG	8760.00000	0.0
(2)	AVRG	9349.00000	0.0
(3)	AVRG	4755.00000	0.0
Aroclor-1242	AVRG	9341.56000	17.8
(2)	AVRG	15559.1600	6.7
(3)	AVRG	7365.16000	4.4
Aroclor-1248	AVRG	11956.0800	8.2
(2)	AVRG	11245.0400	8.0
(3)	AVRG	6962.80000	4.8
Aroclor-1254	AVRG	20191.7600	6.1
(2)	AVRG	12907.6800	4.2
(3)	AVRG	16186.3600	7.0
Aroclor-1260	AVRG	20733.2000	6.1
(2)	AVRG	29807.4000	5.0
(3)	AVRG	19664.2800	5.6
Tetrachloro-m-xylene	AVRG	391212.000	10.3
Decachlorobiphenyl	AVRG	417088.000	13.8

FORM VI PCB

000730

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E1 Calibration Date(s): 11/19/02 11/20/02

Column: RTXCLPPEST ID: 0.53 (mm) Calibration Time(s): 1615 0400

LAB FILE ID: RF0.1: E1D7914R RF0.5: E1D7915R RF1: E1D7916R
RF2.5: E1D7917R RF5: E1D7918R

COMPOUND	RF0.1	RF0.5	RF1	RF2.5	RF5
Aroclor-1016	7180.000	7730.000	7637.000	7963.600	7712.800
(2)	15780.000	15256.000	14828.000	14702.800	13821.600
(3)	4530.000	6950.000	7904.000	9445.200	9897.000
Aroclor-1221	4580.000	4422.000	4258.000	4237.600	4266.400
(2)	3180.000	3146.000	3049.000	2990.000	2967.800
(3)	10950.000	10972.000	10375.000	9928.000	9685.000
Aroclor-1232			10425.000		
(2)			7251.000		
(3)			7478.000		
Aroclor-1242	13710.000	13318.000	12726.000	11860.000	11092.400
(2)	8740.000	12754.000	14466.000	16216.000	17179.200
(3)	4130.000	6332.000	6608.000	7491.600	8665.600
Aroclor-1248	7610.000	10746.000	11960.000	12940.400	13033.800
(2)	8370.000	10968.000	12237.000	14480.000	15461.600
(3)	7170.000	8740.000	9108.000	10274.000	10862.800
Aroclor-1254	8990.000	15226.000	16766.000	19701.600	21081.600
(2)	9960.000	12948.000	12930.000	13951.200	14144.800
(3)	9790.000	12996.000	13574.000	15578.800	16698.600
Aroclor-1260	17440.000	21856.000	23379.000	26172.400	26617.600
(2)	12180.000	16244.000	18498.000	22639.200	23916.400
(3)	18570.000	22824.000	25565.000	30812.800	32758.000
Tetrachloro-m-xylene	418500.00	422600.00	432050.00	479080.00	485640.00
Decachlorobiphenyl	439000.00	381400.00	373850.00	403180.00	407700.00

FORM VI PCB

000731

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E1 Calibration Date(s): 11/19/02 11/20/02

Column: RTXCLPPEST ID: 0.53 (mm) Calibration Time(s): 1615 0400

COMPOUND	CURVE	COEFFICIENTS A0	COEFFICIENTS A1	%RSD OR R^2
Aroclor-1016	LINR	-4.07e-003	1.29e-004	1.000
(2)	LINR	-6.3e-002	7.248e-005	0.999
(3)	LINR	0.14499012	9.861e-005	0.999
Aroclor-1221	AVRG		4352.80000	3.4
(2)	AVRG		3066.56000	3.0
(3)	AVRG		10382.0000	5.6
Aroclor-1232	AVRG		10425.0000	0.0
(2)	AVRG		7251.00000	0.0
(3)	AVRG		7478.00000	0.0
Aroclor-1242	LINR	-0.1075811	9.104e-005	0.999
(2)	LINR	0.12720852	5.713e-005	0.999
(3)	LINR	0.18373678	1.132e-004	0.996
Aroclor-1248	LINR	7.278e-002	7.556e-005	1.000
(2)	LINR	0.14897899	6.326e-005	0.999
(3)	LINR	0.11174710	9.068e-005	0.999
Aroclor-1254	LINR	0.15044465	4.639e-005	0.999
(2)	LINR	5.568e-002	7.001e-005	1.000
(3)	LINR	0.13086306	5.886e-005	0.999
Aroclor-1260	LINR	8.511e-002	3.698e-005	1.000
(2)	LINR	0.15701458	4.076e-005	0.999
(3)	LINR	0.15203621	2.982e-005	0.998
Tetrachloro-m-xylene	AVRG		447574.000	7.2
Decachlorobiphenyl	AVRG		401026.000	6.4

FORM VI PCB

000732

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date(s): 11/11/02 11/12/02

Column: DB-1701 ID: 0.53 (mm) Calibration Time(s): 1732 0618

LAB FILE ID: RF0.1: E3D7938F RF0.5: E3D7939F RF1: E3D7940F
RF2.5: E3D7941F RF5: E3D7942F

COMPOUND	RF0.1	RF0.5	RF1	RF2.5	RF5
Aroclor-1016	23910.000	19618.000	17673.000	15136.800	12719.800
(2)	62520.000	48666.000	43120.000	36790.000	31476.800
(3)	29110.000	23134.000	20405.000	17308.800	14552.000
Aroclor-1221	10880.000	9508.000	8377.000	7276.000	6347.400
(2)	7650.000	6656.000	5939.000	5070.400	4375.200
(3)	26830.000	21502.000	18475.000	15096.000	12873.400
Aroclor-1232			16876.000		
(2)			11286.000		
(3)			20743.000		
Aroclor-1242	22190.000	18452.000	15853.000	13594.000	11771.000
(2)	48430.000	39632.000	33938.000	29294.800	25384.000
(3)	24430.000	20778.000	17998.000	16164.400	14168.600
Aroclor-1248	33410.000	26434.000	23972.000	19853.200	17368.800
(2)	36480.000	28086.000	25057.000	20316.800	17492.000
(3)	45510.000	35820.000	32329.000	26820.800	23460.600
Aroclor-1254	35720.000	28546.000	24367.000	20437.200	17934.200
(2)	39680.000	33760.000	29811.000	25179.200	22464.600
(3)	30200.000	27008.000	24253.000	20752.400	18739.400
Aroclor-1260	44900.000	36790.000	31613.000	29161.200	24405.200
(2)	58320.000	52100.000	48866.000	44588.400	40608.400
(3)	36190.000	33090.000	31302.000	28823.200	26098.400
Tetrachloro-m-xylene	1221000.0	1113000.0	1052600.0	963880.00	875490.00
Decachlorobiphenyl	535500.00	495600.00	472900.00	440420.00	399060.00

FORM VI PCB

000733

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date(s): 11/11/02 11/12/02

Column: DB-1701 ID: 0.53 (mm) Calibration Time(s): 1732 0618

COMPOUND	CURVE	COEFFICIENTS A0	COEFFICIENTS A1	%RSD OR R^2
Aroclor-1016	LINR	*-0.2920943*	*8.042e-005*	*0.990*
(2)	LINR	-0.2899771	3.266e-005	0.993
(3)	LINR	-0.3108132	7.06e-005	0.991
Aroclor-1221	LINR	-0.2498648	1.613e-004	0.994
(2)	LINR	-0.2686342	2.342e-004	0.993
(3)	LINR	-0.3378493	8.051e-005	0.991
Aroclor-1232	AVRG		16876.0000	0.0
(2)	AVRG		11286.0000	0.0
(3)	AVRG		20743.0000	0.0
Aroclor-1242	LINR	-0.2804699	8.742e-005	0.994
(2)	LINR	-0.2774325	4.053e-005	0.994
(3)	LINR	-0.2291746	7.211e-005	0.995
Aroclor-1248	LINR	-0.2812100	5.935e-005	0.994
(2)	LINR	-0.3230460	5.92e-005	0.992
(3)	LINR	-0.2823793	4.396e-005	0.994
Aroclor-1254	LINR	-0.2912252	5.769e-005	0.994
(2)	LINR	-0.2508294	4.583e-005	0.996
(3)	LINR	-0.2198128	5.473e-005	0.996
Aroclor-1260	LINR	-0.2567835	4.163e-005	0.991
(2)	LINR	-0.1542424	2.497e-005	0.997
(3)	LINR	-0.1494236	3.877e-005	0.997
Tetrachloro-m-xylene	AVRG		1045194.00	12.7
Decachlorobiphenyl	AVRG		468696.000	11.1

FORM VI PCB

000734

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date(s): 11/11/02 11/12/02

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1732 0618

LAB FILE ID: RF0.1: E3D7938R RF0.5: E3D7939R RF1: E3D7940R
RF2.5: E3D7941R RF5: E3D7942R

COMPOUND	RF0.1	RF0.5	RF1	RF2.5	RF5
Aroclor-1016	6940.000	5886.000	5574.000	4997.200	4474.400
(2)	*21520.000*	*18642.000*	*17533.000*	*15987.200*	*14319.800*
(3)	8670.000	7364.000	6985.000	6356.000	5736.600
Aroclor-1221	4230.000	3864.000	3519.000	3212.000	2983.600
(2)	3290.000	2964.000	2675.000	2378.800	2165.200
(3)	10370.000	8780.000	7777.000	6765.200	6070.600
Aroclor-1232			7632.000		
(2)			5328.000		
(3)			8401.000		
Aroclor-1242	6890.000	6034.000	5472.000	5200.000	4794.400
(2)	17590.000	15680.000	14057.000	12991.600	11622.800
(3)	7060.000	6246.000	5620.000	5164.000	4646.600
Aroclor-1248	11630.000	9840.000	9404.000	8361.600	7626.000
(2)	10630.000	8764.000	8308.000	7367.600	6749.000
(3)	11000.000	9288.000	8976.000	8064.000	7447.200
Aroclor-1254	9210.000	8260.000	7775.000	7033.600	6574.200
(2)	15370.000	13180.000	12119.000	10552.400	9808.800
(3)	9650.000	8256.000	7593.000	6398.400	6092.400
Aroclor-1260	13390.000	11368.000	10211.000	9332.800	8258.400
(2)	11070.000	9870.000	9393.000	8948.400	8230.200
(3)	19440.000	17156.000	16483.000	15988.400	14900.200
Tetrachloro-m-xylene	383000.00	365500.00	351900.00	346060.00	334820.00
Decachlorobiphenyl	238500.00	210800.00	197400.00	180760.00	172880.00

FORM VI PCB

000735

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date(s): 11/11/02 11/12/02

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1732 0618

COMPOUND	CURVE	COEFFICIENTS A0	COEFFICIENTS A1	%RSD OR R^2
Aroclor-1016	AVRG		5574.32000	16.8
(2)	AVRG		17600.4000	15.5
(3)	AVRG		*7022.32000*	*15.8*
Aroclor-1221	LINR	-0.1438762	3.407e-004	0.998
(2)	LINR	-0.1833372	4.712e-004	0.997
(3)	LINR	-0.2229868	1.689e-004	0.996
Aroclor-1232	AVRG		7632.00000	0.0
(2)	AVRG		5328.00000	0.0
(3)	AVRG		8401.00000	0.0
Aroclor-1242	AVRG		5678.08000	14.3
(2)	AVRG		14388.2800	16.2
(3)	AVRG		5747.32000	16.4
Aroclor-1248	AVRG		9372.32000	16.3
(2)	AVRG		8363.72000	17.8
(3)	AVRG		8955.04000	15.1
Aroclor-1254	AVRG		7770.56000	13.3
(2)	AVRG		12206.0400	18.1
(3)	AVRG		7597.96000	19.0
Aroclor-1260	AVRG		10512.0400	18.8
(2)	AVRG		9502.32000	11.2
(3)	AVRG		16793.5200	10.1
Tetrachloro-m-xylene	AVRG		356256.000	5.2
Decachlorobiphenyl	AVRG		200068.000	13.0

FORM VI PCB

000736

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E1 Calibration Date(s): 11/19/02 11/20/02

Column: RTXCLPPEST 2 ID: 0.53 (mm) Calibration Time(s): 1615 0400

LAB FILE ID: RT1: E1D7914F RT2: E1D7915F RT3: E1D7916F
RT4: E1D7917F RT5: E1D7918F

COMPOUND	RT1	RT2	RT3	RT4	RT5
Aroclor-1016	9.580	9.570	9.570	9.570	9.570
(2)	12.190	12.190	12.190	12.180	12.180
(3)	14.270	14.250	14.250	14.240	14.240
Aroclor-1221	8.950	8.950	8.940	8.940	8.940
(2)	9.400	9.390	9.390	9.390	9.390
(3)	9.580	9.570	9.570	9.570	9.570
Aroclor-1232			9.570		
(2)			12.190		
(3)			12.580		
Aroclor-1242	10.850	10.840	10.830	10.830	10.830
(2)	12.190	12.190	12.180	12.180	12.180
(3)	15.120	15.100	15.100	15.090	15.090
Aroclor-1248	13.930	13.920	13.910	13.910	13.910
(2)	14.260	14.250	14.250	14.240	14.240
(3)	16.870	16.860	16.850	16.850	16.840
Aroclor-1254	16.860	16.850	16.850	16.850	16.840
(2)	17.490	17.480	17.480	17.470	17.470
(3)	18.900	18.890	18.890	18.890	18.880
Aroclor-1260	18.900	18.890	18.880	18.880	18.880
(2)	20.600	20.590	20.580	20.580	20.580
(3)	21.540	21.530	21.530	21.520	21.520
Tetrachloro-m-xylene	7.890	7.890	7.890	7.880	7.880
Decachlorobiphenyl	24.600	24.600	24.600	24.590	24.590

FORM VI PCB

000737

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E1 Calibration Date(s): 11/19/02 11/20/02

Column: RTXCLPPEST 2 ID: 0.53 (mm) Calibration Time(s): 1615 0400

COMPOUND	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016	9.572	9.500	9.640
(2)	12.186	12.110	12.250
(3)	14.250	14.173	14.313
Aroclor-1221	8.944	8.867	9.007
(2)	9.392	9.317	9.457
(3)	9.572	9.497	9.637
Aroclor-1232	9.570	9.503	9.643
(2)	12.190	12.117	12.257
(3)	12.580	12.507	12.647
Aroclor-1242	10.836	10.763	10.903
(2)	12.184	12.110	12.250
(3)	15.100	15.020	15.160
Aroclor-1248	13.916	13.837	13.977
(2)	14.248	14.170	14.310
(3)	16.854	16.773	16.913
Aroclor-1254	16.850	16.770	16.910
(2)	17.478	17.400	17.540
(3)	18.890	18.813	18.953
Aroclor-1260	18.886	18.810	18.950
(2)	20.586	20.507	20.647
(3)	21.528	21.450	21.590
Tetrachloro-m-xylene	7.886	7.833	7.933
Decachlorobiphenyl	24.596	24.490	24.690

FORM VI PCB

000738

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E1 Calibration Date(s): 11/19/02 11/20/02

Column: RTXCLPPEST ID: 0.53 (mm) Calibration Time(s): 1615 0400

LAB FILE ID: RT1: E1D7914R RT2: E1D7915R RT3: E1D7916R
RT4: E1D7917R RT5: E1D7918R

COMPOUND	RT1	RT2	RT3	RT4	RT5
Aroclor-1016	7.870	7.870	7.870	7.870	7.870
(2)	8.940	8.950	8.950	8.940	8.940
(3)	11.880	11.850	11.840	11.840	11.830
Aroclor-1221	7.290	7.290	7.290	7.290	7.290
(2)	7.750	7.750	7.740	7.740	7.740
(3)	7.870	7.860	7.860	7.860	7.860
Aroclor-1232			7.860		
(2)			8.950		
(3)			10.300		
Aroclor-1242	8.940	8.940	8.940	8.940	8.940
(2)	10.300	10.300	10.290	10.290	10.290
(3)	13.110	13.080	13.070	13.060	13.060
Aroclor-1248	11.860	11.840	11.840	11.830	11.830
(2)	13.110	13.080	13.070	13.060	13.050
(3)	13.640	13.620	13.610	13.600	13.600
Aroclor-1254	14.680	14.670	14.660	14.660	14.650
(2)	15.910	15.900	15.900	15.900	15.890
(3)	16.650	16.630	16.630	16.620	16.620
Aroclor-1260	15.930	15.910	15.900	15.890	15.890
(2)	16.660	16.630	16.630	16.620	16.610
(3)	18.400	18.390	18.390	18.380	18.370
Tetrachloro-m-xylene	6.640	6.640	6.640	6.640	6.640
Decachlorobiphenyl	21.940	21.930	21.930	21.930	21.920

FORM VI PCB

000739

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E1 Calibration Date(s): 11/19/02 11/20/02

Column: RTXCLPPEST ID: 0.53 (mm) Calibration Time(s): 1615 0400

COMPOUND	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016	7.870	7.797	7.937
(2)	8.944	8.873	9.013
(3)	11.848	11.763	11.903
Aroclor-1221	7.290	7.220	7.360
(2)	7.744	7.670	7.810
(3)	7.862	7.790	7.930
Aroclor-1232	7.860	7.793	7.933
(2)	8.950	8.877	9.017
(3)	10.300	10.230	10.370
Aroclor-1242	8.940	8.870	9.010
(2)	10.294	10.223	10.363
(3)	13.076	12.990	13.130
Aroclor-1248	11.840	11.757	11.897
(2)	13.074	12.983	13.123
(3)	13.614	13.527	13.667
Aroclor-1254	14.664	14.577	14.717
(2)	15.900	15.820	15.960
(3)	16.630	16.547	16.687
Aroclor-1260	15.904	15.820	15.960
(2)	16.630	16.540	16.680
(3)	18.386	18.303	18.443
Tetrachloro-m-xylene	6.640	6.593	6.693
Decachlorobiphenyl	21.930	21.823	22.023

FORM VI PCB

000740

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date(s): 11/11/02 11/12/02

Column: DB-1701 ID: 0.53 (mm) Calibration Time(s): 1732 0618

LAB FILE ID: RT1: E3D7938F RT2: E3D7939F RT3: E3D7940F
RT4: E3D7941F RT5: E3D7942F

COMPOUND	RT1	RT2	RT3	RT4	RT5
Aroclor-1016	7.220	7.230	7.230	7.230	7.230
(2)	6.820	6.820	6.820	6.830	6.820
(3)	7.960	7.960	7.960	7.970	7.960
Aroclor-1221	3.870	3.870	3.870	3.870	3.870
(2)	4.250	4.250	4.250	4.250	4.250
(3)	4.400	4.400	4.400	4.400	4.400
Aroclor-1232			4.400		
(2)			5.420		
(3)			6.810		
Aroclor-1242	7.950	7.950	7.950	7.950	7.950
(2)	6.810	6.810	6.810	6.810	6.810
(3)	10.210	10.220	10.210	10.210	10.210
Aroclor-1248	6.810	6.810	6.810	6.810	6.810
(2)	7.940	7.950	7.950	7.950	7.950
(3)	10.210	10.210	10.210	10.210	10.210
Aroclor-1254	10.190	10.190	10.180	10.180	10.180
(2)	12.620	12.620	12.610	12.610	12.610
(3)	13.710	13.700	13.690	13.690	13.690
Aroclor-1260	14.290	14.290	14.290	14.290	14.290
(2)	18.890	18.880	18.880	18.880	18.880
(3)	20.560	20.560	20.550	20.560	20.550
Tetrachloro-m-xylene	3.030	3.030	3.040	3.040	3.030
Decachlorobiphenyl	25.580	25.580	25.580	25.570	25.570

FORM VI PCB

000741

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date(s): 11/11/02 11/12/02

Column: DB-1701 ID: 0.53 (mm) Calibration Time(s): 1732 0618

COMPOUND	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016	7.228	7.157	7.297
(2)	6.822	6.753	6.893
(3)	7.962	7.893	8.033
Aroclor-1221	3.870	3.797	3.937
(2)	4.250	4.177	4.317
(3)	4.400	4.333	4.473
Aroclor-1232	4.400	4.327	4.467
(2)	5.420	5.353	5.493
(3)	6.810	6.737	6.877
Aroclor-1242	7.950	7.880	8.020
(2)	6.810	6.740	6.880
(3)	10.212	10.140	10.280
Aroclor-1248	6.810	6.743	6.883
(2)	7.948	7.880	8.020
(3)	10.210	10.143	10.283
Aroclor-1254	10.184	10.110	10.250
(2)	12.614	12.540	12.680
(3)	13.696	13.620	13.760
Aroclor-1260	14.290	14.217	14.357
(2)	18.882	18.807	18.947
(3)	20.556	20.480	20.620
Tetrachloro-m-xylene	3.034	2.983	3.083
Decachlorobiphenyl	25.576	25.470	25.670

FORM VI PCB

000742

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date(s): 11/11/02 11/12/02

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1732 0618

LAB FILE ID: RT1: E3D7938R RT2: E3D7939R RT3: E3D7940R
RT4: E3D7941R RT5: E3D7942R

COMPOUND	RT1	RT2	RT3	RT4	RT5
Aroclor-1016	9.220	9.220	9.220	9.220	9.220
(2)	6.950	6.950	6.950	6.960	6.950
(3)	7.490	7.490	7.490	7.500	7.490
Aroclor-1221	4.040	4.040	4.040	4.040	4.040
(2)	4.430	4.430	4.430	4.420	4.420
(3)	4.600	4.600	4.590	4.590	4.590
Aroclor-1232			4.590		
(2)			5.780		
(3)			6.940		
Aroclor-1242	10.410	10.410	10.400	10.400	10.400
(2)	6.940	6.940	6.940	6.940	6.940
(3)	7.480	7.480	7.480	7.480	7.480
Aroclor-1248	6.940	6.940	6.940	6.940	6.940
(2)	10.200	10.200	10.200	10.200	10.200
(3)	10.400	10.410	10.410	10.410	10.410
Aroclor-1254	16.430	16.430	16.420	16.430	16.430
(2)	13.160	13.160	13.150	13.150	13.150
(3)	13.730	13.730	13.720	13.720	13.720
Aroclor-1260	*14.440*	*14.430*	*14.430*	*14.430*	*14.430*
(2)	16.430	16.430	16.430	16.430	16.420
(3)	19.150	19.150	19.150	19.150	19.150
Tetrachloro-m-xylene	3.030	3.030	3.030	3.020	3.020
Decachlorobiphenyl	27.360	27.370	27.350	27.360	27.370

FORM VI PCB

000743

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date(s): 11/11/02 11/12/02

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1732 0618

COMPOUND	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016	9.220	9.150	9.290
(2)	6.952	6.883	7.023
(3)	7.492	7.423	7.563
Aroclor-1221	4.040	3.967	4.107
(2)	4.426	4.353	4.493
(3)	4.594	4.520	4.660
Aroclor-1232	4.590	4.517	4.657
(2)	5.780	5.713	5.853
(3)	6.940	6.867	7.007
Aroclor-1242	10.404	10.333	10.473
(2)	6.940	6.870	7.010
(3)	7.480	7.410	7.550
Aroclor-1248	6.940	6.873	7.013
(2)	10.200	10.133	10.273
(3)	10.408	10.340	10.480
Aroclor-1254	16.428	16.357	16.497
(2)	13.154	13.080	13.220
(3)	13.724	13.647	13.787
Aroclor-1260	14.432	14.363	14.503
(2)	*16.428*	*16.353*	*16.493*
(3)	19.150	19.077	19.217
Tetrachloro-m-xylene	3.026	2.973	3.073
Decachlorobiphenyl	27.362	27.267	27.467

FORM VI PCB

000744

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E1 Calibration Date: 11/20/02 Time: 1826

Lab File ID: E1D7934F Init. Calib. Date(s): 11/20/02 11/20/02

Init. Calib. Times: 0139 0400

GC Column: RTXCLPPEST 2 ID: 0.53 (mm)

COMPOUND	RRF	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	7211.960	7387.000	0.01	2.4	15.0
(2)	18789.600	19768.000	0.01	5.2	15.0
(3)	7265.200	7687.000	0.01	5.8	15.0
Aroclor-1260	20733.200	21242.000	0.01	2.4	15.0
(2)	29807.400	30575.000	0.01	2.6	15.0
(3)	19664.280	20128.000	0.01	2.4	15.0
Tetrachloro-m-xylene	391212.00	410750.00	0.01	5.0	15.0
Decachlorobiphenyl	417088.00	429400.00	0.01	3.0	15.0

FORM VII PCB

000745

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E1 Calibration Date: 11/20/02 Time: 1826

Lab File ID: E1D7934R Init. Calib. Date(s): 11/20/02 11/20/02

Init. Calib. Times: 0139 0400

GC Column: RTXCLPPEST ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	CAL1 AMOUNT	CURVE	%D	MAX %d
Aroclor-1016	0.97	1.0	LINR	3.0	15.0
(2)	0.97	1.0	LINR	3.0	15.0
(3)	0.97	1.0	LINR	3.0	15.0
Aroclor-1260	0.93	1.0	LINR	7.0	15.0
(2)	0.93	1.0	LINR	7.0	15.0
(3)	0.93	1.0	LINR	7.0	15.0
Tetrachloro-m-xylene	0.020	0.020	AVRG	0.0	15.0
Decachlorobiphenyl	0.020	0.020	AVRG	0.0	15.0

FORM VII PCB

000746

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E1 Calibration Date: 11/22/02 Time: 1405

Lab File ID: E1D8002F Init. Calib. Date(s): 11/20/02 11/20/02

Init. Calib. Times: 0139 0400

GC Column: RTXCLPPEST 2 ID: 0.53 (mm)

COMPOUND	RRF	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	7211.960	7681.000	0.01	6.5	15.0
(2)	18789.600	21255.000	0.01	13.1	15.0
(3)	7265.200	8321.000	0.01	14.5	15.0
Aroclor-1260	20733.200	22626.000	0.01	9.1	15.0
(2)	29807.400	32998.000	0.01	10.7	15.0
(3)	19664.280	21976.000	0.01	11.8	15.0
Tetrachloro-m-xylene	391212.00	431400.00	0.01	10.3	15.0
Decachlorobiphenyl	417088.00	453700.00	0.01	8.8	15.0

FORM VII PCB

000747

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E1 Calibration Date: 11/22/02 Time: 1405

Lab File ID: E1D8002R Init. Calib. Date(s): 11/20/02 11/20/02

Init. Calib. Times: 0139 0400

GC Column: RTXCLPPEST ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	CAL1 AMOUNT	CURVE	%D	MAX %d
Aroclor-1016	1.1	1.0	LINR	10.0	15.0
(2)	1.1	1.0	LINR	10.0	15.0
(3)	1.1	1.0	LINR	10.0	15.0
Aroclor-1260	1.1	1.0	LINR	10.0	15.0
(2)	1.1	1.0	LINR	10.0	15.0
(3)	1.1	1.0	LINR	10.0	15.0
Tetrachloro-m-xylene	0.020	0.020	AVRG	0.0	15.0
Decachlorobiphenyl	0.025	0.020	AVRG	25.0	15.0 <-

FORM VII PCB

000748

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E1 Calibration Date: 11/22/02 Time: 1456

Lab File ID: E1D8003F Init. Calib. Date(s): 11/19/02 11/20/02

Init. Calib. Times: 1615 0400

GC Column: RTXCLPPEST 2 ID: 0.53 (mm)

COMPOUND	RRF	RRF1	MIN RRF	%D	MAX %D
Aroclor-1254	20191.760	20996.000	0.01	4.0	15.0
(2)	12907.680	13491.000	0.01	4.5	15.0
(3)	16186.360	16972.000	0.01	4.8	15.0
Tetrachloro-m-xylene	391212.00	399950.00	0.01	2.2	15.0
Decachlorobiphenyl	417088.00	395150.00	0.01	5.2	15.0

FORM VII PCB

000749

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E1 Calibration Date: 11/22/02 Time: 1456

Lab File ID: E1D8003R Init. Calib. Date(s): 11/19/02 11/20/02

Init. Calib. Times: 1615 0400

GC Column: RTXCLPPEST ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	CAL1 AMOUNT	CURVE	%D	MAX %d
Aroclor-1254	1.0	1.0	LINR	0.0	15.0
(2)	1.0	1.0	LINR	0.0	15.0
(3)	1.0	1.0	LINR	0.0	15.0
Tetrachloro-m-xylene	0.017	0.020	AVRG	15.0	15.0
Decachlorobiphenyl	0.021	0.020	AVRG	5.0	15.0

FORM VII PCB

000750

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E1 Calibration Date: 11/22/02 Time: 2311

Lab File ID: E1D8016F Init. Calib. Date(s): 11/19/02 11/20/02

Init. Calib. Times: 1615 0400

GC Column: RTXCLPPEST 2 ID: 0.53 (mm)

COMPOUND	RRF	RRF1	MIN RRF	%D	MAX %D
Aroclor-1254	20191.760	21628.000	0.01	7.1	15.0
(2)	12907.680	13979.000	0.01	8.3	15.0
(3)	16186.360	17637.000	0.01	9.0	15.0
Tetrachloro-m-xylene	391212.00	407000.00	0.01	4.0	15.0
Decachlorobiphenyl	417088.00	412900.00	0.01	1.0	15.0

FORM VII PCB

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E1 Calibration Date: 11/22/02 Time: 2311

Lab File ID: E1D8016R Init. Calib. Date(s): 11/19/02 11/20/02

Init. Calib. Times: 1615 0400

GC Column: RTXCLPPEST ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	CAL1 AMOUNT	CURVE	%D	MAX %d
Aroclor-1254	1.1	1.0	LINR	10.0	15.0
(2)	1.1	1.0	LINR	10.0	15.0
(3)	1.1	1.0	LINR	10.0	15.0
Tetrachloro-m-xylene	0.018	0.020	AVRG	10.0	15.0
Decachlorobiphenyl	0.021	0.020	AVRG	5.0	15.0

FORM VII PCB

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E1 Calibration Date: 11/22/02 Time: 2346

Lab File ID: E1D8017F Init. Calib. Date(s): 11/20/02 11/20/02

Init. Calib. Times: 0139 0400

GC Column: RTXCLPPEST 2 ID: 0.53 (mm)

COMPOUND	RRF	RRF1	MIN RRF	%D	MAX %D	
Aroclor-1016	7211.960	8013.000	0.01	11.1	15.0	
(2)	18789.600	22069.000	0.01	17.4	15.0	<-
(3)	7265.200	8680.000	0.01	19.5	15.0	<-
Aroclor-1260	20733.200	23601.000	0.01	13.8	15.0	
(2)	29807.400	34409.000	0.01	15.4	15.0	<-
(3)	19664.280	22726.000	0.01	15.6	15.0	<-
Tetrachloro-m-xylene	391212.00	455100.00	0.01	16.3	15.0	<-
Decachlorobiphenyl	417088.00	471250.00	0.01	13.0	15.0	

FORM VII PCB

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E1 Calibration Date: 11/22/02 Time: 2346

Lab File ID: E1D8017R Init. Calib. Date(s): 11/20/02 11/20/02

Init. Calib. Times: 0139 0400

GC Column: RTXCLPPEST ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	CAL1 AMOUNT	CURVE	%D	MAX %d	
Aroclor-1016	1.1	1.0	LINR	10.0	15.0	
(2)	1.1	1.0	LINR	10.0	15.0	
(3)	1.1	1.0	LINR	10.0	15.0	
Aroclor-1260	1.2	1.0	LINR	20.0	15.0	<-
(2)	1.2	1.0	LINR	20.0	15.0	<-
(3)	1.2	1.0	LINR	20.0	15.0	<-
Tetrachloro-m-xylene	0.022	0.020	AVRG	10.0	15.0	
Decachlorobiphenyl	0.026	0.020	AVRG	30.0	15.0	<-

FORM VII PCB

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: H1 Calibration Date: 11/23/02 Time: 0801

Lab File ID: H1D8031F Init. Calib. Date(s): 11/20/02 11/20/02

Init. Calib. Times: 0139 0400

GC Column: RTXCLPPEST 2 ID: 0.53 (mm)

COMPOUND	RRF	RRF1	MIN RRF	%D	MAX %D	
Aroclor-1016	7211.960	8091.000	0.01	12.2	15.0	
(2)	18789.600	22370.000	0.01	19.0	15.0	<-
(3)	7265.200	8692.000	0.01	19.6	15.0	<-
Aroclor-1260	20733.200	23351.000	0.01	12.6	15.0	
(2)	29807.400	34245.000	0.01	14.9	15.0	
(3)	19664.280	22568.000	0.01	14.8	15.0	
Tetrachloro-m-xylene	391212.00	457050.00	0.01	16.8	15.0	<-
Decachlorobiphenyl	417088.00	470950.00	0.01	12.9	15.0	

FORM VII PCB

000755

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: H1 Calibration Date: 11/23/02 Time: 0801

Lab File ID: H1D8031R Init. Calib. Date(s): 11/20/02 11/20/02

Init. Calib. Times: 0139 0400

GC Column: RTXCLPPEST ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	CAL1 AMOUNT	CURVE	%D	MAX %d	
Aroclor-1016	1.1	1.0	LINR	10.0	15.0	
(2)	1.1	1.0	LINR	10.0	15.0	
(3)	1.1	1.0	LINR	10.0	15.0	
Aroclor-1260	1.2	1.0	LINR	20.0	15.0	<-
(2)	1.2	1.0	LINR	20.0	15.0	<-
(3)	1.2	1.0	LINR	20.0	15.0	<-
Tetrachloro-m-xylene	0.022	0.020	AVRG	10.0	15.0	
Decachlorobiphenyl	0.026	0.020	AVRG	30.0	15.0	<-

FORM VII PCB

000756

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date: 11/23/02 Time: 0559

Lab File ID: E3D8192F Init. Calib. Date(s): 11/12/02 11/12/02

Init. Calib. Times: 0345 0618

GC Column: DB-1701 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	CAL1 AMOUNT	CURVE	%D	MAX %d
Aroclor-1016	1.1	1.0	LINR	10.0	15.0
(2)	1.1	1.0	LINR	10.0	15.0
(3)	1.1	1.0	LINR	10.0	15.0
Aroclor-1260	1.1	1.0	LINR	10.0	15.0
(2)	1.1	1.0	LINR	10.0	15.0
(3)	1.1	1.0	LINR	10.0	15.0
Tetrachloro-m-xylene	0.018	0.020	AVRG	10.0	15.0
Decachlorobiphenyl	0.019	0.020	AVRG	5.0	15.0

FORM VII PCB

000757

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date: 11/23/02 Time: 0559

Lab File ID: E3D8192R Init. Calib. Date(s): 11/12/02 11/12/02

Init. Calib. Times: 0345 0618

GC Column: DB-608 ID: 0.53 (mm)

COMPOUND	RRF	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	5574.320	5132.000	0.01	7.9	15.0
(2)	17600.400	16496.000	0.01	6.3	15.0
(3)	7022.320	6479.000	0.01	7.7	15.0
Aroclor-1260	10512.040	9833.000	0.01	6.4	15.0
(2)	9502.320	8777.000	0.01	7.6	15.0
(3)	16793.520	15478.000	0.01	7.8	15.0
Tetrachloro-m-xylene	356256.00	320750.00	0.01	10.0	15.0
Decachlorobiphenyl	200068.00	197250.00	0.01	1.4	15.0

FORM VII PCB

000758

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date: 11/23/02 Time: 1612

Lab File ID: E3D8208F Init. Calib. Date(s): 11/12/02 11/12/02

Init. Calib. Times: 0345 0618

GC Column: DB-1701 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	CAL1 AMOUNT	CURVE	%D	MAX %d
Aroclor-1016	1.1	1.0	LINR	10.0	15.0
(2)	1.1	1.0	LINR	10.0	15.0
(3)	1.1	1.0	LINR	10.0	15.0
Aroclor-1260	1.1	1.0	LINR	10.0	15.0
(2)	1.1	1.0	LINR	10.0	15.0
(3)	1.1	1.0	LINR	10.0	15.0
Tetrachloro-m-xylene	0.018	0.020	AVRG	10.0	15.0
Decachlorobiphenyl	0.019	0.020	AVRG	5.0	15.0

FORM VII PCB

000759

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date: 11/23/02 Time: 1612

Lab File ID: E3D8208R Init. Calib. Date(s): 11/12/02 11/12/02

Init. Calib. Times: 0345 0618

GC Column: DB-608 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	5574.320	4995.000	0.01	10.4	15.0
(2)	17600.400	15985.000	0.01	9.2	15.0
(3)	7022.320	6246.000	0.01	11.0	15.0
Aroclor-1260	10512.040	9350.000	0.01	11.0	15.0
(2)	9502.320	8480.000	0.01	10.8	15.0
(3)	16793.520	14983.000	0.01	10.8	15.0
Tetrachloro-m-xylene	356256.00	315150.00	0.01	11.5	15.0
Decachlorobiphenyl	200068.00	190700.00	0.01	4.7	15.0

FORM VII PCB

000760

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date: 11/23/02 Time: 2118

Lab File ID: E3D8216F Init. Calib. Date(s): 11/12/02 11/12/02

Init. Calib. Times: 0345 0618

GC Column: DB-1701 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	CAL1 AMOUNT	CURVE	%D	MAX %d
Aroclor-1016	1.0	1.0	LINR	0.0	15.0
(2)	1.0	1.0	LINR	0.0	15.0
(3)	1.0	1.0	LINR	0.0	15.0
Aroclor-1260	1.0	1.0	LINR	0.0	15.0
(2)	1.0	1.0	LINR	0.0	15.0
(3)	1.0	1.0	LINR	0.0	15.0
Tetrachloro-m-xylene	0.017	0.020	AVRG	15.0	15.0
Decachlorobiphenyl	0.019	0.020	AVRG	5.0	15.0

FORM VII PCB

000761

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date: 11/23/02 Time: 2118

Lab File ID: E3D8216R Init. Calib. Date(s): 11/12/02 11/12/02

Init. Calib. Times: 0345 0618

GC Column: DB-608 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF1	MIN RRP	%D	MAX %D
Aroclor-1016	5574.320	4868.000	0.01	12.7	15.0
(2)	17600.400	15739.000	0.01	10.6	15.0
(3)	7022.320	6149.000	0.01	12.4	15.0
Aroclor-1260	10512.040	9253.000	0.01	12.0	15.0
(2)	9502.320	8371.000	0.01	11.9	15.0
(3)	16793.520	14943.000	0.01	11.0	15.0
Tetrachloro-m-xylene	356256.00	309800.00	0.01	13.0	15.0
Decachlorobiphenyl	200068.00	188750.00	0.01	5.6	15.0

FORM VII PCB

000762

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

GC Column: RTXCLPPEST 2 ID: 0.53 (mm) Init. Calib. Date(s): 11/19/02 11/20/02

Instrument ID: E1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.88 DCB: 24.59

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR1232BL3	AR1232BL3	11/19/02	1615	7.89	24.60
02	AR1242BL1	AR1242BL1	11/19/02	1650	7.89	24.60
03	AR1242BL2	AR1242BL2	11/19/02	1726	7.89	24.60
04	AR1242BL3	AR1242BL3	11/19/02	1801	7.88	24.59
05	AR1242BL4	AR1242BL4	11/19/02	1836	7.88	24.59
06	AR1242BL5	AR1242BL5	11/19/02	1912	7.88	24.59
07	AR1248BL1	AR1248BL1	11/19/02	1947	7.89	24.60
08	AR1248BL2	AR1248BL2	11/19/02	2022	7.89	24.60
09	AR1248BL3	AR1248BL3	11/19/02	2058	7.89	24.60
10	AR1248BL4	AR1248BL4	11/19/02	2133	7.89	24.59
11	AR1248BL5	AR1248BL5	11/19/02	2208	7.88	24.59
12	AR2154BL1	AR2154BL1	11/19/02	2243	7.89	24.60
13	AR2154BL2	AR2154BL2	11/19/02	2319	7.89	24.60
14	AR2154BL3	AR2154BL3	11/19/02	2354	7.88	24.60
15	AR2154BL4	AR2154BL4	11/20/02	0029	7.88	24.60
16	AR2154BL5	AR2154BL5	11/20/02	0104	7.88	24.60
17	AR1660BL1	AR1660BL1	11/20/02	0139	7.89	24.60
18	AR1660BL2	AR1660BL2	11/20/02	0215	7.89	24.60
19	AR1660BL3	AR1660BL3	11/20/02	0250	7.89	24.60
20	AR1660BL4	AR1660BL4	11/20/02	0325	7.88	24.59
21	AR1660BL5	AR1660BL5	11/20/02	0400	7.88	24.59
22	BBLK1A	MB-4149	11/20/02	1025	7.92	24.61
23	B1ALCS	LCS-4149	11/20/02	1101	7.89	24.60
24	AR1660BA	AR1660BA	11/20/02	1826	7.89	24.60
25	AR1660BF	AR1660BF	11/22/02	1405	7.89	24.60
26	AR2124BF	AR1254BF	11/22/02	1456	7.91	24.61
27	BBLK1Z	MB-4254	11/22/02	1607	7.88	24.59
28	B1ZLCS	LCS-4254	11/22/02	1642	7.88	24.59
29	12TB1524	A1627-02C	11/22/02	1753	7.88	24.59
30	13SSTB3435	A1627-29C	11/22/02	1828	7.88	24.59
31	13SSTB2413	A1627-30C	11/22/02	1904	7.88	24.59
32	13SSTB3124	A1627-31C	11/22/02	1939	7.88	24.59

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

GC Column: RTXCLPPEST 2 ID: 0.53 (mm) Init. Calib. Date(s): 11/19/02 11/20/02

Instrument ID: E1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.88 DCB: 24.59

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	2SSTB4724	A1627-42A	11/22/02	2015	7.88	24.59
02	2SSTB4802	A1627-43A	11/22/02	2050	7.88	24.59
03	AR2124BG	AR1254BG	11/22/02	2311	7.88	24.59
04	AR1660BG	AR1660BG	11/22/02	2346	7.88	24.59
05	2SSTB4246	A1627-50A	11/23/02	0057	7.88	24.59
06	2SSD4A46	A1627-54A	11/23/02	0132	7.88	24.59
07	2SSD4B46	A1627-55A	11/23/02	0208	7.88	24.59
08	2SSTB4302	A1627-56A	11/23/02	0243	7.88	24.59
09	2SSTB4402	A1627-57A	11/23/02	0318	7.88	24.59
10	2SSTB4524	A1627-58A	11/23/02	0353	7.88	24.59
11	2SSTB4602	A1627-59A	11/23/02	0429	7.88	24.59
12	AR1660BH	AR1660BH	11/23/02	0801	7.88	24.59
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

GC Column: RTXCLPPEST ID: 0.53 (mm) Init. Calib. Date(s): 11/19/02 11/20/02

Instrument ID: E1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.64 DCB: 21.92

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR1232BL3	AR1232BL3	11/19/02	1615	6.64	21.93
02	AR1242BL1	AR1242BL1	11/19/02	1650	6.64	21.93
03	AR1242BL2	AR1242BL2	11/19/02	1726	6.64	21.93
04	AR1242BL3	AR1242BL3	11/19/02	1801	6.64	21.93
05	AR1242BL4	AR1242BL4	11/19/02	1836	6.64	21.93
06	AR1242BL5	AR1242BL5	11/19/02	1912	6.64	21.93
07	AR1248BL1	AR1248BL1	11/19/02	1947	6.64	21.93
08	AR1248BL2	AR1248BL2	11/19/02	2022	6.64	21.93
09	AR1248BL3	AR1248BL3	11/19/02	2058	6.64	21.93
10	AR1248BL4	AR1248BL4	11/19/02	2133	6.64	21.93
11	AR1248BL5	AR1248BL5	11/19/02	2208	6.64	21.93
12	AR2154BL1	AR2154BL1	11/19/02	2243	6.64	21.93
13	AR2154BL2	AR2154BL2	11/19/02	2319	6.64	21.93
14	AR2154BL3	AR2154BL3	11/19/02	2354	6.64	21.93
15	AR2154BL4	AR2154BL4	11/20/02	0029	6.64	21.93
16	AR2154BL5	AR2154BL5	11/20/02	0104	6.64	21.93
17	AR1660BL1	AR1660BL1	11/20/02	0139	6.64	21.94
18	AR1660BL2	AR1660BL2	11/20/02	0215	6.64	21.93
19	AR1660BL3	AR1660BL3	11/20/02	0250	6.64	21.93
20	*AR1660BL4*	*AR1660BL4*	*11/20/02*	*0325*	*6.64*	*21.93*
21	AR1660BL5	AR1660BL5	11/20/02	0400	6.64	21.92
22	BBLK1A	MB-4149	11/20/02	1025	6.65	21.94
23	B1ALCS	LCS-4149	11/20/02	1101	6.65	21.93
24	AR1660BA	AR1660BA	11/20/02	1826	6.64	21.93
25	AR1660BF	AR1660BF	11/22/02	1405	6.64	21.92
26	AR2124BF	AR1254BF	11/22/02	1456	6.64	21.93
27	BBLK1Z	MB-4254	11/22/02	1607	6.64	21.92
28	B1ZLCS	LCS-4254	11/22/02	1642	6.64	21.91
29	12TB1524	A1627-02C	11/22/02	1753	6.64	21.91
30	13SSTB3435	A1627-29C	11/22/02	1828	6.63	21.91
31	13SSTB2413	A1627-30C	11/22/02	1904	6.64	21.91
32	13SSTB3124	A1627-31C	11/22/02	1939	6.64	21.91

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

GC Column: RTXCLPPEST ID: 0.53 (mm) Init. Calib. Date(s): 11/19/02 11/20/02

Instrument ID: E1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.64 DCB: 21.92

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	2SSTB4724	A1627-42A	11/22/02	2015	6.64	21.91
02	2SSTB4802	A1627-43A	11/22/02	2050	6.64	21.91
03	AR2124BG	AR1254BG	11/22/02	2311	6.64	21.92
04	AR1660BG	AR1660BG	11/22/02	2346	6.64	21.92
05	2SSTB4246	A1627-50A	11/23/02	0057	6.64	21.91
06	2SSD4A46	A1627-54A	11/23/02	0132	6.64	21.91
07	2SSD4B46	A1627-55A	11/23/02	0208	6.64	21.91
08	2SSTB4302	A1627-56A	11/23/02	0243	6.64	21.91
09	2SSTB4402	A1627-57A	11/23/02	0318	6.64	21.91
10	2SSTB4524	A1627-58A	11/23/02	0353	6.64	21.91
11	2SSTB4602	A1627-59A	11/23/02	0429	6.64	21.91
12	AR1660BH	AR1660BH	11/23/02	0801	6.64	21.92
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

GC Column: DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 11/11/02 11/12/02

Instrument ID: E3

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.03 DCB: 25.57

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR1232AL3	AR1232AL3	11/11/02	1732	3.03	25.55
02	AR1242AL1	AR1242AL1	11/11/02	1810	3.03	25.56
03	AR1242AL2	AR1242AL2	11/11/02	1849	3.03	25.56
04	AR1242AL3	AR1242AL3	11/11/02	1927	3.03	25.55
05	AR1242AL4	AR1242AL4	11/11/02	2005	3.03	25.55
06	AR1242AL5	AR1242AL5	11/11/02	2043	3.03	25.55
07	AR1248AL1	AR1248AL1	11/11/02	2122	3.02	25.56
08	AR1248AL2	AR1248AL2	11/11/02	2200	3.03	25.57
09	AR1248AL3	AR1248AL3	11/11/02	2238	3.03	25.56
10	AR1248AL4	AR1248AL4	11/11/02	2317	3.03	25.57
11	AR1248AL5	AR1248AL5	11/11/02	2355	3.03	25.57
12	AR2154AL1	AR2154AL1	11/12/02	0033	3.03	25.58
13	AR2154AL2	AR2154AL2	11/12/02	0112	3.03	25.58
14	AR2154AL3	AR2154AL3	11/12/02	0150	3.03	25.57
15	AR2154AL4	AR2154AL4	11/12/02	0228	3.03	25.58
16	AR2154AL5	AR2154AL5	11/12/02	0307	3.03	25.58
17	AR1660AL1	AR1660AL1	11/12/02	0345	3.03	25.58
18	AR1660AL2	AR1660AL2	11/12/02	0423	3.03	25.58
19	AR1660AL3	AR1660AL3	11/12/02	0501	3.04	25.58
20	AR1660AL4	AR1660AL4	11/12/02	0540	3.04	25.57
21	AR1660AL5	AR1660AL5	11/12/02	0618	3.03	25.57
22	AR1660AJ	AR1660AJ	11/23/02	0559	3.04	25.59
23	BBLK3J	MB-4333	11/23/02	0716	3.04	25.60
24	B3JLCS	LCS-4333	11/23/02	0754	3.03	25.61
25	B3JLCSD	LCSD-4333	11/23/02	0833	3.03	25.62
26	BBLK3K	MB-4280	11/23/02	0911	3.03	25.61
27	B3KLCS	LCS-4280	11/23/02	0949	3.04	25.62
28	B3KLCSD	LCSD-4280	11/23/02	1027	3.04	25.61
29	AOC112E1	A1627-07D	11/23/02	1106	3.04	25.61
30	AOC2E3	A1627-13D	11/23/02	1144	3.04	25.60
31	AOC13E2	A1627-25D	11/23/02	1222	3.03	25.60
32	AOC2E4	A1627-51D	11/23/02	1301	3.03	25.60

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

GC Column: DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 11/11/02 11/12/02

Instrument ID: E3

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.03 DCB: 25.57

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR1660AK	AR1660AK	11/23/02	1612	3.03	25.60
02	AOC2BB1	A1627-36C	11/23/02	1729	3.03	25.60
03	AOC2BB2	A1627-37C	11/23/02	1807	3.03	25.61
04	AR1660AL	AR1660AL	11/23/02	2118	3.03	25.59
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

GC Column: DB-608 ID: 0.53 (mm) Init. Calib. Date(s): 11/11/02 11/12/02

Instrument ID: E3

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.02 DCB: 27.37

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR1232AL3	AR1232AL3	11/11/02	1732	3.02	27.33
02	AR1242AL1	AR1242AL1	11/11/02	1810	3.03	27.34
03	AR1242AL2	AR1242AL2	11/11/02	1849	3.03	27.34
04	AR1242AL3	AR1242AL3	11/11/02	1927	3.02	27.33
05	AR1242AL4	AR1242AL4	11/11/02	2005	3.02	27.34
06	AR1242AL5	AR1242AL5	11/11/02	2043	3.02	27.34
07	AR1248AL1	AR1248AL1	11/11/02	2122	3.02	27.34
08	AR1248AL2	AR1248AL2	11/11/02	2200	3.02	27.34
09	AR1248AL3	AR1248AL3	11/11/02	2238	3.02	27.35
10	AR1248AL4	AR1248AL4	11/11/02	2317	3.02	27.35
11	AR1248AL5	AR1248AL5	11/11/02	2355	3.02	27.35
12	AR2154AL1	AR2154AL1	11/12/02	0033	3.03	27.36
13	AR2154AL2	AR2154AL2	11/12/02	0112	3.03	27.37
14	AR2154AL3	AR2154AL3	11/12/02	0150	3.03	27.35
15	AR2154AL4	AR2154AL4	11/12/02	0228	3.02	27.36
16	AR2154AL5	AR2154AL5	11/12/02	0307	3.02	27.37
17	AR1660AL1	AR1660AL1	11/12/02	0345	3.03	27.37
18	AR1660AL2	AR1660AL2	11/12/02	0423	3.03	27.36
19	AR1660AL3	AR1660AL3	11/12/02	0501	3.03	27.36
20	AR1660AL4	AR1660AL4	11/12/02	0540	3.03	27.36
21	AR1660AL5	AR1660AL5	11/12/02	0618	3.03	27.36
22	AR1660AJ	AR1660AJ	11/23/02	0559	3.03	27.36
23	BBLK3J	MB-4333	11/23/02	0716	3.03	27.37
24	B3JLCS	LCS-4333	11/23/02	0754	3.03	27.39
25	B3JLCSD	LCSD-4333	11/23/02	0833	3.03	27.40
26	BBLK3K	MB-4280	11/23/02	0911	3.03	27.39
27	B3KLCS	LCS-4280	11/23/02	0949	3.04	27.40
28	B3KLCSD	LCSD-4280	11/23/02	1027	3.03	27.39
29	AOC112E1	A1627-07D	11/23/02	1106	3.03	27.39
30	AOC2E3	A1627-13D	11/23/02	1144	3.03	27.38
31	AOC13E2	A1627-25D	11/23/02	1222	3.03	27.38
32	AOC2E4	A1627-51D	11/23/02	1301	3.03	27.38

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

GC Column: DB-608 ID: 0.53 (mm) Init. Calib. Date(s): 11/11/02 11/12/02

Instrument ID: E3

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.02 DCB: 27.37

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR1660AK	AR1660AK	11/23/02	1612	3.03	27.38
02	AOC2BB1	A1627-36C	11/23/02	1729	3.03	27.38
03	AOC2BB2	A1627-37C	11/23/02	1807	3.03	27.38
04	AR1660AL	AR1660AL	11/23/02	2118	3.03	27.37
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 10
PCB IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.: 13SSTB3124

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab Sample ID: A1627-31C Date(s) Analyzed: 11/22/02 11/22/02

Instrument ID (1): E1 Instrument ID (2): E1

GC Column(1): RTXCLPPEST 2 ID: 0.53(mm) GC Column(2): RTXCLPPEST ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1254	1	16.85	16.77	16.91	32		
	2	17.48	17.40	17.54	29		
	3	18.89	18.81	18.95	67		
COLUMN 1	4						
	5					43	
	1	14.65	14.58	14.72	76		
	2	15.89	15.82	15.96	72		
	3	16.61	16.55	16.69	96		
COLUMN 2	4						
	5					81	61.3
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes.

FORM 10
PCB IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.: B1ALCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab Sample ID: LCS-4149 Date(s) Analyzed: 11/20/02 11/20/02

Instrument ID (1): E1 Instrument ID (2): E1

GC Column(1): RTXCLPPEST 2 ID: 0.53(mm) GC Column(2): RTXCLPPEST ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1016	1	9.58	9.50	9.64	340		
	2	12.19	12.11	12.25	360		
	3	14.26	14.17	14.31	350		
COLUMN 1	4						
	5					350	
	1	7.87	7.80	7.94	340		
	2	8.95	8.87	9.01	350		
	3	11.85	11.76	11.90	320		
COLUMN 2	4						
	5					340	2.9
	1	18.89	18.81	18.95	340		
Aroclor-1260	2	20.59	20.51	20.65	350		
	3	21.53	21.45	21.59	350		
COLUMN 1	4						
	5					340	
	1	*15.91*	*15.82*	*15.96*	*340*		
	2	16.63	16.54	16.68	330		
	3	18.39	18.30	18.44	330		
COLUMN 2	4						
	5					330	3.0
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes.

FORM 10
PCB IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.: B1ZLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab Sample ID: LCS-4254 Date(s) Analyzed: 11/22/02 11/22/02

Instrument ID (1): E1 Instrument ID (2): R1

GC Column(1): RTXCLPPEST 2 ID: 0.53(mm) GC Column(2): RTXCLPPEST ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1016	1	9.57	9.50	9.64	400		
	2	12.19	12.11	12.25	420		
	3	14.25	14.17	14.31	430		
COLUMN 1	4						
	5					420	
	1	7.86	7.80	7.94	400		
	2	8.94	8.87	9.01	420		
	3	11.83	11.76	11.90	410		
COLUMN 2	4						
	5					410	2.4
	1	18.88	18.81	18.95	410		
Aroclor-1260	2	20.58	20.51	20.65	410		
	3	21.52	21.45	21.59	410		
COLUMN 1	4						
	5					410	
	1	15.89	15.82	15.96	430		
	2	16.62	16.54	16.68	420		
	3	18.37	18.30	18.44	430		
COLUMN 2	4						
	5					430	4.8
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes.

FORM 10
PCB IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.: B3JLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab Sample ID: LCS-4333 Date(s) Analyzed: 11/23/02 11/23/02

Instrument ID (1): E3 Instrument ID (2): E3

GC Column(1): DB-1701 ID: 0.53(mm) GC Column(2): DB-608 ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1016	1	7.23	7.16	7.30	2.7		
	2	6.83	6.75	6.89	2.7		
	3	7.97	7.89	8.03	2.7		
COLUMN 1	4						
	5					2.7	
	1	9.23	9.15	9.29	2.2		
	2	6.96	6.88	7.02	2.2		
	3	7.50	7.42	7.56	2.2		
COLUMN 2	4						
	5					2.2	20.4
	1	14.31	14.22	14.36	2.7		
Aroclor-1260	2	18.91	18.81	18.95	2.6		
	3	20.59	20.48	20.62	2.6		
COLUMN 1	4						
	5					2.6	
	1	14.46	14.36	14.50	2.2		
	2	16.45	16.35	16.49	2.2		
	3	19.18	19.08	19.22	2.2		
COLUMN 2	4						
	5					2.2	16.7
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes.

FORM 10
PCB IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.: B3JLCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab Sample ID: LCSD-4333 Date(s) Analyzed: 11/23/02 11/23/02

Instrument ID (1): E3 Instrument ID (2): E3

GC Column(1): DB-1701 ID: 0.53(mm) GC Column(2): DB-608 ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	7.23	7.16	7.30	3.2		
Aroclor-1016	2	6.83	6.75	6.89	3.1		
	3	7.97	7.89	8.03	3.2		
COLUMN 1	4						
	5					3.1	
	1	9.23	9.15	9.29	2.5		
	2	6.96	6.88	7.02	2.5		
	3	7.50	7.42	7.56	2.5		
COLUMN 2	4						
	5					2.5	21.4
	1	14.30	14.22	14.36	3.1		
Aroclor-1260	2	18.90	18.81	18.95	3.0		
	3	20.59	20.48	20.62	3.0		
COLUMN 1	4						
	5					3.1	
	1	14.45	14.36	14.50	2.5		
	2	16.45	16.35	16.49	2.5		
	3	19.17	19.08	19.22	2.5		
COLUMN 2	4						
	5					2.5	21.4
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes.

FORM 10
PCB IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.: B3KLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab Sample ID: LCS-4280 Date(s) Analyzed: 11/23/02 11/23/02

Instrument ID (1): E3 Instrument ID (2): E3

GC Column(1): DB-1701 ID: 0.53(mm) GC Column(2): DB-608 ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	7.24	7.16	7.30	10		
Aroclor-1016	2	6.83	6.75	6.89	10		
	3	7.98	7.89	8.03	10		
COLUMN 1	4						
	5					10	
	1	9.24	9.15	9.29	8.4		
	2	6.97	6.88	7.02	8.5		
	3	7.51	7.42	7.56	8.4		
COLUMN 2	4						
	5					8.4	17.4
	1	14.31	14.22	14.36	9.4		
Aroclor-1260	2	18.91	18.81	18.95	8.9		
	3	20.59	20.48	20.62	8.8		
COLUMN 1	4						
	5					9.0	
	1	14.46	14.36	14.50	8.1		
	2	16.45	16.35	16.49	7.8		
	3	19.18	19.08	19.22	7.6		
COLUMN 2	4						
	5					7.8	14.3
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes.

FORM 10
PCB IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.: B3KLCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

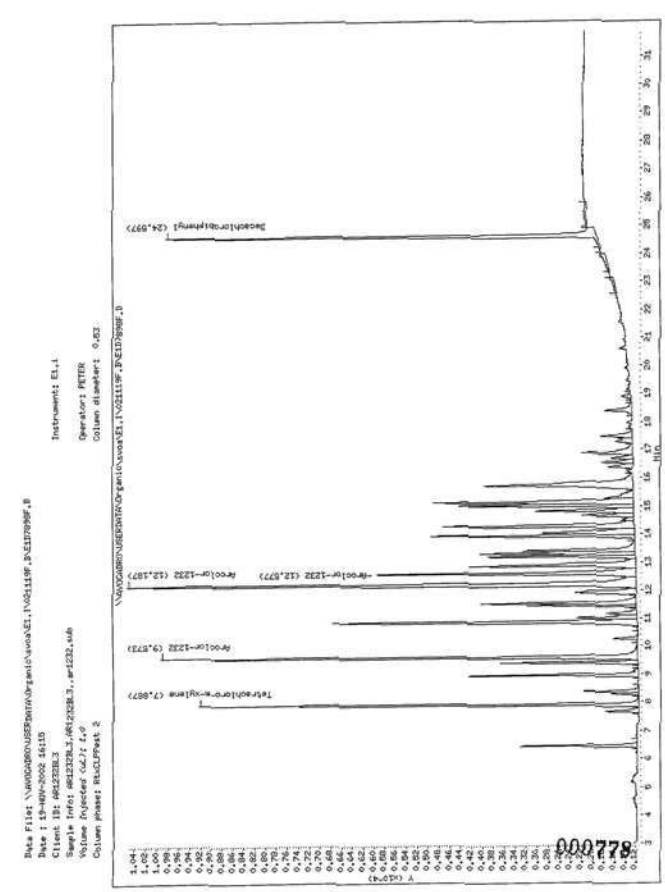
Lab Sample ID: LCSD-4280 Date(s) Analyzed: 11/23/02 11/23/02

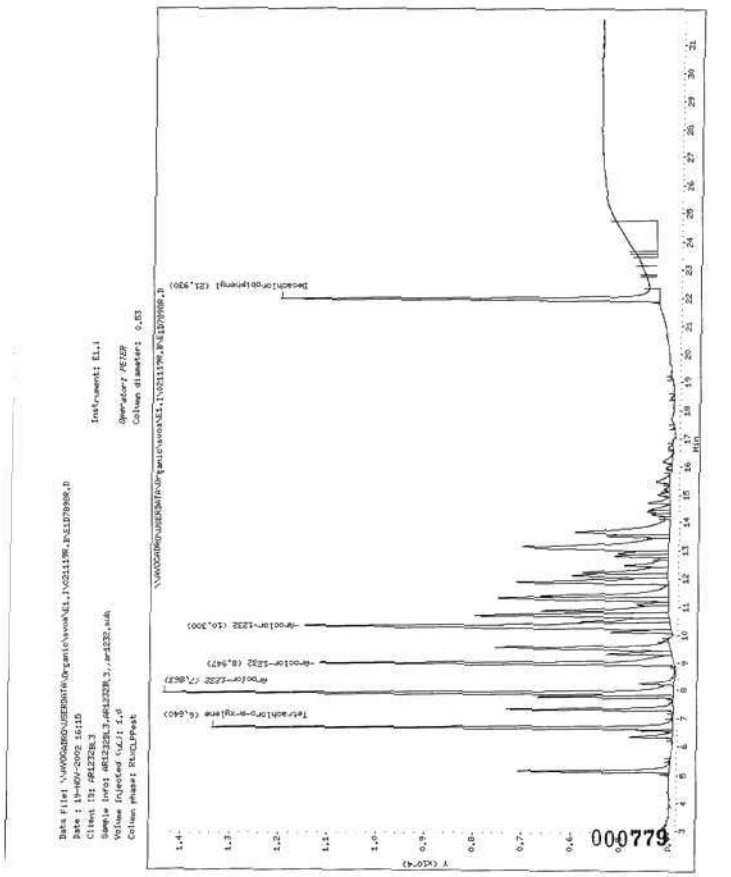
Instrument ID (1): E3 Instrument ID (2): E3

GC Column(1): DB-1701 ID: 0.53(mm) GC Column(2): DB-608 ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	7.24	7.16	7.30	8.2		
Aroclor-1016	2	6.83	6.75	6.89	8.3		
	3	7.98	7.89	8.03	8.3		
COLUMN 1	4						
	5					8.3	
	1	9.24	9.15	9.29	7.2		
	2	6.97	6.88	7.02	7.2		
	3	7.51	7.42	7.56	7.2		
COLUMN 2	4						
	5					7.2	14.2
	1	14.31	14.22	14.36	7.8		
Aroclor-1260	2	18.91	18.81	18.95	7.5		
	3	20.58	20.48	20.62	7.5		
COLUMN 1	4						
	5					7.6	
	1	14.46	14.36	14.50	6.9		
	2	16.45	16.35	16.49	6.7		
	3	19.18	19.08	19.22	6.5		
COLUMN 2	4						
	5					6.7	12.6
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes.





Data File: E1D7898F.D
Report Date: 21-Nov-2002 16:20

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1D7898F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1D7898R.D
Inj Date : 19-NOV-2002 16:15
Sample Info: AR1232BL3,AR1232BL3,,ar1232.sub
Misc Info : 1,3,,1
Cal Date : 21-NOV-2002 10:22
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1_PCB_R.m
Sub List #1 : ar1232.sub
Sub List #2 : ar1232.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

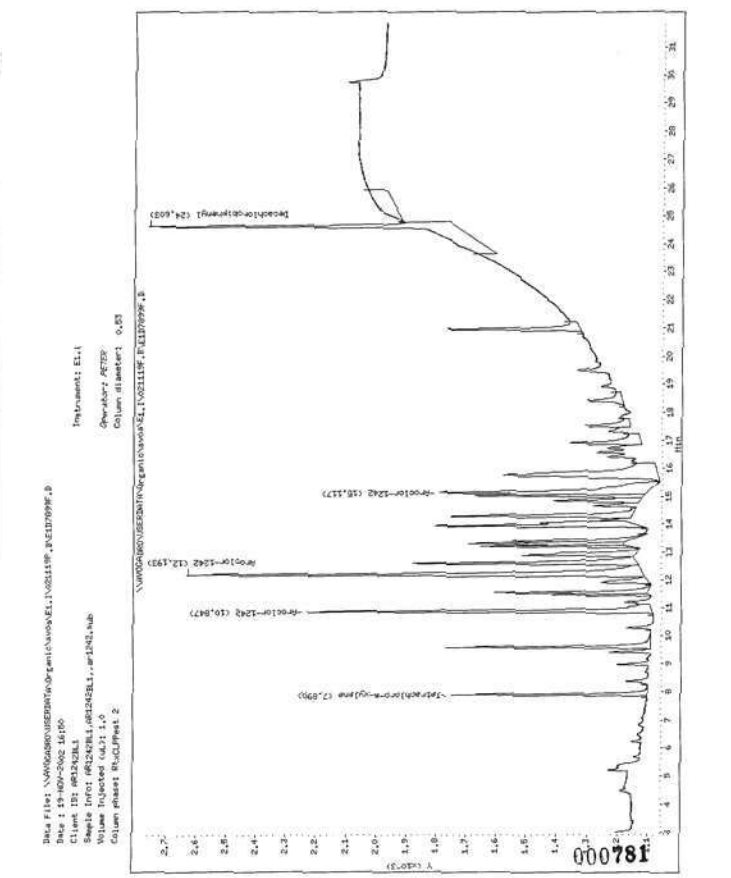
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

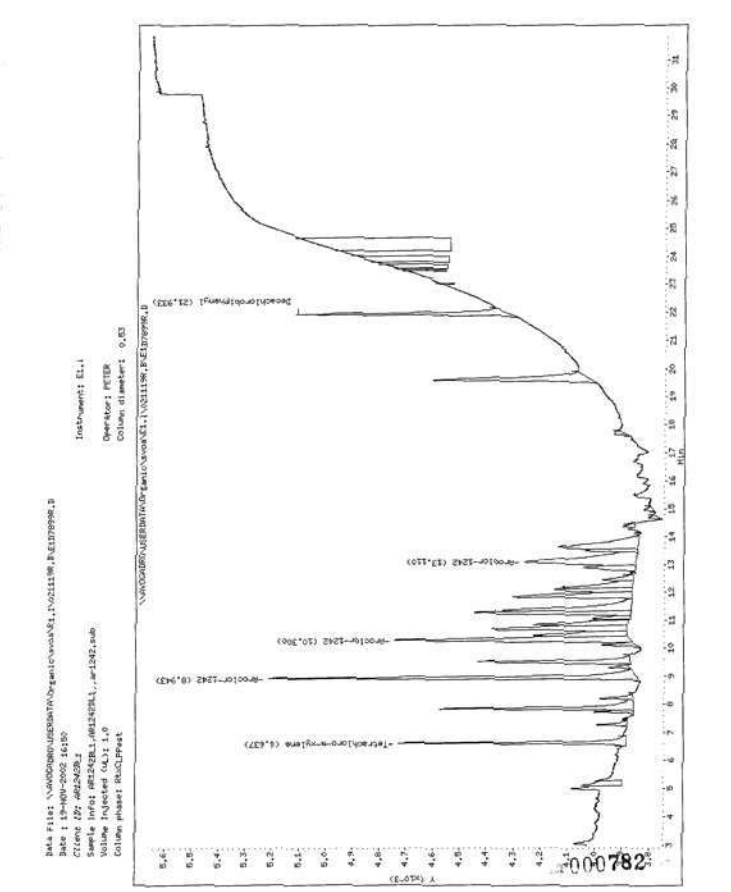
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.887	6.640	8033	8438	0.021	0.021		150.00(a)
Aroclor-1232	9.573	7.863	8740	10435	1.0	1.0	80.00 - 120.00	100.00
	11.187	8.947	9348	7251	1.0	1.0	84.72 - 126.72	106.72
	12.577	10.300	4795	7478	1.0	1.0	54.28 - 74.28	94.28
			Average of Peak Amounts =		1.0	1.0		
Decachlorobiphenyl	24.597	21.930	7516	7749	0.019	0.020		107.00(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

000780





Data File: E1D7899F.D
Report Date: 21-Nov-2002 16:20

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1D7899F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1D7899R.D
Inj Date : 19-NOV-2002 16:50
Sample Info: AR1242BL1,AR1242BL1,,ar1242.sub
Misc Info : 1,1,,1
Cal Date : 21-NOV-2002 10:22
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1_PCB_R.m
Sub List #1 : ar1242.sub
Sub List #2 : ar1242.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

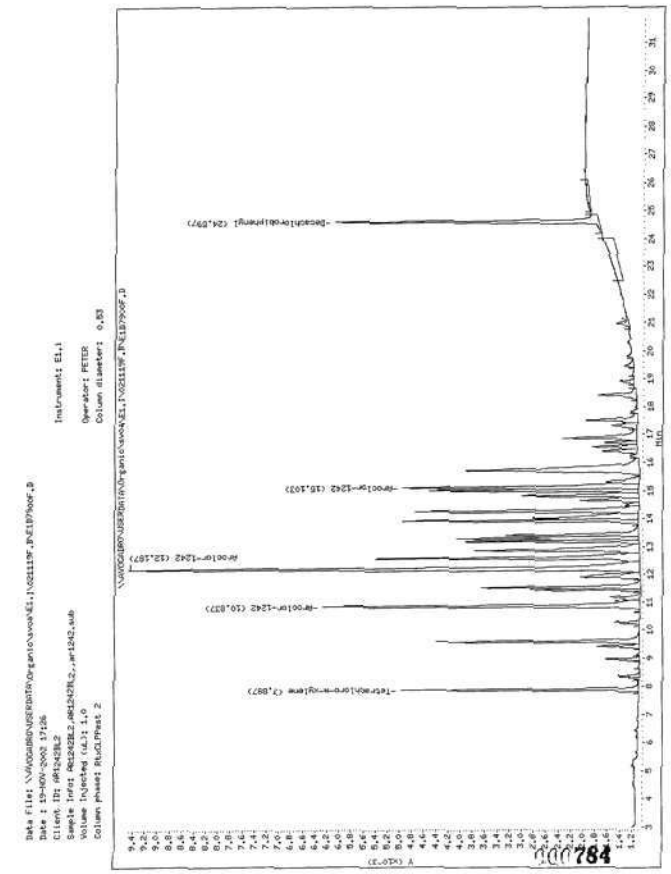
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.690	6.637	644	844	0.001%	0.0018		100.00(a)
Aroclor-1242	10.847	8.743	1163	1371	0.12	0.017	80.00- 120.00	100.00(a)
	12.193	10.300	1814	874	0.097	0.18	154.55- 194.55	132.46(a)
	15.127	13.110	687	413	0.093	0.25	61.62- 101.62	60.19(a)
		Average of Peak Amounts =			0.10	0.15		
Decachlorobiphenyl	24.603	21.933	1021	798	0.002%	0.0020		100.00(a)

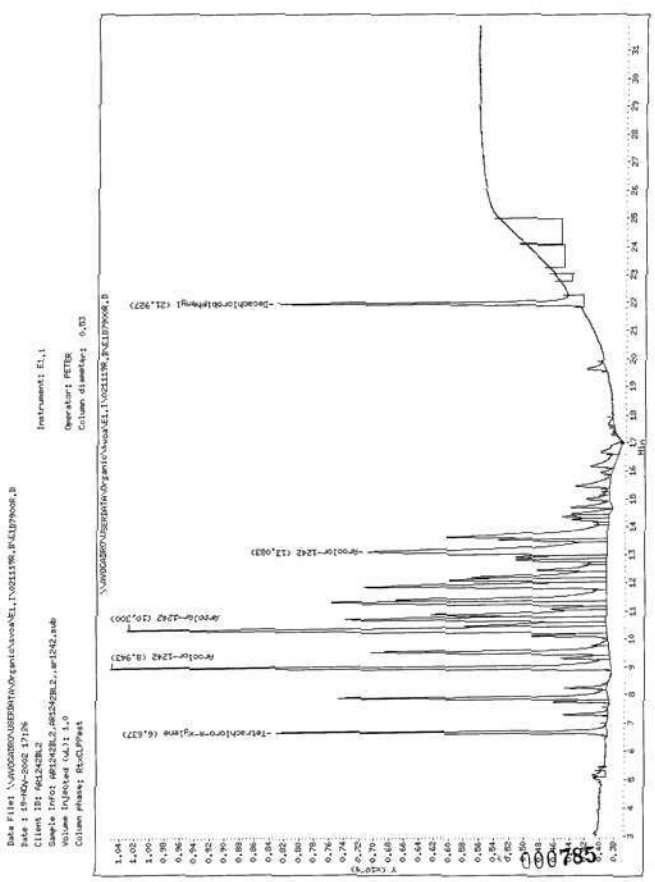
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

000783



000784



000785

Data File: E1D7900F.D
Report Date: 21-Nov-2002 16:20

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1D7900F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1D7900R.D
Inj Date : 19-NOV-2002 17:26
Sample Info: AR1242BL2,AR1242BL2,,ar1242.sub
Misc Info : 1,2,,1
Cal Date : 21-NOV-2002 10:22
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1_PCB_R.m
Sub List #1 : ar1242.sub
Sub List #2 : ar1242.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

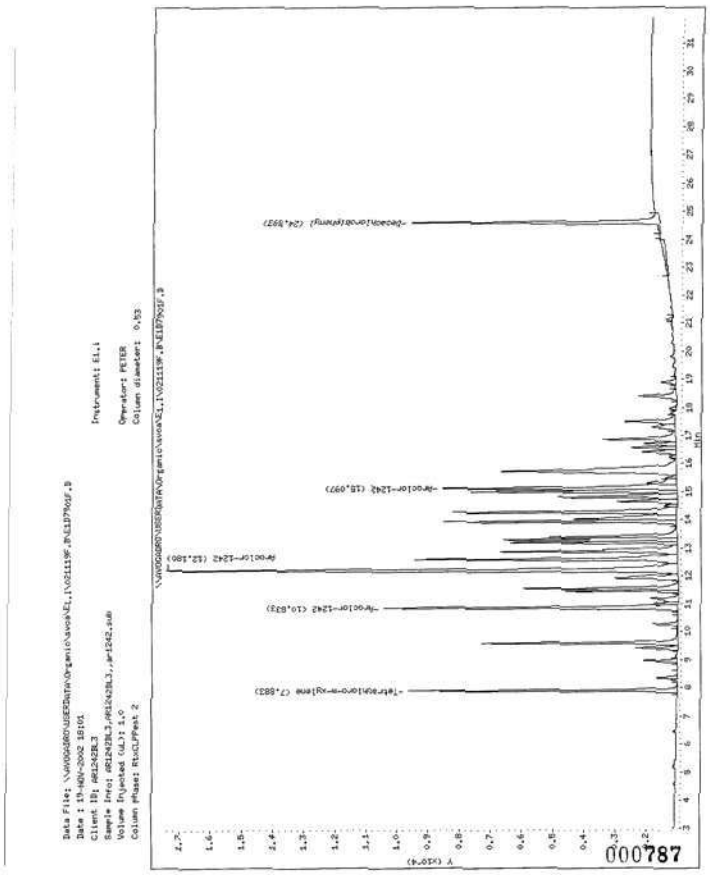
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.687	6.637	3884	4394	0.0099	0.0094		100.00(a)
Aroclor-1242	10.837	8.943	5198	4653	0.56	0.50	80.00- 120.00	100.00(a)
	12.187	10.300	8391	8377	0.54	0.50	154.55- 194.55	161.43(a)
	15.103	13.089	3874	3146	0.52	0.55	61.62- 101.62	74.53(a)
		Average of Peak Amounts =			0.54	0.52		
Decachlorobiphenyl	24.597	21.927	4335	4045	0.010	0.010		100.00(a)

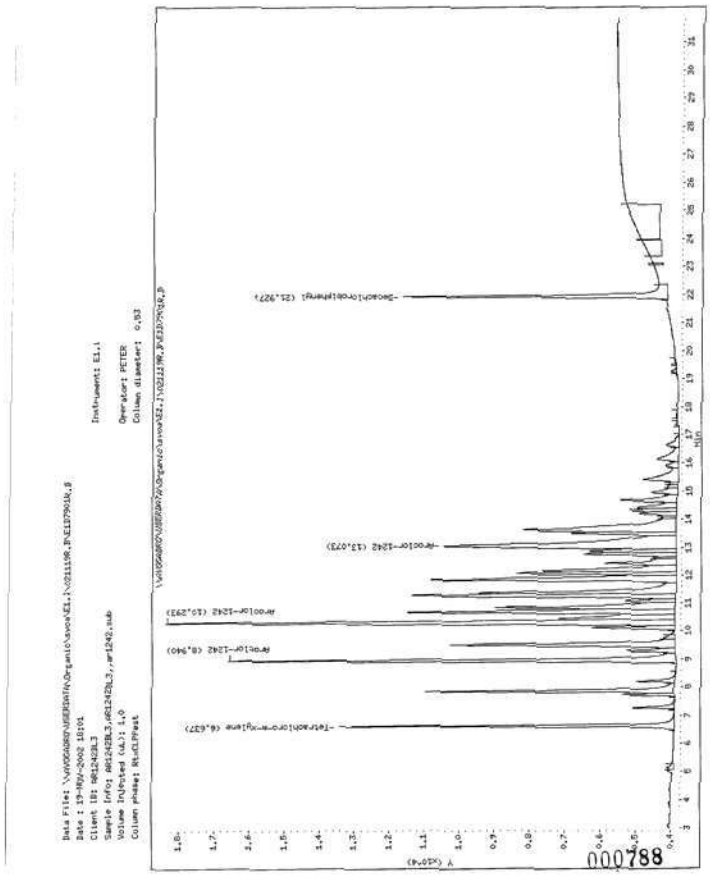
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

000786



000787



000788

Data File: E1D7901F.D
Report Date: 21-Nov-2002 16:20

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1D7901F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1D7901R.D
Inj Date : 19-NOV-2002 18:01
Sample Info: *AR1242BL3,AR1242BL3,,ar1242.sub*
Misc Info : 1,3,,1
Cal Date : 21-NOV-2002 10:22
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1_PCB_R.m
Sub List #1 : ar1242.sub
Sub List #2 : ar1242.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

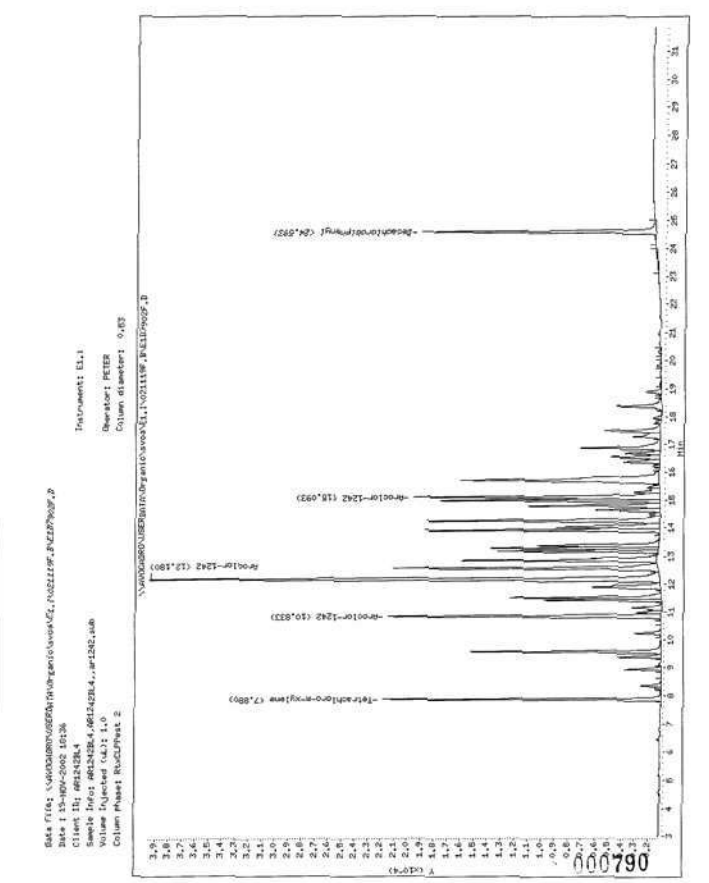
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.883	8.637	8628	9323	0.022	0.021		100.00(a)
Aroclor-1242	10.833	8.960	9427	12726	1.0	1.0	80.00- 120.00	100.00
	12.180	10.393	16404	14448	1.0	0.9%	154.55- 194.55	174.01
	15.097	13.073	7514	8408	1.0	0.9%	61.62- 101.62	79.71
		Average of Peak Amounts =			1.0	0.9%		
Decachlorobiphenyl	24.593	21.927	7952	7536	0.019	0.019		100.00(a)

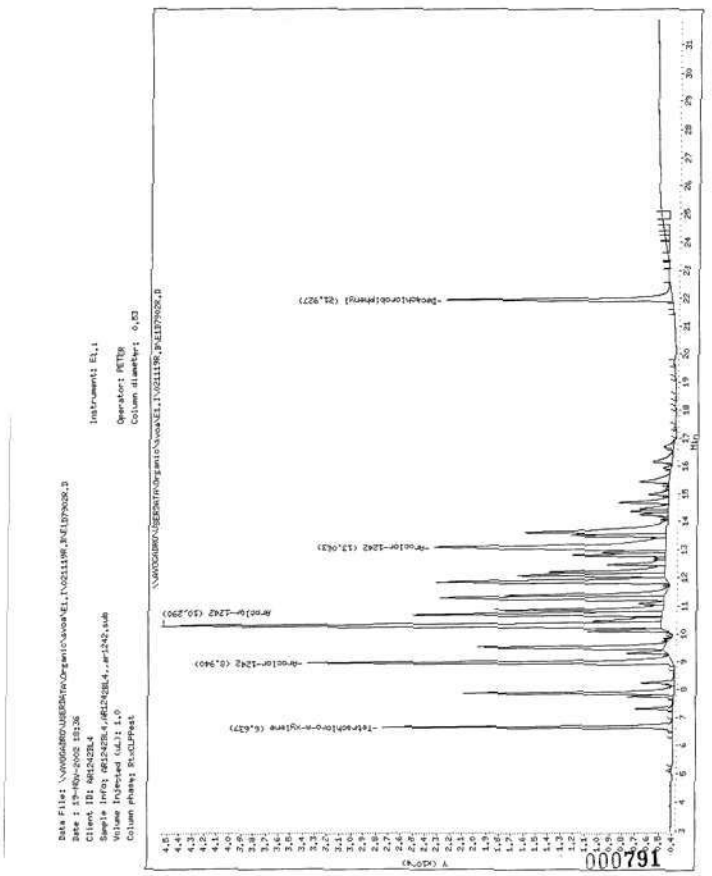
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

000789



000790



000791

Data File: E1D7902F.D
Report Date: 21-Nov-2002 16:20

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1D7902F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1D7902R.D
Inj Date : 19-NOV-2002 18:36
Sample Info: AR1242BL4,AR1242BL4,,ar1242.sub
Misc Info : 1,4,,1
Cal Date : 21-NOV-2002 10:22
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1_PCB_R.m
Sub List #1 : ar1242.sub
Sub List #2 : ar1242.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

*Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)*

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

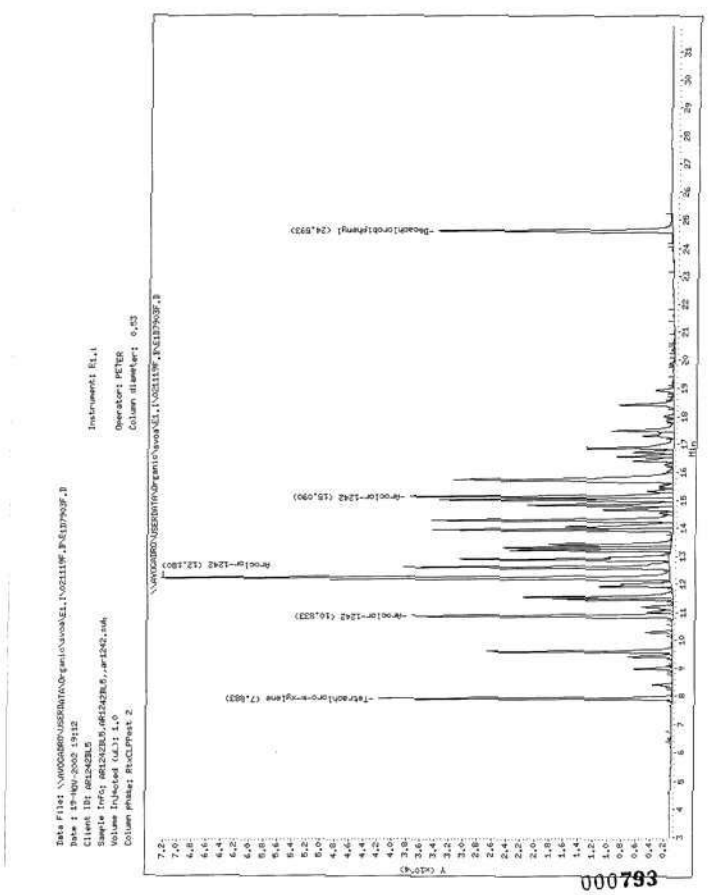
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-Xylene	7.880	6.637	32841	33557	0.053	0.051		105.00(a)
Aroclor-1242	10.933	8.940	20441	29650	2.2	3.6	82.00- 120.00	105.00
	12.180	10.293	38266	40540	2.4	2.6	154.55- 194.55	187.10
	15.093	13.063	18610	18729	2.5	2.3	61.62- 101.62	99.04
			Average of Peak Amounts =		2.4	2.4		
Decachlorobiphenyl	24.593	21.927	17553	18340	0.042	0.047		100.00(a)

QC Flag Legend

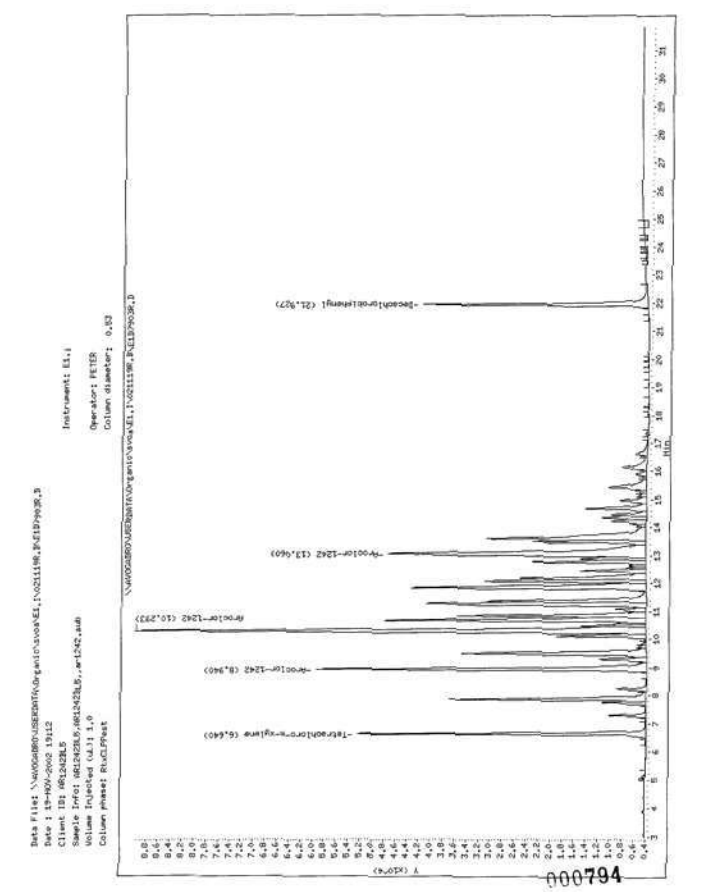
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

11/21.2

000792



000793



000794

Data File: E1D7903F.D
Report Date: 21-Nov-2002 16:20

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1D7903F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1D7903R.D
Inj Date : 19-NOV-2002 19:12
Sample Info: AR1242BL5,AR1242BL5,,ar1242.sub
Misc Info : 1,5,,1
Cal Date : 21-NOV-2002 10:22
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

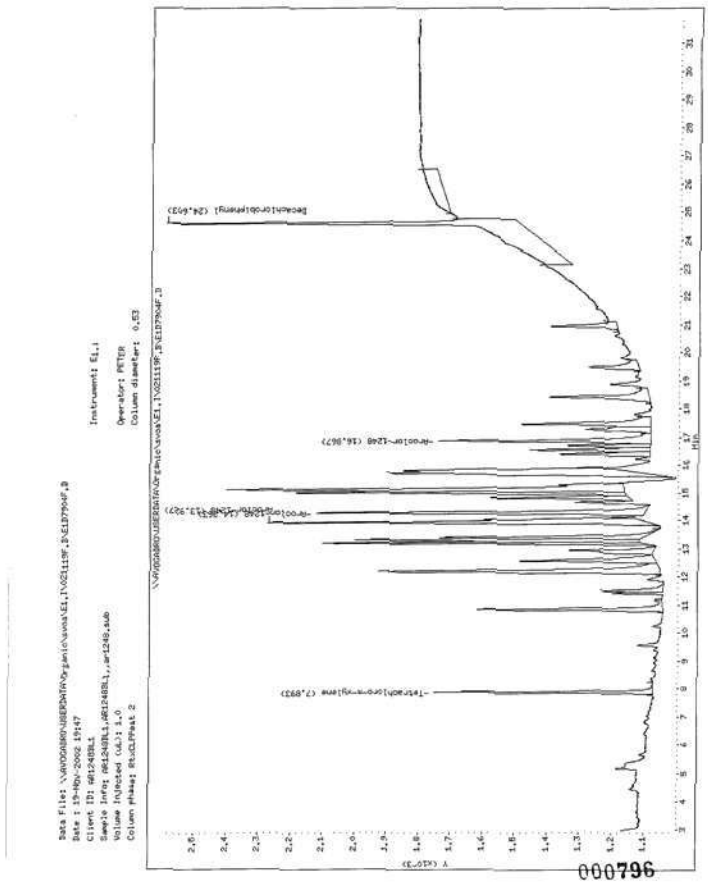
Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1_PCB_R.m
Sub List #1 : ar1242.sub
Sub List #2 : ar1242.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

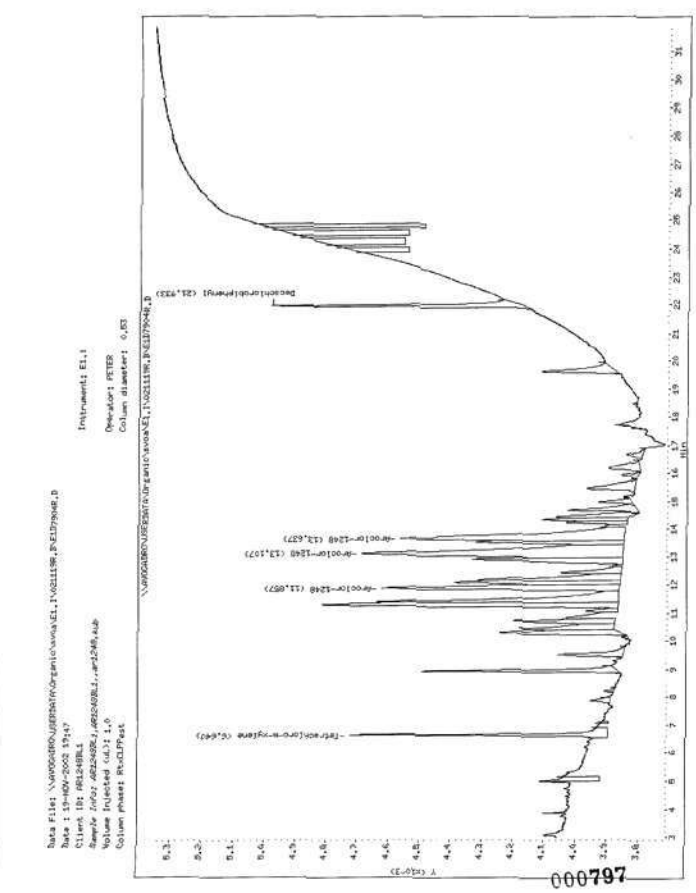
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.893	8.640	42981	48408	0.10	0.10		100.00
Aroclor-1242	10.833	8.940	36332	55462	3.9	4.9	80.00- 120.00	100.00
	12.180	10.293	72857	85896	4.6	5.0	154.55- 194.55	194.70
	13.095	12.040	36649	49328	5.0	5.1	61.62- 101.62	100.71
			Average of Peak Amounts =		4.5	5.0		
Decachlorobiphenyl	24.591	21.927	31602	37759	0.078	0.098		100.00

000795



000796



000797

Data File: E1D7904F.D
Report Date: 21-Nov-2002 16:20

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1D7904F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1D7904R.D
Inj Date : 19-NOV-2002 19:47
Sample Info: AR1248BL1,AR1248BL1,,ar1248.sub
Misc Info : 1,1,,1
Cal Date : 21-NOV-2002 10:22
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1_PCB_R.m
Sub List #1 : ar1248.sub
Sub List #2 : ar1248.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.893	8.640	677	825	0.0017	0.0018		100.00(a)
Aroclor-1248	11.857	11.857	1193	761	0.100	0.15	80.00- 120.00	100.00(a)
	13.107	13.107	1021	837	0.091	0.24	75.47- 115.47	85.58(a)
	13.627	13.627	658	717	0.094	0.34	37.70- 57.70	55.16(a)
			Average of Peak Amounts =		0.095	0.24		
Decachlorobiphenyl	23.933	21.933	1101	811	0.0036	0.0021		100.00(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

000798

Data File: E1D7905F.D
Report Date: 21-Nov-2002 16:20

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1D7905F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1D7905R.D
Inj Date : 19-NOV-2002 20:22
Sample Info: AR1248BL2,AR1248BL2,,ar1248.sub
Misc Info : 1,2,,1
Cal Date : 21-NOV-2002 10:22
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1_PCB_R.m
Sub List #1 : ar1248.sub
Sub List #2 : ar1248.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

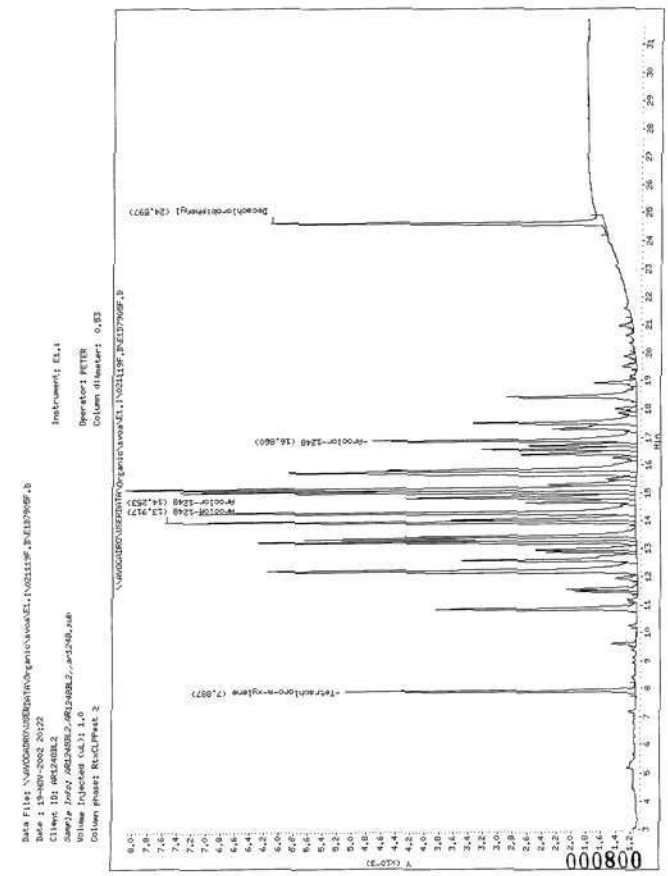
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

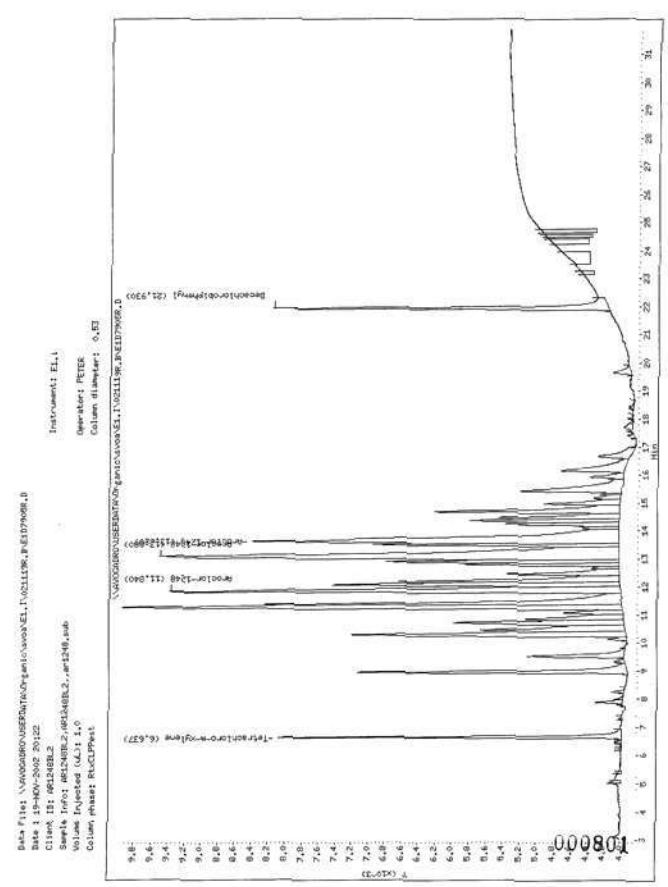
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.887	6.637	3362	4048	0.010	0.0091		100.00(a)
Aroclor-1248	13.917	11.840	4430	5373	0.54	0.48	80.00- 120.00	100.00(a)
	14.253	12.080	5970	5484	0.53	0.52	75.47- 115.47	92.85(a)
	14.840	13.420	3613	4370	0.52	0.60	37.70- 77.70	86.19(a)
			Average of Peak Amounts =		0.53	0.53		
Decachlorobiphenyl	24.597	21.930	4557	4002	0.011	0.010		100.00(a)

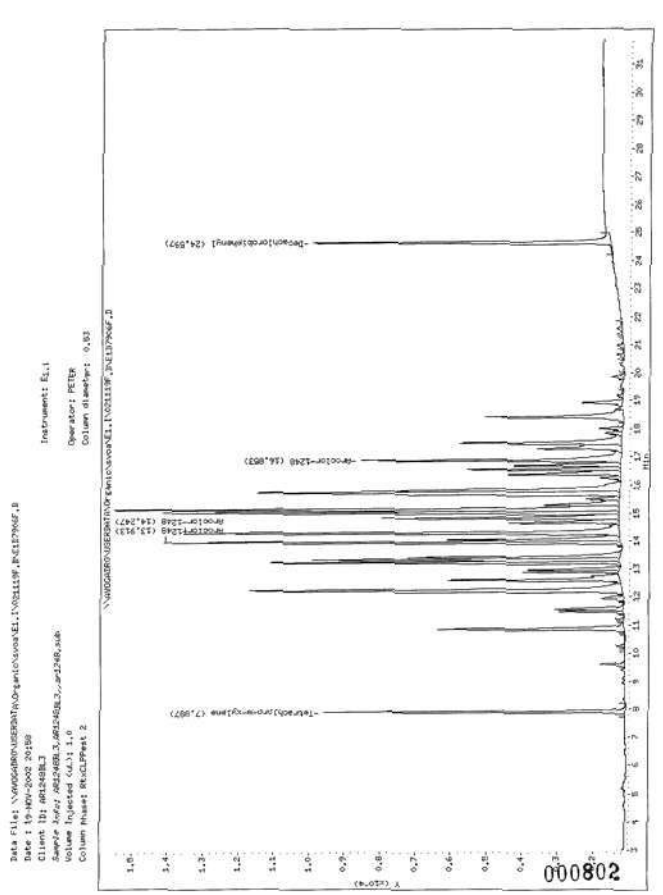
QC Flag Legend

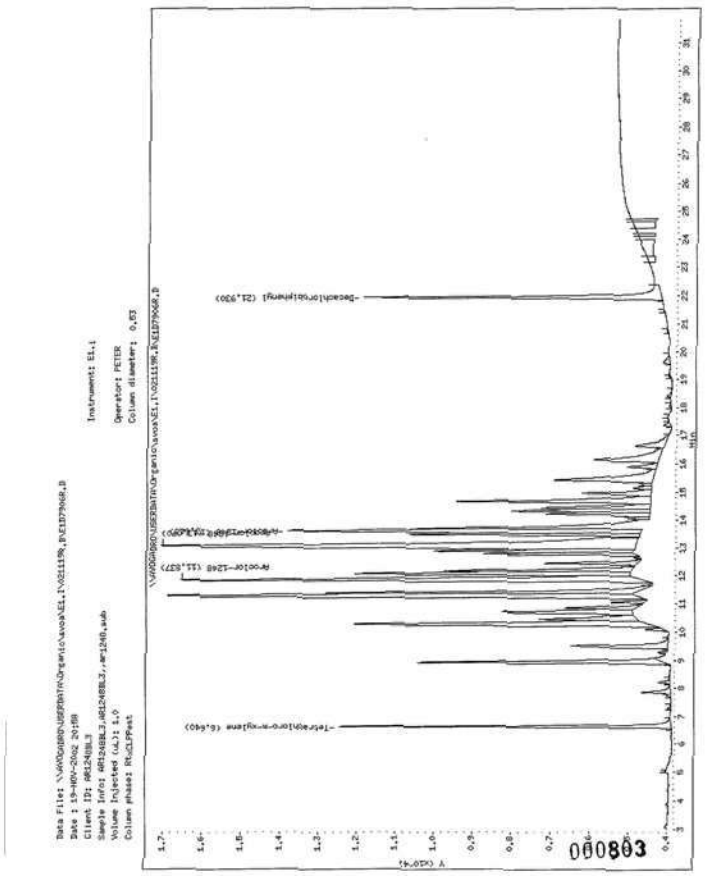
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

11/21/02









Data File: E1D7906F.D
Report Date: 21-Nov-2002 16:20

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1D7906F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1D7906R.D
Inj Date : 19-NOV-2002 20:58
Sample Info: AR1248BL3,AR1248BL3,,ar1248.sub
Misc Info : 1,3,,1
Cal Date : 21-NOV-2002 10:22
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : *\\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1_PCB_F.m*
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1_PCB_R.m
Sub List #1 : ar1248.sub
Sub List #2 : ar1248.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

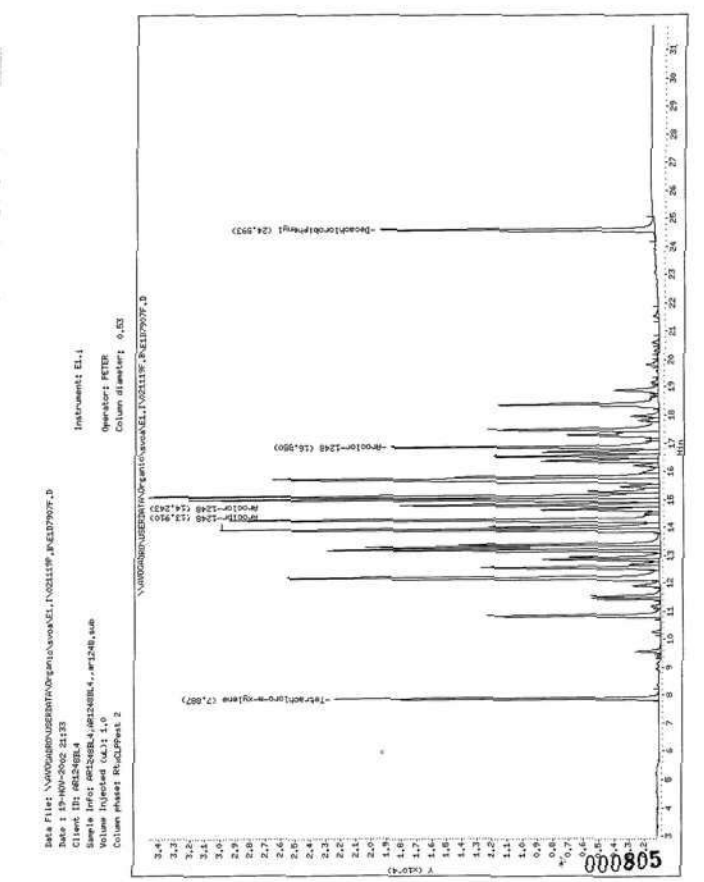
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.897	6.640	8472	8540	0.022	0.019		100.00(a)
Aroclor-1248	*13.913*	*11.637*	*12466*	*11961*	*1.2*	*0.98*	*60.00- 120.00*	*100.00*
	14.247	15.070	12258	12237	1.1	0.92	75.47- 119.47	95.27
	16.853	15.613	7307	9108	1.0	0.94	37.70- 77.70	56.79
			Average of Peak Amounts =		1.1	0.95		
Decachlorobiphenyl	24.597	21.930	8392	7686	0.020	0.020		100.00(a)

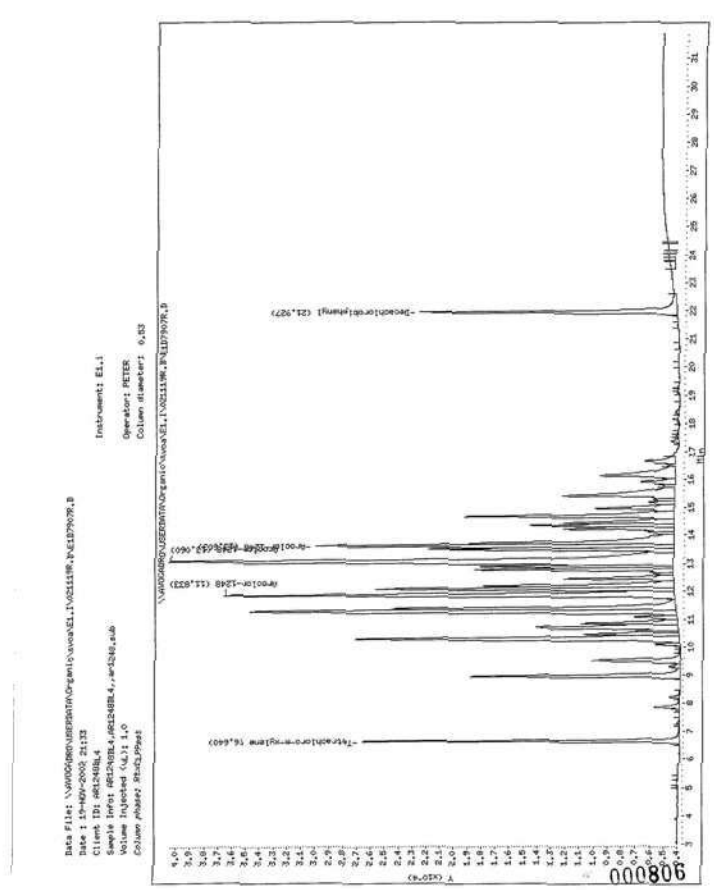
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

11/21/02

000804





Data File: E1D7907F.D
Report Date: 21-Nov-2002 16:20

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1D7907F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1D7907R.D
Inj Date : 19-NOV-2002 21:33
Sample Info: AR1248BL4,AR1248BL4,,ar1248.sub
Misc Info : 1,4,,1
Cal Date : 21-NOV-2002 10:22
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1_PCB_R.m
Sub List #1 : ar1248.sub
Sub List #2 : ar1248.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.887	6.640	21349	22762	0.055	0.052		100.00
Aroclor-1248	13.910	11.833	29002	32351	3.4	3.5	80.00- 120.00	100.00
	14.243	13.060	28396	34200	3.5	3.4	75.47- 115.47	97.91
	16.850	13.603	17480	25685	2.5	2.4	37.70- 77.70	60.96
			Average of Peak Amounts =		3.5	2.4		
Decachlorobiphenyl	24.593	21.927	18097	18529	0.043	0.048		100.00(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

11/21/02

Data File: E1D7908F.D
Report Date: 21-Nov-2002 16:20

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1D7908F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1D7908R.D
Inj Date : 19-NOV-2002 22:08
Sample Info: AR1248BL5,AR1248BL5,,ar1248.sub
Misc Info : 1,5,,1
Cal Date : 21-NOV-2002 10:22
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

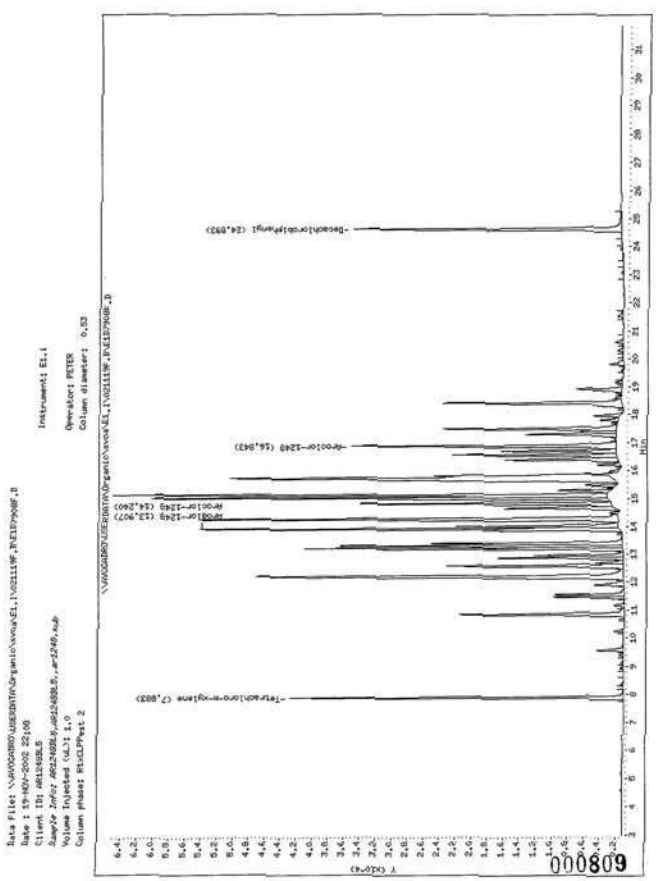
Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1_PCB_R.m
Sub List #1 : ar1248.sub
Sub List #2 : ar1248.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

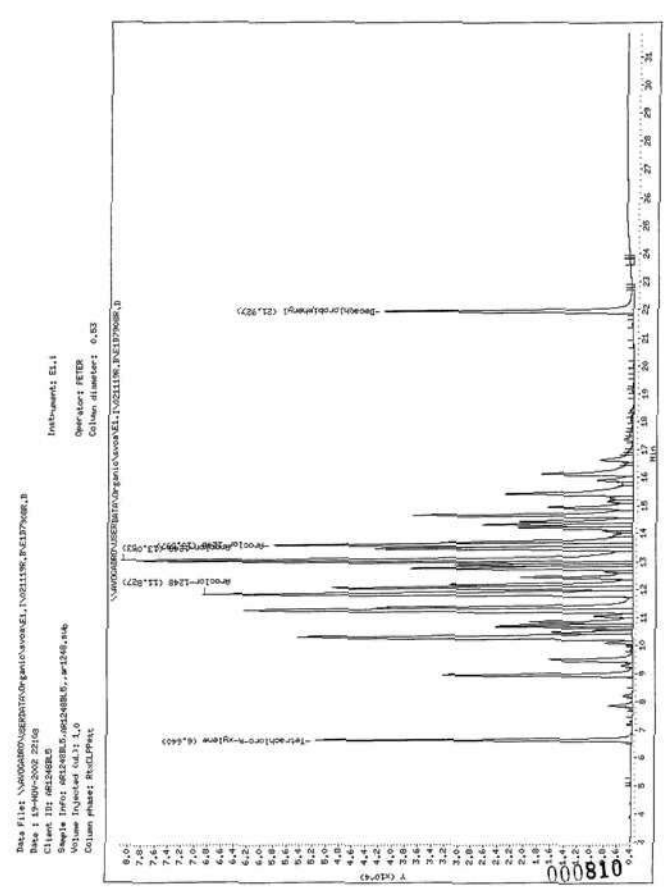
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

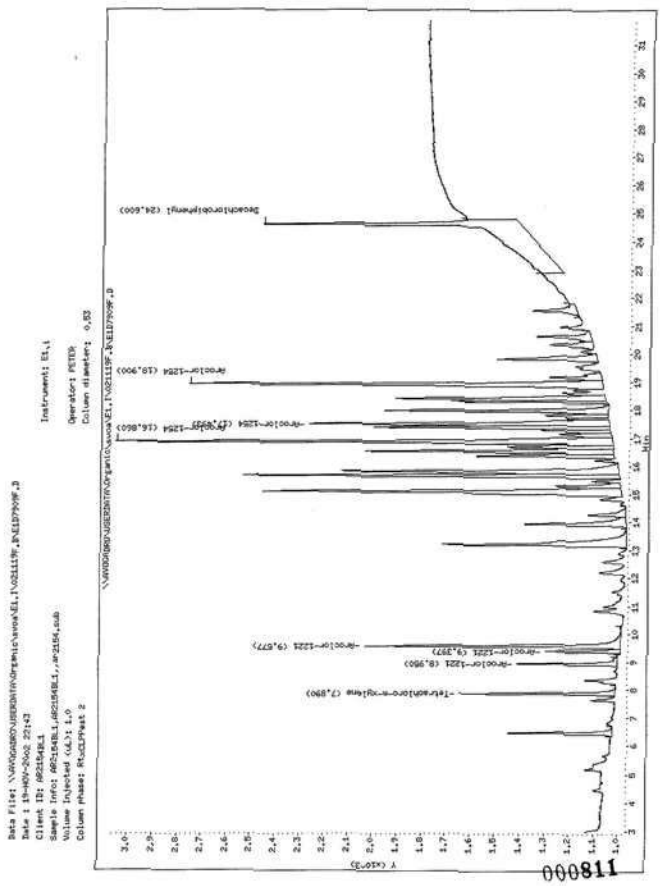
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.883	6.640	41653	47841	0.11	0.11		100.00
Aroclor-1248	13.907	11.827	52618	65149	4.4	5.0	80.00- 120.00	100.00
	14.240	13.053	52394	77308	4.4	5.0	75.47- 115.47	89.38
	16.843	13.597	33145	54314	4.8	5.0	37.70- 77.70	62.99
			Average of Peak Amounts =		4.8	5.0		
Decachlorobiphenyl	24.593	21.927	33544	37833	0.060	0.097		100.00

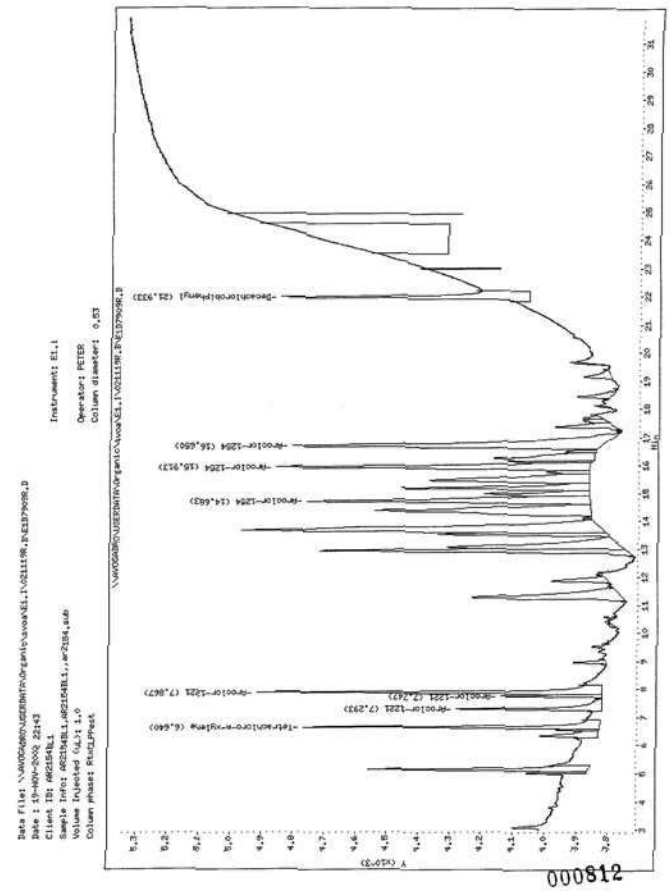
11/21/02







000811



000812

Data File: E1D7909F.D
Report Date: 21-Nov-2002 16:20

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1D7909F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1D7909R.D
Inj Date : 19-NOV-2002 22:43
Sample Info: AR2154BL1,AR2154BL1,,ar2154.sub
Misc Info : 1,1,,1
Cal Date : 21-NOV-2002 10:22
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1_PCB_R.m
Sub List #1 : ar2154.sub
Sub List #2 : ar2154.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	*1.000*	*Volume injected (uL)*

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.890	6.640	430	941	0.0016	0.0031		100.00(a)
Aroclor-1221	8.950	7.393	404	458	0.10	0.10	80.00- 120.00	100.00(a)
	9.397	7.747	301	318	0.10	0.10	51.63- 91.43	74.63(a)
	9.577	7.867	1041	1095	0.11	0.10	203.04- 243.04	256.40(a)
			Average of Peak Amounts =		0.10	0.10		
Aroclor-1254	16.840	14.683	2026	899	0.10	0.32	80.00- 120.00	100.00(a)
	17.493	15.913	1221	896	0.094	0.17	45.32- 85.32	60.30(a)
	18.900	16.650	1685	979	0.10	0.31	59.40- 99.40	83.21(a)
			Average of Peak Amounts =		0.098	0.20		
Decachlorobiphenyl	24.600	21.933	1054	790	0.0025	0.0020		100.00(a)

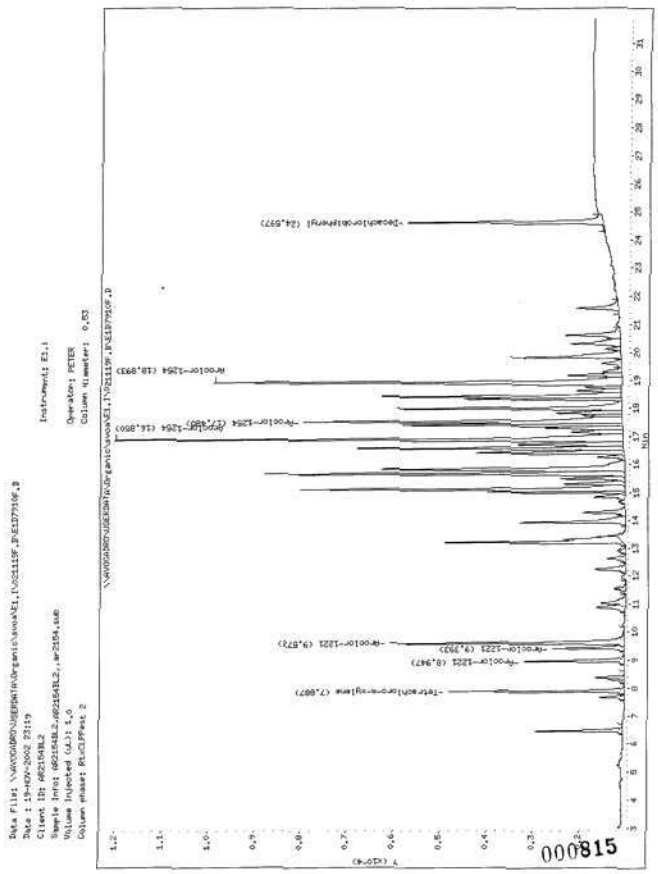
000813

Data File: E1D7909F.D
Report Date: 21-Nov-2002 16:20

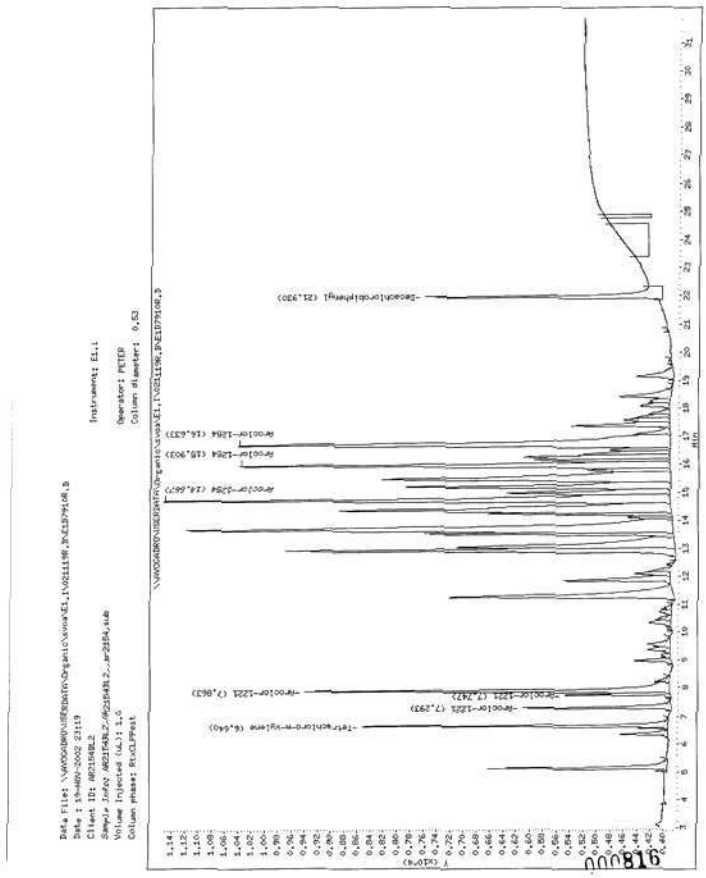
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

000814



000815



000816

Data File: E1D7910F.D
Report Date: 21-Nov-2002 16:20

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1D7910F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1D7910R.D
Inj Date : 19-NOV-2002 23:19
Sample Info: AR2154BL2,AR2154BL2,,ar2154.sub
Misc Info : 1,2,,1
Cal Date : 21-NOV-2002 10:22
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1_PCB_R.m
Sub List #1 : ar2154.sub
Sub List #2 : ar2154.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio	
Tetrachloro-m-xylene	7.687	6.640	3759	4594	0.0096	0.010		100.00	(a)
Aroclor-1221	8.947	7.293	2143	3211	0.53	0.51	80.00- 120.00	100.00	(a)
	9.393	7.747	1562	1573	0.54	0.51	51.63- 91.43	71.99	(a)
	9.573	7.863	5026	5486	0.55	0.53	203.04- 243.04	234.64	(a)
		Average of Peak Amounts =			0.54	0.52			
Aroclor-1254	14.850	14.667	10951	7613	0.54	0.52	80.00- 120.00	100.00	(a)
	17.480	15.903	6858	4474	0.53	0.53	45.32- 85.32	62.62	(a)
	18.893	16.633	8793	6498	0.54	0.52	59.40- 99.40	80.28	(a)
		Average of Peak Amounts =			0.54	0.52			
DecachlorobiPhenyl	24.587	21.930	4191	3554	0.010	0.0094		100.00	(a)

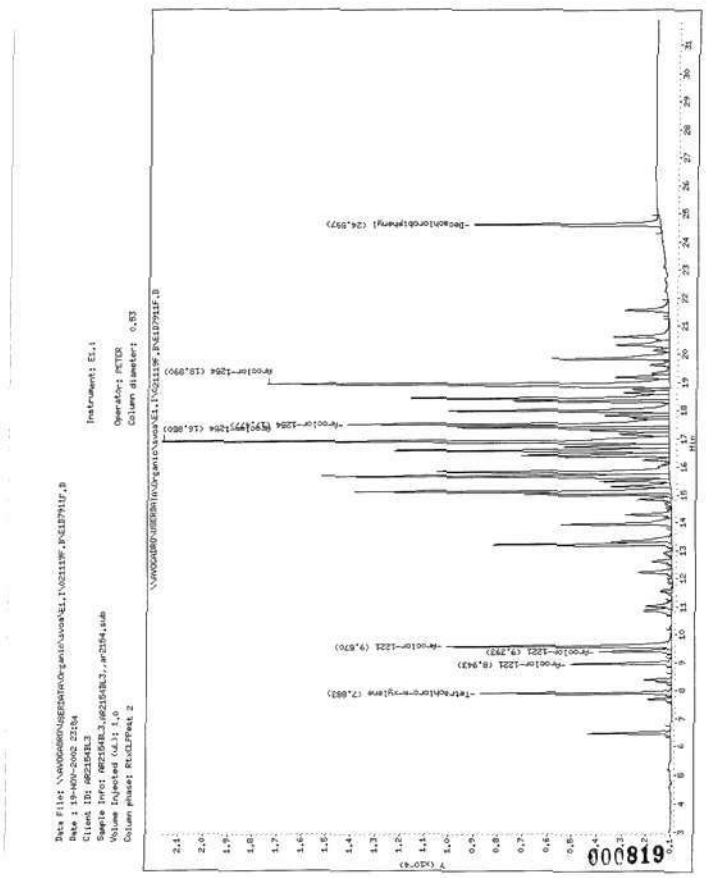
000817

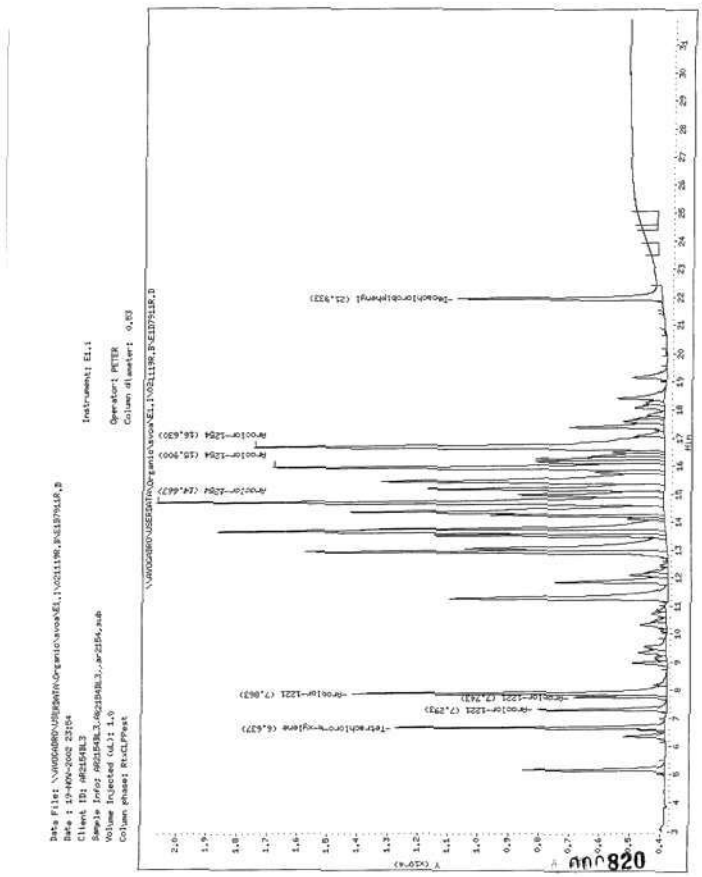
Data File: E1D7910F.D
Report Date: 21-Nov-2002 16:20

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

000818





Data File: E1D7911F.D
Report Date: 21-Nov-2002 16:20

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1D7911F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1D7911R.D
Inj Date : 19-NOV-2002 23:54
Sample Info: AR2154BL3,AR2154BL3,,ar2154.sub
Misc Info : 1,3,,1
Cal Date : 21-NOV-2002 10:22
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1_PCB_R.m
Sub List #1 : ar2154.sub
Sub List #2 : ar2154.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.083	6.637	7747	8838	0.010	0.010		100.00(a)
Aroclor-1221	8.943	7.293	4089	4258	1.0	0.88	80.00- 120.00	100.00
	9.393	7.743	2929	3049	1.0	1.00	51.43- 91.43	71.43
	9.570	7.863	9120	10375	1.0	1.00	203.04- 243.04	223.04
		Average of Peak Amounts =			1.0	0.99		
Aroclor-1254	18.850	14.663	20582	16766	1.0	0.94	80.00- 120.00	100.00
	17.477	15.900	13041	12530	1.0	0.97	45.32- 85.32	63.36
	18.630	16.630	16328	13574	1.0	0.93	59.40- 99.40	79.32
		Average of Peak Amounts =			1.0	0.95		
Decachlorobiphenyl	24.597	21.933	7561	6731	0.018	0.018		100.00(a)

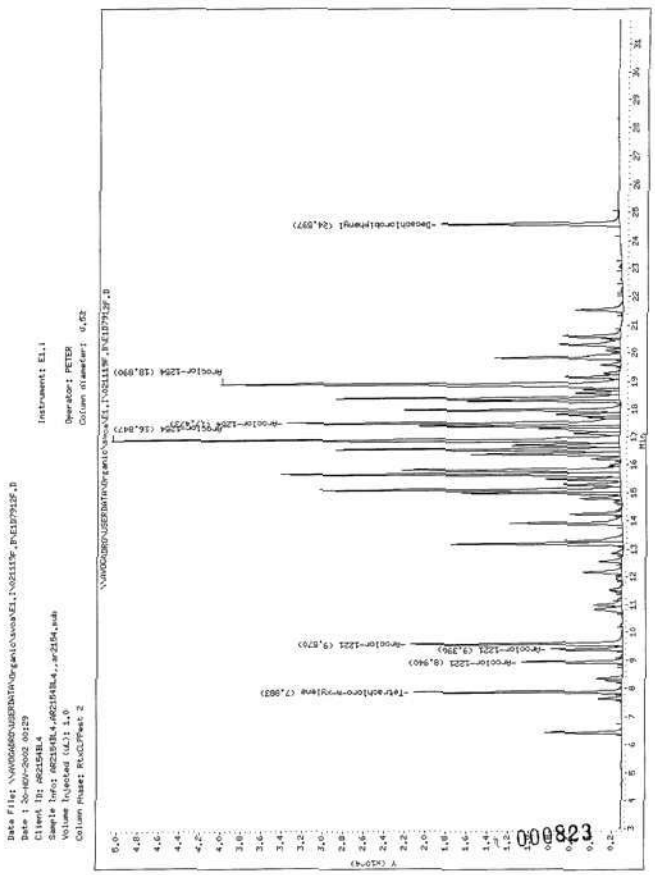
000821

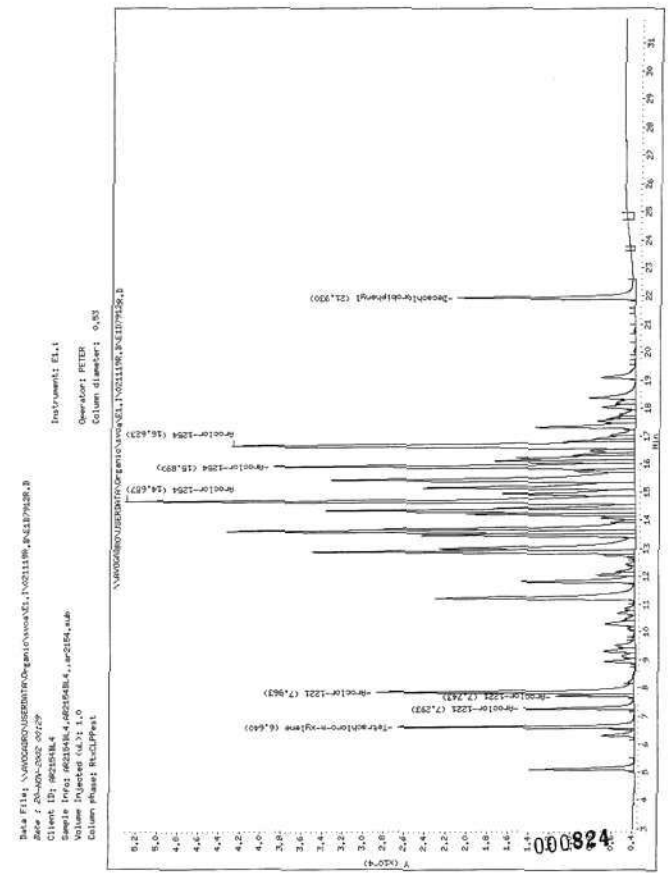
Data File: E1D7911F.D
Report Date: 21-Nov-2002 16:20

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

000822





Data File: E1D7912F.D
Report Date: 21-Nov-2002 16:20

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1D7912F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1D7912R.D
Inj Date : 20-NOV-2002 00:29
Sample Info: AR2154BL4,AR2154BL4,,ar2154.sub
Misc Info : 1,4,,1
Cal Date : 21-NOV-2002 10:22
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1_PCB_R.m
Sub List #1 : ar2154.sub
Sub List #2 : ar2154.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

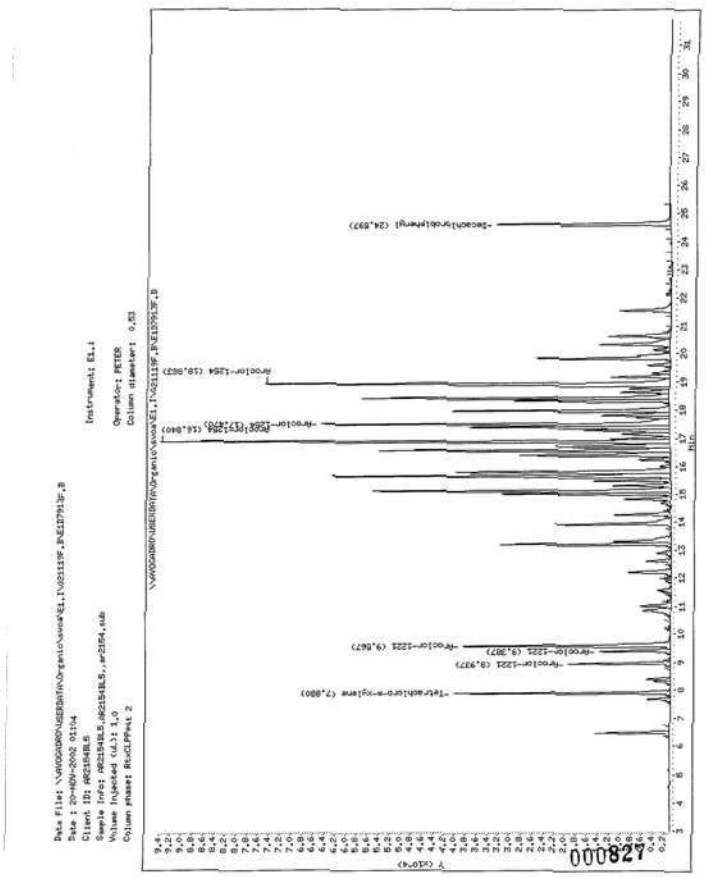
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.983	6.660	20064	12785	0.051	0.049		100.00(a)
Aroclor-1221	8.940	7.293	9741	10594	2.4	2.4	80.00- 130.00	100.00
	9.390	7.963	6887	7475	2.4	2.4	51.63- 91.63	70.56
	9.570	7.963	20494	24820	2.3	2.4	203.04- 243.04	209.96
			Average of Peak Amounts =		2.4	2.4		
Aroclor-1254	16.847	14.627	49175	49154	2.4	2.4	80.00- 120.00	100.00
	17.473	15.889	33205	34878	1.5	1.5	45.32- 85.32	65.49
	18.890	16.627	38402	38947	2.4	2.4	59.40- 99.40	78.50
			Average of Peak Amounts =		2.4	2.4		
Decachlorobiphenyl	24.597	21.330	17281	17163	0.041	0.048		100.00(a)

11/21/02

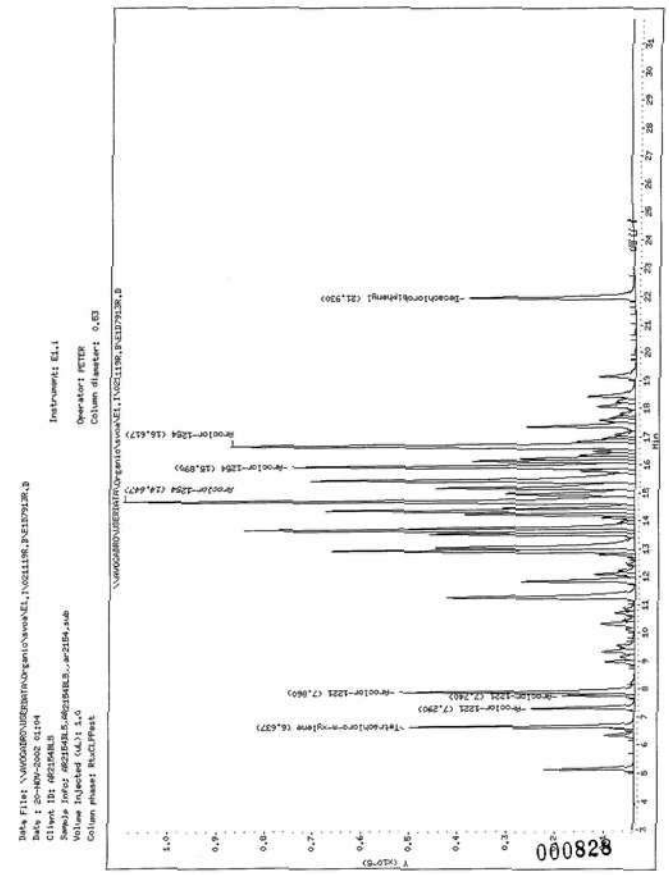
Data File: E1D7912R.D
Report Date: 21-Nov-2002 16:20

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).



000827



000828

Data File: E1D7913F.D
Report Date: 21-Nov-2002 16:21

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1D7913F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1D7913R.D
Inj Date : 20-NOV-2002 01:04
Sample Info: AR2154BL5,AR2154BL5,,ar2154.sub
Misc Info : 1,5,,1
Cal Date : 21-NOV-2002 10:22
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1_PCB_R.m
Sub List #1 : ar2154.sub
Sub List #2 : ar2154.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.880	6.637	39346	46136	0.10	0.10		100.00(a)
Aroclor-1221	8.937	7.290	18567	21332	4.6	4.8	80.00- 120.00	100.00
	9.387	7.740	13888	14819	4.5	4.8	51.63- 91.63	69.41
	9.567	7.860	37459	48425	4.2	4.7	203.04- 243.04	201.83
		Average of Peak Amounts =			4.4	4.8		
Aroclor-1254	16.860	14.647	92774	105408	4.6	5.0	80.00- 120.00	100.00
	17.470	15.890	62647	70726	4.3	5.0	45.32- 85.32	68.39
	18.883	16.617	73660	83455	4.6	5.0	59.40- 99.40	79.48
		Average of Peak Amounts =			4.7	5.0		
DecachlorobiPanyl	24.597	21.930	31678	34348	0.076	0.097		100.00(a)

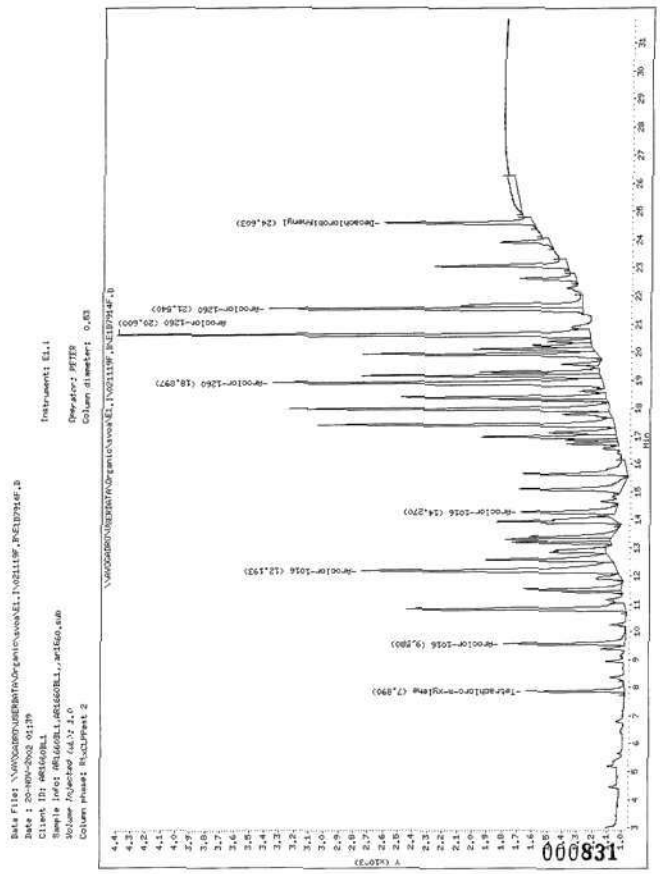
000829

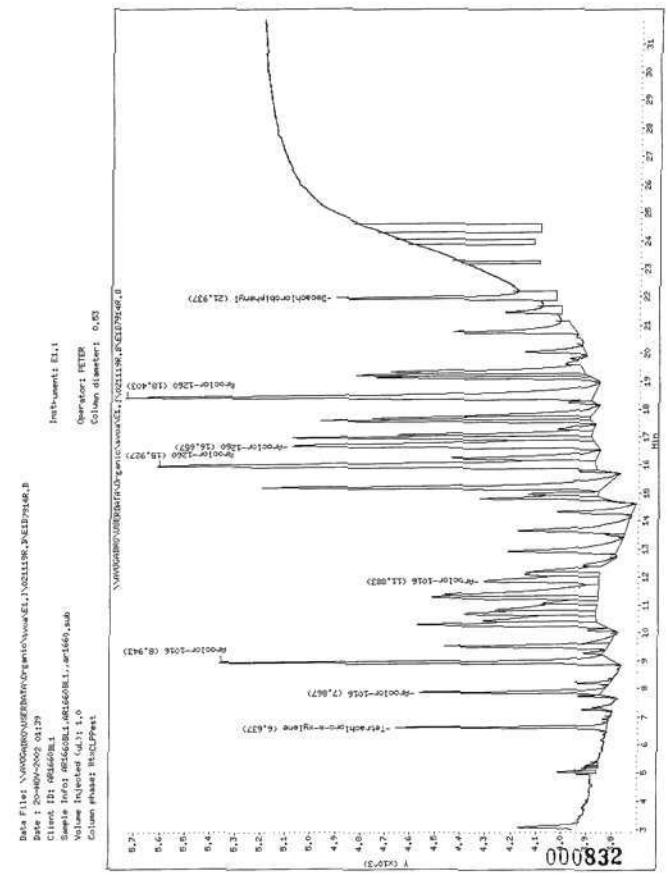
Data File: E1D7913F.D
Report Date: 21-Nov-2002 16:21

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

000830





Data File: E1D7914F.D
Report Date: 21-Nov-2002 16:21

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1D7914F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1D7914R.D
Inj Date : 20-NOV-2002 01:39
Sample Info: AR1660BL1,AR1660BL1,,ar1660.sub
Misc Info : 1,1,,1
Cal Date : 21-NOV-2002 10:22
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	*1000.000*	*Volume of sample extracted (ml)*
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-Xylene	7.890	8.637	656	837	0.0017	0.0019		100.00(a)
Aroclor-1016	9.580	7.867	806	718	0.11	0.090	80.00- 120.00	100.00(a)
	12.193	8.963	1713	1578	0.091	0.052	257.63- 297.63	212.41(a)
	14.270	11.883	623	493	0.086	0.20	85.94- 125.94	77.30(a)
			Average of Peak Amounts =		0.096	0.11		
Decachlorobiphenyl	24.603	21.937	1004	676	0.0024	0.0024		100.00(a)
Aroclor-1260	18.887	15.927	2216	1744	0.11	0.15	60.00- 120.00	100.00(a)
	20.600	16.657	3174	1518	0.11	0.20	125.01- 165.01	143.23(a)
	21.540	18.403	2109	1857	0.11	0.21	75.42- 115.62	95.17(a)
			Average of Peak Amounts =		0.11	0.19		

11/21/02

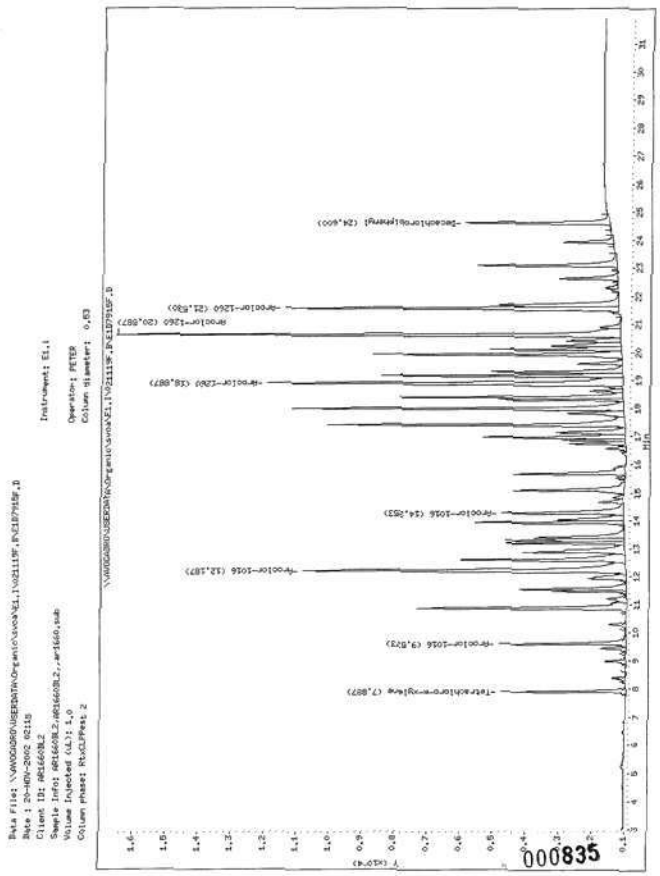
000833

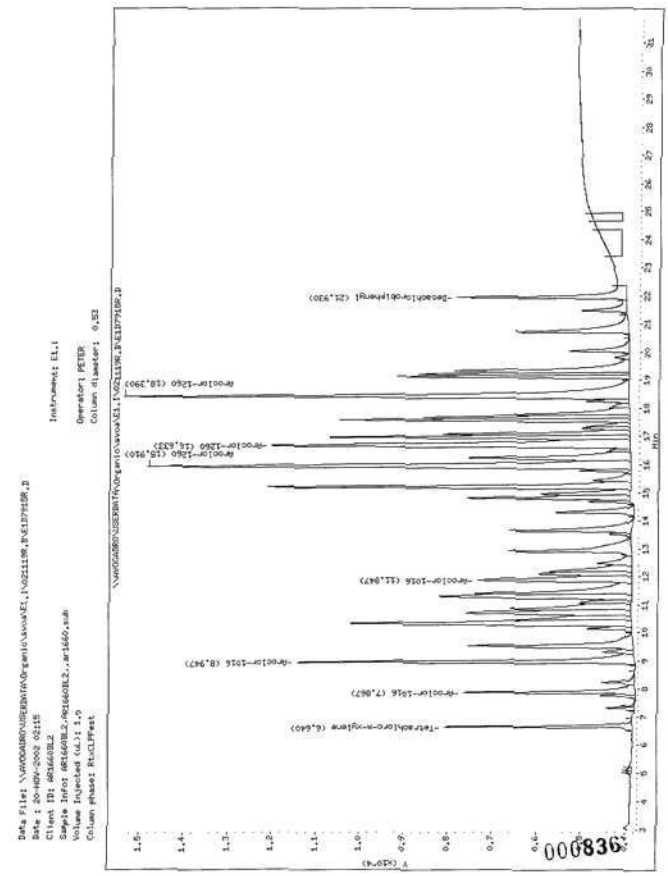
Data File: E1D7914F.D
Report Date: 21-Nov-2002 16:21

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

000834





Data File: E1D7915F.D
Report Date: 21-Nov-2002 16:21

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1D7915F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1D7915R.D
Inj Date : 20-NOV-2002 02:15
Sample Info: AR1660BL2,AR1660BL2,,ar1660.sub
Misc Info : 1,2,,1
Cal Date : 21-NOV-2002 10:22
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

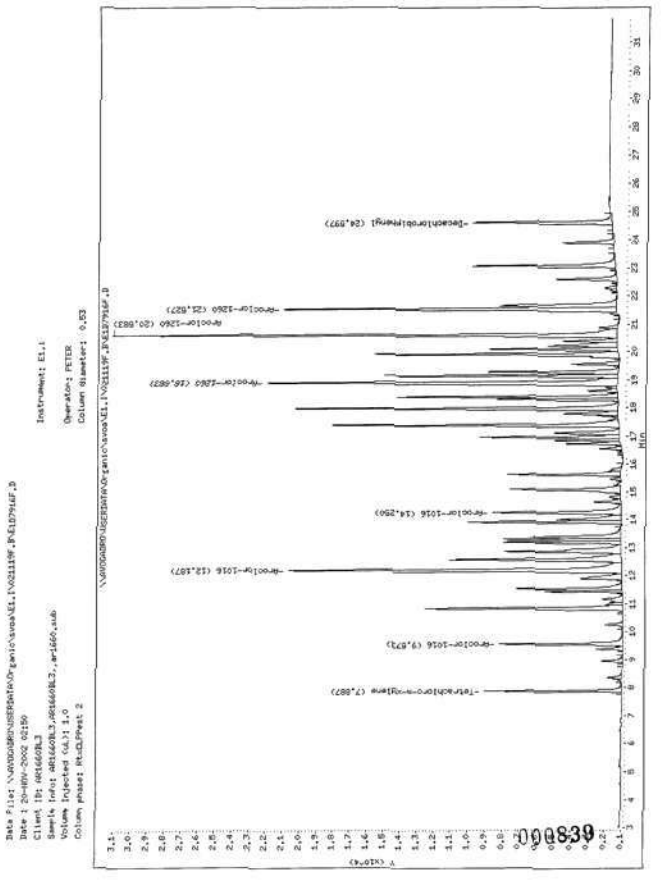
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.887	6.640	3787	4226	0.0097	0.0094		100.00(a)
Aroclor-1016	9.573	7.867	3840	3865	0.53	0.50	80.00- 120.00	100.00(a)
	12.187	8.947	9821	7628	0.52	0.49	297.63- 297.63	255.76(a)
	14.253	11.847	3484	3475	0.51	0.49	81.94- 123.94	99.94(a)
		Average of Peak Amounts =			0.52	0.49		
Decachlorobiphenyl	24.800	21.930	4403	3814	0.010	0.010		100.00(a)
Aroclor-1260	18.887	15.910	10947	10928	0.52	0.49	80.00- 120.00	100.00(a)
	20.587	16.633	15337	8122	0.51	0.48	125.01- 165.01	141.39(a)
	21.530	18.390	10156	11412	0.52	0.49	75.62- 115.62	93.63(a)
		Average of Peak Amounts =			0.52	0.49		

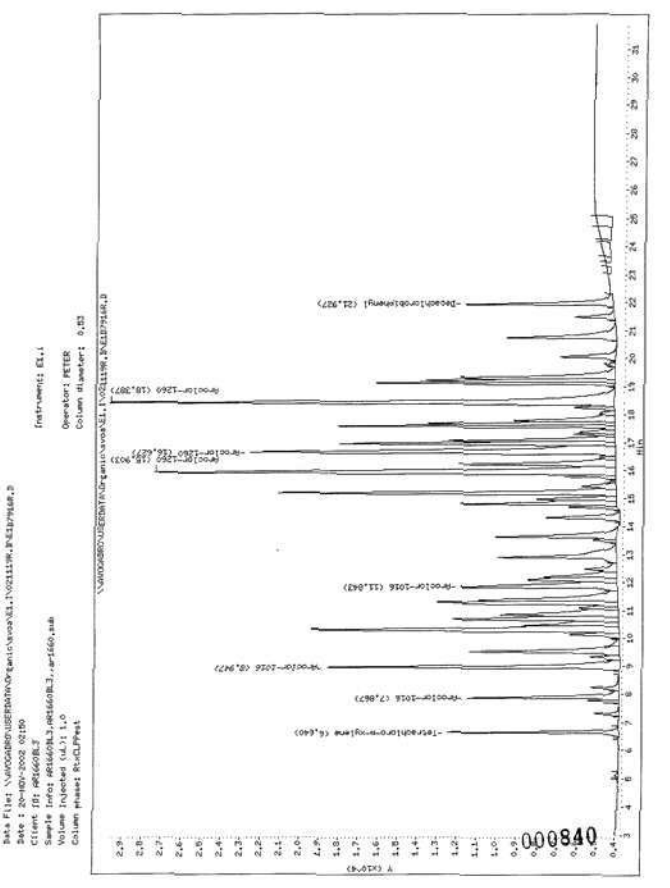
11/21/02

Data File: E1D7915F.D
Report Date: 21-Nov-2002 16:21

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).





Data File: E1D7916F.D
Report Date: 21-Nov-2002 16:21

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1D7916F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1D7916R.D
Inj Date : 20-NOV-2002 02:50
Sample Info: AR1660BL3,AR1660BL3,,ar1660.sub
Misc Info : 1,3,,1
Cal Date : 21-NOV-2002 10:22
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\81_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\81_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

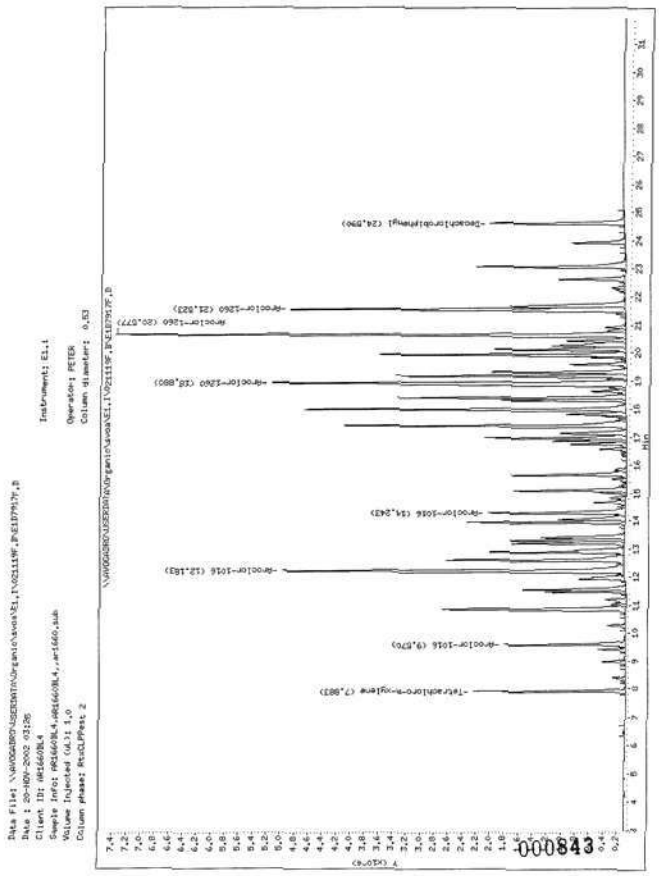
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.887	6.640	8043	8641	0.020	0.020		100.00(a)
Aroclor-1016	9.973	7.867	7248	7637	1.0	0.98	82.03- 123.05	100.00
	12.187	8.947	19814	16828	1.0	1.0	257.63- 297.63	270.89
	14.250	11.843	7553	7904	1.0	0.93	85.94- 125.94	104.21
		Average of Peak Amounts =			1.0	0.97		
Decachlorobiphenyl	24.887	21.927	8189	7477	0.020	0.020		100.00(a)
Aroclor-1260	18.883	15.903	20649	23379	1.00	0.95	80.00- 120.00	100.00
	20.583	16.627	29706	18498	1.00	0.91	125.01- 165.01	143.87
	21.527	18.387	18652	25565	1.00	0.91	75.62- 115.62	94.93
		Average of Peak Amounts =			1.0	0.92		

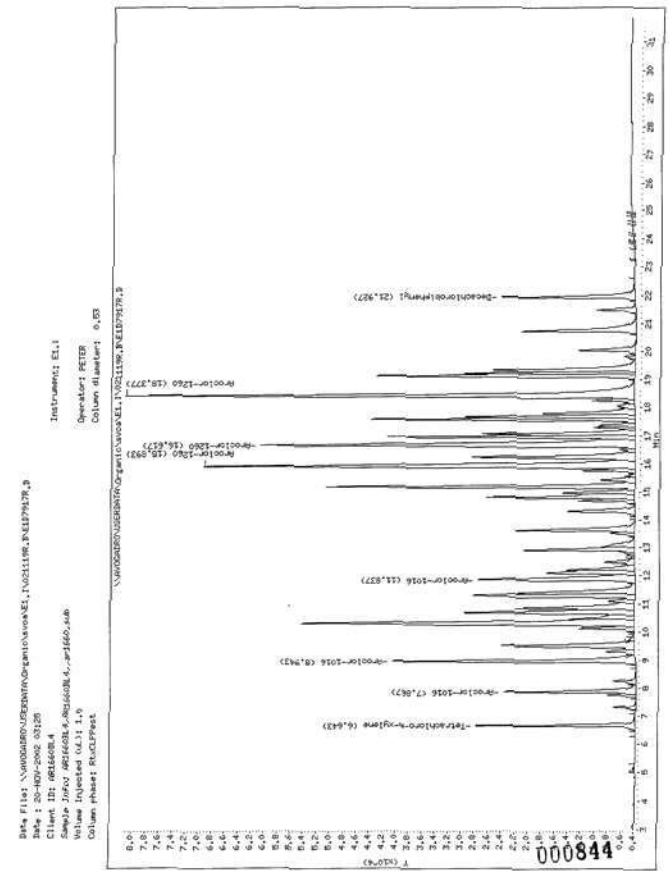
11/21/02

Data File: E1D7916F.D
Report Date: 21-Nov-2002 16:21

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).





Data File: E1D7917F.D
Report Date: 21-Nov-2002 16:21

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1D7917F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1D7917R.D
Inj Date : 20-NOV-2002 03:25
Sample Info: AR1660BL4,AR1660BL4,,ar1660.sub
Misc Info : 1,4,,1
Cal Date : 21-NOV-2002 10:22
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	*Value*	*Description*
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

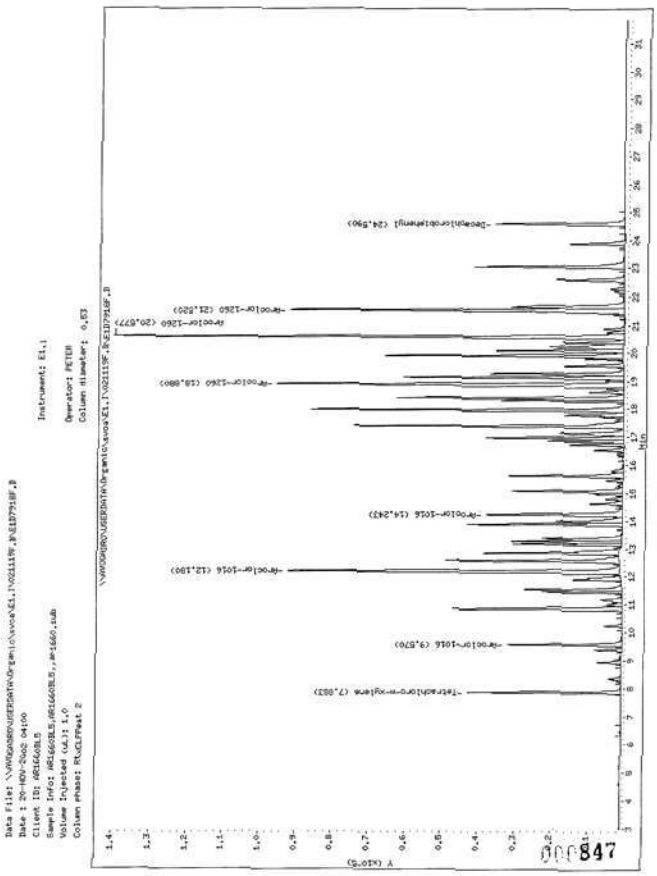
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.983	6.643	21535	23954	0.055	0.054		100.00
Aroclor-1016	9.870	7.067	17152	19909	2.4	2.6	80.00- 120.00	100.00
	12.183	8.743	48599	36757	2.4	2.4	257.63- 297.63	283.54
	14.243	11.827	19417	23613	2.7	2.5	85.94- 125.94	113.21
		Average of Peak Amounts =			2.6	2.6		
Decachlorobiphenyl	24.390	21.927	19087	30159	0.046	0.052		100.00(a)
Aroclor-1260	18.880	15.893	50594	65431	2.4	2.5	80.00- 120.00	100.00
	20.577	18.417	72643	96598	2.4	2.5	125.01- 165.01	143.59
	21.623	18.377	47753	77032	2.4	2.4	75.62- 115.62	94.38
		Average of Peak Amounts =			2.4	2.5		

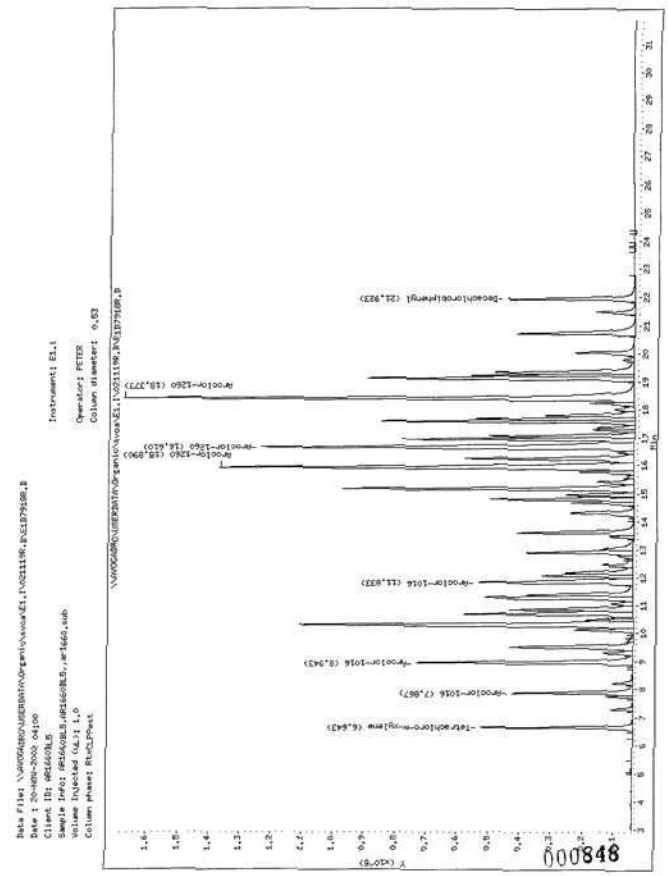
11/21/02

Data File: E1D7917F.D
Report Date: 21-Nov-2002 16:21

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).





Data File: E1D7918F.D
Report Date: 21-Nov-2002 16:21

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1D7918F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1D7918R.D
Inj Date : 20-NOV-2002 04:00
Sample Info: AR1660BL5,AR1660BL5,,ar1660.sub
Misc Info : 1,5,,1
Cal Date : 21-NOV-2002 10:22
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

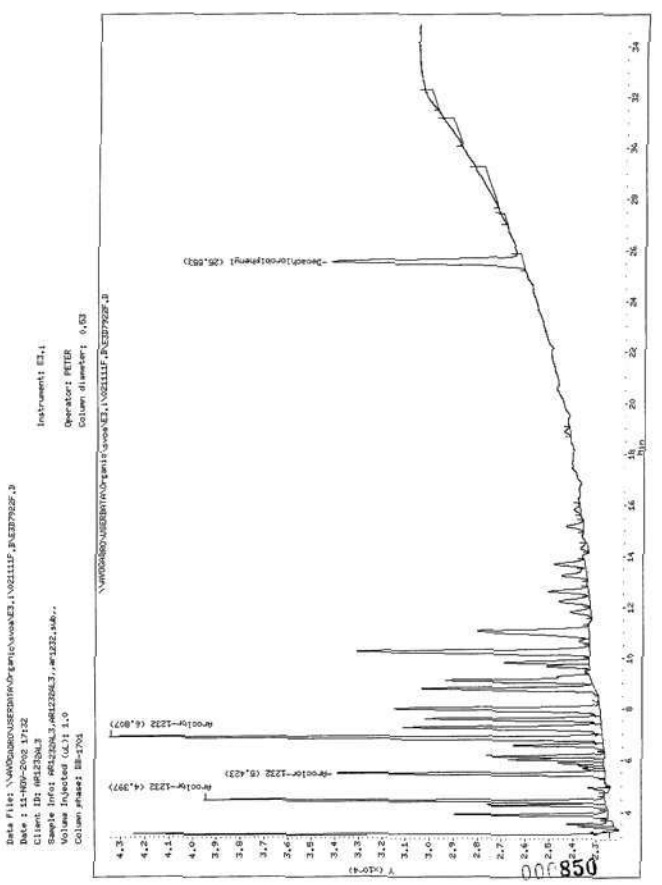
Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : RtxCLPPest
Col #2 Phase : RtxCLPPest

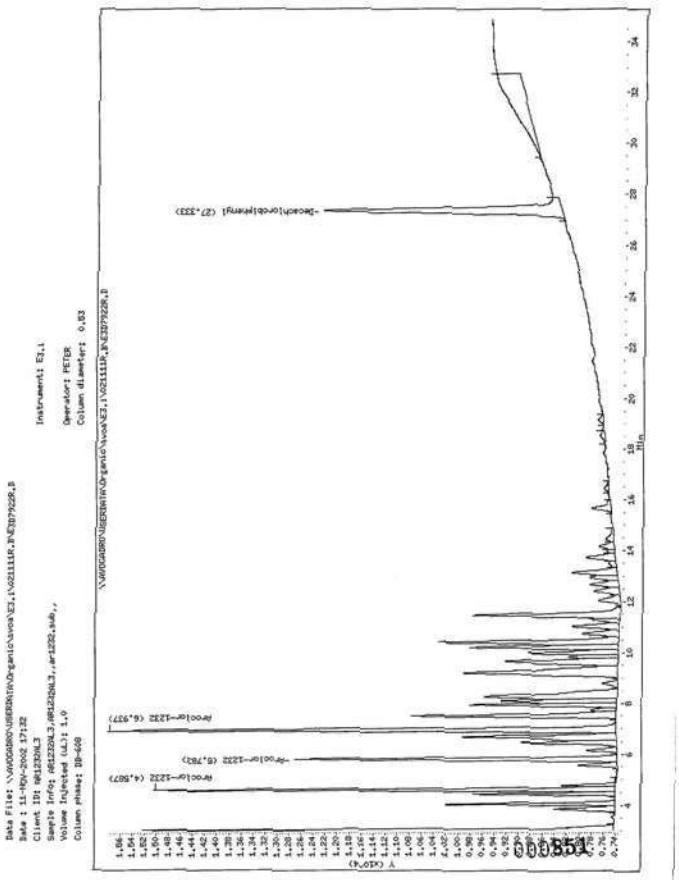
*Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)*

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.883	6.643	41451	48566	0.11	0.11		100.00
Aroclor-1016	9.570	7.867	31055	38564	4.3	5.0	89.00- 120.00	100.00
	12.190	8.943	30542	43108	4.8	4.7	257.63- 297.65	291.62
	14.243	11.833	37041	49485	5.1	5.0	86.94- 125.34	219.38
		Average of Peak Amounts =			4.7	5.0		
Decachlorobiphenyl	24.590	21.923	35195	40770	0.084	0.10		100.00
Aroclor-1260	18.880	15.890	94423	133289	4.4	5.0	80.00- 130.00	100.00
	20.677	18.610	139277	119583	4.7	5.0	125.01- 145.01	147.13
	21.520	18.377	91081	143720	4.6	5.0	95.62- 115.62	96.02
		Average of Peak Amounts =			4.6	5.0		

000849





Data File: E3D7922F.D
Report Date: 12-Nov-2002 16:17

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7922F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7922R.D
Inj Date : 11-NOV-2002 17:32
Sample Info: AR1232AL3,AR1232AL3,,ar1232.Sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:06
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1232.sub
Sub List #2 : ar1232.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

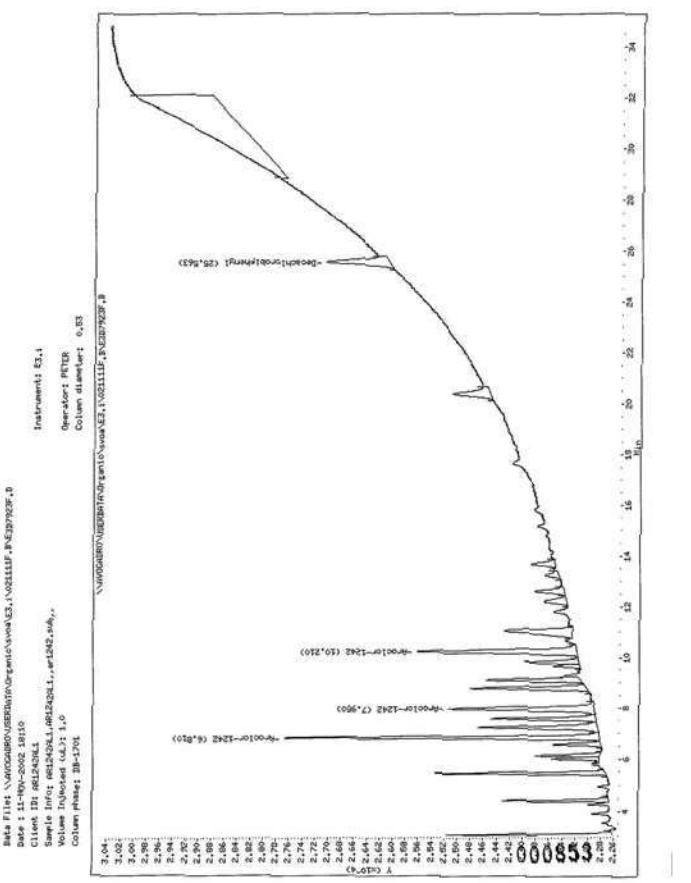
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.027	3.023	20043	7801	0.019	0.022		100.00(a)
Aroclor-1232	4.587	4.587	16876	7632	1.0	1.0	82.00- 120.00	100.00
	5.423	5.783	11286	5328	1.0	1.0	46.88- 86.88	66.88
	6.807	6.937	20743	8401	1.0	1.0	102.91- 142.91	122.91
			Average of Peak Amounts =		1.0	1.0		
Decachlorobiphenyl	25.553	27.333	8074	3957	0.017	0.020		100.00(a)

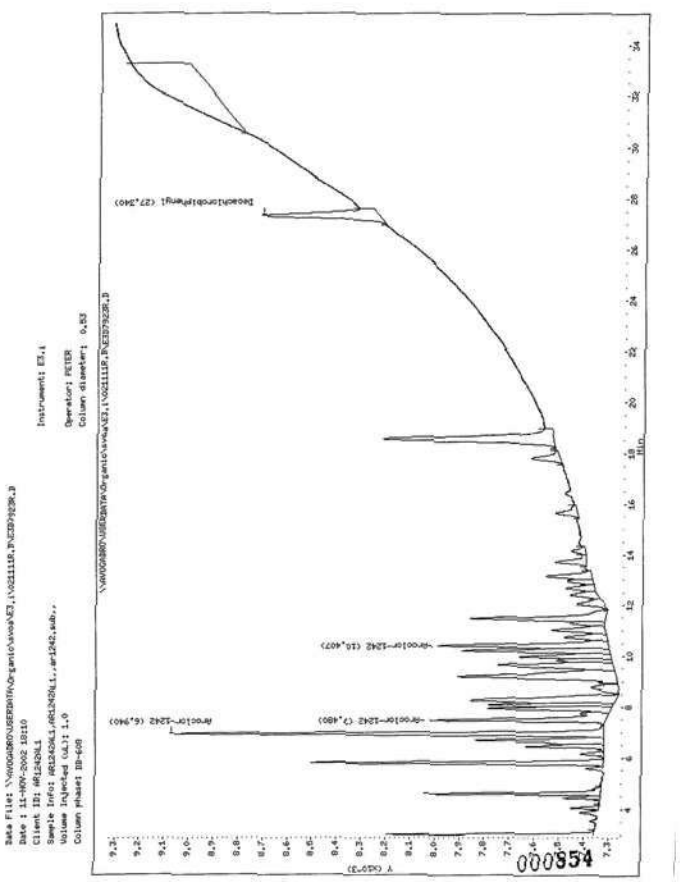
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

11/13/02

000852





Data File: E3D7923F.D
Report Date: 12-Nov-2002 16:17

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7923F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7923R.D
Inj Date : 11-NOV-2002 18:10
Sample Info: AR1242AL1,AR1242AL1,,ar1242.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:06
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1242.sub
Sub List #2 : ar1242.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

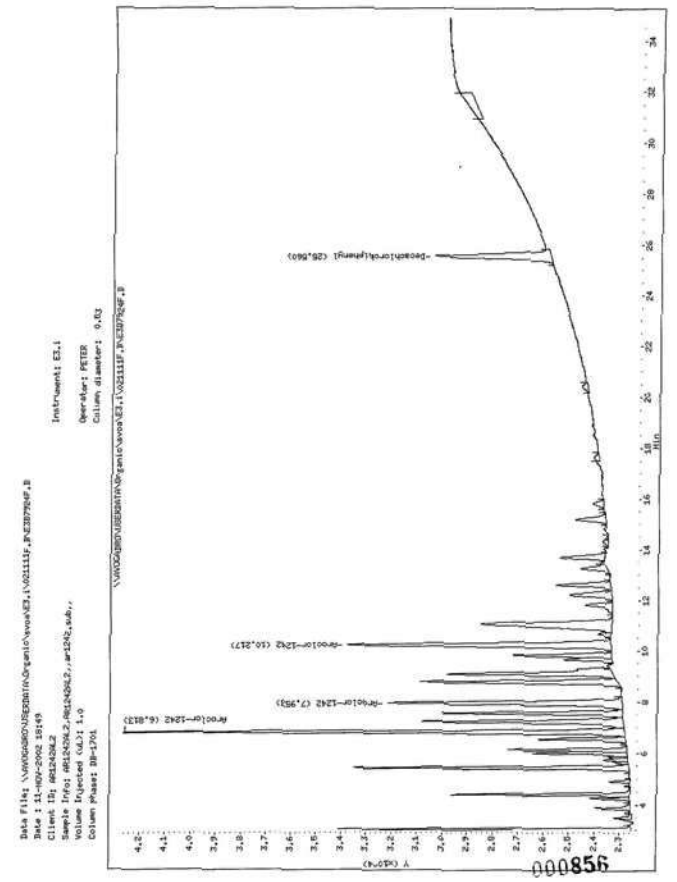
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

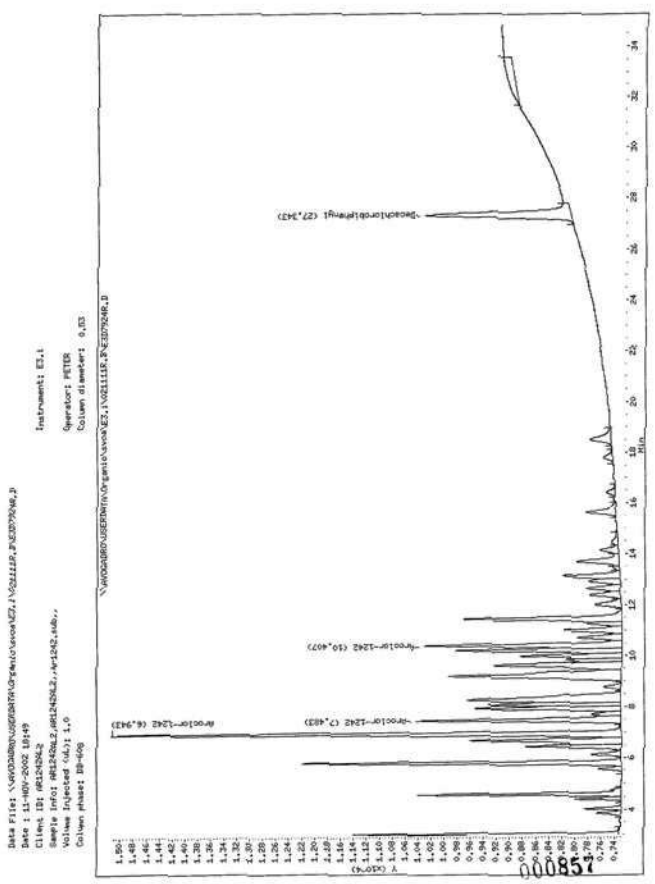
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.030	3.027	2523	839	0.0024	0.0024		100.00(a)
Aroclor-1242	7.950	10.407	2219	689		0.12	80.00- 120.00	100.00(a)
	6.810	6.940	4844	1759		0.12	249.60- 285.90	255.30(a)
	10.210	7.480	2443	756		0.12	84.82- 124.82	102.47(a)
			Average of Peak Amounts =		0.00	0.12		
Decachlorobiphenyl	25.543	27.343	975	474	0.0021	0.0024		100.00(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

11/13/02





Data File: E3D7924F.D
Report Date: 12-Nov-2002 16:17

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7924F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7924R.D
Inj Date : 11-NOV-2002 18:49
Sample Info: AR1242AL2,AR1242AL2,,ar1242.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:06
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1242.sub
Sub List #2 : ar1242.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

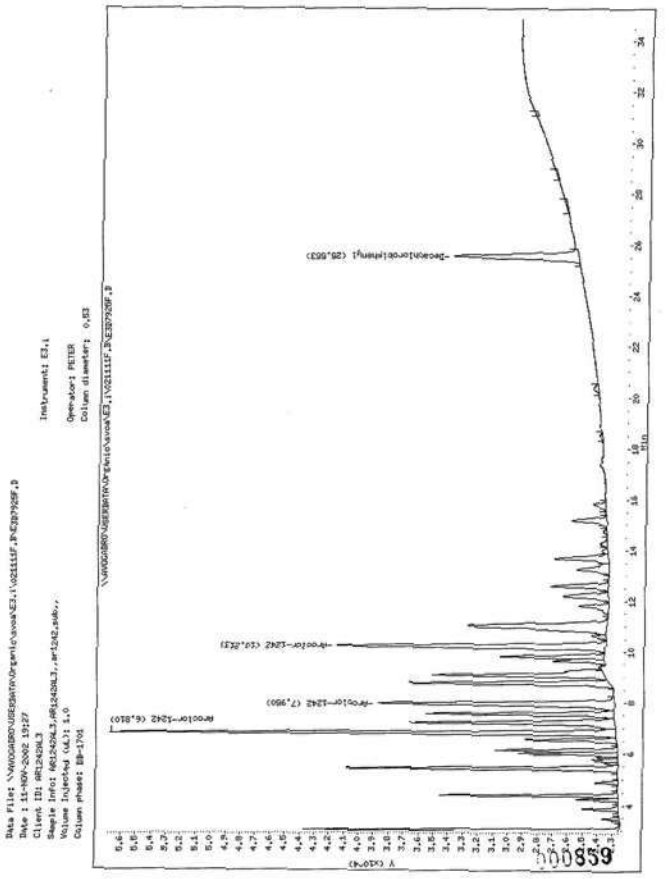
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

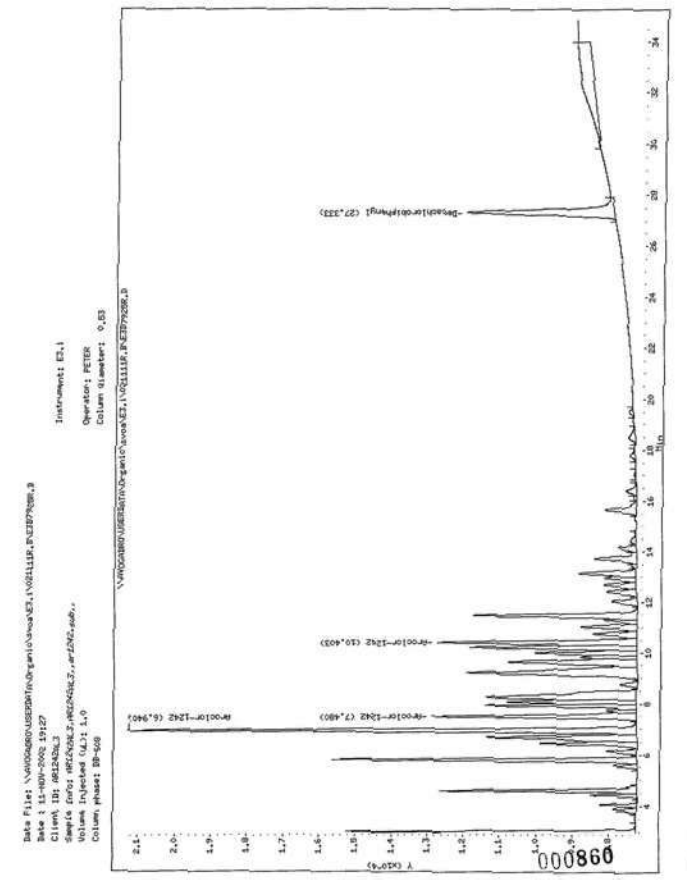
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.030	3.027	11942	4087	0.011	0.011		100.00(a)
Aroclor-1242	7.953	10.407	9226	3017	0.53	0.53	80.00- 120.00	100.00(a)
	6.813	6.943	13816	7840	0.52	0.54	198.44- 238.44	214.78(a)
	10.217	7.483	10389	1125	0.52	0.56	84.24- 124.24	212.42(a)
			Average of Peak Amounts =		0.52	0.54		
Decachlorobiphenyl	25.560	27.343	4591	2221	0.0098	0.011		100.00(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

11/13/02





Data File: E3D7925F.D
Report date: 12-Nov-2002 16:17

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7925F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7925R.D
Inj Date : 11-NOV-2002 19:27
Sample Info: AR1242AL3,AR1242AL3,,ar1242.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:06
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\R3_PCB_P.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\R3_PCB_R.m
Sub List #1 : ar1242.sub
Sub List #2 : ar1242.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

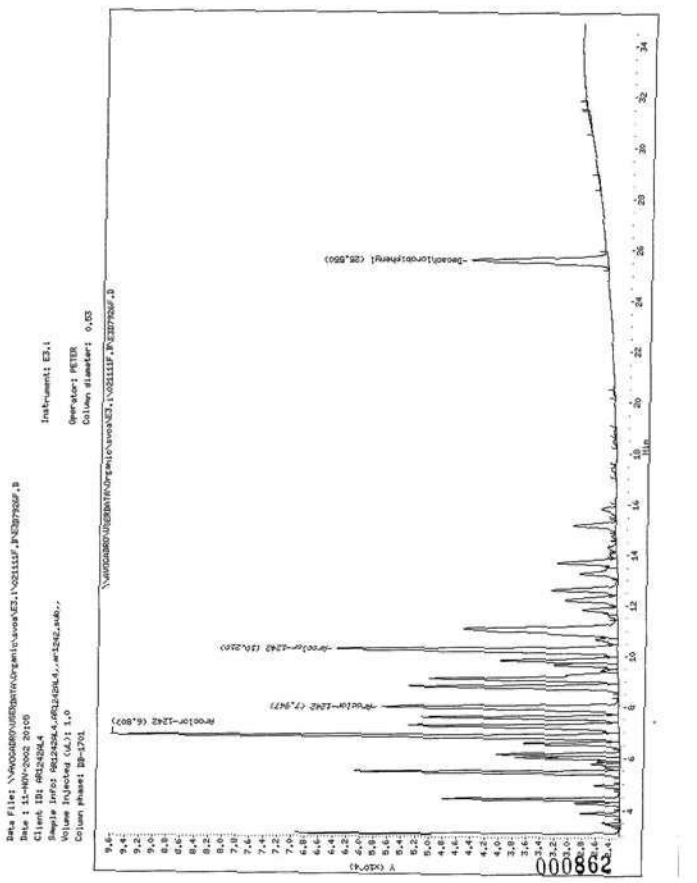
Name	Value	Description
DF	1.000	Dilution Factor
Uf	*1.000*	*Correction factor*
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

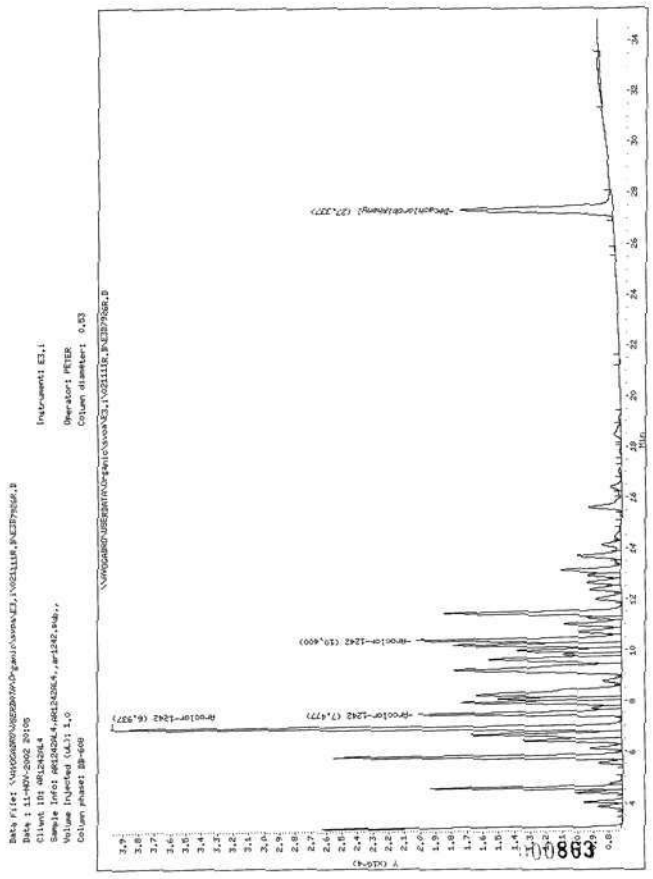
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.027	3.023	21275	7977	0.020	0.022		100.00(a)
Aroclor-1242	7.990	10.403	15853	5472	1.1	0.96	80.00- 120.00	100.00
	6.810	6.940	33938	14057	1.1	0.98	188.44- 238.44	214.08
	10.213	7.480	17998	5620	1.1	0.98	94.34- 134.34	113.53
			Average of Peak Amounts =		1.1	0.97		
Decachlorobiphenyl	28.553	27.333	8390	4066	0.018	0.020		100.00(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

000861





Data File: E3D7926F.D
Report Date: 12-Nov-2002 16:17

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7926F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7926R.D
Inj Date : 11-NOV-2002 20:05
Sample Info: AR1242AL4,AR1242AL4,,ar1242.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:07
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1242.sub
Sub List #2 : ar1242.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

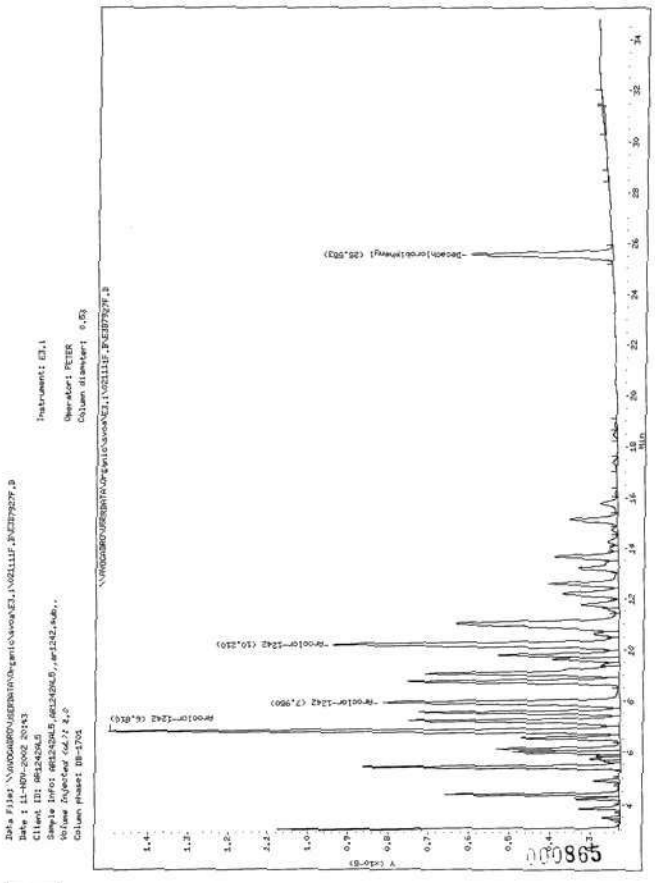
*Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)*

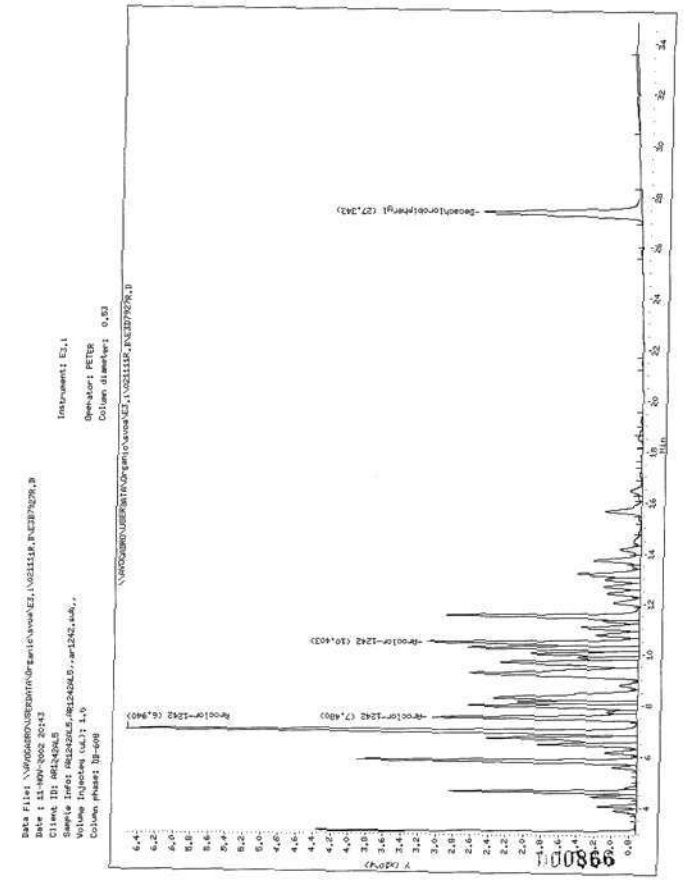
Name	Value	Description
DF	*1.000*	*Dilution Factor*
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

COMpound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.023	3.020	46694	13056	0.045	0.051		100.00(a)
Aroclor-1242	7.943	10.400	33985	13006	2.7	2.8	80.00- 120.00	100.00
	6.907	6.937	73137	32473	2.7	2.2	198.44- 298.44	215.50
	10.210	7.477	40411	12910	2.7	3.2	34.34- 134.34	128.91
			Average of Peak Amounts =		2.7	2.2		
Decachlorobiphenyl	25.550	27.337	19507	9482	0.042	0.048		100.00(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).





Data File: E3D7927F.D
Report Date: 12-Nov-2002 16:17

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7927F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7927R.D
Inj Date : 11-NOV-2002 20:43
Sample Info: AR1242AL5,AR1242AL5,,ar1242.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:07
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1242.sub
Sub List #2 : ar1242.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

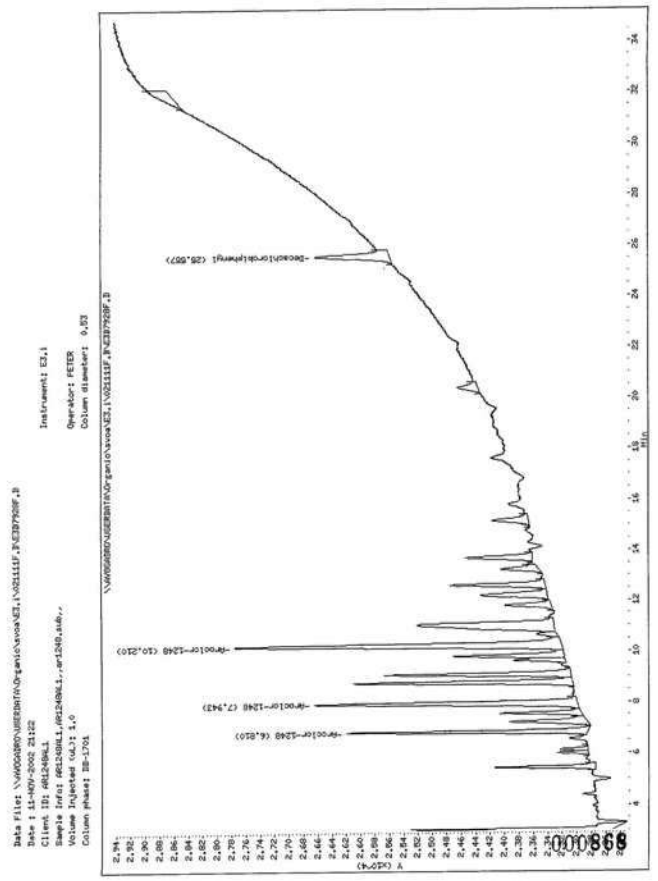
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

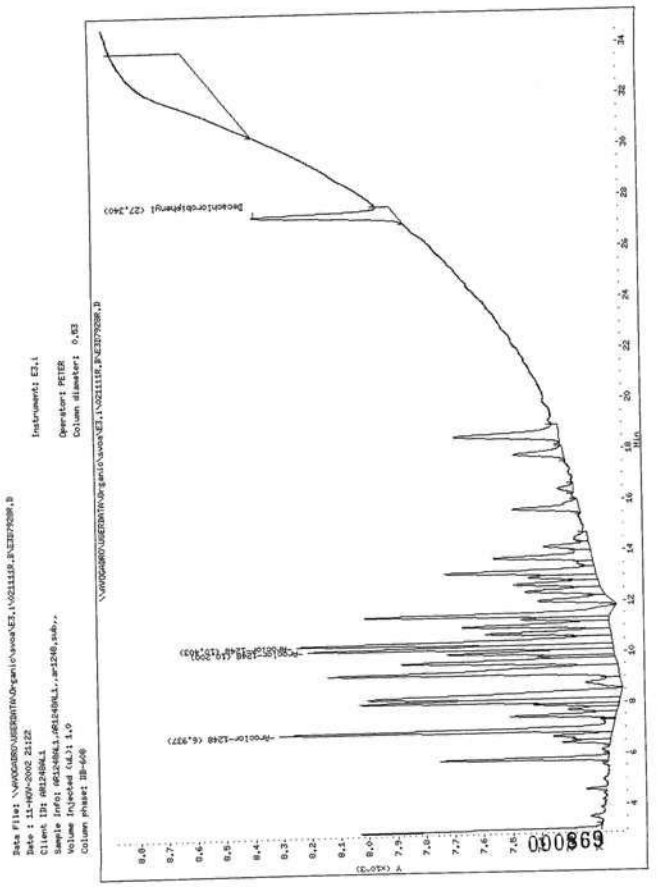
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.027	3.023	84321	36416	0.081	0.10		100.00(a)
Aroclor-1242	7.950	10.403	58855	23372	4.9	4.2	80.00- 120.00	100.00
	6.810	6.940	126920	58114	4.9	4.0	198.44- 238.44	215.65
	10.210	7.480	70843	33233	4.9	4.0	94.34- 134.34	120.37
		Average of Peak Amounts =			4.9	4.1		100.00
Decachlorobiphenyl	25.553	27.343	35061	17651	0.075	0.089		

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

11/13/02





Data File: E3D7928F.D
Report Date: 12-Nov-2002 16:17

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7928F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7928R.D
Inj Date : 11-NOV-2002 21:22
Sample Info: AR1248AL1,AR1248AL1,,ar1248.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:07
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1248.sub
Sub List #2 : ar1248.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

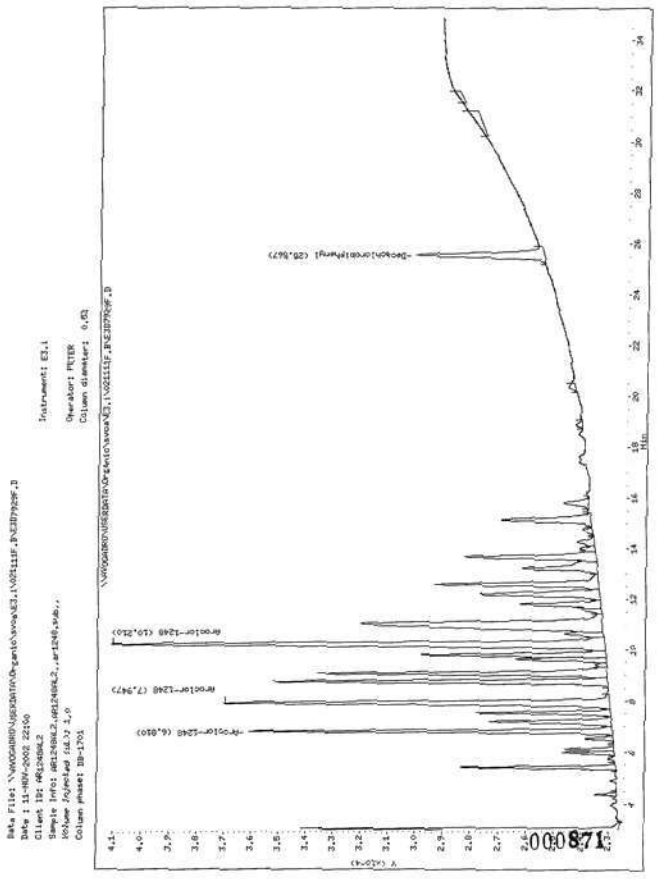
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

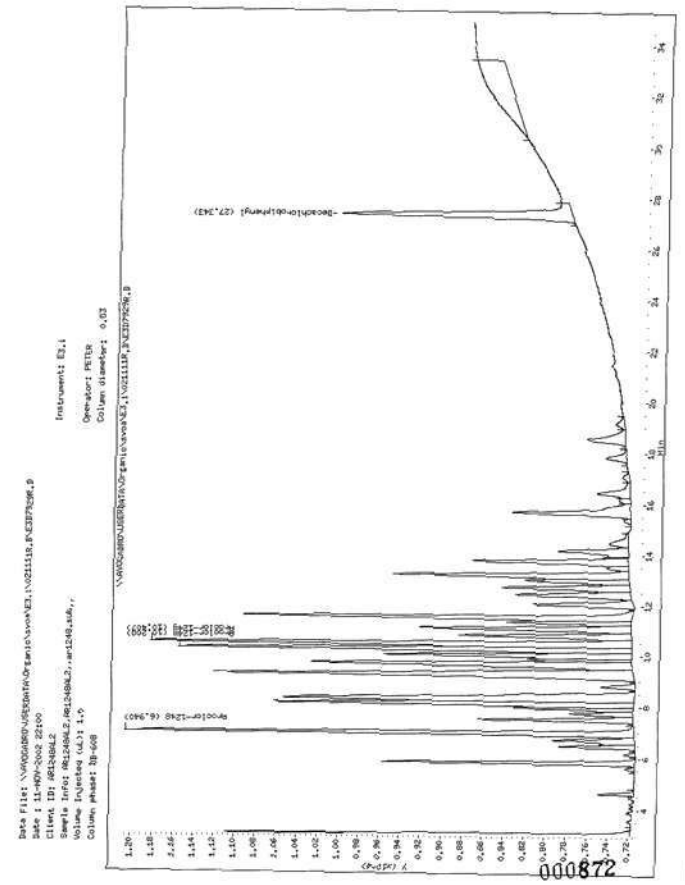
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.023	3.020	2866	840	0.0027	0.0024		100.00(a)
Aroclor-1248	6.810	6.937	9341	1143		0.12	80.00- 120.00	100.00(a)
	7.943	10.205	3648	1063		0.13	68.35- 108.35	91.40(a)
	10.210	10.403	4551	1100		0.12	75.45- 115.45	96.58(a)
		Average of Peak Amounts =			0.00	0.13		100.00(a)
Decachlorobiphenyl	25.557	27.340	1850	507	0.0022	0.0025		

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

11/13/02





Data File: E3D7929F.D
Report Date: 12-Nov-2002 16:17

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7929F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7929R.D
Inj Date : 11-NOV-2002 22:00
Sample Info: AR1248AL2,AR1248AL2,,ar1248.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:07
Operator : PETER
Inst ID : E3.i
Dil Factor : *1.000000*

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\R3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\R3_PCB_R.m
Sub List #1 : ar1248.sub
Sub List #2 : ar1248.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

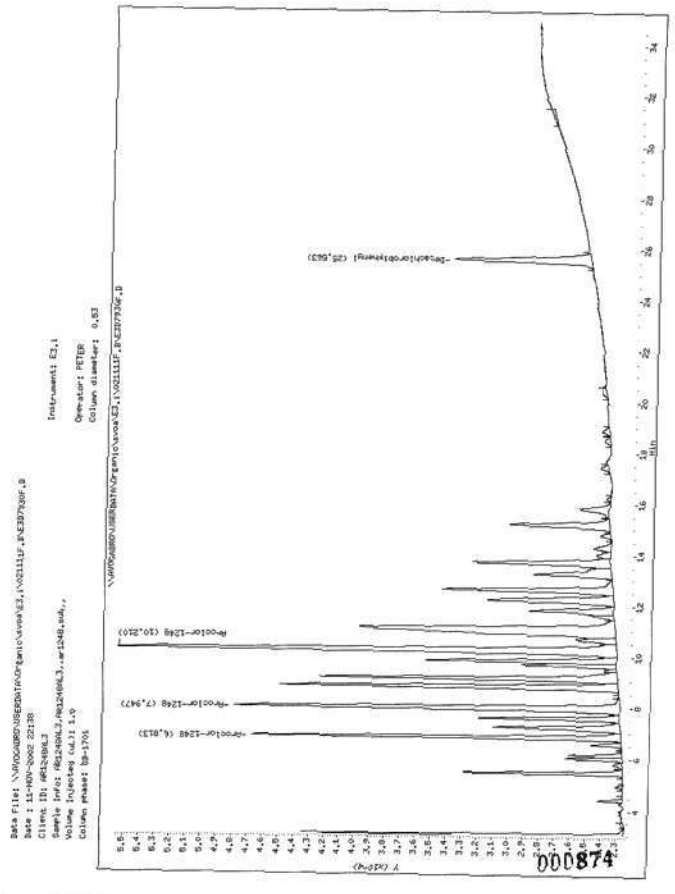
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-Xylene	9.027	9.023	11555	3917	0.011	0.011		100.0(a)
Aroclor-1248	6.810	6.940	13217	4910	0.50	0.52	80.00- 120.00	100.0(a)
	7.947	10.200	14043	4382	0.51	0.52	84.53- 124.53	106.3(a)
	10.210	10.407	17910	6694	*0.50*	*0.52*	*114.66- 154.66*	*229.3(e)*
			Average of Peak Amounts =		0.50	0.52		
Decachlorobiphenyl	25.567	27.343	4651	2327	0.0089	0.011		100.0(a)

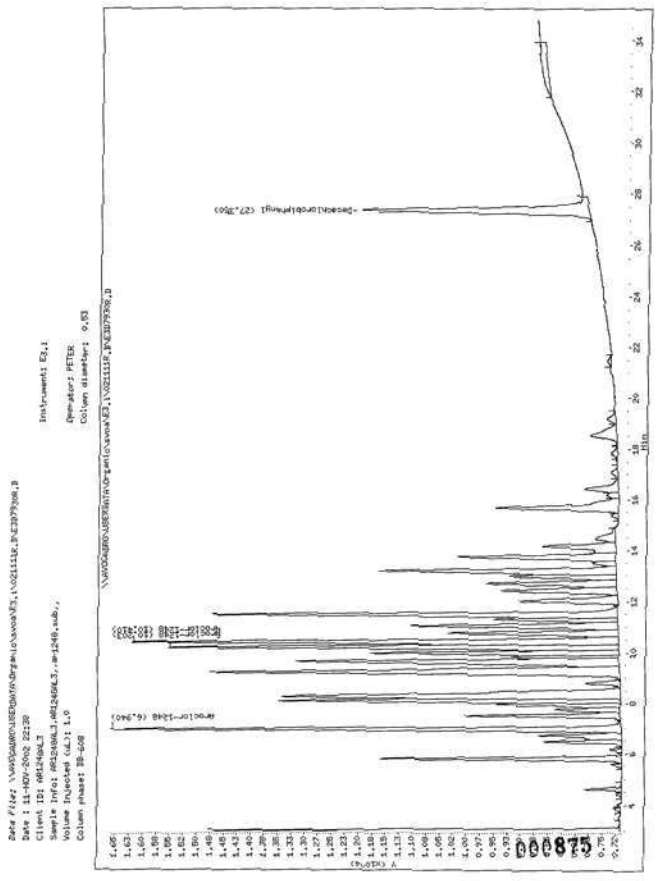
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

11/13/02

000873





Data File: E3D7930F.D
Report Date: 12-Nov-2002 16:17

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7930F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7930R.D
Inj Date : *11-NOV-2002 22:38*
Sample Info: AR1248AL3,,AR1248AL3,,ar1248.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:07
Operator : *PETER*
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1248.Sub
Sub List #2 : ar1248.Sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

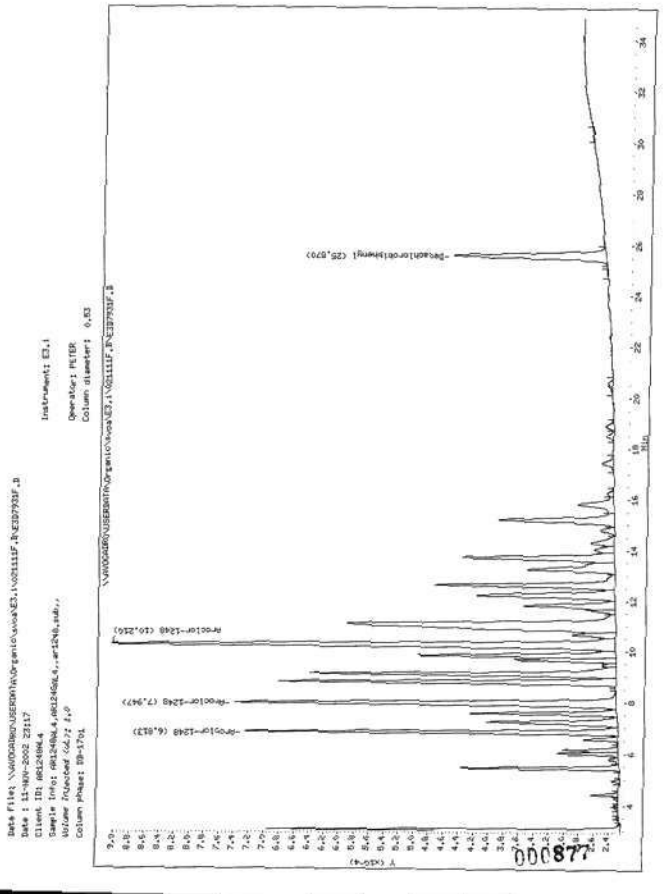
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.207	3.223	32031	7409	0.020	0.021		100.00(a)
Aroclor-1248	6.813	6.940	23972	9404	1.1	1.0	80.00- 120.00	100.00
	7.947	10.363	25057	8308	1.2	0.89	86.53- 124.53	104.53
	10.118	10.410	32339	8976	1.1	1.0	114.86- 154.86	134.86
			Average of Peak Amounts =		*1.1*	*1.00*		
Decachlorobiphenyl	25.563	27.350	8838	4183	0.019	0.021		100.00(a)

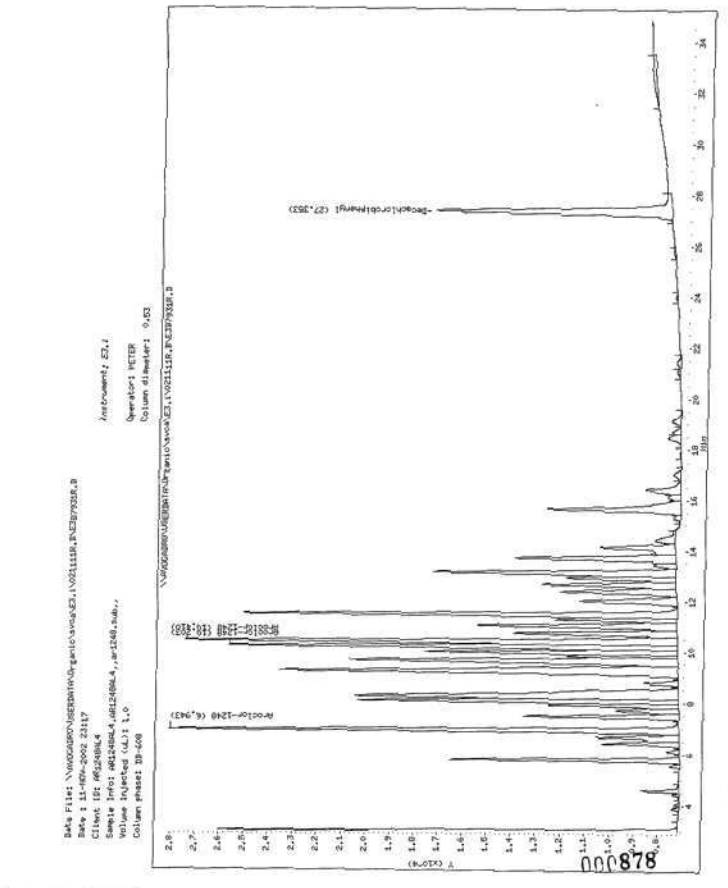
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

11/15/02

000876





Data File: E3D7931F.D
Report Date: 12-Nov-2002 16:17

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7931F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7931R.D
Inj Date : 11-NOV-2002 23:17
Sample Info: AR1248AL4,AR1248AL4,,ar1248.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:07
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : *\\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m*
Sub List #1 : ar1248.sub
Sub List #2 : ar1248.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

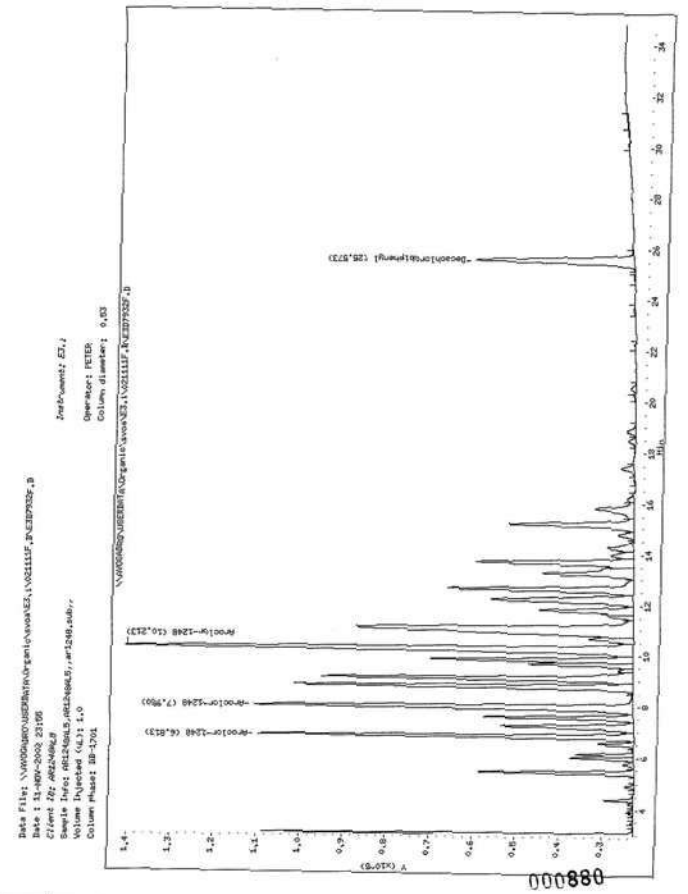
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	*1.000*	*Volume injected (uL)*

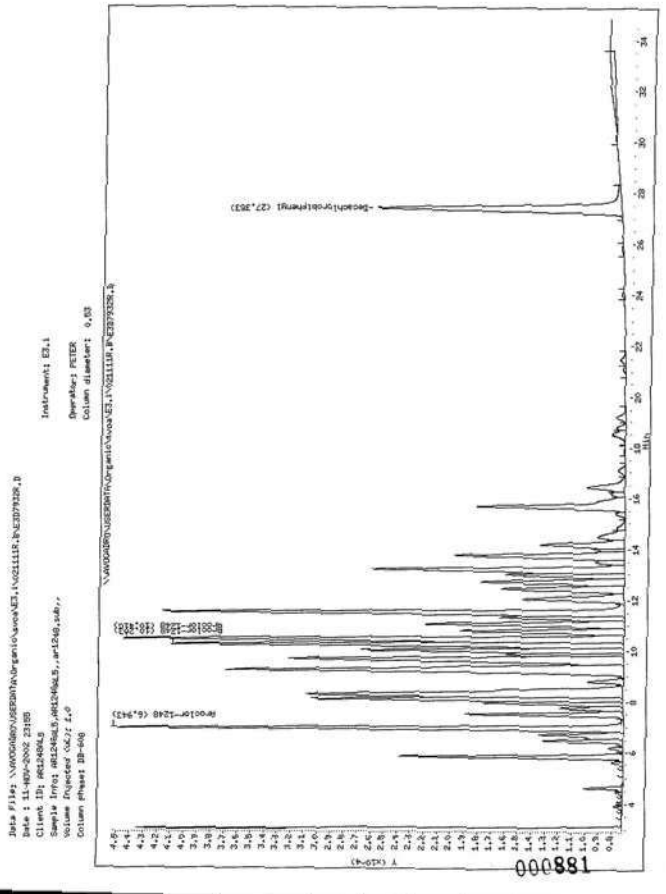
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.027	3.023	47084	18833	0.045	0.059		100.00(a)
Aroclor-1248	6.813	6.943	43633	21904	2.7	2.2	80.00- 120.00	100.00
	7.947	10.203	50792	18419	2.7	2.2	84.53- 134.53	102.26
	10.210	10.410	67052	20160	2.7	2.2	114.86- 154.86	135.10
			Average of Peak Amounts =		2.7	2.2		
Decachlorobiphenyl	25.570	27.353	20214	9682	0.043	0.048		100.00(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

11/13/02





Data File: E3D7932F.D
Report Date: 12-Nov-2002 16:17

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7932F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7932R.D
Inj Date : 11-NOV-2002 23:55
Sample Info: AR1248AL5,AR1248AL5,,ar1248.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:07
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

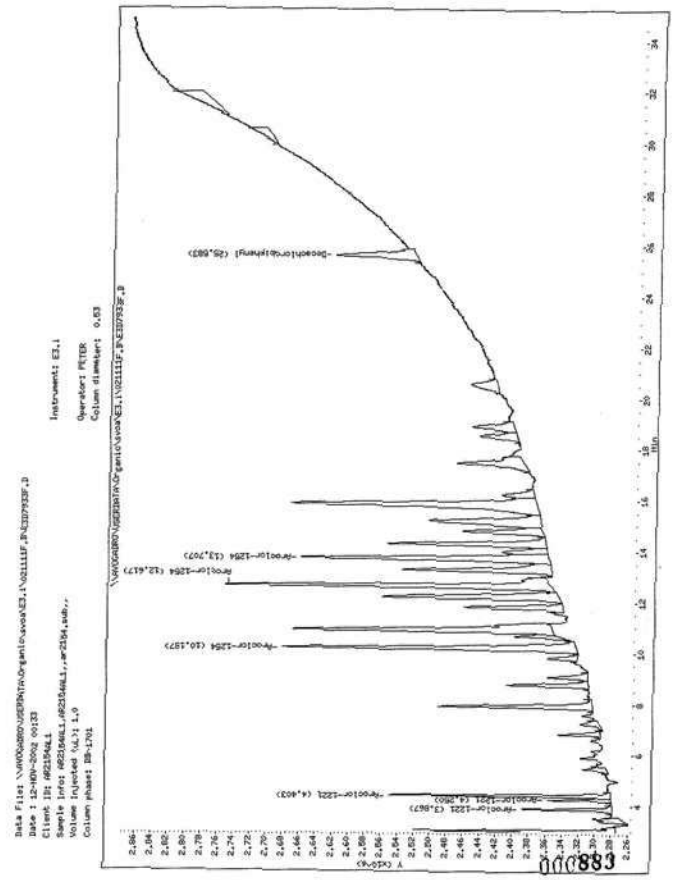
Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1248.sub
Sub List #2 : ar1248.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

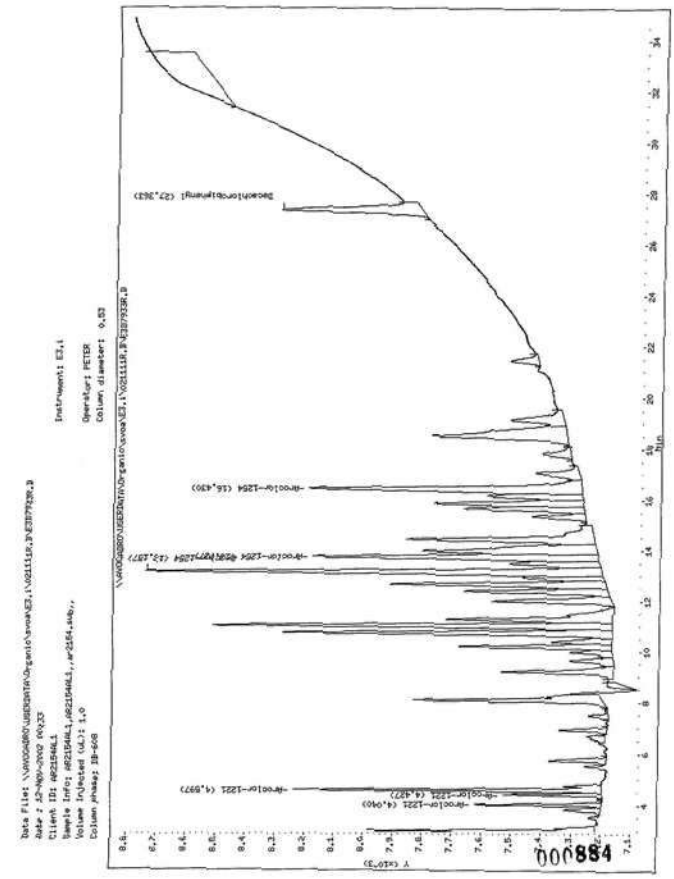
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	*1.000*	*Correction factor*
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.027	3.023	53641	36249	0.082	0.10		100.00
Aroclor-1248	6.813	6.943	56844	38130	4.9	4.1	80.00- 120.00	100.00
	7.950	10.203	67460	33745	4.8	4.0	84.53- 124.53	100.71
	10.213	10.410	117303	37236	4.9	4.2	114.86- 154.86	135.07
			Average of Peak Amounts =		4.9	4.1		
Decachlorobiphenyl	25.573	27.353	36427	18151	0.078	0.091		100.00

11/13/02





Data File: B3D7933F.D
Report Date: 12-Nov-2002 16:17

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\B3D7933F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\B3D7933R.D
Inj Date : 12-NOV-2002 00:33
Sample Info: AR2154AL1,AR2154AL1,,ar2154.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:08
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar2154.sub
Sub List #2 : ar2154.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

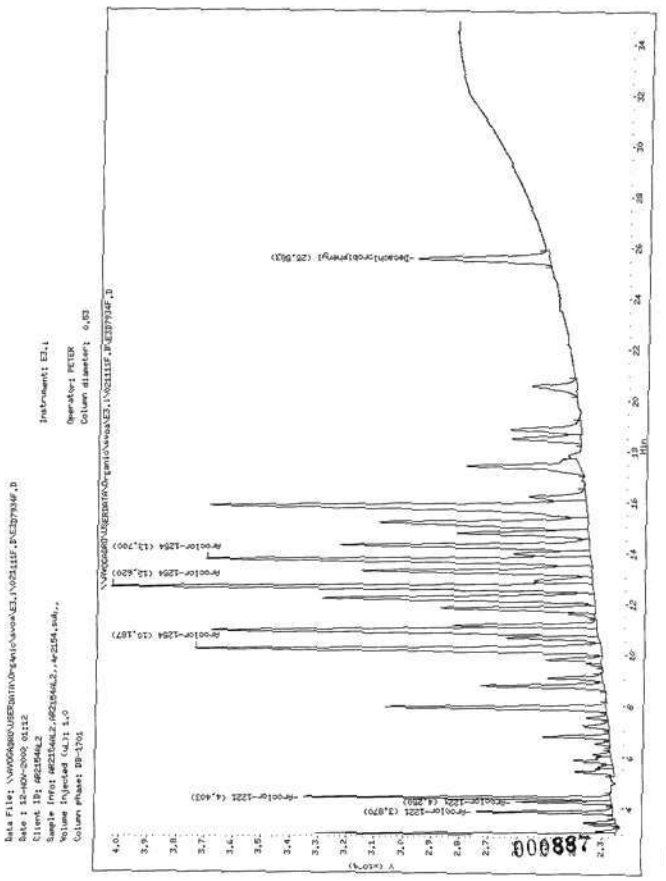
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

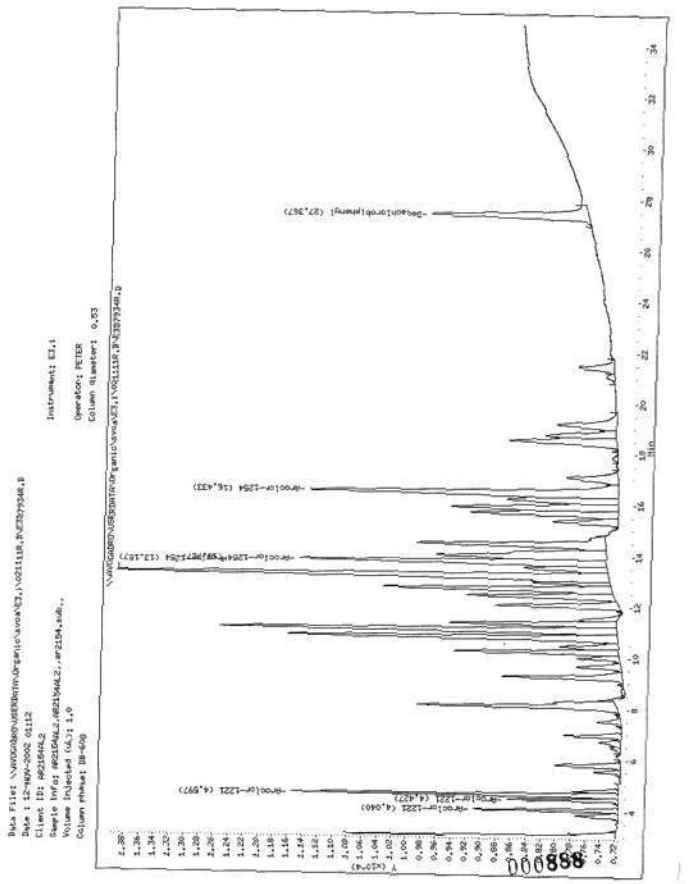
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.030	3.027	2479	764	0.0033	0.0022		100.00(a)
Aroclor-1221	3.867	4.040	1088	439		0.00024	80.00- 120.00	100.00(a)
	4.250	4.427	765	329			56.02- 96.02	77.78(m)
	4.403	4.597	2683	1017			201.00- 241.00	245.15(m)
		Average of Peak Amounts =			0.00	0.00024		
Aroclor-1254	10.187	16.430	3573	921		0.12	80.00- 120.00	100.00(a)
	12.617	13.157	3968	1547		0.12	135.87- 175.87	156.68(m)
	13.707	13.727	3030	965		0.13	77.66- 117.66	104.76(m)
		Average of Peak Amounts =			0.00	0.12		
Decachlorobiphenyl	25.583	27.343	983	477	0.0021	0.0024		100.00(a)

Data File: B3D7933F.D
Report Date: 12-Nov-2002 16:17

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).





Data File: E3b7934F.D
Report Date: 12-Nov-2002 16:17

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7934F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7934R.D
Inj Date : 12-NOV-2002 01:12
Sample Info: AR2154AL2,AR2154AL2,,ar2154.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:08
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar2154.sub
Sub List #2 : ar2154.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.830	3.827	10483	3655	0.010	0.010		100.00(a)
Aroclor-1221	3.870	4.040	4754	1893	0.52	0.51	80.00- 120.00	100.00(a)
	4.250	4.427	3328	1483	0.51	0.51	50.90- 90.90	70.00(a)
	4.403	4.597	10751	4390	0.53	0.52	200.54- 240.54	226.15(a)
		Average of Peak Amounts =			0.52	0.51		
Aroclor-1254	10.187	16.433	14279	4131	0.53	0.53	80.00- 120.00	100.00(a)
	13.820	13.157	16880	6590	0.52	0.54	102.34- 142.34	118.27(a)
	13.700	13.727	13504	4229	0.52	0.54	79.59- 219.53	96.61(a)
		Average of Peak Amounts =			0.52	0.54		
Decachlorobiphenyl	25.583	27.367	4570	2108	0.0098	0.010		100.00(a)

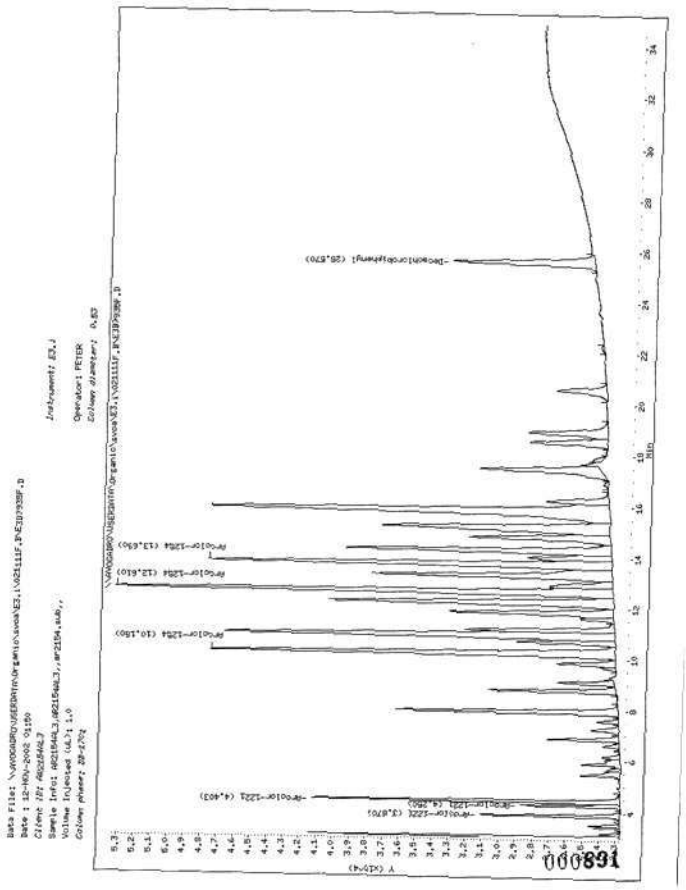
000889

Data File: E3D7934F.D
Report Date: 12-Nov-2002 16:17

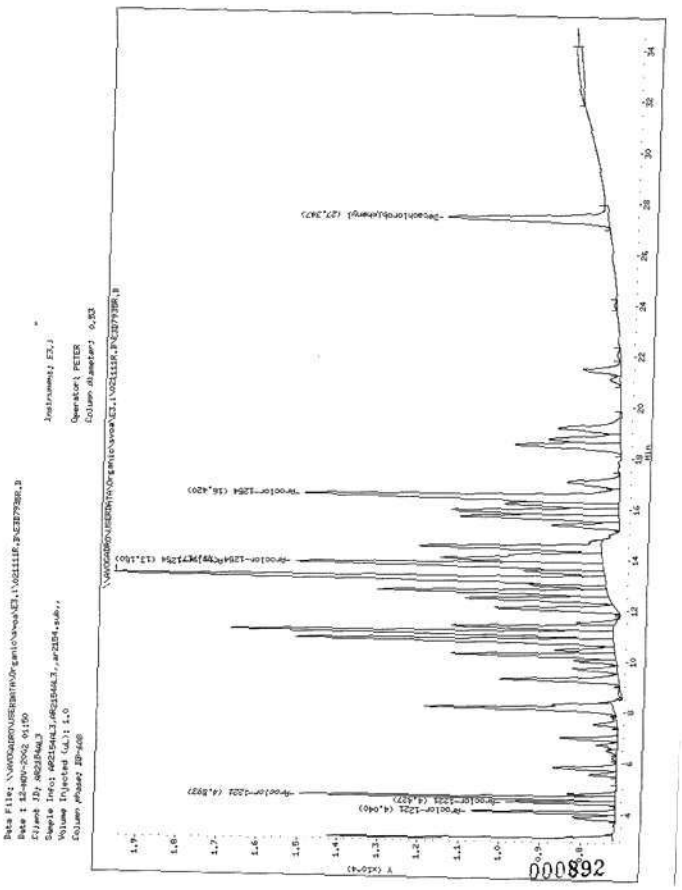
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

000890



000891



000892

Data File: B3D7935F.D
Report Date: 12-Nov-2002 16:18

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\B3.i\021111F.B\B3D7935F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\B3.i\021111R.B\B3D7935R.D
Inj Date : 12-NOV-2002 01:50
Sample Info: AR2154AL3,AR2154AL3,,ar2154.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:08
Operator : PETER
Inst ID : B3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\B3.i\021111F.B\B3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\B3.i\021111R.B\B3_PCB_R.m
Sub List #1 : ar2154.sub
Sub List #2 : ar2154.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	*1.000*	*Dilution Factor*
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	*1000.000*	*Volume of sample extracted (ml)*
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-Xylene	3.030	3.027	18677	7038	0.038	0.020		100.00(a)
Aroclor-1221	3.670	4.040	8577	3519	1.1	1.0	80.00- 120.00	100.00
	4.255	4.427	5339	2675	1.1	1.1	50.20- 80.90	70.90
	4.405	4.593	18475	7777	1.1	1.1	200.54- 240.54	220.54
			Average of Peak Amounts =		1.1	1.1		
Aroclor-1254	10.185	14.420	24367	7775	1.1	1.0	80.00- 120.00	100.00
	12.410	13.150	26811	12119	1.1	0.99	102.34- 142.34	122.34
	13.690	13.717	24353	7593	1.1	1.00	79.53- 119.53	99.53
			Average of Peak Amounts =		1.1	1.00		
Decachlorobiphenyl	25.570	27.347	8494	3948	0.018	0.020		100.00(a)

11/13/02

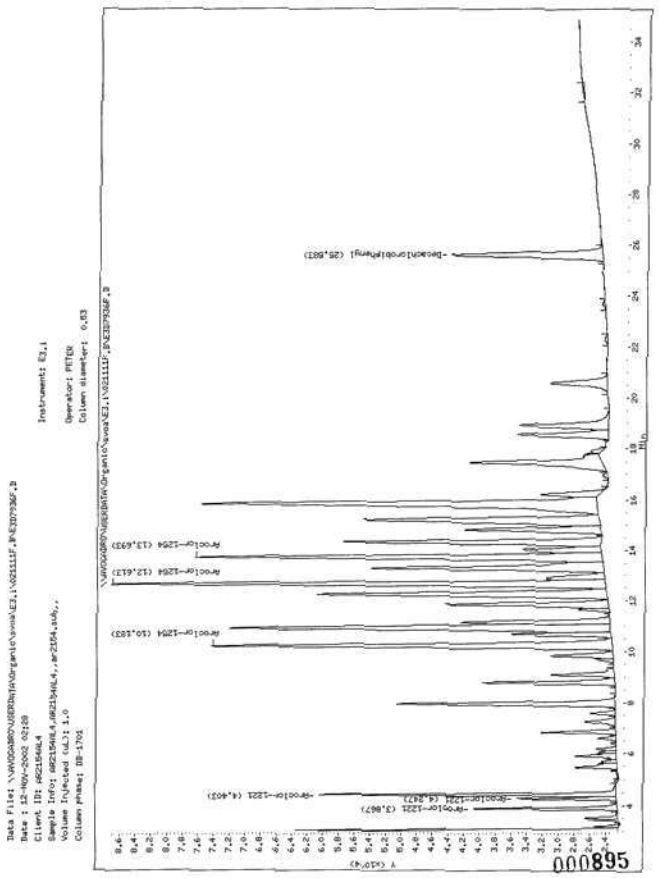
000893

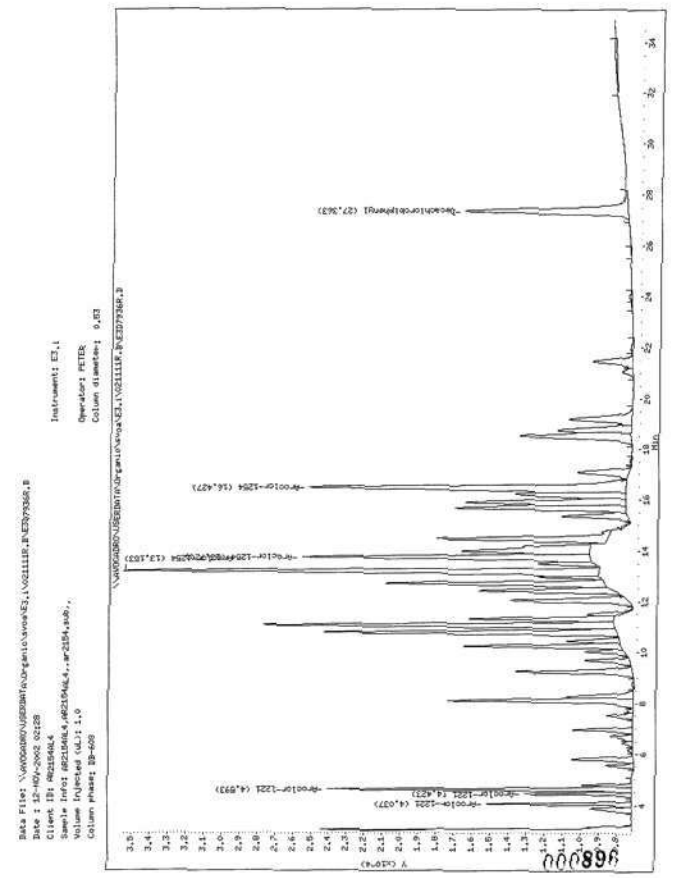
Data File: B3D7935F.D
Report Date: 12-Nov-2002 16:18

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

000894





Data File: E3D7936F.D
Report Date: 12-Nov-2002 16:18

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7936F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7936R.D
Inj Date : 12-NOV-2002 02:28
Sample Info: AR2154AL4,AR2154AL4,,ar2154.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:08
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar2154.sub
Sub List #2 : ar2154.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.027	3.023	41002	17103	0.036	0.048		100.00(a)
Aroclor-1221	3.867	4.037	18180	8030	2.7	2.6	80.00- 120.00	100.00
	4.247	4.423	12676	5947	2.7	2.6	50.92- 90.90	69.45
	4.403	4.593	37740	16913	2.7	2.6	200.54- 240.54	207.48
			Average of Peak Amounts =		2.7	2.6		
Aroclor-1254	10.183	16.427	51093	17584	2.6	2.3	80.00- 120.00	100.00
	12.423	*13.183*	*42949*	*26381*	*2.8*	*2.2*	*202.54- 242.54*	*123.20*
	13.693	13.730	51881	15996	2.6	2.1	79.53- 119.53	101.54
			Average of Peak Amounts =		2.6	2.2		
Decachlorobiphenyl	25.583	27.343	19256	9038	0.041	0.048		100.00(a)

11/15/02

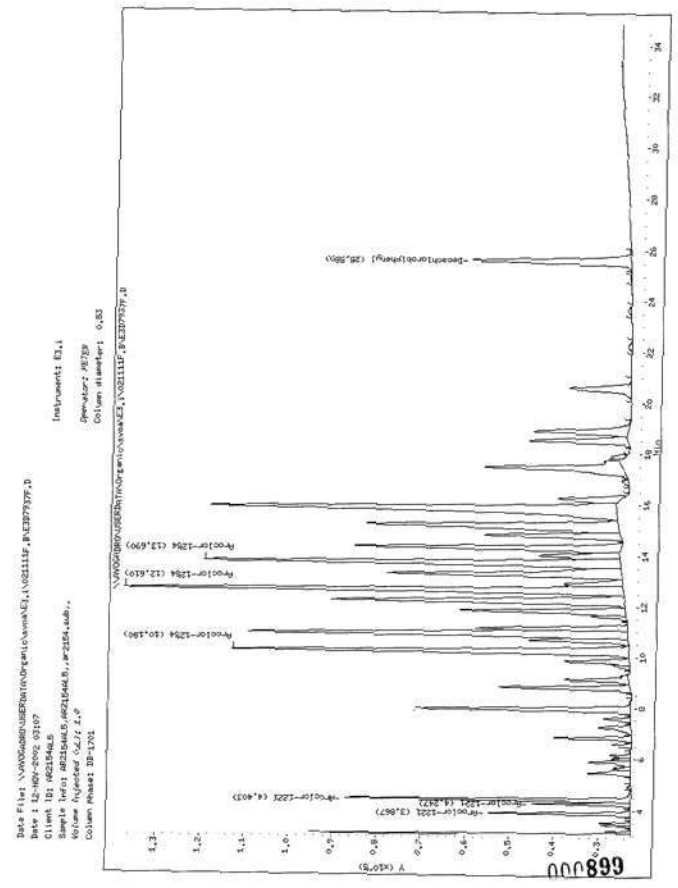
000897

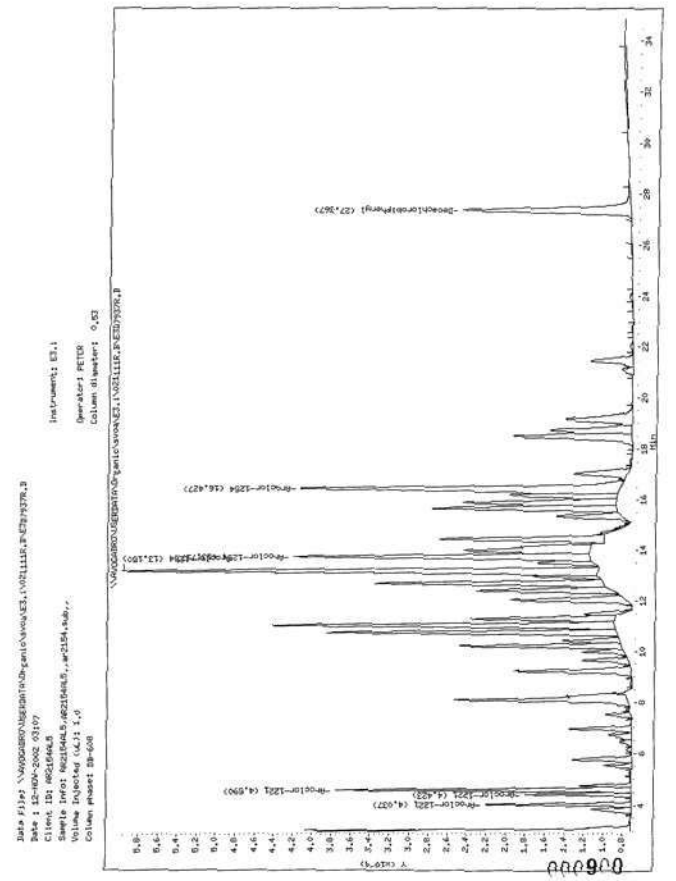
Data File: E3D7936F.D
Report Date: 12-Nov-2002 16:18

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

000898





Data File: E3D7937F.D
Report Date: 12-Nov-2002 16:18

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7937F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7937R.D
Inj Date : 12-NOV-2002 03:07
Sample Info: AR2154AL5,AR2154AL5,,ar2154.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:08
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar2154.sub
Sub List #2 : ar2154.sub
Col #1 Phase : DB-1701
Col #2 Phase : *DB-608*

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

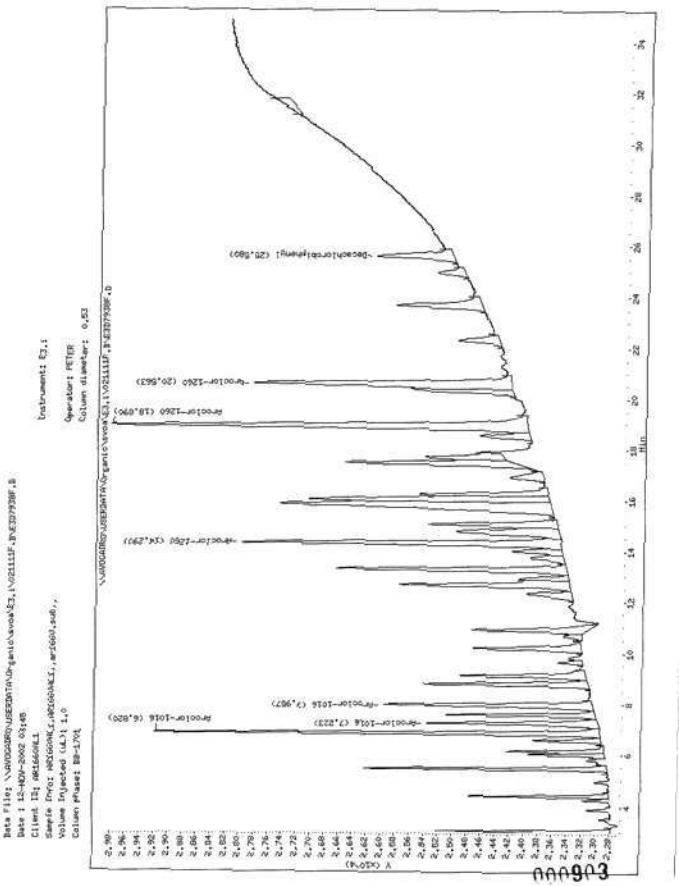
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	*1.000*	*Volume injected (uL)*

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.027	3.023	72444	33492	0.089	0.094		100.00(m)
Aroclor-1221	3.867	4.037	31737	14918	4.9	4.9	80.00- 120.00	100.00
	4.247	4.423	21876	10826	4.9	4.9	50.90- 90.90	68.93
	4.403	4.590	46367	30353	4.8	4.9	200.54- 240.54	202.81
		Average of Peak Amounts =			4.9	4.9		
Aroclor-1254	*10.180*	*10.427*	*89672*	*32871*	*4.2*	*80.00- 120.00*		*200.00*
	12.610	13.150	112323	49046	4.9	4.0	102.34- 142.34	125.26
	13.490	13.717	93697	30463	4.8	4.0	79.53- 119.53	104.49
		Average of Peak Amounts =			4.9	4.1		
Decachlorobiphenyl	25.580	27.367	35493	17286	0.076	0.086		100.00(m)

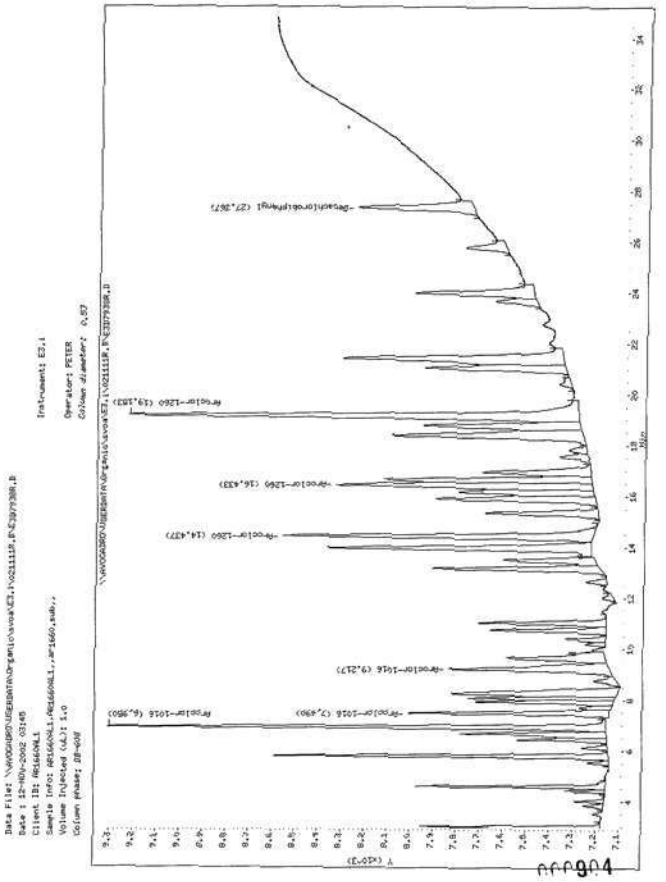
Data File: E3D7937F.D
Report Date: 12-Nov-2002 16:18

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).



000903



000904

Data File: *E3D7938F.D*
Report Date: 12-Nov-2002 16:18

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7938F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7938R.D
Inj Date : 12-NOV-2002 03:45
Sample Info: AR1660AL1,AR1660AL1,,ar1660.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:08
Operator : PETER
Inst ID : *E3.i*
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	*1.000*	*Volume injected (uL)*

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.030	3.027	2462	774	0.0023	0.0022		100.00(A)
Aroclor-1016	7.223	9.217	2391	694		0.12	80.00- 120.00	100.00(A)
	6.820	6.950	6252	2152		0.12	284.55- 334.55	310.09(A)
	7.357	*7.480*	*2902*	*867*		0.12	305.31- 145.31	134.93(A)
			Average of Peak Amounts =		0.00	0.12		
Decachlorobiphenyl	25.580	27.367	1071	503	0.0023	0.0025		100.00(A)
Aroclor-1260	14.290	14.437	4490	1339		0.13	80.00- 120.00	100.00(A)
	18.890	16.433	3832	1107		0.12	71.99- 111.99	82.67(A)
	20.563	19.153	3439	1944		*0.22*	*161.62- 161.62*	*145.28(A)*
			Average of Peak Amounts =		0.00	0.12		

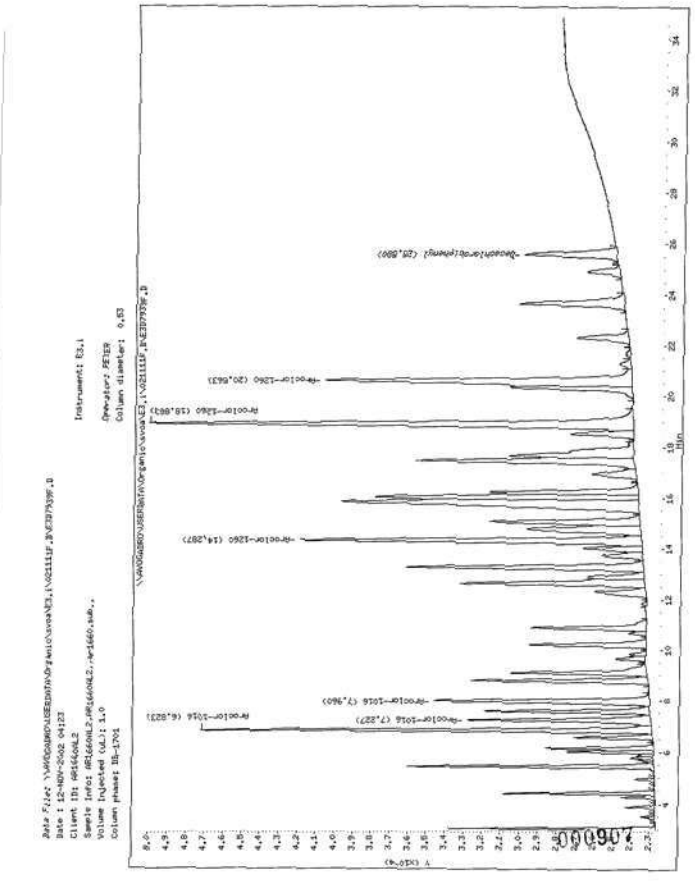
000905

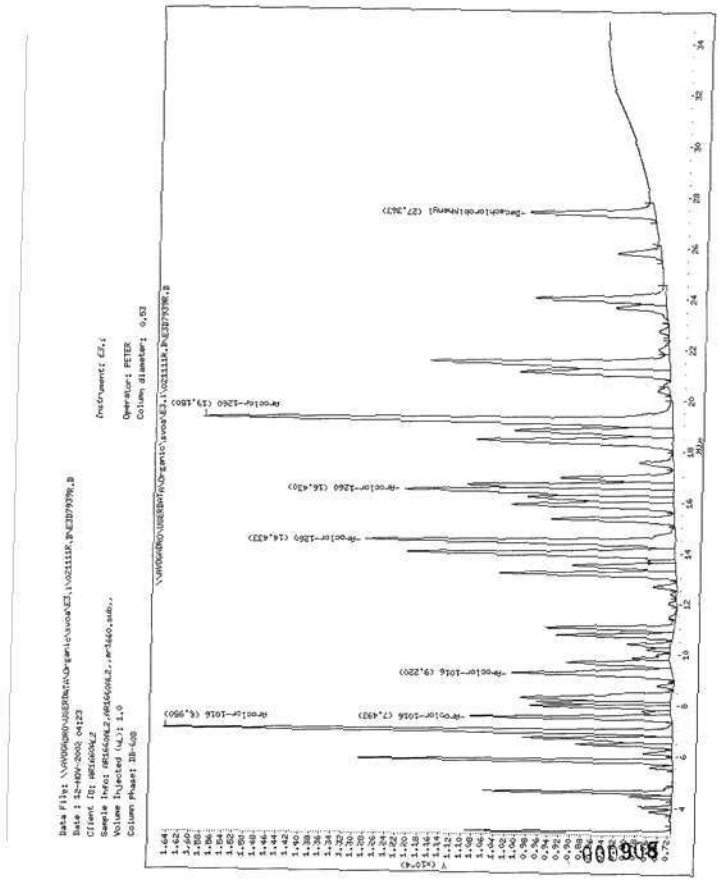
Data File: E3D7938F.D
Report Date: 12-Nov-2002 16:18

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

000906





Data File: E3D7939F.D
Report Date: 12-Nov-2002 16:18

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7939F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7939R.D
Inj Date : 12-NOV-2002 04:23
Sample Info: AR1660AL2,AR1660AL2,,ar1660.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:08
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of Sample extracted (ml)
Vi	1.000	Volume injected (uL)

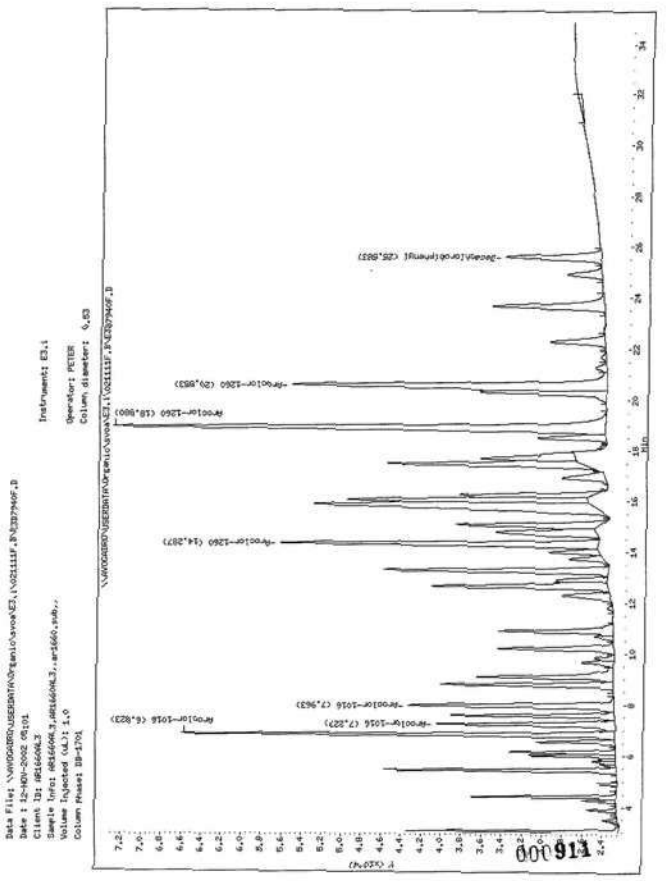
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	*7.033*	*7.030*	*22330*	*3743*	*0.031*	*0.010*		100.00(a)
Aroclor-1016	7.227	9.220	9609	2943	0.50	0.53	80.00- 120.00	100.00(a)
	6.823	6.950	24333	9331	0.50	0.33	223.99- 263.99	248.07(a)
	7.960	7.493	11547	3683	0.50	0.52	95.46- 135.46	117.92(a)
			Average of Peak Amounts =		*0.50*	*2.02*		
Decachlorobiphenyl	25.589	27.363	4956	2281	0.010	0.011		100.00(a)
Aroclor-1260	14.287	14.433	18395	5684	0.51	0.54	80.00- 120.00	100.00(a)
	18.883	16.430	26050	6935	0.50	0.52	134.58- 174.58	141.61(a)
	20.563	19.150	19545	8578	0.49	0.51	79.02- 119.02	89.94(a)
			Average of Peak Amounts =		0.50	0.52		

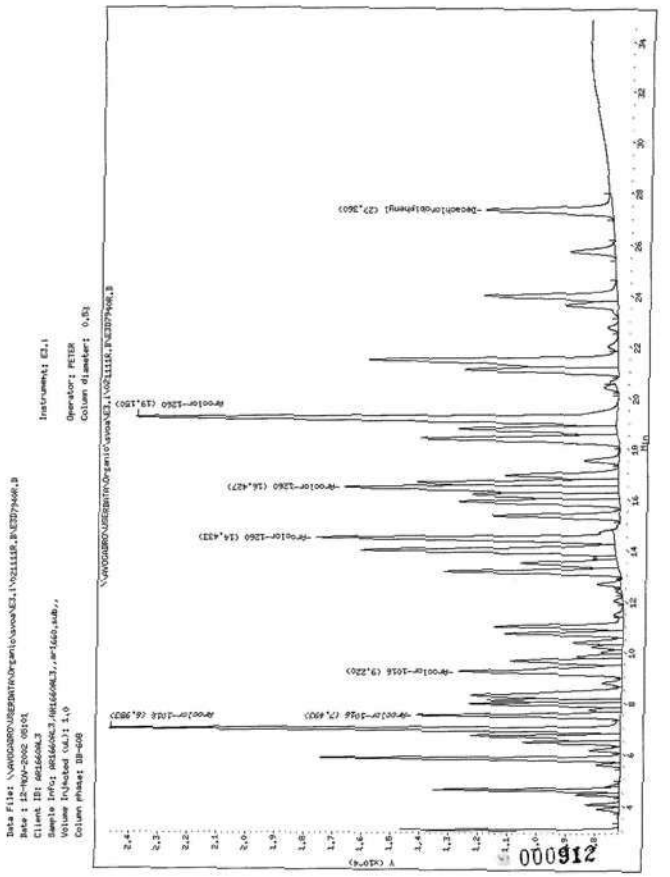
11/13/02

Data File: E3D7939F.D
Report Date: 12-Nov-2002 16:18

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).





Data File: E3D7940F.D
Report Date: 12-Nov-2002 16:18

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7940F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7940R.D
Inj Date : 12-NOV-2002 05:01
Sample Info: AR1660AL3,AR1660AL3,,ar1660.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:09
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\R3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\R3_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

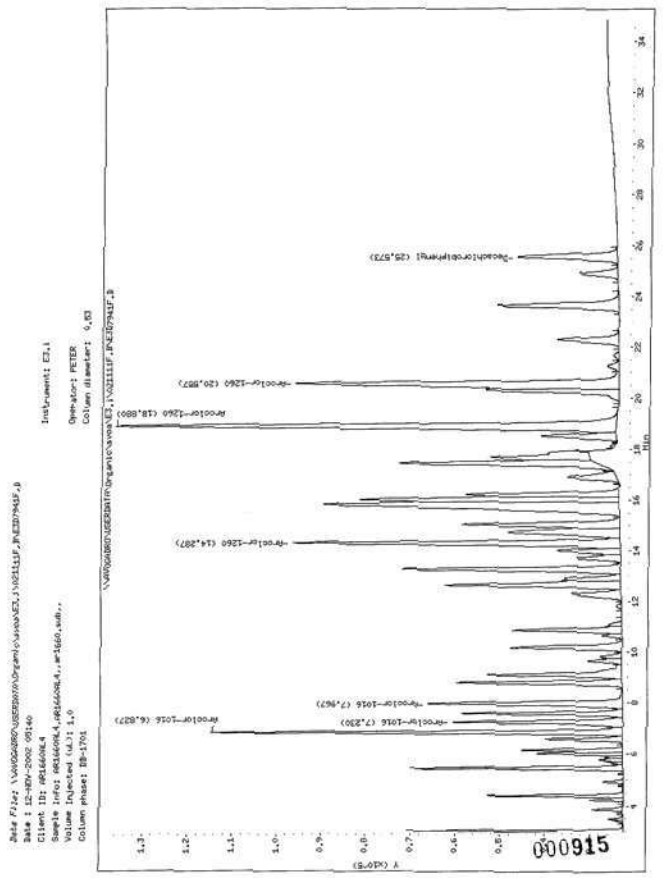
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.017	3.010	21052	7474	0.020	0.021		100.00(a)
Aroclor-1016	7.227	7.220	17473	5574	1.1	1.00	80.00- 120.00	100.00
	6.823	6.953	43120	17533	1.1	1.00	223.99- 263.99	243.99
	7.963	7.933	20405	5985	1.3	0.59	95.46- 135.46	115.46
			Average of Peak Amounts =		1.1	1.00		
Decachlorobiphenyl	25.583	27.360	9458	4327	0.020	0.022		100.00(a)
Aroclor-1260	14.287	14.433	31613	10211	1.0	0.97	80.00- 120.00	100.00
	18.880	16.427	48866	9393	1.1	0.99	134.58- 174.58	154.58
	20.953	19.150	31302	16483	1.1	0.98	79.02- 119.02	99.02
			Average of Peak Amounts =		1.1	0.98		

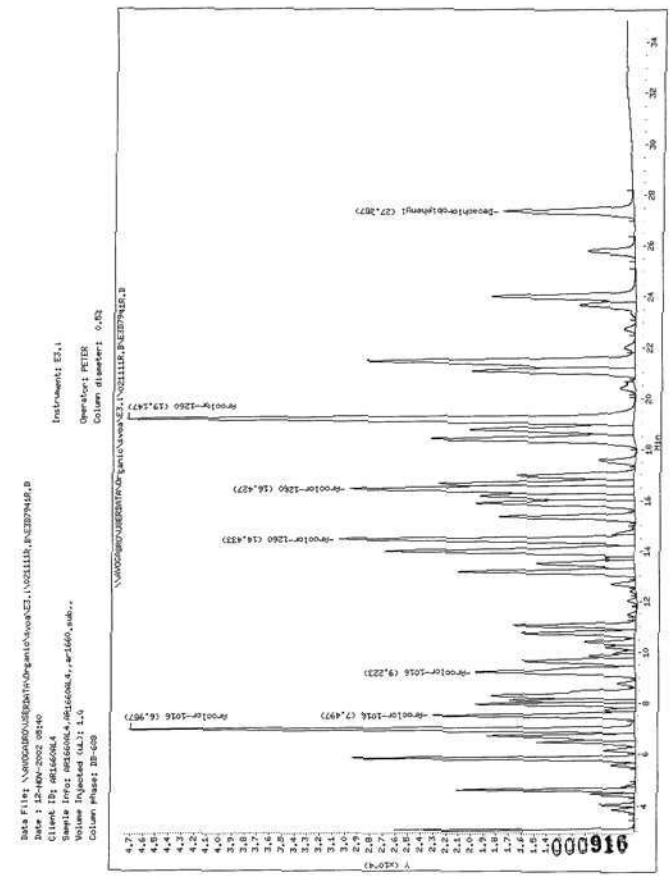
11/13/02

Data File: R3D7940F.D
Report Date: 12-Nov-2002 16:18

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).





Data File: E3D7941F.D
Report Date: 12-Nov-2002 16:18

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7941F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7941R.D
Inj Date : 12-NOV-2002 05:40
Sample Info: AR1660AL4,AR1660AL4,,ar1660.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:09
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DP * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

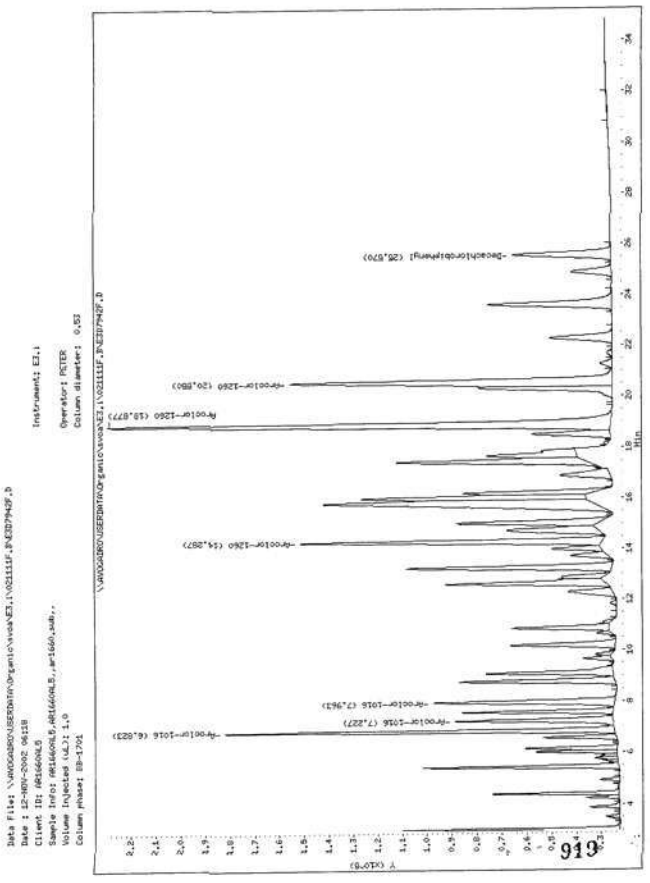
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	5.057	5.053	48194	18923	0.046	0.05		100.00(a)
Aroclor-1016	7.230	9.223	37841	12493	3.8	3.2	80.00- 120.00	100.00
	6.827	6.957	91975	39968	2.7	2.3	223.99- 243.99	243.05
	7.967	7.497	43273	15898	2.7	2.3	95.46- 135.46	114.35
			Average of Peak Amounts =		2.7	2.3		
Decachlorobiphenyl	25.573	27.357	32021	10294	0.047	0.05		100.00(a)
Aroclor-1260	14.287	14.433	72903	23333	2.8	2.2	80.00- 120.00	100.00
	18.880	16.427	111471	22371	2.6	2.4	134.58- 174.58	152.90
	20.557	19.147	72058	19971	2.6	2.4	79.02- 119.02	88.84
			Average of Peak Amounts =		2.7	2.3		

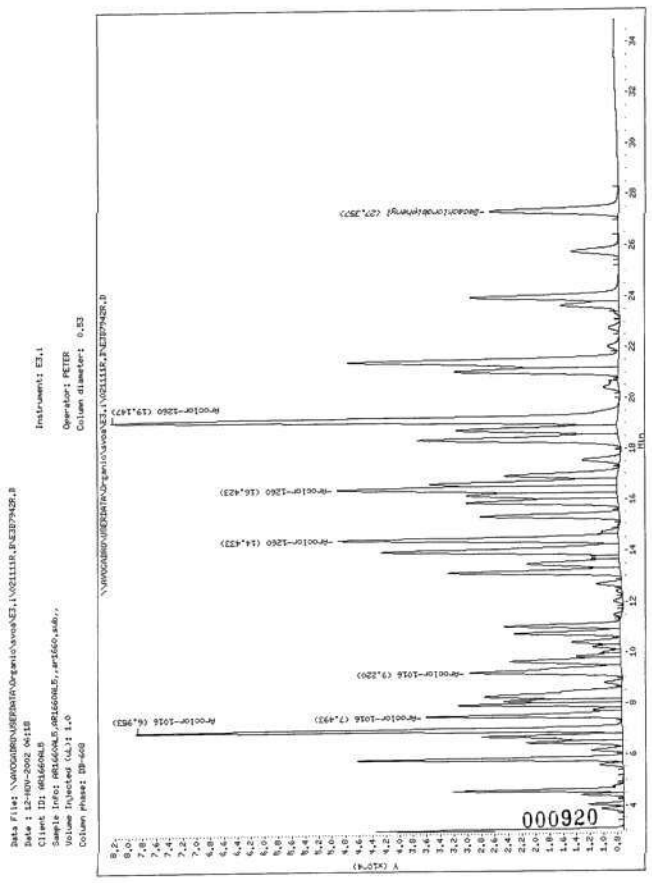
11/13/02

Data File: E3D7941F.D
Report Date: 12-Nov-2002 16:18

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).





Data File: E3D7942F.D
Report Date: 12-Nov-2002 16:18

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7942F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7942R.D
Inj Date : 12-NOV-2002 06:18
Sample Info: AR1660AL5,AR1660AL5,,ar1660.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:09
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.033	3.030	87549	36377	0.084	0.10		100.00
Aroclor-1016	7.227	9.220	63599	22372	4.8	4.0	80.00- 120.00	100.00
	6.823	6.953	157384	71599	4.8	4.1	223.99- 263.99	247.46
	7.963	7.493	72760	28683	4.8	4.1	95.46- 135.46	114.40
			Average of Peak Amounts =		4.8	4.1		
Decachlorobiphenyl	26.570	27.357	39906	19118	0.085	0.096		100.00
Aroclor-1260	14.287	14.433	122026	41392	4.8	3.9	80.00- 120.00	100.00
	18.877	16.423	203042	41151	4.9	4.3	134.58- 174.58	166.39
	20.550	19.147	130492	74501	4.9	4.4	79.02- 119.02	106.94
			Average of Peak Amounts =		4.9	4.2		

000921

Data File: E3D7942F.D
Report Date: 12-Nov-2002 16:18

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7942F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7942R.D
Inj Date : 12-NOV-2002 06:18
Sample Info: AR1660AL5,AR1660AL5,,ar1660.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:09
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

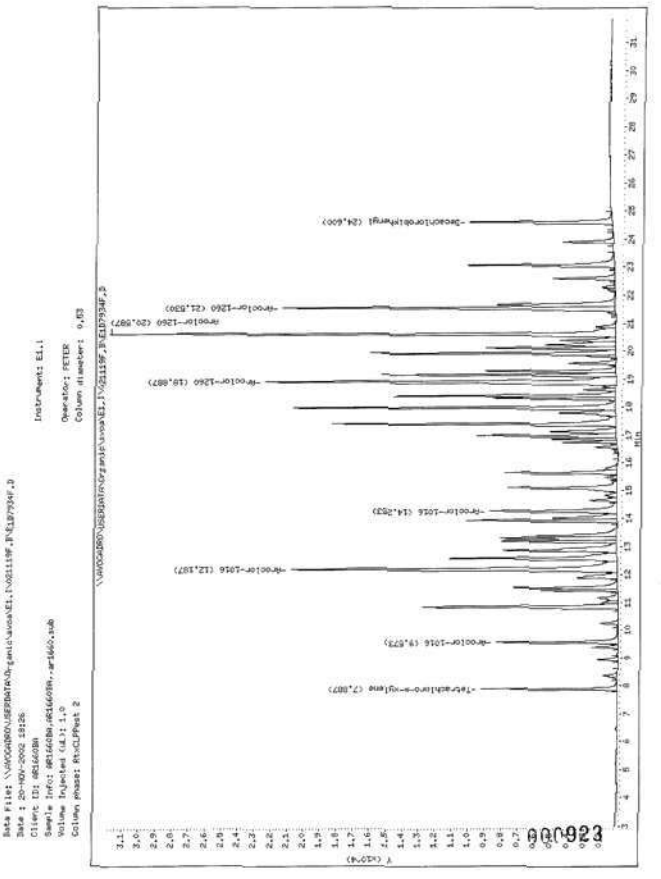
Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

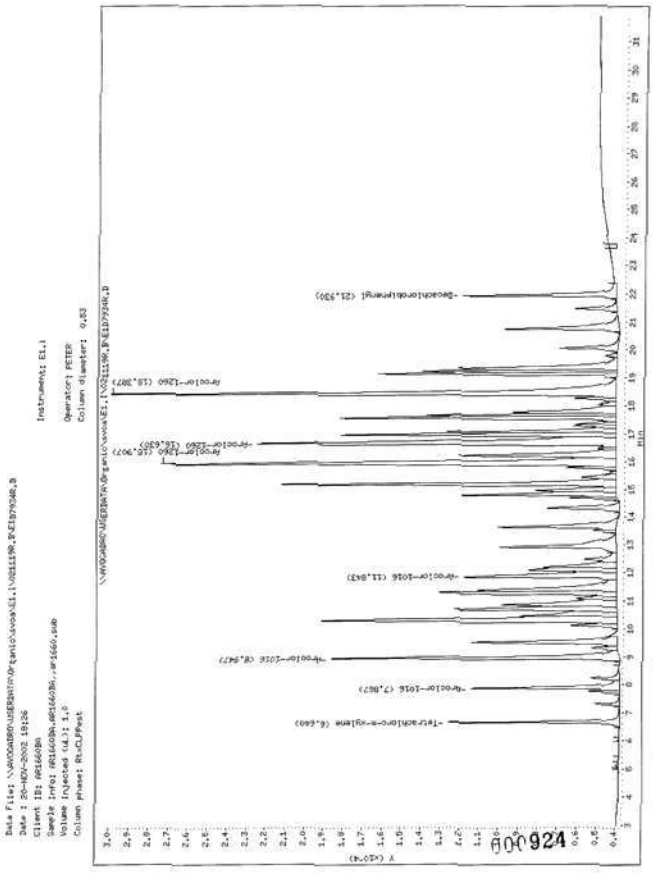
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-Xylene	3.033	3.030	87549	36377	0.084	0.10		100.00
Aroclor-1016	7.227	9.220	63599	22372	4.8	4.0	80.00- 120.00	100.00
	6.823	6.953	157384	71599	4.8	4.1	223.99- 263.99	247.46
	7.963	7.493	72760	28683	4.8	4.1	95.46- 135.46	114.40
			Average of Peak Amounts =		4.8	4.1		
Decachlorobiphenyl	26.570	27.357	39906	19118	0.085	0.096		100.00
Aroclor-1260	14.287	14.433	122026	41392	4.8	3.9	80.00- 120.00	100.00
	18.877	16.423	203042	41151	4.9	4.3	134.58- 174.58	166.39
	20.550	19.147	130492	74501	4.9	4.4	79.02- 119.02	106.94
			Average of Peak Amounts =		4.9	4.2		

000922





Data File: E1D7934F.D
Report Date: 27-Nov-2002 15:29

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1D7934F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1D7934R.D
Inj Date : 20-NOV-2002 18:26
Sample Info: AR1660BA,AR1660BA,,ar1660.sub
Misc Info : 2,,,1,,
Cal Date : 25-NOV-2002 16:33
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

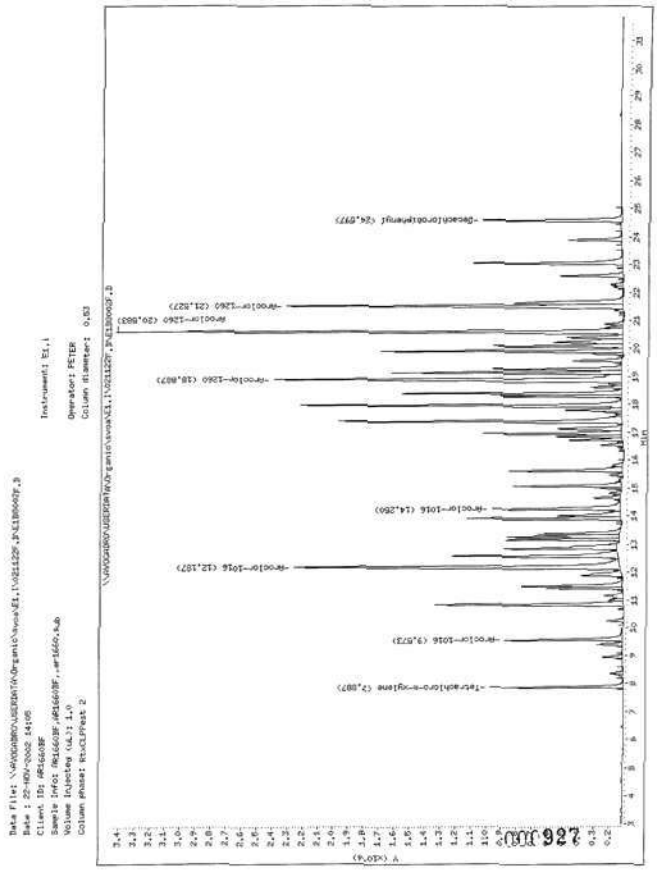
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.887	6.640	82115	8774	0.021	0.020		100.00(a)
Aroclor-1016	9.573	7.947	73871	7421	1.0	0.98	80.00- 120.00	100.00
	12.187	9.947	197658	14824	1.0	1.0	242.18- 302.18	267.61
	14.253	11.843	75897	7834	1.0	0.92	88.45- 128.45	104.06
			Average of Peak Amounts =		1.0	0.97		
Decachlorobiphenyl	24.600	21.930	45968	7891	0.020	0.020		100.00(a)
Aroclor-1260	18.887	15.907	211493	23374	1.0	0.95	80.00- 120.00	100.00
	20.587	16.630	305175	18435	1.0	0.91	134.99- 164.99	149.94
	21.530	18.387	301126	25908	1.0	0.92	76.13- 116.13	84.76
			Average of Peak Amounts =		1.0	0.93		

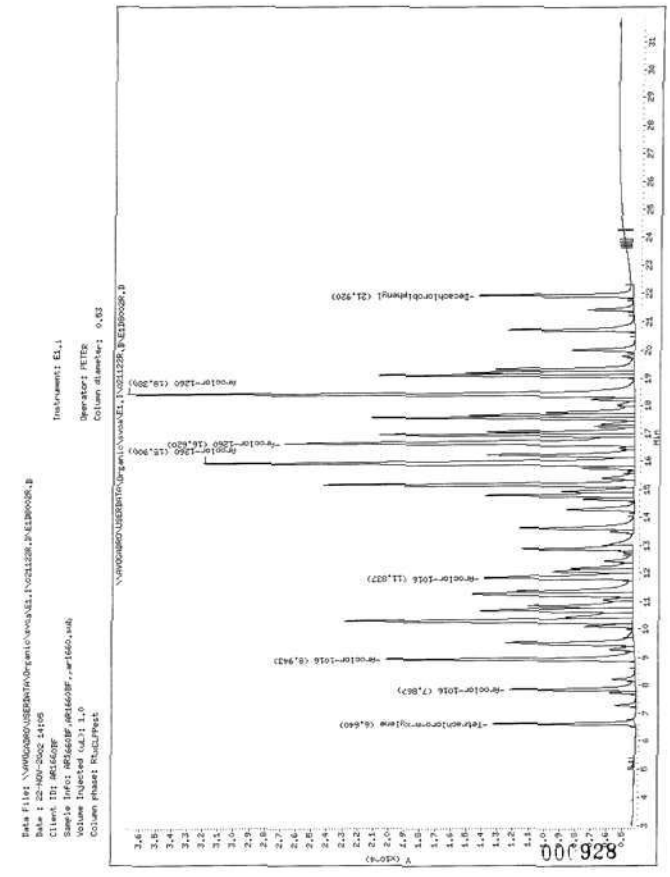
SE 11/27/02

Data File: E1D7934F.D
Report Date: 27-Nov-2002 15:29

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).





Data File: E1D8002F.D
Report Date: 27-Nov-2002 15:29

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1D8002F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1D8002R.D
Inj Date : 22-NOV-2002 14:05
Sample Info: AR1660BF,AR1660BF,,ar1660.sub
Misc Info : 2,,,1,,
Cal Date : 25-NOV-2002 16:36
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.887	6.640	8628	9120	0.022	0.020		100.00(a)
Aroclor-1016	9.573	7.867	7681	8095	1.1	1.0	80.00- 120.00	109.00
	12.187	8.943	21255	16024	1.1	1.1	255.41- 295.41	276.72
	14.250	11.037	8321	9536	1.1	1.2	88.32- 128.32	108.33
			Average of Peak Amounts =		1.1	1.1		
Decachlorobiphenyl	24.597	21.920	9074	9895	0.022	0.025		100.00(a)
Aroclor-1260	18.887	15.900	22626	27739	1.1	1.1	80.00- 120.00	109.00
	20.583	16.620	32998	22493	1.1	1.1	125.79- 165.79	145.84
	21.527	18.280	21976	32563	1.1	1.1	76.29- 116.29	97.13
			Average of Peak Amounts =		1.1	1.1		

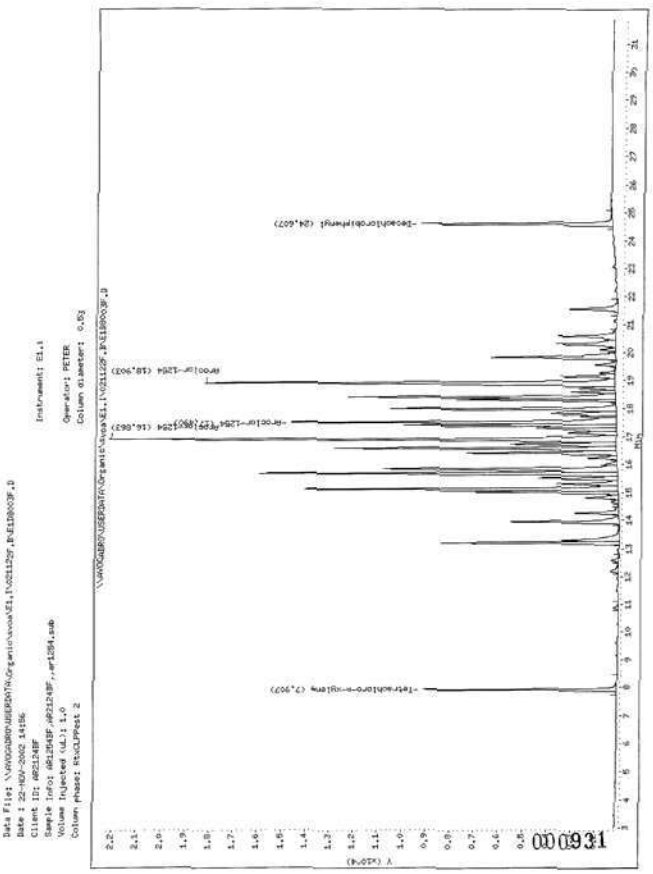
000929

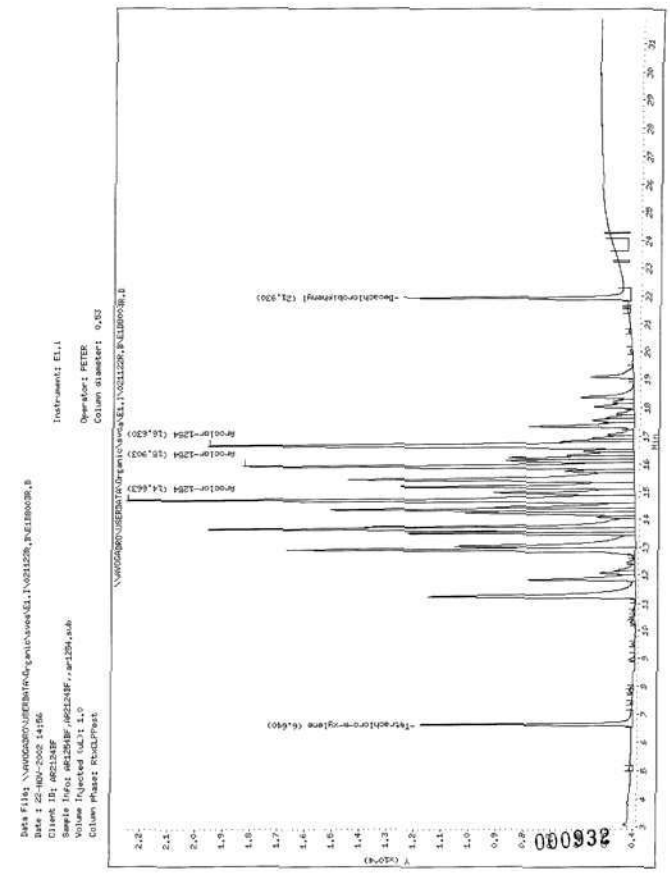
Data File: E1D8002F.D
Report Date: 27-Nov-2002 15:29

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

000930





Data File: E1D8003F.D
Report Date: 27-Nov-2002 15:29

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1D8003F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1D8003R.D
Inj Date : 22-NOV-2002 14:56
Sample Info: AR1254BF,AR2124BF,,ar1254,sub
Misc Info : 2,,,1,,
Cal Date : 25-NOV-2002 16:36
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1_PCB_R.m
Sub List #1 : ar1254.sub
Sub List #2 : ar1254.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

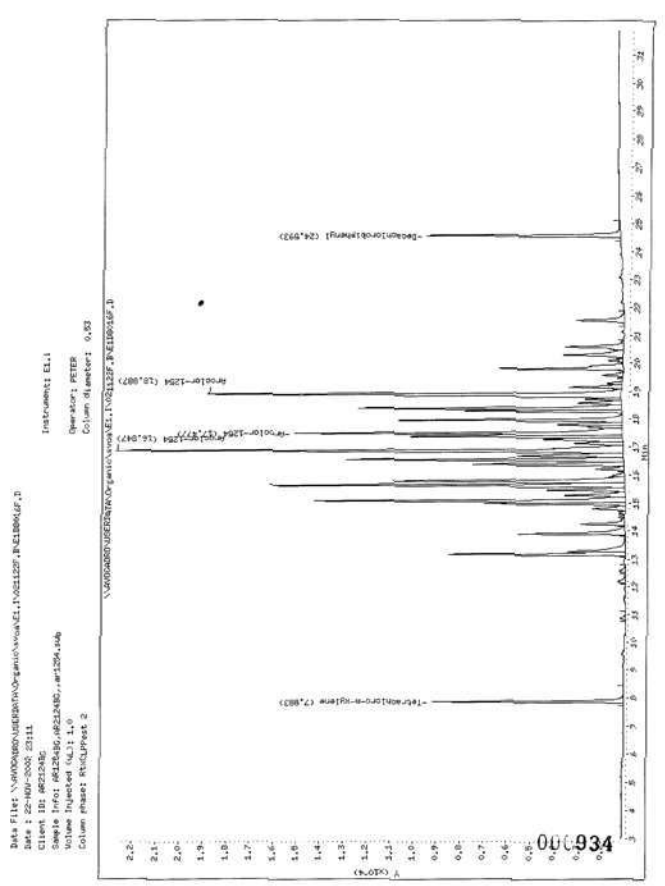
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-Xylene	7.907	6.64%	7899	7759	0.020	0.017		100.00(a)
Decachlorobiphenyl	24.607	21.93%	7903	8307	0.019	0.021		100.00(a)
Aroclor-1254	16.863	14.64%	20994	18553	1.0	1.0	80.00- 120.00	100.00
	17.490	15.90%	13491	14266	1.0	1.0	44.43- 84.63	64.26
	18.903	16.63%	14972	15532	1.0	1.0	61.55- 101.55	80.83
			Average of Peak Amounts =		1.0	1.0		

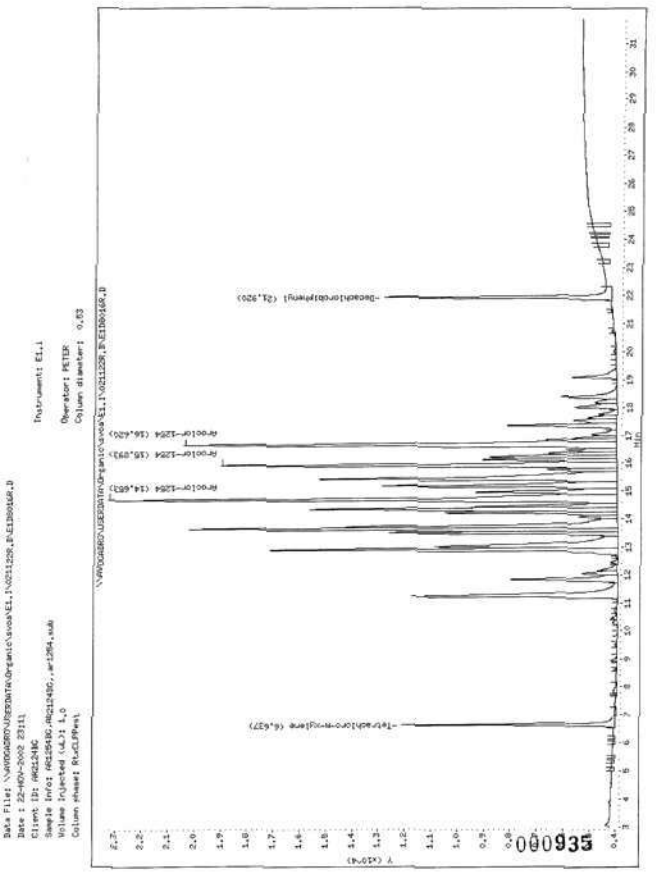
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

SZ 11/27/02

000933





000935

Data File: R1D8016F.D
Report Date: 27-Nov-2002 15:29

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1D8016F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1D8016R.D
Inj Date : 22-NOV-2002 23:11
Sample Info: AR1254BG,AR2124BG,,ar1254.sub
Misc Info : 2,,,1,,
Cal Date : 25-NOV-2002 16:36
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1_PCB_R.m
Sub List #1 : ar1254.sub
Sub List #2 : ar1254.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

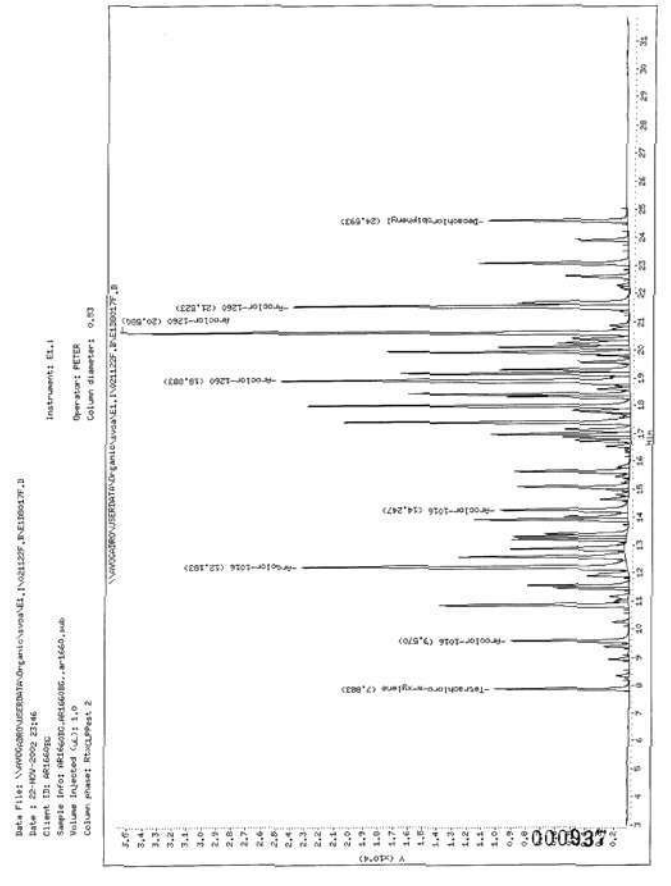
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.883	6.637	9140	8050	0.021	0.018		100.00(a)
Decachlorobiphenyl	24.593	21.920	9258	8586	0.020	0.021		100.00(a)
Aroclor-1254	16.847	14.653	21428	19299	1.1	1.0	80.00- 120.00	100.00
	17.677	15.893	13979	15037	1.1	1.1	44.63- 84.63	84.63
	18.887	16.420	17937	16402	1.1	1.1	81.55- 101.55	81.55
			Average of Peak Amounts =		1.1	1.1		

QC Flag Legend

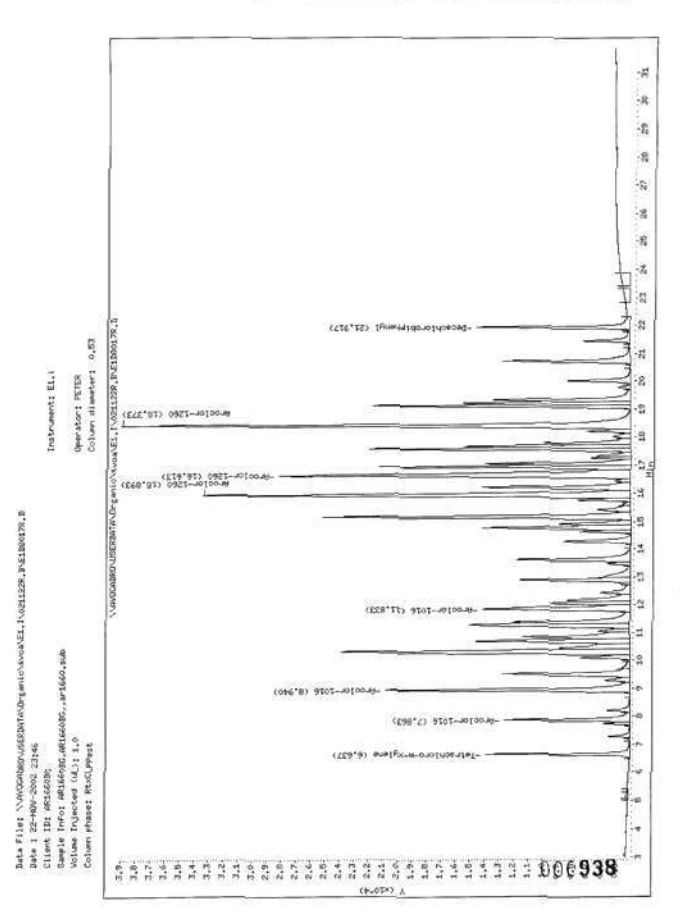
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

25 11/27/02

000936



000937



000938

Data File: E1D8017F.D
Report Date: 27-Nov-2002 15:29

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1D8017F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1D8017R.D
Inj Date : 22-NOV-2002 23:46
Sample Info: AR1660BG,AR1660BG,,ar1660.sub
Misc Info : 2,,,1,,
Cal Date : 25-NOV-2002 16:36
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

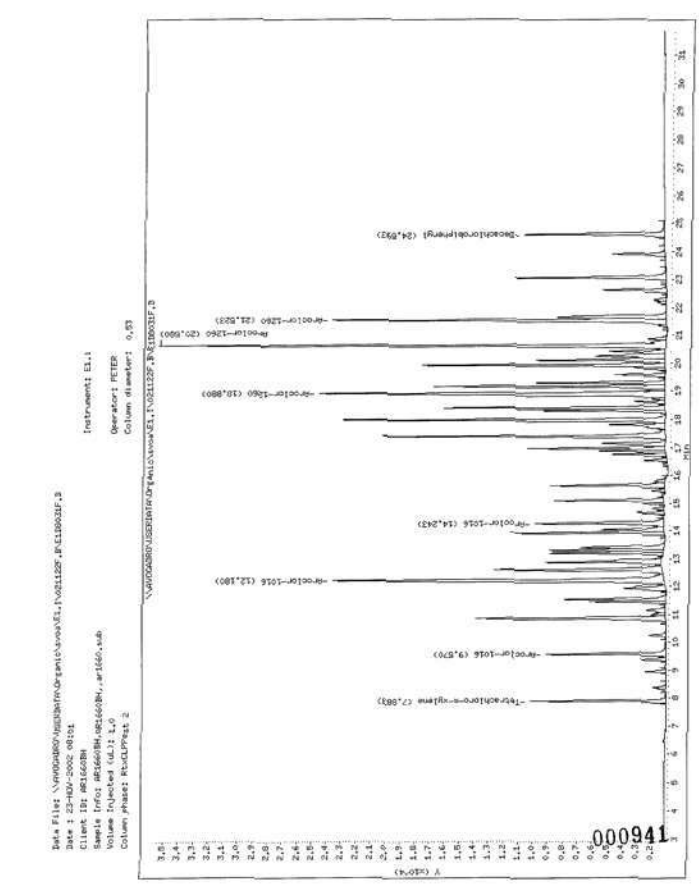
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.883	6.637	9102	9849	0.023	0.022		100.00(a)
Aroclor-1016	9.570	7.863	9013	8575	1.1	1.1	80.00- 120.00	100.00
	12.183	8.940	22069	16746	1.2	1.2	255.41- 295.41	275.41
	14.247	11.833	8680	10159	1.2	1.1	88.32- 128.32	108.32
			Average of Peak Amounts =		1.2	1.1		
Decachlorobiphenyl	*24.583*	*21.917*	*9425*	*10471*	*0.022*	*0.024*		*100.00(a)*
Aroclor-1260	18.883	15.883	23601	29385	1.1	1.3	80.00- 120.00	100.00
	20.580	16.613	34409	34120	1.3	1.1	125.79- 165.79	145.79
	21.533	18.373	23726	34961	1.3	1.3	76.29- 116.29	96.29
			Average of Peak Amounts =		1.2	1.2		

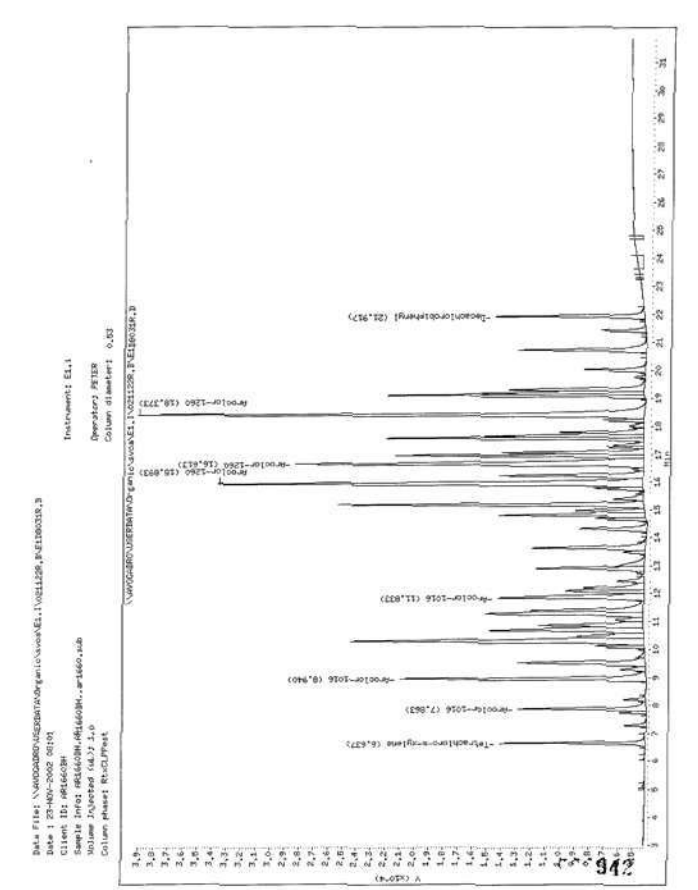
SZ 11/27/02

Data File: E1D8017F.D
Report Date: 27-Nov-2002 15:29

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).





Data File: E1D8031F.D
Report Date: 27-Nov-2002 15:29

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1D8031F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1D8031R.D
Inj Date : 23-NOV-2002 08:01
Sample Info: AR1660BH,AR1660BH,,ar1660.sub
Misc Info : 2,,,1,,
Cal Date : 25-NOV-2002 10:06
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

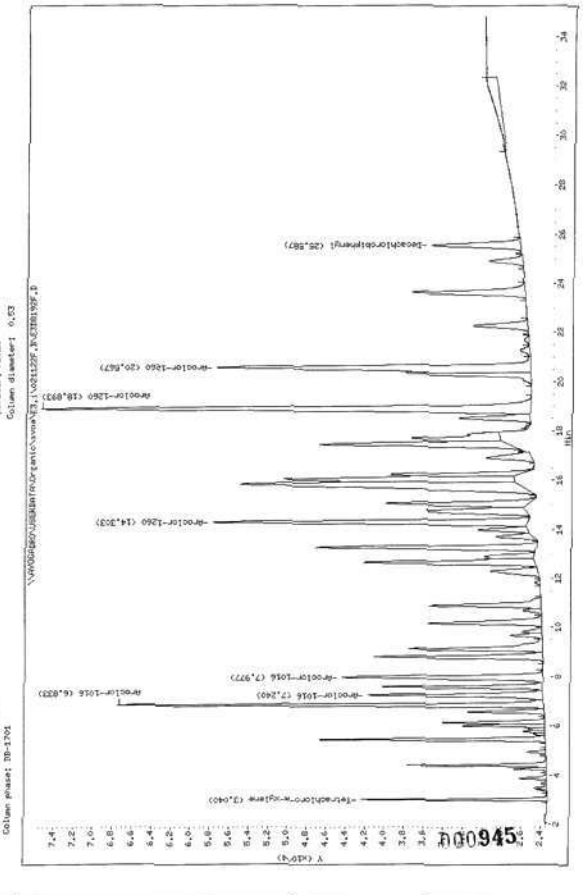
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.883	6.637	9141	3982	0.023	0.022		100.00(a)
Aroclor-1016	9.570	7.963	8091	8844	1.1	1.1	80.00- 120.00	100.00
	13.190	8.940	22370	16978	1.2	1.2	255.41- 295.41	276.48
	14.243	11.833	8432	10112	1.3	1.1	88.32- 128.32	107.43
			Average of Peak Amounts =		1.2	1.1		
Decachlorobiphenyl	24.593	21.917	9419	10241	0.022	0.026		100.00(a)
Aroclor-1260	18.880	15.883	33551	29253	1.1	1.2	80.00- 120.00	100.00
	20.580	16.613	34245	24032	1.1	1.1	125.79- 165.79	146.45
	21.523	18.373	32568	34650	1.1	1.2	76.29- 116.29	96.65
			Average of Peak Amounts =		1.1	1.2		

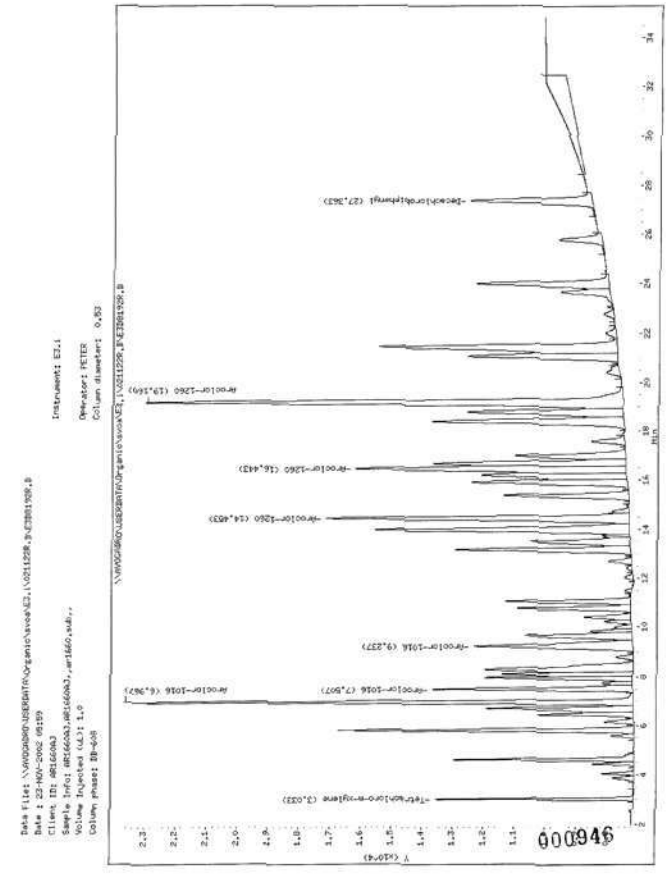
SZ 11/27/02

Data File: E1D8031F.D
Report Date: 27-Nov-2002 15:29

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).





Data File: E3D8192F.D
Report Date: 26-Nov-2002 16:47

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3D8192F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3D8192R.D
Inj Date : 23-NOV-2002 05:59
Sample Info: AR1660AJ,AR1660AJ,,ar1660.sub,,
Misc Info :
Cal Date : 25-NOV-2002 09:31
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3_PCB_P.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

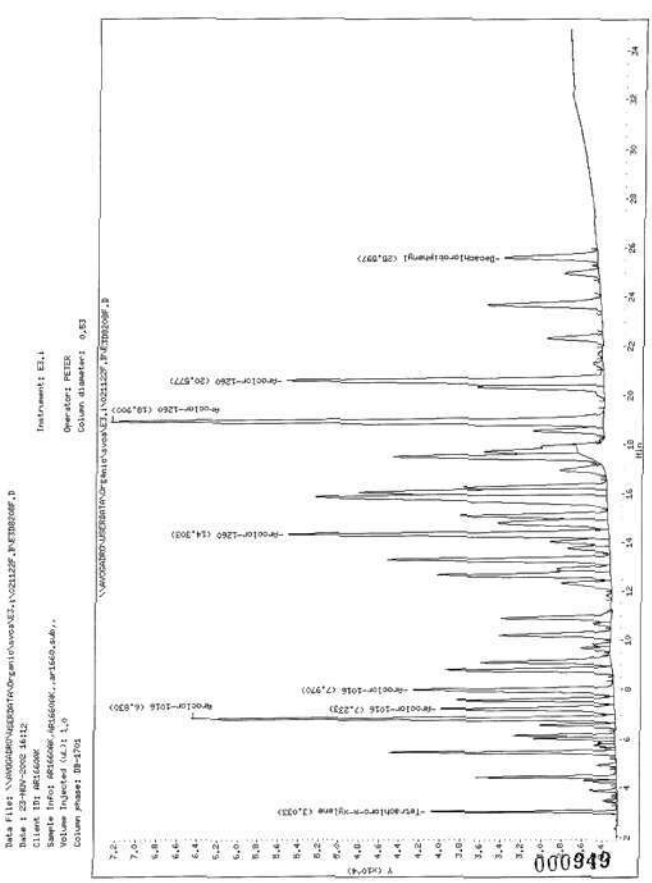
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.040	3.033	19035	6415	0.018	0.018		100.00(a)
Aroclor-1016	7.240	9.237	17879	5133	1.1	0.92	80.00- 120.00	100.00
	6.833	6.967	43677	16496	1.1	0.94	225.71- 265.71	244.29
	7.977	7.507	20560	6479	1.1	0.92	96.07- 136.07	115.00
			Average of Peak Amounts =		1.1	0.93		
Decachlorobiphenyl	*26.587*	*27.363*	*9150*	*3445*	*0.018*	*0.020*		*100.00(a)*
Aroclor-1260	14.303	14.453	32301	9833	1.1	0.94	80.00- 120.00	100.00
	18.893	16.443	50202	8777	1.1	0.92	133.88- 173.88	155.42
	20.567	19.160	32204	15478	1.1	0.92	77.97- 117.97	99.70
			Average of Peak Amounts =		1.1	0.93		

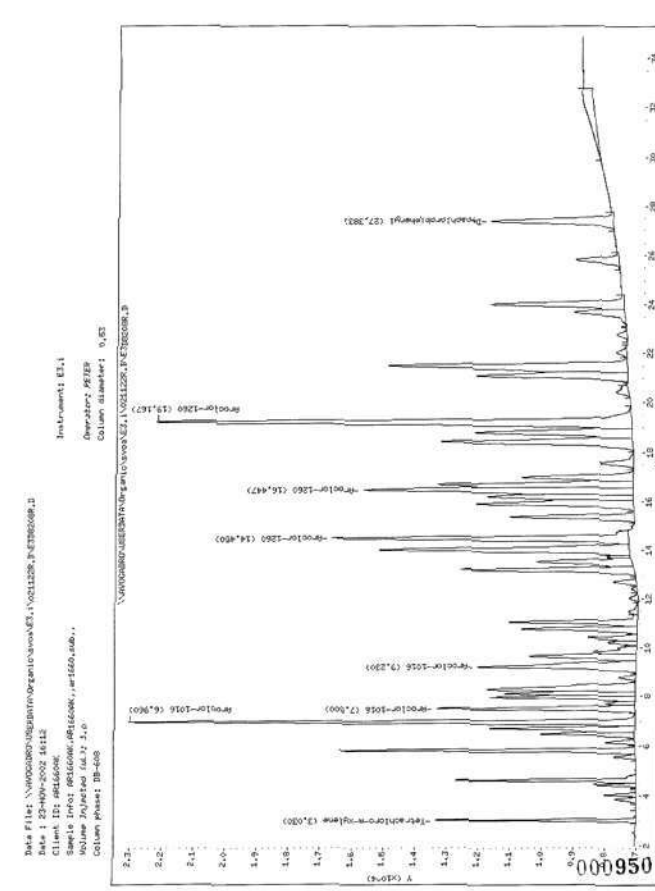
5Z 11/26/02

Data File: E3D8192F.D
Report Date: 26-Nov-2002 16:47

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).





Data File: E3D8208F.D
Report Date: 26-Nov-2002 16:47

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3D8208F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3D8208R.D
Inj Date : 23-NOV-2002 16:12
Sample Info: AR1660AK,AR1660AK,,ar1660.sub,,
Misc Info :
Cal Date : 25-NOV-2002 09:32
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	5.035	3.030	18385	8305	0.018	0.018		100.00(a)
Aroclor-1016	7.233	5.250	17064	4995	1.1	0.90	80.00- 130.00	100.00
	6.830	6.980	41817	15985	1.1	0.91	225.71- 265.71	245.04
	7.970	7.500	19757	6246	1.1	0.89	96.07- 136.07	115.78
			Average of Peak Amounts =		1.1	0.90		
Decachlorobiphenyl	28.597	27.383	9082	3814	0.019	0.019		100.00(a)
Aroclor-1260	14.303	14.450	31625	8350	1.0	0.89	80.00- 120.00	100.00
	18.908	16.447	48544	8480	1.0	0.89	132.88- 172.88	153.50
	20.577	19.167	31272	14983	1.1	0.88	77.97- 117.97	98.88
			Average of Peak Amounts =		1.0	0.89		

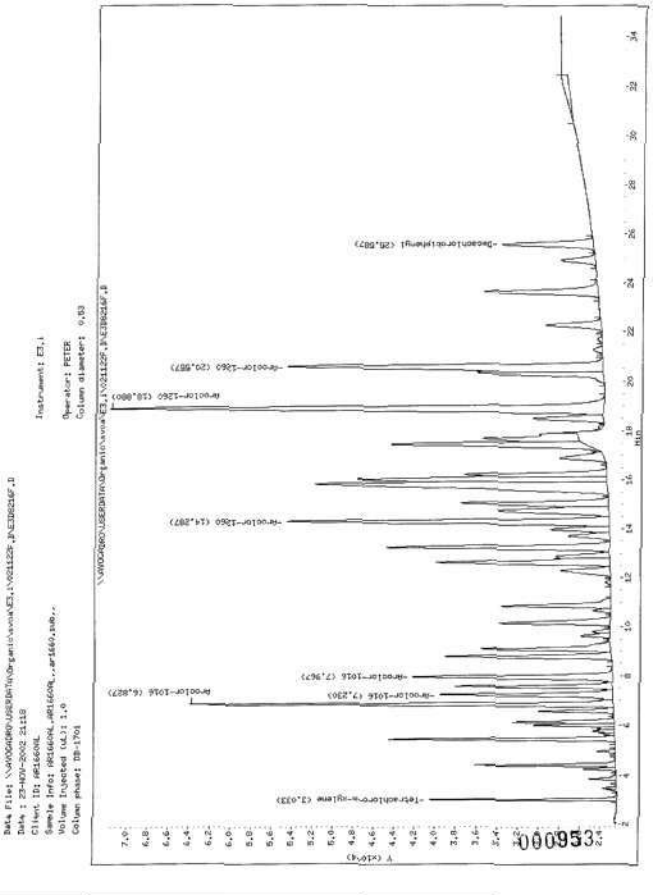
000951

Data File: E3D8208F.D
Report Date: 26-Nov-2002 16:47

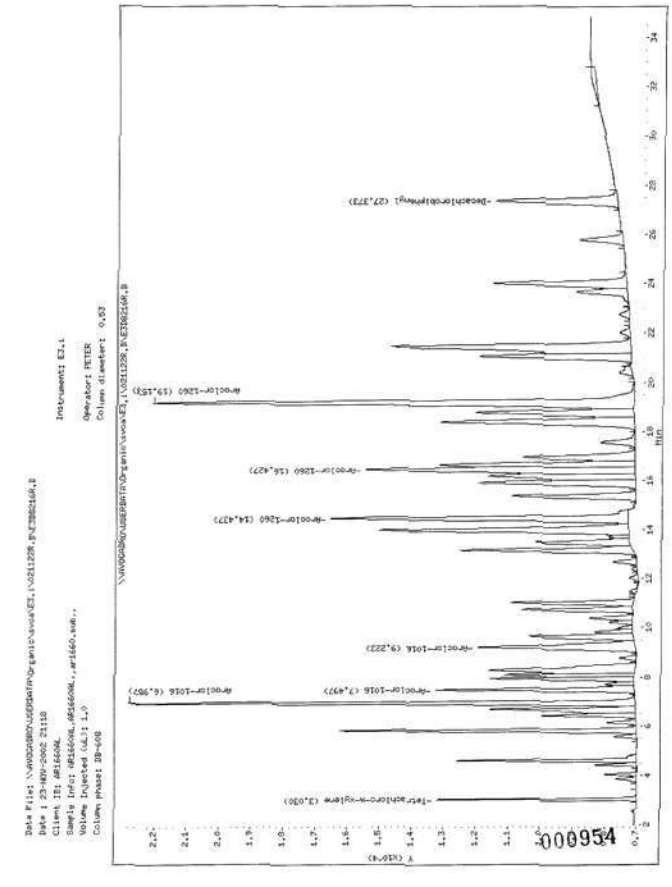
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

000952



000953



000954

Data File: E3D8216F.D
Report Date: 26-Nov-2002 16:47

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3D8216F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3D8216R.D
Inj Date : 23-NOV-2002 21:18
Sample Info: AR1660AL,AR1660AL,,ar1660.sub,,
Misc Info :
Cal Date : 25-NOV-2002 09:32
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.033	3.030	18195	6196	0.017	0.017		100.00(a)
Aroclor-1016	7.330	9.323	16749	4868	1.0	0.87	80.00- 120.00	100.00
	6.827	6.957	41154	15739	1.0	0.89	225.71- 265.71	248.71
	7.967	7.497	19441	6149	1.1	0.88	96.07- 136.07	116.07
			Average of Peak Amounts =		1.0	0.88		
Decachlorobiphenyl	25.587	27.373	8819	3775	0.019	0.019		100.00(a)
Aroclor-1260	14.287	14.437	31318	9253	1.0	0.88	80.00- 120.00	100.00
	18.880	16.427	47880	8371	1.0	0.88	132.88- 172.88	152.88
	20.557	19.153	30682	14943	1.0	0.89	77.97- 117.97	97.97
			Average of Peak Amounts =		1.0	0.88		

SZ 11/26/02

Data File: E3D8216F.D
Report Date: 26-Nov-2002 16:47

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

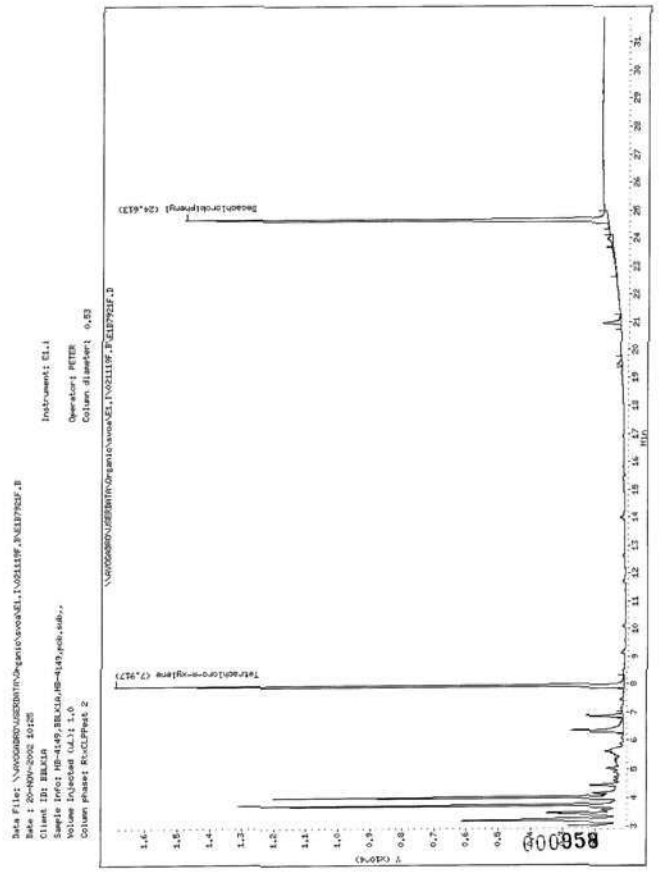
FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

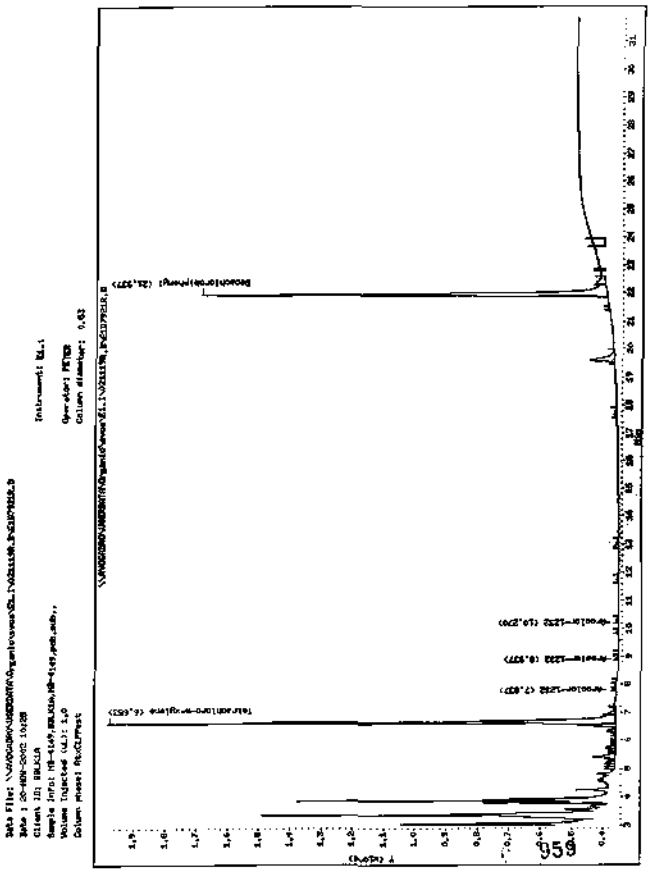
CLIENT SAMPLE NO.
BBLK1A

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: MB-4149
Sample wt/vol: 30.0 (g/mL) G Lab File ID: E1D7921F
% Moisture: 0 decanted: (Y/N) N Date Received: _____
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/11/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/20/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

FORM I PCB





Data File: E1D7921F.D
Report Date: 27-Nov-2002 14:55

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1D7921F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1D7921R.D
Inj Date : 20-NOV-2002 10:25
Sample Info: MB-4149,BBLK1A,MB-4149.pcb.sub,,
Misc Info : 3,,BLANK,2,,,,,,,11-NOV-02,,A1588
Cal Date : 25-NOV-2002 16:34
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Ratio#	Ratio
Tetrachloro-m-xylene	7.917	8.953	19851	14201	13	12		100.00
Decachlorobiphenyl	24.443	23.957	35167	32974	16	15		100.00

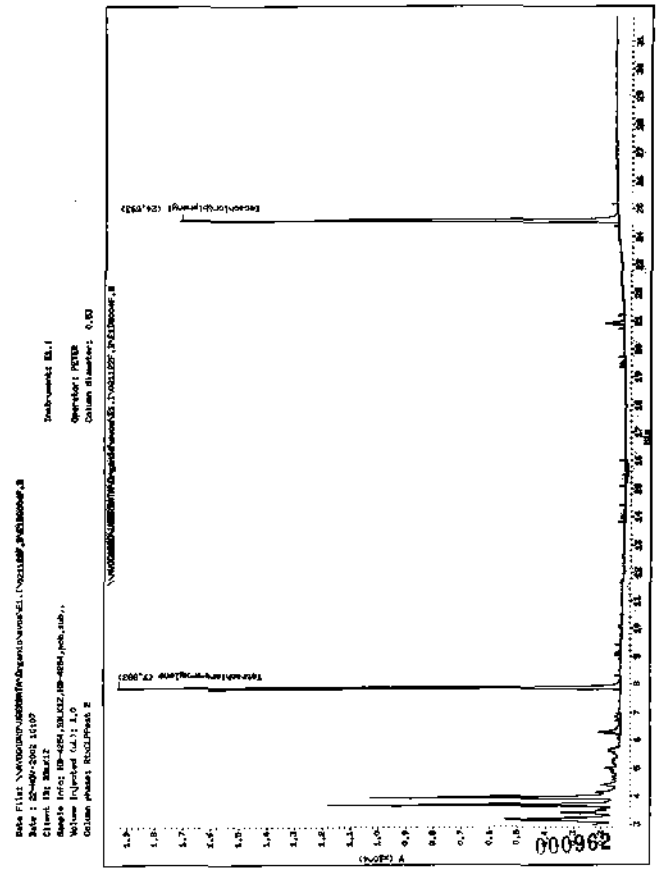
FORM I
PCB ORGANICS ANALYSIS DATA SHEET

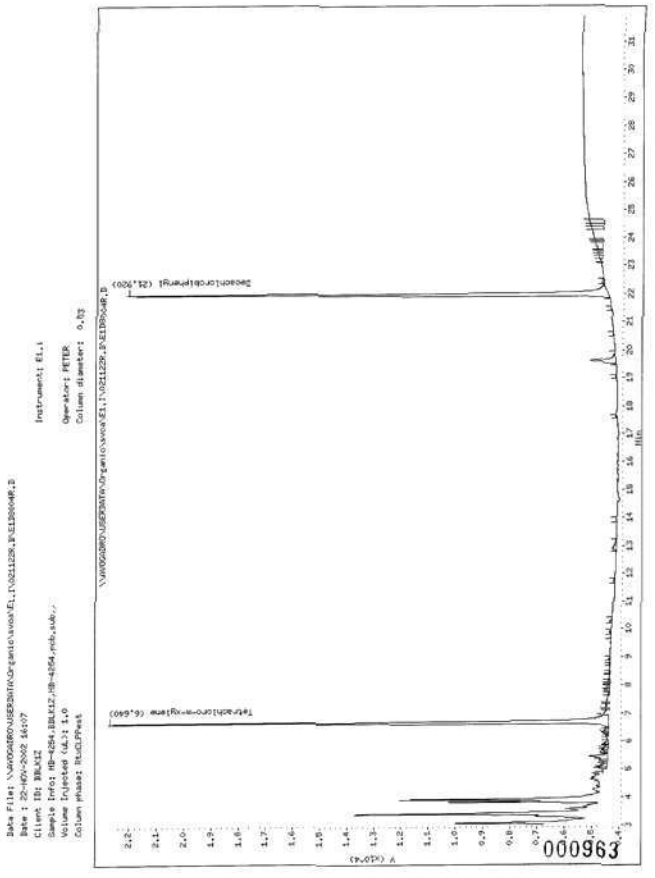
CLIENT SAMPLE NO.
BBLK1E

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) SOIL Lab Sample ID: MB-4254
Sample wt/vol: 15.0 (g/mL) G Lab File ID: E1D8004F
% Moisture: 0 decanted: (Y/N) N Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/13/02
Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

FORM I PCB





000963

Data File: E1D8004F.D
Report Date: 27-Nov-2002 15:04

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1D8004F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1D8004R.D
Inj Date : 22-NOV-2002 16:07
Sample Info: MB-4254,BBLK1Z,MB-4254,pcb.sub,,
Misc Info : 3,,BLANK,2,,,,,,,13-NOV-02,,A1627
Cal Date : 25-NOV-2002 16:36
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	15.000	Weight of sample extracted (g)
M	0.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Tetrachloro-m-xylene	7.883	8.660	18023	18376	15	14		100.00
Decachlorobiphenyl	24.593	21.920	15718	17488	12	15		100.00

SZ 11/27/02

000964

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
BBLK3K

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: MB-4280

Sample wt/vol: 1000 (g/ml) ML Lab File ID: E3D8197F

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/11/02

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/23/02

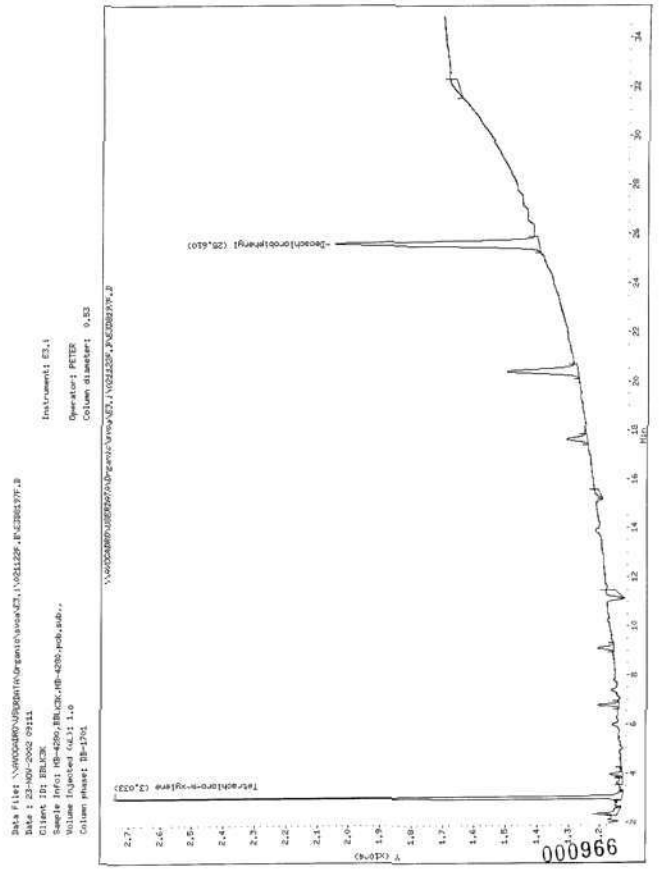
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

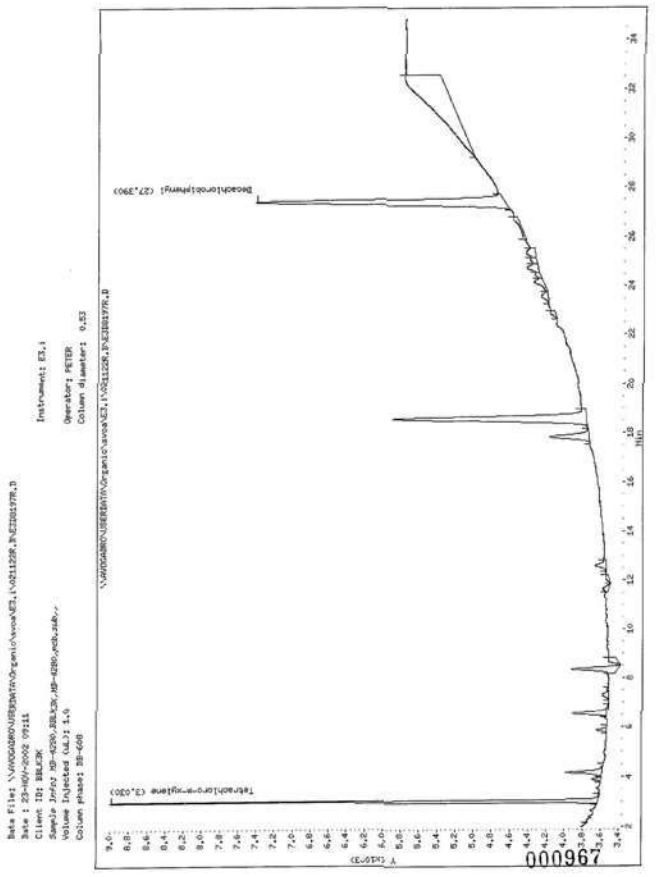
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

000965



000966



000967

Data File: E3D8197F.D
Report Date: 26-Nov-2002 16:30

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3D8197F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3D8197R.D
Inj Date : 23-NOV-2002 09:11
Sample Info: MB-4280,BBLK3K,MB-4280,pcb.sub,,
Misc Info :
Cal Date : 25-NOV-2002 09:32
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.033	3.030	16145	5374	0.15	0.15		100.00
Decachlorobiphenyl	25.610	27.390	4479	3751	0.14	0.14		100.00

sz 11/26/02

000968

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

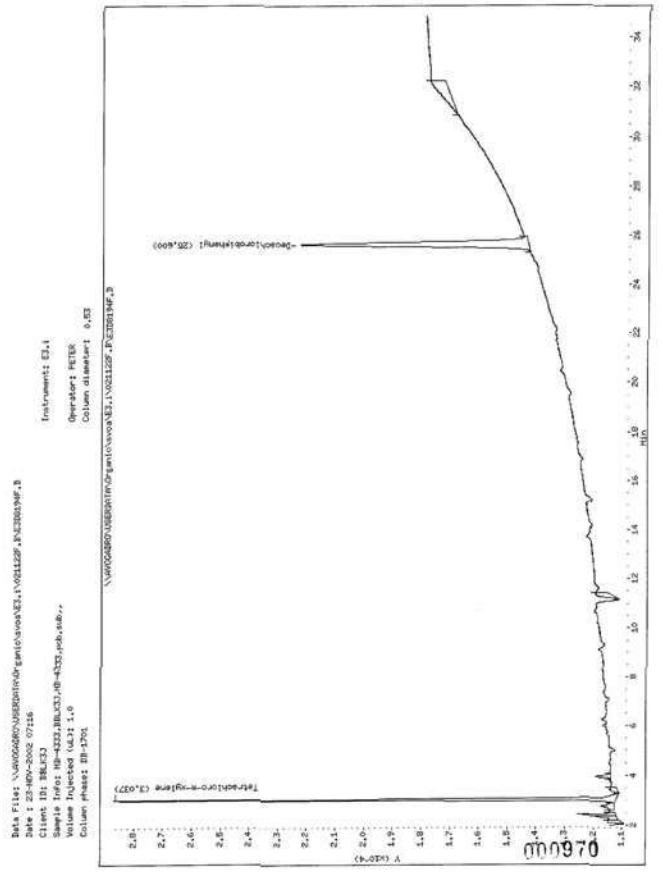
CLIENT SAMPLE NO.
BBLK3J

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: MB-4333
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E3D8194F
% Moisture: _____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/13/02
Concentrated Extract Volume: 2500(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

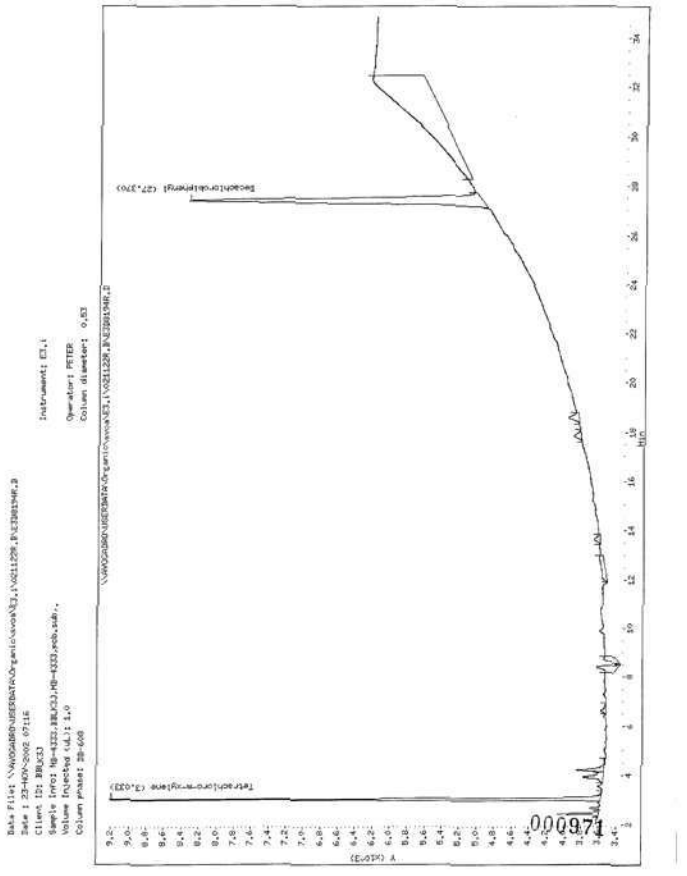
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.25	U
11104-28-2	Aroclor-1221	0.25	U
11141-16-5	Aroclor-1232	0.25	U
53469-21-9	Aroclor-1242	0.25	U
12672-29-6	Aroclor-1248	0.25	U
11097-69-1	Aroclor-1254	0.25	U
11096-82-5	Aroclor-1260	0.25	U

FORM I PCB

000969



000970



Data File: E3D8194F.D
Report Date: 26-Nov-2002 16:12

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3D8194F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3D8194R.D
Inj Date : 23-NOV-2002 07:16
Sample Info: MB-4333,BBLK3J,MB-4333,pcb.sub,,
Misc Info :
Cal Date : 25-NOV-2002 09:32
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	2500.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.037	3.033	17458	5649	0.042	0.040		100.00
Decachlorobiphenyl	28.600	27.370	7931	3390	0.042	0.043		100.00

SZ 11/26/02

000972

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
B1ALCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: LCS-4149

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E1D7922F

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 11/11/02

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/20/02

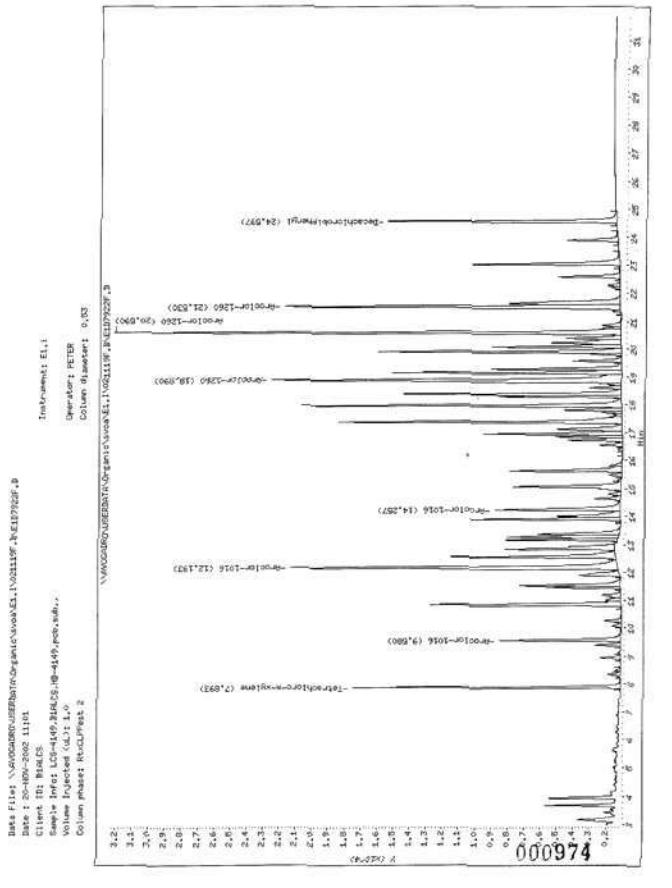
Injection Volume: 1.0(uL) Dilution Factor: 1.0

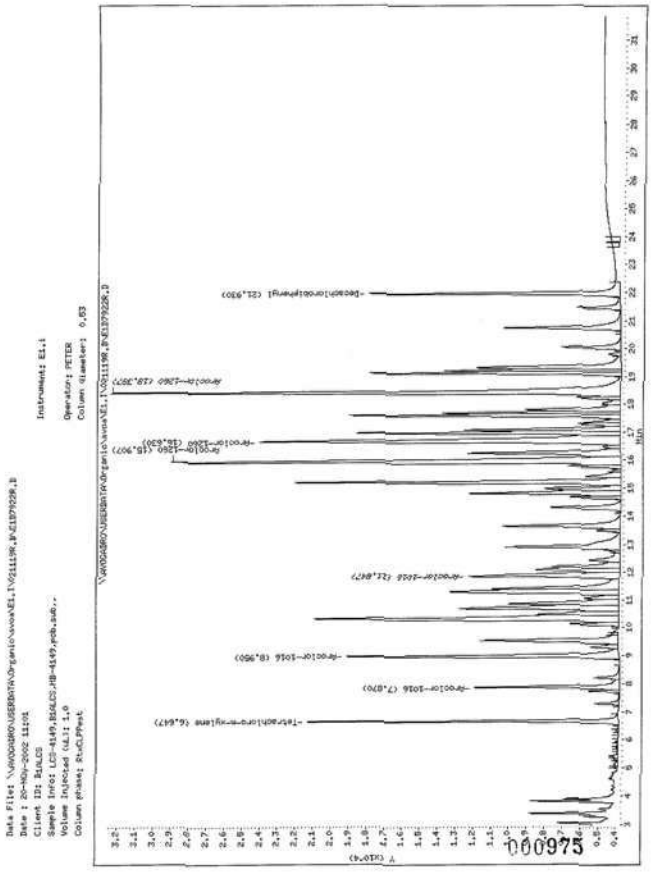
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	340	
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	330	

FORM I PCB

000973





000975

Data File: E1D7922F.D
Report Date: 27-Nov-2002 14:55

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1D7922F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1D7922R.D
Inj Date : 20-NOV-2002 11:01
Sample Info: LCS-4149,BlALCS,MB-4149,pcb.sub,,
Misc Info : 3,,LCS,2,,,,,,,,11-NOV-02,,A1588
Cal Date : 25-NOV-2002 16:34
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021119R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Tetrachloro-m-xylene	7.893	6.647	16356	17452	14	13		100.00
Decachlorobiphenyl	24.597	21.930	13913	14057	11	12		100.00
Aroclor-1016	9.580	7.870	7401	8073	340	340	80.00- 120.00	100.00
	12.193	8.950	30024	15269	360	350	262.18- 302.18	170.56
	14.257	11.847	7439	8417	330	320	88.45- 128.45	103.22
			Average of Peak Amounts =		350	340		
Aroclor-1260	18.890	15.907	21388	25209	340	340	80.00- 120.00	100.00
	20.590	16.615	30964	20285	350	330	124.99- 164.99	144.79
	21.530	18.397	20499	28535	350	320	76.13- 116.13	95.85
			Average of Peak Amounts =		350	330		

SZ 11/07/02

000976

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
B1ZLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) SOIL Lab Sample ID: LCS-4254

Sample wt/vol: 15.0 (g/mL) G Lab File ID: E1D8005F

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) PFE Date Extracted:11/13/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/22/02

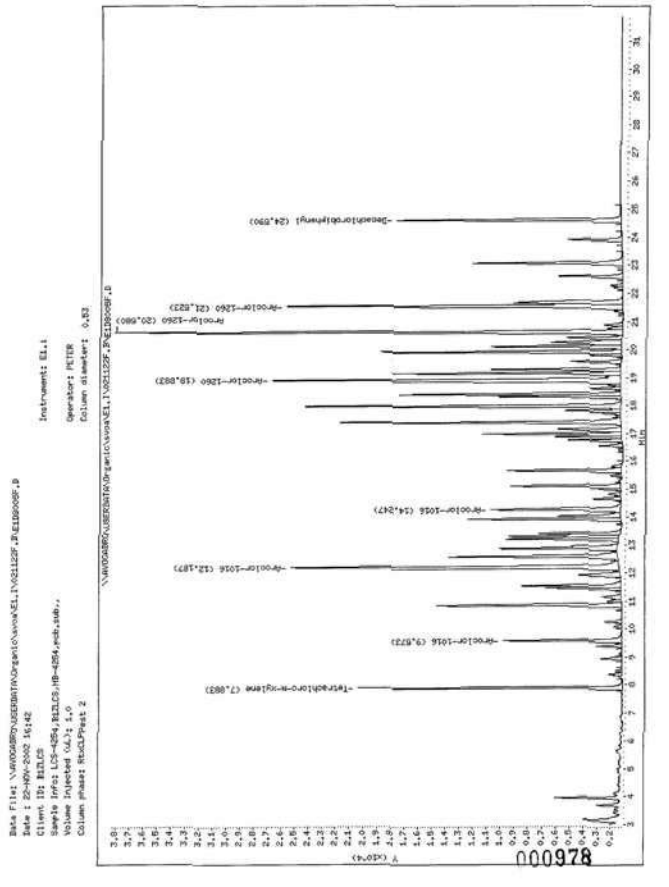
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

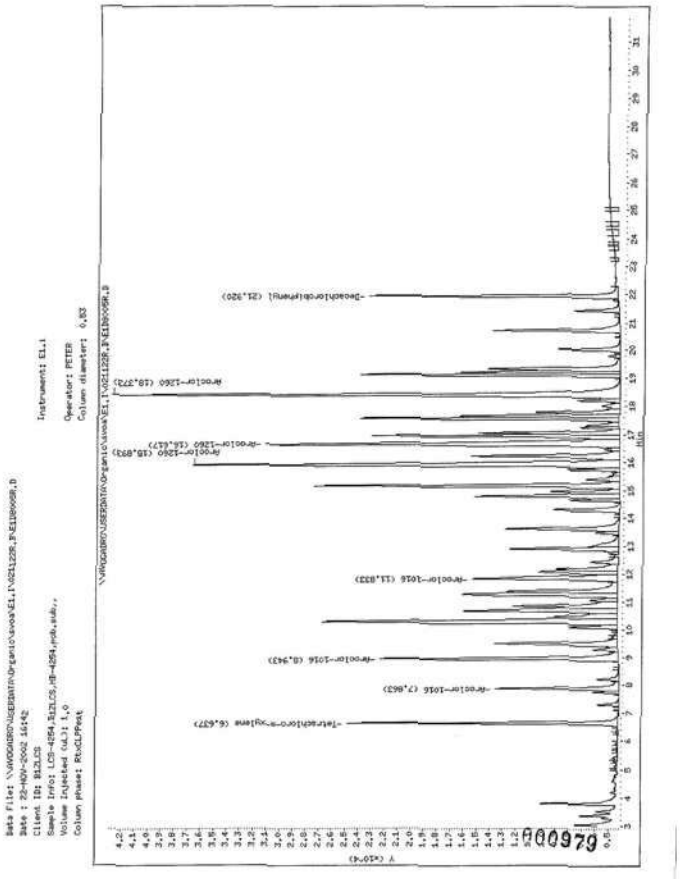
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	410	
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	410	

FORM I PCB

000977



000978



Data File: B1D8005F.D
Report Date: 27-Nov-2002 15:03

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1D8005F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1D8005R.D
Inj Date : 22-NOV-2002 16:42
Sample Info: LCS-4254,B1ZLCS,MB-4254,pcb.sub,,
Misc Info : 3,,LCS,2,,,,,,13-NOV-02,,A1627
Cal Date : 25-NOV-2002 16:36
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021122R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	15.000	Weight of sample extracted (g)
M	0.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Tetrachloro-m-xylene	7.883	6.637	31199	20528	16	16		100.00
Decachlorobiphenyl	24.590	21.920	16316	18883	13	16		100.00
Aroclor-1016	8.573	7.883	8594	9356	400	400	80.00- 120.00	100.00
	12.187	8.963	33856	18050	420	420	255.41- 395.41	277.97
	14.247	11.833	3413	10941	430	410	88.32- 128.32	109.53
			Average of Peak Amounts =		420	410		
Aroclor-1260	18.883	15.893	23156	32414	410	430	80.00- 120.00	100.00
	20.580	16.617	36851	24885	410	420	125.79- 165.79	145.37
	21.523	18.373	24448	38519	410	430	76.29- 116.29	96.42
			Average of Peak Amounts =		410	430		

SZ 11/27/02

000980

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

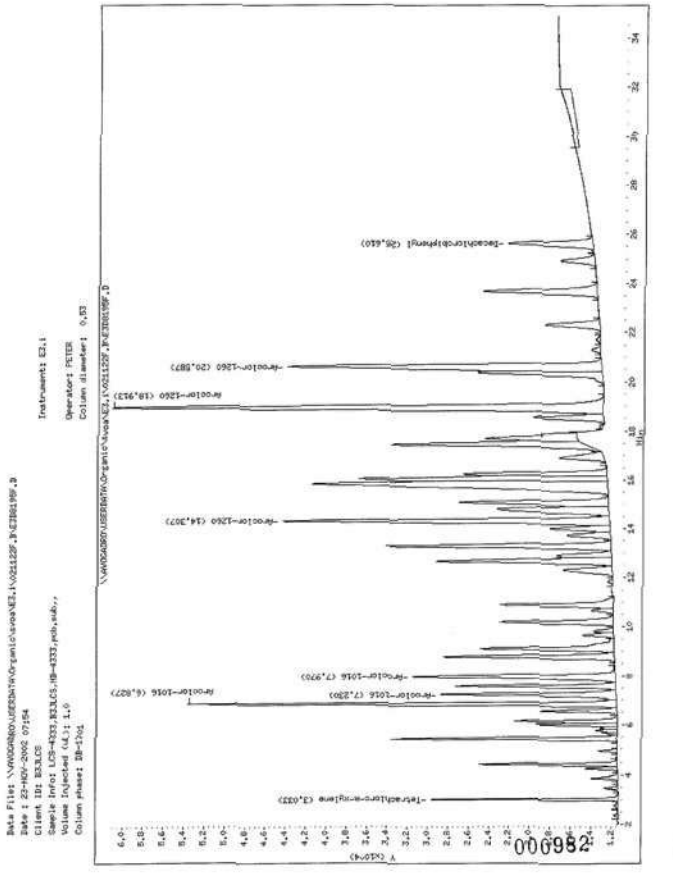
CLIENT SAMPLE NO.
B3JLCS

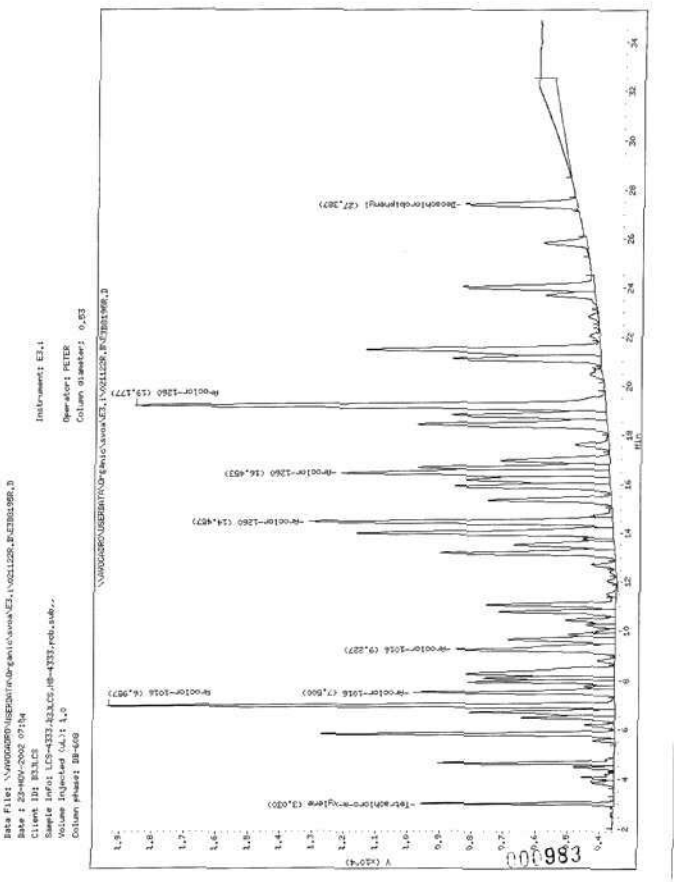
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: LCS-4333
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E3D8195F
% Moisture: _____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/13/02
Concentrated Extract Volume: 2500(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	2.2	
11104-28-2	Aroclor-1221	0.25	U
11141-16-5	Aroclor-1232	0.25	U
53469-21-9	Aroclor-1242	0.25	U
12672-29-6	Aroclor-1248	0.25	U
11097-69-1	Aroclor-1254	0.25	U
11096-82-5	Aroclor-1260	2.2	

FORM I PCB

000981





000983

Data File: E3D8195F.D
Report Date: 26-Nov-2002 16:12

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3D8195F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3D8195R.D
Inj Date : 23-NOV-2002 07:54
Sample Info: LCS-4333,B3JLCS,MB-4333,pcb.sub,,
Misc Info :
Cal Date : 25-NOV-2002 09:32
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	2500.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-Xylene	3.033	3.030	18280	6033	0.044	0.043		100.00
Decachlorobiphenyl	25.610	27.387	8259	3489	0.044	0.044		100.00
Aroclor-1016	7.230	9.227	17161	4953	2.7	2.2	80.00- 120.00	100.00
	6.827	6.957	42111	15841	2.7	2.5	229.71- 265.71	245.39
	7.870	7.500	19402	6249	2.7	2.2	96.07- 136.07	115.88
			Average of Peak Amounts =		2.7	2.2		
Aroclor-1260	14.307	14.457	32064	9498	2.7	2.2	80.00- 120.00	100.00
	18.913	16.453	48117	8366	2.6	2.2	132.88- 172.88	150.06
	20.587	19.177	30852	14691	2.6	2.2	77.97- 117.97	96.21
			Average of Peak Amounts =		2.6	2.2		

SZ 11/26/02

000984

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
B3KLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (Soil/water) WATER Lab Sample ID: LCS-4280

Sample wt/vol: 1000 (g/ml) ML Lab File ID: E3D8198F

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepP/Cont/Sonc) SEPF Date Extracted: 11/11/02

Concentrated Extract Volume: 10000(uL) *Date Analyzed: 11/23/02*

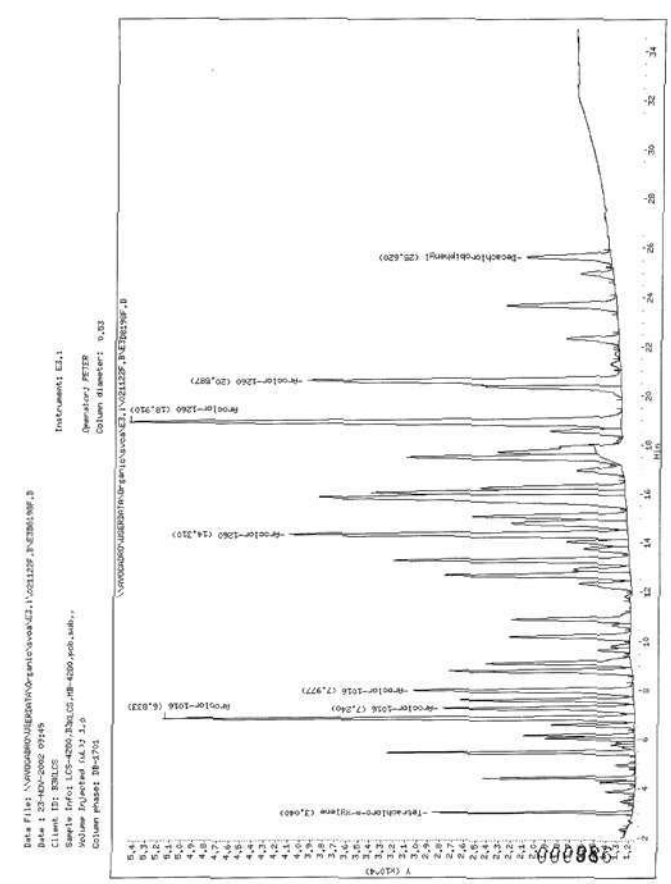
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

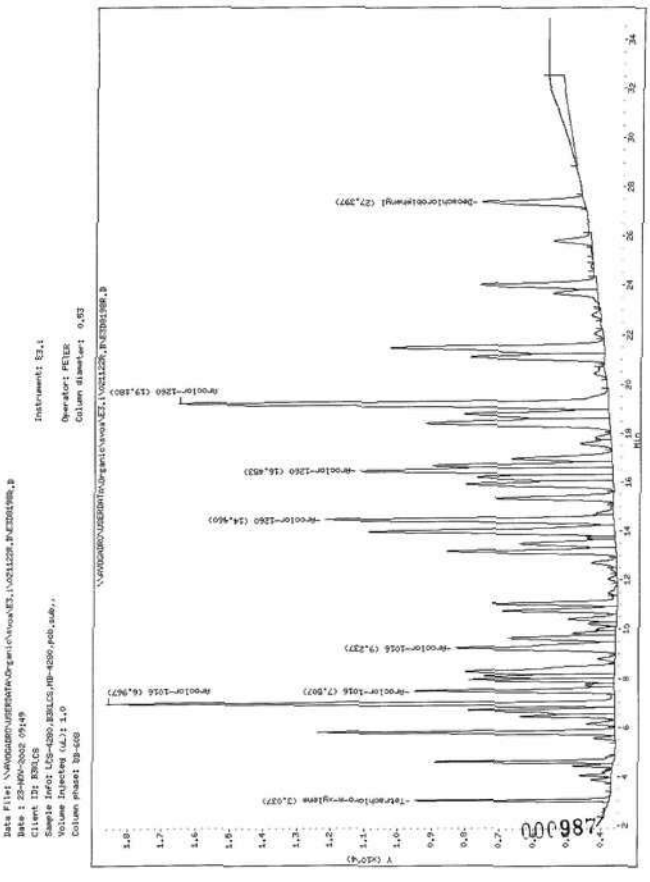
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	8.4	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	7.8	

FORM I PCB

000985



000986



000987

Data File: E3D8198F.D
Report Date: 26-Nov-2002 16:30

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3D8198F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3D8198R.D
Inj Date : 23-NOV-2002 09:49
Sample Info: LCS-4280,B3KLCS,MB-4280,pcb.sub,,
Misc Info :
Cal Date : 25-NOV-2002 09:32
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.040	3.037	16938	5726	0.14	0.16		100.00
Decachlorobiphenyl	25.620	27.397	7074	2995	0.15	0.15		100.00
Aroclor-1016	7.240	9.237	16174	4687	10	8.4	80.00- 120.00	100.00
	6.833	6.967	39983	15007	10	8.5	225.71- 265.71	267.08
	7.977	7.807	19644	5908	10	8.4	96.07- 136.07	115.27
			Average of Peak Amounts =		10	8.4		
Aroclor-1260	14.310	14.460	28677	8832	9.4	8.1	80.00- 120.00	100.00
	18.910	19.453	41457	7867	8.9	7.8	332.88- 372.88	145.24
	20.587	19.180	24588	13723	8.8	7.6	77.97- 117.97	92.72
			Average of Peak Amounts =		9.0	7.8		

SZ 11/26/02

000988

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
B3JLCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: LCSD-4333

Sample wt/vol: 1000 (g/ml) ML Lab File ID: E3D8196F

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/13/02

Concentrated Extract Volume: 2500(uL) Date Analyzed: 11/23/02

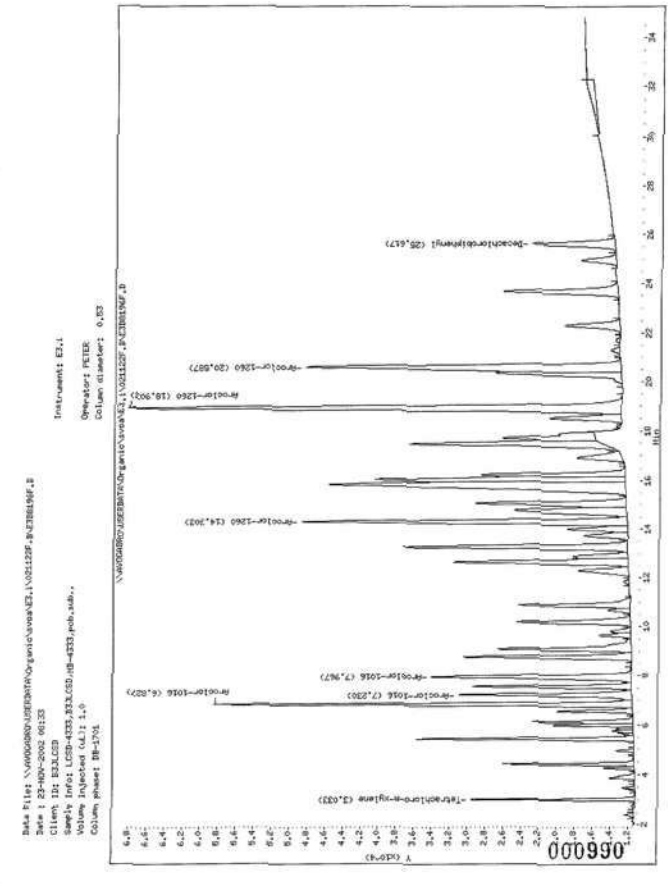
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

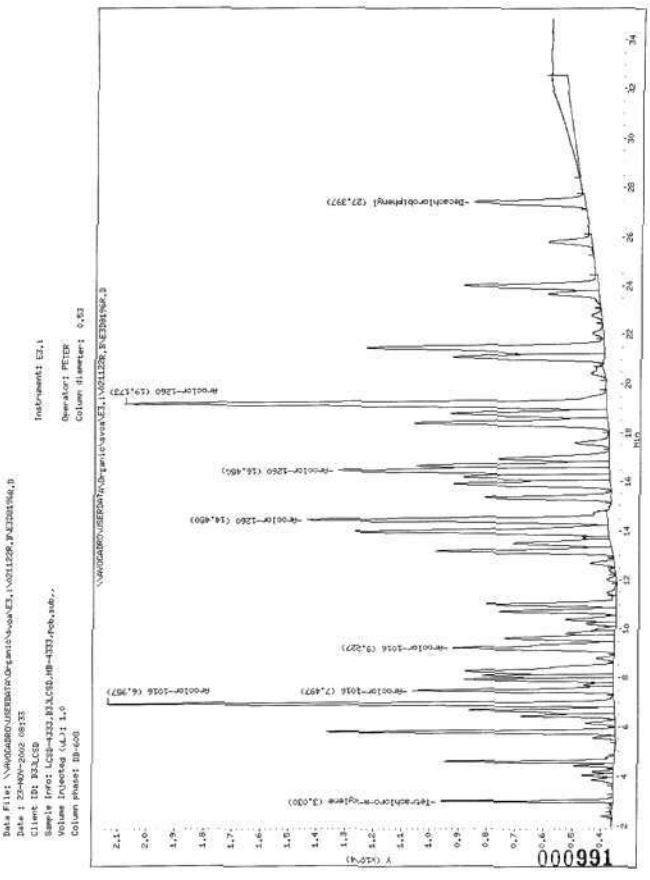
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	2.5	
11104-28-2	Aroclor-1221	0.25	U
11141-16-5	Aroclor-1232	0.25	U
53469-21-9	Aroclor-1242	0.25	U
12672-29-6	Aroclor-1248	0.25	U
11097-69-1	Aroclor-1254	0.25	U
11096-82-5	Aroclor-1260	2.5	

FORM I PCB

000989



000990



000991

Data File: E3D8196F.D
Report Date: 26-Nov-2002 16:12

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3D8196F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3D8196R.D
Inj Date : 23-NOV-2002 08:33
Sample Info: LCSD-4333,B3JLCSD,MB-4333,pcb.sub,,
Misc Info :
Cal Date : 25-NOV-2002 09:32
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	2500.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.033	3.030	19281	4048	0.044	0.042		100.00
Decachlorobiphenyl	25.617	27.397	9186	3886	0.049	0.048		100.00
Aroclor-1016	7.230	9.227	19911	5662	3.2	2.5	80.00- 120.00	100.00
	4.827	6.957	46932	17652	3.1	2.5	225.71- 265.71	243.03
	7.967	7.497	22281	7256	3.2	2.5	98.57- 136.57	115.38
			Average of Peak Amounts =		3.2	2.5		
Aroclor-1260	14.903	14.650	36409	10597	3.1	2.5	80.00- 120.00	100.00
	18.903	16.652	55119	9555	3.0	2.5	132.88- 172.88	151.39
	20.587	19.173	35334	16941	2.0	2.5	77.97- 117.97	97.05
			Average of Peak Amounts =		3.0	2.5		

SZ 11/26/02

000992

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
B3KLCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix: (soil/water) WATER Lab Sample ID: LCSD-4280

Sample wt/vol: 1000 (g/ml) ML Lab File ID: E3D8199F

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/11/02

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/23/02

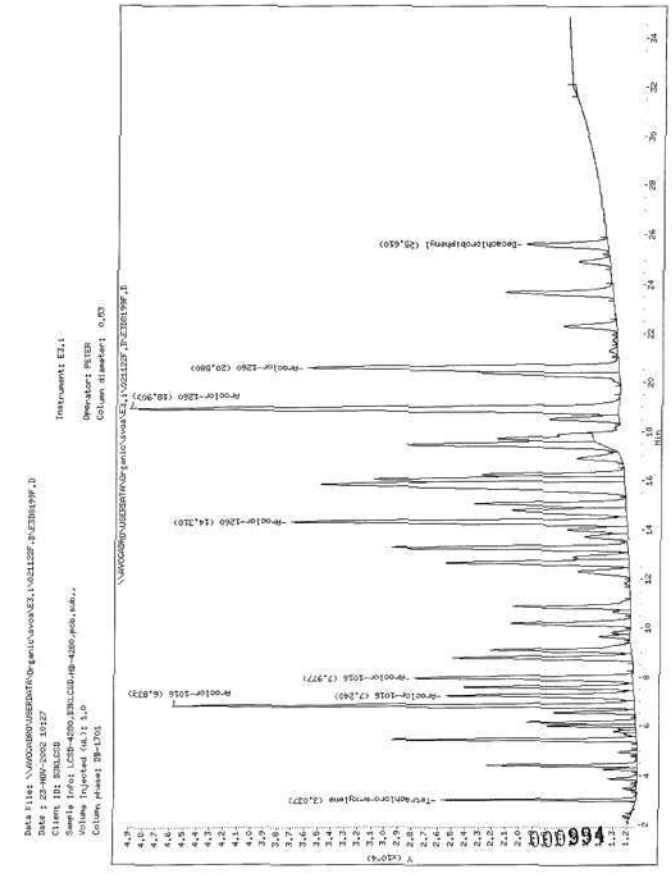
Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

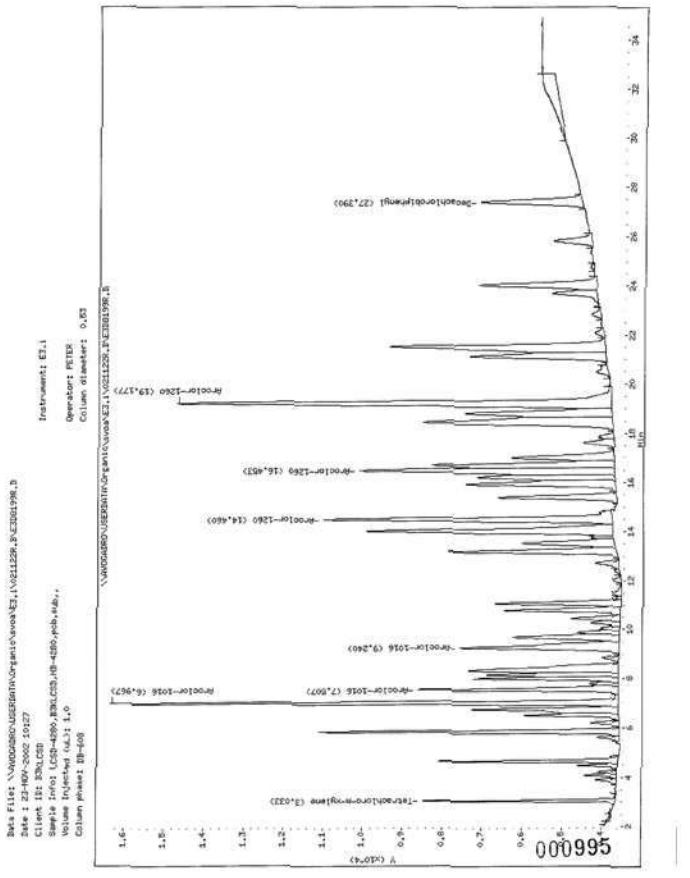
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	7.2	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	6.7	

FORM I PCB

000993



000994



Data File: E3D8199F.D
Report Date: 26-Nov-2002 16:30

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3D8199F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3D8199R.D
Inj Date : 23-NOV-2002 10:27
Sample Info: LCSD-4280,B3KLCSD,MB-4280,pcb.sub,,
Misc Info :
Cal Date : 25-NOV-2002 09:32
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	5.037	5.033	14479	4801	0.14	0.13		100.00
Decachlorobiphenyl	25.410	27.290	5967	2542	0.13	0.13		100.00
Aroclor-1016	7.240	8.240	13893	3995	8.2	7.2	80.00- 120.00	100.00
	6.933	8.947	34310	12795	8.3	7.2	225.71- 345.71	246.96
	7.977	7.527	14136	5028	8.3	7.2	96.07- 136.07	116.14
			Average of Peak Amounts =		8.3	7.2		
Aroclor-1260	14.310	14.460	24970	7221	7.8	6.9	80.00- 120.00	100.00
	18.927	16.453	36260	6389	7.5	6.7	132.88- 172.88	145.21
	20.540	19.177	33106	10899	7.5	6.5	77.97- 117.97	92.54
			Average of Peak Amounts =		7.6	6.7		

SZ 11/26/02

MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : PEST/PCB

Date: 11-11-02 | Blank ID: MB 4149 | LCS ID: LCS 4149 | Analyst: SG

Method & SOP #: Aq. 3510C (Sep.) 3535C (Tag Lag) Sol. 3550B (Sonic) 3540C (Soxhlet) Other: | Spiked By: SP | Witness: | Matrix: Aqueous Soil Wipe Oil Other: | Solvent Lot #: X13204 | Project(s): A1588 A1589 A1590 A1591 A1592

Time Started: 16:00 | Time Ended: 18:00

Sample ID	Client ID	Sample Wt(gm) Vol (ml)	Surrogate Spike Added	Matrix Spike Added	Emulsion	Extraction Date / Analyst	Final Concentration Date / Analyst	Final Concentration Volume	Acid / Copper Cleanup Date / Analyst	Date Extract Trans.
MB 4149		30.0	0p=021105 1ml				11-20-02 JC	10ml	11-20-02 JC	11-20-02
LCS 4149		30.0		0p=021108 1ml						
A1588	008	30.4								
	009	30.4								
	010	30.4								
	011	30.8								
	012	30.5								
	013ms	30.3		0p=021105 1ml						
	013msd	30.2		0p=021105 1ml						
	014	30.2								
	015	30.5								
	016	30.3								
	017	30.8								
	018	30.5								
A1589	020	30.7				11-20-02	11-20-02 JC	10ml	11-20-02 JC	11-20-02
A1590	021	30.1				10-18-02	10-18-02 JC	10ml	10-18-02 JC	10-18-02
A1591	022	30.2				10-18-02	10-18-02 JC	10ml	10-18-02 JC	10-18-02
A1592	023	30.3				11-20-02	11-20-02 JC	10ml	11-20-02 JC	11-20-02
A1587	024	30.5	0p=021105 2ml			11-20-02	11-20-02 JC	10ml	11-20-02 JC	11-20-02

Comments:

Water Bath Temp. | Sonicator Tuned? Yes/No

Logbook ID: 50.0149-1/02 | Reviewed By: KL 12/5/02 | Logbook Page:

MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : PEST/PCB

Date: 11-11-02 | Blank ID: MB 4149 | LCS ID: LCS 4149 | Analyst: SG

Method & SOP #: Aq. 3510C (Sep.) 3535C (Tag Lag) Sol. 3550B (Sonic) 3540C (Soxhlet) Other: | Spiked By: SP | Witness: | Matrix: Aqueous Soil Wipe Oil Other: | Solvent Lot #: X13204 | Project(s): A1587

Time Started: 16:00 | Time Ended: 18:00

Sample ID	Client ID	Sample Wt(gm) Vol (ml)	Surrogate Spike Added	Matrix Spike Added	Emulsion	Extraction Date / Analyst	Final Concentration Date / Analyst	Final Concentration Volume	Acid / Copper Cleanup Date / Analyst	Date Extract Trans.
A1587	030	30.4	0p=021105 2ml			11-20-02	11-20-02 JC	10ml	11-20-02 JC	11-20-02
A1587	031	30.9								
	042	30.4								
A1587	043	30.1	0p=021105 2ml			11-20-02	11-20-02 JC	10ml	11-20-02 JC	11-20-02

Comments:

Water Bath Temp. | Sonicator Tuned? Yes/No

Logbook ID: 50.0149-1/02 | Reviewed By: KL 12/3/02 | Logbook Page:

MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : PEST/PCB

Date: 11-13-02 | Analysis: 8082 | Method & SOP #: Aq: 3510C (SepF) 3520C (Liq/Liq) Soil: 3550B (Sonic) 3540C (Soxhlet) | Matrix: (Aqueous) Soil Wipe Oil | Project(s): A1627, A1642

Blank ID: MB-4333 | LCS ID: LCS,LCSD-4333 | Analyst: BP | Spiked By: BP | Witness: | Solvent Lot #: X13E04 | Time Started: 16:00 | Time Ended: 17:00

Sample ID	Client ID	Sample Wt (g) / Vol (ml)	Surrogate Spike Added	Matrix Spike Added	Emulsion	Esterification Date / Analyst	Final Concentration Date / Analyst		Final Concentration Volume	Acid / Copper Cleanup Date / Analyst		Date Extract Trans.
MB-4333		1000mL	OPW021010A 250µL									
LCS-4333				OPW021002A 250µL			11-13-02	BP	2.5mL	11-13-02	BP	11-13
LCSD-4333			OPW021010B 250µL	OPW021002B 250µL								
91627-36			OPW021010B 1mL						2.5mL			
91627-37			OPW021010B 1mL						10mL			
91642-01			OPW021010B 250µL						10mL			
91642-02		1000mL	OPW021010B 250µL						2.5mL			
91642-03		1000mL	OPW021010B 250µL				11-13-02	BP	2.5mL	11-13-02	BP	11-13

Comments:

Water Bath Temp. 40°C | Sonicator Tuned? Yes/No

Logbook ID: 50.0149-1/02 | Reviewed By: 11-14-02 | Logbook Page: 000082

001001

MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : PEST/PCB

Date: 11-13-02 | Analysis: PCB | Method & SOP #: Aq: 3510C (SepF) 3520C (Liq/Liq) Soil: 3550B (Sonic) 3540C (Soxhlet) Other: 3545 | Matrix: (Aqueous) Soil Wipe Oil Other: | Project(s): A1627, A1592

Blank ID: MB-4254 | LCS ID: LCS-4254 | Analyst: JL | Spiked By: JL | Witness: BP | Solvent Lot #: | Time Started: 17:00 | Time Ended:

Sample ID	Client ID	Sample Wt (g) / Vol (ml)	Surrogate Spike Added	Matrix Spike Added	Emulsion	Esterification Date / Analyst	Final Concentration Date / Analyst		Final Concentration Volume	Acid / Copper Cleanup Date / Analyst		Date Extract Trans.
MB-4254		15.0	1ml OPW021010B				11-13-02	BP	5ml	11-13-02	BP	11-13-02
LCS-4254		15.0		500µL OPW021002A								
A1627-050	9	15.2										
054	15	15.0										
055	17	15.1										
056	9	15.0										
057	13	15.9				JL						
059	9	15.0				11-13-02						
A1627 059	15	15.4										
A1592-002		15.4										
007		15.6										
004		15.0										
004A1		15.1		800µL OPW021002B								
004A2		15.3		500µL OPW021002A								
005		15.4										
006		15.7										
007		15.3										
008		15.4										
A1592 017		15.6	1ml OPW021010B				11-13-02	BP	5ml	11-13-02	BP	11-13-02

Comments:

Water Bath Temp. | Sonicator Tuned? Yes/No

Logbook ID: 50.0149-1/02 | Reviewed By: KL 12/3/02 | Logbook Page: 000083

000999

Percent Moisture and Percent Solids Report

Tuesday, November 26, 2002

Mitkem Sample ID	Client Sample ID	Analyzed	Percent Moisture	Percent Solids	Validated
A1627-01A	04 NOV 02 AOC1+12-T	11/14/2002	19	81	Yes
A1627-02C	04 NOV 02 AOC1-12-T	11/14/2002	13	87	Yes
A1627-03C	04 NOV 02 AOC1-12T	11/14/2002	9	91	Yes
A1627-04A	04 NOV 02 AOC1+12-S	11/14/2002	20	80	Yes
A1627-05A	04 NOV 02 AOC1+12-S	11/14/2002	17	83	Yes
A1627-08A	04 NOV 02 AOC1+12-S	11/14/2002	39	61	Yes
A1627-09A	04 NOV 02 AOC1+12-S	11/14/2002	11	89	Yes
A1627-10A	04 NOV 02 AOC1+12-S	11/14/2002	23	77	Yes
A1627-11A	04 NOV 02 AOC1+12-S	11/14/2002	19	81	Yes
A1627-12A	04 NOV 02 AOC1+12-S	11/14/2002	12	88	Yes
A1627-14A	05 NOV 02-AOC13-SS-	11/14/2002	11	89	Yes
A1627-15A	05 NOV 02-AOC13-SS-	11/14/2002	20	80	Yes
A1627-16A	05 NOV 02-AOC13-SS-	11/14/2002	11	89	Yes
A1627-17A	05 NOV 02-AOC13-SS-	11/14/2002	9	91	Yes
A1627-18A	05 NOV 02-AOC13-SS-	11/14/2002	16	84	Yes
A1627-19A	05 NOV 02-AOC13-SS-	11/14/2002	13	87	Yes
A1627-20A	05 NOV 02-AOC13-SS-	11/14/2002	16	84	Yes
A1627-21A	05 NOV 02-AOC13-SS-	11/14/2002	7	93	Yes
A1627-22A	05 NOV 02-AOC13-SS-	11/14/2002	20	80	Yes
A1627-23A	05 NOV 02-AOC13-SS-	11/14/2002	6	94	Yes
A1627-24A	05 NOV 02-AOC13-SS-	11/14/2002	12	88	Yes
A1627-26A	05 NOV 02AOC13-SS-D	11/14/2002	16	84	Yes
A1627-27A	05 NOV 02-AOC13-SS-	11/14/2002	16	84	Yes
A1627-28A	05 NOV 02-AOC13-SS-T	11/14/2002	14	86	Yes
A1627-29C	05 NOV 02-AOC13-SS-T	11/14/2002	16	84	Yes
A1627-30C	05 NOV 02-AOC13-SS-T	11/14/2002	15	85	Yes
A1627-31C	05 NOV 02-AOC13-SS-T	11/14/2002	6	94	Yes
A1627-32A	04 NOV 02 AOC13-SS-T	11/14/2002	2	98	Yes
A1627-33A	04 NOV 02 AOC13-SS-T	11/14/2002	10	90	Yes
A1627-34A	04 NOV 02 AOC13-SS-T	11/14/2002	16	84	Yes
A1627-35A	05 NOV 02 AOC13-SS-T	11/14/2002	10	90	Yes
A1627-36A	04 NOV 02 AOC13-SS-T	11/14/2002	16	84	Yes
A1627-37A	04 NOV 02 AOC13-SS-T	11/14/2002	11	89	Yes
A1627-38A	06 NOV02-AOC2-SS-TB	11/14/2002	15	85	Yes
A1627-39A	06 NOV02-AOC2-SS-TB	11/14/2002	7	93	Yes
A1627-40A	06 NOV02-AOC2-SS-TB	11/14/2002	17	83	Yes
A1627-42A	07 NOV02-AOC2-SS-TB	11/14/2002	7	93	Yes
A1627-43A	07 NOV02-AOC2-SS-TB	11/14/2002	10	90	Yes
A1627-44A	04 NOV02-AOC1+12-S	11/14/2002	2	98	Yes
A1627-45A	04 NOV02-AOC1+12-S	11/14/2002	11	89	Yes
A1627-46A	04 NOV02-AOC1+12-S	11/14/2002	4	96	Yes

Page 1 of 2

001002

MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : PEST/PCB

Date: 11-11-02 | Analysis: 8082 | Method & SOP #: Aq: 3510C (SepF) 3520C (Liq/Liq) Soil: 3550B (Sonic) 3540C (Soxhlet) Other: | Matrix: (Aqueous) Soil Wipe Oil | Project(s): A1627

Blank ID: MB 4280 | LCS ID: LCS,LCSD 4280 | Analyst: BP | Spiked By: BP | Witness: | Solvent Lot #: X13E04 | Time Started: 12:00 | Time Ended: 13:00

Sample ID	Client ID	Sample Wt (g) / Vol (ml)	Surrogate Spike Added	Matrix Spike Added	Emulsion	Esterification Date / Analyst	Final Concentration Date / Analyst		Final Concentration Volume	Acid / Copper Cleanup Date / Analyst		Date Extract Trans.
MB 4280		1mL	OPW021010B 1ml				11-20-02	BP	1ml	11-20	BP	11-20-02
LCS 4280				OPW021002B 1ml								
LCSD 4280				OPW021002B 1ml								
A1627 007												
013												
025												
A1627 051		10mL	OPW021010B 1ml				11-20-02	BP	10ml	11-20	BP	11-20-02

Comments:

Water Bath Temp. | Sonicator Tuned? Yes/No

Logbook ID: 50.0149-1/02 | Reviewed By: SBL 11/29/02 | Logbook Page: 000074

001000

Mitkem Sample ID	Client Sample ID	Analyzed	Percent Moisture	Percent Solids	Validated
A1627-47A	04 NOV02-AOC1+12-S	11/14/2002	7	93	Yes
A1627-49A	07 NOV02-AOC2-SS-TB	11/14/2002	12	88	Yes
A1627-50A	07 NOV02-AOC2-SS-TB	11/14/2002	9	91	Yes
A1627-52A	07 NOV02-AOC2-SS-D3	11/14/2002	93	7	Yes
A1627-52A	07 NOV02-AOC2-SS-D3	11/20/2002	10	90	Yes
A1627-53A	07 NOV02-AOC2-SS-D3	11/14/2002	10	90	Yes
A1627-54A	07 NOV02-AOC2-SS-D4	11/14/2002	15	85	Yes
A1627-55A	07 NOV02-AOC2-SS-D4	11/14/2002	12	88	Yes
A1627-56A	07 NOV02-AOC2-SS-TB	11/14/2002	9	91	Yes
A1627-57A	07 NOV02-AOC2-SS-TB	11/14/2002	13	87	Yes
A1627-58A	07 NOV02-AOC2-SS-TB	11/14/2002	9	91	Yes
A1627-59A	07 NOV02-AOC2-SS-TB	11/14/2002	15	85	Yes

001003

MITKEM CORPORATION - PEST/PCB RUN LOGBOOK: INSTRUMENT E1

Sequence: 11/19/02 Method: 8081AE1 ICAL Date: 11/19/02

Date	Sample ID		Client ID	File Name	Dilution	F	R	Comments	Analyst
11/19	Prime			E1D78	95.97				SZ
	AR 1232B	L3		E1D78	98			ICAL ok!	
	AR 1242 B	L1		E1D78	99				
	↓	L2		E1D79	00				
	↓	L3		↓	01				
	↓	L4			02				
	AR 1242 B	L5			03				
	AR 1248 B	L1			04				
	↓	L2			05				
	↓	L3			06				
	↓	L4			07				
	AR 1248 B	L5			08				
	AR 1254 B	L1			09				
	↓	L2			10				
	↓	L3			11				
	↓	L4			12				
	AR 1254	L5			13				
	AR 1660 B	L1			14				
	↓	L2			15				
	↓	L3			16				
	↓	L4			17				
	AR 1660 B	L5			18				
	AR 1660 SS				19				
	PIBLK				20				
	MB-4149				21	✓			
	LCS-4149				22	✓			
	A1588-08				23	✓		clean hump?	
	↓	09		↓	24	✓		↓	
	↓	10			25	✓			
11/19	A1588-	11		E1D79	26	✓			SZ

Standard ID's

Comments

Logbook ID 60.0175-1/02 Reviewed by SZ 11/20/02 Logbook Page # 000015 001004

MITKEM CORPORATION - PEST/PCB RUN LOGBOOK: INSTRUMENT E1

Sequence: 11/19/02 Method: 8081AE1 ICAL Date: 11/19/02

Date	Sample ID		Client ID	File Name	Dilution	F	R	Comments	Analyst
11/20	A1588-	13		E1D79	27				SZ
	↓	V3MS			28				
	A1588	V3MSD			29				
	PIBLK				30				
	AR 1248A				31	✓	✓		
	AR 1242A				32				
	AR1254A				33	✓	✓		
	AR1660A				34	✓	✓		
	PIBLK				35				
	A1588-14C				36		✓		
	A1588-15C				37		✓		
	A1588-16C				38		✓		
	A1588-17C				39		✓		
	A1588-19C				40		✓		
	A1588-20A				41		✓		
	A1694-01A	←	FC-W1		42			Vf=25 all doubt?	
	A1694-02A	←	FC-W1A		43				
	A1694-03A	←	FC-W2		44				
	A1694-04A	←	FC-W2A		45				
	PIBLK				46				
	AR 1242 BB				47	✓	✓		
	AR1248BB				48	✓	✓		
	AR1254BB				49	✓	✓		
	AR1660BB				50	✓	✓		
	PIBLK				51				
	A1694-05A		FC-W3		52			Vf 2.5ml	
	A1694-06A		FC-W3A		53				
	A1694-07A		FC-W4		54				
	A1694-08A		FC-W4A		55			1254 known	
11/20	MB-4403		BBLKIF	E1D79	56		✓	Vf 2.5ml bottle	SZ

Standard ID's

Comments

Logbook ID 60.0175-1/02 Reviewed by SZ 11/20/02 Logbook Page # 000016 001005

MITKEM CORPORATION - PEST/PCB RUN LOGBOOK: INSTRUMENT E1

Sequence: E102 1122 Method: 8081AE1 ICAL Date:

Date	Sample ID		Client ID	File Name	Dilution	F	R	Comments	Analyst
11/22	AR 1248	BF		E1D79	99	✓	✓		SZ
	1248			E1D800	00	✓	✓		
	1254	↓		E1D 80	02 01	↑	↑ ✓	Acc! → re-inject	
	AR1660	BF		↓	02 02	✓	✓		
	AR1254	BF			03	✓	✓		↓
	MB-4254			E1D80	04	✓	↑	↑	SZ
	LCS-4254				05	✓	✓	soil 1627 mix for 1254 ICAL	
	A1694-	08			06	✓	✓		
	A1627-	02			07	✓	✓		
	↓	29			08	✓	✓		
	↓	30			09	✓	✓		
	↓	31			10	✓	✓	1254?	
	↓	43			11	✓	✓		
	A1627-	43			12	✓	✓		
	PIBLK	44			13				
	AR 1242	BG			14	✓	✓		
	1242				15	↑	✓		
	1254	↓			16	✓	✓		
	AR 1660	BG			17	Acc ✓	↑	✓	
	PIBLK				18				
	A1627-	50			19			clean TCL↑	
	↓	54			20				
	↓	55			21				
	↓	56			22				
	↓	57			23				
	↓	58			24				
	A1627-	59			25			↓	
	PIBLK				26				
	↓			↓	27				↓
11/22	AR 1242	BH		E1D80	28	✓	✓		SZ

Standard ID's

Comments

Logbook ID 60.0175-1/02 Reviewed by 12/3/02 Logbook Page # 00001006

MITKEM CORPORATION - PEST/PCB RUN LOGBOOK: INSTRUMENT E1

Sequence: 11/26/02 | Method: 8081 AE1 | ICAL Date: 11/19/02

Date	Sample ID		Client ID	File Name		Dilution	F	R	Comments	Analyst
11/22	AR1248	BH		E1D80	29		↑	↑		SZ
↓	1254	↓		↓	30		↑	↑		↓
11/22	AR 1660	BH		E1D80	31		✓	✓		SZ
11/25	PCB-MS	BA		E1D80	33		✓	✓	DPWOLILETA OK	SZ
11/26	PIBLK				34					SZ
	AR1242	BE			36		✓	✓		
	AR1248				37		✓	✓		
	AR1254				38		↑	✓	2nd-injection	
	AR1660	↓			39		✓	✓		
	AR 1254	BE			40		✓	✓		
	PIBLK				41					
	A1694-	08			42		↓		1254	
	MB- 4477				43		✓		water	
	LCS- 4478				44		✓			
	A1738 -	01			47		✓			
		02			48		✓			
	A1738-	03			49		✓		↓	
	PIBLK				50					
	AR 1242	BK			51		✓	✓		
	1248	↓			52		✓	✓		
	↓ 1254	↓			53		↑	✓		
	AR 1660	BK			54		↑	✓		
	PIBLK				55					
	MB - 4498				56			✓		
	LCS- 4498				57			✓		
	LCSD- 4498				58			✓		
	A1730-	02			59			✓	1660	
	AR1242	BL			61		✓	✓		
↓	1248	↓			62		✓	✓		
11/26	AR 1254	BL		E1D80	63		↑ ✓	✓		SZ
	AR 1660	BL			64		✓	✓		

Standard ID's

Comments

Logbook ID 60.0175-1/02 Reviewed by k 12/9/02 | Logbook Page # 000207

MITKEM CORPORATION - PEST/PCB RUN LOGBOOK: INSTRUMENT E3

Sequence: 02211 11 | Method: PCB | ICAL Date: 11/1/02

Date	Sample ID		Client ID	File Name	Dilution	F	R	Comments	Analyst
11/1	PRIME			E3D79	20				
	PRIME				21				
	AR1232A	L3			22			I-Cal OK	
	AR1242A	L1			23			F: linear	
		L2			24			R: average (except for 2)	
	↓	L3			25				
		L4			26				
	AR1242A	L5			27				
	AR1248A	L1			28				
		L2			29				
	↓	L3			30				
		L4			31				
	AR1248A	L5			32				
	AR1254A	L1			33				
		L2			34				
	↓	L3			35				
		L4			36				
	AR1254A	L5			37				
	AR1660A	L1			38				
		L2			39				
	↓	L3			40				
		L4			41				
	AR1660A	L5			42				
	AR1660	S5			43				
	PIBLK				44				
	MB- 42	25			45	✓	✓		
	LCS- 42	25			46	✓			
	A1606 -	01A			47	✓		Clean	
↓	↓	02A		↓	48	✓		↓	↓
11/1	A1606 -	03A		E3D79	49	✓		Clean	

Standard ID's

Comments

Logbook ID 60.0146-1/02 Reviewed by 11/12/02 | Logbook Page # 000008

MITKEM CORPORATION - PEST/PCB RUN LOGBOOK: INSTRUMENT E3

Sequence: 11/22/02 | Method: PCB | ICAL Date: 11/1/02

Date	Sample ID		Client ID	File Name	Dilution	F	R	Comments	Analyst
11/22	A1687-	58		E3D81	85		✓	SPLP	SZ
	A1687-	59			86		✓	↓	
	A1704-	01			87		✓	soil Surf clean	
	PIBLK				88				
	AR1248	AJ			89	↑	✓		
	1248	↓			90	↑	✓		
	↓ 1254	↓			91	↑	✓		
	AR1660	AJ			92	✓	✓		
	PIBLK				93				
	MB- 4333				94		✓	water 1127	
	LCS- 4333				95		✓		
	LCSD- 4333				96		✓		
	MB- 4280				97		✓		
	LCS- 4280			↓	98		✓		
	LCSD-4280			E3D81	99		✓	↓	
	A1687-	07		E3D82	00		✓	water	
		13			01		✓		
	↓	25			02		✓	↓	
	A1687-	51			03		✓		
	PIBLK				04		✓		
	AR1242	AK			05	✓	✓		
	1248				06	↑	✓		
	↓ 1254				07	✓	✓		
	AR 1660	AK			08	✓	✓		
	PIBLK				09		✓		
	A1687-	36			10		✓		
	A1687-	37			11		✓		
	PIBLK				12				
↓	AR1248	AL		↓	13	✓	✓		↓
11/22	AR1248	AL		E3D82	14	✓	✓		SZ

Standard ID's

Comments

Logbook ID 60.0146-1/02 Reviewed by SBL 11/29/02 | Logbook Page # 001009 000027

MITKEM CORPORATION - PEST/PCB RUN LOGBOOK: INSTRUMENT E3

Sequence: 11/22/02 | Method: PCB | ICAL Date: 11/1/02

Date	Sample ID		Client ID	File Name	Dilution	F	R	Comments	Analyst
11/22	AR1254	AL		E3D81	15	✓	✓		SZ
↓	1660	AL		↓	16	✓	✓		↓
11/22	PIBLK			E3D81	17				SZ
11/26	PRIME			E3D82	18				
	AR1254	AM			19	✓	↓		
	AR1248	↓			20	✓	↓		
	AR1254	↓			21	↓	✓		
	AR1660	AM			22	✓	✓		
	PIBLK				23				

Standard ID's

Comments

Logbook ID 60.0146-1/02 Reviewed by SBL 11/29/02 | Logbook Page # 001010 000028

MITKEM CORPORATION: Sample Receipt Tracking Logbook

Project	Date Received	Client	Storage Location	#s/ Analyst/ Date In	#s/ Analyst/ Date Out	#s/ Analyst/ Date In	#s/ Analyst/ Date Out	#s/ Analyst/ Date In	#s/ Analyst/ Date Out	Dilution After	Date Disposed
A1625	11-8-02	Lows Revere	H2							1-9-03	
A1627	11-8-02	HEP	UOA 01-02							2-9-03	
A1628	11-8-02	WATERMARK	UOA 01-02							1-8-03	
A1629	11-9-02	TERRA TECH	UOA 01-03 02-03							2-9-03	
A1630	11-9-02	TERRA TECH	UOA 01-06							2-9-03	

Logbook page 78

Reviewed By

Logbook ID 30.0197-1/02

001011

MITKEM CORPORATION EXTRACTS TRANSFER LOGBOOK: PESTICIDES/PCB ANALYSIS

Date Transferred from Prep Lab	Lab ID	Transferred by	Received by	Storage Location	Comments
11-13-02	LCS-4951	JC	SZ	R6	
	LCSD-4951				
	A1585-005R6				
	A1604-001				
	A1604-002				
	A1615-001				
	A1615-002				
	A1615-003				
	A1592-017				
	MB-4187				
11-13-02	LCS-4187	JC			
	MB 4333	BP			
	LCS 4333				
	LCSD 4333				
	A1627 001				
	002				
	A1627 003				
	A1627 036				
11-13-02	A1627 037	BP			
11-14-02	MB-4322	(BP)			
	LCS-4322				
	LCSD-4322				
	LCS-4323				
	LCSD-4323				
	A1622-04				
	A1633-01				
	-02				
	A1633-03				
	A1646-01				
	-02				
11-14-02	A1646-03	(BP)	SZ	R6	
11-15-02	MB-4339	JC		R6	
11-15-02	LCS-4339	JC		R6	
	~~LCSD-4339~~ JC 11-15-02				NO LCSD W/ this project

Logbook ID: 60.0132-1/02

Reviewed by 11/15/02

Logbook page 000002

001012

MITKEM CORPORATION EXTRACTS TRANSFER LOGBOOK: PESTICIDES/PCB ANALYSIS

Date Transferred from Prep Lab	Lab ID	Transferred by	Received by	Storage Location	Comments
11-20-02	MB-4322	JC		R6	
	LCS-4322				
	LCSD-4322				
	A1698 -001				
	A1698 002				
11-20-02	A1698 003	JC		R6	
11-20-02	MB-4345	(BP)		R6	
	LCS-4345				
	A1636-01				
	-02				
	-03				
	-03MS				
	-03MSD				
	A1636 -04				
	MB-4084				
	LCS-4084				
	A1561-01				
	-02				
	-03				
	-03MS				
	-03MSD				
11-20-02	A1561 -04	(BP)		R6	
	MB 4280	BP		R6	
	LCS 4280				
	LCSD 4280				
	A1627 007				
	013				
	036				
	A1627 051				
	MB 4344				SPLP
	LCS 4344				
	LCSD 4344				
	A1627 002				
11-21-02	A1627 039	BP		R6	SPLP

Logbook ID: 60.0132-1/02

Reviewed by 11/21/02

Logbook page 000003

001013

MITKEM CORPORATION EXTRACTS TRANSFER LOGBOOK: PESTICIDES/PCB ANALYSIS

Date Transferred from Prep Lab	Lab ID	Transferred by	Received by	Storage Location	Comments
11-19-02	MB 4345	JC		RL	
	LCS-4345				
	LCSD-4345				
	A1636-001				
	003				
	003				
	003MS				Post MS
	003MSD				Post MSD
	003MS				PCB MS
	003MSD				PCB MSD
11-19-02	A1676-004	JC		R6	
11-19-02	MB-4305	(BP)		R6	
	LCS-4306				
11-19-02	LCSD-4306	(BP)		R6	
11-19-02	MB-4747	JC		R6	
	LCS-4747				
	A1598-001				
	001MS				
	001MSD				
	002				
	003				
11-19-02	A1598 004	JC		R6	
	MD 4354	BP		R6	
	LCS 4354				
	A1592 002				
	003				
	004				
	004MS				
	004MSD				
	005				
	006				
	007				
	008				
11-19-02	A1592 013	BP		R6	

Logbook ID: 60.0132-1/02

Reviewed by 11/19/02

Logbook page 000004

001014

MITKEM CORPORATION EXTRACTS TRANSFER LOGBOOK: PESTICIDES/PCB ANALYSIS

Date Transferred from Prep Lab	Lab ID		Transferred by	Received by	Storage Location	Comments
11-19-02	A1592	014	BP		R6	
	↓	015				
	A1592	016				
	A1627	050				
		054				
		055				
		056				
		057				
↓	↓	058	↓			
11-19-02	A1627	059	BP			
11-20-02	A1588-	008	JC			
		009				
		010				
		011				
		013				
		013ms				
		013msd				
		014				
		015				
		016				
		017				
↓	↓	~~016~~ JC 11-20	↓			
11-20-02	A1588	019	JC			
	A1627 -	020	JC			
		029				
		030				
		031				
↓	↓	042				
	A1627 -	043	↓			
	MB - 4149					
11-20-02	LCS - 4149		JC			
11-20-02	MA: 4096		BP			
11-20-02	A1585 -	05	BP	74	R6	625 Extract for 608 Analysis 625 Extract for 608 Analysis

Logbook ID: 60.0132-1/02

Reviewed by 11/21/02

Logbook page 000005

001015

MITKEM CORPORATION

* PCB Organics *

(SPLP)

001016

FORM 2
WATER PCB SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

GC Column(1): DB-1701 ID: 0.53 (mm) GC Column(2): DB-608 ID: 0.53 (mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	BBLK3H	86	83	62	69			0
02	B3HLCS	76	73	69	72			0
03	B3HLCSD	82	78	68	72			0
04	12TB1524	80	76	31	100			0
05	13SSTB3435	74	69	39	36			0
06	13SSTB2413	74	68	35	41			0
07	13SSTB3124	81	75	24*	31			1
08	2SSTB4724	75	70	47	48			0
09	2SSTB4802	70	65	27*	33			1
10	2SSTB4246	73	68	44	48			0
11	2SSD4A46	75	70	44	47			0
12	2SSD4B46	84	78	45	45			0
13	2SSTB4302	88	86	49	50			0
14	2SSTB4402	76	72	37	38			0
15	2SSTB4524	74	72	43	43			0
16	2SSTB4602	80	77	44	44			0
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS
S1 (TCX) = Tetrachloro-m-xylene (29-158)
S2 (DCB) = Decachlorobiphenyl (30-164)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

001017

FORM 3
WATER PCB LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix Spike - Sample No.: B3HLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Aroclor-1016	*33*		*29*	*88*	*45-162*
Aroclor-1260	33		28	85	54-159

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	33	29	88	0	40	45-162
Aroclor-1260	33	27	82	4	40	54-159

 # Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS:

001018

FORM 4
PCB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.
BBLK3H

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Lab Sample ID: MB-4344 Lab File ID: E3D8153F
Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc) SEPF
Sulfur Cleanup (Y/N) Y Date Extracted: 11/20/02
Date Analyzed (1): 11/22/02 Date Analyzed (2): 11/22/02
Time Analyzed (1): 0440 Time Analyzed (2): 0440
Instrument ID (1): E3 Instrument ID (2): E3
GC Column (1): DB-1701 ID: 0.53(mm) GC Column (2): DB-608 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	B3HLCS	LCS-4344	11/22/02	11/22/02
02	B3HLCSD	LCSD-4344	11/22/02	11/22/02
03	12TB1524	A1627-02C	11/22/02	11/22/02
04	13SSTB3435	A1627-29C	11/22/02	11/22/02
05	13SSTB2413	A1627-30C	11/22/02	11/22/02
06	13SSTB3124	A1627-31C	11/22/02	11/22/02
07	2SSTB4724	A1627-42A	11/22/02	11/22/02
08	2SSTB4802	A1627-43A	11/22/02	11/22/02
09	2SSTB4246	A1627-50A	11/22/02	11/22/02
10	2SSD4A46	A1627-54A	11/22/02	11/22/02
11	2SSD4B46	A1627-55A	11/22/02	11/22/02
12	2SSTB4302	A1627-56A	11/23/02	11/23/02
13	2SSTB4402	A1627-57A	11/23/02	11/23/02
14	2SSTB4524	A1627-58A	11/23/02	11/23/02
15	2SSTB4602	A1627-59A	11/23/02	11/23/02
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

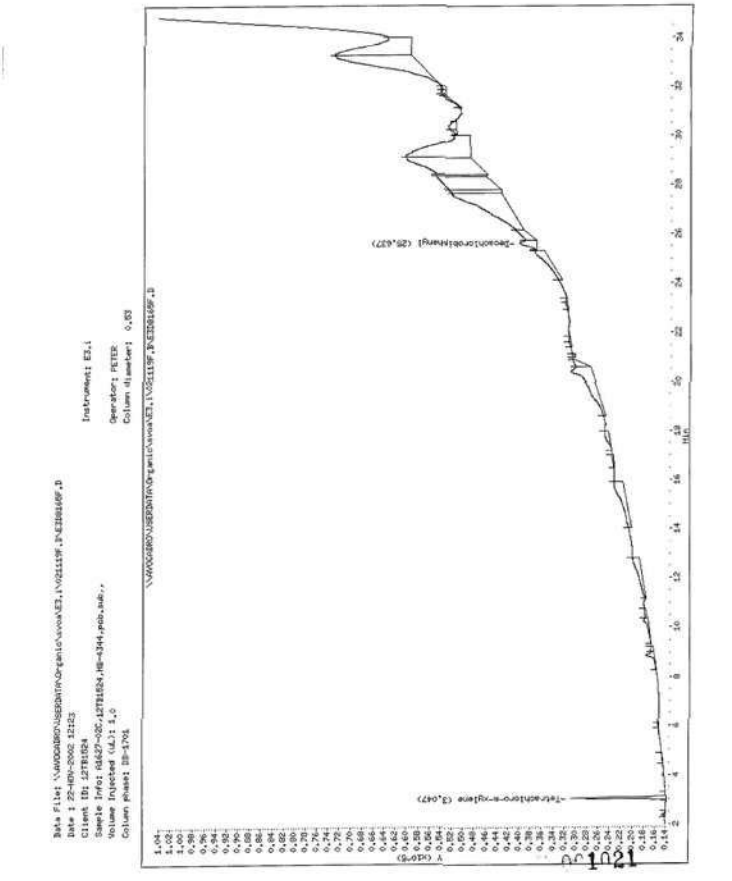
COMMENTS:

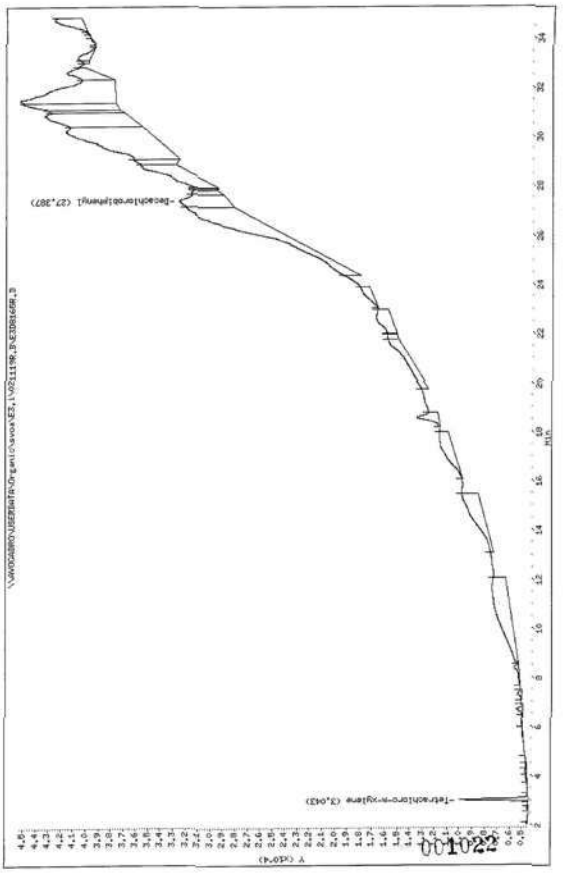
FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
12TB1524

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-02C
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8165F
% Moisture: ____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	*Aroclor-1248*	*3.3*	*U*
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U





Data File: E3D8165F.D
Report Date: 26-Nov-2002 12:27

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119F.B\E3D8165F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119R.B\E3D8165R.D
Inj Date : 22-NOV-2002 12:23
Sample Info: A1627-02C,12TB1524,MB-4344,pcb.sub,,
Misc Info :
Cal Date : 22-NOV-2002 16:05
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	300.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.047	3.043	14829	5453	0.54	0.51		100.00
Decachlorobiphenyl	25.537	27.387	2928	4011	0.21	0.57		100.00

11/26/02

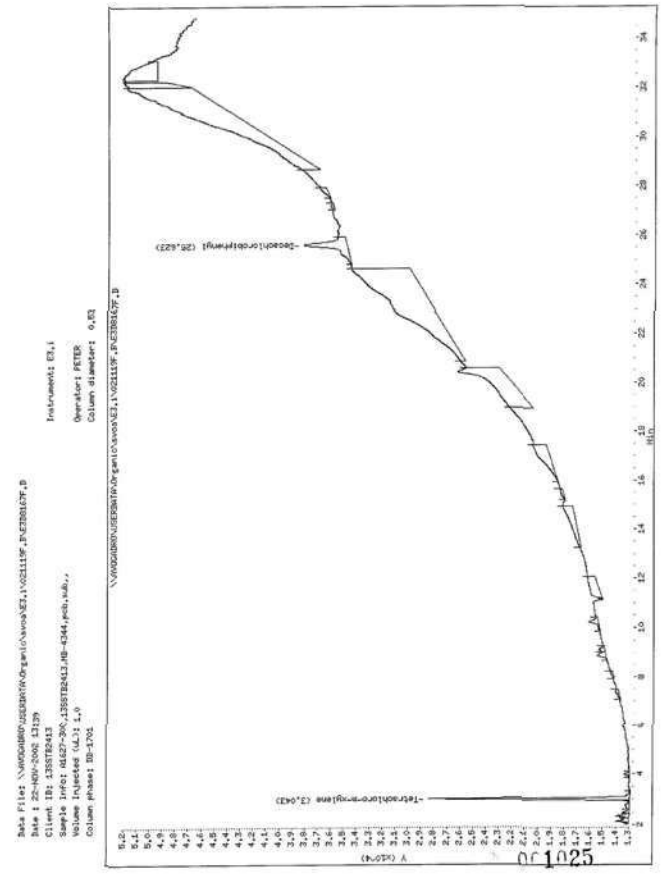
FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

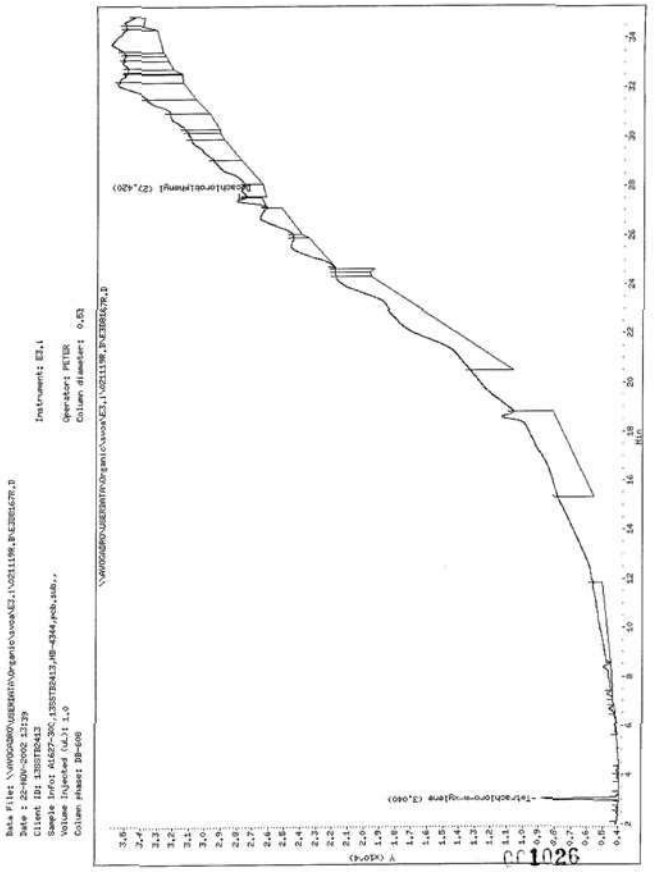
CLIENT SAMPLE NO.
13SSTB2413

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-30C
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8167F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM I PCB





Data File: E3D8167F.D
Report Date: 26-Nov-2002 12:27

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119F.B\E3D8167F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119R.B\E3D8167R.D
Inj Date : 22-NOV-2002 ~~13:39~~
Sample Info: A1627-30C,13SSTB2413,MB-4344,pcb.sub,,
Misc Info :
Cal Date : 22-NOV-2002 16:05
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	300.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.043	3.040	15489	6826	0.49	0.45		100.00
Decachlorobiphenyl	21.623	27.420	3326	1655	0.24	0.28		100.00

11/22/02

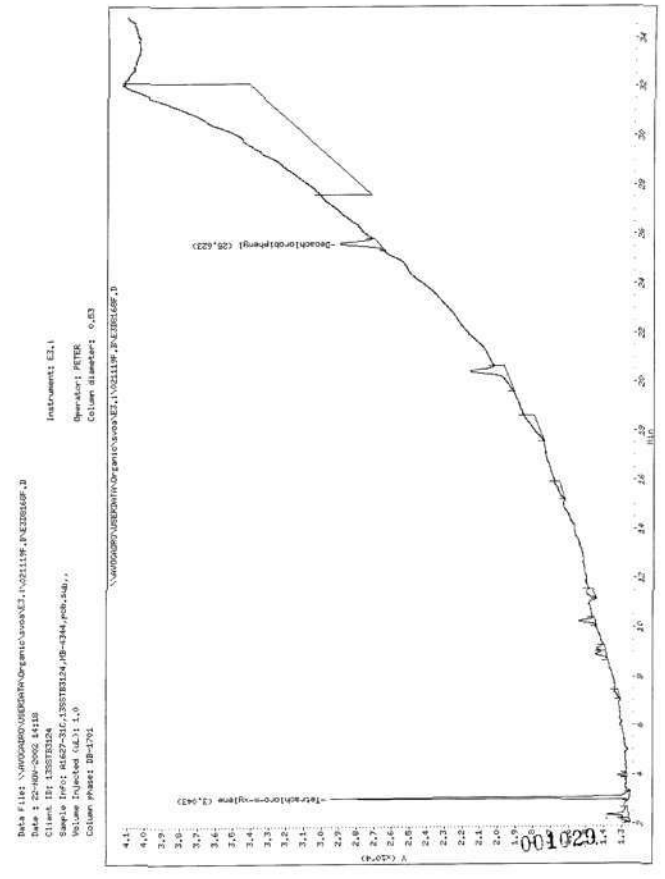
FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

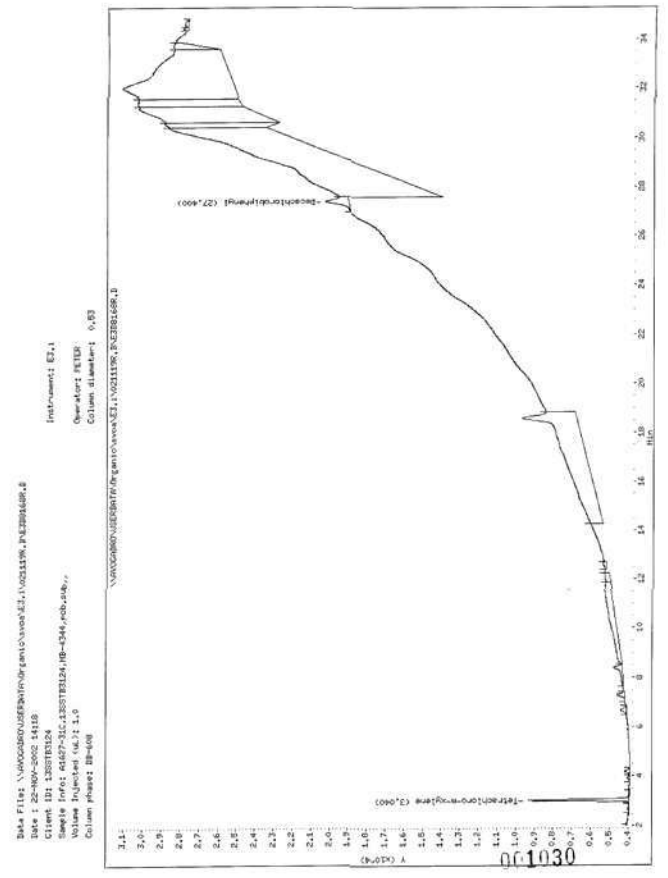
CLIENT SAMPLE NO.
13SSTB3124

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-31C
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8168F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM I PCB





Data File: E3D8168F.D
Report Date: 26-Nov-2002 12:27

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119F.B\E3D8168F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119R.B\E3D8168R.D
Inj Date : 22-NOV-2002 14:18
Sample Info: A1627-31C,13SSTB3124,MB-4344,pcb.sub,,
Misc Info :
Cal Date : 22-NOV-2002 16:05
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	300.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-Xylene	3.043	3.040	18866	5371	0.54	0.50		100.00
Decachlorobiphenyl	25.623	27.400	3210	1225	0.14	0.20		100.00(mBM)

M SZ 11/26/02

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

SZ 11/26/02

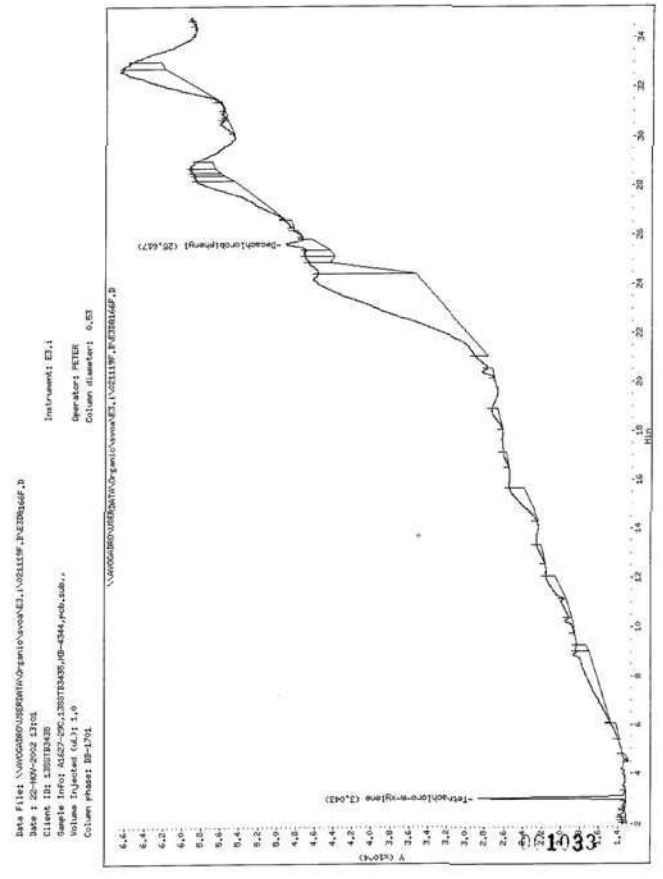
FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

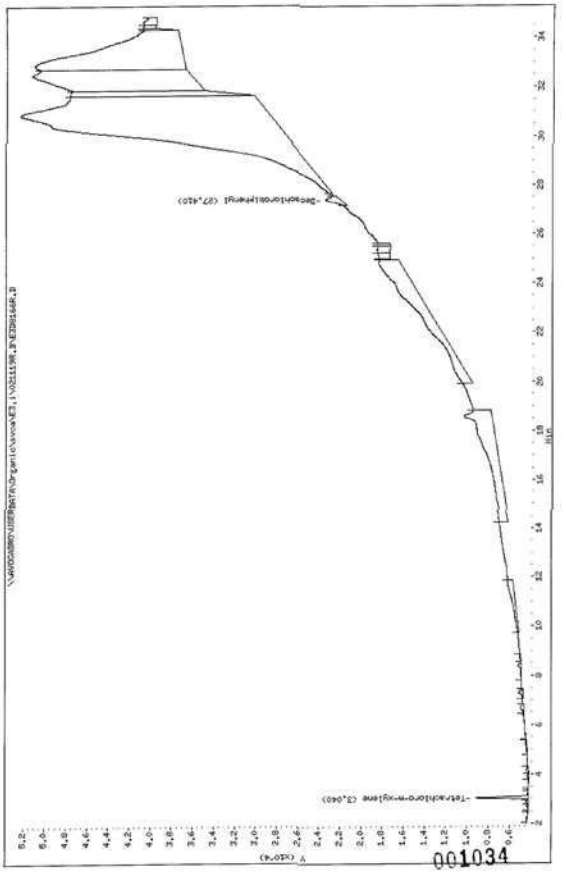
CLIENT SAMPLE NO.
13SSTB3435

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-29C
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8166F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM I PCB





Data File: E3D8166F.D
Report Date: 26-Nov-2002 12:27

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119F.B\E3D8166F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119R.B\E3D8166R.D
Inj Date : 22-NOV-2002 13:01
Sample Info: A1627-29C(13SSTB3435)MB-4344,pcb.sub,,
Misc Info :
Cal Date : 22-NOV-2002 16:05
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	300.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.043	3.040	19499	4911	0.49	0.46		100.00
Decachlorobiphenyl	25.617	27.410	3621	1431	0.26	0.24		100.00

SZ 11/26/02

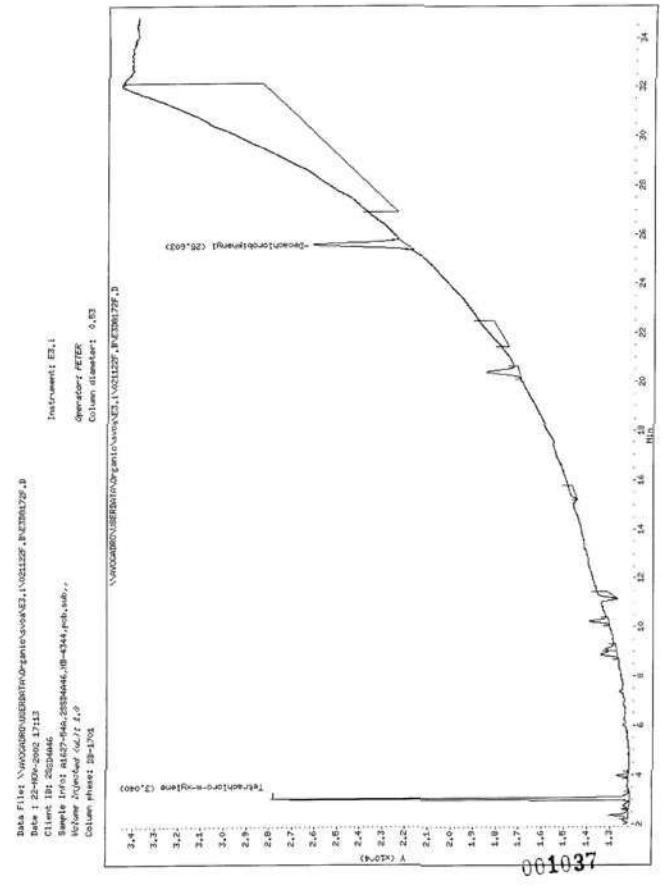
FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

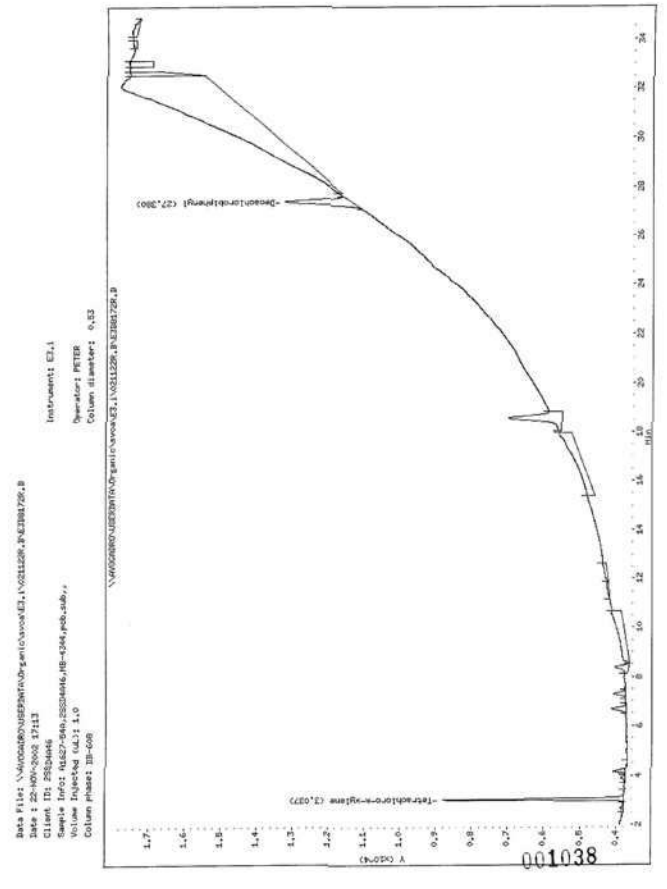
CLIENT SAMPLE NO.
2SSD4A46

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-54A
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8172F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM I PCB





Data File: E3D8172F.D
Report Date: 26-Nov-2002 12:35

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3D8172F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3D8172R.D
Inj Date : 22-NOV-2002 17:13
Sample Info: A1627-54A,2SSD4A46,MB-4344,pcb.sub,,
Misc Info :
Cal Date : 25-NOV-2002 09:32
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	300.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.040	3.037	13781	5025	0.5%	0.47		100.00
Decachlorobiphenyl	25.603	27.365	4083	1873	0.2%	0.31		100.00(M)

SC 11/26/02

QC Flag Legend

M - Compound response manually integrated.

SC 11/26/02

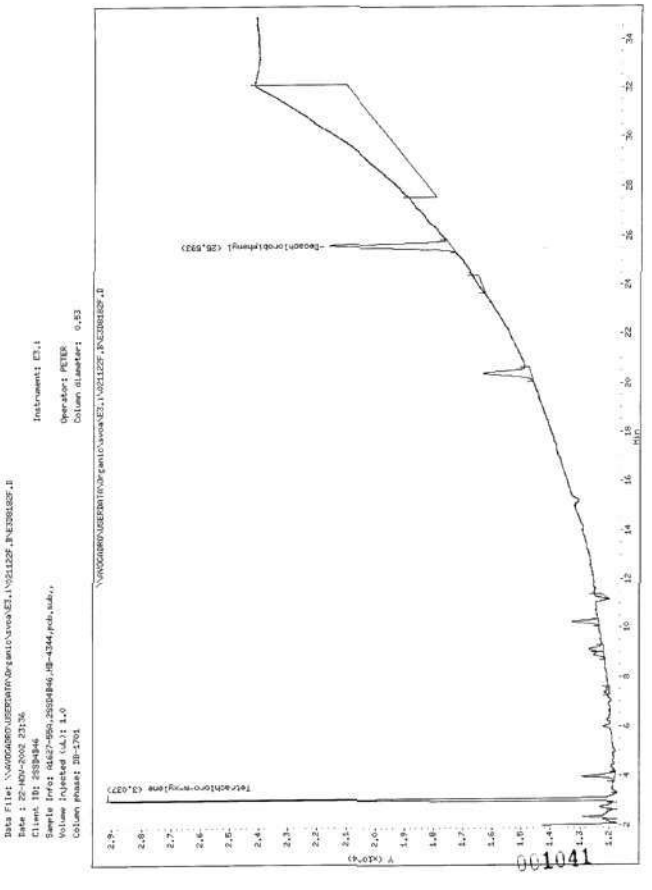
FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

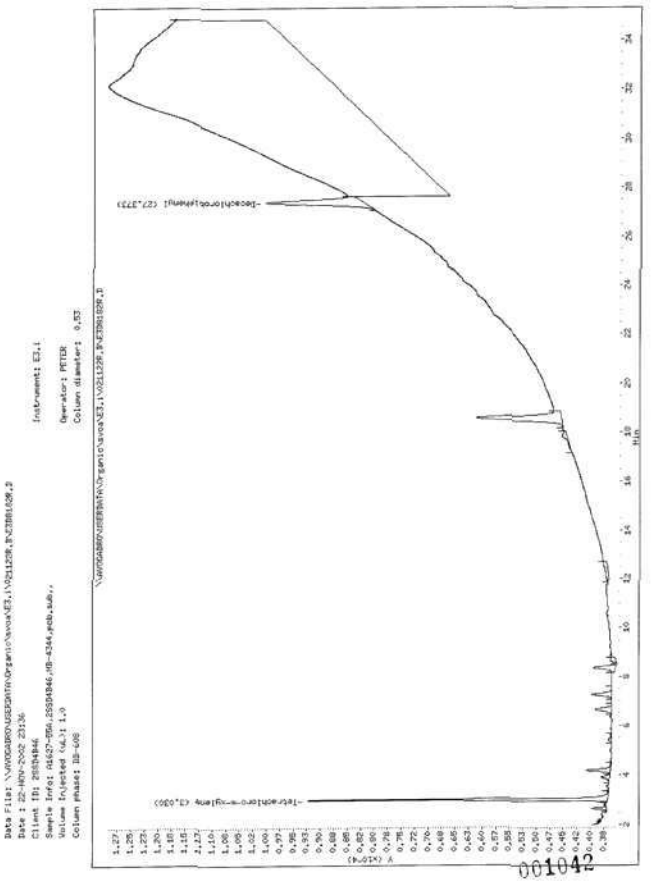
CLIENT SAMPLE NO.
2SSD4B46

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-55A
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8182F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM I PCB





Data File: E3D8182F.D
Report Date: 02-Dec-2002 09:51

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3D8182F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3D8182R.D
Inj Date : 22-NOV-2002 23:36
Sample Info: A1627-55A,2SSD4B46,MB-4344,pcb.sub,,
Misc Info :
Cal Date : 25-NOV-2002 09:32
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	300.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.017	3.030	17477	5532	0.56	0.52		100.00
Decachlorobiphenyl	26.593	27.373	4181	1810	0.30	0.30		100.00(M)

M3 12/02/02

QC Flag Legend

M - Compound response manually integrated.

SZ 12/02/02

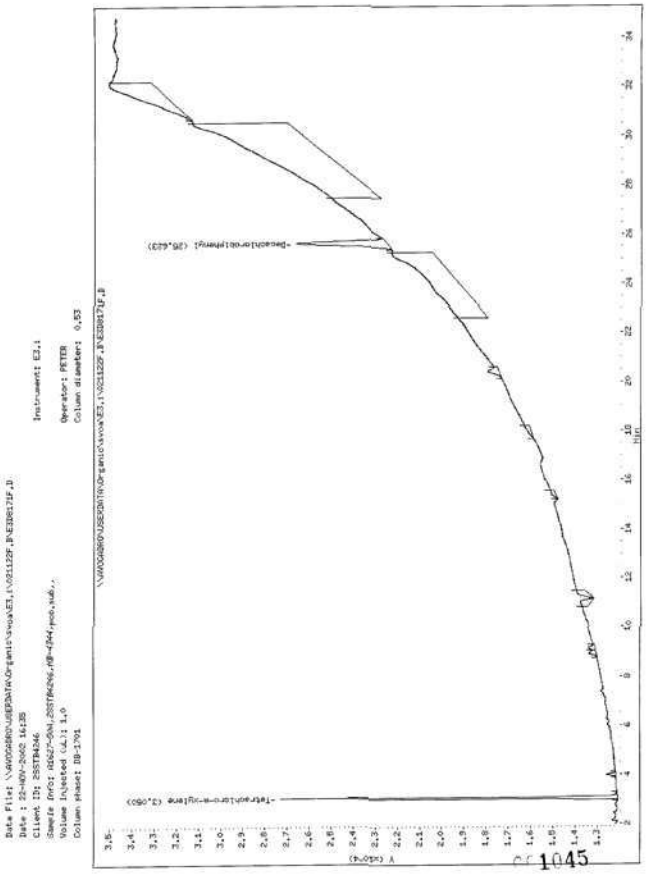
FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

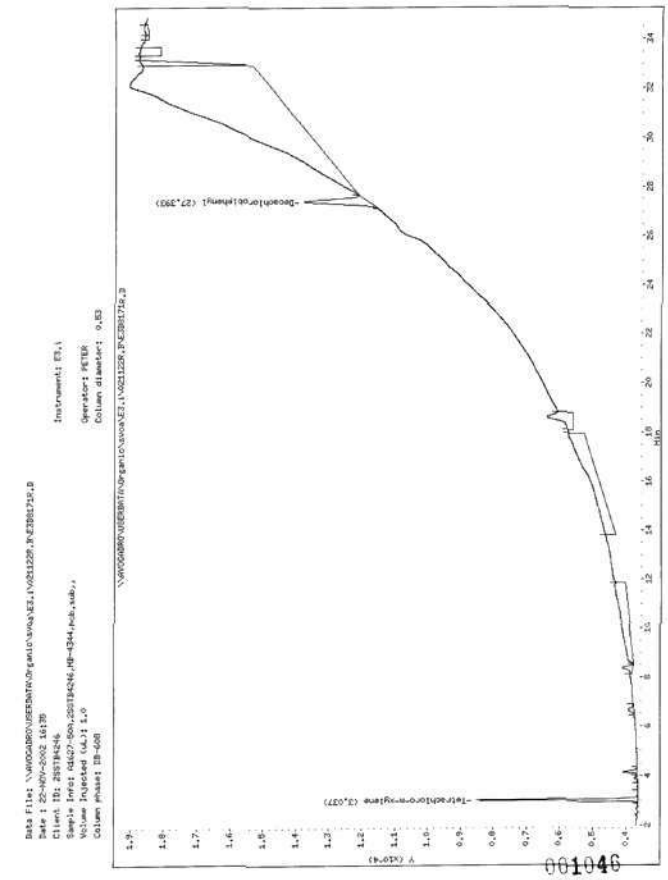
CLIENT SAMPLE NO.
2SSTB4246

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-50A
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8171F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM I PCB





Data File: E3D8171F.D
Report Date: 26-Nov-2002 12:35

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3D8171F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3D8171R.D
Inj Date : 22-NOV-2002 16:35
Sample Info: A1627-50A,2SSTB4246,MB-4344,pcb.sub,,
Misc Info :
Cal Date : 25-NOV-2002 09:32
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	300.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.050	3.037	15218	4880	0.48	0.46		100.00
Decachlorobiphenyl	35.423	27.393	4139	1936	0.28	0.32		100.00(M)

SZ 11/26/02

QC Flag Legend

M - Compound response manually integrated.

SZ 11/26/02

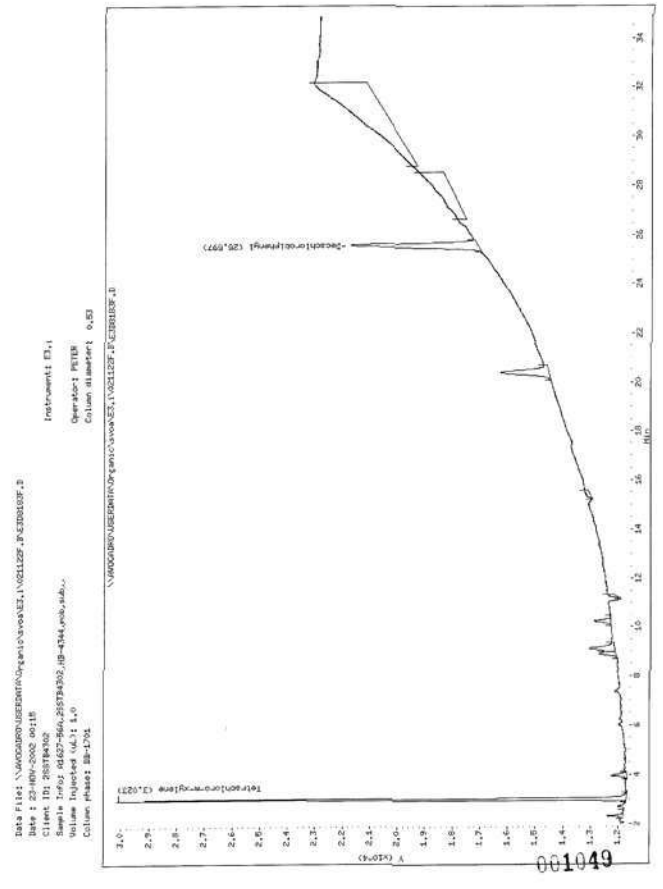
FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

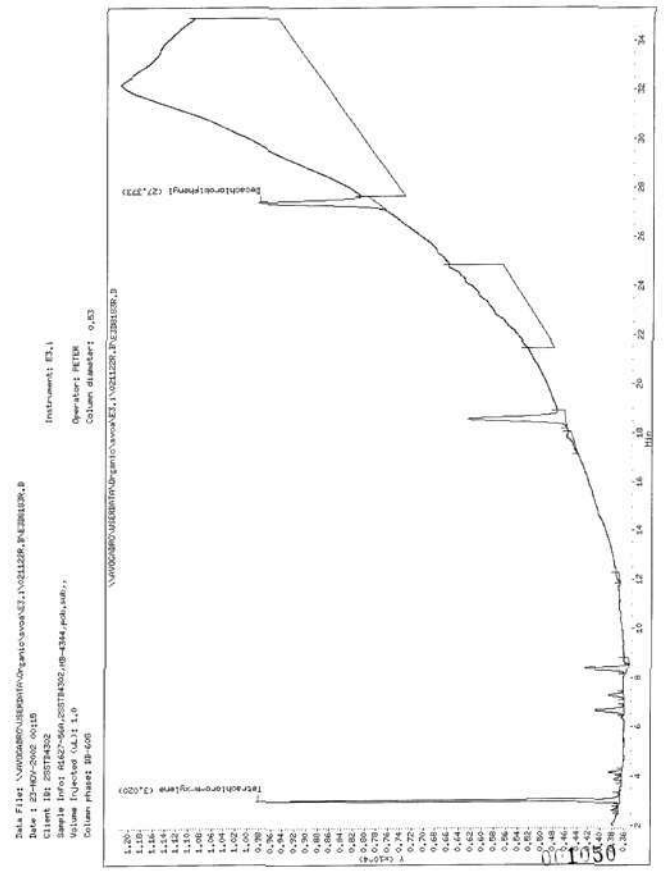
CLIENT SAMPLE NO.
2SSTB4302

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-56A
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8183F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM I PCB





Data File: E3D8183F.D
Report Date: 26-Nov-2002 12:36

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3D8183F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3D8183R.D
Inj Date : 23-NOV-2002 00:15
Sample Info: A1627-56A,2SSTB4302,MB-4344,pcb.sub,,
Misc Info :
Cal Date : 25-NOV-2002 09:32
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DP * Uf * Vt/(Vo * Vi)

Name	Value	Description
DP	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	300.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	2.025	2.020	38442	8164	0.59	0.58		100.00
Decachlorobiphenyl	25.597	27.373	4629	2013	0.53	0.54		100.00(M)

SZ 11/26/02 M3

QC Flag Legend

M - Compound response manually integrated.

SZ 11/26/02

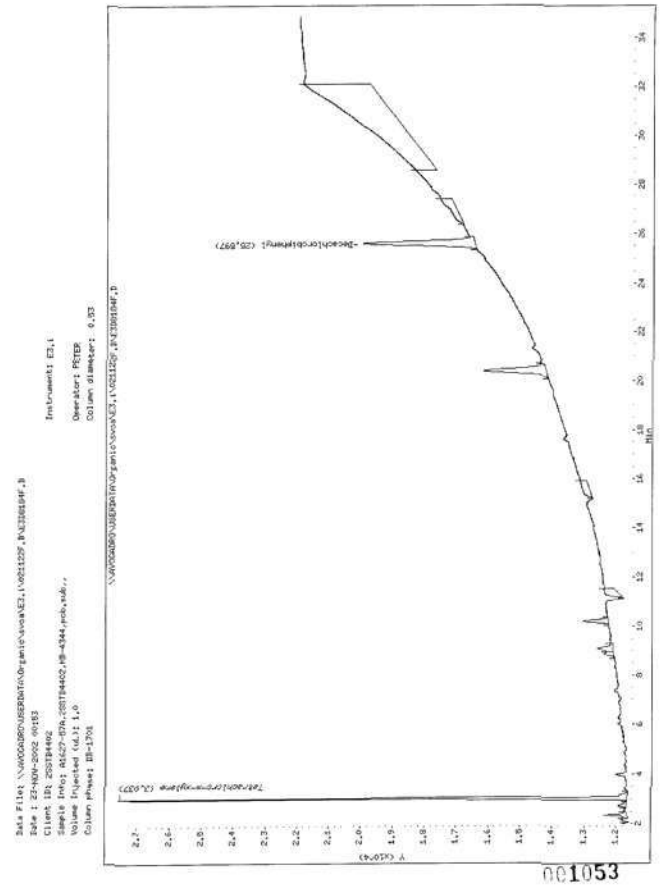
FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

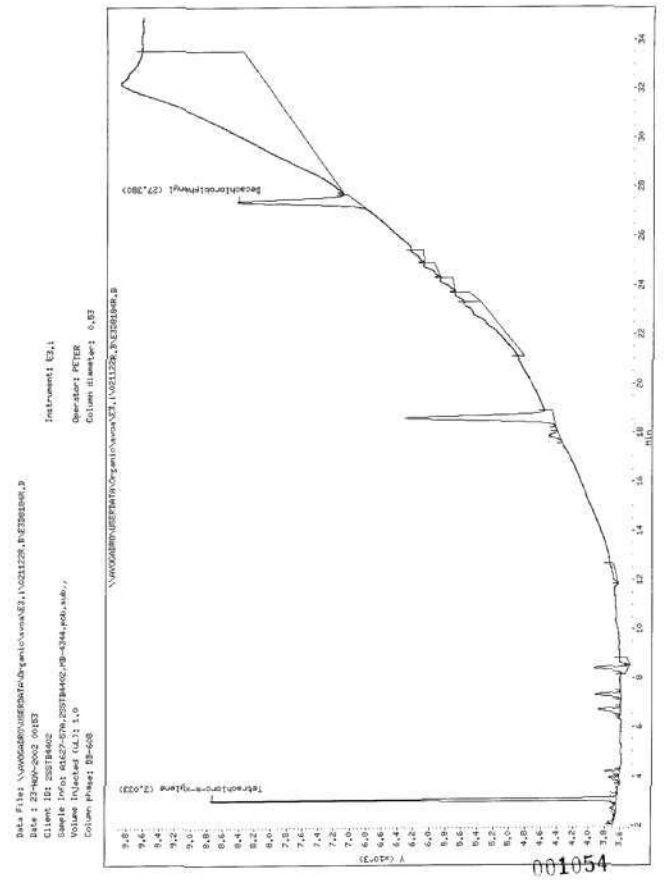
CLIENT SAMPLE NO.
2SSTB4402

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER *Lab Sample ID:* A1627-57A
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8184F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM I PCB





Data File: E3D8184F.D
Report Date: 26-Nov-2002 12:36

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3D8184F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3D8184R.D
Inj Date : 23-NOV-2002 00:53
Sample Info: A1627-57A,2SSTB4402,MB-4344,pcb.sub,,
Misc Info :
Cal Date : 25-NOV-2002 09:32
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	300.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.037	3.033	15817	5105	0.51	0.48		100.00
Decachlorobiphenyl	25.587	27.380	1505	1506	0.25	0.25		100.00(M)

M3 52 11/26/02

QC Flag Legend

M - Compound response manually integrated.

CJ 11/26/02

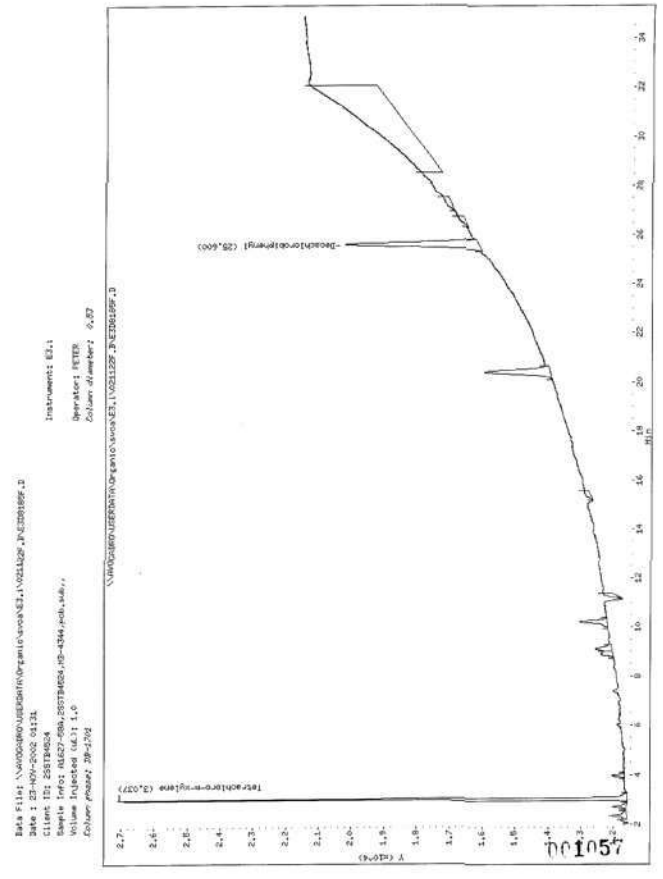
FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

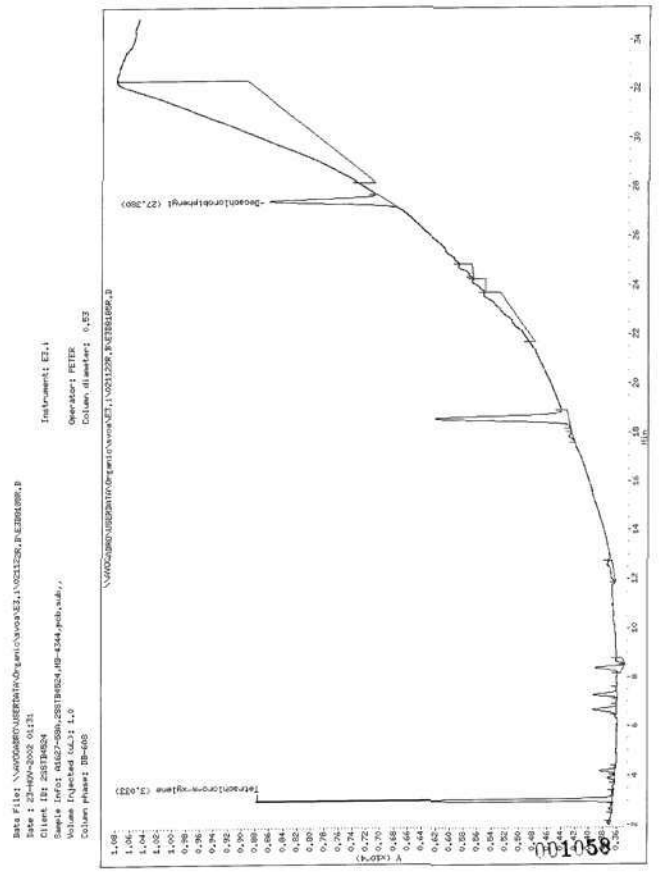
CLIENT SAMPLE NO.
2SSTB4524

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-58A
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8185F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM I PCB





Data File: E3D8185F.D
Report Date: 26-Nov-2002 12:36

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3D8185F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3D8185R.D
Inj Date : 23-NOV-2002 01:31
Sample Info: A1627-58A,2SSTB4524,MB-4344,pcb.sub,,
Misc Info :
Cal Date : 25-NOV-2002 09:32
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	300.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.037	3.033	15502	5134	0.69	0.48		100.00
Decachlorobiphenyl	28.600	27.380	4075	1709	0.29	0.28		100.00(M)

SZ 11/26/02

QC Flag Legend

M - Compound response manually integrated.

SZ 11/26/02

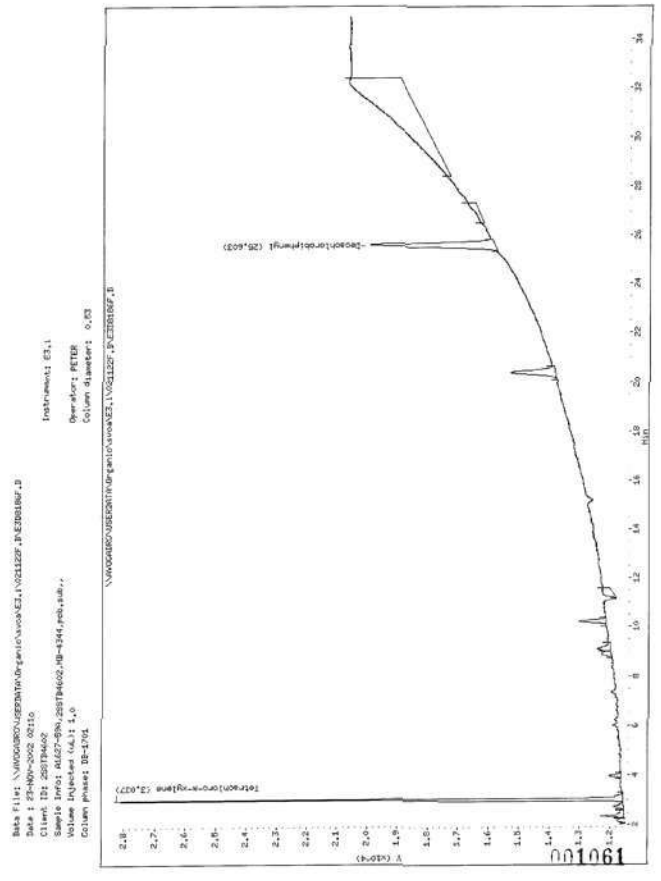
FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

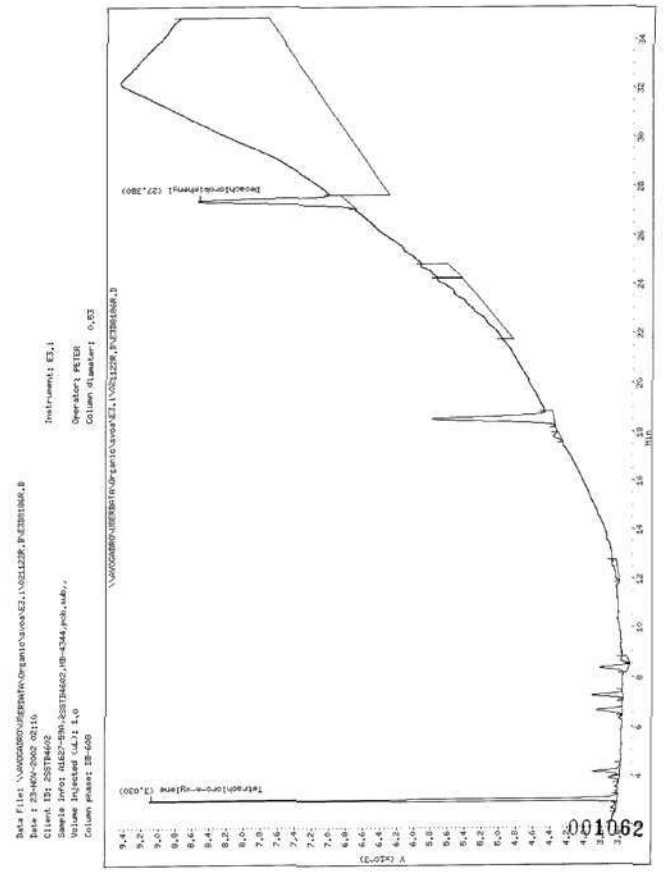
CLIENT SAMPLE NO.
2SSTB4602

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-59A
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8186F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/23/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM I PCB





Data File: E3D8186F.D
Report Date: 26-Nov-2002 12:36

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3D8186F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3D8186R.D
Inj Date : 23-NOV-2002 02:10
Sample Info: A1627-59A(2SSTB4602)MB-4344,pcb.sub,,
Misc Info :
Cal Date : 25-NOV-2002 09:32
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	300.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-Xylene	3.037	3.030	14722	5479	0.53	0.51		100.00
Decachlorobiphenyl	25.603	27.380	4103	1758	0.29	0.29		100.00(M)

M352 11/26/02

QC Flag Legend

M - Compound response manually integrated.

52 11/26/02

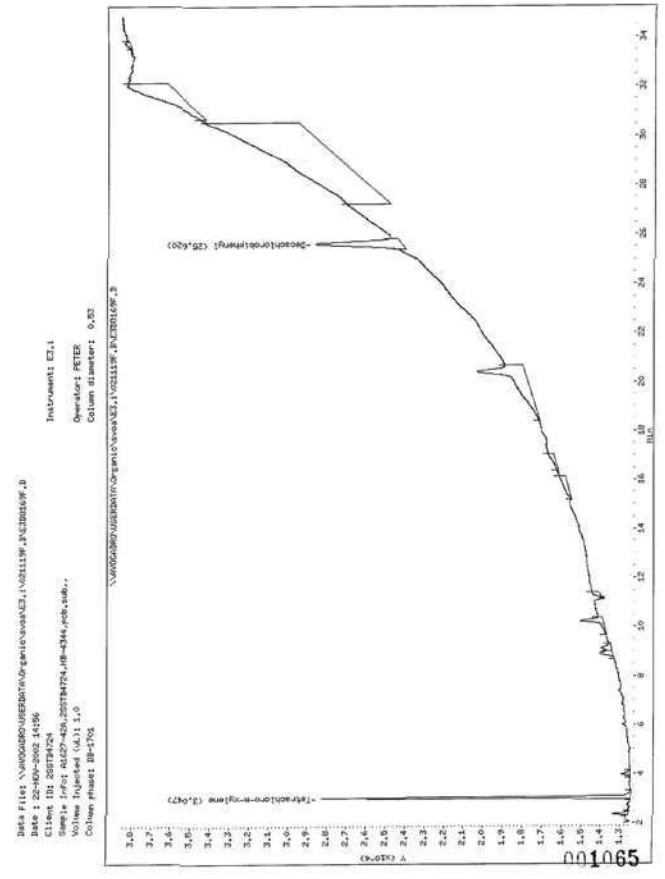
FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

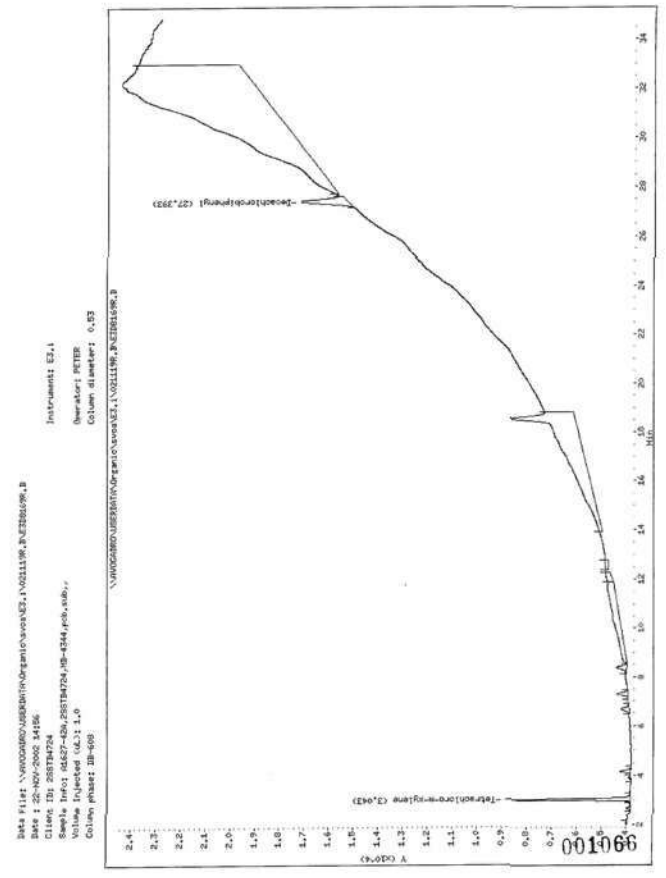
CLIENT SAMPLE NO.
2SSTB4724

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-42A
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8169F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM I PCB





Data File: E3D8169F.D
Report Date: 26-Nov-2002 12:27

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119F.B\E3D8169F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119R.B\E3D8169R.D
Inj Date : 22-NOV-2002 14:56
Sample Info: A1627-42A,2SSTB4724,MB-4344,pcb.sub,,
Misc Info :
Cal Date : 22-NOV-2002 16:05
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	300.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.047	3.043	15782	6993	0.50	0.47		100.00
Decachlorobiphenyl	35.920	27.383	8404	1919	0.31	0.33		100.00(M)

M3SZ 11/20/02

QC Flag Legend

M - Compound response manually integrated.

SZ 11/20/02

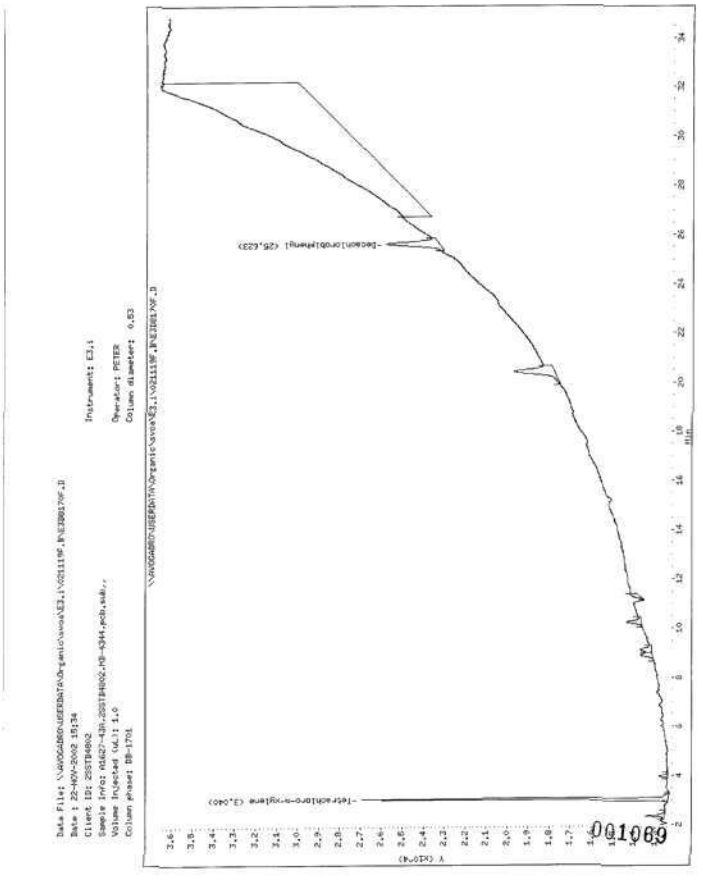
FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

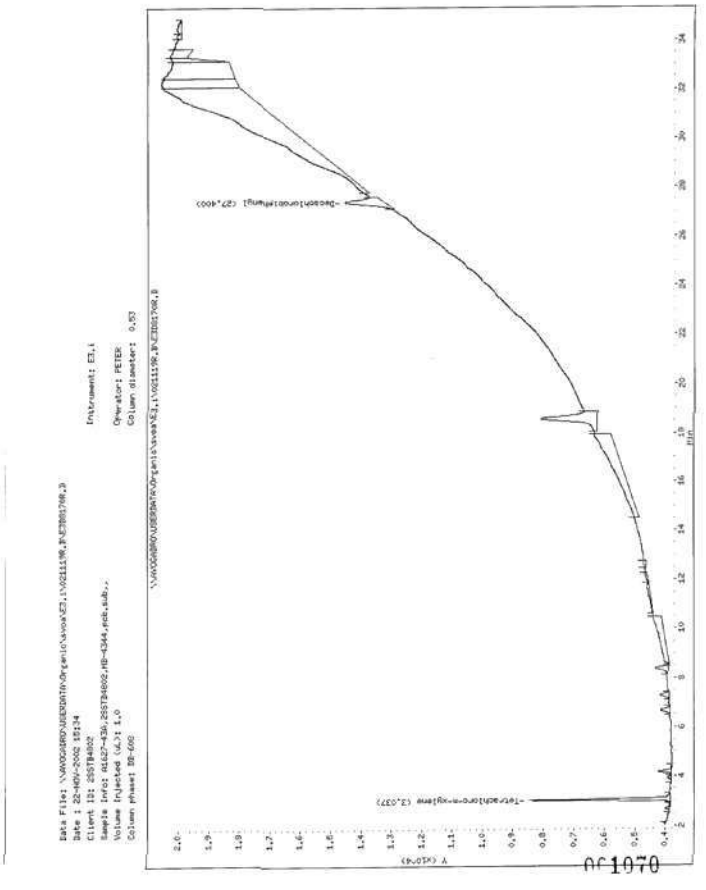
CLIENT SAMPLE NO.
2SSTB4802

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: A1627-43A
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8170F
% Moisture: _____ decanted: (Y/N)___ Date Received: 11/08/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM I PCB





Data File: E3D8170F.D
Report Date: 26-Nov-2002 12:27

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119F.B\E3D8170F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119R.B\E3D8170R.D
Inj Date : 22-NOV-2002 15:34
Sample Info: A1627-43A(2SSTB4802),MB-4344,pcb.sub,,
Misc Info :
Cal Date : 22-NOV-2002 16:05
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	300.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.040	3.037	14568	4605	0.46	0.43		100.00
Decachlorobiphenyl	35.623	27.400	2507	1913	0.18	0.22		100.00(MM)

SZ 11/26/02

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

SZ 11/26/02

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date(s): 11/11/02 11/12/02

Column: DB-1701 ID: 0.53 (mm) Calibration Time(s): 1732 0618

LAB FILE ID: RF0.1: E3D7938F RF0.5: E3D7939F RF1: E3D7940F
RF2.5: E3D7941F RF5: E3D7942F

COMPOUND	RF0.1	RF0.5	RF1	RF2.5	RF5
Aroclor-1016	23910.000	19618.000	17673.000	15136.800	12719.800
(2)	62520.000	48666.000	43120.000	36790.000	31476.800
(3)	29110.000	23134.000	20405.000	17308.800	14552.000
Aroclor-1221	10880.000	9508.000	8377.000	7276.000	6347.400
(2)	7650.000	6656.000	5939.000	5070.400	4375.200
(3)	26830.000	21502.000	18475.000	15096.000	12873.400
Aroclor-1232			16876.000		
(2)			11286.000		
(3)			20743.000		
Aroclor-1242	22190.000	18452.000	15853.000	13594.000	11771.000
(2)	48430.000	39632.000	33938.000	29294.800	25384.000
(3)	24430.000	20778.000	17998.000	16164.400	14168.600
Aroclor-1248	33410.000	26434.000	23972.000	19853.200	17368.800
(2)	36480.000	28086.000	25057.000	20316.800	17492.000
(3)	45510.000	35820.000	32329.000	26820.800	23460.600
Aroclor-1254	35720.000	28546.000	24367.000	20437.200	17934.200
(2)	39680.000	33760.000	29811.000	25179.200	22464.600
(3)	30200.000	27008.000	24253.000	20752.400	18739.400
Aroclor-1260	44900.000	36790.000	31613.000	29161.200	24405.200
(2)	58320.000	52100.000	48866.000	44588.400	40608.400
(3)	36190.000	33090.000	31302.000	28823.200	26098.400
Tetrachloro-m-xylene	1221000.0	1113000.0	1052600.0	963880.00	875490.00
Decachlorobiphenyl	535500.00	495600.00	472900.00	440420.00	399060.00

FORM VI PCB

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date(s): 11/11/02 11/12/02

Column: DB-1701 ID: 0.53 (mm) Calibration Time(s): 1732 0618

COMPOUND	CURVE	COEFFICIENTS A0	COEFFICIENTS A1	%RSD OR R^2
Aroclor-1016	LINR	-0.2920943	8.042e-005	0.990
(2)	LINR	-0.2899771	3.266e-005	0.993
(3)	LINR	-0.3108132	7.06e-005	0.991
Aroclor-1221	LINR	-0.2498648	1.613e-004	0.994
(2)	LINR	-0.2686342	2.342e-004	0.993
(3)	LINR	-0.3378493	8.051e-005	0.991
Aroclor-1232	AVRG		16876.0000	0.0
(2)	AVRG		11286.0000	0.0
(3)	AVRG		20743.0000	0.0
Aroclor-1242	LINR	-0.2804699	8.742e-005	0.994
(2)	LINR	-0.2774325	4.053e-005	0.994
(3)	LINR	-0.2291746	7.211e-005	0.995
Aroclor-1248	LINR	-0.2812100	5.935e-005	0.994
(2)	LINR	-0.3230460	5.92e-005	0.992
(3)	LINR	-0.2823793	4.396e-005	0.994
Aroclor-1254	LINR	-0.2912252	5.769e-005	0.994
(2)	LINR	-0.2508294	4.583e-005	0.996
(3)	LINR	-0.2198128	5.473e-005	0.996
Aroclor-1260	LINR	-0.2567835	4.163e-005	0.991
(2)	LINR	-0.1542424	2.497e-005	0.997
(3)	LINR	-0.1494236	3.877e-005	0.997
Tetrachloro-m-xylene	AVRG		1045194.00	12.7
Decachlorobiphenyl	AVRG		468696.000	11.1

FORM VI PCB

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date(s): 11/11/02 11/12/02

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1732 0618

LAB FILE ID: RF0.1: E3D7938R RF0.5: E3D7939R RF1: E3D7940R
RF2.5: E3D7941R RF5: E3D7942R

COMPOUND	RF0.1	RF0.5	RF1	RF2.5	RF5
Aroclor-1016	6940.000	5886.000	5574.000	4997.200	4474.400
(2)	21520.000	18642.000	17533.000	15987.200	14319.800
(3)	8670.000	7364.000	6985.000	6356.000	5736.600
Aroclor-1221	4230.000	3864.000	3519.000	3212.000	2983.600
(2)	3290.000	2964.000	2675.000	2378.800	2165.200
(3)	10370.000	8780.000	7777.000	6765.200	6070.600
Aroclor-1232			7632.000		
(2)			5328.000		
(3)			8401.000		
Aroclor-1242	6890.000	6034.000	5472.000	5200.000	4794.400
(2)	17590.000	15680.000	14057.000	12991.600	11622.800
(3)	7060.000	6246.000	5620.000	5164.000	4646.600
Aroclor-1248	11630.000	9840.000	9404.000	8361.600	7626.000
(2)	10630.000	8764.000	8308.000	7367.600	6749.000
(3)	11000.000	9288.000	8976.000	8064.000	7447.200
Aroclor-1254	9210.000	8260.000	7775.000	7033.600	6574.200
(2)	15370.000	13180.000	12119.000	10552.400	9808.800
(3)	9650.000	8256.000	7593.000	6398.400	6092.400
Aroclor-1260	13390.000	11368.000	10211.000	9332.800	8258.400
(2)	11070.000	9870.000	9393.000	8948.400	8230.200
(3)	19440.000	17156.000	16483.000	15988.400	14900.200
Tetrachloro-m-xylene	383000.00	365500.00	351900.00	346060.00	334820.00
Decachlorobiphenyl	238500.00	210800.00	197400.00	180760.00	172880.00

FORM VI PCB

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date(s): 11/11/02 11/12/02

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1732 0618

COMPOUND	CURVE	COEFFICIENTS A0	COEFFICIENTS A1	%RSD OR R^2
Aroclor-1016	AVRG		5574.32000	16.8
(2)	AVRG		17600.4000	15.5
(3)	AVRG		7022.32000	15.8
Aroclor-1221	LINR	-0.1438762	3.407e-004	0.998
(2)	LINR	-0.1833372	4.712e-004	0.997
(3)	LINR	-0.2229868	1.689e-004	0.996
Aroclor-1232	AVRG		7632.00000	0.0
(2)	AVRG		5328.00000	0.0
(3)	AVRG		8401.00000	0.0
Aroclor-1242	AVRG		5678.08000	14.3
(2)	AVRG		14388.2800	16.2
(3)	AVRG		5747.32000	16.4
Aroclor-1248	AVRG		9372.32000	16.3
(2)	AVRG		8363.72000	17.8
(3)	AVRG		8955.04000	15.1
Aroclor-1254	AVRG		7770.56000	13.3
(2)	AVRG		12206.0400	18.1
(3)	AVRG		7597.96000	19.0
Aroclor-1260	AVRG		10512.0400	18.8
(2)	AVRG		9502.32000	11.2
(3)	AVRG		16793.5200	10.1
Tetrachloro-m-xylene	AVRG		356256.000	5.2
Decachlorobiphenyl	AVRG		200068.000	13.0

FORM VI PCB

001075

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date(s): 11/11/02 11/12/02

Column: DB-1701 ID: 0.53 (mm) Calibration Time(s): 1732 0618

LAB FILE ID: RT1: E3D7938F RT2: E3D7939F RT3: E3D7940F
RT4: E3D7941F RT5: E3D7942F

COMPOUND	RT1	RT2	RT3	RT4	RT5
Aroclor-1016	7.220	7.230	7.230	7.230	7.230
(2)	6.820	6.820	6.820	6.830	6.820
(3)	7.960	7.960	7.960	7.970	7.960
Aroclor-1221	3.870	3.870	3.870	3.870	3.870
(2)	4.250	4.250	4.250	4.250	4.250
(3)	4.400	4.400	4.400	4.400	4.400
Aroclor-1232			4.400		
(2)			5.420		
(3)			6.810		
Aroclor-1242	7.950	7.950	7.950	7.950	7.950
(2)	6.810	6.810	6.810	6.810	6.810
(3)	10.210	10.220	10.210	10.210	10.210
Aroclor-1248	6.810	6.810	6.810	6.810	6.810
(2)	7.940	7.950	7.950	7.950	7.950
(3)	10.210	10.210	10.210	10.210	10.210
Aroclor-1254	10.190	10.190	10.180	10.180	10.180
(2)	12.620	12.620	12.610	12.610	12.610
(3)	13.710	13.700	13.690	13.690	13.690
Aroclor-1260	14.290	14.290	14.290	14.290	14.290
(2)	18.890	18.880	18.880	18.880	18.880
(3)	20.560	20.560	20.550	20.560	20.550
Tetrachloro-m-xylene	3.030	3.030	3.040	3.040	3.030
Decachlorobiphenyl	25.580	25.580	25.580	25.570	25.570

FORM VI PCB

001076

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date(s): 11/11/02 11/12/02

Column: DB-1701 ID: 0.53 (mm) Calibration Time(s): 1732 0618

COMPOUND	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016	7.228	7.157	7.297
(2)	6.822	6.753	6.893
(3)	7.962	7.893	8.033
Aroclor-1221	3.870	3.797	3.937
(2)	4.250	4.177	4.317
(3)	4.400	4.333	4.473
Aroclor-1232	4.400	4.327	4.467
(2)	5.420	5.353	5.493
(3)	6.810	6.737	6.877
Aroclor-1242	7.950	7.880	8.020
(2)	6.810	6.740	6.880
(3)	10.212	10.140	10.280
Aroclor-1248	6.810	6.743	6.883
(2)	7.948	7.880	8.020
(3)	10.210	10.143	10.283
Aroclor-1254	10.184	10.110	10.250
(2)	12.614	12.540	12.680
(3)	13.696	13.620	13.760
Aroclor-1260	14.290	14.217	14.357
(2)	18.882	18.807	18.947
(3)	20.556	20.480	20.620
Tetrachloro-m-xylene	3.034	2.983	3.083
Decachlorobiphenyl	25.576	25.470	25.670

FORM VI PCB

001077

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date(s): 11/11/02 11/12/02

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1732 0618

LAB FILE ID: RT1: E3D7938R RT2: E3D7939R RT3: E3D7940R
RT4: E3D7941R RT5: E3D7942R

COMPOUND	RT1	RT2	RT3	RT4	RT5
Aroclor-1016	9.220	9.220	9.220	9.220	9.220
(2)	6.950	6.950	6.950	6.960	6.950
(3)	7.490	7.490	7.490	7.500	7.490
Aroclor-1221	4.040	4.040	4.040	4.040	4.040
(2)	4.430	4.430	4.430	4.420	4.420
(3)	4.600	4.600	4.590	4.590	4.590
Aroclor-1232			4.590		
(2)			5.780		
(3)			6.940		
Aroclor-1242	10.410	10.410	10.400	10.400	10.400
(2)	6.940	6.940	6.940	6.940	6.940
(3)	7.480	7.480	7.480	7.480	7.480
Aroclor-1248	6.940	6.940	6.940	6.940	6.940
(2)	10.200	10.200	10.200	10.200	10.200
(3)	10.400	10.410	10.410	10.410	10.410
Aroclor-1254	16.430	16.430	16.420	16.430	16.430
(2)	13.160	13.160	13.150	13.150	13.150
(3)	13.730	13.730	13.720	13.720	13.720
Aroclor-1260	14.440	14.430	14.430	14.430	14.430
(2)	16.430	16.430	16.430	16.430	16.420
(3)	19.150	19.150	19.150	19.150	19.150
Tetrachloro-m-xylene	3.030	3.030	3.030	3.020	3.020
Decachlorobiphenyl	27.360	27.370	27.350	27.360	27.370

FORM VI PCB

001078

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date(s): 11/11/02 11/12/02

Column: DB-608 ID: 0.53 (mm) Calibration Time(s): 1732 0618

COMPOUND	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016	9.220	9.150	9.290
(2)	6.952	6.883	7.023
(3)	7.492	7.423	7.563
Aroclor-1221	4.040	3.967	4.107
(2)	4.426	4.353	4.493
(3)	4.594	4.520	4.660
Aroclor-1232	4.590	4.517	4.657
(2)	5.780	5.713	5.853
(3)	6.940	6.867	7.007
Aroclor-1242	10.404	10.333	10.473
(2)	6.940	6.870	7.010
(3)	7.480	7.410	7.550
Aroclor-1248	6.940	6.873	7.013
(2)	10.200	10.133	10.273
(3)	10.408	10.340	10.480
Aroclor-1254	16.428	16.357	16.497
(2)	13.154	13.080	13.220
(3)	13.724	13.647	13.787
Aroclor-1260	14.432	14.363	14.503
(2)	16.428	16.353	16.493
(3)	19.150	19.077	19.217
Tetrachloro-m-xylene	3.026	2.973	3.073
Decachlorobiphenyl	27.362	27.267	27.467

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date: 11/21/02 Time: 2255

Lab File ID: E3D8144F Init. Calib. Date(s): 11/12/02 11/12/02

Init. Calib. Times: 0345 0618

GC Column: DB-1701 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	CAL1 AMOUNT	CURVE	%D	MAX %d
Aroclor-1016	1.1	1.0	LINR	10.0	15.0
(2)	1.1	1.0	LINR	10.0	15.0
(3)	1.1	1.0	LINR	10.0	15.0
Aroclor-1260	1.1	1.0	LINR	10.0	15.0
(2)	1.1	1.0	LINR	10.0	15.0
(3)	1.1	1.0	LINR	10.0	15.0
Tetrachloro-m-xylene	0.017	0.020	AVRG	15.0	15.0
Decachlorobiphenyl	0.021	0.020	AVRG	5.0	15.0

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date: 11/21/02 Time: 2255

Lab File ID: E3D8144R Init. Calib. Date(s): 11/12/02 11/12/02

Init. Calib. Times: 0345 0618

GC Column: DB-608 ID: 0.53 (mm)

COMPOUND	RRF	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	5574.320	5218.000	0.01	6.4	15.0
(2)	17600.400	16483.000	0.01	6.3	15.0
(3)	7022.320	6525.000	0.01	7.1	15.0
Aroclor-1260	10512.040	9968.000	0.01	5.2	15.0
(2)	9502.320	8961.000	0.01	5.7	15.0
(3)	16793.520	16072.000	0.01	4.3	15.0
Tetrachloro-m-xylene	356256.00	318750.00	0.01	10.5	15.0
Decachlorobiphenyl	200068.00	212300.00	0.01	6.1	15.0

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date: 11/22/02 Time: 0911

Lab File ID: E3D8160F Init. Calib. Date(s): 11/12/02 11/12/02

Init. Calib. Times: 0345 0618

GC Column: DB-1701 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	CAL1 AMOUNT	CURVE	%D	MAX %d
Aroclor-1016	1.1	1.0	LINR	10.0	15.0
(2)	1.1	1.0	LINR	10.0	15.0
(3)	1.1	1.0	LINR	10.0	15.0
Aroclor-1260	1.0	1.0	LINR	0.0	15.0
(2)	1.0	1.0	LINR	0.0	15.0
(3)	1.0	1.0	LINR	0.0	15.0
Tetrachloro-m-xylene	0.018	0.020	AVRG	10.0	15.0
Decachlorobiphenyl	0.017	0.020	AVRG	15.0	15.0

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date: 11/22/02 Time: 0911

Lab File ID: E3D8160R Init. Calib. Date(s): 11/12/02 11/12/02

Init. Calib. Times: 0345 0618

GC Column: DB-608 ID: 0.53 (mm)

COMPOUND	RRF	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	5574.320	5055.000	0.01	9.3	15.0
(2)	17600.400	16336.000	0.01	7.2	15.0
(3)	7022.320	6435.000	0.01	8.4	15.0
Aroclor-1260	10512.040	9597.000	0.01	8.7	15.0
(2)	9502.320	8564.000	0.01	9.9	15.0
(3)	16793.520	15259.000	0.01	9.1	15.0
Tetrachloro-m-xylene	356256.00	311600.00	0.01	12.5	15.0
Decachlorobiphenyl	200068.00	195400.00	0.01	2.3	15.0

FORM VII PCB

001083

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date: 11/22/02 Time: 2025

Lab File ID: E3D8177F Init. Calib. Date(s): 11/12/02 11/12/02

Init. Calib. Times: 0345 0618

GC Column: DB-1701 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	CAL1 AMOUNT	CURVE	%D	MAX %d	
Aroclor-1016	1.2	1.0	LINR	20.0	15.0	<-
(2)	1.2	1.0	LINR	20.0	15.0	<-
(3)	1.2	1.0	LINR	20.0	15.0	<-
Aroclor-1260	1.0	1.0	LINR	0.0	15.0	
(2)	1.0	1.0	LINR	0.0	15.0	
(3)	1.0	1.0	LINR	0.0	15.0	
Tetrachloro-m-xylene	0.019	0.020	AVRG	5.0	15.0	
Decachlorobiphenyl	0.017	0.020	AVRG	15.0	15.0	

FORM VII PCB

001084

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date: 11/22/02 Time: 2025

Lab File ID: E3D8177R Init. Calib. Date(s): 11/12/02 11/12/02

Init. Calib. Times: 0345 0618

GC Column: DB-608 ID: 0.53 (mm)

COMPOUND	RRF	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	5574.320	5063.000	0.01	9.2	15.0
(2)	*17600.400*	*16574.000*	*0.01*	*5.8*	15.0
(3)	7022.320	6458.000	0.01	8.0	15.0
Aroclor-1260	10512.040	9449.000	0.01	10.1	15.0
(2)	9502.320	8246.000	0.01	13.2	15.0
(3)	16793.520	14651.000	0.01	12.8	15.0
Tetrachloro-m-xylene	356256.00	326500.00	0.01	8.4	15.0
Decachlorobiphenyl	200068.00	174750.00	0.01	12.6	15.0

FORM VII PCB

001085

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 Calibration Date: 11/23/02 Time: 0559

Lab File ID: E3D8192F Init. Calib. Date(s): 11/12/02 11/12/02

Init. Calib. Times: 0345 0618

GC Column: DB-1701 ID: 0.53 (mm)

COMPOUND	SAMPLE AMOUNT	CAL1 AMOUNT	CURVE	%D	MAX %d
Aroclor-1016	1.1	1.0	LINR	10.0	15.0
(2)	1.1	1.0	LINR	10.0	15.0
(3)	1.1	1.0	LINR	10.0	15.0
Aroclor-1260	1.1	1.0	LINR	10.0	15.0
(2)	1.1	1.0	LINR	10.0	15.0
(3)	1.1	1.0	LINR	10.0	15.0
Tetrachloro-m-xylene	0.018	0.020	AVRG	10.0	15.0
Decachlorobiphenyl	0.019	0.020	AVRG	5.0	15.0

FORM VII PCB

001086

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID: E3 *Calibration Date: 11/23/02* Time: 0559

Lab File ID: E3D8192R Init. Calib. Date(s): 11/12/02 11/12/02

Init. Calib. Times: 0345 0618

GC Column: DB-608 ID: 0.53 (mm)

COMPOUND	RRF	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	5574.320	5132.000	0.01	7.9	15.0
(2)	17600.400	16496.000	0.01	6.3	15.0
(3)	7022.320	6479.000	0.01	7.7	15.0
Aroclor-1260	10512.040	9833.000	0.01	6.4	15.0
(2)	9502.320	8777.000	0.01	7.6	15.0
(3)	16793.520	15478.000	0.01	7.8	15.0
Tetrachloro-m-xylene	356256.00	320750.00	0.01	10.0	15.0
Decachlorobiphenyl	200068.00	197250.00	0.01	1.4	15.0

FORM VII PCB

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

GC Column: DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 11/11/02 11/12/02

Instrument ID: E3

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.03 DCB: 25.57

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR1232AL3	AR1232AL3	11/11/02	1732	3.03	25.55
02	AR1242AL1	AR1242AL1	11/11/02	1810	3.03	25.56
03	AR1242AL2	AR1242AL2	11/11/02	1849	3.03	25.56
04	AR1242AL3	AR1242AL3	11/11/02	1927	3.03	25.55
05	AR1242AL4	AR1242AL4	11/11/02	2005	3.03	25.55
06	AR1242AL5	AR1242AL5	11/11/02	2043	3.03	25.55
07	AR1248AL1	AR1248AL1	11/11/02	2122	3.02	25.56
08	AR1248AL2	AR1248AL2	11/11/02	2200	3.03	25.57
09	AR1248AL3	AR1248AL3	11/11/02	2238	3.03	25.56
10	AR1248AL4	AR1248AL4	11/11/02	2317	3.03	25.57
11	AR1248AL5	AR1248AL5	11/11/02	2355	3.03	25.57
12	AR2154AL1	AR2154AL1	11/12/02	0033	3.03	25.58
13	AR2154AL2	AR2154AL2	11/12/02	0112	3.03	25.58
14	AR2154AL3	AR2154AL3	11/12/02	0150	3.03	25.57
15	AR2154AL4	AR2154AL4	11/12/02	0228	3.03	25.58
16	AR2154AL5	AR2154AL5	11/12/02	0307	3.03	25.58
17	AR1660AL1	AR1660AL1	11/12/02	0345	3.03	25.58
18	AR1660AL2	AR1660AL2	11/12/02	0423	3.03	25.58
19	AR1660AL3	AR1660AL3	11/12/02	0501	3.04	25.58
20	AR1660AL4	AR1660AL4	11/12/02	0540	3.04	25.57
21	AR1660AL5	AR1660AL5	11/12/02	0618	3.03	25.57
22	AR1660AG	AR1660AG	11/21/02	2255	3.04	25.60
23	BBLK3H	MB-4344	11/22/02	0440	3.04	25.60
24	B3HLCS	LCS-4344	11/22/02	0518	3.04	25.60
25	B3HLCSD	LCSD-4344	11/22/02	0556	3.03	25.60
26	AR1660AH	AR1660AH	11/22/02	0911	3.04	25.61
27	12TB1524	A1627-02C	11/22/02	1223	3.05	25.64
28	13SSTB3435	A1627-29C	11/22/02	1301	3.04	25.62
29	13SSTB2413	A1627-30C	11/22/02	1339	3.04	25.62
30	13SSTB3124	A1627-31C	11/22/02	1418	3.04	25.62
31	2SSTB4724	A1627-42A	11/22/02	1456	3.05	25.62
32	2SSTB4802	A1627-43A	11/22/02	1534	3.04	25.62

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PCB

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

GC Column: DB-1701 ID: 0.53 (mm) Init. Calib. Date(s): 11/11/02 11/12/02

Instrument ID: E3

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.03 DCB: 25.57

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	2SSTB4246	A1627-50A	11/22/02	1635	3.05	25.62
02	2SSD4A46	A1627-54A	11/22/02	1713	3.04	25.60
03	AR1660AI	AR1660AI	11/22/02	2025	3.03	25.60
04	2SSD4B46	A1627-55A	11/22/02	2336	3.04	25.59
05	2SSTB4302	A1627-56A	11/23/02	0015	3.02	25.60
06	2SSTB4402	A1627-57A	11/23/02	0053	3.04	25.60
07	2SSTB4524	A1627-58A	11/23/02	0131	3.04	25.60
08	2SSTB4602	A1627-59A	11/23/02	0210	3.04	25.60
09	AR1660AJ	AR1660AJ	11/23/02	0559	3.04	25.59
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PCB

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

GC Column: DB-608 ID: 0.53 (mm) Init. Calib. Date(s): 11/11/02 11/12/02

Instrument ID: E3

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.02 DCB: 27.37

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR1232AL3	AR1232AL3	11/11/02	1732	3.02	27.33
02	AR1242AL1	AR1242AL1	11/11/02	1810	3.03	27.34
03	AR1242AL2	AR1242AL2	11/11/02	1849	3.03	27.34
04	AR1242AL3	AR1242AL3	11/11/02	1927	3.02	27.33
05	AR1242AL4	AR1242AL4	11/11/02	2005	3.02	27.34
06	AR1242AL5	AR1242AL5	11/11/02	2043	3.02	27.34
07	AR1248AL1	AR1248AL1	11/11/02	2122	3.02	27.34
08	AR1248AL2	AR1248AL2	11/11/02	2200	3.02	27.34
09	AR1248AL3	AR1248AL3	11/11/02	2238	3.02	27.35
10	AR1248AL4	AR1248AL4	11/11/02	2317	3.02	27.35
11	AR1248AL5	AR1248AL5	11/11/02	2355	3.02	27.35
12	AR2154AL1	AR2154AL1	11/12/02	0033	3.03	27.36
13	AR2154AL2	AR2154AL2	11/12/02	0112	3.03	27.37
14	AR2154AL3	AR2154AL3	11/12/02	0150	3.03	27.35
15	AR2154AL4	AR2154AL4	11/12/02	0228	3.02	27.36
16	AR2154AL5	AR2154AL5	11/12/02	0307	3.02	27.37
17	AR1660AL1	AR1660AL1	11/12/02	0345	3.03	27.37
18	AR1660AL2	AR1660AL2	11/12/02	0423	3.03	27.36
19	AR1660AL3	AR1660AL3	11/12/02	0501	3.03	27.36
20	AR1660AL4	AR1660AL4	11/12/02	0540	3.03	27.36
21	AR1660AL5	AR1660AL5	11/12/02	0618	3.03	27.36
22	AR1660AG	AR1660AG	11/21/02	2255	3.03	27.37
23	BBLK3H	MB-4344	11/22/02	0440	3.03	27.38
24	B3HLCS	LCS-4344	11/22/02	0518	3.03	27.38
25	B3HLCSD	LCSD-4344	11/22/02	0556	3.03	27.38
26	AR1660AH	AR1660AH	11/22/02	0911	3.04	27.38
27	12TB1524	A1627-02C	11/22/02	1223	3.04	27.39
28	13SSTB3435	A1627-29C	11/22/02	1301	3.04	27.41
29	13SSTB2413	A1627-30C	11/22/02	1339	3.04	27.42
30	13SSTB3124	A1627-31C	11/22/02	1418	3.04	27.40
31	2SSTB4724	A1627-42A	11/22/02	1456	3.04	27.39
32	2SSTB4802	A1627-43A	11/22/02	1534	3.04	27.40

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PCB

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

GC Column: DB-608 ID: 0.53 (mm) Init. Calib. Date(s): 11/11/02 11/12/02

Instrument ID: E3

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 3.02 DCB: 27.37

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	2SSTB4246	A1627-50A	11/22/02	1635	3.04	27.39
02	2SSD4A46	A1627-54A	11/22/02	1713	3.04	27.38
03	AR1660AI	AR1660AI	11/22/02	2025	3.03	27.37
04	2SSD4B46	A1627-55A	11/22/02	2336	3.03	27.37
05	2SSTB4302	A1627-56A	11/23/02	0015	3.02	27.37
06	2SSTB4402	A1627-57A	11/23/02	0053	3.03	27.38
07	2SSTB4524	A1627-58A	11/23/02	0131	3.03	27.38
08	2SSTB4602	A1627-59A	11/23/02	0210	3.03	27.38
09	AR1660AJ	AR1660AJ	11/23/02	0559	3.03	27.36
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 10
PCB IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.
B3HLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Lab Sample ID: LCS-4344 Date(s) Analyzed: 11/22/02 11/22/02

Instrument ID (1): E3 Instrument ID (2): E3

GC Column(1): DB-1701 ID: 0.53(mm) GC Column(2): DB-608 ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	7.23	7.16	7.30	36		
Aroclor-1016	2	6.83	6.75	6.89	36		
	3	7.97	7.89	8.03	36		
COLUMN 1	4						
	5					36	
	1	9.23	9.15	9.29	29		
	2	6.96	6.88	7.02	30		
	3	7.50	7.42	7.56	29		
COLUMN 2	4						
	5					29	21.5
	1	14.29	14.22	14.36	33		
Aroclor-1260	2	18.89	18.81	18.95	30		
	3	20.57	20.48	20.62	30		
COLUMN 1	4						
	5					31	
	1	14.44	14.36	14.50	29		
	2	16.44	16.35	16.49	28		
	3	19.16	19.08	19.22	28		
COLUMN 2	4						
	5					28	10.2
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes.

FORM 10
PCB IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.
B3HLCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

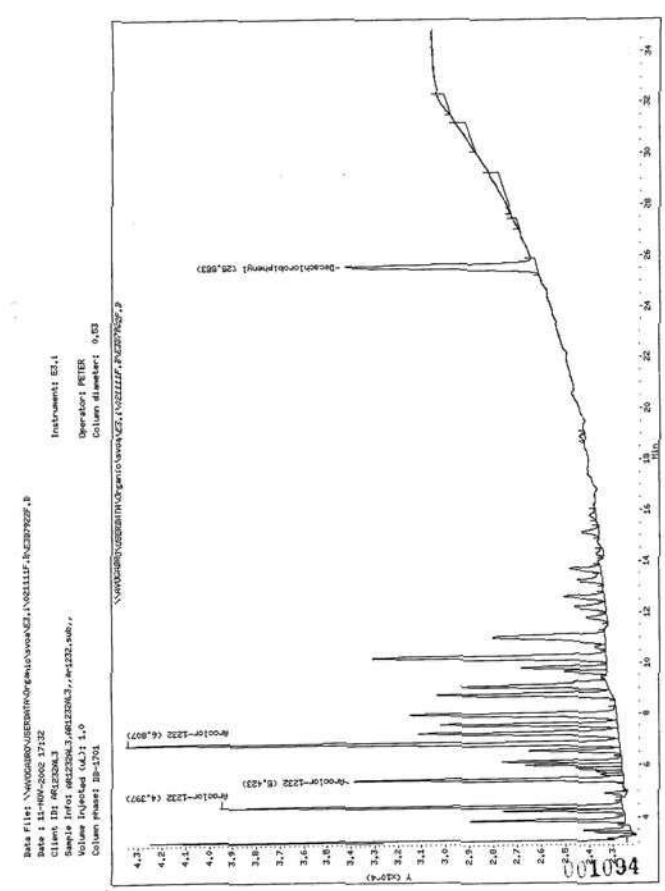
Lab Sample ID: LCSD-4344 Date(s) Analyzed: 11/22/02 11/22/02

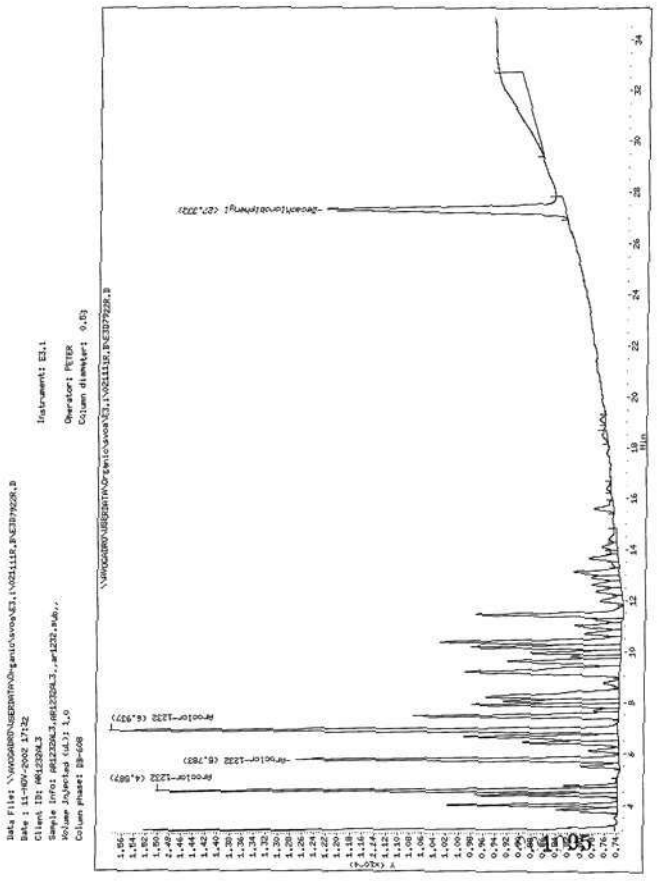
Instrument ID (1): E3 Instrument ID (2): E3

GC Column(1): DB-1701 ID: 0.53(mm) GC Column(2): DB-608 ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	7.23	7.16	7.30	35		
Aroclor-1016	2	6.82	6.75	6.89	36		
	3	7.96	7.89	8.03	35		
COLUMN 1	4						
	5					35	
	1	9.23	9.15	9.29	29		
	2	6.96	6.88	7.02	29		
	3	7.50	7.42	7.56	29		
COLUMN 2	4						
	5					29	18.8
	1	14.30	14.22	14.36	31		
Aroclor-1260	2	18.90	18.81	18.95	29		
	3	20.57	20.48	20.62	28		
COLUMN 1	4						
	5					30	
	1	14.45	14.36	14.50	28		
	2	16.44	16.35	16.49	27		
	3	19.17	19.08	19.22	27		
COLUMN 2	4						
	5					27	10.5
	2						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes.





Data File: E3D7922F.D
Report Date: 12-Nov-2002 16:17

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7922F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7922R.D
Inj Date : 11-NOV-2002 17:32
Sample Info: *AR1232AL3,AR1232AL3,,ar1232.sub,,*
Misc Info :
Cal Date : 12-NOV-2002 15:06
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1232.sub
Sub List #2 : ar1232.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

*Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)*

Name	Value	Description
DF	*1.000*	*Dilution Factor*
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	*1.000*	*Volume injected (uL)*

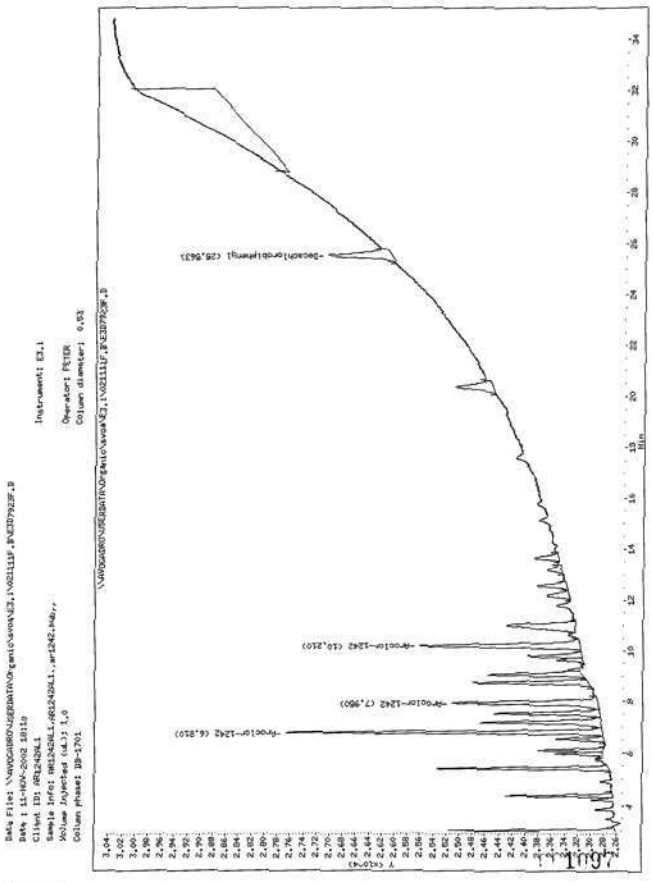
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.027	3.023	20043	7801	0.019	0.022		105.00(a)
Aroclor-1232	4.597	4.587	16878	7631	1.0	1.0	80.00- 120.00	106.00
	5.423	5.783	11286	5328	1.0	1.0	46.88- 86.88	66.88
	6.807	6.797	10743	8401	1.0	1.0	102.91- 142.91	123.91
			Average of Peak Amounts =		1.0	1.0		
Decachlorobiphenyl	25.553	27.333	8074	3987	0.017	0.020		100.00(a)

QC Flag Legend

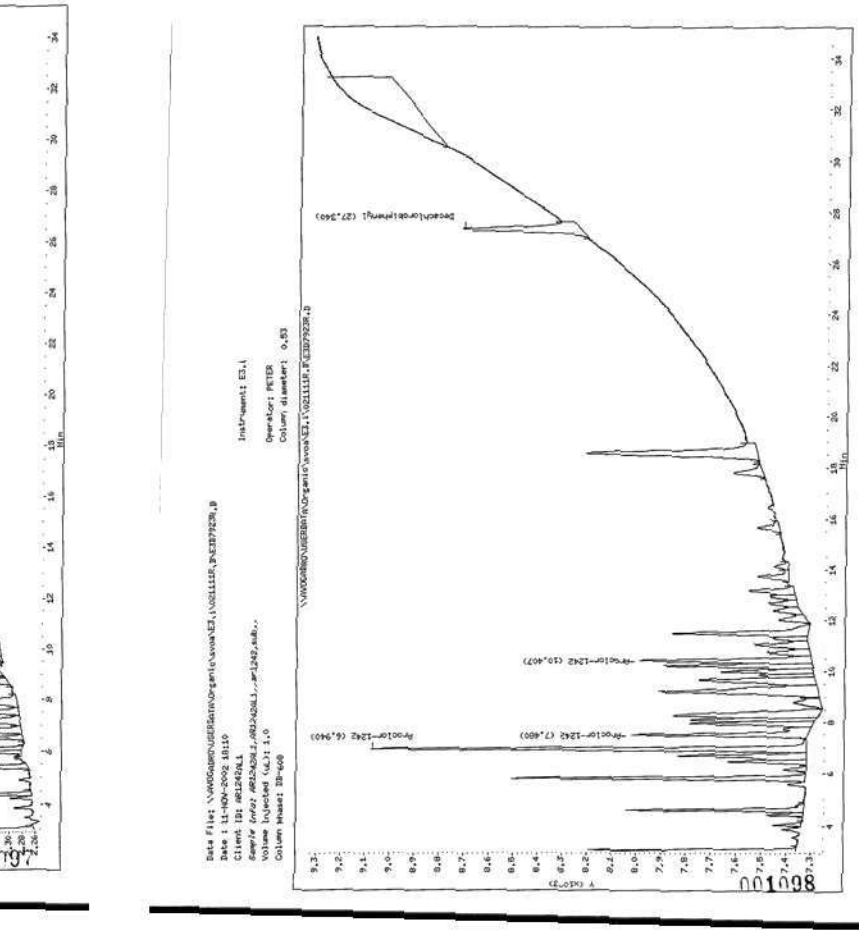
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

11/15/02

001096



001097



001098

Data File: E3D7923F.D
Report Date: 12-Nov-2002 16:17

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7923F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7923R.D
Inj Date : 11-NOV-2002 18:10
Sample Info: AR1242AL1,AR1242AL1,,ar1242.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:06
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1242.sub
Sub List #2 : ar1242.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

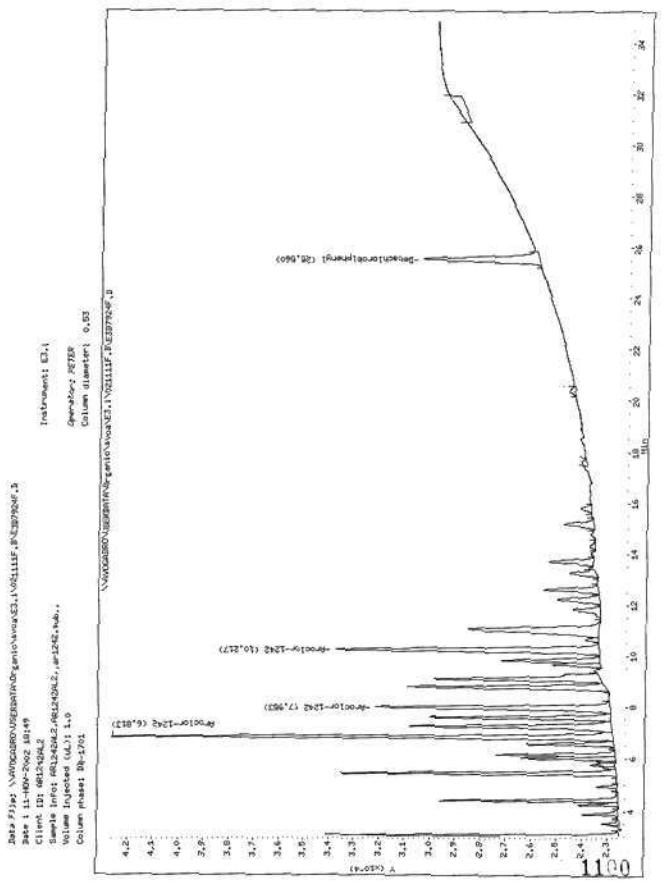
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

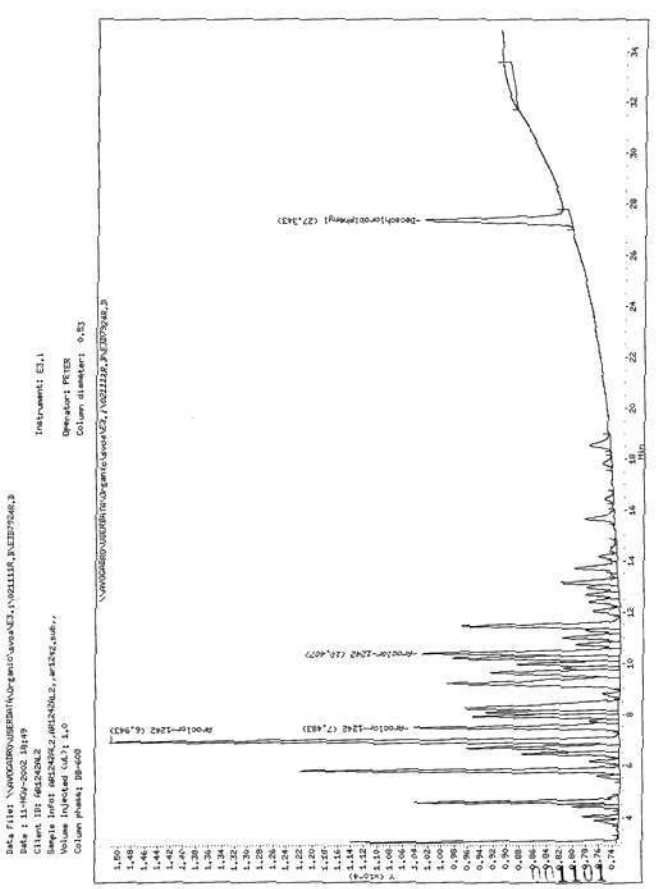
Name	Value	Description
DF	1.000	Dilution Factor
Uf	*1.000*	*Correction factor*
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	RatIo
Tetrachloro-m-xylene	3.030	3.027	2523	838	0.0024	0.0024		100.00(a)
Aroclor-1242	7.950	10.407	2218	689		0.12	80.00- 120.00	100.00(a)
	6.810	6.940	4843	1759		0.12	195.80- 285.80	255.10(a)
	10.210	7.480	3443	706		0.12	94.62- 134.92	102.47(a)
			Average of Peak Amounts =		0.00	0.12		
Decachlorobiphenyl	25.540	27.340	975	474	0.0021	0.0024		100.00(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).





Data File: E3D7924F.D
Report Date: 12-Nov-2002 16:17

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7924F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7924R.D
Inj Date : 11-NOV-2002 18:49
Sample Info: AR1242AL2,AR1242AL2,,ar1242.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:06
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1242.sub
Sub List #2 : ar1242.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

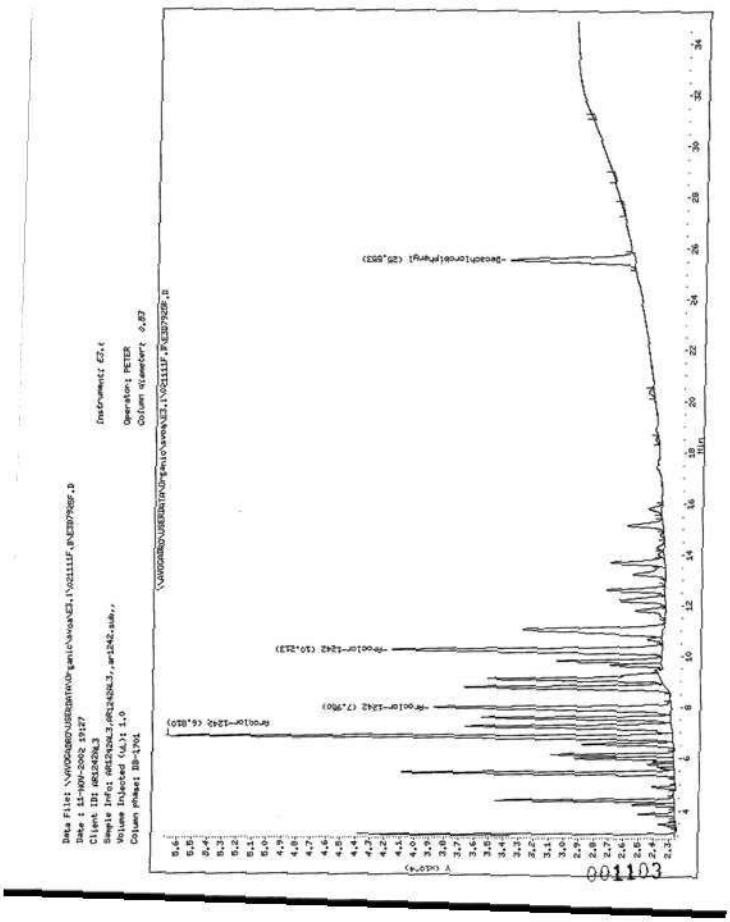
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

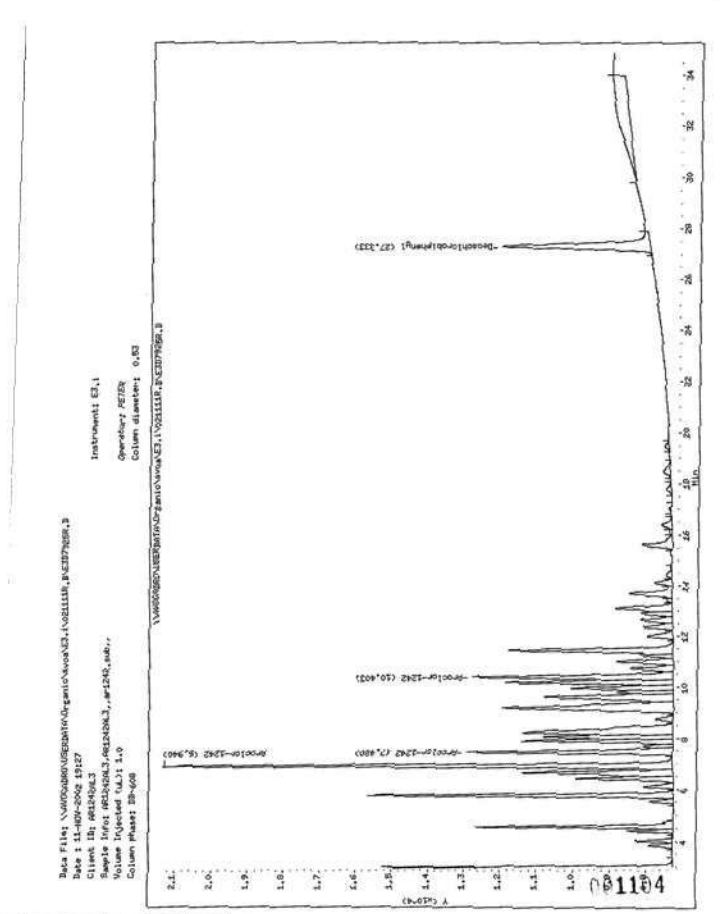
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	RatIo
Tetrachloro-m-xylene	3.030	3.027	11542	4087	0.011	0.011		100.00(a)
Aroclor-1242	7.953	10.407	9226	3017	0.53	0.53	80.00- 120.00	100.00(a)
	6.813	6.943	19916	7840	0.52	0.54	198.44- 298.44	214.78(a)
	10.217	7.483	10338	3323	0.52	0.54	94.34- 134.34	112.61(a)
			Average of Peak Amounts =		0.52	0.54		
Decachlorobiphenyl	25.540	27.343	4591	2321	0.0098	0.011		100.00(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).



001103



001104

Data File: E3D7925F.D
Report Date: 12-Nov-2002 16:17

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7925F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7925R.D
Inj Date : 11-NOV-2002 19:27
Sample Info: AR1242AL3,AR1242AL3,,ar1242.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:06
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1242.sub
Sub List #2 : ar1242.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

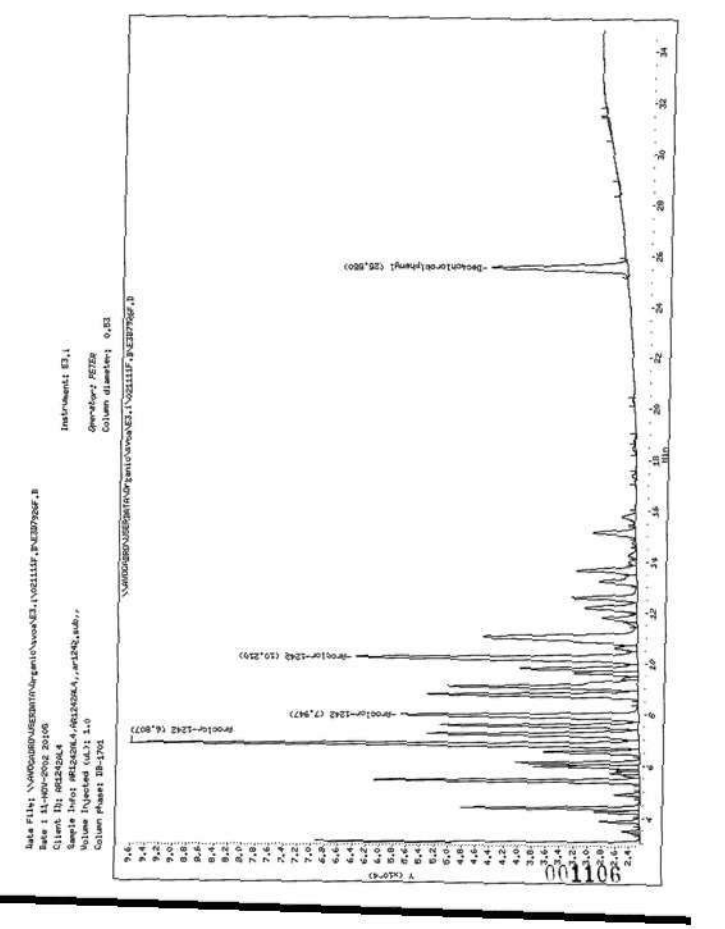
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-Xylene	3.027	3.023	21275	7977	0.020	0.022		100.00(a)
Aroclor-1242	7.950	10.403	15853	5472	1.1	0.96	80.00- 120.00	100.00
	6.810	6.940	33938	14057	1.1	0.98	198.44- 238.44	214.08
	10.213	7.480	17999	5620	1.1	0.98	96.34- 136.34	115.55
			Average of Peak Amounts =		1.1	0.97		
Decachlorobiphenyl	25.553	27.333	8390	4046	0.018	0.020		100.00(a)

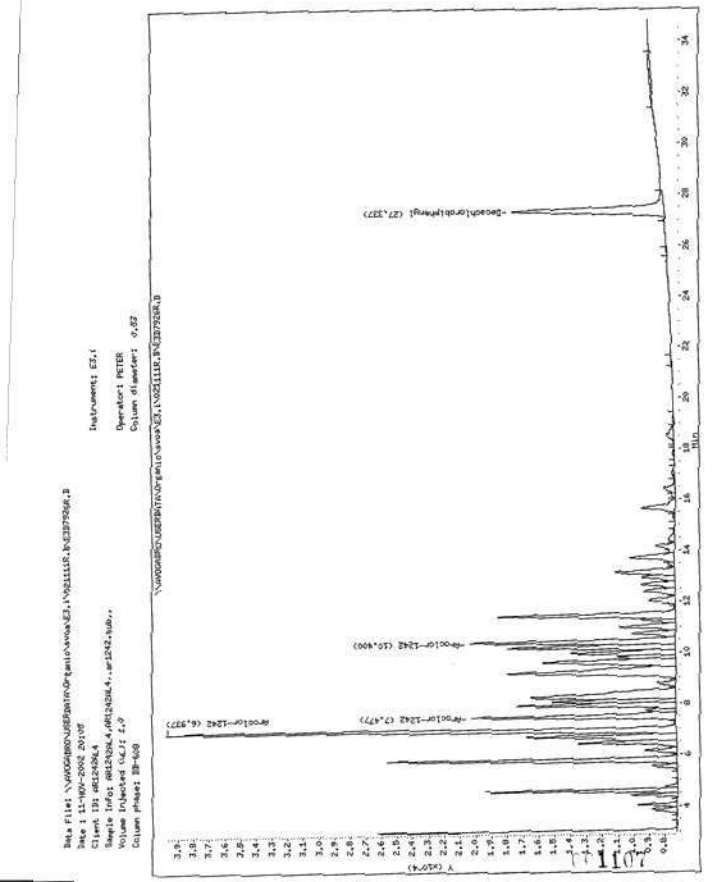
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

001105



001106



Data File: E3D7926F.D
Report Date: 12-Nov-2002 16:17

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7926F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7926R.D
Inj Date : 11-NOV-2002 20:05
Sample Info: AR1242AL4,AR1242AL4,,ar1242.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:07
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1242.sub
Sub List #2 : ar1242.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

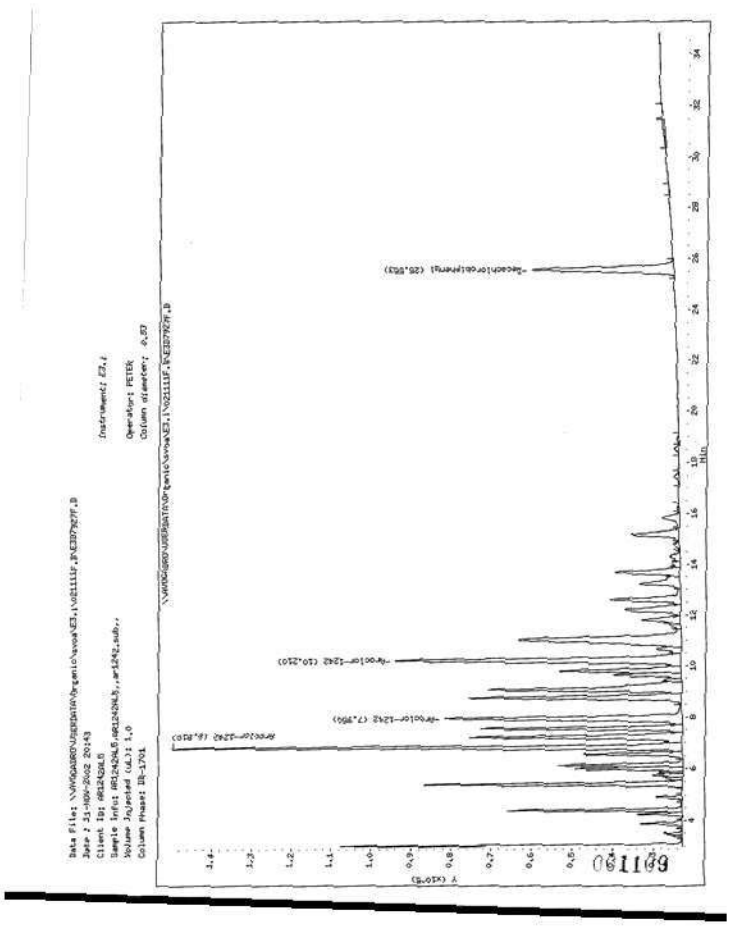
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-Xylene	3.027	3.010	46594	19056	0.045	0.053		100.00(a)
Aroclor-1242	7.947	10.400	33985	13000	2.7	2.3	80.0%- 120.0%	100.00
	6.807	6.937	79257	32479	2.7	2.2	198.4%- 238.4%	215.50
	10.210	7.477	40411	12910	2.7	2.2	96.3%- 134.3%	118.91
		Average of Peak Amounts =			2.7	2.3		
Decachlorobiphenyl	26.550	27.337	19507	9682	0.043	0.048		100.00(a)

QC Flag Legend

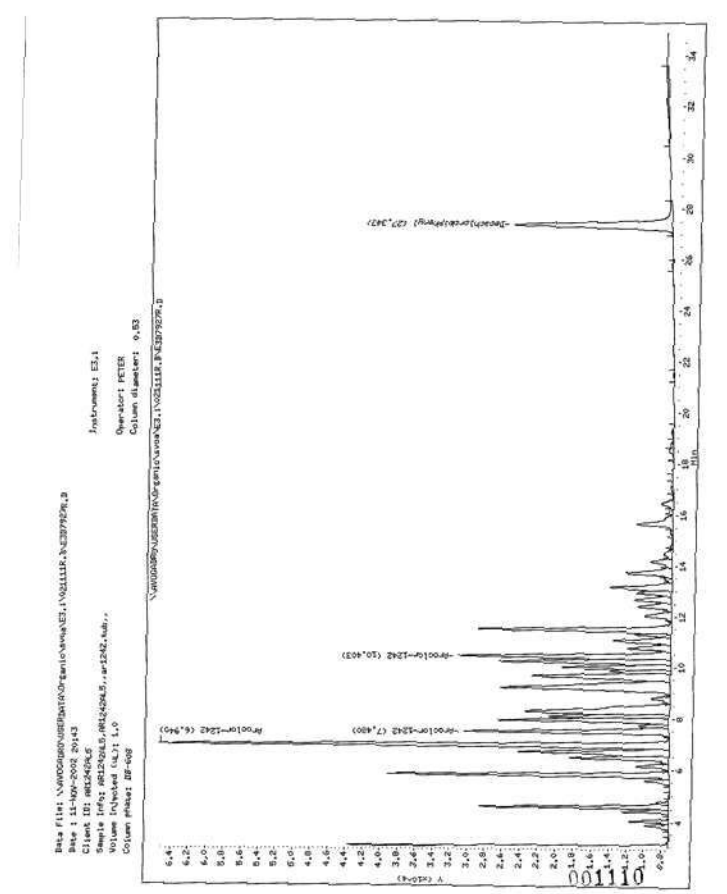
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

11/13/02

001108



001109



001110

Data File: E3D7927F.D
Report Date: 12-Nov-2002 16:17

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7927F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7927R.D
Inj Date : 11-NOV-2002 20:43
Sample Info: AR1242AL5,AR1242AL5,,ar1242.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:07
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1242.sub
Sub List #2 : ar1242.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

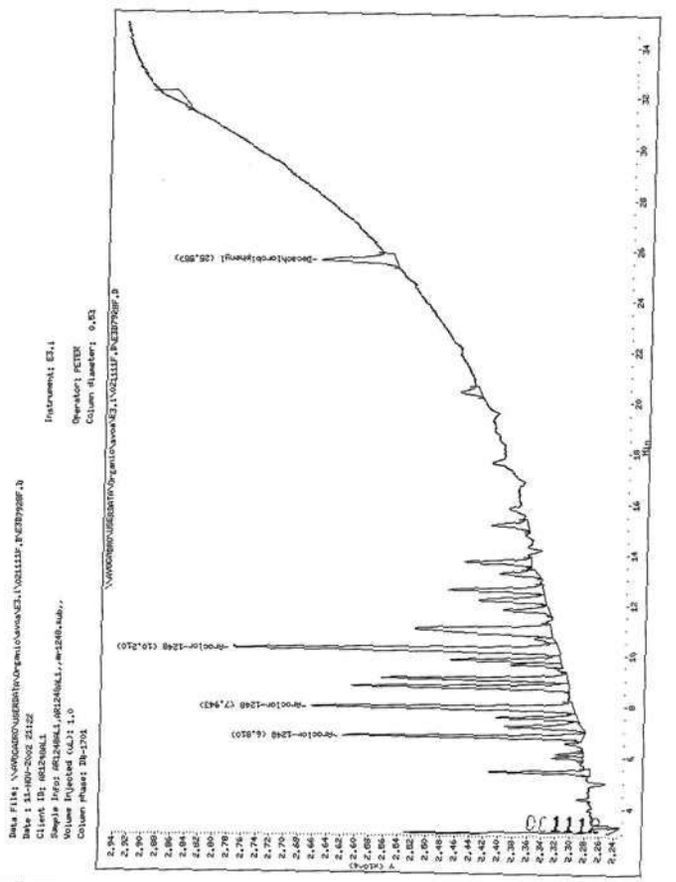
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.017	3.023	84831	36416	0.081	0.10		100.00(a)
Aroclor-1243	7.950	10.403	58855	23972	4.9	4.0	80.00- 120.00	100.50
	6.810	6.940	126926	58114	4.9	4.0	138.44- 238.44	215.65
	10.210	7.480	70943	25233	4.9	5.8	98.36- 136.36	120.39
			Average of Peak Amounts =		4.9	4.1		
Decachlorobiphenyl	25.583	27.343	35041	17851	0.075	0.089		100.00

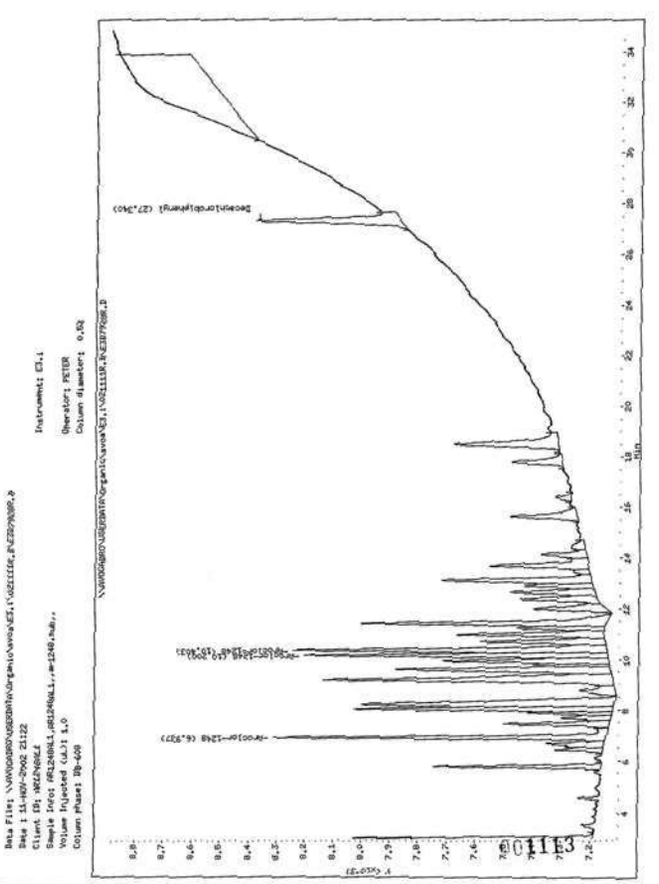
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

11/13

001111





Data File: E3D7928F.D
Report Date: 12-Nov-2002 16:17

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7928F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7928R.D
Inj Date : 11-NOV-2002 21:22
Sample Info: AR1248AL1,AR1248AL1,,ar1248.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:07
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1248.sub
Sub List #2 : ar1248.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

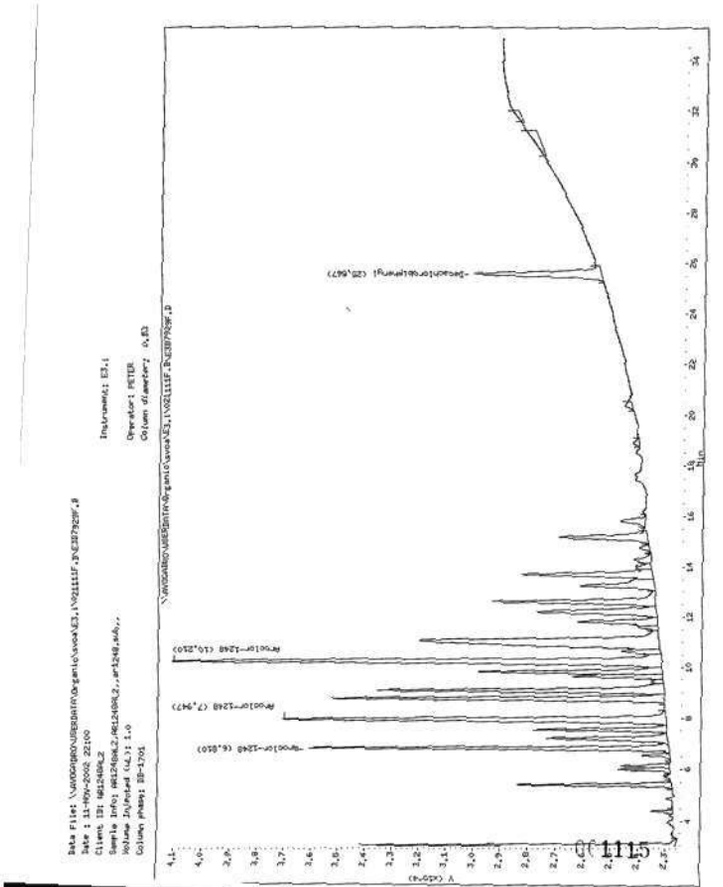
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.023	3.010	2866	840	0.0027	0.0024		100.00(a)
Aroclor-1248	6.810	6.917	3341	1169		0.12	80.00- 120.00	100.00(a)
	7.943	10.200	3648	1063		0.13	68.35- 108.35	91.40(a)
	10.210	10.403	4551	1100		0.12	75.45- 115.45	94.58(a)
			Average of Peak Amounts =		0.00	0.13		
Decachlorobiphenyl	25.587	27.340	1050	527	0.0023	0.0028		100.00(a)

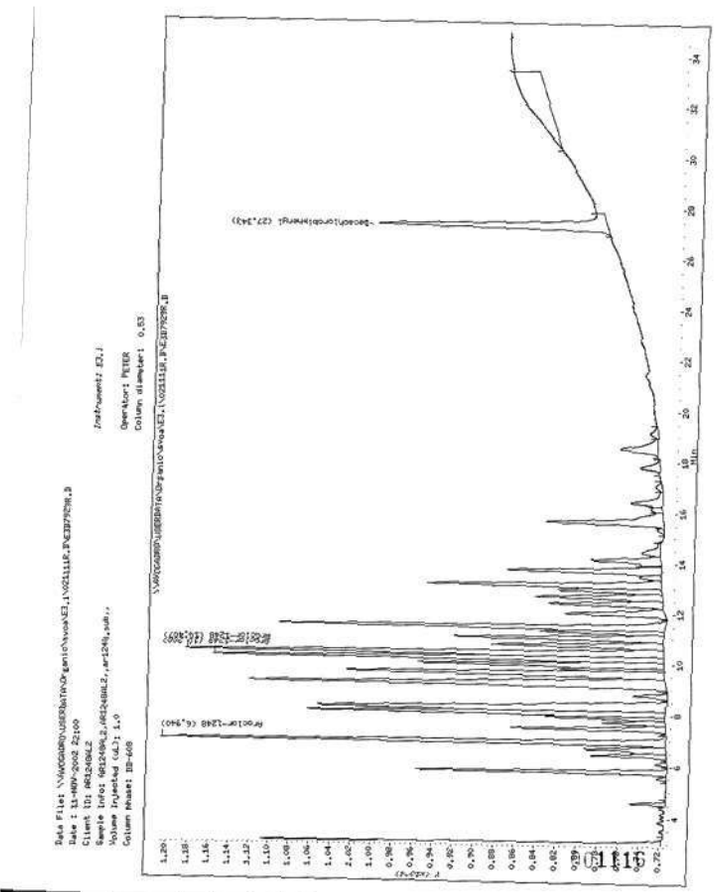
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

11/13

001114





Data File: R3D7929F.D
Report Date: 12-Nov-2002 16:17

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7929F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7929R.D
Inj Date : 11-NOV-2002 22:00
Sample Info: AR1248AL2,AR1248AL2,,ar1248.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:07
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1248.sub
Sub List #2 : ar1248.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

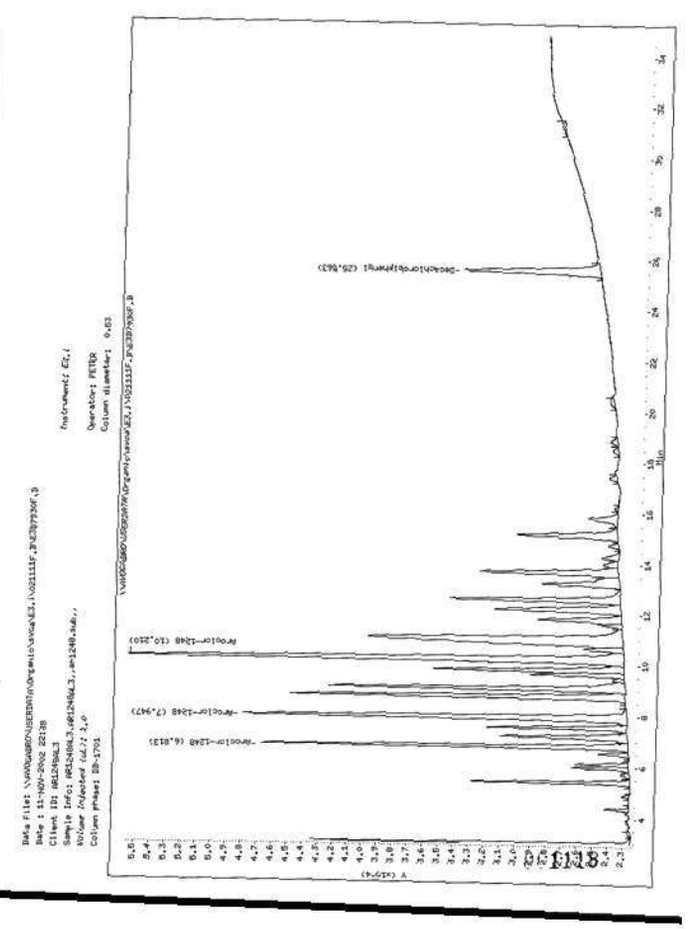
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

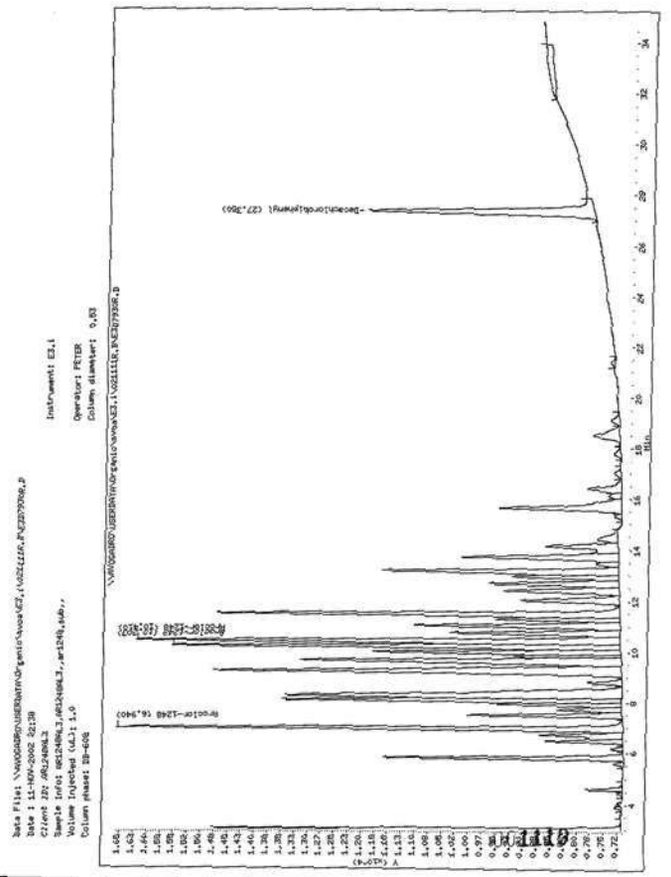
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-Xylene	9.027	9.023	13555	3917	0.011	0.011		100.00(a)
Aroclor-1248	6.810	6.940	13217	4920	0.50	0.52	80.00- 120.00	100.00(a)
	7.947	10.209	14049	4383	0.51	0.52	84.53- 124.53	106.39(a)
	10.218	10.407	27920	8684	0.50	0.52	224.84- 264.84	235.51(a)
		Average of Peak Amounts =			0.50	0.52		
Decachlorobiphenyl	28.047	27.343	1651	2247	0.0089	0.011		100.00(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

001117





Data File: E3D7930F.D
Report Date: 12-Nov-2002 16:17

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7930F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7930R.D
Inj Date : 11-NOV-2002 22:38
Sample Info: AR1248AL3,AR1248AL3,,ar1248.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:07
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1248.sub
Sub List #2 : ar1248.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

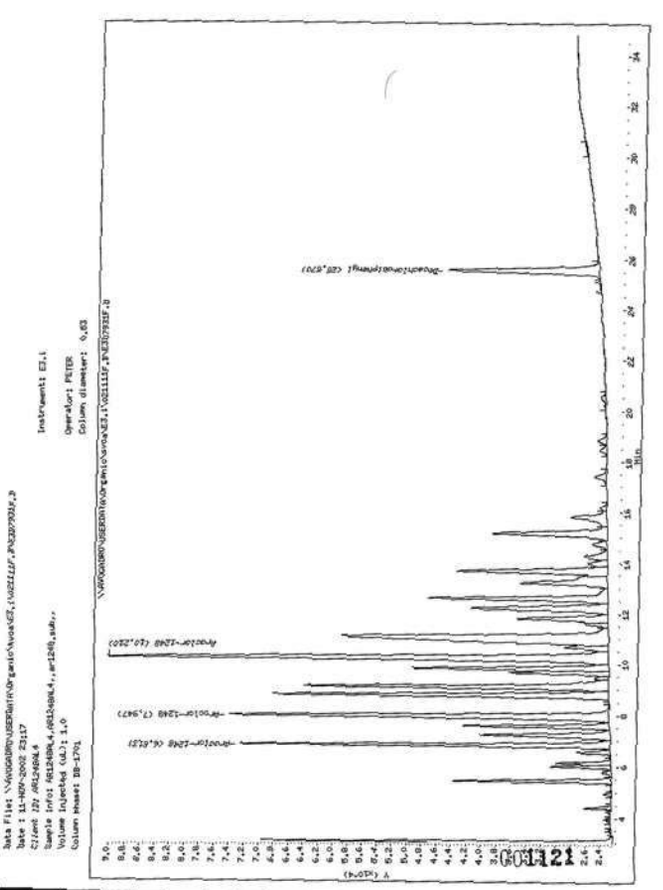
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	8.027	8.025	20411	7608	0.020	0.022		100.00(a)
Aroclor-1248	6.813	6.940	33972	9404	1.1	1.0	80.00- 130.00	100.00
	7.947	10.103	25057	8308	1.0	0.99	84.53- 124.53	104.53
	10.210	10.410	32329	8976	1.1	1.0	114.86- 154.86	134.86
			Average of Peak Amounts =		1.1	1.00		
Decachlorobiphenyl	28.568	27.350	8838	4283	0.018	0.022		100.00(a)

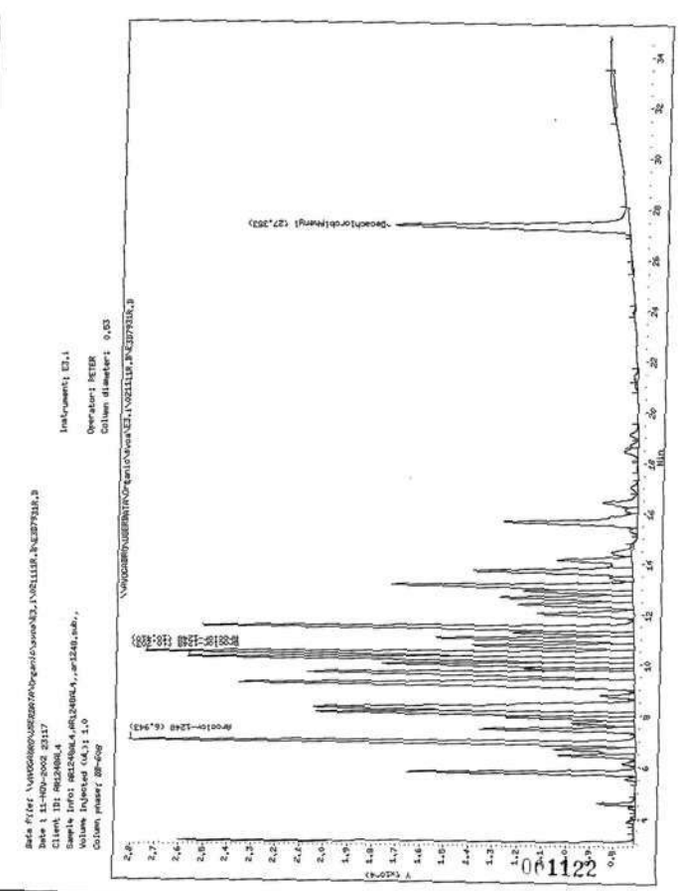
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

001120



001121



001122

Data File: E3D7931F.D
Report Date: 12-Nov-2002 16:17

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7931F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7931R.D
Inj Date : 11-NOV-2002 23:17
Sample Info: AR1248AL4,AR1248AL4,,ar1248.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:07
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1248.sub
Sub List #2 : ar1248.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

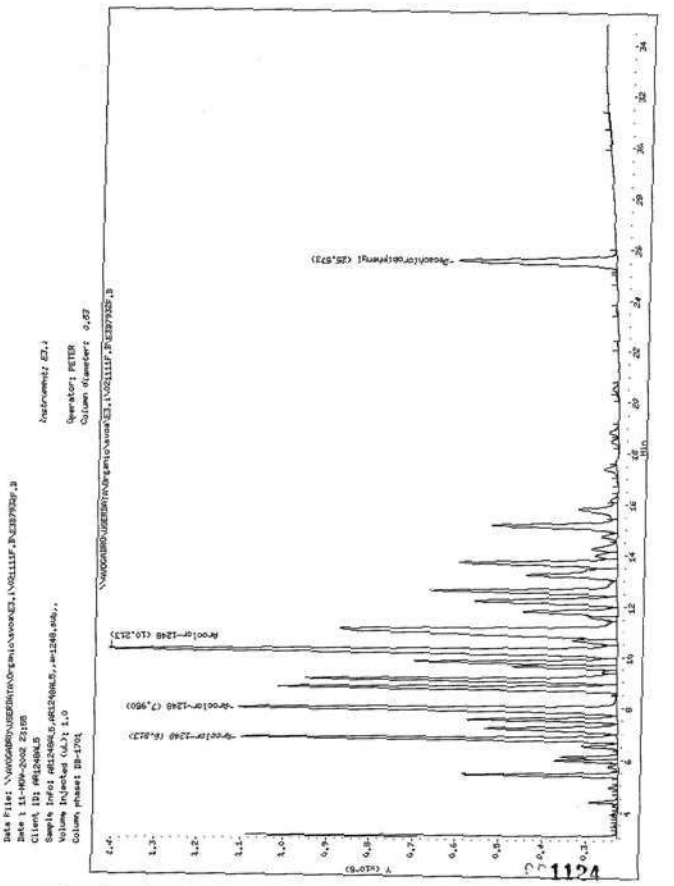
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

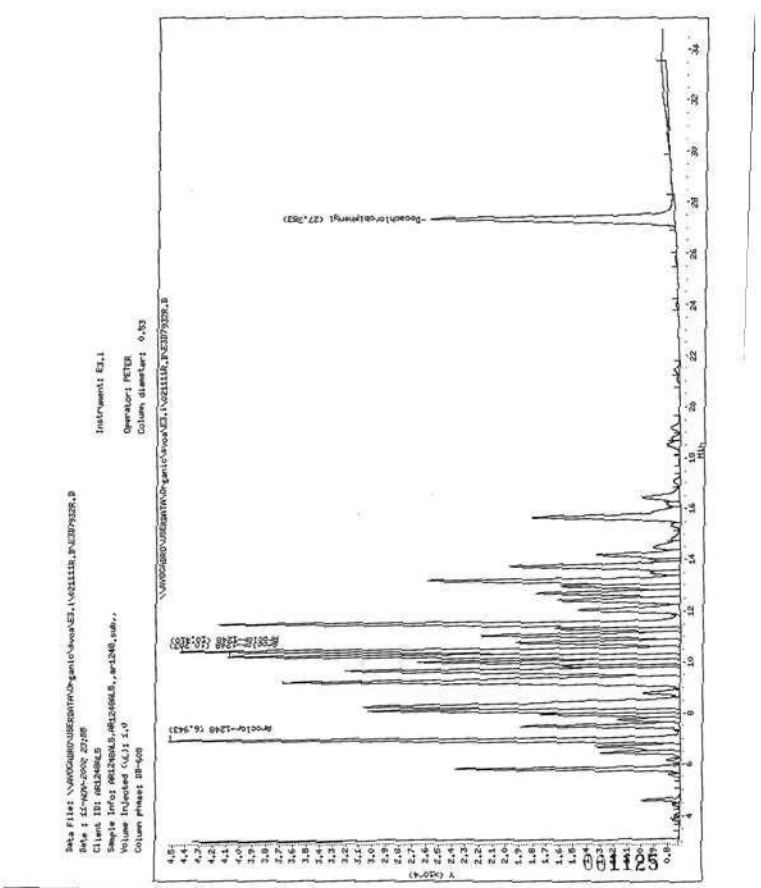
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-Xylene	3.027	3.023	47084	18933	0.045	0.053		100.00(a)
Aroclor-1248	6.813	6.963	49433	20904	2.7	3.2	80.00- 120.00	100.00
	7.949	10.205	50792	18419	2.7	2.2	84.53- 124.53	102.34
	10.210	10.410	47052	20140	2.7	2.2	114.86- 154.86	135.10
			Average of Peak Amounts =		2.7	2.2		
Decachlorobiphenyl	25.570	27.353	20214	9683	0.043	0.048		100.00(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

11/13/02





Data File: E3D7932F.D
Report Date: 12-Nov-2002 16:17

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7932F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7932R.D
Inj Date : 11-NOV-2002 23:55
Sample Info: AR1248AL5,AR1248AL5,,ar1248.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:07
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

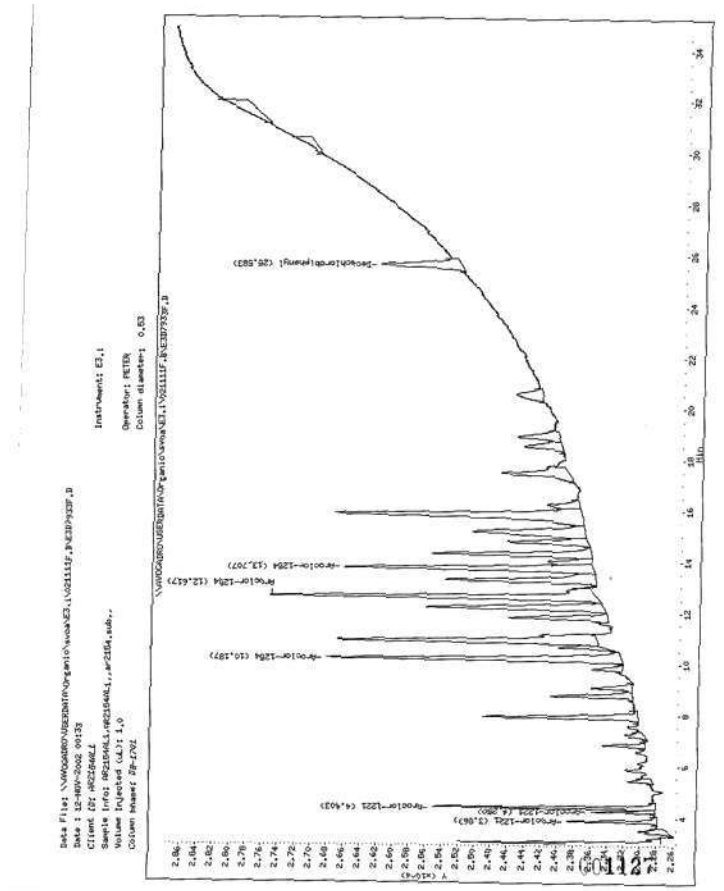
Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1248.sub
Sub List #2 : ar1248.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

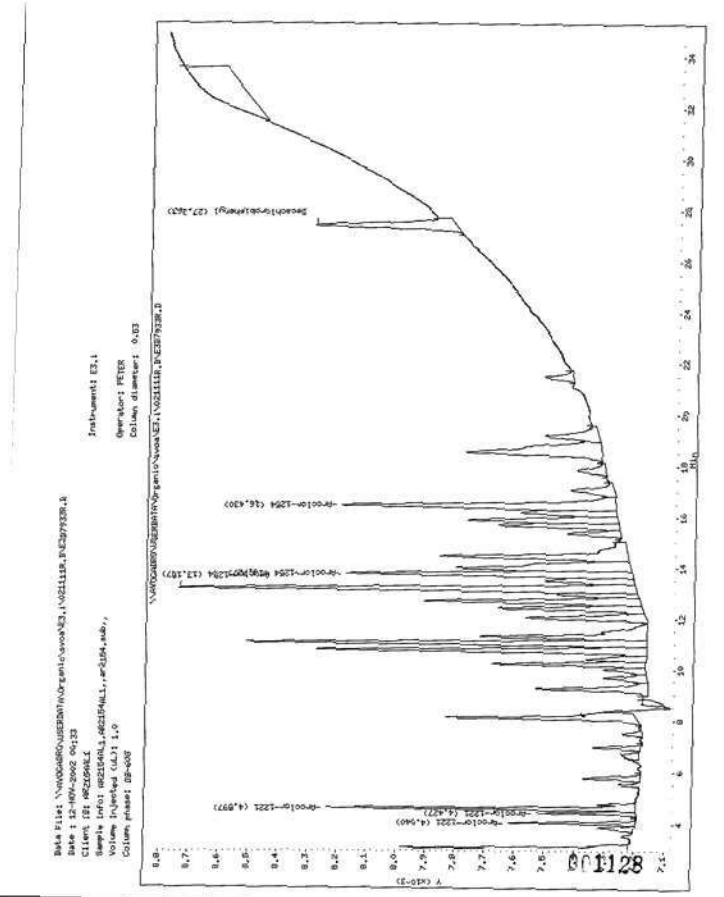
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-Xylene	3.027	3.023	85841	36249	0.082	0.10		100.00
Aroclor-1248	6.813	6.963	86846	38130	4.9	4.1	80.00- 120.00	100.00
	7.950	10.205	87460	33745	4.8	4.0	84.53- 124.53	100.71
	10.213	10.410	117303	37236	4.9	4.2	114.86- 154.86	135.07
			Average of Peak Amounts =		4.9	4.1		
Decachlorobiphenyl	25.573	27.353	36427	18151	0.078	0.093		100.00

11/13/02





Data File: R3D7933F.D
Report Date: 12-Nov-2002 16:17

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7933F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7933R.D
Inj Date : 12-NOV-2002 00:33
Sample Info: AR2154AL1,AR2154AL1,,ar2154.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:08
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar2154.sub
Sub List #2 : ar2154.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

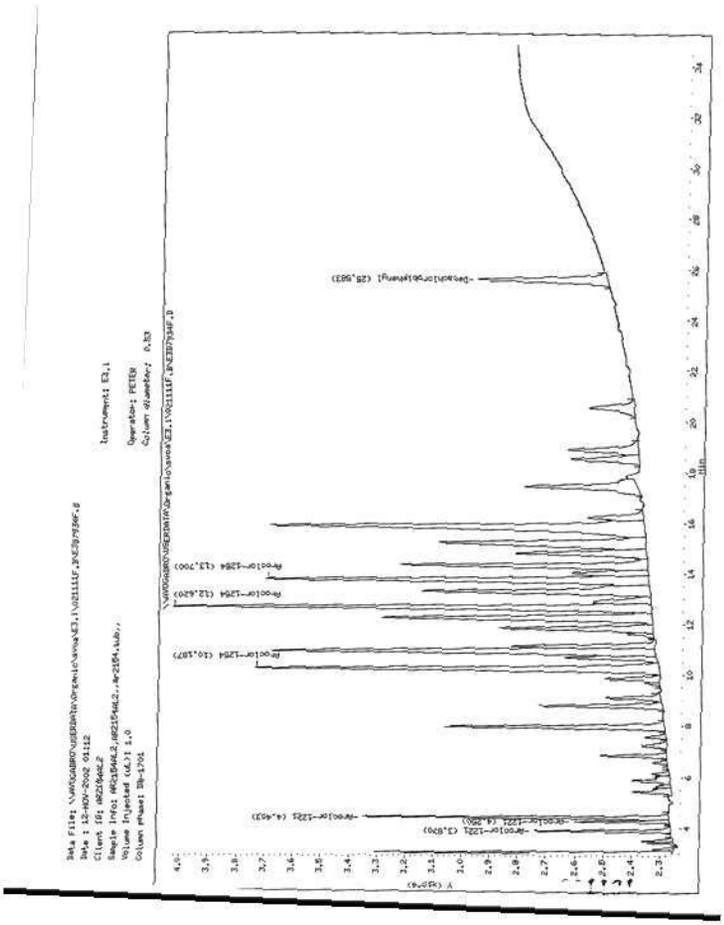
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.034	3.023	2439	746	0.0023	0.0032		100.00(a)
Aroclor-1232	3.867	4.046	1088	423		0.00024	80.00- 120.00	100.00(a)
	4.254	4.427	745	329			56.02- 84.02	77.78(a)
	4.404	4.597	1583	1037			201.00- 241.00	265.15(a)
		Average of Peak Amounts =			0.00	0.00024		
Aroclor-1254	10.187	16.430	3572	921		0.12	80.00- 120.00	100.00(a)
	12.617	13.159	3368	1537		0.12	139.97- 179.97	166.98(a)
	13.707	13.727	3020	965		0.13	77.66- 117.66	104.78(a)
		Average of Peak Amounts =			0.00	0.13		
Decachlorobiphenyl	25.583	27.343	983	477	0.0021	0.0024		100.00(a)

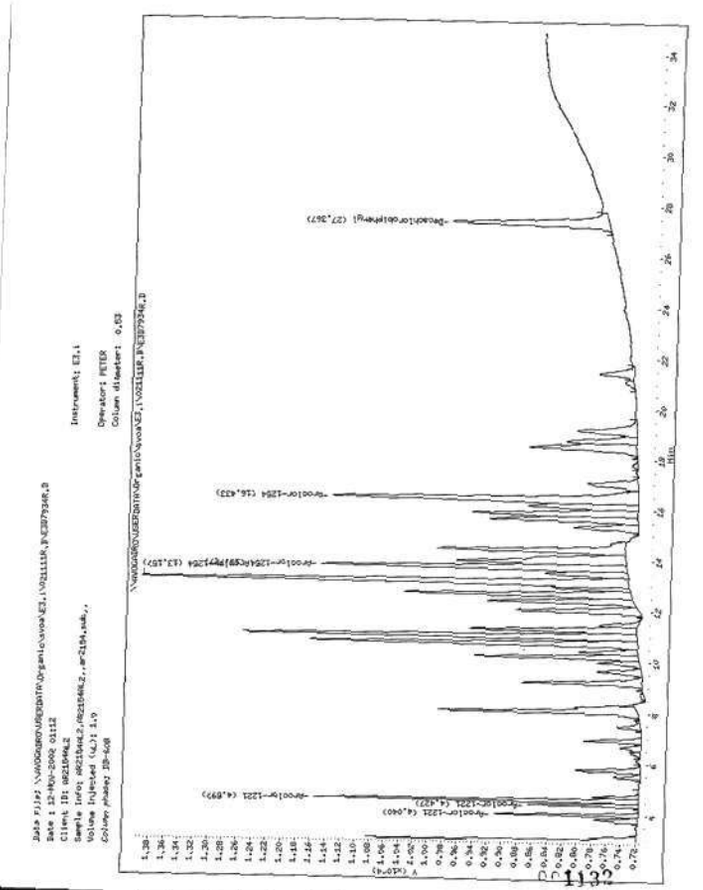
111X10

Data File: R3D7933F.D
Report Date: 12-Nov-2002 16:17

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).





Data File: E3D7934F.D
Report Date: 12-Nov-2002 16:17

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7934F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7934R.D
Inj Date : 12-NOV-2002 01:12
Sample Info: AR2154AL2,AR2154AL2,,ar2154.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:08
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar2154.sub
Sub List #2 : ar2154.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

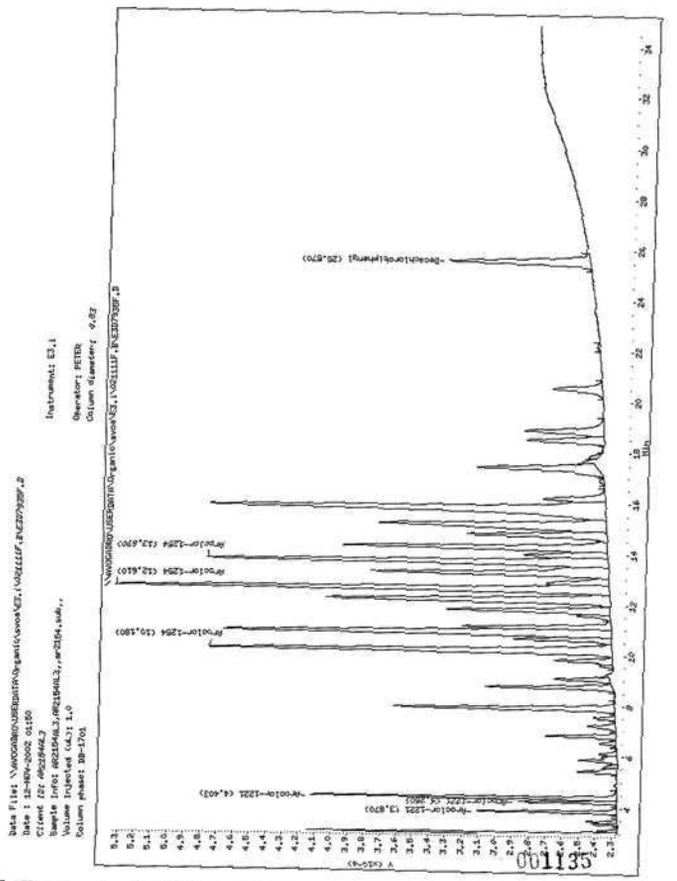
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

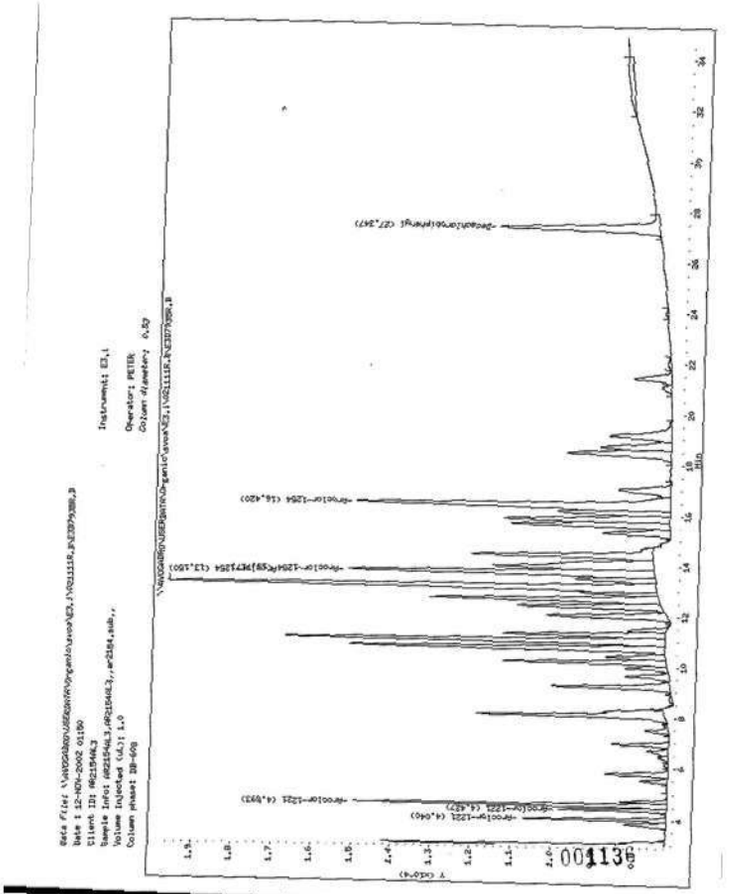
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.030	3.027	10483	3455	0.010	0.010		100.00(a)
Aroclor-1221	3.870	3.860	4754	1933	0.52	0.51	80.00- 120.00	196.05(a)
	4.252	*4.427*	*3328*	*2482*	*0.51*	*0.51*	*80.00- 80.00*	70.00(a)
	4.403	4.397	10151	4190	0.53	0.52	200.54- 240.54	228.15(a)
			Average of Peak Amounts =		0.52	0.51		
Aroclor-1254	10.187	16.433	14293	4130	0.53	0.53	80.00- 120.00	100.00(a)
	12.625	13.157	16283	6590	0.52	0.54	102.94- 142.34	118.27(a)
	13.700	*13.707*	*23824*	*8139*	*0.52*	*0.54*	*79.53- 119.53*	96.61(a)
			Average of Peak Amounts =		0.52	0.54		
Decachlorobiphenyl	25.583	27.367	4530	3108	0.0098	0.010		100.00(a)

Data File: E3D7934F.D
Report Date: 12-Nov-2002 16:17

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).





Data File: B3D7935F.D
Report Date: 12-Nov-2002 16:18

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\B3.i\021111F.B\B3D7935F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\B3.i\021111R.B\B3D7935R.D
Inj Date : 12-NOV-2002 01:50
Sample Info: AR2154AL3,AR2154AL3,,ar2154.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:08
Operator : PETER
Inst ID : B3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\B3.i\021111F.B\B3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\B3.i\021111R.B\B3_PCB_R.m
Sub List #1 : ar2154.sub
Sub List #2 : ar2154.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

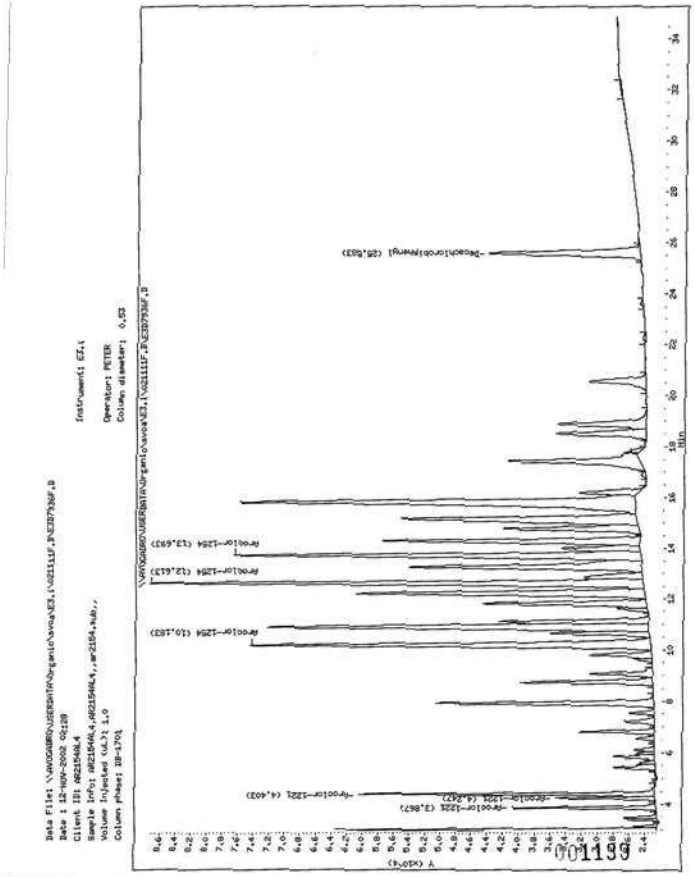
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-Xylene	3.030	3.027	18677	7038	0.018	0.020		100.00(a)
Aroclor-1221	3.870	4.040	8377	3518	1.1	1.0	80.00- 120.00	100.00
	4.230	4.427	5539	3475	1.1	1.1	50.80- 90.80	70.90
	4.403	4.599	18475	7777	1.1	1.1	200.54- 240.94	220.54
			Average of Peak Amounts =		1.1	1.1		
Aroclor-1254	10.180	16.420	24367	7775	1.1	1.0	80.00- 120.00	100.00
	12.610	13.150	29811	13119	1.1	0.99	102.34- 142.34	122.34
	12.690	13.777	24253	7253	1.1	1.00	79.53- 119.53	99.53
			Average of Peak Amounts =		1.1	1.00		
Decachlorobiphenyl	25.570	27.347	8496	3948	0.018	0.020		100.05(a)

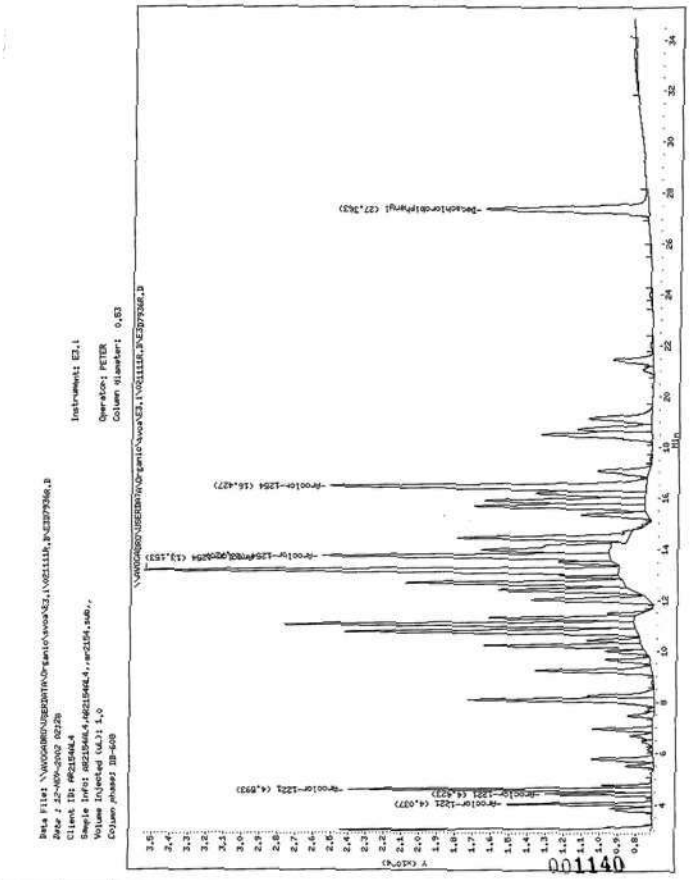
11/13/02

Data File: B3D7935F.D
Report Date: 12-Nov-2002 16:18

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).





Data File: E3D7936F.D
Report Date: 12-Nov-2002 16:18

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111P.B\E3D7936F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7936R.D
Inj Date : 12-NOV-2002 02:28
Sample Info: AR2154AL4,AR2154AL4,,ar2154.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:08
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar2154.sub
Sub List #2 : ar2154.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

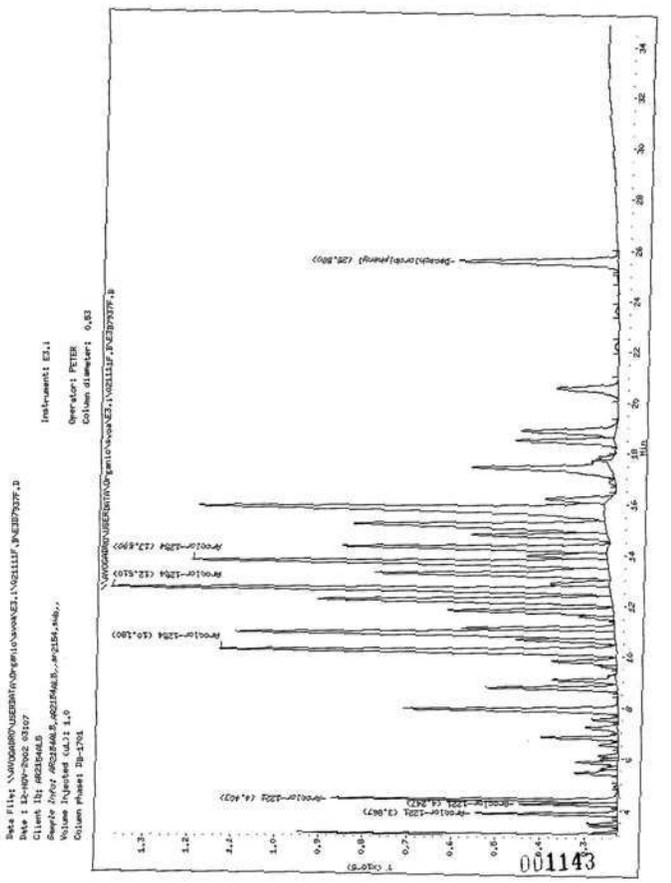
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.027	3.023	41002	17301	0.039	0.048		100.00(a)
Aroclor-1221	3.847	4.037	18190	8031	2.7	2.6	80.00- 120.00	100.00
	4.247	4.423	12676	5943	2.7	2.6	50.90- 90.90	69.69
	4.403	4.593	37740	16911	2.7	2.6	200.54- 240.54	207.48
		Average of Peak Amounts =			2.7	2.6		
Aroclor-1254	10.183	10.427	51093	17584	2.6	2.7	80.00- 120.00	100.00
	12.613	13.153	62948	26391	2.6	3.2	102.54- 142.54	123.30
	13.693	13.720	51881	15891	2.6	2.1	79.53- 119.53	101.84
		Average of Peak Amounts =			2.6	2.7		
Decachlorobiphenyl	25.583	27.343	19354	9039	0.041	0.045		100.05(a)

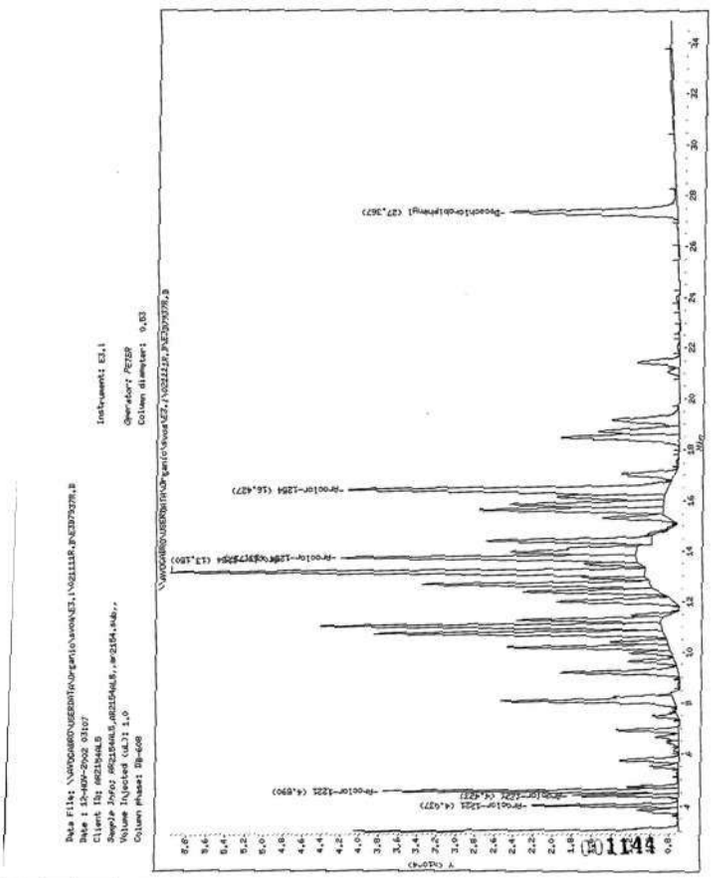
Data File: B3D7936P.D
Report Date: 12-Nov-2002 16:19

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).



001143



001144

Data File: B3D7937F.D
Report Date: 12-Nov-2002 16:18

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\B3.i\021111F.B\E3D7937F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\B3.i\021111R.B\E3D7937R.D
Inj Date : 12-NOV-2002 03:07
Sample Info: AR2154AL5,AR2154AL5,,ar2154.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:08
Operator : PETRR
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : *ar2154.sub*
Sub List #2 : ar2154.sub
Col #1 Phase : DB-1701
Col #2 Phase : *DB-608*

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	*1.000*	*Correction factor*
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.027	3.023	72444	33492	0.069	0.084		100.00(a)
Aroclor-1221	3.867	4.037	31737	14718	4.9	4.9	80.00- 120.00	100.00
	4.247	4.429	21976	10826	4.8	4.9	50.90- 90.90	68.93
	4.403	4.590	64347	30353	4.8	4.9	200.54- 240.54	202.81
			Average of Peak Amounts =		4.8	4.9		
Aroclor-1254	10.185	16.427	89671	32871	4.9	4.2	80.00- 120.00	100.00
	12.414	13.150	113223	43644	4.9	4.0	102.74- 142.34	126.26
	13.690	13.717	99897	30442	4.9	4.0	79.59- 119.39	104.48
			Average of Peak Amounts =		4.9	4.1		
Decachlorobiphenyl	25.580	27.367	35493	17288	0.076	0.086		100.00(a)

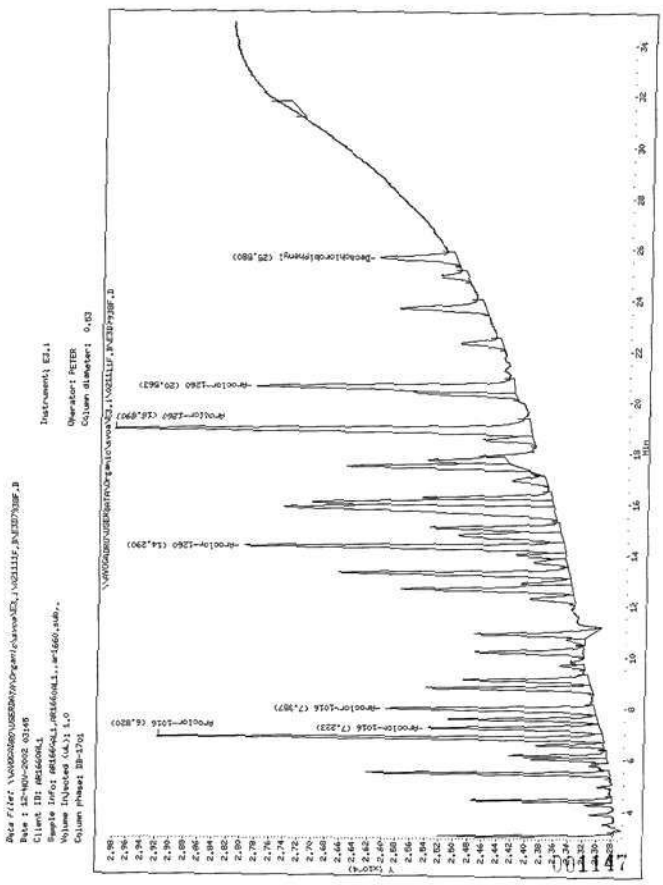
001145

Data File: E3D7937F.D
Report Date: 12-Nov-2002 16:18

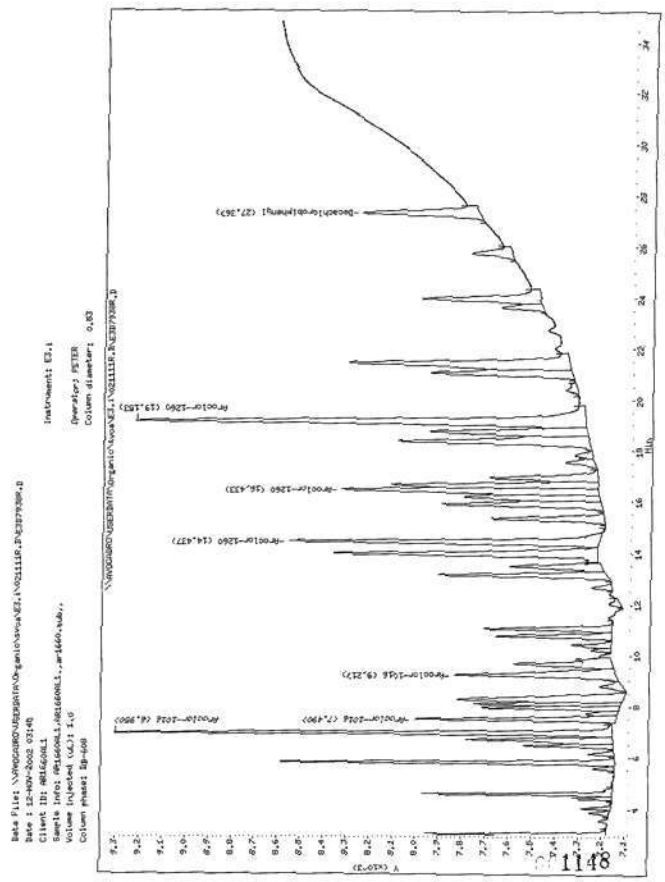
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

001146



001147



001148

Data File: E3D7938F.D
Report Date: 12-Nov-2002 16:18

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7938F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7938R.D
Inj Date : 12-NOV-2002 03:45
Sample Info: AR1660AL1,AR1660AL1,,ar1660.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:08
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	%Dio
TetraChloro-m-xylene	3.030	3.027	1442	776	0.0023	0.0022		100.00(a)
Aroclor-1016	7.223	9.217	2393	694		0.12	80.00- 120.00	100.00(a)
	6.820	6.950	6352	2153		0.12	296.55- 374.55	310.09(a)
	7.957	7.680	2911	867		0.12	105.31- 145.31	124.93(a)
			Average of Peak Amounts =		0.00	0.12		
Decachlorobiphenyl	25.580	27.367	1071	503	0.0023	0.0025		100.00(a)
Aroclor-1260	14.290	14.437	4490	1339		0.13	80.00- 120.00	100.00(a)
	18.930	16.413	5832	1107		0.12	71.99- 111.99	82.67(a)
	20.363	19.233	3619	1944		0.12	141.42- 181.42	145.18(a)
			Average of Peak Amounts =		0.00	0.12		

11/15/02

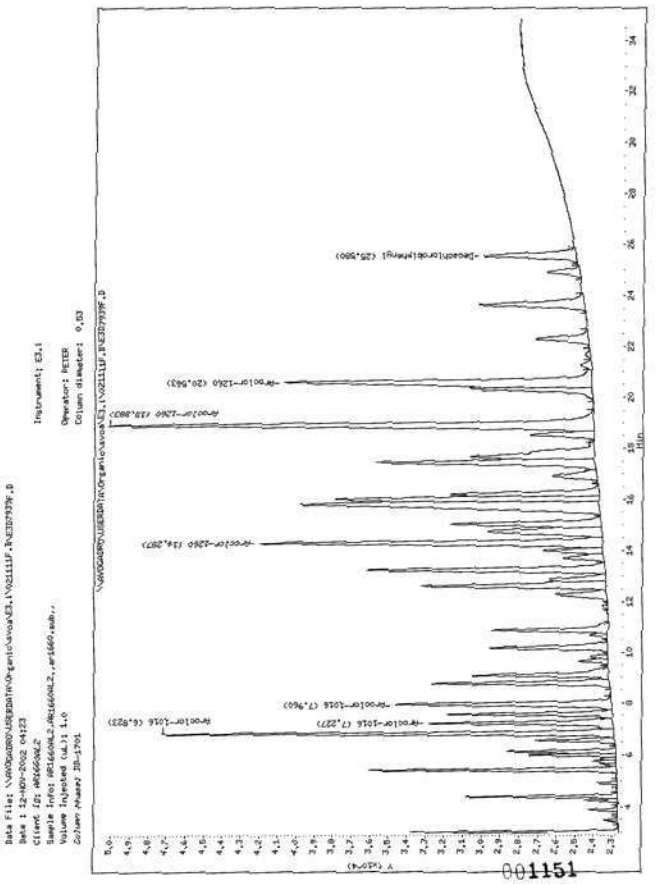
001149

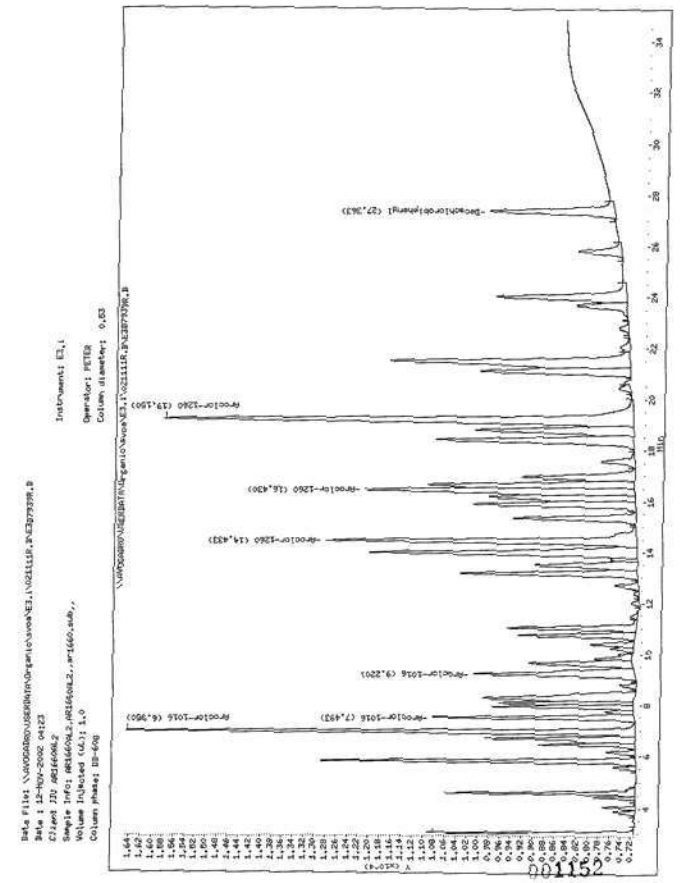
Data File: E3D7938F.D
Report Date: 12-Nov-2002 16:18

QC Flag Legend

a - Target compound detected but, quantitated amount *Below Limit Of Quantitation(BLOQ).*

001150





Data File: E3D7939F.D
Report Date: 12-Nov-2002 16:18

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7939F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7939R.D
Inj Date : 12-NOV-2002 04:23
Sample Info: AR1660AL2,AR1660AL2,,ar1660.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:08
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * *DF * Uf * Vt/(Vo * Vi)*

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

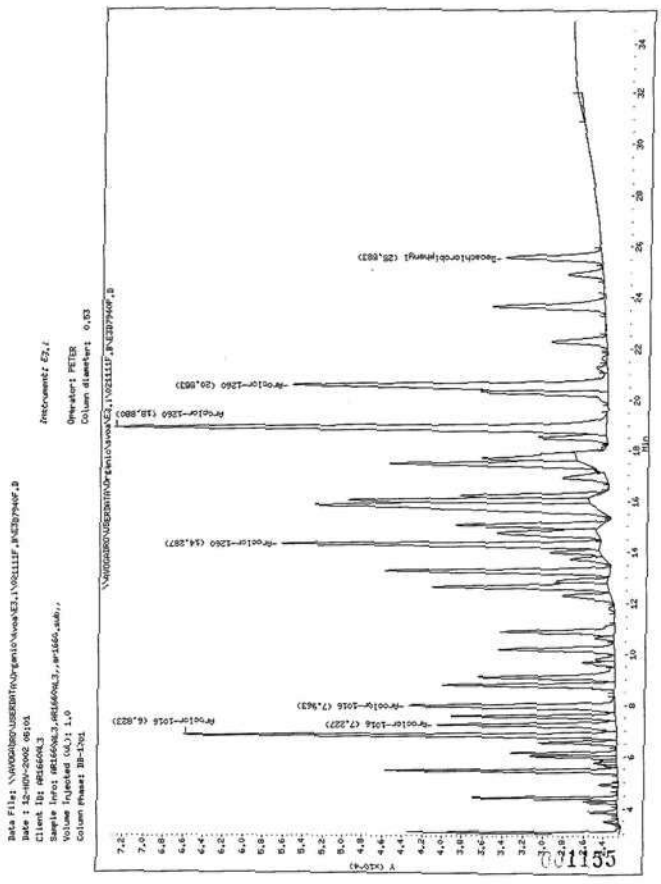
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.033	3.030	11130	3761	0.011	0.010		100.00(a)
Aroclor-1016	7.227	9.220	9809	2945	0.52	0.53	90.00- 130.00	100.00(a)
	6.822	*7.950*	*24999*	*8321*	*2.50*	*2.53*	*223.99- 263.99*	*268.07(a)*
	7.960	7.493	11567	3482	0.50	0.52	95.46- 135.46	117.92(a)
			Average of Peak Amounts =		0.50	0.53		
Decachlorobiphenyl	25.580	27.343	4956	2281	0.010	0.011		100.00(a)
Aroclor-1260	14.287	14.433	18395	5484	0.51	0.54	80.00- 120.00	100.00(a)
	18.883	16.430	26050	6935	0.50	0.52	134.58- 174.58	141.61(a)
	20.563	19.150	16545	8578	0.49	0.51	79.02- 119.02	89.84(a)
			Average of Peak Amounts =		0.50	0.52		

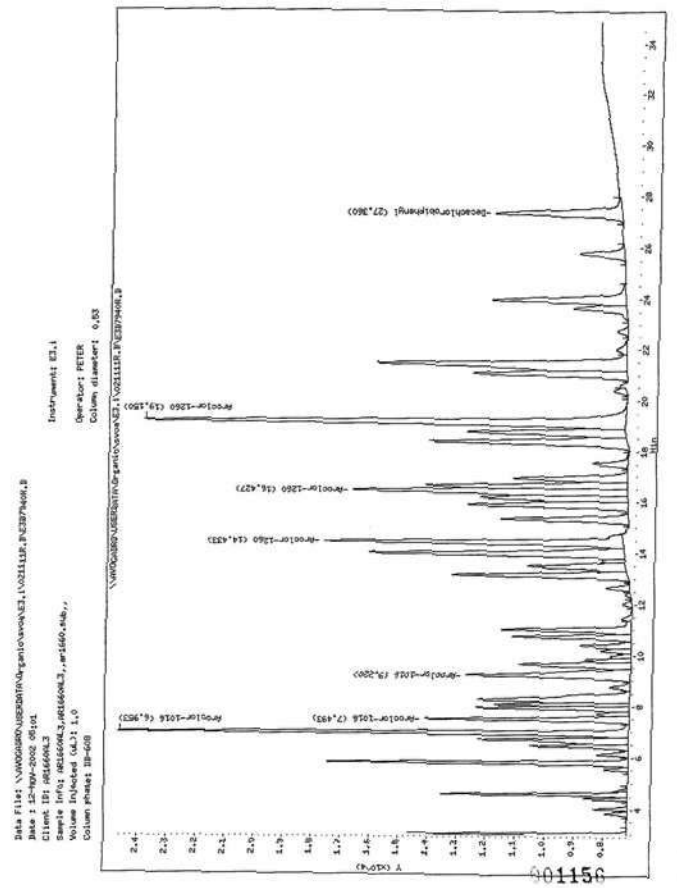
11/13/02

Data File: E3D7939F.D
Report Date: 12-Nov-2002 16:18

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).





Data File: E3D7940F.D
Report Date: 12-Nov-2002 16:18

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7940F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7940R.D
Inj Date : 12-NOV-2002 05:01
Sample Info: AR1660AL3,AR1660AL3,,ar1660.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:09
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	9.037	9.030	21052	7474	0.020	0.021		100.0%(a)
Aroclor-1016	7.227	9.220	17473	5574	1.1	1.00	80.00- 120.00	100.0%
	6.823	6.953	43120	17539	1.1	1.00	223.99- 263.99	243.9%
	7.963	7.493	20405	6385	1.1	0.99	95.46- 135.46	115.4%
		Average of Peak Amounts =			1.1	1.00		
Decachlorobiphenyl	25.583	27.360	9458	4327	0.020	0.022		100.0%(a)
Aroclor-1260	14.287	14.433	31411	10211	1.0	0.97	80.00- 120.00	100.0%
	18.880	16.427	48866	9395	1.1	0.99	134.58- 174.58	154.5%
	20.553	19.150	31330	16463	1.1	0.98	79.02- 119.02	99.0%
		Average of Peak Amounts =			1.1	0.98		

11/13/02

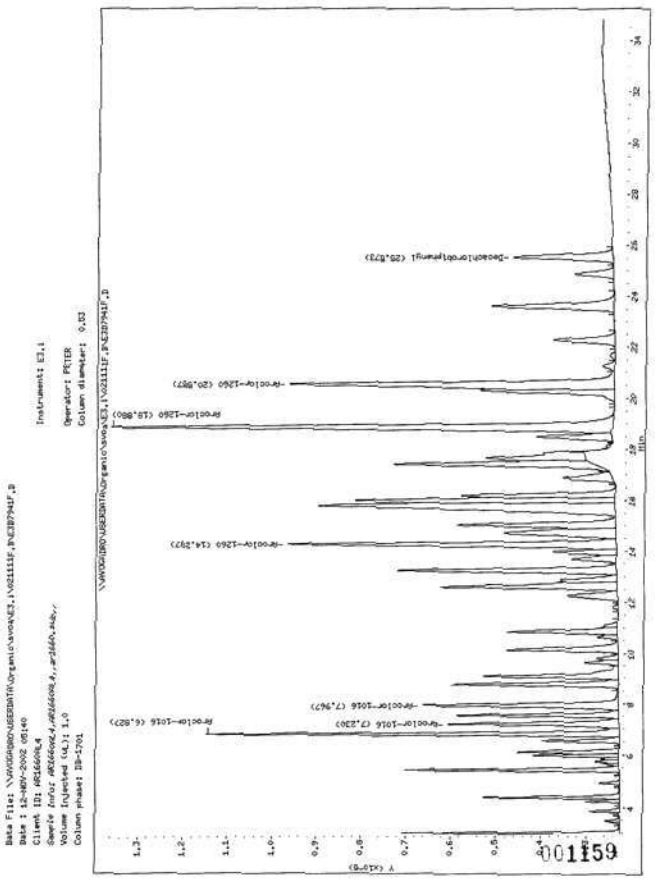
001157

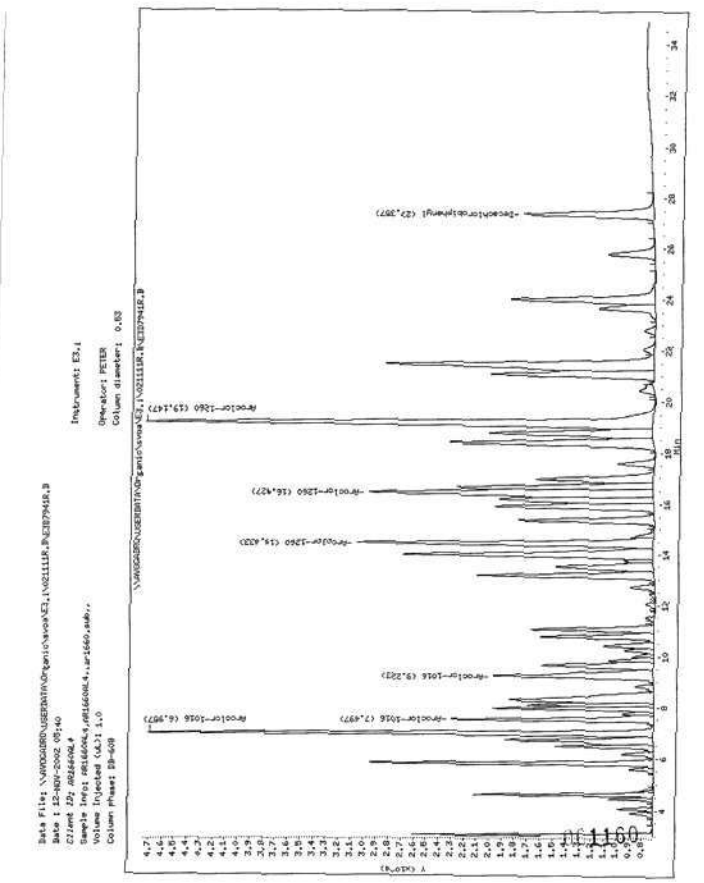
Data File: E3D7940F.D
Report Date: 12-Nov-2002 16:18

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

001158





Data File: E3D7941F.D
Report Date: 12-Nov-2002 16:18

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7941F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7941R.D
Inj Date : 12-NOV-2002 05:40
Sample Info: AR1660AL4,AR1660AL4,,ar1660.sub,.
Misc Info :
Cal Date : 12-NOV-2002 15:09
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.037	7.033	44194	18921	0.046	0.053		100.00(a)
Aroclor-1016	7.230	7.233	37843	12493	2.8	2.2	85.00- 120.00	100.00
	6.827	6.827	51575	19968	2.7	2.3	133.99- 263.99	243.05
	7.967	7.497	43172	15896	2.7	2.3	95.46- 135.46	114.35
			Average of Peak Amounts =		2.7	2.3		
Decachlorobiphenyl	28.873	27.357	22031	10296	0.047	0.051		100.00(a)
Aroclor-1260	14.287	14.433	72403	23332	2.8	2.2	80.00- 120.00	100.00
	18.880	16.427	111471	33971	2.6	2.4	134.58- 174.58	152.90
	20.557	19.147	72058	29971	2.6	2.4	79.02- 119.02	98.84
			Average of Peak Amounts =		2.7	2.3		

11/15/02

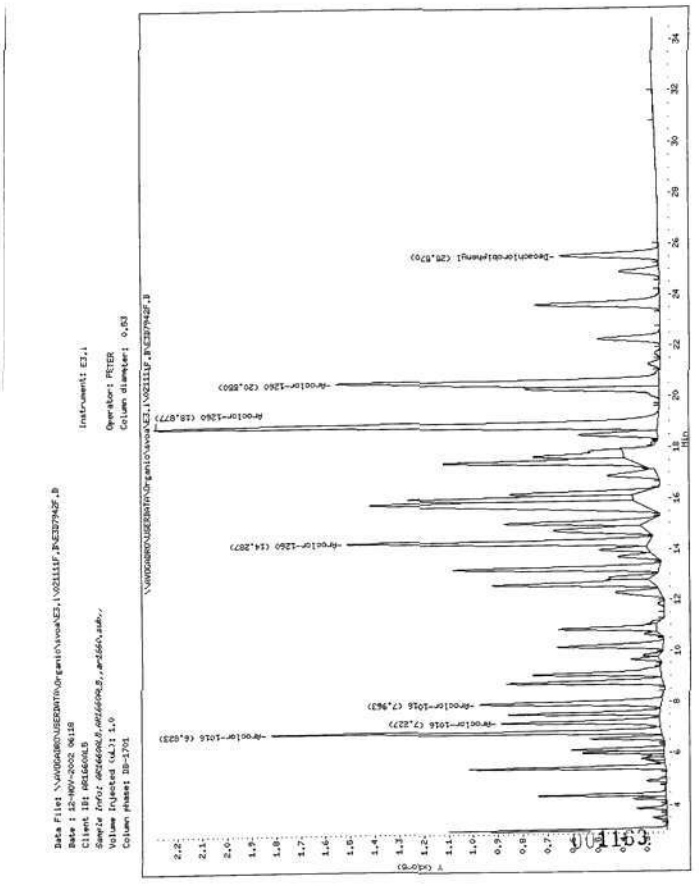
001161

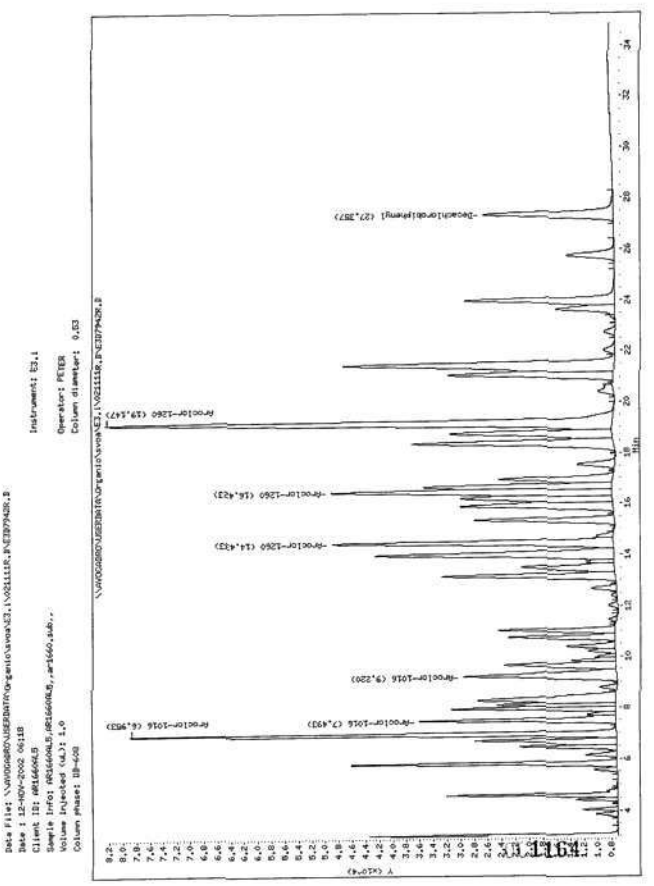
Data File: E3D7941F.D
Report Date: 12-Nov-2002 16:18

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

001162





Data File: E3D7942F.D
Report Date: 12-Nov-2002 16:18

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3D7942F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3D7942R.D
Inj Date : 12-NOV-2002 06:18
Sample Info: AR1660AL5,AR1660AL5,,ar1660.sub,,
Misc Info :
Cal Date : 12-NOV-2002 15:09
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

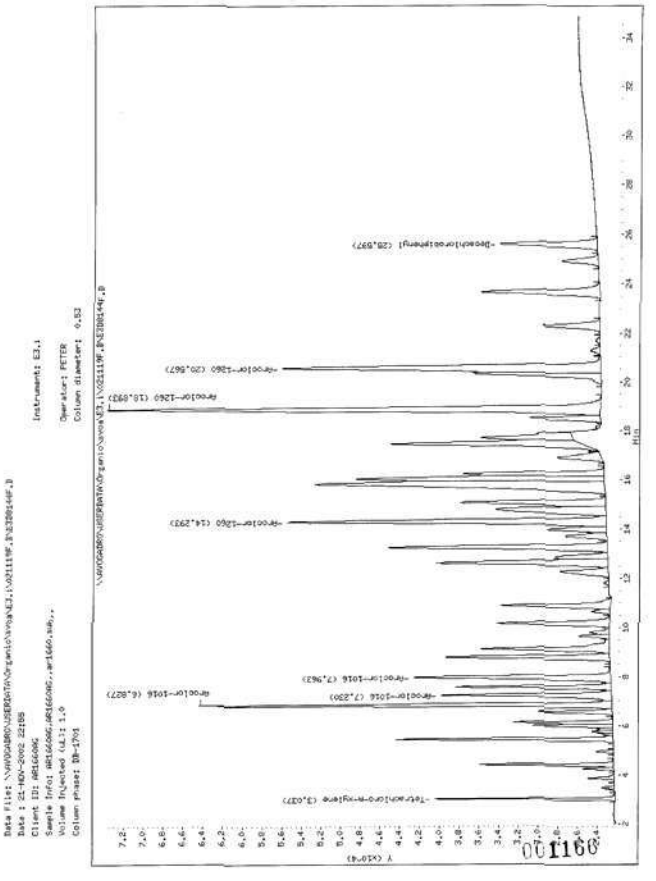
Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021111R.B\E3_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

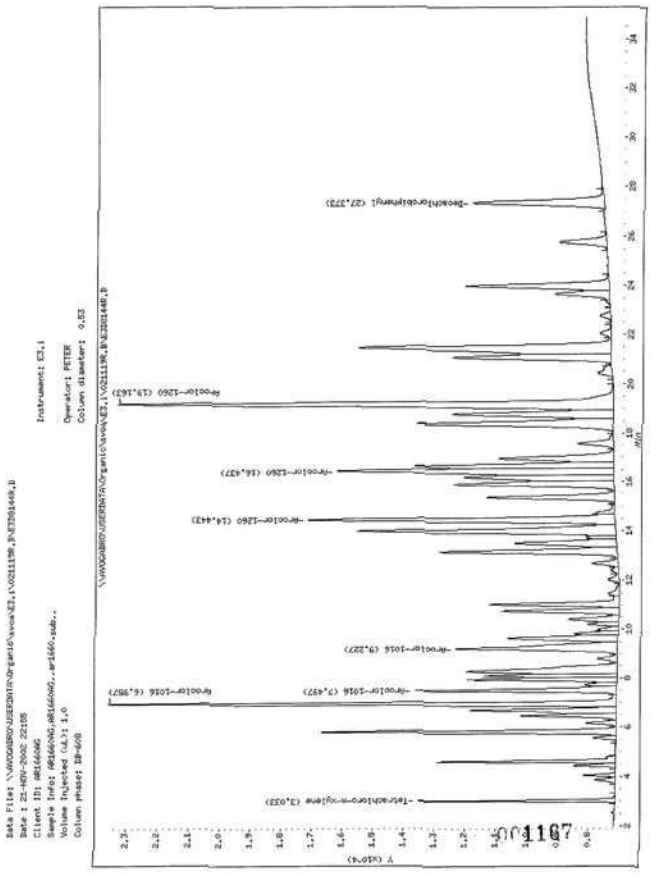
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.033	3.010	87569	36377	0.084	0.10		100.00
Aroclor-1016	7.227	9.220	63589	22372	4.8	4.0	80.00- 120.00	100.00
	6.823	6.953	157384	71599	4.8	4.1	223.99- 263.99	247.46
	7.963	7.493	72760	28683	4.8	4.1	95.46- 135.46	114.40
			Average of Peak Amounts =		4.8	4.1		
Decachlorobiphenyl	25.570	27.357	38926	19118	0.085	0.094		100.00
Aroclor-1260	14.287	14.433	232026	41282	4.8	3.8	80.00- 120.00	100.00
	18.877	15.423	203642	41151	4.9	4.3	134.58- 174.58	164.39
	20.280	19.147	130492	74501	4.4	79.03-	119.03	106.94
			Average of Peak Amounts =		4.9	4.2		

001165





001167

Data File: E3D8144F.D
Report Date: 26-Nov-2002 14:57

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119F.B\E3D8144F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119R.B\E3D8144R.D
Inj Date : 21-NOV-2002 22:55
Sample Info: AR1660AG,AR1660AG,,ar1660.sub,,
Misc Info :
Cal Date : 22-NOV-2002 09:13
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119R.B\E3_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-Xylene	3.037	3.033	18198	6375	0.017	0.018		100.00(a)
Aroclor-1016	7.230	9.227	17163	5218	1.1	0.94	80.00- 120.00	100.00
	6.827	6.957	41817	16483	1.1	0.94	225.24- 265.24	243.65
	7.963	7.497	19878	8525	1.1	0.93	95.49- 135.49	115.82
			Average of Peak Amounts =		1.1	0.94		
Decachlorobiphenyl	25.597	27.373	9816	4246	0.021	0.021		100.00(a)
Aroclor-1260	14.293	14.443	33270	9968	1.1	0.95	80.00- 120.00	100.00
	18.893	16.437	49868	8961	1.1	0.94	134.07- 174.07	154.47
	20.567	19.163	52274	16072	1.1	0.96	80.88- 120.88	99.70
			Average of Peak Amounts =		1.1	0.95		

11/18/02

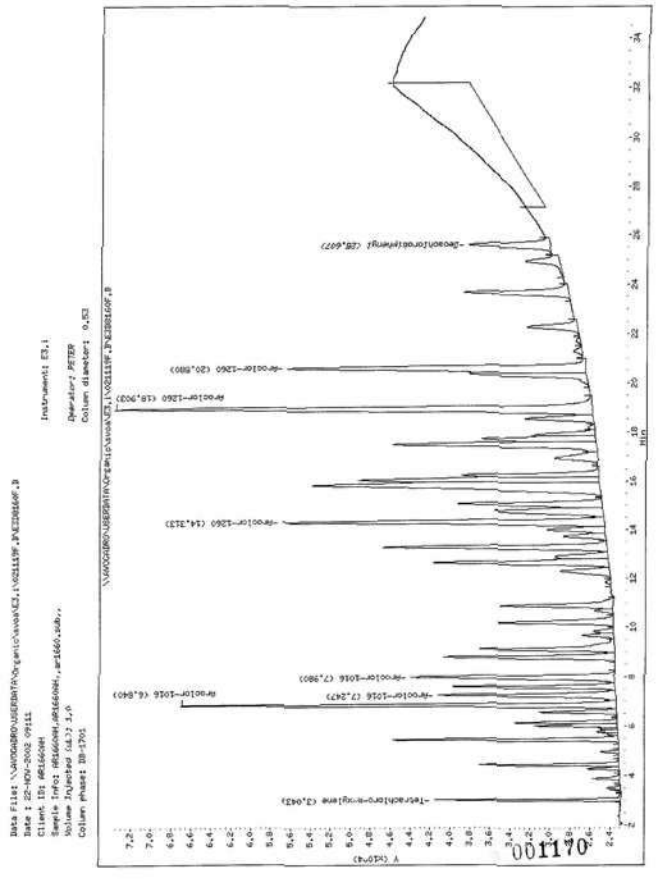
001168

Data File: E3D8144F.D
Report Date: 26-Nov-2002 14:57

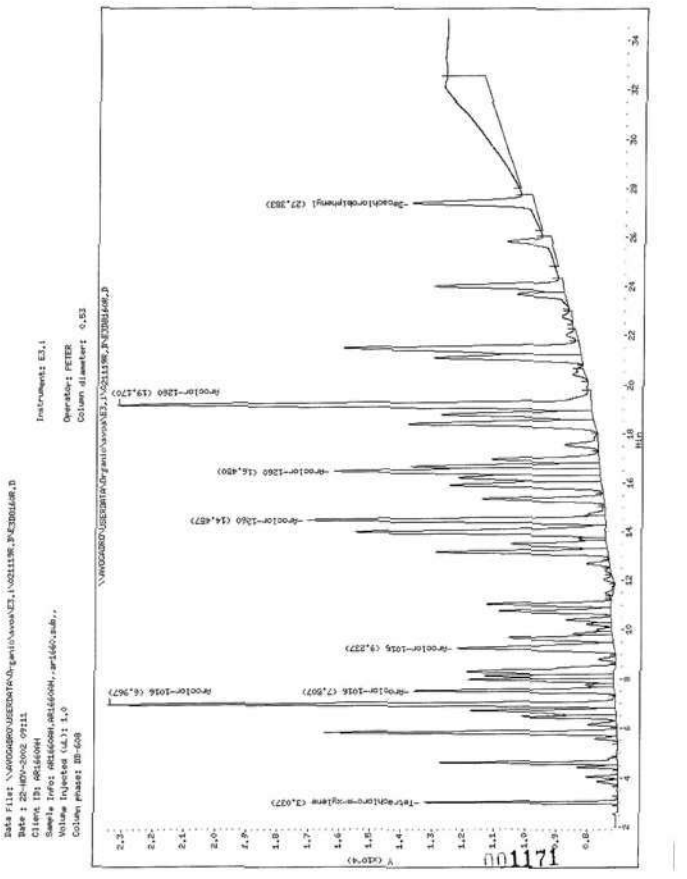
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

001169



001170



001171

Data File: E3D8160F.D
Report Date: 26-Nov-2002 14:57

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119F.B\E3D8160F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119R.B\E3D8160R.D
Inj Date : 22-NOV-2002 09:11
Sample Info: AR1660AH,AR1660AH,,ar1660.sub,,
Misc Info :
Cal Date : 22-NOV-2002 10:30
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119R.B\E3_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range		Ratio
Tetrachloro-m-xylene	3.043	3.037	18627	6233	0.018	0.017			100.00(a)
Aroclor-1016	7.247	9.237	17735	5055	1.1	0.91	80.00-	120.00	100.00
	6.840	6.967	43643	14336	1.1	0.93	235.24-	265.24	244.08
	7.880	7.507	20367	6435	1.1	0.93	95.69-	135.69	114.84
			Average of Peak Amounts =		1.1	0.92			
Decachlorobiphenyl	25.807	27.383	8096	3908	0.017	0.020			100.00(a)
Aroclor-1260	14.313	14.457	32185	9597	1.1	0.91	80.00-	120.00	100.00
	18.903	16.480	47777	8564	1.0	0.90	134.07-	174.07	148.44
	20.580	19.170	29913	15259	1.0	0.91	80.39-	120.39	92.94
			Average of Peak Amounts =		1.0	0.91			

SZ 11/26/02

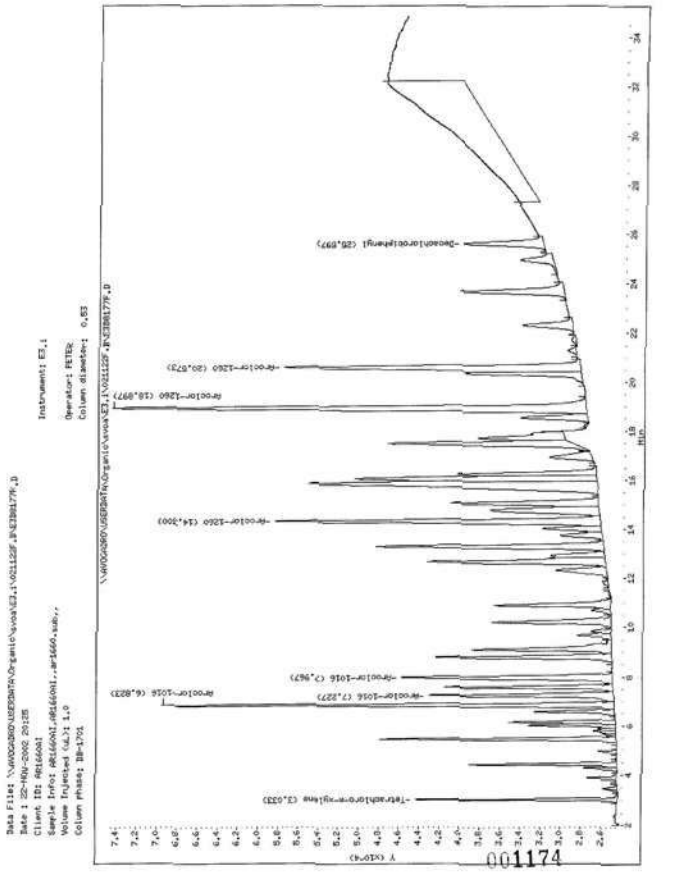
001172

Data File: E3D8160F.D
Report Date: 26-Nov-2002 14:57

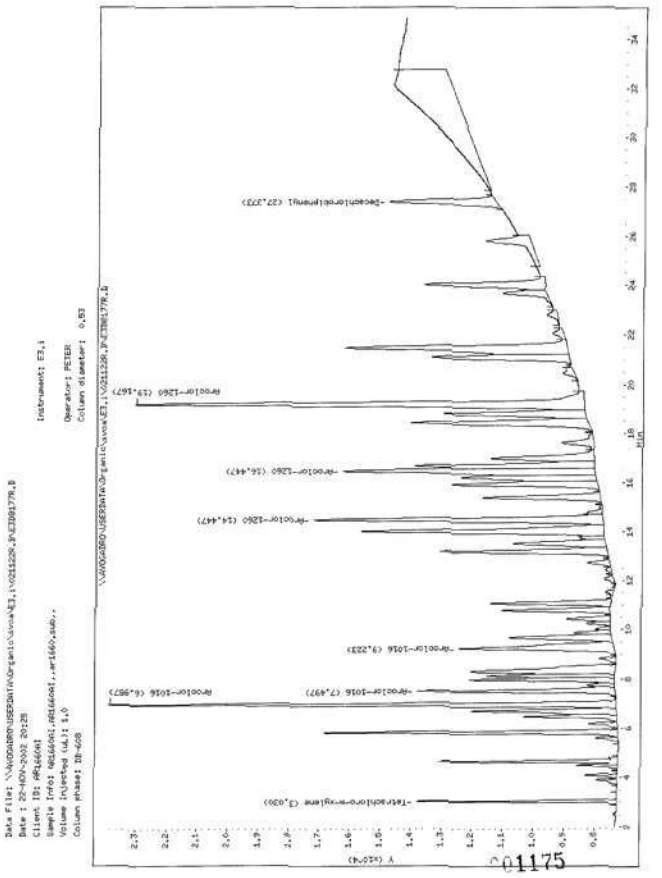
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

001173



001174



001175

Data File: E3D8177F.D
Report Date: 26-Nov-2002 14:58

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3D8177F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3D8177R.D
Inj Date : 22-NOV-2002 20:25
Sample Info: AR1660AI,AR1660AI,,ar1660.sub,,
Misc Info :
Cal Date : 25-NOV-2002 09:32
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\R3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\R3_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.033	3.030	13905	6531	0.019	0.018		100.00(a)
Aroclor-1016	7.227	9.223	18204	5083	1.2	0.91	80.00- 120.00	100.00
	6.823	6.957	44796	16574	1.2	0.94	225.71- 265.71	246.08
	7.967	7.497	20819	6459	1.2	0.93	96.07- 136.07	114.36
			Average of Peak Amounts =		1.2	0.93		
Decachlorobiphenyl	25.597	27.373	7886	3495	0.017	0.017		100.00(a)
Aroclor-1260	14.300	14.447	32225	9449	1.1	0.90	80.00- 120.00	100.00
	18.837	16.447	46814	8245	1.0	0.67	132.88- 172.88	145.28
	20.573	19.167	29309	14651	0.88	0.67	77.97- 117.97	90.95
			Average of Peak Amounts =		1.0	0.88		

12/11/02 JDL

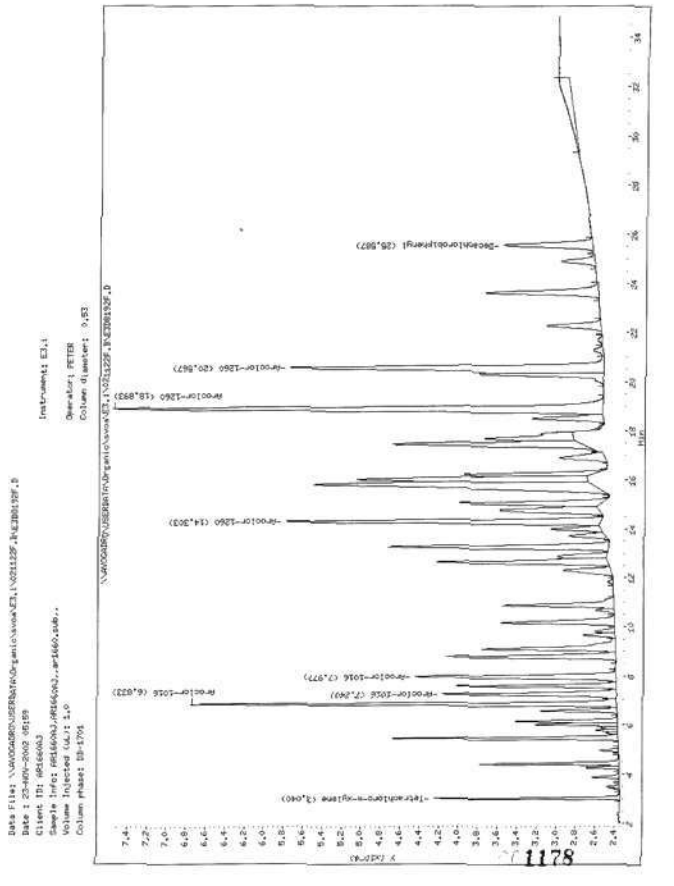
001176

Data File: E3D8177F.D
Report Date: 26-Nov-2002 14:58

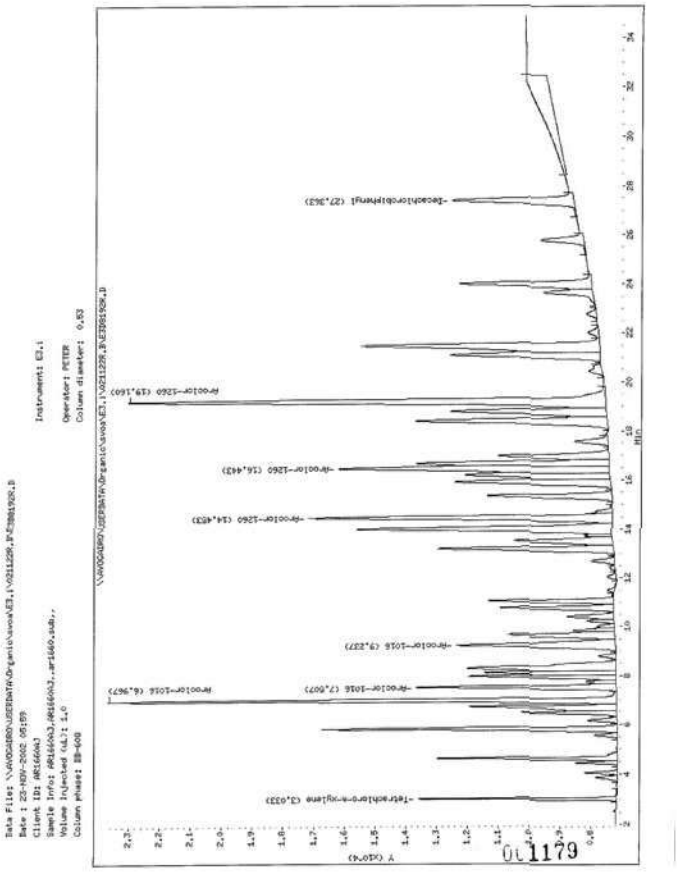
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

001177



1178



Data File: E3D8192F.D
Report Date: 26-Nov-2002 14:58

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3D8192F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3D8192R.D
Inj Date : 23-NOV-2002 05:59
Sample Info: AR1660AJ,AR1660AJ,,ar1660.sub,,
Misc Info :
Cal Date : 25-NOV-2002 09:31
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021122R.B\E3_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.040	3.033	19035	6415	0.018	0.018		100.00(a)
Aroclor-1016	7.240	9.237	17879	5132	1.1	0.92	80.00- 120.00	100.00
	6.833	6.967	43677	16496	1.1	0.94	225.71- 265.71	264.39
	7.977	7.507	20560	6479	1.1	0.92	96.07- 136.07	115.00
			Average of Peak Amounts =		1.1	0.93		
Decachlorobiphenyl	25.587	27.363	9130	3845	0.019	0.020		100.00(a)
Aroclor-1260	14.303	14.453	32301	9835	1.1	0.94	80.00- 120.00	100.00
	18.893	16.443	50202	8777	1.1	0.93	132.88- 172.88	155.42
	20.567	19.160	31204	15478	1.1	0.93	77.97- 117.97	89.70
			Average of Peak Amounts =		1.1	0.93		

SZ 11/26/02

Data File: E3D8192F.D
Report Date: 26-Nov-2002 14:58

QC Flag Legend

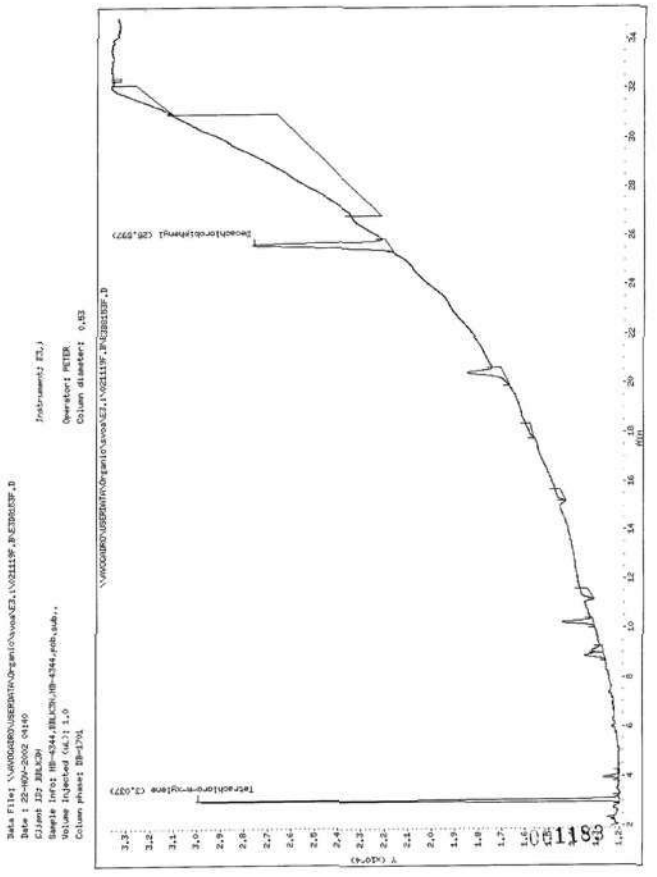
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

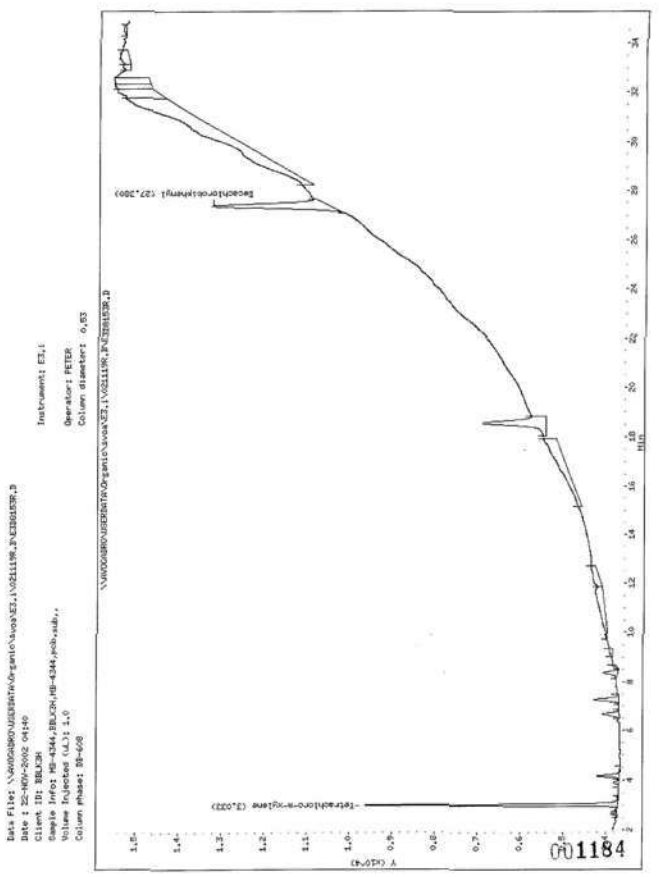
CLIENT SAMPLE NO.
BBLK3H

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: MB-4344
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8153F
% Moisture: _____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U



001183



001184

Data File: E3D8153F.D
Report Date: 26-Nov-2002 12:28

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119F.B\E3D8153F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119R.B\E3D8153R.D
Inj Date : 22-NOV-2002 04:40
Sample Info: MB-4344,BBLK3H,MB-4344,pcb.Sub,,
Misc Info :
Cal Date : 22-NOV-2002 16:05
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	300.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.037	3.033	17888	5913	0.57	0.55		100.00
Decachlorobiphenyl	28.597	27.380	5849	2758	0.42	0.46		100.00(M)

MJ SE 11/26/02

QC Flag Legend

M - Compound response manually integrated.

SE 11/26/02

001185

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

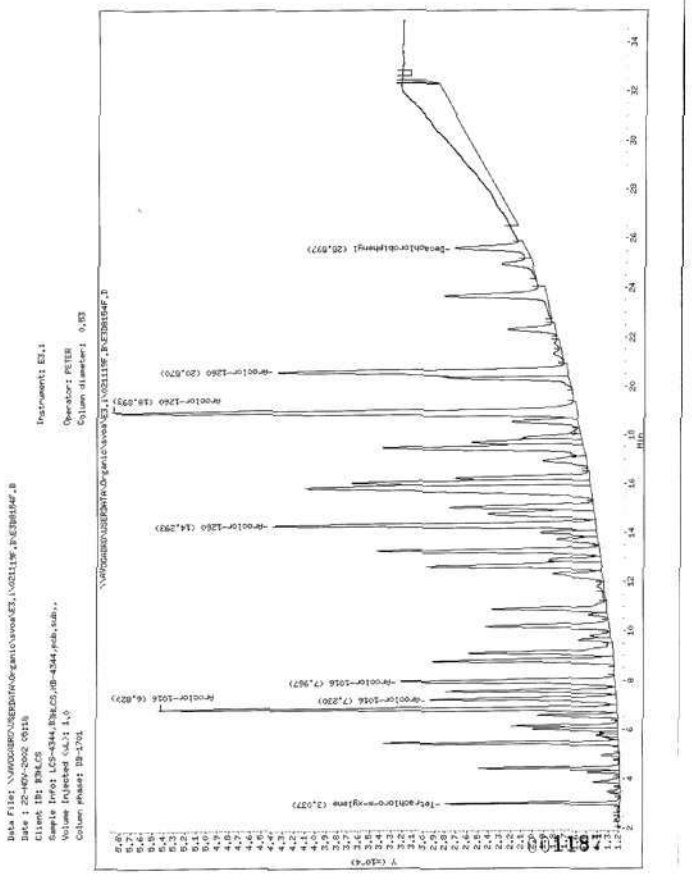
CLIENT SAMPLE NO.
B3HLCS

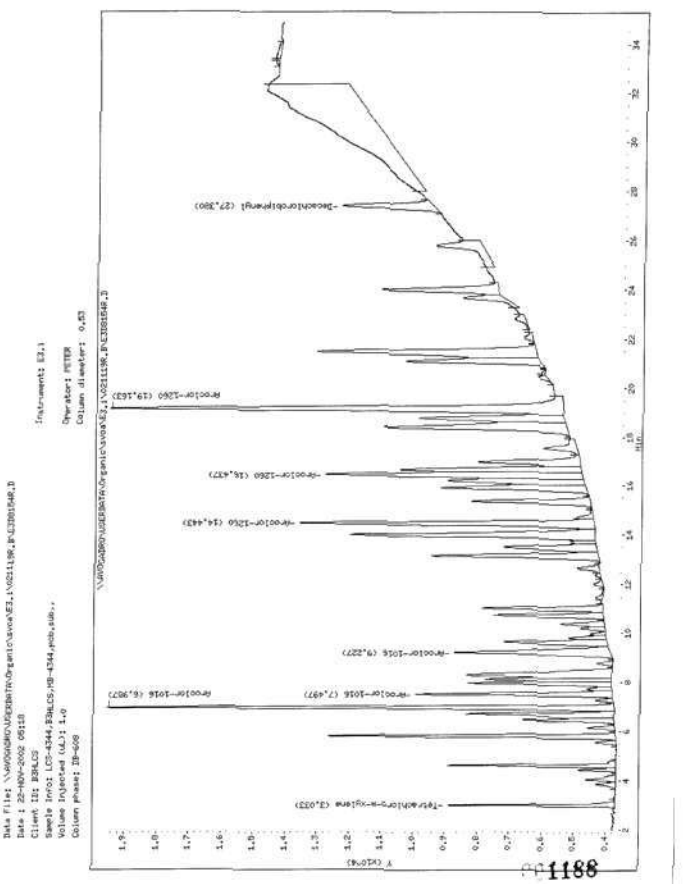
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (soil/water) WATER Lab Sample ID: LCS-4344
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E3D8154F
% Moisture: _____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	29	
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	28	

FORM I PCB

001186





Data File: E3D8154F.D
Report Date: 26-Nov-2002 12:27

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119F.B\E3D8154F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119R.B\E3D8154R.D
Inj Date : 22-NOV-2002 05:18
Sample Info: LCS-4344,B3HLCS,MB-4344,pcb.sub,,
Misc Info :
Cal Date : 22-NOV-2002 16:05
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	300.000	Volume of sample extracted (ml)
Vi	2.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.027	3.033	15999	5178	0.51	0.48		100.00
Decachlorobiphenyl	25.597	27.380	6461	2674	0.46	0.48		100.00
Aroclor-1016	7.230	9.227	17090	4869	36	29	80.00- 120.00	100.00
	6.827	6.957	42188	15754	36	30	229.34- 265.24	268.96
	7.947	7.457	19698	6119	36	29	95.69- 135.69	115.26
			Average of Peak Amounts =		36	29		
Aroclor-1260	14.293	14.443	29778	9156	33	29	80.00- 120.00	100.00
	18.833	16.437	42788	7985	30	28	134.07- 174.07	143.69
	20.570	19.163	26735	14079	30	28	80.39- 120.93	89.75
			Average of Peak Amounts =		31	28		

SZ 11/30/02

001189

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

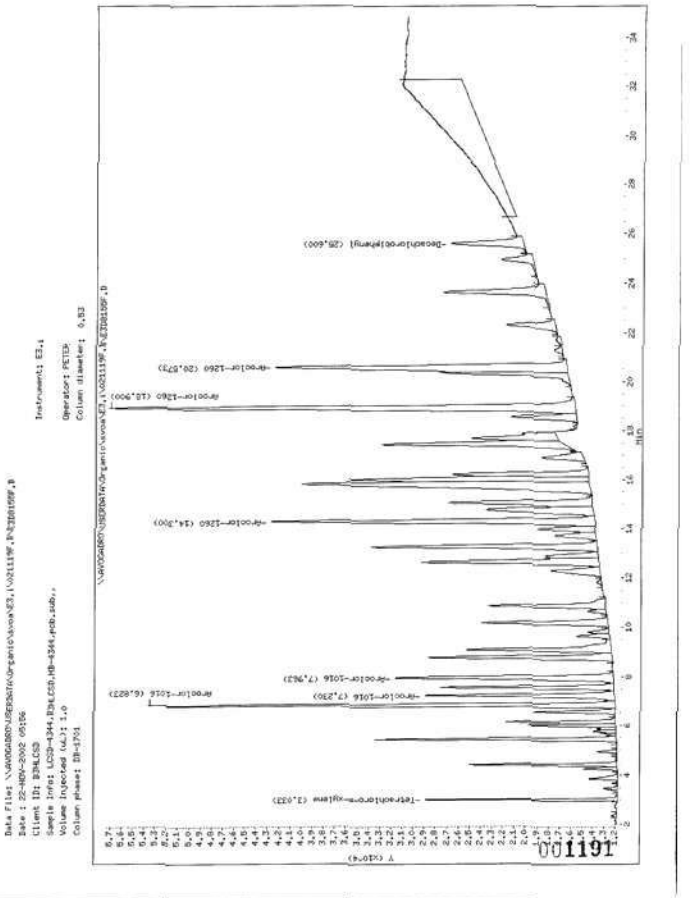
CLIENT SAMPLE NO.: B3HLCSD

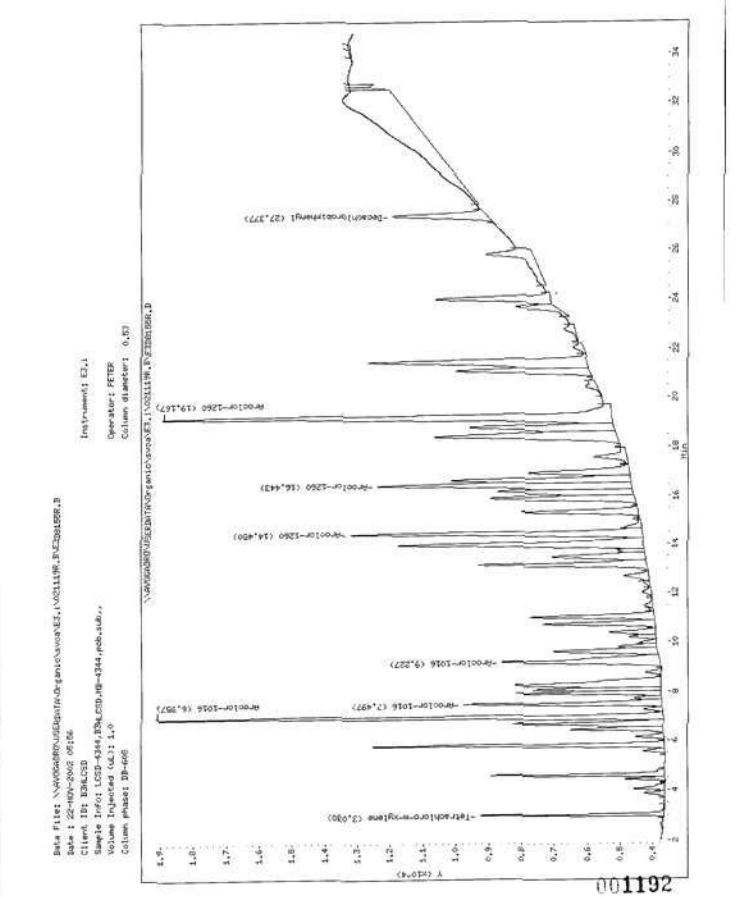
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix: (Soil/water) WATER Lab Sample ID: LCSD-4344
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: B3D8155F
% Moisture: _____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:11/20/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/22/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	29	
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	27	

FORM I PCB

001190





Data File: B3D8155F.D
Report Date: 26-Nov-2002 12:27

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119F.B\E3D8155F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119R.B\E3D8155R.D
Inj Date : 22-NOV-2002 05:56
Sample Info: LCSD-4344,B3HLCSD,MB-4344,pcb.sub,,
Misc Info :
Cal Date : 22-NOV-2002 16:05
Operator : PETER
Inst ID : E3.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119F.B\E3_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E3.i\021119R.B\E3_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : DB-1701
Col #2 Phase : DB-608

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	*10000.000*	*Volume of final extract (uL)*
Vo	300.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	3.033	3.030	17076	5575	0.56	0.52		100.00
Decachlorobiphenyl	28.600	27.377	6407	2872	0.46	0.48		100.00
Aroclor-1016	7.230	7.227	16793	4812	35	29	80.00- 120.00	100.00
	6.823	6.957	41546	15452	36	28	225.24- 265.24	247.46
	7.963	7.497	19366	6035	35	28	95.69- 135.69	115.32
			Average of Peak Amounts =		35	28		
Aroclor-1260	14.300	14.680	28813	8995	31	28	80.00- 120.00	100.00
	18.900	16.443	61370	7726	29	27	134.07- 174.07	143.58
	20.573	19.167	26975	13680	28	27	80.39- 120.39	80.14
			Average of Peak Amounts =		29	27		

SC 11/26/02

001193

MITKEM CORPORATION: Non-Volatile TCLP/SPLP Extraction Logbook

Date	Sample ID	Initial pH	pH After 3.5mL 1N HCl	Extraction Fluid	Sample Weight (g)	Fluid Volume (mL)	Tumble Start Time/Date	Tumble End Time/Date	Final pH	Comments	Analyst
11-13-02	MB-4344	—	—	SPLP	20.0	400ml	13:00 11-13-02	09:00 11-14-02	≈4.2	1	BP
	LCS-4344				20.0						
	LCSD-4344				20.0						
	A1687 002				20.2						
	029				20.4						
	030				20.5						
	031				20.3						
	043				20.2						
	043				20.1						
	050				20.4						
	054				20.3						
	055				20.5						
	056				20.5						
	057				20.5						
	058				20.8						
	059	—	—	SPLP	20.2	400ml	13:00 11-13-02	09:00 11-14-02	≈4.2		BP
	A1687										

11-14-02

Reviewed By: _____

A057

001194

DAT00171-04
P-21

MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : PEST/PCB

Project(s): A1627 | Time Started: 15:00 | Time Ended: 16:00

Date: 11-20-02 | Blank ID: MB-4344

Sample ID	Client ID	Analysis: SPLP PCB / LCS ID / LCSD-4344	Method & SOP #	Analyst	Surrogate Spike Added	Matrix Spike Added	Spiked By	Emulsion	Extraction Date / Analyst	Solvent: 1:1 DCM:ACE	Final Concentration Date / Analyst	Final Concentration Volume	Acid / Copper Cleanup Date / Analyst	Date Extract Trans.
MB-4344	300													
LCS-4344														
LCSD-4344														
A1627-02														
-29														
-30														
-31														
-42														
-43														
-50														
-54														
-55														
-56														
-57														
-58	300													
A1627-59														

Matrix: Aqueous / Soil / Wipe / Oil / Other: | Solvent: 1:1 DCM:ACE | Comments: | Water Bath Temp. 40C | Sonicator Tuned? Yes/No | Logbook Page: | Reviewed By: | Logbook ID: 60.0146-1/02

000095

001195

MITKEM CORPORATION EXTRACTS TRANSFER LOGBOOK: PESTICIDES/PCB ANALYSIS

Date Transferred from Prep Lab	Lab ID		Transferred by	Received by	Storage Location	Comments
11-20-02	A1627	030	SP	→	RG	SPLP
		031				
		042				
		043				
		050				
		054				
		055				
		056				
		057				
	↓	058				↓
	A1627	059				SPLP
	MB	4360				
	LCS	4360				
	LCSD	4360				
	A1634	001				
	A1634	003				
	A1636	015				
	A1660	010				
		011				
		013				
	↓	013				
	A1660	014				
	MB	4393				
	LCS	4393				
	LCSD	4393				
	LCS	4394				
	LCSD	4394	↓	↓	↓	
11-20-02	A1675	010	SP	→	RG	
11-21-02	MB 4298		TS	→	RG	
	A1619	001				
		001MS				
		001MSD				
	↓	003	↓	↓	↓	
11-21-02	A1619	005	TS	→	RG	

Logbook ID: 60.0132-1/02

Reviewed by → 11/21/02 | Logbook page 000008

001196

MITKEM CORPORATION EXTRACTS TRANSFER LOGBOOK: PESTICIDES/PCB ANALYSIS

Date Transferred from Prep Lab	Lab ID		Transferred by	Received by	Storage Location	Comments
11-20-02	MB-4422		JC	→	RG	
	LCS-4422					
	LCSD-4422					
	A1698	-001				
	A1698	007				
11-20-02	A1698	003	JC	→	RG	
11-20-02	MB-4345		PM	→	RG	
	LCS-4345					
	A1626-01					
		-02				
		-03				
		-03MS				
	↓	-03MSD				
	A1636	-04				
	MB-4084					
	LCS-4084					
	A1561-01					
		-02				
		-03				
		-03MS				
↓	↓	-03MSD				
11-20-02	A1561	-04	PM	→	RG	
	MB	4280	SP	→	RG	
	LCS	4280				
	LCSD	4280				
	A1627	007				
		013				
	↓	035				
	A1627	051				
	MB	4344				SPLP
	LCS	4344				↓
	LCSD	4344				
	A1627	002				
11-20-02	A1627	029	SP	→	RG	SPLP

Logbook ID: 60.0132-1/02

Reviewed by → 11/21/02 | Logbook page 000007

001197

MITKEM CORPORATION - PEST/PCB RUN LOGBOOK: INSTRUMENT E3

Sequence 021111 | Method PCB | ICAL Date 11/11

Date	Sample ID	Client ID	File Name	Dilution	F	R	Comments	Analyst
11/11	PRIME		E3D79	10				→
	PRIME			21				
	AR1232A	L3		22			I-Cal OK.	
	AR1242A	L1		23			F: linear	
		L2		24			R: average (except for 23)	
		L3		25				
		L4		26				
	AR1242A	L5		27				
	AR1248A	L1		28				
		L2		29				
		L3		30				
		L4		31				
	AR1248A	L5		32				
	AR1254A	L1		33				
		L2		34				
		L3		35				
		L4		36				
	AR1254A	L5		37				
	AR1660A	L1		38				
		L2		39				
		L3		40				
		L4		41				
	AR1660A	L5		42				
	AR1660	S5		43				
	PIBLK			44				
	MB-42	25		45	✓	✓		
	LCS-42	25		46	✓			
	A1606-	01A		47	✓		Class:	
	↓	02A		48	✓		↓	
11/11	A1606-	03A	E3D79	49	✓		Class	→

Standard ID's

Comments

Logbook ID 60.0146-1/02 Reviewed by → 11/12/02 | Logbook Page # 000018

001198

MITKEM CORPORATION - PEST/PCB RUN LOGBOOK: INSTRUMENT E3

Sequence: 021119 | Method: PCB | ICAL Date: 11/1

Date	Sample ID		Client ID	File Name	Dilution	F	R	Comments	Analyst
11/20	ARR42	AF		E3D81	25	✓	✓		~
	ARR48	↓			26	↑	✓		
	ARR54				27	↑	✓		
	AR1660	AF			28	✓	✓		
	PIBLK				29				SZ
	MB-4360				30		✓		
	LCS-43 61				31		✓		
	LCSD -4361				32		✓		
	A1634-	01			33	✓	✓		
		02			34	TCX✓	TCX✓	DCAL on Rtn Front TCX✓(F)	
	A1656-	15			35		✓	DCB✓ for Rtn	
	MB-4393				36		✓		
	LCS-4393				37		✓		
	LCSD-4393				38		✓		
	A1675-	10			39	✓	✓		
	PIBLK				40				
	AR1248	AG			41	✓	✓		
	1248	↓			42	↑	✓		
	1254	↓			43	↑	✓		
	AR1660	AG			44	✓	✓		
	PIBLK				45				
	A1671-	01			46	re-inject		TCX-ok! DCB✓(front) BOTH on rtn	
	A1660-	10			47	✓	✓	A #10 zero	
		11			48	carry over = rerun #10			
		12			49	✓		DCA✓ TCX-ok!	
		13			50	✓		TCX-ok! DCA✓	
	A1660-	14			51	✓	✓		
	PIBLK				52				
	MB-4344				53		✓		
11/20	LCS-4344			E3D81	54		✓		SZ

Standard ID's

Comments

Logbook ID 60.0146-1/02 Reviewed by SZ 11/20/02 Logbook Page # 001199 000025

MITKEM CORPORATION - PEST/PCB RUN LOGBOOK: INSTRUMENT E3

Sequence: 021119 | Method: 8082 PCB | ICAL Date: 11/18/02

Date	Sample ID		Client ID	File Name	Dilution	F	R	Comments	Analyst
11/22	LCS-4344			E3D81	55	✓		SPLP	SZ
	PIBLK				56				
	AR1248	AH			57	✓	✓		
	1248				58	↑	✓		
	1254	↓		↓	59	↑	✓		↓
11/22	AR1660	AH		E3D81	60	✓	✓		SZ
	PIBLK				61				
	A1660-	10			62	✓		bump	
	A1671-	01			63			TCX-ok! DCB? F	
	PIBLK				64				
	A1627-	02			65	✓		SPLP TCX-ok DCB✓ Rtn-ok!	
		29			66	✓			
		30			67	✓			
		31			68	✓			
		42			69	✓			
		43			70	✓		SZ 11/20/02	
		50			71	✓		02# (11/27/02 SZ)	
	A1627-	54			72	✓	✓		
	PIBLK				73				
	AR1248	AI			74	✓	✓		
	1248				75	↑	✓		
	1254	↓			76	↑	✓		
	AR1660	AI			77	✓	✓		
	PIBLK				78				
	MB-4464				79		✓	soil 1704	
	LCS-4464				80		✓	↓	
	LCSD-4464				81		✓		
	A1627-	55			82		✓	SPLP	
		56		↓	83		✓	↓	↓
11/22	A1627-	57		E3D81	84		✓		SZ

Standard ID's

Comments

Logbook ID 60.0146-1/02 Reviewed by SZ 11/29/02 Logbook Page # 001200 000026

MITKEM CORPORATION - PEST/PCB RUN LOGBOOK: INSTRUMENT E3

Sequence: 11/22/02 | Method: PCB | ICAL Date: 11/14/02

Date	Sample ID		Client ID	File Name	Dilution	F	R	Comments	Analyst
11/22	A1627-	58		E3D81	85		✓	SPLP	SZ
	A1627-	59			86		✓	↓	
	A1704-	01			87		✓	soil Sun↑ clean	
	PIBLK				88				
	AR1248	AJ			89	↑	✓		
	1248	↓			90	↑	✓		
	1254	↓			91	↑	✓		
	AR1660	AJ			92	✓	✓		
	PIBLK				93				
	MB-4333				94		✓	water 1627	
	LCS-4333				95		✓	↓	
	LCSD-4333				96		✓		
	MB-4280				97		✓		
	LCS-4280				98		✓		
	LCSD-4280			E3D81	99		✓	↓	
	A1627-	07		E3D82	00		✓	water	
		13			01		✓	↓	
	↓	25		↓	02		✓		
	A1627-	51			03		✓		
	PIBLK				04		✓		
	AR1248	AK			05	✓	✓		
	1248				06	↑	✓		
	1254				07	✓	✓		
	AR1660	AK			08	✓	✓		
	PIBLK				09		✓		
	A1627-	36			10		✓		
	A1627-	37			11		✓		
	PIBLK				12				
	AR1248	AL		↓	13	✓	✓		
11/22	AR1248	AL		E3D82	14	✓	✓		SZ

Standard ID's

Comments

001201

Logbook ID 60.0146-1/02 Reviewed by SZ 11/29/02 Logbook Page # 000027

MITKEM CORPORATION: Sample Receipt Tracking Logbook

Project	Date Received	Client	Storage Location	#s/ Analyst/ Date In	#s/ Analyst/ Date Out	#s/ Analyst/ Date In	#s/ Analyst/ Date Out	#s/ Analyst/ Date In	#s/ Analyst/ Date Out	Dispose After	Date Disposed
A1626	11-8-02	Louis Berger	H2	01-29	01-29					1-8-03	
A1627	11-8-02	HEP	SV3 – R1A1 MS H1 EH	02, 03, 04, 07, 13, 25, 51	02, 03, 04, 07, 13, 25, 51	Empty 89	89 11/11			2-8-03	
A1628	11-8-02	WATER MARK	UOA	01-07						1-8-03	
A1629	11-9-02	TETRA TECH	UOA	01-03	02-03					2-9-03	
A1630	11-9-02	TETRA TECH	UOA	01-08						2-9-03	

Reviewed By

Logbook page 78

Logbook ID 30.0187-1/02

MITKEM CORPORATION

* Metals *

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

SOW No.: ILM04.0

EPA Sample No.	Lab Sample ID
12SSTB1102	A1627-46A
12SSTB1802	SPLPA1627-09A
12SSTB1802	A1627-09A
12SSTB902	SPLPA1627-47A
12SSTB902	A1627-47A
12SSTB902D	A1627-47AD
12TB1068	A1627-03C
12TB1524	A1627-02C
13SSTB2413	A1627-30C
13SSTB3124	A1627-31C
13SSTB3435	A1627-29C
AOC112E1	A1627-07B
AOC13E2	A1627-25B
AOC2BB1	A1627-36A
AOC2BB2	A1627-37A
AOC2E3	A1627-13B
AOC2E4	A1627-51B

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES

If yes - were raw data generated before application of background corrections ? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name:

Date: 12/18/02 Title:

COVER PAGE - IN SW846

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO. 12SSTB1102

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix (soil/water): SOIL Lab Sample ID: A1627-46A

Level (low/med): MED Date Received: 11/08/02

% Solids: 96.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9520			P
7440-36-0	Antimony	1.0	B		P
7440-38-2	Arsenic	2.9			P
7440-39-3	Barium	81.9			P
7440-41-7	Beryllium	0.32			P
7440-43-9	Cadmium	0.28			P
7440-70-2	Calcium	13700			P
7440-47-3	Chromium	19.7			P
7440-48-4	Cobalt	6.7			P
7440-50-8	Copper	18.4			P
7439-89-6	Iron	12400			P
7439-92-1	Lead	7.9			P
7439-95-4	Magnesium	5440			P
7439-96-5	Manganese	221			P
7439-97-6	Mercury	0.015	U		CV
7440-02-0	Nickel	10.6			P
7440-09-7	Potassium	2710			P
7782-49-2	Selenium	0.36	U		P
7440-22-4	Silver	0.089	U		P
7440-23-5	Sodium	261			P
7440-28-0	Thallium	1.1			P
7440-62-2	Vanadium	31.9			P
7440-66-6	Zinc	30.5			P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO. 12SSTB1802

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix (soil/water): WATER Lab Sample ID: SPLPA1627-09A

Level (low/med): MED Date Received: 11/08/02

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	1.3	B		CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

SPLP_METALS_FOR_SAMPLE_12SSTB1802

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
12SSTB1802

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix (soil/water): SOIL Lab Sample ID: A1627-09A
Level (low/med): MED Date Received: 11/08/02
% Solids: 89.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.096			CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

001207

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
12SSTB902

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix (soil/water): WATER Lab Sample ID: SPLPA1627-47A
Level (low/med): MED Date Received: 11/08/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:
SPLP_METALS_FOR_SAMPLE_12SSTB902

FORM I - IN SW846

001208

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
12SSTB902

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix (soil/water): SOIL Lab Sample ID: A1627-47A
Level (low/med): MED Date Received: 11/08/02
% Solids: 93.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel	9.1			P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

001209

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
12TB1068

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix (soil/water): SOIL Lab Sample ID: A1627-03C
Level (low/med): MED Date Received: 11/08/02
% Solids: 91.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7440			P
7440-36-0	Antimony	0.15	U		P
7440-38-2	Arsenic	1.8			P
7440-39-3	Barium	30.6			P
7440-41-7	Beryllium	0.24	B		P
7440-43-9	Cadmium	0.18	B		P
7440-70-2	Calcium	2820			P
7440-47-3	Chromium	159			P
7440-48-4	Cobalt	3.4			P
7440-50-8	Copper	8.5			P
7439-89-6	Iron	12000			P
7439-92-1	Lead	4.7			P
7439-95-4	Magnesium	2450			P
7439-96-5	Manganese	107			P
7439-97-6	Mercury	0.016	U		CV
7440-02-0	Nickel	9.5			P
7440-09-7	Potassium	1030			P
7782-49-2	Selenium	0.39	U		P
7440-22-4	Silver	0.098	U		P
7440-23-5	Sodium	731			P
7440-28-0	Thallium	0.65			P
7440-62-2	Vanadium	34.1			P
7440-66-6	Zinc	16.8			P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

001210

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
12TB1524

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix (soil/water): SOIL Lab Sample ID: A1627-02C
Level (low/med): MED Date Received: 11/08/02
% Solids: 87.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12000			P
7440-36-0	Antimony	0.46	B		P
7440-38-2	Arsenic	4.8			P
7440-39-3	Barium	61.5			P
7440-41-7	Beryllium	0.11	U		P
7440-43-9	Cadmium	0.35			P
7440-70-2	Calcium	10600			P
7440-47-3	Chromium	22.4			P
7440-48-4	Cobalt	8.8			P
7440-50-8	Copper	32.0			P
7439-89-6	Iron	15800			P
7439-92-1	Lead	11.9			P
7439-95-4	Magnesium	10100			P
7439-96-5	Manganese	250			P
7439-97-6	Mercury	0.032	B		CV
7440-02-0	Nickel	12.1			P
7440-09-7	Potassium	3510			P
7782-49-2	Selenium	0.43	U		P
7440-22-4	Silver	0.11	U		P
7440-23-5	Sodium	499			P
7440-28-0	Thallium	0.21	U		P
7440-62-2	Vanadium	32.4			P
7440-66-6	Zinc	46.8			P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

001211

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
13SSTB2413

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix (soil/water): SOIL Lab Sample ID: A1627-30C
Level (low/med): MED Date Received: 11/08/02
% Solids: 85.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16200			P
7440-36-0	Antimony	1.4	B		P
7440-38-2	Arsenic	3.9			P
7440-39-3	Barium	134			P
7440-41-7	Beryllium	0.64			P
7440-43-9	Cadmium	0.36			P
7440-70-2	Calcium	897			P
7440-47-3	Chromium	25.7			P
7440-48-4	Cobalt	7.3			P
7440-50-8	Copper	10.8			P
7439-89-6	Iron	19700			P
7439-92-1	Lead	9.1			P
7439-95-4	Magnesium	5270			P
7439-96-5	Manganese	471			P
7439-97-6	Mercury	0.019	B		CV
7440-02-0	Nickel	12.4			P
7440-09-7	Potassium	1330			P
7782-49-2	Selenium	0.41	U		P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	355			P
7440-28-0	Thallium	0.75			P
7440-62-2	Vanadium	35.8			P
7440-66-6	Zinc	31.0			P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

001212

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
13SSTB3124

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix (soil/water): SOIL Lab Sample ID: A1627-31C
Level (low/med): MED Date Received: 11/08/02
% Solids: 94.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13000			P
7440-36-0	Antimony	1.1	B		P
7440-38-2	Arsenic	4.1			P
7440-39-3	Barium	150			P
7440-41-7	Beryllium	0.58			P
7440-43-9	Cadmium	0.33			P
7440-70-2	Calcium	2450			P
7440-47-3	Chromium	30.1			P
7440-48-4	Cobalt	6.3			P
7440-50-8	Copper	18.2			P
7439-89-6	Iron	14500			P
7439-92-1	Lead	11.7			P
7439-95-4	Magnesium	5970			P
7439-96-5	Manganese	322			P
7439-97-6	Mercury	0.021	B		CV
7440-02-0	Nickel	11.9			P
7440-09-7	Potassium	3040			P
7782-49-2	Selenium	0.40	U		P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	137	B		P
7440-28-0	Thallium	1.2			P
7440-62-2	Vanadium	35.0			P
7440-66-6	Zinc	38.4			P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

001213

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
13SSTB3435

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627
Matrix (soil/water): SOIL Lab Sample ID: A1627-29C
Level (low/med): MED Date Received: 11/08/02
% Solids: 84.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	20400			P
7440-36-0	Antimony	0.87	B		P
7440-38-2	Arsenic	4.7			P
7440-39-3	Barium	197			P
7440-41-7	Beryllium	0.12	U		P
7440-43-9	Cadmium	0.44			P
7440-70-2	Calcium	2350			P
7440-47-3	Chromium	33.9			P
7440-48-4	Cobalt	9.9			P
7440-50-8	Copper	13.0			P
7439-89-6	Iron	23000			P
7439-92-1	Lead	10.1			P
7439-95-4	Magnesium	7420			P
7439-96-5	Manganese	535			P
7439-97-6	Mercury	0.026	B		CV
7440-02-0	Nickel	14.3			P
7440-09-7	Potassium	2160			P
7782-49-2	Selenium	0.47	U		P
7440-22-4	Silver	0.12	U		P
7440-23-5	Sodium	387			P
7440-28-0	Thallium	0.23	U		P
7440-62-2	Vanadium	47.0			P
7440-66-6	Zinc	46.7			P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

001214

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC112E1

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix (soil/water): WATER Lab Sample ID: A1627-07B

Level (low/med): MED Date Received: 11/08/02

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12.0	U		P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	8.1	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	76.0	U		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.7	B		P
7439-89-6	Iron	35.0	U		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	23.0	U		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.16	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	89.0	U		P
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	153	B		P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

001215

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC13E2

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix (soil/water): WATER Lab Sample ID: A1627-25B

Level (low/med): MED Date Received: 11/08/02

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12.0	U		P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	6.4	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	76.0	U		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	35.0	U		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	23.0	U		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	89.0	U		P
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	118	U		P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

001216

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC2BB1

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix (soil/water): WATER Lab Sample ID: A1627-36A

Level (low/med): MED Date Received: 11/08/02

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12.0	U		P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	8.1	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	76.0	U		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	4.4	B		P
7439-89-6	Iron	35.0	U		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	23.0	U		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	118	B		P
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	741	B		P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

001217

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC2BB2

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix (soil/water): WATER Lab Sample ID: A1627-37A

Level (low/med): MED Date Received: 11/08/02

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12.0	U		P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	7.3	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	76.0	U		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	4.0	B		P
7439-89-6	Iron	35.0	U		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	23.0	U		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	140	B		P
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	918	B		P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

001218

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC2E3

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix (soil/water): WATER Lab Sample ID: A1627-13B

Level (low/med): MED Date Received: 11/08/02

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12.0	U		P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	7.3	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	76.0	U		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	35.0	U		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	23.0	U		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.15	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	89.0	U		P
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	124	B		P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

001219

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC2E4

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix (soil/water): WATER Lab Sample ID: A1627-51B

Level (low/med): MED Date Received: 11/08/02

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12.0	U		P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	5.3	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	76.0	U		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	35.0	U		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	23.0	U		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	89.0	U		P
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	118	U		P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

001220

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Initial Calibration Source: INORG_VENTURES

Continuing Calibration Source: INORG_VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum	10000.0	9870.18	98.7	10000.0	9947.16	99.5	9712.60	97.1	P
Antimony	500.0	516.14	103.2	500.0	521.19	104.2	504.58	100.9	P
Arsenic	500.0	512.92	102.6	500.0	522.31	104.5	512.10	102.4	P
Barium	10000.0	10507.81	105.1	10000.0	10647.31	106.5	10428.58	104.3	P
Beryllium	250.0	248.35	99.3	250.0	252.42	101.0	245.75	98.3	P
Cadmium	250.0	250.48	100.2	250.0	252.60	101.0	247.17	98.9	P
Calcium	25000.0	24347.03	97.4	25000.0	24697.66	98.8	23977.63	95.9	P
Chromium	1000.0	999.26	99.9	1000.0	1006.84	100.7	984.32	98.4	P
Cobalt	2500.0	2545.91	101.8	2500.0	2548.58	101.9	2492.60	99.7	P
Copper	1250.0	1258.64	100.7	1250.0	1261.85	100.9	1232.02	98.6	P
Iron	5000.0	5047.75	101.0	5000.0	5100.99	102.0	5000.23	100.0	P
Lead	500.0	507.29	101.5	500.0	513.40	102.7	502.63	100.5	P
Magnesium	25000.0	25264.33	101.1	25000.0	25538.09	102.2	25045.03	100.2	P
Manganese	2500.0	2524.84	101.0	2500.0	2532.13	101.3	2474.77	99.0	P
Mercury	5.0	4.82	96.4	5.0	4.83	96.6	4.84	96.8	CV
Nickel	2500.0	2507.70	100.3	2500.0	2510.76	100.4	2452.13	98.1	P
Potassium	25000.0	23813.85	95.3	25000.0	22959.24	91.8	23119.28	92.5	P
Selenium	500.0	489.57	97.9	500.0	498.72	99.7	485.69	97.1	P
Silver	1250.0	1217.99	97.4	1250.0	1221.08	97.7	1189.78	95.2	P
Sodium	25000.0	25022.90	100.1	25000.0	23744.49	95.0	23329.97	93.3	P
Thallium	500.0	507.49	101.5	500.0	512.51	102.5	499.38	99.9	P
Vanadium	2500.0	2499.58	100.0	2500.0	2523.67	100.9	2465.09	98.6	P
Zinc	2500.0	2546.06	101.8	2500.0	2566.67	102.7	2517.91	100.7	P
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

Form II (PART 1) - IN SW846

001221

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Initial Calibration Source:

Continuing Calibration Source: INORG_VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum				10000.0	10043.71	100.4	10228.05	102.3	P
Antimony				500.0	521.95	104.4	522.91	104.6	P
Arsenic				500.0	521.38	104.3	526.70	105.3	P
Barium				10000.0	10711.16	107.1	10872.09	108.7	P
Beryllium				250.0	255.18	102.1	255.63	102.3	P
Cadmium				250.0	254.27	101.7	257.66	103.1	P
Calcium				25000.0	24644.75	98.6	24855.78	99.4	P
Chromium				1000.0	1015.90	101.6	1028.97	102.9	P
Cobalt				2500.0	2581.14	103.2	2609.60	104.4	P
Copper				1250.0	1276.08	102.1	1294.85	103.6	P
Iron				5000.0	5149.71	103.0	5237.56	104.8	P
Lead				500.0	513.55	102.7	519.59	103.9	P
Magnesium				25000.0	25715.65	102.9	26050.16	104.2	P
Manganese				2500.0	2562.44	102.5	2594.67	103.8	P
Mercury				5.0	4.91	98.2	4.84	96.8	CV
Nickel				2500.0	2541.76	101.7	2571.16	102.8	P
Potassium				25000.0	23112.58	92.5			P
Selenium				500.0	497.67	99.5	499.33	99.9	P
Silver				1250.0	1236.40	98.9	1253.29	100.3	P
Sodium				25000.0	23977.34	95.9			P
Thallium				500.0	512.71	102.5	517.03	103.4	P
Vanadium				2500.0	2542.09	101.7	2580.84	103.2	P
Zinc				2500.0	2585.75	103.4	2611.43	104.5	P
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

Form II (PART 1) - IN SW846

001222

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627_

Initial Calibration Source:

Continuing Calibration Source: INORG_VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	9956.24	99.6			P
Antimony				500.0	517.04	103.4			P
Arsenic				500.0	524.75	105.0			P
Barium				10000.0	10659.24	106.6			P
Beryllium				250.0	251.57	100.6			P
Cadmium				250.0	252.36	100.9			P
Calcium				25000.0	24699.15	98.8			P
Chromium				1000.0	1006.65	100.7			P
Cobalt				2500.0	2544.73	101.8			P
Copper				1250.0	1261.11	100.9			P
Iron				5000.0	5123.24	102.5			P
Lead				500.0	512.04	102.4			P
Magnesium				25000.0	25591.82	102.4			P
Manganese				2500.0	2530.91	101.2			P
Mercury				5.0	5.05	101.0			CV
Nickel				2500.0	2497.30	99.9			P
Potassium									
Selenium				500.0	495.67	99.1			P
Silver				1250.0	1214.93	97.2			P
Sodium									
Thallium				500.0	510.09	102.0			P
Vanadium				2500.0	2526.22	101.0			P
Zinc				2500.0	2567.32	102.7			P
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627_

Initial Calibration Source: INORG_VENTURES

Continuing Calibration Source: INORG_VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury	5.0	4.81	96.2	5.0	4.73	94.6	4.87	97.4	CV
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627_

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	12.0	U	12.0	U	17.5	B	13.6	B	12.000	U	P
Antimony	4.7	B	3.4	B	4.1	B	3.4	B	3.000	U	P
Arsenic	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Barium	3.0	U	3.0	U	3.0	U	3.0	U	3.720	B	P
Beryllium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Cadmium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Calcium	76.0	U	76.0	U	76.0	U	76.0	U	76.000	U	P
Chromium	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Cobalt	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Copper	4.3	B	2.0	U	2.0	U	2.0	U	2.000	U	P
Iron	35.0	U	35.0	U	35.0	U	35.0	U	35.000	U	P
Lead	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Magnesium	23.0	U	23.0	U	23.0	U	23.0	U	23.000	U	P
Manganese	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.100	U	CV
Nickel	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Potassium	159.7	B	89.0	U	89.0	U	89.0	U	171.480	B	P
Selenium	8.0	U	8.0	U	8.0	U	8.0	U	8.000	U	P
Silver	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Sodium	579.2	B	118.0	U	118.0	U	118.0	U	394.339	B	P
Thallium	4.0	U	4.0	U	4.0	U	4.0	U	4.000	U	P
Vanadium	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Zinc	8.0	U	8.0	U	8.0	U	8.0	U	8.000	U	P
Cyanide											

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627_

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			12.0	U	12.0	U			12.000	U	P
Antimony			3.0	U	3.3	B			3.000	U	P
Arsenic			3.0	U	3.0	U			3.000	U	P
Barium			3.0	U	3.0	U			6.445	B	P
Beryllium			2.0	U	2.0	U			2.000	U	P
Cadmium			2.0	U	2.0	U			2.000	U	P
Calcium			76.0	U	76.0	U			76.000	U	P
Chromium			3.0	U	3.0	U			3.000	U	P
Cobalt			3.0	U	3.0	U			3.000	U	P
Copper			2.0	U	2.0	U			2.000	U	P
Iron			35.0	U	35.0	U			35.000	U	P
Lead			1.0	U	1.0	U			1.000	U	P
Magnesium			23.0	U	23.0	U			23.000	U	P
Manganese			2.0	U	2.0	U			2.000	U	P
Mercury			0.1	U	0.1	U					CV
Nickel			1.0	U	1.0	U			1.000	U	P
Potassium									89.000	U	P
Selenium			8.0	U	8.0	U			8.000	U	P
Silver			2.0	U	2.0	U			2.000	U	P
Sodium									158.354	B	P
Thallium			4.0	U	4.0	U			4.000	U	P
Vanadium			3.0	U	3.0	U			3.000	U	P
Zinc			8.0	U	8.0	U			8.000	U	P
Cyanide											

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract: ___

Lab Code: MITKEM Case No.: ___ SAS No.: ___ SDG No.: A1627___

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead											
Magnesium											
Manganese											
Mercury											
Nickel									1.000	U	P
Potassium											
Selenium											
Silver											
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract: ___

Lab Code: MITKEM Case No.: ___ SAS No.: ___ SDG No.: A1627___

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum									0.600	U	P
Antimony									0.150	U	P
Arsenic									0.150	U	P
Barium									0.328	B	P
Beryllium									0.100	U	P
Cadmium									0.100	U	P
Calcium									3.800	U	P
Chromium									0.150	U	P
Cobalt									0.150	U	P
Copper									0.100	U	P
Iron									1.750	U	P
Lead									0.050	U	P
Magnesium									1.150	U	P
Manganese									0.129	B	P
Mercury									0.017	U	CV
Nickel									0.050	U	P
Potassium									4.450	U	P
Selenium									0.400	U	P
Silver									0.100	U	P
Sodium									5.900	U	P
Thallium									0.200	U	P
Vanadium									0.150	U	P
Zinc									0.400	U	P
Cyanide											

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract: ___

Lab Code: MITKEM Case No.: ___ SAS No.: ___ SDG No.: A1627___

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead											
Magnesium											
Manganese											
Mercury	0.1	U	0.1	U	0.1	U			0.017	U	CV
Nickel									1.000	U	P
Potassium											
Selenium											
Silver											
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: MITKEM_CORPORATION Contract: _____

Lab Code: MITKEM Case No.: ___ SAS No.: ___ SDG No.: A1627

ICP ID Number: OPTIMA_1A____ ICS Source: HIGH_PURITY_

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium		25000		22857.8	91.4		22589.1	90.4
Selenium								
Silver								
Sodium		50000		59488.1	119.0		59653.2	119.3
Thallium								
Vanadium								
Zinc								

U.S. EPA - CLP

4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

ICP ID Number: OPTIMA_2A ICS Source: HIGH_PURITY

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	485749	482300.3	96.5	498675	493447.8	98.7
Antimony		600		670.0	111.7		659.5	109.9
Arsenic		100		108.6	108.6		110.3	110.3
Barium		500		499.4	99.9		508.7	101.7
Beryllium		500		474.4	94.9		484.3	96.9
Cadmium		1000		891.5	89.2		905.3	90.5
Calcium	500000	500000	503192	502793.2	100.6	517903	513521.2	102.7
Chromium		500		461.7	92.3		469.6	93.9
Cobalt		500		438.1	87.6		440.9	88.2
Copper		500		510.1	102.0		513.1	102.6
Iron	200000	200000	171029	169829.2	84.9	175283	173337.7	86.7
Lead		500		458.1	91.6		467.2	93.4
Magnesium	500000	500000	470227	466101.3	93.2	482259	475786.0	95.2
Manganese		500		454.0	90.8		459.6	91.9
Mercury								
Nickel		1000		867.9	86.8		875.2	87.5
Potassium								
Selenium		500		502.6	100.5		499.7	99.9
Silver		200		198.8	99.4		201.0	100.5
Sodium								
Thallium		100		91.3	91.3		93.0	93.0
Vanadium		500		477.0	95.4		486.1	97.2
Zinc		1000		869.9	87.0		881.1	88.1

FORM IV - IN SW846

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.
12SSTB902D

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead								NR
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel		1.0000	U	1.0000	U			P
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

FORM VI - IN SW846

U.S. EPA - CLP

7
LABORATORY CONTROL SAMPLE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Solid LCS Source:

Aqueous LCS Source: HIGH_PURITY

Analyte	Aqueous (ug/L) True	Aqueous (ug/L) Found	Aqueous (ug/L) %R	Solid (mg/kg) True	Solid (mg/kg) Found	Solid (mg/kg) C	Solid (mg/kg) Limits	Solid (mg/kg) %R
Aluminum	9100.0	9138.7	100.4					
Antimony	455.0	535.1	117.6					
Arsenic	455.0	507.4	111.5					
Barium	9100.0	9422.4	103.5					
Beryllium	227.0	229.6	101.1					
Cadmium	227.0	245.7	108.2					
Calcium	22700.0	22405.7	98.7					
Chromium	910.0	917.9	100.9					
Cobalt	2270.0	2316.9	102.1					
Copper	1130.0	1150.7	101.8					
Iron	4550.0	4625.0	101.6					
Lead	455.0	489.0	107.5					
Magnesium	22700.0	22948.6	101.1					
Manganese	2270.0	2306.3	101.6					
Mercury	4.6	4.0	87.0					
Nickel	2270.0	2197.5	96.8					
Potassium	22700.0	21479.9	94.6					
Selenium	455.0	478.2	105.1					
Silver	1130.0	1119.4	99.1					
Sodium	22700.0	22204.4	97.8					
Thallium	455.0	491.1	107.9					
Vanadium	2270.0	2282.0	100.5					
Zinc	2270.0	2331.8	102.7					
Cyanide								

FORM VII - IN SW846

U.S. EPA - CLP

7
LABORATORY CONTROL SAMPLE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Solid LCS Source: ERA_LOT#802115

Aqueous LCS Source: HIGH_PURITY

Analyte	Aqueous (ug/L) True	Aqueous (ug/L) Found	Aqueous (ug/L) %R	Solid (mg/kg) True	Solid (mg/kg) Found	Solid (mg/kg) C	Solid (mg/kg) Limits	Solid (mg/kg) %R
Aluminum	9100.0	9065.4	99.6					
Antimony	455.0	526.5	115.7					
Arsenic	455.0	502.3	110.4					
Barium	9100.0	9357.7	102.8					
Beryllium	227.0	230.2	101.4					
Cadmium	227.0	242.9	107.0					
Calcium	22700.0	22104.7	97.4					
Chromium	910.0	908.0	99.8					
Cobalt	2270.0	2287.2	100.8					
Copper	1130.0	1142.7	101.1					
Iron	4550.0	4597.9	101.1					
Lead	455.0	484.8	106.5					
Magnesium	22700.0	22798.1	100.4					
Manganese	2270.0	2287.2	100.8					
Mercury	4.6	4.0	87.0	0.8	0.8	0.6	1.0	100.0
Nickel	2270.0	2271.3	100.1					
Potassium	22700.0	21245.1	93.6					
Selenium	455.0	472.1	103.8					
Silver	1130.0	1104.6	97.8					
Sodium	22700.0	21803.4	96.1					
Thallium	455.0	486.2	106.9					
Vanadium	2270.0	2270.1	100.0					
Zinc	2270.0	2316.3	102.0					
Cyanide								

FORM VII - IN SW846

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Solid LCS Source:

Aqueous LCS Source: HIGH_PURITY

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Mercury									
Nickel	2270.0	2245.4	98.9						
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Solid LCS Source: ERA_LOT#802115

Aqueous LCS Source: HIGH_PURITY

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	9100.0	9138.7	100.4	910.0	854.8		758.9	982.8	93.9
Antimony	455.0	535.1	117.6	45.5	54.2		38.9	60.2	119.1
Arsenic	455.0	507.4	111.5	45.5	50.4		35.4	57.8	110.8
Barium	9100.0	9422.4	103.5	910.0	911.3		810.8	1072.9	100.1
Beryllium	227.0	229.6	101.1	22.7	22.0		19.0	26.1	96.9
Cadmium	227.0	245.7	108.2	22.7	24.6		18.2	29.8	108.4
Calcium	22700.0	22405.7	98.7	2270.0	2077.7		1886.4	2526.5	91.5
Chromium	910.0	917.9	100.9	91.0	88.5		76.3	105.7	97.3
Cobalt	2270.0	2316.9	102.1	227.0	221.3		193.2	265.4	97.5
Copper	1130.0	1150.7	101.8	113.0	109.4		93.7	133.7	96.8
Iron	4550.0	4625.0	101.6	455.0	449.9		391.3	533.3	98.9
Lead	455.0	489.0	107.5	45.5	51.0		36.5	61.4	112.1
Magnesium	22700.0	22948.6	101.1	2270.0	2192.0		1920.4	2546.9	96.6
Manganese	2270.0	2306.3	101.6	227.0	223.4		195.2	267.4	98.4
Mercury	4.6	4.0	87.0	0.8	0.8		0.6	1.0	100.0
Nickel	2270.0	2197.5	96.8	227.0	217.1		192.0	262.9	95.6
Potassium	22700.0	21479.9	94.6	2270.0	2122.2		1718.4	2590.1	93.5
Selenium	455.0	478.2	105.1	45.5	44.9		34.6	56.4	98.7
Silver	1130.0	1119.4	99.1	113.0	105.6		87.8	132.6	93.5
Sodium	22700.0	22204.4	97.8	2270.0	2145.3		1784.2	2478.8	94.5
Thallium	455.0	491.1	107.9	45.5	49.8		35.3	61.3	109.5
Vanadium	2270.0	2282.0	100.5	227.0	220.8		189.3	261.5	97.3
Zinc	2270.0	2331.8	102.7	227.0	220.4		184.8	258.3	97.1
Cyanide									

U.S. EPA - CLP

9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

12SSTB902L

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Matrix (soil/water): WATER Level (low/med): MED

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt							NR
Copper							NR
Iron							NR
Lead							NR
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel	1.00	U	5.00	U			P
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

ICP ID Number: OPTIMA_2A Date: 02/01/02

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wavelength (nm)	Background	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.21		200	12.0	P
Antimony	206.83		60	3.0	P
Arsenic	188.98		10	3.0	P
Barium	233.53		200	3.0	P
Beryllium	313.11		5	2.0	P
Cadmium	226.50		5	2.0	P
Calcium	227.54		5000	76.0	P
Chromium	267.72		10	3.0	P
Cobalt	228.62		50	3.0	P
Copper	324.75		25	2.0	P
Iron	273.96		100	35.0	P
Lead	220.35		3	1.0	P
Magnesium	279.08		5000	23.0	P
Manganese	257.61		15	2.0	P
Mercury			0.2		NR
Nickel	231.60		40	1.0	P
Potassium			5000		NR
Selenium	196.03		5	8.0	P
Silver	328.07		10	2.0	P
Sodium			5000		NR
Thallium	190.80		10	4.0	P
Vanadium	292.40		50	3.0	P
Zinc	206.20		20	8.0	P
Cyanide			10		NR

Comments:

U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

ICP ID Number: OPTIMA_1A Date: 02/01/02

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.21		200	12.0	P
Antimony	206.83		60	3.0	P
Arsenic	188.98		10	3.0	P
Barium	233.53		200	3.0	P
Beryllium	313.11		5	2.0	P
Cadmium	226.50		5	2.0	P
Calcium			5000		NR
Chromium	267.72		10	3.0	P
Cobalt	228.62		50	3.0	P
Copper	324.75		25	2.0	P
Iron	273.96		100	35.0	P
Lead	220.35		3	1.0	P
Magnesium	279.08		5000	23.0	P
Manganese	257.61		15	2.0	P
Mercury			0.2		NR
Nickel	231.60		40	1.0	P
Potassium	766.49		5000	89.0	P
Selenium			5		NR
Silver			10		NR
Sodium	589.59		5000	118.0	P
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide			10		NR

Comments:

FORM X - IN SW846

U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

ICP ID Number: Date: 02/01/02

Flame AA ID Number: COMM_FIMS

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	253.70		0.2	0.1	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide			10		NR

Comments:

FORM X - IN SW846

U.S. EPA - CLP

11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

ICP ID Number: OPTIMA_2A Date: 05/08/02

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	CR
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	-0.0000034	-0.0000316	0.0003760	0.0000273	0.0093652
Arsenic	188.98	0.0000170	0.0000000	-0.0010476	0.0000000	-0.0966949
Barium	233.53	0.0000000	0.0000291	0.0004462	0.0000000	0.0004554
Beryllium	313.11	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0004203	0.0000000	0.0000000
Calcium	227.54	-0.0004572	0.0000000	0.0866899	0.0000000	0.0563810
Chromium	267.72	0.0000000	0.0000000	-0.0001255	0.0000000	0.0000000
Cobalt	228.62	-0.0000029	0.0000000	0.0001335	0.0000000	-0.0013519
Copper	324.75	0.0000081	0.0000283	-0.0014020	0.0000000	0.0000000
Iron	273.96	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	-0.0000778	-0.0000820	0.0001989	0.0000220	-0.0004088
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	-0.0000082	0.0000000	-0.0005196	0.0001687	-0.0014682
Mercury						
Nickel	*231.60*	*0.0000000*	*0.0000000*	*0.0000000*	*0.0000000*	*0.0000000*
Potassium						
Selenium	196.03	0.0000156	0.0000000	-0.0028380	-0.0000401	-0.0006459
Silver	328.07	0.0000000	0.0002155	-0.0023821	0.0000000	0.0002076
Sodium						
Thallium	190.80	0.0000416	0.0000350	-0.0002012	-0.0000956	0.0023091
Vanadium	292.40	0.0000000	0.0000000	0.0000830	0.0000000	-0.0206993
Zinc	206.20	-0.0000032	-0.0000397	-0.0001879	0.0006536	-0.0163199

Comments:

FORM XI (Part 1) - IN SW846

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

ICP ID Number: OPTIMA_2A Date: 05/08/02

Analyte	Wave-length (nm)	Interelement Correction Factors for: CU	MN	NI	TL	TL
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0004552	0.0013682	-0.0001954	-0.0074396	0.0008753
Arsenic	188.98	0.0000000	0.0007572	0.0000000	-0.0042750	0.0000000
Barium	233.53	0.0000000	0.0007443	-0.0011126	0.0000000	0.0000000
Beryllium	313.11	0.0000000	0.0000000	0.0000000	-0.0103101	0.0000000
Cadmium	226.50	0.0000000	0.0000000	-0.0022742	0.0000000	0.0000000
Calcium	227.54	0.1520070	0.0000000	0.1590650	0.0000000	0.0000000
Chromium	267.72	0.0002839	0.0018905	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0018545	0.0138986	0.0000000
Copper	324.75	0.0000000	0.0124565	0.0018525	0.0083539	0.0024871
Iron	273.96	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	-0.0002076	0.0016126	-0.0029336	-0.0058528	0.0000000
Magnesium	279.08	0.0000000	-0.0513180	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0003732	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	*231.60*	*0.0000000*	*0.0008908*	*0.0000000*	*0.0028847*	*0.0010379*
Potassium						
Selenium	196.03	0.0002297	0.0082140	0.0006306	0.0016016	0.0008558
Silver	328.07	0.0005243	0.0000000	0.0000000	0.0000000	0.0000000
Sodium						
Thallium	190.80	0.0000000	-0.0427067	0.0000000	-0.0159770	0.0000000
Vanadium	292.40	0.0000000	-0.0006762	0.0000000	0.0056904	0.0000000
Zinc	206.20	0.0000000	0.0017978	-0.0005897	0.0094826	-0.0013734

Comments:

FORM XI (Part 2) - IN SW846

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

ICP ID Number: OPTIMA_2A Date: 05/08/02

Analyte	Wave-length (nm)	Interelement Correction Factors for : V_				
Aluminum	308.21	0.0000000				
Antimony	206.83	-0.0189173				
Arsenic	188.98	0.0007689				
Barium	233.53	-0.0231888				
Beryllium	313.11	0.0000000				
Cadmium	226.50	0.0000000				
Calcium	227.54	0.2915730				
Chromium	267.72	-0.0022175				
Cobalt	228.62	0.0002444				
Copper	324.75	0.0000000				
Iron	273.96	0.0000000				
Lead	220.35	-0.0003234				
Magnesium	279.08	0.0000000				
Manganese	257.61	0.0002729				
Mercury						
Nickel	231.60	0.0002315				
Potassium						
Selenium	196.03	0.0020383				
Silver	328.07	-0.0047937				
Sodium						
Thallium	190.80	0.0256151				
Vanadium	292.40	0.0000000				
Zinc	206.20	0.0003146				

Comments:

FORM XI (Part 2) - IN SW846

001243

U.S. EPA - CLP

11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

ICP ID Number: OPTIMA_1A Date: 06/04/02

Analyte	Wave-length (nm)	Interelement Correction Factors for : Al	Ca	Fe	Mg	CR
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000135	0.0000038	0.0000521	-0.0000045	0.0034519
Arsenic	188.98	0.0000243	-0.0000023	-0.0000559	0.0000019	-0.0035919
Barium	233.53	0.0000000	0.0000025	-0.0000199	0.0000022	0.0000648
Beryllium	313.11	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	-0.0000059	0.0000000	0.0000554	0.0000000	0.0000000
Calcium						
Chromium	267.72	0.0000000	0.0000000	-0.0000102	-0.0000042	0.0000000
Cobalt	228.62	0.0000000	0.0000000	-0.0000273	0.0000000	-0.0001458
Copper	324.75	0.0000040	0.0000000	-0.0001164	0.0000000	-0.0000630
Iron	273.96	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0005094	0.0000000	0.0000225	0.0000024	-0.0000951
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	-0.0000186	0.0000152	-0.0000819
Mercury						
Nickel	231.60	0.0000076	0.0000020	-0.0004903	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver						
Sodium	589.59	0.0000000	-0.0009289	-0.0032485	-0.0006351	0.0054687
Thallium						
Vanadium						
Zinc						

Comments:

FORM XI (Part 1) - IN SW846

001244

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

ICP ID Number: OPTIMA_1A Date: 06/04/02

Analyte	Wave-length (nm)	Interelement Correction Factors for : CU	MN	NI	TL	TL
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	-0.0000322	0.0001669	0.0000000	-0.0003275	0.0000514
Arsenic	188.98	0.0000221	0.0001084	0.0000220	0.0015338	0.0000000
Barium	233.53	0.0000000	0.0001565	0.0000000	0.0000000	0.0000000
Beryllium	313.11	0.0000000	0.0000000	0.0000000	-0.0012987	0.0000000
Cadmium	226.50	0.0000000	0.0000000	-0.0004310	0.0000000	0.0000000
Calcium						
Chromium	267.72	0.0000229	0.0000856	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0001893	0.0013141	0.0000000
Copper	324.75	0.0000000	0.0004389	0.0002380	0.0010343	0.0001845
Iron	273.96	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	-0.0001374	0.0001494	-0.0000197	0.0002327	0.0000000
Magnesium	279.08	0.0000000	-0.0027817	0.0000000	0.0000000	0.0000000
Manganese	257.61	-0.0000389	0.0000000	0.0000000	0.0000000	-0.0000556
Mercury						
Nickel	231.60	0.0000000	0.0002592	0.0000000	0.0009038	0.0005405
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver						
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0261074	-0.0084032
Thallium						
Vanadium						
Zinc						

Comments:

FORM XI (Part 2) - IN SW846

001245

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

ICP ID Number: OPTIMA_1A Date: 06/04/02

Analyte	Wave-length (nm)	Interelement Correction Factors for : V_				
Aluminum	308.21	0.0000000				
Antimony	206.83	-0.0015072				
Arsenic	188.98	0.0000558				
Barium	233.53	-0.0014090				
Beryllium	313.11	0.0000000				
Cadmium	226.50	0.0000000				
Calcium						
Chromium	267.72	-0.0001214				
Cobalt	228.62	0.0000000				
Copper	324.75	0.0000000				
Iron	273.96	0.0064408				
Lead	220.35	-0.0001705				
Magnesium	279.08	0.0000000				
Manganese	257.61	-0.0000442				
Mercury						
Nickel	231.60	0.0000468				
Potassium	766.49	0.0000000				
Selenium						
Silver						
Sodium	589.59	0.0154548				
Thallium						
Vanadium						
Zinc						

Comments:

FORM XI (Part 2) - IN SW846

001246

U.S. EPA - CLP

12
ICP LINEAR RANGES (QUARTERLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

ICP ID Number: OPTIMA_2A Date: 10/01/02

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	0.20	500000	P
Antimony	0.20	25000	P
Arsenic	0.20	25000	P
Barium	0.20	50000	P
Beryllium	0.20	1000	P
Cadmium	0.20	10000	P
Calcium	0.50	500000	P
Chromium	0.20	50000	P
Cobalt	0.20	50000	P
Copper	0.20	25000	P
Iron	0.20	300000	P
Lead	0.20	100000	P
Magnesium	0.20	500000	P
Manganese	0.20	25000	P
Mercury			NR
Nickel	0.20	100000	P
Potassium			NR
Selenium	0.20	25000	P
Silver	0.20	2500	P
Sodium			NR
Thallium	0.20	25000	P
Vanadium	0.20	50000	P
Zinc	0.20	25000	P

Comments:

FORM XII - IN SW846

001247

U.S. EPA - CLP

12
ICP LINEAR RANGES (QUARTERLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

ICP ID Number: OPTIMA_1A Date: 10/01/02

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum			NR
Antimony			NR
Arsenic			NR
Barium			NR
Beryllium			NR
Cadmium			NR
Calcium			NR
Chromium			NR
Cobalt			NR
Copper			NR
Iron			NR
Lead			NR
Magnesium			NR
Manganese			NR
Mercury			NR
Nickel			NR
Potassium	0.20	500000	P
Selenium			NR
Silver			NR
Sodium	0.20	500000	P
Thallium			NR
Vanadium			NR
Zinc			NR

Comments:

FORM XII - IN SW846

001248

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
12SSTB902	11/12/02		50
12SSTB902D	11/12/02		50
LCSW	11/12/02		50
PBW	11/12/02		50

FORM XIII - IN SW846

001249

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
AOC2BB1	11/13/02		50
AOC2BB2	11/13/02		50
LCSW	11/13/02		50
PBW	11/13/02		50

FORM XIII - IN SW846

1250

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: MITKEM_CORPORATION_____ Contract: _____

Lab Code: MITKEM_ Case No.: _____ SAS No.: _____ SDG No.: A1627_____

Method: P___

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
AOC112E1	11/13/02		50
AOC13E2	11/13/02		50
AOC2E3	11/13/02		50
AOC2E4	11/13/02		50
LCSW	11/13/02		50
PBW	11/13/02		50

FORM XIII - IN SW846

001251

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: MITKEM_CORPORATION_____ Contract: _____

Lab Code: MITKEM_ Case No.: _____ SAS No.: _____ SDG No.: A1627_____

Method: P___

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
12SSTB1102	11/13/02	1.17	50
12SSTB902	11/13/02	1.13	50
12TB1068	11/13/02	1.12	50
12TB1524	11/13/02	1.07	50
13SSTB2413	11/13/02	1.14	50
13SSTB3124	11/13/02	1.06	50
13SSTB3435	11/13/02	1.02	50
LCSS	11/13/02	0.50	50
PBS	11/13/02	1.00	50

FORM XIII - IN SW846

001252

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: MITKEM_CORPORATION_____ Contract: _____

Lab Code: MITKEM_ Case No.: _____ SAS No.: _____ SDG No.: A1627_____

Method: CV_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
AOC112E1	11/13/02		158
AOC13E2	11/13/02		140
AOC2BB1	11/13/02		140
AOC2BB2	11/13/02		140
AOC2E3	11/13/02		146
AOC2E4	11/13/02		138
LCSW	11/13/02		100
PBW	11/13/02		100

FORM XIII - IN SW846

001253

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: MITKEM_CORPORATION_____ Contract: _____

Lab Code: MITKEM_ Case No.: _____ SAS No.: _____ SDG No.: A1627_____

Method: CV_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
12SSTB1802	11/18/02		100
LCSW	11/18/02		100
PBW	11/18/02		100

FORM XIII - IN SW846

001254

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Method: CV_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
12SSTB1102	11/13/02	0.68	100
12TB1068	11/13/02	0.67	100
12TB1524	11/13/02	0.69	100
13SSTB2413	11/13/02	0.68	100
13SSTB3124	11/13/02	0.60	100
13SSTB3435	11/13/02	0.67	100
LCSS	11/13/02	0.60	100
PBS	11/13/02	0.60	100

FORM XIII - IN SW846

001255

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Method: CV_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
12SSTB1802	11/18/02	0.74	100
LCSS	11/18/02	0.60	100
PBS	11/18/02	0.60	100

FORM XIII - IN SW846

001256

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID Number: OPTIMA_2A Method: P

Start Date: 11/14/02 End Date: 11/14/02

EPA Sample No.	D/F	Time	%R	Analytes
S0	1.00	1023		X X X X X X X X X X X X X X X X X X X X X X X X X X X
S1	1.00	1027		X X X X X X X X X X X X X X X X X X X X X X X X X X X
S2	1.00	1029		X X X X X X X X X X X X X X X X X X X X X X X X X X X
S3	1.00	1033		X X X X X X X X X X X X X X X X X X X X X X X X X X X
ZZZZZZ	1.00	1038		
ZZZZZZ	1.00	1040		
ZZZZZZ	1.00	1043		
ZZZZZZ	1.00	1046		
ZZZZZZ	1.00	1050		
ZZZZZZ	1.00	1054		
ICV	1.00	1104		X X X X X X X X X X X X X X X X X X X X X X X X X X X
ICB	1.00	1109		X X X X X X X X X X X X X X X X X X X X X X X X X X X
ICSA	1.00	1113		X X X X X X X X X X X X X X X X X X X X X X X X X X X
ICSAB	1.00	1116		X X X X X X X X X X X X X X X X X X X X X X X X X X X
PBW	1.00	1118		X
LCSW	1.00	1123		X
12SSTB902	1.00	1127		X
12SSTB902D	1.00	1131		X
12SSTB9021	1.00	1135		X
PBW	1.00	1139		X X X X X X X X X X X X X X X X X X X X X X X X X X X
CCV	1.00	1143		X X X X X X X X X X X X X X X X X X X X X X X X X X X
CCB	1.00	1147		X X X X X X X X X X X X X X X X X X X X X X X X X X X
LCSW	1.00	1151		X X X X X X X X X X X X X X X X X X X X X X X X X X X
AOC2BB1	1.00	1155		X X X X X X X X X X X X X X X X X X X X X X X X X X X
AOC2BB2	1.00	1159		X X X X X X X X X X X X X X X X X X X X X X X X X X X
PBW	1.00	1203		X X X X X X X X X X X X X X X X X X X X X X X X X X X
LCSW	1.00	1207		X X X X X X X X X X X X X X X X X X X X X X X X X X X
ZZZZZZ	1.00	1212		
ZZZZZZ	1.00	1214		
CCV	1.00	1217		X X X X X X X X X X X X X X X X X X X X X X X X X X X
CCB	1.00	1221		X X X X X X X X X X X X X X X X X X X X X X X X X X X
AOC112E1	1.00	1225		X X X X X X X X X X X X X X X X X X X X X X X X X X X

FORM XIV - IN SW846

001257

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID Number: OPTIMA_2A Method: P

Start Date: 11/14/02 End Date: 11/14/02

EPA Sample No.	D/F	Time	%R	Analytes
AOC2E3	1.00	1229		X X X X X X X X X X X X X X X X X X X X X X X X X X X
AOC13E2	1.00	1233		X X X X X X X X X X X X X X X X X X X X X X X X X X X
AOC2E4	1.00	1237		X X X X X X X X X X X X X X X X X X X X X X X X X X X
PBS	1.00	1241		X X X X X X X X X X X X X X X X X X X X X X X X X X X
LCSS	1.00	1245		X X X X X X X X X X X X X X X X X X X X X X X X X X X
12TB1524	1.00	1250		X X X X X X X X X X X X X X X X X X X X X X X X X X X
CCV	1.00	1252		X X X X X X X X X X X X X X X X X X X X X X X X X X X
CCB	1.00	1256		X X X X X X X X X X X X X X X X X X X X X X X X X X X
12TB1068	1.00	1301		X X X X X X X X X X X X X X X X X X X X X X X X X X X
13SSTB3435	1.00	1303		X X X X X X X X X X X X X X X X X X X X X X X X X X X
13SSTB2413	1.00	1306		X X X X X X X X X X X X X X X X X X X X X X X X X X X
13SSTB3124	1.00	1309		X X X X X X X X X X X X X X X X X X X X X X X X X X X
12SSTB1102	1.00	1312		X X X X X X X X X X X X X X X X X X X X X X X X X X X
12SSTB902	1.00	1315		X
CCV	1.00	1321		X X X X X X X X X X X X X X X X X X X X X X X X X X X
CCB	1.00	1325		X X X X X X X X X X X X X X X X X X X X X X X X X X X
13SSTB3435	2.00	1329		X
13SSTB2413	2.00	1332		X
ZZZZZZ	1.00	1335		
ICSA	1.00	1337		X X X X X X X X X X X X X X X X X X X X X X X X X X X
ICSAB	1.00	1340		X X X X X X X X X X X X X X X X X X X X X X X X X X X
CCV	1.00	1343		X X X X X X X X X X X X X X X X X X X X X X X X X X X
CCB	1.00	1347		X X X X X X X X X X X X X X X X X X X X X X X X X X X

FORM XIV - IN SW846

1258

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID Number: OPTIMA_1A Method: P

Start Date: 11/14/02 End Date: 11/14/02

EPA Sample No.	D/F	Time	%R	Analytes																						
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1419																				X				
S1	1.00	1421																				X				
S2	1.00	1423																				X				
S3	1.00	1425																				X				
ZZZZZZ	1.00	1428																								
ZZZZZZ	1.00	1430																								
ZZZZZZ	1.00	1432																								
ZZZZZZ	1.00	1435																								
ZZZZZZ	1.00	1438																								
ICV	1.00	1440																				X				
ICB	1.00	1443																				X				
ICSA	1.00	1445																								
ICSAB	1.00	1447																				X				
PBW	1.00	1450																				X				
LCSW	1.00	1452																				X				
AOC2BB1	1.00	1454																				X				
AOC2BB2	1.00	1456																				X				
PBW	1.00	1459																				X				
LCSW	1.00	1501																				X				
CCV	1.00	1503																				X				
CCB	1.00	1506																				X				
AOC112E1	1.00	1508																				X				
AOC2E3	1.00	1510																				X				
AOC13E2	1.00	1513																				X				
AOC2E4	1.00	1515																				X				
AOC2E4L	1.00	1517																				X				
PBS	1.00	1520																				X				
LCSS	1.00	1522																				X				
12TB1524	1.00	1524																				X				
CCV	1.00	1526																				X				
CCB	1.00	1529																				X				
12TB1068	1.00	1531																				X				

FORM XIV - IN SW846

1259

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID Number: OPTIMA_1A Method: P

Start Date: 11/14/02 End Date: 11/14/02

EPA Sample No.	D/F	Time	%R	Analytes																						
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
13SSTB3435	1.00	1533																				X				
13SSTB2413	1.00	1536																				X				
13SSTB3124	1.00	1538																				X				
12SSTB1102	1.00	1540																				X				
ICSA	1.00	1542																								
ICSAB	1.00	1545																				X				
CCV	1.00	1547																				X				
CCB	1.00	1549																				X				

FORM XIV - IN SW846

1260

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID Number: OPTIMA_1A Method: P

Start Date: 11/15/02 End Date: 11/15/02

EPA Sample No.	D/F	Time	%R	Analytes																						
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	0841																		X						
S1	1.00	0843																		X						
S2	1.00	0846																		X						
S3	1.00	0848																		X						
ZZZZZZ	1.00	0850																								
ZZZZZZ	1.00	0853																								
ICV	1.00	0855																		X						
ICB	1.00	0857																		X						
ICSA	1.00	0900																								
ICSAB	1.00	0902																		X						
PBW	1.00	0904																		X						
LCSW	1.00	0906																		X						
AOC2BB1	1.00	0909																		X						
AOC2BB2	1.00	0911																		X						
PBW	1.00	0913																		X						
LCSW	1.00	0916																		X						
CCV	1.00	0918																		X						
CCB	1.00	0920																		X						
AOC112E1	1.00	0923																		X						
AOC2E3	1.00	0925																		X						
AOC13E2	1.00	0927																		X						
AOC2E4	1.00	0930																		X						
AOC2E4L	1.00	0932																		X						
PBS	1.00	0934																		X						
LCSS	1.00	0937																		X						
12TB1524	1.00	0939																		X						
CCV	1.00	0941																		X						
CCB	1.00	0943																		X						
12TB1068	1.00	0946																		X						
13SSTB3435	1.00	0948																		X						
13SSTB2413	1.00	0950																		X						
13SSTB3124	1.00	0952																		X						

FORM XIV - IN SW846

001261

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID Number: OPTIMA_1A Method: P

Start Date: 11/15/02 End Date: 11/15/02

EPA Sample No.	D/F	Time	%R	Analytes																						
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
12SSTB1102	1.00	0955																		X						
ICSA	1.00	0957																								
ICSAB	1.00	0959																		X						
CCV	1.00	1002																		X						
CCB	1.00	1004																		X						

FORM XIV - IN SW846

001262

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID Number: COMM_FIMS Method: CV_

Start Date: 11/13/02 End Date: 11/13/02

EPA Sample No.	D/F	Time	%R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1617																X								
S0.2	1.00	1618																X								
S1	1.00	1619																X								
S2	1.00	1621																X								
S5	1.00	1622																X								
S10	1.00	1624																X								
ICV	1.00	1625																X								
ICB	1.00	1626																X								
PBS	1.00	1627																X								
LCSS	1.00	1629																								
ZZZZZZ	1.00	1630																								
ZZZZZZ	1.00	1631																								
ZZZZZZ	1.00	1633																								
ZZZZZZ	1.00	1634																								
ZZZZZZ	1.00	1635																								
ZZZZZZ	1.00	1637																								
CCV	1.00	1638																X								
CCB	1.00	1639																X								
ZZZZZZ	1.00	1641																								
ZZZZZZ	1.00	1642																								
ZZZZZZ	1.00	1643																								
ZZZZZZ	1.00	1645																								
ZZZZZZ	1.00	1646																								
ZZZZZZ	1.00	1647																								
12TB1524	1.00	1649																X								
12TB1068	1.00	1650																X								
CCV	1.00	1651																X								
CCB	1.00	1653																X								
13SSTB3435	1.00	1654																X								
13SSTB2413	1.00	1655																X								
13SSTB3124	1.00	1657																X								
12SSTB1102	1.00	1658																X								

FORM XIV - IN SW846

001263

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID Number: COMM_FIMS Method: CV_

Start Date: 11/13/02 End Date: 11/13/02

EPA Sample No.	D/F	Time	%R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1659																								
PBW	1.00	1701																X								
LCSW	1.00	1702																X								
ZZZZZZ	1.00	1703																								
CCV	1.00	1705																X								
CCB	1.00	1706																X								
ZZZZZZ	1.00	1707																								
ZZZZZZ	1.00	1709																								
ZZZZZZ	1.00	1710																								
ZZZZZZ	1.00	1711																								
ZZZZZZ	1.00	1713																								
ZZZZZZ	1.00	1714																								
ZZZZZZ	1.00	1715																								
ZZZZZZ	1.00	1717																								
CCV	1.00	1718																X								
CCB	1.00	1719																X								
ZZZZZZ	1.00	1734																								
ZZZZZZ	1.00	1735																								
ZZZZZZ	1.00	1737																								
ZZZZZZ	1.00	1738																								
AOC112E1	1.00	1739																X								
AOC2E3	1.00	1741																X								
AOC13E2	1.00	1742																X								
AOC2E4	1.00	1743																X								
AOC2BB1	1.00	1745																X								
AOC2BB2	1.00	1746																X								
CCV	1.00	1747																X								
CCB	1.00	1749																X								

FORM XIV - IN SW846

001264

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID Number: COMM_FIMS Method: CV_

Start Date: 11/13/02 End Date: 11/13/02

EPA Sample No.	D/F	Time	%R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1617																X								
S0.2	1.00	1618																X								
S1	1.00	1619																X								
S2	1.00	1621																X								
S5	1.00	1622																X								
S10	1.00	1624																X								
ICV	1.00	1625																X								
ICB	1.00	1626																X								
PBS	1.00	1627																X								
LCSS	1.00	1629																X								
ZZZZZZ	1.00	1630																								
ZZZZZZ	1.00	1631																								
ZZZZZZ	1.00	1633																								
ZZZZZZ	1.00	1634																								
ZZZZZZ	1.00	1635																								
ZZZZZZ	1.00	1637																								
CCV	1.00	1638																X								
CCB	1.00	1639																X								
ZZZZZZ	1.00	1641																								
ZZZZZZ	1.00	1642																								
ZZZZZZ	1.00	1643																								
ZZZZZZ	1.00	1645																								
ZZZZZZ	1.00	1646																								
ZZZZZZ	1.00	1647																								
12TB1524	1.00	1649																X								
12TB1068	1.00	1650																X								
CCV	1.00	1651																X								
CCB	1.00	1653																X								
13SSTB3435	1.00	1654																X								
13SSTB2413	1.00	1655																X								
13SSTB3124	1.00	1657																X								
12SSTB1102	1.00	1658																X								

FORM XIV - IN SW846

001265

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1627

Instrument ID Number: COMM_FIMS Method: CV_

Start Date: 11/19/02 End Date: 11/19/02

EPA Sample No.	D/F	Time	%R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1223																X								
S0.2	1.00	1224																X								
S1	1.00	1226																X								
S2	1.00	1227																X								
S5	1.00	1228																X								
S10	1.00	1230																X								
ICV	1.00	1231																X								
ICB	1.00	1232																X								
ZZZZZZ	1.00	1234																								
LCSW	1.00	1235																X								
ZZZZZZ	1.00	1236																								
ZZZZZZ	1.00	1238																								
ZZZZZZ	1.00	1239																								
PBW	1.00	1240																X								
12SSTB1802	1.00	1242																X								
PBS	1.00	1243																X								
CCV	1.00	1244																X								
CCB	1.00	1246																X								
LCSS	1.00	1247																X								
ZZZZZZ	1.00	1248																								
ZZZZZZ	1.00	1250																								
12SSTB1802	1.00	1251																X								
ZZZZZZ	1.00	1252																								
ZZZZZZ	1.00	1254																								
ZZZZZZ	1.00	1255																								
ZZZZZZ	1.00	1256																								
CCV	1.00	1258																X								
CCB	1.00	1259																X								

FORM XIV - IN SW846

001266

INSTRUMENT RAW DATA

1. ICP

2. Mercury

Analysis Begun

Start Time: 11/14/2002 10:22:39 AM
Logged In Analyst: optima2
Spectrometer Model: Optima 3100 XL

Plasma On Time: 11/14/2002 9:39:06 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\pe\administrator\Sample Information\Ev.sif
Results Data Set: A111402
Results Library: d:\pe\administrator\Results\Results.mdb

Method Loaded
Method Name: 6010
IEC File: A020508X.iec
Method Description: Working method for all analytes

Method Last Saved: 11/8/2002 12:29:42 PM
MSF File:

Sequence No.: 1
Sample ID: S0
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/14/2002 10:22:39 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Ag 328.068	-756.0	52.75	6.98%	[0.00]	mg/L
Al 308.215	16809.5	58.26	0.54%	[0.00]	mg/L
As 188.979	-20.0	0.87	4.36%	[0.00]	mg/L
Ba 233.527	-915.3	4.00	0.41%	[0.00]	mg/L
Be 313.107	-6205.3	64.17	1.03%	[0.00]	mg/L
Co 228.616	-470.7	7.21	1.53%	[0.00]	mg/L
Cr 267.716	-552.1	63.79	11.56%	[0.00]	mg/L
Cu 324.752	3361.8	199.25	5.93%	[0.00]	mg/L
Fe 273.955	-251.8	618.99	245.84%	[0.00]	mg/L
Mg 279.077	-4819.8	616.52	12.79%	[0.00]	mg/L
Mn 257.610	-2715.6	166.15	6.14%	[0.00]	mg/L
Ni 231.604	-638.8	11.23	1.76%	[0.00]	mg/L
Pb 220.353	33.4	8.56	25.66%	[0.00]	mg/L
Sb 206.836	199.3	1.08	0.56%	[0.00]	mg/L
Se 196.026	42.1	2.84	6.74%	[0.00]	mg/L
Tl 190.801	2.2	2.84	128.62%	[0.00]	mg/L
V 292.402	643.8	9.30	1.44%	[0.00]	mg/L
Zn 206.200	-148.0	9.05	6.11%	[0.00]	mg/L
Na 330.237	1700.9	123.46	7.25%	[0.00]	mg/L
Cd 226.502	-542.1	21.99	4.06%	[0.00]	mg/L
Ti 334.940	2686.6	33.67	1.26%	[0.00]	mg/L
Ca 227.546	129.3	1.07	0.83%	[0.00]	mg/L

Analysis Begun

Start Time: 11/14/2002 10:25:56 AM
Logged In Analyst: optima2
Spectrometer Model: Optima 3100 XL

Plasma On Time: 11/14/2002 8:39:06 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\pe\administrator\Sample Information\Ev.sif
Results Data Set: A111402
Results Library: d:\pe\administrator\Results\Results.mdb

Sequence No.: 2
Sample ID: S1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 11/14/2002 10:25:56 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Ag 328.068	1148382.3	22745.16	1.98%	[2.5]	mg/L
Al 308.215	5376133.4	6940.06	0.51%	[20]	mg/L
As 188.979	3290.3	19.93	0.61%	[1]	mg/L
Ba 233.527	2793478.1	10249.88	0.37%	[20]	mg/L
Be 313.107	5827985.9	60107.01	1.03%	[0.5]	mg/L
Co 228.616	343634.3	1815.09	0.53%	[5]	mg/L
Cr 267.716	977018.2	5041.17	0.52%	[2]	mg/L
Cu 324.752	1658182.2	7457.16	0.45%	[2.5]	mg/L
Fe 273.955	690231.8	2927.27	0.42%	[10]	mg/L
Mg 279.077	3114265.3	13569.07	0.44%	[50]	mg/L
Mn 257.610	3081573.3	17536.99	0.57%	[5]	mg/L
Ni 231.604	512677.9	3798.86	0.74%	[5]	mg/L
Pb 220.353	31869.7	168.90	0.53%	[1]	mg/L
Sb 206.836	5389.8	87.05	1.62%	[1]	mg/L
Se 196.026	1611.8	28.98	4.80%	[1]	mg/L
Tl 190.801	4419.4	7.69	0.17%	[1]	mg/L
V 292.402	2534791.0	10998.70	0.43%	[5]	mg/L
Zn 206.200	862513.7	3604.58	0.42%	[5]	mg/L
Na 330.237	150718.7	638.11	0.42%	[50]	mg/L
Cd 226.502	269912.3	1213.88	0.45%	[0.5]	mg/L
Ti 334.940	1686422.6	7081.20	0.42%	[1]	mg/L
Ca 227.546	52279.4	106.02	0.20%	[50]	mg/L

Sequence No.: 3
Sample ID: S2
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 11/14/2002 10:28:37 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Ag 328.068	581517.2	214.17	0.04%	[1.25]	mg/L
Al 308.215	694258.4	2487.55	0.36%	[10]	mg/L
As 188.979	1682.7	2.30	0.14%	[0.5]	mg/L
Ba 233.527	1484191.5	2138.98	0.14%	[10]	mg/L
Be 313.107	2964229.0	4738.78	0.16%	[0.25]	mg/L
Co 228.616	179611.6	337.02	0.19%	[2.5]	mg/L
Cr 267.716	504626.2	411.86	0.08%	[1]	mg/L
Cu 324.752	848104.9	1920.82	0.23%	[1.25]	mg/L
Fe 273.955	358389.0	520.60	0.15%	[5]	mg/L
Mg 279.077	1608009.4	1361.44	0.08%	[25]	mg/L
Mn 257.610	1614091.7	510.64	0.03%	[2.5]	mg/L
Ni 231.604	269309.7	646.92	0.24%	[2.5]	mg/L
Pb 220.353	16559.3	0.94	0.01%	[0.5]	mg/L
Sb 206.836	2868.3	40.56	1.41%	[0.5]	mg/L
Se 196.026	1858.7	3.75	0.20%	[0.5]	mg/L
Tl 190.801	2291.2	8.93	0.39%	[0.5]	mg/L
V 292.402	1302274.1	2716.50	0.21%	[2.5]	mg/L
Zn 206.200	453977.4	449.94	0.10%	[2.5]	mg/L
Na 330.237	73483.1	106.38	0.14%	[25]	mg/L
Cd 226.502	139235.4	211.94	0.15%	[0.25]	mg/L
Ti 334.940	867219.1	1804.96	0.21%	[0.5]	mg/L
Ca 227.546	26208.9	31.89	0.12%	[25]	mg/L

Sequence No.: 4
Sample ID: S3
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 11/14/2002 10:32:45 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units

Ag 328.068	12651.8	754.24	5.87%	[0.025]	mg/L
Al 308.215	12954.5	294.35	2.27%	[0.2]	mg/L
As 188.979	34.4	0.06	0.17%	[0.01]	mg/L
Ba 233.527	31676.2	122.30	0.39%	[0.2]	mg/L
Be 313.107	57967.0	14.36	0.02%	[0.005]	mg/L
Co 228.616	3672.2	8.62	0.23%	[0.05]	mg/L
Cr 267.716	10014.5	67.93	0.68%	[0.02]	mg/L
Cu 324.752	17757.6	212.42	1.20%	[0.025]	mg/L
Fe 273.955	6613.5	238.27	3.60%	[0.1]	mg/L
Mg 279.077	31557.2	117.19	0.37%	[0.5]	mg/L
Mn 257.610	33432.1	162.72	0.49%	[0.05]	mg/L
Ni 231.604	5373.5	20.01	0.37%	[0.05]	mg/L
Pb 220.353	336.8	3.12	0.93%	[0.01]	mg/L
Sb 206.836	99.7	11.75	13.10%	[0.01]	mg/L
Se 196.026	35.6	1.90	5.33%	[0.01]	mg/L
Tl 190.801	80.5	0.36	0.70%	[0.01]	mg/L
V 292.402	23660.6	112.86	0.48%	[0.05]	mg/L
Zn 206.200	9563.6	89.48	0.94%	[0.05]	mg/L
Na 330.237	1380.5	4.66	0.34%	[0.5]	mg/L
Cd 226.502	2757.0	21.62	0.76%	[0.005]	mg/L
Ti 334.940	17152.0	100.10	0.58%	[0.01]	mg/L
Ca 227.546	496.6	14.17	2.85%	[0.5]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	460500	0.00000	0.999987	
Al 308.215	3	Lin Thru 0	0.0	68930	0.00000	0.999993	
As 188.979	3	Lin Thru 0	0.0	3305	0.00000	0.999959	
Ba 233.527	3	Lin Thru 0	0.0	141400	0.00000	0.999884	
Be 313.107	3	Lin Thru 0	0.0	11700000	0.00000	0.999976	
Co 228.616	3	Lin Thru 0	0.0	69350	0.00000	0.999838	
Cr 267.716	3	Lin Thru 0	0.0	491800	0.00000	0.999912	
Cu 324.752	3	Lin Thru 0	0.0	466300	0.00000	0.999958	
Fe 273.955	3	Lin Thru 0	0.0	69550	0.00000	0.999883	
Mg 279.077	3	Lin Thru 0	0.0	62690	0.00000	0.999816	
Mn 257.610	3	Lin Thru 0	0.0	622200	0.00000	0.999822	
Ni 231.604	3	Lin Thru 0	0.0	103500	0.00000	0.999829	
Pb 220.353	3	Lin Thru 0	0.0	32120	0.00000	0.999879	
Sb 206.836	3	Lin Thru 0	0.0	5459	0.00000	0.999661	
Se 196.026	3	Lin Thru 0	0.0	3633	0.00000	0.999833	
Tl 190.801	3	Lin Thru 0	0.0	4452	0.00000	0.999892	
V 292.402	3	Lin Thru 0	0.0	509700	0.00000	0.999940	
Zn 206.200	3	Lin Thru 0	0.0	174300	0.00000	0.999782	
Na 330.237	3	Lin Thru 0	0.0	2999	0.00000	0.999956	
Cd 226.502	3	Lin Thru 0	0.0	538400	0.00000	0.999853	
Ti 334.940	3	Lin Thru 0	0.0	1696000	0.00000	0.999936	
Ca 227.546	3	Lin Thru 0	0.0	1046	0.00000	0.999849	

Sequence No.: 5
Sample ID: CHECK
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 11/14/2002 10:36:44 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CHECK

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	1136070.6	2.4698	mg/L	0.02767	2.4698	mg/L	0.02767	1.12%
Al 308.215	1382257.3	20.053	mg/L	0.1516	20.053	mg/L	0.1516	0.76%
As 188.979	3338.2	1.0293	mg/L	0.01103	1.0293	mg/L	0.01103	1.07%
Ba 233.527	2806828.2	19.858	mg/L	0.0952	19.858	mg/L	0.0952	0.48%
Be 313.107	5811010.0	0.4979	mg/L	0.00212	0.4979	mg/L	0.00212	0.43%
Co 228.616	344336.5	4.9600	mg/L	0.02209	4.9600	mg/L	0.02209	0.45%
Cr 267.716	980438.1	1.9939	mg/L	0.00982	1.9939	mg/L	0.00982	0.49%
Cu 324.752	1666857.0	2.4946	mg/L	0.01304	2.4946	mg/L	0.01304	0.52%
Fe 273.955	692514.0	9.9567	mg/L	0.04748	9.9567	mg/L	0.04748	0.48%
Mg 279.077	3123862.3	49.855	mg/L	0.2075	49.855	mg/L	0.2075	0.42%

Mn 257.610	3086335.0	4.9600	mg/L	0.02471	4.9600	mg/L	0.02471	0.50%
Ni 231.604	512854.3	4.9545	mg/L	0.04597	4.9545	mg/L	0.04597	0.93%
Pb 220.353	32059.0	1.0016	mg/L	0.00587	1.0016	mg/L	0.00587	0.59%
Sb 206.836	5353.0	0.9886	mg/L	0.01472	0.9886	mg/L	0.01472	1.49%
Se 196.026	3614.8	0.9927	mg/L	0.01318	0.9927	mg/L	0.01318	1.33%
Tl 190.801	4427.4	1.0041	mg/L	0.01270	1.0041	mg/L	0.01270	1.26%
V 292.402	2548010.1	5.0024	mg/L	0.01967	5.0024	mg/L	0.01967	0.39%
Zn 206.200	864297.7	4.9573	mg/L	0.01829	4.9573	mg/L	0.01829	0.37%
Na 330.237	151499.7	50.679	mg/L	0.2843	50.679	mg/L	0.2843	0.56%
Cd 226.502	267742.9	0.4980	mg/L	0.00245	0.4980	mg/L	0.00245	0.49%
Ti 334.940	1695923.3	1.0000	mg/L	0.00478	1.0000	mg/L	0.00478	0.48%
Ca 227.546	52536.3	49.868	mg/L	0.3743	49.868	mg/L	0.3743	0.75%

Sequence No.: 6
Sample ID: LRA #1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 11/14/2002 10:39:25 AM
Sample Prep Volume:
Data Type: Original

Mean Data: LRA #1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-5469.8	-0.0003	mg/L	0.00098	-0.0003	mg/L	0.00098	368.92%
Al 308.215	54623.5	0.7924	mg/L	0.00550	0.7924	mg/L	0.00550	0.69%
As 188.979	66796.0	20.406	mg/L	0.0542	20.406	mg/L	0.0542	0.27%
Ba 233.527	-2661.6	0.0268	mg/L	0.00001	0.0268	mg/L	0.00001	0.03%
Be 313.107	Saturated3							
Saturated in preshot (code 3)								
Co 228.616	1447490.2	20.870	mg/L	0.0750	20.870	mg/L	0.0750	0.36%
Cr 267.716	10055797.0	20.449	mg/L	0.0590	20.449	mg/L	0.0590	0.29%
Cu 324.752	13659545.9	20.470	mg/L	0.0937	20.470	mg/L	0.0937	0.46%
Fe 273.955	1448745.5	20.830	mg/L	0.0919	20.830	mg/L	0.0919	0.44%
Mg 279.077	1260462.0	20.206	mg/L	0.0649	20.206	mg/L	0.0649	0.32%
Mn 257.610	12085841.3	19.427	mg/L	0.0545	19.427	mg/L	0.0545	0.28%
Ni 231.604	2121723.3	20.497	mg/L	0.0493	20.497	mg/L	0.0493	0.24%
Pb 220.353	682117.8	21.242	mg/L	0.0718	21.242	mg/L	0.0718	0.34%
Sb 206.836	123634.2	22.661	mg/L	0.0202	22.661	mg/L	0.0202	0.09%
Se 196.026	72188.3	19.855	mg/L	0.0175	19.855	mg/L	0.0175	0.09%
Tl 190.801	94760.0	21.312	mg/L	0.0168	21.312	mg/L	0.0168	0.08%
V 292.402	10267227.7	20.185	mg/L	0.0685	20.185	mg/L	0.0685	0.34%
Zn 206.200	3381069.4	19.428	mg/L	0.0568	19.428	mg/L	0.0568	0.29%
Na 330.237	58212.9	19.151	mg/L	0.1289	19.151	mg/L	0.1289	0.67%
Cd 226.502	10609546.6	19.708	mg/L	0.0627	19.708	mg/L	0.0627	0.32%
Ti 334.940	Saturated2							
Saturated in preshot (code 2)								
Ca 227.546	29666.3	26.838	mg/L	0.2057	26.838	mg/L	0.2057	0.77%

Sequence No.: 7
Sample ID: LRA #3
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 11/14/2002 10:42:18 AM
Sample Prep Volume:
Data Type: Original

Mean Data: LRA #3

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	299.2	0.0006	mg/L	0.00047	0.0006	mg/L	0.00047	72.14%
Al 308.215	32998698.0	478.73	mg/L	5.037	478.73	mg/L	5.037	1.05%
As 188.979	33.8	0.0092	mg/L	0.00422	0.0092	mg/L	0.00422	45.86%
Ba 233.527	135.7	0.0010	mg/L	0.00024	0.0010	mg/L	0.00024	25.50%
Be 313.107	32035.5	0.0027	mg/L	0.00026	0.0027	mg/L	0.00026	9.35%
Co 228.616	-111.7	-0.0002	mg/L	0.00013	-0.0002	mg/L	0.00013	52.72%
Cr 267.716	759.2	0.0015	mg/L	0.00008	0.0015	mg/L	0.00008	5.44%
Cu 324.752	58727.1	0.0877	mg/L	0.00636	0.0877	mg/L	0.00636	7.25%
Fe 273.955	-631.7	-0.0091	mg/L	0.00086	-0.0091	mg/L	0.00086	9.43%
Mg 279.077	31460164.1	501.83	mg/L	2.110	501.83	mg/L	2.110	0.42%
Mn 257.610	1342.0	-0.0024	mg/L	0.00003	-0.0024	mg/L	0.00003	1.23%

Ni 231.604	-21.4	-0.0002	mg/L	0.00037	-0.0002	mg/L	0.00037	176.71%
Pb 220.353	-1259.2	0.0008	mg/L	0.00118	0.0008	mg/L	0.00118	146.66%
Sb 206.836	143.0	0.0264	mg/L	0.00192	0.0264	mg/L	0.00192	7.25%
Se 196.026	12.8	0.0063	mg/L	0.00347	0.0063	mg/L	0.00347	55.21%
Tl 190.801	69.4	0.0101	mg/L	0.00712	0.0101	mg/L	0.00712	70.83%
V 292.402	-27.8	-0.0001	mg/L	0.00013	-0.0001	mg/L	0.00013	250.98%
Zn 206.200	8685.5	0.0275	mg/L	0.00203	0.0275	mg/L	0.00203	7.40%
Na 330.237	192.2	0.0644	mg/L	0.02039	0.0644	mg/L	0.02039	31.65%
Cd 226.502	-94.7	-0.0002	mg/L	0.00003	-0.0002	mg/L	0.00003	15.09%
Ti 334.940	1504.5	0.0009	mg/L	0.00009	0.0009	mg/L	0.00009	10.28%
Ca 227.546	-143.2	0.0808	mg/L	0.00075	0.0808	mg/L	0.00075	0.92%

Sequence No.: 8
Sample ID: LRA #4
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 11/14/2002 10:44:52 AM
Sample Prep Volume:
Data Type: Original

Mean Data: LRA #4

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-24682.4	0.0015	mg/L	0.00034	0.0015	mg/L	0.00034	22.82%
Al 308.215	287.7	0.0042	mg/L	0.00449	0.0042	mg/L	0.00449	107.59%
As 188.979	-99.1	0.0072	mg/L	0.00042	0.0072	mg/L	0.00042	5.76%
Ba 233.527	2587.5	0.0057	mg/L	0.00018	0.0057	mg/L	0.00018	3.25%
Be 313.107	18861.4	0.0016	mg/L	0.00016	0.0016	mg/L	0.00016	9.68%
Co 228.616	499.7	0.0034	mg/L	0.00006	0.0034	mg/L	0.00006	1.88%
Cr 267.716	-1568.1	0.0004	mg/L	0.00012	0.0004	mg/L	0.00012	31.62%
Cu 324.752	-566.9	0.0388	mg/L	0.00487	0.0388	mg/L	0.00487	12.56%
Fe 273.955	19660169.2	282.67	mg/L	0.225	282.67	mg/L	0.225	0.08%
Mg 279.077	559.4	0.0088	mg/L	0.00475	0.0088	mg/L	0.00475	54.15%
Mn 257.610	-17764.5	-0.0240	mg/L	0.00004	-0.0240	mg/L	0.00004	0.15%
Ni 231.604	414.5	0.0040	mg/L	0.00012	0.0040	mg/L	0.00012	3.00%
Pb 220.353	195.0	0.0123	mg/L	0.00013	0.0123	mg/L	0.00013	1.03%
Sb 206.836	46.4	0.0220	mg/L	0.00617	0.0220	mg/L	0.00617	28.08%
Se 196.026	-332.7	-0.0063	mg/L	0.00099	-0.0063	mg/L	0.00099	15.67%
Tl 190.801	-10.1	0.0058	mg/L	0.00047	0.0058	mg/L	0.00047	8.13%
V 292.402	257.7	-0.0018	mg/L	0.00003	-0.0018	mg/L	0.00003	1.69%
Zn 206.200	1483.3	0.0063	mg/L	0.00127	0.0063	mg/L	0.00127	20.16%
Na 330.237	-1558.4	-0.0323	mg/L	0.01006	-0.0323	mg/L	0.01006	31.11%
Cd 226.502	8093.9	0.0040	mg/L	0.00008	0.0040	mg/L	0.00008	2.05%
Ti 334.940	207.9	0.0001	mg/L	0.00006	0.0001	mg/L	0.00006	42.69%
Ca 227.546	3593.4	0.9844	mg/L	0.01920	0.9844	mg/L	0.01920	1.95%

Sequence No.: 9
Sample ID: LRA #5
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 11/14/2002 10:49:04 AM
Sample Prep Volume:
Data Type: Original

Mean Data: LRA #5

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	2973.2	-0.0040	mg/L	0.00050	-0.0040	mg/L	0.00050	12.26%
Al 308.215	917.0	0.0133	mg/L	0.00146	0.0133	mg/L	0.00146	10.97%
As 188.979	-1.6	-0.0005	mg/L	0.00069	-0.0005	mg/L	0.00069	145.40%
Ba 233.527	513.0	0.0022	mg/L	0.00053	0.0022	mg/L	0.00053	23.94%
Be 313.107	11707.3	0.0010	mg/L	0.00009	0.0010	mg/L	0.00009	9.18%
Co 228.616	60.0	0.0009	mg/L	0.00062	0.0009	mg/L	0.00062	72.88%
Cr 267.716	325.5	0.0007	mg/L	0.00027	0.0007	mg/L	0.00027	40.48%
Cu 324.752	10716.3	0.0147	mg/L	0.00138	0.0147	mg/L	0.00138	9.39%
Fe 273.955	968.7	0.0139	mg/L	0.01612	0.0139	mg/L	0.01612	115.74%
Mg 279.077	-206.4	-0.0033	mg/L	0.00995	-0.0033	mg/L	0.00995	302.81%
Mn 257.610	623.9	0.0010	mg/L	0.00053	0.0010	mg/L	0.00053	53.19%
Ni 231.604	115.9	0.0011	mg/L	0.00108	0.0011	mg/L	0.00108	96.23%
Pb 220.353	-162.0	-0.0042	mg/L	0.00077	-0.0042	mg/L	0.00077	18.54%
Sb 206.836	8.5	0.0031	mg/L	0.00115	0.0031	mg/L	0.00115	37.22%

Se 196.026	8.4	0.0023	mg/L	0.00035	0.0023	mg/L	0.00035	15.40%
Tl 190.801	16.1	0.0019	mg/L	0.00036	0.0019	mg/L	0.00036	18.61%
V 292.402	-54.9	-0.0001	mg/L	0.00005	-0.0001	mg/L	0.00005	48.96%
Zn 206.200	984.7	0.0037	mg/L	0.00179	0.0037	mg/L	0.00179	48.24%
Na 330.237	2059.3	0.1651	mg/L	0.07912	0.1651	mg/L	0.07912	47.91%
Cd 226.502	172.5	0.0003	mg/L	0.00057	0.0003	mg/L	0.00057	178.20%
Ti 334.940	9678.0	0.0091	mg/L	0.00007	0.0091	mg/L	0.00007	0.79%
Ca 227.546	509977.4	487.49	mg/L	11.859	487.49	mg/L	11.859	2.43%

Sequence No.: 10
Sample ID: ICV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/14/2002 10:53:06 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	505900.3	1.1000	mg/L	0.00548	1.1000	mg/L	0.00548	0.50%
Al 308.215	653208.8	9.4764	mg/L	0.02543	9.4764	mg/L	0.02543	0.27%
As 188.979	1600.7	0.4938	mg/L	0.00123	0.4938	mg/L	0.00123	0.25%
Ba 233.527	1439897.4	10.187	mg/L	0.0110	10.187	mg/L	0.0110	0.11%
Be 313.107	2809527.8	0.2402	mg/L	0.00004	0.2402	mg/L	0.00004	0.02%
Co 228.616	170286.2	2.4550	mg/L	0.00881	2.4550	mg/L	0.00881	0.36%
Cr 267.716	473326.7	0.9626	mg/L	0.00135	0.9626	mg/L	0.00135	0.14%
Cu 324.752	812211.7	1.2160	mg/L	0.00197	1.2160	mg/L	0.00197	0.16%
Fe 273.955	338836.7	4.8717	mg/L	0.00282	4.8717	mg/L	0.00282	0.06%
Mg 279.077	1524055.4	24.323	mg/L	0.0231	24.323	mg/L	0.0231	0.09%
Mn 257.610	1516640.2	2.4374	mg/L	0.00863	2.4374	mg/L	0.00863	0.35%
Ni 231.604	250339.3	2.4186	mg/L	0.01695	2.4186	mg/L	0.01695	0.70%
Pb 220.353	15577.2	0.4863	mg/L	0.00258	0.4863	mg/L	0.00258	0.53%
Sb 206.836	3048.8	0.5620	mg/L	0.00648	0.5620	mg/L	0.00648	1.15%
Se 196.026	1723.7	0.4734	mg/L	0.00351	0.4734	mg/L	0.00351	0.74%
Tl 190.801	2160.9	0.4895	mg/L	0.00109	0.4895	mg/L	0.00109	0.22%
V 292.402	1229044.0	2.4132	mg/L	0.00197	2.4132	mg/L	0.00197	0.08%
Zn 206.200	427613.7	2.4531	mg/L	0.00115	2.4531	mg/L	0.00115	0.05%
Na 330.237	69504.6	23.132	mg/L	0.1462	23.132	mg/L	0.1462	0.63%
Cd 226.502	130197.8	0.2422	mg/L	0.00060	0.2422	mg/L	0.00060	0.25%
Ti 334.940	2623.7	0.0016	mg/L	0.00006	0.0016	mg/L	0.00006	3.77%
Ca 227.546	24576.1	23.322	mg/L	0.1541	23.322	mg/L	0.1541	0.66%

11/14/02

Analysis Begun

Start Time: 11/14/2002 11:04:07 AM
Logged In Analyst: optima2
Spectrometer Model: Optima 3100 XL

Plasma On Time: 11/14/2002 8:39:06 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\pe\administrator\Sample Information\Ev.sif
Results Data Set: A111402
Results Library: d:\pe\administrator\Results\Results.mdb

Sequence No.: 10
Sample ID: ICV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/14/2002 11:04:08 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	560200.4	1.2180	mg/L	0.00776	1.2180	mg/L	0.00776	0.64%
Al 308.215	680352.9	9.8702	mg/L	0.09107	9.8702	mg/L	0.09107	0.92%
As 188.979	1662.6	0.5129	mg/L	0.00242	0.5129	mg/L	0.00242	0.47%
Ba 233.527	1485273.5	10.508	mg/L	0.0918	10.508	mg/L	0.0918	0.87%
Be 313.107	2904696.7	0.2483	mg/L	0.00158	0.2483	mg/L	0.00158	0.63%
Co 228.616	176590.8	2.5459	mg/L	0.01127	2.5459	mg/L	0.01127	0.44%

Cr 267.716	491359.8	0.9993	mg/L	0.00684	0.9993	mg/L	0.00684	0.68%
Cu 324.752	840728.1	1.2586	mg/L	0.00883	1.2586	mg/L	0.00883	0.70%
Fe 273.955	351082.5	5.0478	mg/L	0.04325	5.0478	mg/L	0.04325	0.86%
Mg 279.077	1583027.2	25.264	mg/L	0.1790	25.264	mg/L	0.1790	0.71%
Mn 257.610	1571057.4	2.5248	mg/L	0.01360	2.5248	mg/L	0.01360	0.54%
Ni 231.604	259565.7	2.5077	mg/L	0.01385	2.5077	mg/L	0.01385	0.55%
Pb 220.353	16248.1	0.5073	mg/L	0.00043	0.5073	mg/L	0.00043	0.09%
Sb 206.836	2797.8	0.5161	mg/L	0.00661	0.5161	mg/L	0.00661	1.28%
Se 196.026	1782.6	0.4896	mg/L	0.00084	0.4896	mg/L	0.00084	0.17%
Tl 190.801	2240.5	0.5075	mg/L	0.00127	0.5075	mg/L	0.00127	0.25%
V 292.402	1273038.3	2.4996	mg/L	0.01924	2.4996	mg/L	0.01924	0.77%
Zn 206.200	443823.9	2.5461	mg/L	0.01502	2.5461	mg/L	0.01502	0.59%
Na 330.237	72677.2	24.188	mg/L	0.1034	24.188	mg/L	0.1034	0.43%
Cd 226.502	134668.5	0.2505	mg/L	0.00162	0.2505	mg/L	0.00162	0.65%
Ti 334.940	2426.7	0.0014	mg/L	0.00010	0.0014	mg/L	0.00010	6.77%
Ca 227.546	25655.2	24.347	mg/L	0.0749	24.347	mg/L	0.0749	0.31%

Sequence No.: 11
Sample ID: ICB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 11/14/2002 11:08:18 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	68.0	0.0001	mg/L	0.00021	0.0001	mg/L	0.00021	142.43%
Al 308.215	176.3	0.0026	mg/L	0.00043	0.0026	mg/L	0.00043	16.69%
As 188.979	2.2	0.0007	mg/L	0.00093	0.0007	mg/L	0.00093	139.60%
Ba 233.527	120.1	0.0009	mg/L	0.00007	0.0009	mg/L	0.00007	8.55%
Be 313.107	4489.2	0.0004	mg/L	0.00003	0.0004	mg/L	0.00003	8.21%
Co 228.616	-6.9	-0.0001	mg/L	0.00015	-0.0001	mg/L	0.00015	148.99%
Cr 267.716	-12.7	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	92.56%
Cu 324.752	2869.6	0.0043	mg/L	0.00041	0.0043	mg/L	0.00041	9.43%
Fe 273.955	-849.8	-0.0122	mg/L	0.00122	-0.0122	mg/L	0.00122	10.00%
Mg 279.077	-825.7	-0.0132	mg/L	0.00217	-0.0132	mg/L	0.00217	16.46%
Mn 257.610	-192.6	-0.0003	mg/L	0.00006	-0.0003	mg/L	0.00006	20.19%
Ni 231.604	-5.3	-0.0001	mg/L	0.00023	-0.0001	mg/L	0.00023	449.09%
Pb 220.353	-1.2	0.0000	mg/L	0.00004	0.0000	mg/L	0.00004	94.25%
Sb 206.836	25.5	0.0047	mg/L	0.00206	0.0047	mg/L	0.00206	43.99%
Se 196.026	-3.6	-0.0010	mg/L	0.00052	-0.0010	mg/L	0.00052	52.49%
Tl 190.801	7.8	0.0017	mg/L	0.00088	0.0017	mg/L	0.00088	50.23%
V 292.402	40.2	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	22.15%
Zn 206.200	264.8	0.0015	mg/L	0.00042	0.0015	mg/L	0.00042	27.84%
Na 330.237	87.8	0.0293	mg/L	0.04723	0.0293	mg/L	0.04723	161.28%
Cd 226.502	-33.3	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	17.20%
Ti 334.940	54.5	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	70.45%
Ca 227.546	-6.4	-0.0061	mg/L	0.00241	-0.0061	mg/L	0.00241	39.73%

Sequence No.: 12
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/14/2002 11:12:21 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-13039.5	-0.0058	mg/L	0.00040	-0.0058	mg/L	0.00040	6.98%
Al 308.215	33482757.6	485.75	mg/L	0.556	485.75	mg/L	0.556	0.11%
As 188.979	-40.8	0.0092	mg/L	0.00642	0.0092	mg/L	0.00642	69.63%
Ba 233.527	1736.0	0.0032	mg/L	0.00034	0.0032	mg/L	0.00034	10.83%
Be 313.107	2439.1	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	3.05%
Co 228.616	-6.0	-0.0010	mg/L	0.00021	-0.0010	mg/L	0.00021	21.27%
Cr 267.716	-1392.6	-0.0007	mg/L	0.00006	-0.0007	mg/L	0.00006	8.24%
Cu 324.752	-8472.8	0.0094	mg/L	0.00005	0.0094	mg/L	0.00005	0.53%
Fe 273.955	11885429.9	171.03	mg/L	0.300	171.03	mg/L	0.300	0.18%

Mg 279.077	29478915.4	470.23 mg/L	1.009	470.23 mg/L	1.009	0.21%
Mn 257.610	-10465.4	-0.0180 mg/L	0.00010	-0.0180 mg/L	0.00010	0.53%
Ni 231.604	-44.8	-0.0004 mg/L	0.00026	-0.0004 mg/L	0.00026	60.39%
Pb 220.353	-1358.7	0.0031 mg/L	0.00016	0.0031 mg/L	0.00016	5.30%
Sb 206.836	65.9	0.0222 mg/L	0.00127	0.0222 mg/L	0.00127	5.74%
Se 196.026	-209.0	-0.0032 mg/L	0.00879	-0.0032 mg/L	0.00879	270.87%
Tl 190.801	46.9	0.0077 mg/L	0.01135	0.0077 mg/L	0.01135	147.68%
V 292.402	8.6	-0.0014 mg/L	0.00016	-0.0014 mg/L	0.00016	11.55%
Zn 206.200	3190.7	-0.0060 mg/L	0.00021	-0.0060 mg/L	0.00021	3.49%
Na 330.237	933.8	0.0687 mg/L	0.06485	0.0687 mg/L	0.06485	94.46%
Cd 226.502	5068.2	0.0027 mg/L	0.00011	0.0027 mg/L	0.00011	3.95%
Ti 334.940	9609.8	0.0092 mg/L	0.00002	0.0092 mg/L	0.00002	0.27%
Ca 227.546	527724.3	503.19 mg/L	7.574	503.19 mg/L	7.574	1.51%

Sequence No.: 13
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 11/14/2002 11:15:00 AM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	81203.8	0.1988 mg/L	0.00052	0.1988 mg/L	0.00052	0.26%
Al 308.215	33243042.5	482.30 mg/L	1.125	482.30 mg/L	1.125	0.23%
As 188.979	273.7	0.1086 mg/L	0.00870	0.1086 mg/L	0.00870	8.01%
Ba 233.527	71748.2	0.4994 mg/L	0.00280	0.4994 mg/L	0.00280	0.56%
Be 313.107	5548370.2	0.4744 mg/L	0.00182	0.4744 mg/L	0.00182	0.38%
Co 228.616	30454.9	0.4381 mg/L	0.00366	0.4381 mg/L	0.00366	0.83%
Cr 267.716	226024.5	0.4617 mg/L	0.00301	0.4617 mg/L	0.00301	0.65%
Cu 324.752	329737.1	0.5101 mg/L	0.00328	0.5101 mg/L	0.00328	0.64%
Fe 273.955	118111997.9	169.83 mg/L	0.428	169.83 mg/L	0.428	0.25%
Mg 279.077	29220097.9	466.10 mg/L	1.253	466.10 mg/L	1.253	0.27%
Mn 257.610	283193.7	0.4540 mg/L	0.00217	0.4540 mg/L	0.00217	0.48%
Ni 231.604	89832.9	0.8679 mg/L	0.00315	0.8679 mg/L	0.00315	0.36%
Pb 220.353	13260.4	0.4581 mg/L	0.00186	0.4581 mg/L	0.00186	0.41%
Sb 206.836	3600.7	0.6700 mg/L	0.00430	0.6700 mg/L	0.00430	0.64%
Se 196.026	1632.2	0.5026 mg/L	0.01381	0.5026 mg/L	0.01381	2.75%
Tl 190.801	416.0	0.0913 mg/L	0.00705	0.0913 mg/L	0.00705	7.72%
V 292.402	243366.8	0.4770 mg/L	0.00313	0.4770 mg/L	0.00313	0.66%
Zn 206.200	155726.1	0.8699 mg/L	0.00328	0.8699 mg/L	0.00328	0.38%
Na 330.237	146472.9	48.584 mg/L	0.3333	48.584 mg/L	0.3333	0.69%
Cd 226.502	483456.9	0.8915 mg/L	0.00443	0.8915 mg/L	0.00443	0.50%
Ti 334.940	9822.1	0.0092 mg/L	0.00022	0.0092 mg/L	0.00022	2.33%
Ca 227.546	527338.0	502.79 mg/L	3.898	502.79 mg/L	3.898	0.78%

Sequence No.: 14
Sample ID: MB-4288,4291
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 17
Date Collected: 11/14/2002 11:17:44 AM

Sample Prep Volume:
Data Type: Original

Mean Data: MB-4288,4291

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	713.0	0.0015 mg/L	0.00002	0.0015 mg/L	0.00002	1.09%
Al 308.215	642.9	0.0093 mg/L	0.00326	0.0093 mg/L	0.00326	34.99%
As 188.979	4.4	0.0013 mg/L	0.00030	0.0013 mg/L	0.00030	22.46%
Ba 233.527	4308.4	0.0304 mg/L	0.00032	0.0304 mg/L	0.00032	1.06%
Be 313.107	3628.3	0.0003 mg/L	0.00002	0.0003 mg/L	0.00002	7.53%
Co 228.616	16.9	0.0002 mg/L	0.00005	0.0002 mg/L	0.00005	21.33%
Cr 267.716	175.3	0.0004 mg/L	0.00004	0.0004 mg/L	0.00004	11.42%
Cu 324.752	7090.1	0.0106 mg/L	0.00181	0.0106 mg/L	0.00181	17.04%
Fe 273.955	1687.1	0.0243 mg/L	0.00559	0.0243 mg/L	0.00559	23.06%
Mg 279.077	24543.3	0.3916 mg/L	0.00332	0.3916 mg/L	0.00332	0.85%
Mn 257.610	12730.5	0.0205 mg/L	0.00013	0.0205 mg/L	0.00013	0.63%
Ni 231.604	60.7	0.0006 mg/L	0.00004	0.0006 mg/L	0.00004	7.58%

Pb 220.353	14.2	0.0004 mg/L	0.00007	0.0004 mg/L	0.00007	15.13%
Sb 206.836	15.8	0.0029 mg/L	0.00061	0.0029 mg/L	0.00061	20.99%
Se 196.026	-5.3	-0.0015 mg/L	0.00031	-0.0015 mg/L	0.00031	20.93%
Tl 190.801	6.0	0.0014 mg/L	0.00112	0.0014 mg/L	0.00112	78.20%
V 292.402	203.1	0.0004 mg/L	0.00003	0.0004 mg/L	0.00003	6.53%
Zn 206.200	5052.3	0.0289 mg/L	0.00108	0.0289 mg/L	0.00108	3.73%
Na 330.237	33720.9	11.238 mg/L	0.1551	11.238 mg/L	0.1551	1.38%
Cd 226.502	-0.7	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	>999.9%
Ti 334.940	704.1	0.0004 mg/L	0.00008	0.0004 mg/L	0.00008	17.22%
Ca 227.546	4797.4	4.5854 mg/L	0.01464	4.5854 mg/L	0.01464	0.32%

Sequence No.: 15
Sample ID: LCS-4291,4291
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 18
Date Collected: 11/14/2002 11:21:47 AM

Sample Prep Volume:
Data Type: Original

Mean Data: LCS-4291,4291

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	501705.3	1.0908 mg/L	0.00064	1.0908 mg/L	0.00064	0.06%
Al 308.215	604784.2	8.7727 mg/L	0.04161	8.7727 mg/L	0.04161	0.47%
As 188.979	1519.6	0.4685 mg/L	0.00110	0.4685 mg/L	0.00110	0.23%
Ba 233.527	1295272.8	9.1637 mg/L	0.00822	9.1637 mg/L	0.00822	0.09%
Be 313.107	2604885.7	0.2227 mg/L	0.00020	0.2227 mg/L	0.00020	0.09%
Co 228.616	1550075.0	2.2357 mg/L	0.00295	2.2357 mg/L	0.00295	0.13%
Cr 267.716	434061.6	0.8827 mg/L	0.00365	0.8827 mg/L	0.00365	0.41%
Cu 324.752	747393.5	1.1194 mg/L	0.00141	1.1194 mg/L	0.00141	0.13%
Fe 273.955	316406.4	4.4629 mg/L	0.02037	4.4629 mg/L	0.02037	0.46%
Mg 279.077	1395340.4	22.269 mg/L	0.0394	22.269 mg/L	0.0394	0.18%
Mn 257.610	1403138.5	2.2550 mg/L	0.00104	2.2550 mg/L	0.00104	0.05%
Ni 231.604	227458.1	2.1975 mg/L	0.00298	2.1975 mg/L	0.00298	0.14%
Pb 220.353	14807.7	0.4623 mg/L	0.00027	0.4623 mg/L	0.00027	0.06%
Sb 206.836	2765.7	0.5099 mg/L	0.00244	0.5099 mg/L	0.00244	0.48%
Se 196.026	1614.2	0.4433 mg/L	0.00017	0.4433 mg/L	0.00017	0.04%
Tl 190.801	2035.2	0.4610 mg/L	0.00137	0.4610 mg/L	0.00137	0.30%
V 292.402	1132360.0	2.2234 mg/L	0.00278	2.2234 mg/L	0.00278	0.13%
Zn 206.200	392080.2	2.2492 mg/L	0.00337	2.2492 mg/L	0.00337	0.15%
Na 330.237	63056.5	20.985 mg/L	0.1842	20.985 mg/L	0.1842	0.88%
Cd 226.502	122272.3	0.2274 mg/L	0.00089	0.2274 mg/L	0.00089	0.39%
Ti 334.940	1494.9	0.0009 mg/L	0.00009	0.0009 mg/L	0.00009	10.54%
Ca 227.546	22681.3	21.525 mg/L	0.0235	21.525 mg/L	0.0235	0.11%

Sequence No.: 16
Sample ID: A1627-47A,4291
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 19
Date Collected: 11/14/2002 11:25:58 AM

Sample Prep Volume:
Data Type: Original

Mean Data: A1627-47A,4291

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	818.2	0.0006 mg/L	0.00001	0.0006 mg/L	0.00001	2.26%
Al 308.215	252733.7	3.6665 mg/L	0.02779	3.6665 mg/L	0.02779	0.76%
As 188.979	2.9	0.0009 mg/L	0.00060	0.0009 mg/L	0.00060	63.45%
Ba 233.527	4591.1	0.0323 mg/L	0.00002	0.0323 mg/L	0.00002	0.05%
Be 313.107	2792.0	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	14.69%
Co 228.616	58.7	0.0009 mg/L	0.00004	0.0009 mg/L	0.00004	4.79%
Cr 267.716	2924.2	0.0059 mg/L	0.00009	0.0059 mg/L	0.00009	1.56%
Cu 324.752	9068.2	0.0134 mg/L	0.00144	0.0134 mg/L	0.00144	10.68%
Fe 273.955	3097.8	0.0445 mg/L	0.00502	0.0445 mg/L	0.00502	11.28%
Mg 279.077	2934.8	0.0468 mg/L	0.00493	0.0468 mg/L	0.00493	10.53%
Mn 257.610	1688.7	0.0027 mg/L	0.00015	0.0027 mg/L	0.00015	5.34%
Ni 231.604	99.0	0.0010 mg/L	0.00004	0.0010 mg/L	0.00004	3.86%
Pb 220.353	-48.9	-0.0011 mg/L	0.00006	-0.0011 mg/L	0.00006	4.99%
Sb 206.836	10.9	0.0022 mg/L	0.00054	0.0022 mg/L	0.00054	24.25%
Se 196.026	-1.0	-0.0003 mg/L	0.00173	-0.0003 mg/L	0.00173	631.56%

Tl 190.801	3.0	0.0004 mg/L	0.00016	0.0004 mg/L	0.00016	41.29%
V 292.402	5114.3	0.0100 mg/L	0.00005	0.0100 mg/L	0.00005	0.47%
Zn 206.200	856.7	0.0047 mg/L	0.00051	0.0047 mg/L	0.00051	10.80%
Na 330.237	19877.7	6.5673 mg/L	0.10497	6.5673 mg/L	0.10497	1.60%
Cd 226.502	-33.1	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	26.07%
Ti 334.940	3876.4	0.0027 mg/L	0.00007	0.0027 mg/L	0.00007	2.52%
Ca 227.546	59160.4	56.552 mg/L	0.5922	56.552 mg/L	0.5922	1.05%

Sequence No.: 17
Sample ID: A1627-47ADUP,4291
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 20
Date Collected: 11/14/2002 11:30:02 AM

Sample Prep Volume:
Data Type: Original

Mean Data: A1627-47ADUP,4291

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	810.5	0.0005 mg/L	0.00004	0.0005 mg/L	0.00004	8.34%
Al 308.215	259676.1	3.7672 mg/L	0.00745	3.7672 mg/L	0.00745	0.20%
As 188.979	4.7	0.0015 mg/L	0.00019	0.0015 mg/L	0.00019	13.15%
Ba 233.527	4349.5	0.0306 mg/L	0.00012	0.0306 mg/L	0.00012	0.39%
Be 313.107	2150.6	0.0002 mg/L	0.00002	0.0002 mg/L	0.00002	8.73%
Co 228.616	48.7	0.0007 mg/L	0.00004	0.0007 mg/L	0.00004	5.79%
Cr 267.716	2956.6	0.0060 mg/L	0.00005	0.0060 mg/L	0.00005	0.81%
Cu 324.752	7397.0	0.0109 mg/L	0.00036	0.0109 mg/L	0.00036	3.29%
Fe 273.955	2864.9	0.0412 mg/L	0.00031	0.0412 mg/L	0.00031	0.76%
Mg 279.077	2707.9	0.0432 mg/L	0.00044	0.0432 mg/L	0.00044	1.02%
Mn 257.610	1539.5	0.0025 mg/L	0.00002	0.0025 mg/L	0.00002	0.78%
Ni 231.604	90.2	0.0009 mg/L	0.00004	0.0009 mg/L	0.00004	4.73%
Pb 220.353	-34.0	-0.0012 mg/L	0.00004	-0.0012 mg/L	0.00004	3.49%
Sb 206.836	6.5	0.0014 mg/L	0.00086	0.0014 mg/L	0.00086	61.42%
Se 196.026	-2.9	-0.0008 mg/L	0.00076	-0.0008 mg/L	0.00076	96.90%
Tl 190.801	0.8	-0.0001 mg/L	0.00008	-0.0001 mg/L	0.00008	62.94%
V 292.402	5136.3	0.0101 mg/L	0.00006	0.0101 mg/L	0.00006	0.62%
Zn 206.200	695.2	0.0038 mg/L	0.00018	0.0038 mg/L	0.00018	4.69%
Na 330.237	20325.4	6.7147 mg/L	0.14956	6.7147 mg/L	0.14956	2.23%
Cd 226.502	-42.7	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	13.76%
Ti 334.940	3960.4	0.0027 mg/L	0.00008	0.0027 mg/L	0.00008	3.04%
Ca 227.546	60944.7	58.260 mg/L	0.0860	58.260 mg/L	0.0860	0.15%

Sequence No.: 18
Sample ID: A1627-47ASD,4291
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 21
Date Collected: 11/14/2002 11:34:07 AM

Sample Prep Volume:
Data Type: Original

Mean Data: A1627-47ASD,4291

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	177.0	0.0001 mg/L	0.00032	0.0001 mg/L	0.00032	219.92%
Al 308.215	50396.5	0.7311 mg/L	0.01524	0.7311 mg/L	0.01524	2.08%
As 188.979	4.2	0.0013 mg/L	0.00047	0.0013 mg/L	0.00047	36.57%
Ba 233.527	876.1	0.0062 mg/L	0.00014	0.0062 mg/L	0.00014	2.27%
Be 313.107	1724.8	0.0001 mg/L	0.00000	0.0001 mg/L	0.00000	0.54%
Co 228.616	9.5	0.0001 mg/L	0.00007	0.0001 mg/L	0.00007	50.08%
Cr 267.716	576.6	0.0012 mg/L	0.00003	0.0012 mg/L	0.00003	2.29%
Cu 324.752	1399.5	0.0021 mg/L	0.00022	0.0021 mg/L	0.00022	10.68%
Fe 273.955	-22.6	-0.0003 mg/L	0.00309	-0.0003 mg/L	0.00309	949.78%
Mg 279.077	-29.3	-0.0005 mg/L	0.00114	-0.0005 mg/L	0.00114	246.59%
Mn 257.610	386.2	0.0006 mg/L	0.00005	0.0006 mg/L	0.00005	8.50%
Ni 231.604	-6.4	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	16.41%
Pb 220.353	-21.2	-0.0006 mg/L	0.00013	-0.0006 mg/L	0.00013	22.53%
Sb 206.836	4.6	0.0009 mg/L	0.00001	0.0009 mg/L	0.00001	0.65%
Se 196.026	-2.5	-0.0007 mg/L	0.00070	-0.0007 mg/L	0.00070	102.03%
Tl 190.801	6.5	0.0014 mg/L	0.00048	0.0014 mg/L	0.00048	33.99%
V 292.402	1003.5	0.0020 mg/L	0.00011	0.0020 mg/L	0.00011	5.42%
Zn 206.200	200.0	0.0011 mg/L	0.00012	0.0011 mg/L	0.00012	10.83%

Na 330.237	3657.2	1.2075 mg/L	0.02921	1.2075 mg/L	0.02921	2.42%
Cd 226.502	-10.8	0.0000 mg/L	0.00000	0.0000 mg/L	0.00000	20.25%
Ti 334.940	1141.4	0.0008 mg/L	0.00013	0.0008 mg/L	0.00013	17.63%
Ca 227.546	11665.0	11.151 mg/L	0.0391	11.151 mg/L	0.0391	0.35%

Sequence No.: 19
Sample ID: MB-4311,4311
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 22
Date Collected: 11/14/2002 11:38:12 AM

Sample Prep Volume:
Data Type: Original

Mean Data: MB-4311,4311

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	194.8	0.0004 mg/L	0.00032	0.0004 mg/L	0.00032	74.79%
Al 308.215	639.0	0.0093 mg/L	0.00679	0.0093 mg/L	0.00679	73.21%
As 188.979	1.7	0.0005 mg/L	0.00017	0.0005 mg/L	0.00017	32.74%
Ba 233.527	526.2	0.0037 mg/L	0.00058	0.0037 mg/L	0.00058	15.64%
Be 313.107	1429.5	0.0001 mg/L	0.00000	0.0001 mg/L	0.00000	2.44%
Co 228.616	2.3	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	54.15%
Cr 267.716	17.5	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	29.16%
Cu 324.752	870.4	0.0013 mg/L	0.00054	0.0013 mg/L	0.00054	41.18%
Fe 273.955	33.7	0.0005 mg/L	0.00027	0.0005 mg/L	0.00027	55.49%
Mg 279.077	-918.5	-0.0146 mg/L	0.00043	-0.0146 mg/L	0.00043	2.92%
Mn 257.610	480.7	0.0008 mg/L	0.00002	0.0008 mg/L	0.00002	2.39%
Ni 231.604	-45.1	-0.0004 mg/L	0.00003	-0.0004 mg/L	0.00003	5.74%
Pb 220.353	4.1	0.0001 mg/L	0.00013	0.0001 mg/L	0.00013	102.75%
Sb 206.836	6.2	0.0011 mg/L	0.00044	0.0011 mg/L	0.00044	38.75%
Se 196.026	-8.3	-0.0023 mg/L	0.00075	-0.0023 mg/L	0.00075	32.80%
Tl 190.801	3.3	0.0007 mg/L	0.00040	0.0007 mg/L	0.00040	54.15%
V 292.402	-2.4	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	496.35%
Zn 206.200	2.0	0.0000 mg/L	0.00020	0.0000 mg/L	0.00020	>999.9%
Na 330.237	140.9	0.0470 mg/L	0.12167	0.0470 mg/L	0.12167	258.86%
Cd 226.502	-37.0	-0.0001 mg/L	0.00003	-0.0001 mg/L	0.00003	47.19%
Ti 334.940	225.0	0.0001 mg/L	0.00010	0.0001 mg/L	0.00010	72.36%
Ca 227.546	13.9	0.0133 mg/L	0.00139	0.0133 mg/L	0.00139	10.46%

Sequence No.: 20
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/14/2002 11:42:17 AM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	561421.0	1.2211 mg/L	0.00007	1.2211 mg/L	0.00007	0.01%
Al 308.215	685659.6	9.9472 mg/L	0.00008	9.9472 mg/L	0.00008	0.00%
As 188.979	1693.3	0.5223 mg/L	0.00157	0.5223 mg/L	0.00157	0.30%
Ba 233.527	1504994.6	10.647 mg/L	0.0405	10.647 mg/L	0.0405	0.38%
Be 313.107	2952328.5	0.2524 mg/L	0.00117	0.2524 mg/L	0.00117	0.46%
Co 228.616	176775.8	2.5486 mg/L	0.00376	2.5486 mg/L	0.00376	0.15%
Cr 267.716	495082.1	1.0068 mg/L	0.00244	1.0068 mg/L	0.00244	0.24%
Cu 324.752	842864.3	1.2618 mg/L	0.00001	1.2618 mg/L	0.00001	0.00%
Fe 273.955	354785.3	5.1010 mg/L	0.01440	5.1010 mg/L	0.01440	0.28%
Mg 279.077	1600187.5	25.538 mg/L	0.0736	25.538 mg/L	0.0736	0.29%
Mn 257.610	1575590.8	2.5321 mg/L	0.00283	2.5321 mg/L	0.00283	0.11%
Ni 231.604	259881.9	2.5108 mg/L	0.00090	2.5108 mg/L	0.00090	0.04%
Pb 220.353	16444.2	0.5134 mg/L	0.00124	0.5134 mg/L	0.00124	0.24%
Sb 206.836	2825.1	0.5212 mg/L	0.00667	0.5212 mg/L	0.00667	1.28%
Se 196.026	1815.8	0.4987 mg/L	0.00036	0.4987 mg/L	0.00036	0.07%
Tl 190.801	2263.0	0.5125 mg/L	0.00161	0.5125 mg/L	0.00161	0.31%
V 292.402	1285310.7	2.5237 mg/L	0.00753	2.5237 mg/L	0.00753	0.30%
Zn 206.200	447417.7	2.5667 mg/L	0.00246	2.5667 mg/L	0.00246	0.10%
Na 330.237	72872.1	24.252 mg/L	0.0592	24.252 mg/L	0.0592	0.24%
Cd 226.502	135812.3	0.2526 mg/L	0.00086	0.2526 mg/L	0.00086	0.34%
Ti 334.940	2366.4	0.0014 mg/L	0.00002	0.0014 mg/L	0.00002	1.29%

Ca 227.546	26023.3	24.698	mg/L	0.0502	24.698	mg/L	0.0502 0.20%

Sequence No.: 21
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 11/14/2002 11:46:28 AM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-19.1	0.0000	mg/L	0.00023	0.0000	mg/L	0.00023	567.71%
Al 308.215	271.5	0.0039	mg/L	0.00198	0.0039	mg/L	0.00198	50.19%
As 188.979	-0.1	0.0000	mg/L	0.00098	0.0000	mg/L	0.00098	>999.9%
Ba 233.527	73.9	0.0005	mg/L	0.00011	0.0005	mg/L	0.00011	20.60%
Be 313.107	1423.9	0.0002	mg/L	0.00002	0.0002	mg/L	0.00002	12.48%
Co 228.616	15.3	0.0002	mg/L	0.00045	0.0002	mg/L	0.00045	201.64%
Cr 267.716	84.5	0.0002	mg/L	0.00028	0.0002	mg/L	0.00028	163.31%
Cu 324.752	1084.1	0.0016	mg/L	0.00053	0.0016	mg/L	0.00053	32.43%
Fe 273.955	258.1	0.0037	mg/L	0.01788	0.0037	mg/L	0.01788	481.88%
Mg 279.077	-119.6	-0.0019	mg/L	0.01110	-0.0019	mg/L	0.01110	582.37%
Mn 257.610	158.2	0.0003	mg/L	0.00065	0.0003	mg/L	0.00065	256.32%
Ni 231.604	22.3	0.0002	mg/L	0.00053	0.0002	mg/L	0.00053	247.76%
Pb 220.353	7.8	0.0002	mg/L	0.00019	0.0002	mg/L	0.00019	77.23%
Sb 206.836	18.1	0.0004	mg/L	0.00028	0.0004	mg/L	0.00028	9.02%
Se 196.026	-3.5	-0.0010	mg/L	0.00100	-0.0010	mg/L	0.00100	102.99%
Tl 190.801	3.5	0.0008	mg/L	0.00016	0.0008	mg/L	0.00016	19.72%
V 292.402	78.5	0.0002	mg/L	0.00010	0.0002	mg/L	0.00010	65.37%
Zn 206.200	182.3	0.0010	mg/L	0.00100	0.0010	mg/L	0.00100	95.47%
Na 330.237	-123.4	-0.0411	mg/L	0.06110	-0.0411	mg/L	0.06110	148.58%
Cd 226.502	41.4	0.0001	mg/L	0.00016	0.0001	mg/L	0.00016	205.69%
Ti 334.940	26.5	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	307.23%
Ca 227.546	-2.3	-0.0023	mg/L	0.01264	-0.0023	mg/L	0.01264	560.99%

Sequence No.: 22
Sample ID: LCS-4311,4311
Analyst:
Sample Wt:
Dilution:

LCSW

Autosampler Location: 23
Date Collected: 11/14/2002 11:50:31 AM

Sample Prep Volume:
Data Type: Original

Mean Data: LCS-4311,4311

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	514858.8	1.1194	mg/L	0.00275	1.1194	mg/L	0.00275	0.25%
Al 308.215	629930.7	9.1387	mg/L	0.09674	9.1387	mg/L	0.09674	1.06%
As 188.979	1646.9	0.5074	mg/L	0.00122	0.5074	mg/L	0.00122	0.24%
Ba 233.527	1331836.8	9.4224	mg/L	0.02330	9.4224	mg/L	0.02330	0.25%
Be 313.107	2685479.7	0.2296	mg/L	0.00042	0.2296	mg/L	0.00042	0.18%
Co 228.616	160707.9	2.3169	mg/L	0.00697	2.3169	mg/L	0.00697	0.30%
Cr 267.716	451373.5	0.9179	mg/L	0.00455	0.9179	mg/L	0.00455	0.50%
Cu 324.752	768611.1	1.1507	mg/L	0.00291	1.1507	mg/L	0.00291	0.25%
Fe 273.955	321681.9	4.6250	mg/L	0.02805	4.6250	mg/L	0.02805	0.61%
Mg 279.077	1437921.6	22.949	mg/L	0.0663	22.949	mg/L	0.0663	0.29%
Mn 257.610	1435061.4	2.3063	mg/L	0.00618	2.3063	mg/L	0.00618	0.27%
Ni 231.604	235099.1	2.2713	mg/L	0.01666	2.2713	mg/L	0.01666	0.73%
Pb 220.353	15663.9	0.4890	mg/L	0.00176	0.4890	mg/L	0.00176	0.36%
Sb 206.836	2903.2	0.5351	mg/L	0.00182	0.5351	mg/L	0.00182	0.34%
Se 196.026	1740.9	0.4782	mg/L	0.00006	0.4782	mg/L	0.00006	0.01%
Tl 190.801	2169.1	0.4911	mg/L	0.00317	0.4911	mg/L	0.00317	0.65%
V 292.402	1162228.2	2.2820	mg/L	0.00437	2.2820	mg/L	0.00437	0.19%
Zn 206.200	406463.1	2.3317	mg/L	0.00699	2.3317	mg/L	0.00699	0.30%
Na 330.237	65382.0	21.759	mg/L	0.2773	21.759	mg/L	0.2773	1.27%
Cd 226.502	132120.6	0.2457	mg/L	0.00111	0.2457	mg/L	0.00111	0.45%
Ti 334.940	1522.0	0.0009	mg/L	0.00002	0.0009	mg/L	0.00002	2.50%
Ca 227.546	23608.1	22.406	mg/L	0.0960	22.406	mg/L	0.0960	0.43%

001279

Sequence No.: 23
Sample ID: A1627-36A,4311
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 24
Date Collected: 11/14/2002 11:54:44 AM

Sample Prep Volume:
Data Type: Original

Mean Data: A1627-36A,4311

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	325.2	0.0007	mg/L	0.00001	0.0007	mg/L	0.00001	1.53%
Al 308.215	176.9	0.0026	mg/L	0.00024	0.0026	mg/L	0.00024	9.35%
As 188.979	1.5	0.0005	mg/L	0.00058	0.0005	mg/L	0.00058	128.01%
Ba 233.527	1140.0	0.0081	mg/L	0.00019	0.0081	mg/L	0.00019	2.41%
Be 313.107	1747.8	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	14.95%
Co 228.616	1.5	0.0000	mg/L	0.00004	0.0000	mg/L	0.00004	198.95%
Cr 267.716	257.2	0.0005	mg/L	0.00002	0.0005	mg/L	0.00002	2.90%
Cu 324.752	2953.5	0.0044	mg/L	0.00087	0.0044	mg/L	0.00087	19.68%
Fe 273.955	542.8	0.0078	mg/L	0.00009	0.0078	mg/L	0.00009	1.16%
Mg 279.077	-829.3	-0.0132	mg/L	0.00079	-0.0132	mg/L	0.00079	5.94%
Mn 257.610	660.5	0.0011	mg/L	0.00001	0.0011	mg/L	0.00001	0.50%
Ni 231.604	-18.9	-0.0002	mg/L	0.00008	-0.0002	mg/L	0.00008	44.06%
Pb 220.353	5.6	0.0002	mg/L	0.00041	0.0002	mg/L	0.00041	233.17%
Sb 206.836	3.7	0.0007	mg/L	0.00076	0.0007	mg/L	0.00076	111.39%
Se 196.026	-0.0	0.0000	mg/L	0.00077	0.0000	mg/L	0.00077	>999.9%
Tl 190.801	5.8	0.0013	mg/L	0.00056	0.0013	mg/L	0.00056	42.91%
V 292.402	29.5	0.0001	mg/L	0.00012	0.0001	mg/L	0.00012	209.84%
Zn 206.200	276.5	0.0016	mg/L	0.00043	0.0016	mg/L	0.00043	27.40%
Na 330.237	1270.3	0.4236	mg/L	0.00078	0.4236	mg/L	0.00078	0.18%
Cd 226.502	-42.6	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	10.85%
Ti 334.940	261.4	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	4.09%
Ca 227.546	15.1	0.0143	mg/L	0.02465	0.0143	mg/L	0.02465	172.77%

Sequence No.: 24
Sample ID: A1627-37A,4311
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 25
Date Collected: 11/14/2002 11:58:43 AM

Sample Prep Volume:
Data Type: Original

Mean Data: A1627-37A,4311

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	92.0	0.0002	mg/L	0.00023	0.0002	mg/L	0.00023	116.69%
Al 308.215	718.2	0.0104	mg/L	0.00151	0.0104	mg/L	0.00151	14.48%
As 188.979	-0.1	0.0000	mg/L	0.00184	0.0000	mg/L	0.00184	>999.9%
Ba 233.527	1035.1	0.0073	mg/L	0.00002	0.0073	mg/L	0.00002	0.31%
Be 313.107	1223.2	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	10.36%
Co 228.616	3.6	0.0001	mg/L	0.00009	0.0001	mg/L	0.00009	175.90%
Cr 267.716	69.6	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	20.21%
Cu 324.752	2659.2	0.0040	mg/L	0.00008	0.0040	mg/L	0.00008	2.07%
Fe 273.955	880.8	0.0127	mg/L	0.00248	0.0127	mg/L	0.00248	19.61%
Mg 279.077	-224.1	-0.0036	mg/L	0.00480	-0.0036	mg/L	0.00480	134.44%
Mn 257.610	766.1	0.0012	mg/L	0.00010	0.0012	mg/L	0.00010	7.93%
Ni 231.604	42.2	0.0004	mg/L	0.00010	0.0004	mg/L	0.00010	24.73%
Pb 220.353	1.5	0.0000	mg/L	0.00011	0.0000	mg/L	0.00011	234.08%
Sb 206.836	6.7	0.0012	mg/L	0.00016	0.0012	mg/L	0.00016	12.58%
Se 196.026	-1.8	-0.0005	mg/L	0.00063	-0.0005	mg/L	0.00063	124.15%
Tl 190.801	2.3	0.0005	mg/L	0.00056	0.0005	mg/L	0.00056	109.01%
V 292.402	55.3	0.0001	mg/L	0.00017	0.0001	mg/L	0.00017	153.66%
Zn 206.200	1222.1	0.0070	mg/L	0.00007	0.0070	mg/L	0.00007	0.99%
Na 330.237	1887.3	0.6293	mg/L	0.03479	0.6293	mg/L	0.03479	5.53%
Cd 226.502	-17.3	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	93.23%
Ti 334.940	500.8	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	2.81%
Ca 227.546	57.9	0.0552	mg/L	0.00504	0.0552	mg/L	0.00504	9.12%

Sequence No.: 25
Sample ID: MB-4310,4310
Analyst:

Autosampler Location: 26
Date Collected: 11/14/2002 12:02:42 PM

001280

Sample Wt:
Dilution:

Sample Prep Volume:
Data Type: Original

Mean Data: MB-4310,4310

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	129.5	0.0003	mg/L	0.00003	0.0003	mg/L	0.00003	12.37%
Al 308.215	-38.9	-0.0006	mg/L	0.00073	-0.0006	mg/L	0.00073	130.05%
As 188.979	-0.7	-0.0002	mg/L	0.00174	-0.0002	mg/L	0.00174	834.95%
Ba 233.527	911.6	0.0064	mg/L	0.00039	0.0064	mg/L	0.00039	6.05%
Be 313.107	1169.0	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	4.70%
Co 228.616	3.3	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	39.58%
Cr 267.716	44.4	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	11.31%
Cu 324.752	655.1	0.0010	mg/L	0.00042	0.0010	mg/L	0.00042	42.84%
Fe 273.955	643.0	0.0092	mg/L	0.00168	0.0092	mg/L	0.00168	18.12%
Mg 279.077	-681.8	-0.0109	mg/L	0.00058	-0.0109	mg/L	0.00058	5.30%
Mn 257.610	645.6	0.0010	mg/L	0.00005	0.0010	mg/L	0.00005	5.06%
Ni 231.604	-31.3	-0.0003	mg/L	0.00001	-0.0003	mg/L	0.00001	3.53%
Pb 220.353	5.3	0.0002	mg/L	0.00009	0.0002	mg/L	0.00009	56.38%
Sb 206.836	6.1	0.0011	mg/L	0.00040	0.0011	mg/L	0.00040	35.55%
Se 196.026	-3.3	-0.0009	mg/L	0.00032	-0.0009	mg/L	0.00032	35.26%
Tl 190.801	4.3	0.0010	mg/L	0.00008	0.0010	mg/L	0.00008	8.30%
V 292.402	-24.0	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	37.83%
Zn 206.200	-81.8	-0.0005	mg/L	0.00008	-0.0005	mg/L	0.00008	17.12%
Na 330.237	229.1	0.0764	mg/L	0.01729	0.0764	mg/L	0.01729	22.62%
Cd 226.502	-17.4	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	75.33%
Ti 334.940	144.9	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	28.18%
Ca 227.546	-10.8	-0.0104	mg/L	0.00980	-0.0104	mg/L	0.00980	94.46%

Sequence No.: 26
Sample ID: LCS-4310,4310
Analyst:
Sample Wt:
Dilution:

LCSW

Autosampler Location: 27
Date Collected: 11/14/2002 12:06:41 PM

Sample Prep Volume:
Data Type: Original

Mean Data: LCS-4310,4310

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	508060.4	1.1046	mg/L	0.02497	1.1046	mg/L	0.02497	2.26%
Al 308.215	624876.7	9.0654	mg/L	0.21974	9.0654	mg/L	0.21974	2.42%
As 188.979	1630.4	0.5023	mg/L	0.00223	0.5023	mg/L	0.00223	0.44%
Ba 233.527	1322689.4	9.3577	mg/L	0.16265	9.3577	mg/L	0.16265	1.74%
Be 313.107	2692955.4	0.2302	mg/L	0.00183	0.2302	mg/L	0.00183	0.79%
Co 228.616	158645.8	2.2872	mg/L	0.04319	2.2872	mg/L	0.04319	1.89%
Cr 267.716	446467.5	0.9080	mg/L	0.01699	0.9080	mg/L	0.01699	1.87%
Cu 324.752	763270.6	1.1427	mg/L	0.02913	1.1427	mg/L	0.02913	2.55%
Fe 273.955	319792.0	4.5979	mg/L	0.08378	4.5979	mg/L	0.08378	1.82%
Mg 279.077	1428494.9	22.798	mg/L	0.3669	22.798	mg/L	0.3669	1.61%
Mn 257.610	1423214.7	2.2872	mg/L	0.04478	2.2872	mg/L	0.04478	1.96%
Ni 231.604	232411.4	2.2454	mg/L	0.04462	2.2454	mg/L	0.04462	1.99%
Pb 220.353	15529.7	0.4848	mg/L	0.00034	0.4848	mg/L	0.00034	0.07%
Sb 206.836	2856.4	0.5265	mg/L	0.00114	0.5265	mg/L	0.00114	0.22%
Se 196.026	1718.7	0.4721	mg/L	0.00153	0.4721	mg/L	0.00153	0.32%
Tl 190.801	2147.5	0.4862	mg/L	0.00218	0.4862	mg/L	0.00218	0.45%
V 292.402	1156163.4	2.2701	mg/L	0.04430	2.2701	mg/L	0.04430	1.95%
Zn 206.200	403764.6	2.3163	mg/L	0.03506	2.3163	mg/L	0.03506	1.51%
Na 330.237	64926.1	21.608	mg/L	0.5337	21.608	mg/L	0.5337	2.47%
Cd 226.502	130634.5	0.2429	mg/L	0.00434	0.2429	mg/L	0.00434	1.79%
Ti 334.940	1417.5	0.0008	mg/L	0.00002	0.0008	mg/L	0.00002	2.86%
Ca 227.546	23282.0	22.105	mg/L	0.0460	22.105	mg/L	0.0460	0.21%

Sequence No.: 27
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/14/2002 12:10:50 PM

Sample Prep Volume:
Data Type: Original

001281

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-13199.5	-0.0059	mg/L	0.00002	-0.0059	mg/L	0.00002	0.30%
Al 308.215	53776524.0	490.01	mg/L	2.111	490.01	mg/L	2.111	0.43%
As 188.979	-64.3	0.0024	mg/L	0.00634	0.0024	mg/L	0.00634	269.63%
Ba 233.527	1715.0	0.0029	mg/L	0.00014	0.0029	mg/L	0.00014	4.65%
Be 313.107	568.4	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	4.11%
Co 228.616	66.9	0.0000	mg/L	0.00050	0.0000	mg/L	0.00050	>999.9%
Cr 267.716	-1098.8	-0.0001	mg/L	0.00101	-0.0001	mg/L	0.00101	>999.9%
Cu 324.752	-10611.0	0.0065	mg/L	0.00011	0.0065	mg/L	0.00011	1.67%
Fe 273.955	172025300.4	172.90	mg/L	0.334	172.90	mg/L	0.334	0.19%
Mg 279.077	29551419.2	475.85	mg/L	0.793	475.85	mg/L	0.793	0.17%
Mn 257.610	-10701.5	-0.0185	mg/L	0.00004	-0.0185	mg/L	0.00004	0.22%
Ni 231.604	1.6	0.0000	mg/L	0.00130	0.0000	mg/L	0.00130	>999.9%
Pb 220.353	-1315.8	0.0045	mg/L	0.00259	0.0045	mg/L	0.00259	57.69%
Sb 206.836	88.7	0.0191	mg/L	0.00223	0.0191	mg/L	0.00223	11.66%
Se 196.026	-2183	-0.0052	mg/L	0.00487	-0.0052	mg/L	0.00487	93.55%
Tl 190.801	49.0	0.0081	mg/L	0.00340	0.0081	mg/L	0.00340	41.79%
V 292.402	2.3	-0.0014	mg/L	0.00013	-0.0014	mg/L	0.00013	9.27%
Zn 206.200	3229.4	-0.0061	mg/L	0.00161	-0.0061	mg/L	0.00161	26.50%
Na 330.237	1143.6	0.1336	mg/L	0.03916	0.1336	mg/L	0.03916	29.32%
Cd 226.502	5034.7	0.0026	mg/L	0.00009	0.0026	mg/L	0.00009	3.51%
Ti 334.940	9689.0	0.0093	mg/L	0.00003	0.0093	mg/L	0.00003	0.35%
Ca 227.546	535822.6	510.92	mg/L	0.165	510.92	mg/L	0.165	0.03%

Sequence No.: 28
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 11/14/2002 12:13:29 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	79871.9	0.1959	mg/L	0.00026	0.1959	mg/L	0.00026	0.13%
Al 308.215	33051438.6	479.49	mg/L	0.239	479.49	mg/L	0.239	0.05%
As 188.979	273.0	0.1084	mg/L	0.00509	0.1084	mg/L	0.00509	4.70%
Ba 233.527	72073.2	0.5017	mg/L	0.00159	0.5017	mg/L	0.00159	0.32%
Be 313.107	5527695.1	0.4726	mg/L	0.00047	0.4726	mg/L	0.00047	0.10%
Co 228.616	30084.7	0.4328	mg/L	0.00330	0.4328	mg/L	0.00330	0.76%
Cr 267.716	225361.3	0.4604	mg/L	0.00103	0.4604	mg/L	0.00103	0.22%
Cu 324.752	321204.9	0.5032	mg/L	0.00028	0.5032	mg/L	0.00028	0.05%
Fe 273.955	11789304.7	169.49	mg/L	0.075	169.49	mg/L	0.075	0.04%
Mg 279.077	29188786.6	465.60	mg/L	0.163	465.60	mg/L	0.163	0.04%
Mn 257.610	280500.2	0.4497	mg/L	0.00025	0.4497	mg/L	0.00025	0.06%
Ni 231.604	88330.9	0.8536	mg/L	0.00337	0.8536	mg/L	0.00337	0.40%
Pb 220.353	13340.6	0.4606	mg/L	0.00475	0.4606	mg/L	0.00475	1.03%
Sb 206.836	3497.0	0.6509	mg/L	0.00081	0.6509	mg/L	0.00081	0.12%
Se 196.026	1549.8	0.4798	mg/L	0.00158	0.4798	mg/L	0.00158	0.33%
Tl 190.801	433.3	0.0974	mg/L	0.00160	0.0974	mg/L	0.00160	1.64%
V 292.402	243433.9	0.4771	mg/L	0.00055	0.4771	mg/L	0.00055	0.11%
Zn 206.200	155168.8	0.8668	mg/L	0.00086	0.8668	mg/L	0.00086	0.10%
Na 330.237	145587.3	48.290	mg/L	0.0082	48.290	mg/L	0.0082	0.02%
Cd 226.502	481857.2	0.8885	mg/L	0.00145	0.8885	mg/L	0.00145	0.16%
Ti 334.940	9502.3	0.0090	mg/L	0.00004	0.0090	mg/L	0.00004	0.44%
Ca 227.546	525625.9	501.16	mg/L	1.568	501.16	mg/L	1.568	0.31%

Sequence No.: 29
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/14/2002 12:16:13 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected	Calib			Sample			

001282

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Ag 328.068	547216.5	1.1898	mg/L	0.01728	1.1898	mg/L	0.01728	1.45%
Al 308.215	669491.0	9.7126	mg/L	0.15251	9.7126	mg/L	0.15251	1.57%
As 188.979	1660.3	0.5121	mg/L	0.00119	0.5121	mg/L	0.00119	0.23%
Ba 233.527	1474079.5	10.429	mg/L	0.1261	10.429	mg/L	0.1261	1.21%
Be 313.107	2874296.5	0.2457	mg/L	0.00097	0.2457	mg/L	0.00097	0.39%
Co 228.616	172892.7	2.4926	mg/L	0.02696	2.4926	mg/L	0.02696	1.08%
Cr 267.716	484009.7	0.9843	mg/L	0.01153	0.9843	mg/L	0.01153	1.17%
Cu 324.752	822942.6	1.2320	mg/L	0.01883	1.2320	mg/L	0.01883	1.53%
Fe 273.955	347776.9	5.0002	mg/L	0.06020	5.0002	mg/L	0.06020	1.20%
Mg 279.077	1569295.5	25.045	mg/L	0.2264	25.045	mg/L	0.2264	0.90%
Mn 257.610	1539900.8	2.4748	mg/L	0.02945	2.4748	mg/L	0.02945	1.19%
Ni 231.604	253813.5	2.4521	mg/L	0.02733	2.4521	mg/L	0.02733	1.11%
Pb 220.353	16099.2	0.5026	mg/L	0.00132	0.5026	mg/L	0.00132	0.26%
Sb 206.836	2734.9	0.5046	mg/L	0.00579	0.5046	mg/L	0.00579	1.15%
Se 196.026	1768.4	0.4857	mg/L	0.00133	0.4857	mg/L	0.00133	0.27%
Tl 190.801	2204.9	0.4994	mg/L	0.00189	0.4994	mg/L	0.00189	0.38%
V 292.402	1255476.6	2.4651	mg/L	0.03211	2.4651	mg/L	0.03211	1.30%
Zn 206.200	438918.8	2.5179	mg/L	0.01796	2.5179	mg/L	0.01796	0.71%
Na 330.237	71239.4	23.709	mg/L	0.3704	23.709	mg/L	0.3704	1.56%
Cd 226.502	132890.9	0.2472	mg/L	0.00259	0.2472	mg/L	0.00259	1.05%
Ti 334.940	2473.5	0.0015	mg/L	0.00001	0.0015	mg/L	0.00001	1.01%
Ca 227.546	25265.9	23.978	mg/L	0.0623	23.978	mg/L	0.0623	0.26%

Sequence No.: 30 **Autosampler Location:** 4
Sample ID: CCB **Date Collected:** 11/14/2002 12:20:24 PM
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type:** Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-64.2	-0.0001	mg/L	0.00030	-0.0001	mg/L	0.00030	212.05%
Al 308.215	1209.4	0.0175	mg/L	0.01632	0.0175	mg/L	0.01632	92.99%
As 188.979	3.0	0.0009	mg/L	0.00084	0.0009	mg/L	0.00084	91.20%
Ba 233.527	99.5	0.0007	mg/L	0.00003	0.0007	mg/L	0.00003	3.95%
Be 313.107	2529.5	0.0002	mg/L	0.00013	0.0002	mg/L	0.00013	62.02%
Co 228.616	-5.1	-0.0001	mg/L	0.00014	-0.0001	mg/L	0.00014	185.82%
Cr 267.716	-12.8	0.0000	mg/L	0.00008	0.0000	mg/L	0.00008	322.39%
Cu 324.752	1263.5	0.0019	mg/L	0.00017	0.0019	mg/L	0.00017	8.95%
Fe 273.955	-603.9	-0.0087	mg/L	0.00542	-0.0087	mg/L	0.00542	62.40%
Mg 279.077	-548.3	-0.0087	mg/L	0.00743	-0.0087	mg/L	0.00743	84.95%
Mn 257.610	-155.3	-0.0002	mg/L	0.00020	-0.0002	mg/L	0.00020	79.07%
Ni 231.604	-3.9	0.0000	mg/L	0.00011	0.0000	mg/L	0.00011	294.54%
Pb 220.353	-0.0	0.0000	mg/L	0.00046	0.0000	mg/L	0.00046	>999.9%
Sb 206.836	22.2	0.0041	mg/L	0.00182	0.0041	mg/L	0.00182	44.85%
Se 196.026	-6.7	-0.0018	mg/L	0.00037	-0.0018	mg/L	0.00037	20.31%
Tl 190.801	4.5	0.0010	mg/L	0.00032	0.0010	mg/L	0.00032	31.30%
V 292.402	183.9	0.0004	mg/L	0.00044	0.0004	mg/L	0.00044	122.49%
Zn 206.200	107.1	0.0006	mg/L	0.00054	0.0006	mg/L	0.00054	88.45%
Na 330.237	-20.3	-0.0067	mg/L	0.03583	-0.0067	mg/L	0.03583	532.08%
Cd 226.502	-13.3	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	171.81%
Ti 334.940	275.9	0.0002	mg/L	0.00030	0.0002	mg/L	0.00030	186.28%
Ca 227.546	-13.4	-0.0128	mg/L	0.02762	-0.0128	mg/L	0.02762	215.71%

Sequence No.: 31 **Autosampler Location:** 28
Sample ID: A1627-07B,4310 **Date Collected:** 11/14/2002 12:24:27 PM
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type:** Original

Mean Data: A1627-07B,4310

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	173.3	0.0004	mg/L	0.00006	0.0004	mg/L	0.00006	15.84%
Al 308.215	292.6	0.0042	mg/L	0.00054	0.0042	mg/L	0.00054	12.64%

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
As 188.979	-2.2	-0.0007	mg/L	0.00072	-0.0007	mg/L	0.00072	107.87%
Ba 233.527	1143.0	0.0081	mg/L	0.00007	0.0081	mg/L	0.00007	0.89%
Be 313.107	1090.9	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	5.85%
Co 228.616	1.8	0.0000	mg/L	0.00006	0.0000	mg/L	0.00006	220.29%
Cr 267.716	87.3	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	2.33%
Cu 324.752	1779.5	0.0027	mg/L	0.00063	0.0027	mg/L	0.00063	23.65%
Fe 273.955	1619.9	0.0233	mg/L	0.00033	0.0233	mg/L	0.00033	1.40%
Mg 279.077	-646.0	-0.0135	mg/L	0.00052	-0.0135	mg/L	0.00052	3.88%
Mn 257.610	838.5	0.0013	mg/L	0.00001	0.0013	mg/L	0.00001	0.55%
Ni 231.604	4.7	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	72.31%
Pb 220.353	3.4	0.0001	mg/L	0.00038	0.0001	mg/L	0.00038	352.80%
Sb 206.836	8.3	0.0015	mg/L	0.00051	0.0015	mg/L	0.00051	33.36%
Se 196.026	-2.0	-0.0005	mg/L	0.00027	-0.0005	mg/L	0.00027	49.04%
Tl 190.801	4.5	0.0010	mg/L	0.00048	0.0010	mg/L	0.00048	46.83%
V 292.402	-18.4	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	81.96%
Zn 206.200	212.9	0.0012	mg/L	0.00040	0.0012	mg/L	0.00040	32.76%
Na 330.237	368.0	0.1228	mg/L	0.03949	0.1228	mg/L	0.03949	32.16%
Cd 226.502	-36.5	-0.0001	mg/L	0.00000	-0.0001	mg/L	0.00000	0.14%
Ti 334.940	360.1	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	3.44%
Ca 227.546	-10.4	-0.0102	mg/L	0.00675	-0.0102	mg/L	0.00675	66.05%

Sequence No.: 32 **Autosampler Location:** 29
Sample ID: A1627-13B,4310 **Date Collected:** 11/14/2002 12:28:27 PM
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type:** Original

Mean Data: A1627-13B,4310

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	128.1	0.0003	mg/L	0.00003	0.0003	mg/L	0.00003	9.55%
Al 308.215	224.4	0.0033	mg/L	0.00003	0.0033	mg/L	0.00003	0.84%
As 188.979	-0.5	-0.0002	mg/L	0.00016	-0.0002	mg/L	0.00016	108.36%
Ba 233.527	1034.5	0.0073	mg/L	0.00002	0.0073	mg/L	0.00002	0.23%
Be 313.107	1008.6	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	9.01%
Co 228.616	4.7	0.0000	mg/L	0.00008	0.0001	mg/L	0.00008	115.46%
Cr 267.716	36.0	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	2.33%
Cu 324.752	1010.3	0.0015	mg/L	0.00033	0.0015	mg/L	0.00033	21.43%
Fe 273.955	1231.2	0.0177	mg/L	0.00027	0.0177	mg/L	0.00027	1.51%
Mg 279.077	-926.8	-0.0148	mg/L	0.00009	-0.0148	mg/L	0.00009	0.58%
Mn 257.610	861.4	0.0014	mg/L	0.00003	0.0014	mg/L	0.00003	1.97%
Ni 231.604	-18.3	-0.0002	mg/L	0.00003	-0.0002	mg/L	0.00003	18.37%
Pb 220.353	0.4	0.0000	mg/L	0.00010	0.0000	mg/L	0.00010	778.70%
Sb 206.836	8.9	0.0016	mg/L	0.00106	0.0016	mg/L	0.00106	64.90%
Se 196.026	0.4	0.0001	mg/L	0.00101	0.0001	mg/L	0.00101	982.76%
Tl 190.801	1.0	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	0.01%
V 292.402	12.0	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	119.20%
Zn 206.200	0.8	0.0000	mg/L	0.00018	0.0000	mg/L	0.00018	>999.9%
Na 330.237	238.4	0.0795	mg/L	0.04881	0.0795	mg/L	0.04881	61.37%
Cd 226.502	-38.2	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	26.16%
Ti 334.940	261.7	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	4.82%
Ca 227.546	18.4	0.0174	mg/L	0.02475	0.0174	mg/L	0.02475	142.31%

Sequence No.: 33 **Autosampler Location:** 30
Sample ID: A1627-25B,4310 **Date Collected:** 11/14/2002 12:32:28 PM
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type:** Original

Mean Data: A1627-25B,4310

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	45.1	0.0001	mg/L	0.00018	0.0001	mg/L	0.00018	179.94%
Al 308.215	169.1	0.0025	mg/L	0.00000	0.0025	mg/L	0.00000	0.01%
As 188.979	-0.3	-0.0001	mg/L	0.00084	-0.0001	mg/L	0.00084	918.27%
Ba 233.527	906.6	0.0064	mg/L	0.00006	0.0064	mg/L	0.00006	0.91%
Be 313.107	757.2	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	8.16%

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Co 228.616	3.7	0.0001	mg/L	0.00009	0.0001	mg/L	0.00009	176.21%
Cr 267.716	29.1	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	78.91%
Cu 324.752	587.4	0.0009	mg/L	0.00000	0.0009	mg/L	0.00000	0.16%
Fe 273.955	781.7	0.0112	mg/L	0.00010	0.0112	mg/L	0.00010	0.88%
Mg 279.077	-943.5	-0.0150	mg/L	0.00053	-0.0150	mg/L	0.00053	3.55%
Mn 257.610	849.8	0.0014	mg/L	0.00001	0.0014	mg/L	0.00001	0.84%
Ni 231.604	-53.3	-0.0005	mg/L	0.00001	-0.0005	mg/L	0.00001	2.14%
Pb 220.353	0.4	0.0000	mg/L	0.00023	0.0000	mg/L	0.00023	>999.9%
Sb 206.836	5.9	0.0011	mg/L	0.00163	0.0011	mg/L	0.00163	151.70%
Se 196.026	-2.0	-0.0005	mg/L	0.00114	-0.0005	mg/L	0.00114	209.39%
Tl 190.801	1.5	0.0003	mg/L	0.00048	0.0003	mg/L	0.00048	138.74%
V 292.402	-27.7	-0.0001	mg/L	0.00005	-0.0001	mg/L	0.00005	95.84%
Zn 206.200	56.1	0.0003	mg/L	0.00007	0.0003	mg/L	0.00007	21.79%
Na 330.237	-27.8	-0.0092	mg/L	0.03715	-0.0092	mg/L	0.03715	402.14%
Cd 226.502	-39.8	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	19.65%
Ti 334.940	323.8	0.0002	mg/L	0.00004	0.0002	mg/L	0.00004	23.49%
Ca 227.546	19.2	0.0183	mg/L	0.01305	0.0183	mg/L	0.01305	71.46%

Sequence No.: 34 **Autosampler Location:** 31
Sample ID: A1627-51B,4310 **Date Collected:** 11/14/2002 12:36:29 PM
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type:** Original

Mean Data: A1627-51B,4310

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	227.8	0.0005	mg/L	0.00005	0.0005	mg/L	0.00005	10.02%
Al 308.215	203.5	0.0030	mg/L	0.00062	0.0030	mg/L	0.00062	21.01%
As 188.979	2.0	0.0006	mg/L	0.00016	0.0006	mg/L	0.00016	26.23%
Ba 233.527	745.8	0.0053	mg/L	0.00001	0.0053	mg/L	0.00001	0.13%
Be 313.107	658.6	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	5.35%
Co 228.616	6.8	0.0001	mg/L	0.00006	0.0001	mg/L	0.00006	63.93%
Cr 267.716	27.4	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	23.27%
Cu 324.752	355.6	0.0005	mg/L	0.00025	0.0005	mg/L	0.00025	46.99%
Fe 273.955	940.7	0.0135	mg/L	0.00074	0.0135	mg/L	0.00074	5.48%
Mg 279.077	-820.4	-0.0131	mg/L	0.00186	-0.0131	mg/L	0.00186	14.21%
Mn 257.610	793.4	0.0013	mg/L	0.00002	0.0013	mg/L	0.00002	1.81%
Ni 231.604	0.6	0.0000	mg/L	0.00009	0.0000	mg/L	0.00009	>999.9%
Pb 220.353	-0.7	0.0000	mg/L	0.00006	0.0000	mg/L	0.00006	260.33%
Sb 206.836	6.7	0.0012	mg/L	0.00058	0.0012	mg/L	0.00058	47.33%
Se 196.026	-3.0	-0.0008	mg/L	0.00080	-0.0008	mg/L	0.00080	96.79%
Tl 190.801	2.0	0.0005	mg/L	0.00032	0.0005	mg/L	0.00032	69.87%
V 292.402	39.1	0.0001	mg/L	0.00006	0.0001	mg/L	0.00006	73.59%
Zn 206.200	-33.9	-0.0002	mg/L	0.00006	-0.0002	mg/L	0.00006	29.05%
Na 330.237	132.1	0.0441	mg/L	0.06158	0.0441	mg/L	0.06158	139.66%
Cd 226.502	-43.9	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	8.78%
Ti 334.940	356.0	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	22.20%
Ca 227.546	21.6	0.0205	mg/L	0.00033	0.0205	mg/L	0.00033	1.60%

Sequence No.: 35 **Autosampler Location:** 32
Sample ID: MB-4312,4312 **Date Collected:** 11/14/2002 12:40:31 PM
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type:** Original

Mean Data: MB-4312,4312

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	141.5	0.0003	mg/L	0.00019	0.0003	mg/L	0.00019	60.11%
Al 308.215	-22.6	-0.0003	mg/L	0.00122	-0.0003	mg/L	0.00122	371.11%
As 188.979	-2.4	-0.0007	mg/L	0.00030	-0.0007	mg/L	0.00030	42.94%
Ba 233.527	926.6	0.0066	mg/L	0.00012	0.0066	mg/L	0.00012	1.84%
Be 313.107	720.8	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	8.03%
Co 228.616	0.3	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	269.94%
Cr 267.716	259.9	0.0005	mg/L	0.00001	0.0005	mg/L	0.00001	0.98%
Cu 324.752	450.1	0.0007	mg/L	0.00026	0.0007	mg/L	0.00026	39.17%

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Fe 273.955	1324.6	0.0190	mg/L	0.00112	0.0190	mg/L	0.00112	5.90%
Mg 279.077	-989.6	-0.0158	mg/L	0.00029	-0.0158	mg/L	0.00029	1.82%
Mn 257.610	1605.0	0.0026	mg/L	0.00006	0.0026	mg/L	0.00006	2.20%
Ni 231.604	-38.4	-0.0004	mg/L	0.00002	-0.0004	mg/L	0.00002	5.85%
Pb 220.353	5.6	0.0002	mg/L	0.00009	0.0002	mg/L	0.00009	49.95%
Sb 206.836	13.2	0.0024	mg/L	0.00139	0.0024	mg/L	0.00139	57.41%
Se 196.026	2.0	0.0006	mg/L	0.00022	0.0006	mg/L	0.00022	40.01%
Tl 190.801	2.3	0.0005	mg/L	0.00056	0.0005	mg/L	0.00056	107.97%
V 292.402	36.3	0.0001	mg/L	0.00008	0.0001	mg/L	0.00008	115.86%
Zn 206.200	-103.5	-0.0006	mg/L	0.00010	-0.0006	mg/L	0.00010	17.16%
Na 330.237	420.0	0.1401	mg/L	0.07237	0.1401	mg/L	0.07237	51.66%
Cd 226.502	-54.2	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	7.31%
Ti 334.940	354.1	0.0002	mg/L	0.00002	0.0002	mg/L	0.00002	8.56%
Ca 227.546	14.9	0.0141	mg/L	0.00745	0.0141	mg/L	0.00745	52.94%

Sequence No.: 36 **Autosampler Location:** 33
Sample ID: LCS-4312,4312 **Date Collected:** 11/14/2002 12:44:34 PM
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type:** Original

Mean Data: LCS-4312,4312

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	485528.5	1.0557	mg/L	0.00257	1.0557	mg/L	0.00257	0.24%
Al 308.215	589208.9	8.5479	mg/L	0.01866	8.5479	mg/L	0.01866	0.22%
As 188.979	1635.9	0.5037	mg/L	0.00486	0.5037	mg/L	0.00486	0.97%
Ba 233.527	1288159.7	9.1134	mg/L	0.04926	9.1134	mg/L	0.04926	0.54%
Be 313.107	2577920.9	0.2204	mg/L	0.00248	0.2204	mg/L	0.00248	1.12%
Co 228.616	153500.7	2.2130	mg/L	0.00891	2.2130	mg/L	0.00891	0.40%
Cr 267.716	435216.0	0.8851	mg/L	0.00535	0.8851	mg/L	0.00535	0.60%
Cu 324.752	730456.1	1.0935	mg/L	0.00459	1.0935	mg/L	0.00459	0.41%
Fe 273.955	312945.1	4.4994	mg/L	0.03218	4.4994	mg/L	0.03218	0.72%
Mg 279.077	1373453.8	21.920	mg/L	0.1634	21.920	mg/L	0.1634	0.75%
Mn 257.610	1389834.0	2.2336	mg/L	0.01151	2.2336	mg/L	0.01151	0.52%
Ni 231.604	224693.4	2.1708	mg/L	0.00698	2.1708	mg/L	0.00698	0.32%
Pb 220.353	16332.5	0.5097	mg/L	0.00335	0.5097	mg/L	0.00335	0.66%
Sb 206.836	2943.3	0.5424	mg/L	0.00584	0.5424	mg/L	0.00584	1.08%
Se 196.026	1635.9	0.4493	mg/L	0.00289	0.4493	mg/L	0.00289	0.64%
Tl 190.801	2200.5	0.4980	mg/L	0.00351	0.4980	mg/L	0.00351	0.70%
V 292.402	1124467.4	2.2079	mg/L	0.01080	2.2079	mg/L	0.01080	0.49%
Zn 206.200	384251.7	2.2043	mg/L	0.01582	2.2043	mg/L	0.01582	0.72%
Na 330.237	60774.4	20.225	mg/L	0.0764	20.225	mg/L	0.0764	0.38%
Cd 226.502	132073.9	0.2456	mg/L	0.00142	0.2456	mg/L	0.00142	0.58%
Ti 334.940	1929.2	0.0011	mg/L	0.00005	0.0011	mg/L	0.00005	4.23%
Ca 227.546	21698.3	20.777	mg/L	0.2094	20.777	mg/L	0.2094	1.01%

Sequence No.: 37 **Autosampler Location:** 34
Sample ID: A1627-02C,4312 **Date Collected:** 11/14/2002 12:48:46 PM
Analyst:
Sample Wt: 1.07g **Sample Prep Volume:**
Dilution: **Data Type:** Original

Mean Data: A1627-02C,4312

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-26318.5	-0.0039	mg/L	0.00072	-0.0039	mg/L	0.00072	18.59%
Al 308.215	1540209.8	223.44	mg/L	1.529	223.44	mg/L	1.529	0.68%
As 188.979	157.0	0.0893	mg/L	0.00787	0.0893	mg/L	0.00787	8.80%
Ba 233.527	163775.9	1.1454	mg/L	0.00656	1.1454	mg/L	0.00656	0.57%
Be 313.107	-44327.1	-0.0038	mg/L	0.00003	-0.0038	mg/L	0.00003	0.75%
Co 228.616	11563.5	0.1635	mg/L	0.00195	0.1635	mg/L	0.00195	1.19%
Cr 267.716	203733.8	0.4172	mg/L	0.00208	0.4172	mg/L	0.00208	0.50%
Cu 324.752	249307.0	0.4087	mg/L	0.00109	0.4087	mg/L	0.00109	0.27%
Fe 273.955	20418793.2	293.57	mg/L	0.972	293.57	mg/L	0.972	0.33%
Mg 279.077	11785219.0	188.01	mg/L	0.701	188.01	mg/L	0.701	0.37%
Mn 257.610	2897868.4	4.6609	mg/L	0.02847	4.6609	mg/L	0.02847	0.61%

Ni 231.604	23417.4	0.2258 mg/L	0.00126	0.2258 mg/L	0.00126	0.56%
Pb 220.353	5779.0	0.2049 mg/L	0.00087	0.2049 mg/L	0.00087	0.42%
Sb 206.836	-34.7	0.0086 mg/L	0.00165	0.0086 mg/L	0.00165	19.19%
Se 196.026	-359.7	-0.0132 mg/L	0.01215	-0.0132 mg/L	0.01215	91.78%
Tl 190.801	-89.4	0.0030 mg/L	0.00425	0.0030 mg/L	0.00425	142.77%
V 292.402	308025.2	0.6030 mg/L	0.00323	0.6030 mg/L	0.00323	0.54%
Zn 206.200	147840.1	0.8347 mg/L	0.00389	0.8347 mg/L	0.00389	0.47%
Na 330.237	14229.2	5.0108 mg/L	0.04445	5.0108 mg/L	0.04445	0.89%
Cd 226.502	9700.2	0.0066 mg/L	0.00004	0.0066 mg/L	0.00004	0.58%
Ti 334.940	Saturated2					
Saturated in preshot (code 2)						
Ca 227.546	209477.0	197.77 mg/L	1.200	197.77 mg/L	1.200	0.61%

Sequence No.: 38
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/14/2002 12:51:30 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	568665.0	1.2364 mg/L	0.00100	1.2364 mg/L	0.00100	0.08%
Al 308.215	692314.6	10.044 mg/L	0.0400	10.044 mg/L	0.0400	0.40%
As 188.979	1690.0	0.5214 mg/L	0.00041	0.5214 mg/L	0.00041	0.08%
Ba 233.527	1514019.4	19.711 mg/L	0.0335	19.711 mg/L	0.0335	0.31%
Be 313.107	2984588.9	0.2552 mg/L	0.00027	0.2552 mg/L	0.00027	0.11%
Co 228.616	179034.2	2.5811 mg/L	0.00109	2.5811 mg/L	0.00109	0.04%
Cr 267.716	499541.7	1.0159 mg/L	0.00342	1.0159 mg/L	0.00342	0.34%
Cu 324.752	852371.5	1.2761 mg/L	0.00447	1.2761 mg/L	0.00447	0.35%
Fe 273.955	358173.5	5.1497 mg/L	0.00897	5.1497 mg/L	0.00897	0.17%
Mg 279.077	1611309.3	25.716 mg/L	0.0794	25.716 mg/L	0.0794	0.31%
Mn 257.610	1594454.2	2.5624 mg/L	0.00315	2.5624 mg/L	0.00315	0.12%
Ni 231.604	263091.0	2.5418 mg/L	0.00412	2.5418 mg/L	0.00412	0.16%
Pb 220.353	16448.6	0.5136 mg/L	0.00069	0.5136 mg/L	0.00069	0.13%
Sb 206.836	2829.2	0.5220 mg/L	0.00468	0.5220 mg/L	0.00468	0.90%
Se 196.026	1812.0	0.4977 mg/L	0.00050	0.4977 mg/L	0.00050	0.10%
Tl 190.801	2263.5	0.5127 mg/L	0.00014	0.5127 mg/L	0.00014	0.03%
V 292.402	1294688.5	2.5421 mg/L	0.01242	2.5421 mg/L	0.01242	0.49%
Zn 206.200	450743.6	2.5858 mg/L	0.00497	2.5858 mg/L	0.00497	0.19%
Na 330.237	73700.3	24.529 mg/L	0.0087	24.529 mg/L	0.0087	0.04%
Cd 226.502	136708.5	0.2543 mg/L	0.00043	0.2543 mg/L	0.00043	0.17%
Ti 334.940	3014.5	0.0018 mg/L	0.00023	0.0018 mg/L	0.00023	12.96%
Ca 227.546	25969.7	24.645 mg/L	0.0580	24.645 mg/L	0.0580	0.24%

Sequence No.: 39
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 11/14/2002 12:55:41 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	-6.3	0.0000 mg/L	0.00012	0.0000 mg/L	0.00012	767.63%
Al 308.215	934.3	0.0136 mg/L	0.01032	0.0136 mg/L	0.01032	76.12%
As 188.979	-0.0	0.0000 mg/L	0.00033	0.0000 mg/L	0.00033	>999.9%
Ba 233.527	48.8	0.0003 mg/L	0.00011	0.0003 mg/L	0.00011	31.49%
Be 313.107	1326.6	0.0001 mg/L	0.00007	0.0001 mg/L	0.00007	59.14%
Co 228.616	-7.0	-0.0001 mg/L	0.00008	-0.0001 mg/L	0.00008	79.47%
Cr 267.716	-36.7	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	18.60%
Cu 324.752	947.5	0.0014 mg/L	0.00024	0.0014 mg/L	0.00024	17.14%
Fe 273.955	-799.5	-0.0115 mg/L	0.00028	-0.0115 mg/L	0.00028	2.47%
Mg 279.077	-868.8	-0.0139 mg/L	0.00069	-0.0139 mg/L	0.00069	5.00%
Mn 257.610	-192.7	-0.0003 mg/L	0.00000	-0.0003 mg/L	0.00000	0.21%
Ni 231.604	-13.4	-0.0001 mg/L	0.00006	-0.0001 mg/L	0.00006	42.93%
Pb 220.353	4.4	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	23.42%

Sb 206.836	18.8	0.0034 mg/L	0.00135	0.0034 mg/L	0.00135	39.20%
Se 196.026	-0.1	0.0000 mg/L	0.00040	0.0000 mg/L	0.00040	957.89%
Tl 190.801	6.0	0.0014 mg/L	0.00000	0.0014 mg/L	0.00000	0.06%
V 292.402	65.9	0.0001 mg/L	0.00031	0.0001 mg/L	0.00031	240.09%
Zn 206.200	50.1	0.0003 mg/L	0.00032	0.0003 mg/L	0.00032	111.22%
Na 330.237	22.5	0.0075 mg/L	0.04809	0.0075 mg/L	0.04809	638.75%
Cd 226.502	-29.8	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	18.98%
Ti 334.940	147.4	0.0001 mg/L	0.00008	0.0001 mg/L	0.00008	96.41%
Ca 227.546	-31.1	-0.0296 mg/L	0.01349	-0.0296 mg/L	0.01349	45.57%

Sequence No.: 40
Sample ID: A1627-03C,4312
Analyst:
Sample Wt: 1.129
Dilution:

Autosampler Location: 35
Date Collected: 11/14/2002 12:59:44 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1627-03C,4312

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	-21482.7	0.0003 mg/L	0.00017	0.0003 mg/L	0.00017	64.60%
Al 308.215	10458596.8	151.73 mg/L	0.433	151.73 mg/L	0.433	0.29%
As 188.979	-96.6	0.0369 mg/L	0.00264	0.0369 mg/L	0.00264	7.16%
Ba 233.527	89580.7	0.6236 mg/L	0.00703	0.6236 mg/L	0.00703	1.13%
Be 313.107	-228982.5	0.0050 mg/L	0.00002	0.0050 mg/L	0.00002	0.44%
Co 228.616	5674.4	0.0700 mg/L	0.00094	0.0700 mg/L	0.00094	1.34%
Cr 267.716	1597056.4	3.2504 mg/L	0.03095	3.2504 mg/L	0.03095	0.95%
Cu 324.752	98887.7	0.1742 mg/L	0.00172	0.1742 mg/L	0.00172	0.99%
Fe 273.955	17078083.2	245.54 mg/L	0.577	245.54 mg/L	0.577	0.23%
Mg 279.077	3135422.7	50.025 mg/L	0.4181	50.025 mg/L	0.4181	0.84%
Mn 257.610	1351082.9	2.1763 mg/L	0.01985	2.1763 mg/L	0.01985	0.91%
Ni 231.604	20331.0	0.1943 mg/L	0.00076	0.1943 mg/L	0.00076	0.39%
Pb 220.353	2352.3	0.0954 mg/L	0.00051	0.0954 mg/L	0.00051	0.53%
Sb 206.836	-86.8	-0.0007 mg/L	0.00209	-0.0007 mg/L	0.00209	300.63%
Se 196.026	-284.3	-0.0065 mg/L	0.00173	-0.0065 mg/L	0.00173	26.67%
Tl 190.801	-37.1	0.0133 mg/L	0.00554	0.0133 mg/L	0.00554	41.77%
V 292.402	353453.1	0.6944 mg/L	0.00567	0.6944 mg/L	0.00567	0.82%
Zn 206.200	60830.1	0.3431 mg/L	0.00235	0.3431 mg/L	0.00235	0.68%
Na 330.237	32080.8	12.766 mg/L	0.1095	12.766 mg/L	0.1095	0.86%
Cd 226.502	7125.6	0.0037 mg/L	0.00014	0.0037 mg/L	0.00014	3.90%
Ti 334.940	113466268.4	6.7016 mg/L	0.02599	6.7016 mg/L	0.02599	0.39%
Ca 227.546	62232.2	57.385 mg/L	0.3630	57.385 mg/L	0.3630	0.63%

Sequence No.: 41
Sample ID: A1627-29C,4312
Analyst:
Sample Wt: 1.024
Dilution:

Autosampler Location: 36
Date Collected: 11/14/2002 1:02:26 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1627-29C,4312

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	-33891.8	-0.0049 mg/L	0.00031	-0.0049 mg/L	0.00031	6.26%
Al 308.215	24089145.2	349.47 mg/L	0.262	349.47 mg/L	0.262	0.07%
As 188.979	99.9	0.0811 mg/L	0.00710	0.0811 mg/L	0.00710	8.75%
Ba 233.527	479125.4	3.3731 mg/L	0.00358	3.3731 mg/L	0.00358	0.11%
Be 313.107	-5744.8	-0.0005 mg/L	0.00002	-0.0005 mg/L	0.00002	4.73%
Co 228.616	12060.2	0.1702 mg/L	0.00181	0.1702 mg/L	0.00181	1.06%
Cr 267.716	284462.0	0.5813 mg/L	0.00016	0.5813 mg/L	0.00016	0.03%
Cu 324.752	123782.2	0.2236 mg/L	0.00106	0.2236 mg/L	0.00106	0.47%
Fe 273.955	24670643.3	354.71 mg/L	1.300	354.71 mg/L	1.300	0.08%
Mg 279.077	7967247.9	127.14 mg/L	0.122	127.14 mg/L	0.122	0.10%
Mn 257.610	5704694.6	9.1753 mg/L	0.00585	9.1753 mg/L	0.00585	0.06%
Ni 231.604	25500.7	0.2456 mg/L	0.00133	0.2456 mg/L	0.00133	0.54%
Pb 220.353	4400.4	0.1733 mg/L	0.00236	0.1733 mg/L	0.00236	1.36%
Sb 206.836	-14.2	0.0150 mg/L	0.00356	0.0150 mg/L	0.00356	23.78%
Se 196.026	-376.5	-0.0032 mg/L	0.00048	-0.0032 mg/L	0.00048	14.81%
Tl 190.801	-207.0	-0.0057 mg/L	0.00258	-0.0057 mg/L	0.00258	45.15%

V 292.402	411118.7	0.8054 mg/L	0.00028	0.8054 mg/L	0.00028	0.03%
Zn 206.200	141096.7	0.8000 mg/L	0.00041	0.8000 mg/L	0.00041	0.05%
Na 330.237	4245.5	1.9317 mg/L	0.00013	1.9317 mg/L	0.00013	0.01%
Cd 226.502	11449.8	0.0075 mg/L	0.00027	0.0075 mg/L	0.00027	3.66%
Ti 334.940	Saturated2					
Saturated in preshot (code 2)						
Ca 227.546	45298.9	40.353 mg/L	0.5818	40.353 mg/L	0.5818	1.44%

Sequence No.: 42
Sample ID: A1627-30C,4312
Analyst:
Sample Wt: 1.149
Dilution:

Autosampler Location: 37
Date Collected: 11/14/2002 1:05:13 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1627-30C,4312

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	-32345.9	-0.0032 mg/L	0.00065	-0.0032 mg/L	0.00065	20.28%
Al 308.215	31693477.5	314.72 mg/L	3.011	314.72 mg/L	3.011	0.96%
As 188.979	67.5	0.0752 mg/L	0.01235	0.0752 mg/L	0.01235	16.43%
Ba 233.527	369414.4	2.5977 mg/L	0.00420	2.5977 mg/L	0.00420	0.16%
Be 313.107	-23478.6	0.0124 mg/L	0.00006	0.0124 mg/L	0.00006	0.47%
Co 228.616	11376.7	0.1409 mg/L	0.00267	0.1409 mg/L	0.00267	1.89%
Cr 267.716	243827.0	0.4986 mg/L	0.00100	0.4986 mg/L	0.00100	0.20%
Cu 324.752	123380.3	0.2100 mg/L	0.00024	0.2100 mg/L	0.00024	0.11%
Fe 273.955	23922035.9	343.94 mg/L	2.054	343.94 mg/L	2.054	0.60%
Mg 279.077	6401256.2	102.16 mg/L	0.128	102.16 mg/L	0.128	0.13%
Mn 257.610	5672208.5	9.1230 mg/L	0.05515	9.1230 mg/L	0.05515	0.60%
Ni 231.604	25298.6	0.2396 mg/L	0.00418	0.2396 mg/L	0.00418	1.74%
Pb 220.353	4331.2	0.1761 mg/L	0.00263	0.1761 mg/L	0.00263	1.49%
Sb 206.836	2.9	0.0278 mg/L	0.00251	0.0278 mg/L	0.00251	9.02%
Se 196.026	-388.1	-0.0120 mg/L	0.00832	-0.0120 mg/L	0.00832	69.36%
Tl 190.801	-218.0	0.0146 mg/L	0.00520	0.0146 mg/L	0.00520	35.73%
V 292.402	358573.3	0.6942 mg/L	0.00015	0.6942 mg/L	0.00015	0.02%
Zn 206.200	108415.0	0.6004 mg/L	0.00095	0.6004 mg/L	0.00095	0.16%
Na 330.237	6175.7	6.2139 mg/L	0.18665	6.2139 mg/L	0.18665	3.00%
Cd 226.502	10903.8	0.0069 mg/L	0.00006	0.0069 mg/L	0.00006	0.80%
Ti 334.940	23765204.1	14.012 mg/L	0.0053	14.012 mg/L	0.0053	0.04%
Ca 227.546	21185.3	17.383 mg/L	0.2960	17.383 mg/L	0.2960	1.70%

Sequence No.: 43
Sample ID: A1627-31C,4312
Analyst:
Sample Wt: 1.069
Dilution:

Autosampler Location: 38
Date Collected: 11/14/2002 1:08:09 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1627-31C,4312

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	-27171.6	-0.0033 mg/L	0.00015	-0.0033 mg/L	0.00015	4.58%
Al 308.215	17895582.3	259.62 mg/L	0.290	259.62 mg/L	0.290	0.11%
As 188.979	107.1	0.0815 mg/L	0.00005	0.0815 mg/L	0.00005	0.07%
Ba 233.527	424732.2	2.9913 mg/L	0.00607	2.9913 mg/L	0.00607	0.20%
Be 313.107	-37326.8	0.0118 mg/L	0.00004	0.0118 mg/L	0.00004	0.36%
Co 228.616	10364.7	0.1261 mg/L	0.00126	0.1261 mg/L	0.00126	1.00%
Cr 267.716	293409.0	0.5992 mg/L	0.00010	0.5992 mg/L	0.00010	0.02%
Cu 324.752	228890.5	0.3635 mg/L	0.00106	0.3635 mg/L	0.00106	0.29%
Fe 273.955	20141606.4	289.59 mg/L	0.542	289.59 mg/L	0.542	0.19%
Mg 279.077	7460838.0	119.04 mg/L	0.115	119.04 mg/L	0.115	0.10%
Mn 257.610	3987163.3	6.4132 mg/L	0.00034	6.4132 mg/L	0.00034	0.01%
Ni 231.604	25140.3	0.2381 mg/L	0.00269	0.2381 mg/L	0.00269	1.13%
Pb 220.353	6334.5	0.2333 mg/L	0.00145	0.2333 mg/L	0.00145	0.62%
Sb 206.836	-14.6	0.0226 mg/L	0.01156	0.0226 mg/L	0.01156	51.23%
Se 196.026	-324.4	-0.0087 mg/L	0.00517	-0.0087 mg/L	0.00517	59.15%
Tl 190.801	-125.5	0.0243 mg/L	0.00345	0.0243 mg/L	0.00345	14.22%
V 292.402	360459.2	0.6975 mg/L	0.00125	0.6975 mg/L	0.00125	0.18%
Zn 206.200	137050.1	0.7644 mg/L	0.00018	0.7644 mg/L	0.00018	0.02%

Na 330.237	-2328.2	3.4103 mg/L	0.09902	3.4103 mg/L	0.09902	2.90%
Cd 226.502	9571.9	0.0065 mg/L	0.00017	0.0065 mg/L	0.00017	2.67%
Ti 334.940	24718438.6	14.575 mg/L	0.0288	14.575 mg/L	0.0288	0.20%
Ca 227.546	53625.9	48.836 mg/L	0.4344	48.836 mg/L	0.4344	0.89%

Sequence No.: 44
Sample ID: A1627-46A,4312
Analyst:
Sample Wt: 1.179
Dilution:

Autosampler Location: 39
Date Collected: 11/14/2002 1:10:56 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1627-46A,4312

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	-24966.1	-0.0064 mg/L	0.00022	-0.0064 mg/L	0.00022	3.37%
Al 308.215	147375792.1	213.80 mg/L	0.619	213.80 mg/L	0.619	0.29%
As 188.979	65.5	0.0657 mg/L	0.00582	0.0657 mg/L	0.00582	8.85%
Ba 233.527	261935.8	1.8402 mg/L	0.00398	1.8402 mg/L	0.00398	0.22%
Be 313.107	-83489.7	0.0072 mg/L	0.00003	0.0072 mg/L	0.00003	0.42%
Co 228.616	11922.0	0.1495 mg/L	0.00067	0.1495 mg/L	0.00067	0.45%
Cr 267.716	215795.4	0.4415 mg/L	0.00150	0.4415 mg/L	0.00150	0.34%
Cu 324.752	261359.7	0.4123 mg/L	0.00226	0.4123 mg/L	0.00226	0.55%
Fe 273.955	193000066.0	277.49 mg/L	0.373	277.49 mg/L	0.373	0.13%
Mg 279.077	7653473.2	122.11 mg/L	0.344	122.11 mg/L	0.344	0.28%
Mn 257.610	3983579.9	4.9602 mg/L	0.01532	4.9602 mg/L	0.01532	0.31%
Ni 231.604	25151.6	0.2386 mg/L	0.00202	0.2386 mg/L	0.00202	0.85%
Pb 220.353	4685.3	0.1781 mg/L	0.00159	0.1781 mg/L	0.00159	0.89%
Sb 206.836	-9.7	0.0234 mg/L	0.00307	0.0234 mg/L	0.00307	13.11%
Se 196.026	-349.1	-0.0180 mg/L	0.00434	-0.0180 mg/L	0.00434	24.16%
Tl 190.801	-94.4	0.0237 mg/L	0.01139	0.0237 mg/L	0.01139	47.84%
V 292.402	369989.5	0.7169 mg/L	0.00297	0.7169 mg/L	0.00297	0.41%
Zn 206.200	123479.5	0.6861 mg/L	0.00196	0.6861 mg/L	0.00196	0.29%
Na 330.237	6655.0	5.9360 mg/L	0.01072	5.9360 mg/L	0.01072	0.18%
Cd 226.502	9201.3	0.0063 mg/L	0.00002	0.0063 mg/L	0.00002	0.31%
Ti 334.940	23347677.4	13.886 mg/L	0.0522	13.886 mg/L	0.0522	0.38%
Ca 227.546	324383.2	307.74 mg/L	1.096	307.74 mg/L	1.096	0.36%

Sequence No.: 45
Sample ID: A1627-47A,4312
Analyst:
Sample Wt: 1.139
Dilution:

Autosampler Location: 40
Date Collected: 11/14/2002 1:13:45 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1627-47A,4312

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Ag 328.068	-18049.5	-0.0090 mg/L	0.00061	-0.0090 mg/L	0.00061	6.77%
Al 308.215	9496487.5	137.77 mg/L	1.556	137.77 mg/L	1.556	1.13%
As 188.979	53.3	0.0516 mg/L	0.00520	0.0516 mg/L	0.00520	10.08%
Ba 233.527	127003.2	0.8871 mg/L	0.00538	0.8871 mg/L	0.00538	0.61%
Be 313.107	-62613.1	0.0039 mg/L	0.00015	0.0039 mg/L	0.00015	3.96%
Co 228.616	8118.2	0.1019 mg/L	0.00059	0.1019 mg/L	0.00059	0.58%
Cr 267.716	104855.3	0.2156 mg/L	0.00217	0.2156 mg/L	0.00217	1.01%
Cu 324.752	421542.2	0.6509 mg/L	0.00638	0.6509 mg/L	0.00638	0.98%
Fe 273.955	15927770.2	229.00 mg/L	1.734	229.00 mg/L	1.734	0.76%
Mg 279.077	8610700.7	137.37 mg/L	0.849	137.37 mg/L	0.849	0.62%
Mn 257.610	2150405.0	3.4587 mg/L	0.03068	3.4587 mg/L	0.03068	0.89%
Ni 231.604	26140.1	0.1917 mg/L	0.00074	0.1917 mg/L	0.00074	0.38%
Pb 220.353	14220.7	0.4653 mg/L	0.00455	0.4653 mg/L	0.00455	0.98%
Sb 206.836	-10.7	0.0184 mg/L	0.00857	0.0184 mg/L	0.00857	46.60%
Se 196.026	-280.5	-0.0117 mg/L	0.00461	-0.0117 mg/L	0.00461	39.26%
Tl 190.801	-53.2	0.0180 mg/L	0.00154	0.0180 mg/L	0.00154	8.57%
V 292.402	332645.7	0.6462 mg/L	0.00615	0.6462 mg/L	0.00615	0.95%
Zn 206.200	136023.0	0.7609 mg/L	0.00577	0.7609 mg/L	0.00577	0.76%
Na 330.237	23754.1	9.9784 mg/L	0.06000	9.9784 mg/L	0.06000	0.61%
Cd 226.502	8180.0	0.0063 mg/L	0.00027	0.0063 mg/L	0.00027	4.26%
Ti 334.940	15179555.3	8.9548 mg/L	0.08524	8.9548 mg/L	0.08524	0.95%

Ca 227.546	719166.4	689.50 mg/L	7.145	685.50 mg/L	7.145	1.04%

Sequence No.: 46
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/14/2002 1:16:25 PM

Sample Prep Volume:
Data Type: Original

Analysis Begun

Start Time: 11/14/2002 1:18:37 PM
Logged In Analyst: optima2
Spectrometer Model: Optima 3100 XL

Plasma On Time: 11/14/2002 8:39:06 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\pe\administrator\Sample Information\Ev.sif
Results Data Set: A111402
Results Library: d:\pe\administrator\Results\Results.mdb

Sequence No.: 45
Sample ID: A1627-47A,4312
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 40
Date Collected: 11/14/2002 1:18:37 PM

Sample Prep Volume:
Data Type: Original

Analysis Begun

Start Time: 11/14/2002 1:20:05 PM
Logged In Analyst: optima2
Spectrometer Model: Optima 3100 XL

Plasma On Time: 11/14/2002 8:39:06 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\pe\administrator\Sample Information\Ev.sif
Results Data Set: A111402
Results Library: d:\pe\administrator\Results\Results.mdb

Sequence No.: 46
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/14/2002 1:20:05 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	576429.7	1.2533	mg/L	0.01297	1.2533	mg/L	0.01297	1.03%
Al 308.215	705021.3	10.228	mg/L	0.1697	10.228	mg/L	0.1697	1.66%
As 188.979	1707.1	0.5267	mg/L	0.00022	0.5267	mg/L	0.00022	0.04%
Ba 233.527	1536766.7	10.872	mg/L	0.1193	10.872	mg/L	0.1193	1.10%
Be 313.107	2989827.0	0.2556	mg/L	0.00070	0.2556	mg/L	0.00070	0.27%
Co 228.616	181608.5	2.6096	mg/L	0.02185	2.6096	mg/L	0.02185	0.84%
Cr 267.716	505963.9	1.0290	mg/L	0.01050	1.0290	mg/L	0.01050	1.02%
Cu 324.752	864905.7	1.2949	mg/L	0.01808	1.2949	mg/L	0.01808	1.40%
Fe 273.955	364284.0	5.2376	mg/L	0.04725	5.2376	mg/L	0.04725	0.90%
Mg 279.077	1632269.5	26.050	mg/L	0.2120	26.050	mg/L	0.2120	0.81%
Mn 257.610	1614504.5	2.5947	mg/L	0.02199	2.5947	mg/L	0.02199	0.85%
Ni 231.604	266133.8	2.5712	mg/L	0.02183	2.5712	mg/L	0.02183	0.85%
Pb 220.353	16641.7	0.5196	mg/L	0.00518	0.5196	mg/L	0.00518	1.00%
Sb 206.836	2834.1	0.5229	mg/L	0.00503	0.5229	mg/L	0.00503	0.96%
Se 196.026	1819.1	0.4993	mg/L	0.00037	0.4993	mg/L	0.00037	0.07%
Tl 190.801	2282.6	0.5170	mg/L	0.00040	0.5170	mg/L	0.00040	0.08%
V 292.402	1314429.0	2.5808	mg/L	0.03229	2.5808	mg/L	0.03229	1.25%
Zn 206.200	455219.0	2.6114	mg/L	0.01809	2.6114	mg/L	0.01809	0.69%
Na 330.237	75273.9	25.053	mg/L	0.2502	25.053	mg/L	0.2502	1.00%
Cd 226.502	138531.7	0.2577	mg/L	0.00166	0.2577	mg/L	0.00166	0.66%
Tl 334.940	3615.6	0.0021	mg/L	0.00011	0.0021	mg/L	0.00011	5.25%
Ca 227.546	26193.2	24.856	mg/L	0.0243	24.856	mg/L	0.0243	0.10%

Sequence No.: 47
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 11/14/2002 1:24:17 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	69.0	0.0001	mg/L	0.00017	0.0001	mg/L	0.00017	115.52%
Al 308.215	357.8	0.0052	mg/L	0.00038	0.0052	mg/L	0.00038	7.25%
As 188.979	1.7	0.0005	mg/L	0.00002	0.0005	mg/L	0.00002	3.56%
Ba 233.527	55.2	0.0004	mg/L	0.00003	0.0004	mg/L	0.00003	6.94%
Be 313.107	572.8	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	40.55%
Co 228.616	-3.6	-0.0001	mg/L	0.00006	-0.0001	mg/L	0.00006	122.56%
Cr 267.716	-15.8	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	2.08%
Cu 324.752	1016.6	0.0015	mg/L	0.00039	0.0015	mg/L	0.00039	25.50%
Fe 273.955	-408.0	-0.0059	mg/L	0.00282	-0.0059	mg/L	0.00282	47.99%
Mg 279.077	-743.9	-0.0119	mg/L	0.00087	-0.0119	mg/L	0.00087	7.33%
Mn 257.610	-96.7	-0.0002	mg/L	0.00003	-0.0002	mg/L	0.00003	19.14%
Ni 231.604	3.6	0.0000	mg/L	0.00010	0.0000	mg/L	0.00010	283.00%
Pb 220.353	0.3	0.0000	mg/L	0.00007	0.0000	mg/L	0.00007	767.87%
Sb 206.836	15.4	0.0028	mg/L	0.00188	0.0028	mg/L	0.00188	66.76%
Se 196.026	-5.4	-0.0015	mg/L	0.00037	-0.0015	mg/L	0.00037	24.75%
Tl 190.801	7.0	0.0016	mg/L	0.00080	0.0016	mg/L	0.00080	50.59%
V 292.402	94.4	0.0002	mg/L	0.00021	0.0002	mg/L	0.00021	113.16%
Zn 206.200	77.7	0.0004	mg/L	0.00031	0.0004	mg/L	0.00031	69.97%
Na 330.237	-66.2	-0.0220	mg/L	0.03605	-0.0220	mg/L	0.03605	163.51%
Cd 226.502	-25.4	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	5.47%
Tl 334.940	41.9	0.0000	mg/L	0.00008	0.0000	mg/L	0.00008	342.67%
Ca 227.546	-15.0	-0.0143	mg/L	0.00176	-0.0143	mg/L	0.00176	12.30%

Sequence No.: 48
Sample ID: A1627-29C,4312
Analyst:
Sample Wt: 1.09
Dilution: 2

Autosampler Location: 50
Date Collected: 11/14/2002 1:28:20 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1627-29C,4312

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-17530.2	0.0001	mg/L	0.00039	0.0001	mg/L	0.00039	266.99%
Al 308.215	126035097.7	182.84	mg/L	1.458	182.84	mg/L	1.458	0.80%
As 188.979	48.3	0.0465	mg/L	0.00312	0.0465	mg/L	0.00312	6.71%
Ba 233.527	247798.1	1.7439	mg/L	0.02363	1.7439	mg/L	0.02363	1.36%
Be 313.107	-2708.9	0.0088	mg/L	0.00001	0.0088	mg/L	0.00001	0.09%
Co 228.616	6370.4	0.0776	mg/L	0.00083	0.0776	mg/L	0.00083	1.06%
Cr 267.716	146240.7	0.2990	mg/L	0.00380	0.2990	mg/L	0.00380	1.27%
Cu 324.752	62413.3	0.1078	mg/L	0.00163	0.1078	mg/L	0.00163	1.52%
Fe 273.955	13722357.3	197.30	mg/L	0.722	197.30	mg/L	0.722	0.37%
Mg 279.077	4103456.4	65.480	mg/L	0.6548	65.480	mg/L	0.6548	1.00%
Mn 257.610	2993116.2	4.8142	mg/L	0.06475	4.8142	mg/L	0.06475	1.34%
Ni 231.604	13445.1	0.1270	mg/L	0.00171	0.1270	mg/L	0.00171	1.34%
Pb 220.353	2281.0	0.0954	mg/L	0.00162	0.0954	mg/L	0.00162	1.70%
Sb 206.836	11.5	0.0184	mg/L	0.00172	0.0184	mg/L	0.00172	9.38%
Se 196.026	-229.9	-0.0086	mg/L	0.00056	-0.0086	mg/L	0.00056	6.56%
Tl 190.801	-140.5	0.0042	mg/L	0.00035	0.0042	mg/L	0.00035	8.31%
V 292.402	210370.5	0.4070	mg/L	0.00527	0.4070	mg/L	0.00527	1.29%
Zn 206.200	74318.4	0.4131	mg/L	0.00287	0.4131	mg/L	0.00287	0.69%
Na 330.237	1739.6	1.3338	mg/L	0.09737	1.3338	mg/L	0.09737	3.11%
Cd 226.502	5877.9	0.0032	mg/L	0.00030	0.0032	mg/L	0.00030	9.29%
Tl 334.940	14806751.3	8.7304	mg/L	0.05547	8.7304	mg/L	0.05547	0.64%
Ca 227.546	22961.2	20.305	mg/L	0.1515	20.305	mg/L	0.1515	0.75%

Sequence No.: 49

Autosampler Location: 51

Sample ID: A1627-30C,4312
Analyst:
Sample Wt: 1.09
Dilution: 2

Date Collected: 11/14/2002 1:31:04 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1627-30C,4312

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-16916.9	0.0004	mg/L	0.00055	0.0004	mg/L	0.00055	131.37%
Al 308.215	11325591.6	164.31	mg/L	0.476	164.31	mg/L	0.476	0.29%
As 188.979	16.2	0.0349	mg/L	0.00453	0.0349	mg/L	0.00453	12.97%
Ba 233.527	192182.4	1.3509	mg/L	0.06601	1.3509	mg/L	0.00601	0.44%
Be 313.107	-12250.5	0.0065	mg/L	0.00001	0.0065	mg/L	0.00001	0.10%
Co 228.616	6036.0	0.0748	mg/L	0.00121	0.0748	mg/L	0.00121	1.61%
Cr 267.716	126690.2	0.2590	mg/L	0.00086	0.2590	mg/L	0.00086	0.33%
Cu 324.752	62463.1	0.1082	mg/L	0.00000	0.1082	mg/L	0.00000	0.00%
Fe 273.955	13259120.3	190.64	mg/L	0.704	190.64	mg/L	0.704	0.37%
Mg 279.077	3332850.2	53.188	mg/L	0.2636	53.188	mg/L	0.2636	0.50%
Mn 257.610	3008893.3	4.8396	mg/L	0.01531	4.8396	mg/L	0.01531	0.32%
Ni 231.604	13473.4	0.1276	mg/L	0.00250	0.1276	mg/L	0.00250	1.96%
Pb 220.353	2333.2	0.0944	mg/L	0.00096	0.0944	mg/L	0.00086	1.02%
Sb 206.836	-15.6	0.0119	mg/L	0.00263	0.0119	mg/L	0.00263	22.17%
Se 196.026	-226.5	-0.0096	mg/L	0.01043	-0.0096	mg/L	0.01043	109.19%
Tl 190.801	-114.4	0.0081	mg/L	0.00129	0.0081	mg/L	0.00129	15.85%
V 292.402	184907.0	0.3579	mg/L	0.00204	0.3579	mg/L	0.00204	0.57%
Zn 206.200	57275.0	0.3173	mg/L	0.00253	0.3173	mg/L	0.00253	0.80%
Na 330.237	3022.1	3.1929	mg/L	0.06782	3.1929	mg/L	0.06782	2.12%
Cd 226.502	5481.5	0.0028	mg/L	0.00009	0.0028	mg/L	0.00009	3.29%
Tl 334.940	12389592.2	7.3051	mg/L	0.02578	7.3051	mg/L	0.02578	0.35%
Ca 227.546	11100.4	9.0179	mg/L	0.00799	9.0179	mg/L	0.00799	0.09%

Sequence No.: 50
Sample ID: A1627-47A,4312
Analyst:
Sample Wt:
Dilution: 2

Autosampler Location: 52
Date Collected: 11/14/2002 1:33:49 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1627-47A,4312

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-9081.6	-0.0026	mg/L	0.00002	-0.0026	mg/L	0.00002	0.92%
Al 308.215	4843569.3	70.268	mg/L	0.2249	70.268	mg/L	0.2249	0.32%
As 188.979	16.4	0.0243	mg/L	0.00230	0.0243	mg/L	0.00230	9.47%
Ba 233.527	66154.6	0.4618	mg/L	0.00178	0.4618	mg/L	0.00178	0.38%
Be 313.107	-321229.1	0.0021	mg/L	0.00002	0.0021	mg/L	0.00002	1.12%
Co 228.616	4300.7	0.0540	mg/L	0.00078	0.0540	mg/L	0.00078	1.44%
Cr 267.716	54455.9	0.1120	mg/L	0.00024	0.1120	mg/L	0.00024	0.22%
Cu 324.752	209494.2	0.3248	mg/L	0.00049	0.3248	mg/L	0.00049	0.15%
Fe 273.955	8735506.4	125.60	mg/L	0.417	125.60	mg/L	0.417	0.33%
Mg 279.077	4541336.5	72.432	mg/L	0.2479	72.452	mg/L	0.2470	0.34%
Mn 257.610	1134276.6	1.8244	mg/L	0.00122	1.8244	mg/L	0.00122	0.07%
Ni 231.604	10705.1	0.1019	mg/L	0.00097	0.1019	mg/L	0.00097	0.96%
Pb 220.353	7469.4	0.2443	mg/L	0.00076	0.2443	mg/L	0.00076	0.31%
Sb 206.836	-18.7	0.0075	mg/L	0.00105	0.0075	mg/L	0.00105	14.13%
Se 196.026	-146.5	-0.0043	mg/L	0.00432	-0.0043	mg/L	0.00432	99.30%
Tl 190.801	-72.9	-0.0004	mg/L	0.01002	-0.0004	mg/L	0.01002	>999.9%
V 292.402	171750.7	0.3336	mg/L	0.00069	0.3336	mg/L	0.00069	0.03%
Zn 206.200	73069.1	0.4090	mg/L	0.00155	0.4090	mg/L	0.00155	0.38%
Na 330.237	12090.5	5.0781	mg/L	0.03731	5.0781	mg/L	0.03731	0.73%
Cd 226.502	4214.3	0.0029	mg/L	0.00015	0.0029	mg/L	0.00015	5.00%
Tl 334.940	7940791.1	4.6844	mg/L	0.02402	4.6844	mg/L	0.02402	0.51%
Ca 227.546	364035.8	346.91	mg/L	0.740	346.91	mg/L	0.740	0.21%

Sequence No.: 51
Sample ID: ICSA
Analyst:
Sample Wt:

Autosampler Location: 5
Date Collected: 11/14/2002 1:36:28 PM

Sample Prep Volume:

Dilution:

Data Type: Original

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-13551.3	-0.0064	mg/L	0.00036	-0.0064	mg/L	0.00036	5.68%
Al 308.215	34373764.1	498.69	mg/L	0.661	498.68	mg/L	0.661	0.13%
As 188.979	-52.9	0.0061	mg/L	0.00244	0.0061	mg/L	0.00244	40.04%
Ba 233.527	1652.1	0.0023	mg/L	0.00030	0.0023	mg/L	0.00030	12.60%
Be 313.107	-374.6	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	3.92%
Co 228.616	-26.1	-0.0013	mg/L	0.00051	-0.0013	mg/L	0.00051	38.90%
Cr 267.716	-1315.5	-0.0005	mg/L	0.00008	-0.0005	mg/L	0.00008	16.95%
Cu 324.752	-11831.5	0.0049	mg/L	0.00000	0.0049	mg/L	0.00000	0.01%
Fe 273.955	12191300.1	175.28	mg/L	0.072	175.28	mg/L	0.072	0.04%
Mg 279.077	30233265.2	482.26	mg/L	0.244	482.26	mg/L	0.244	0.05%
Mn 257.610	-10600.6	-0.0183	mg/L	0.00004	-0.0183	mg/L	0.00004	0.20%
Ni 231.604	-64.3	-0.0006	mg/L	0.00111	-0.0006	mg/L	0.00111	177.64%
Pb 220.353	-1355.5	0.0044	mg/L	0.00211	0.0044	mg/L	0.00211	48.05%
Sb 206.836	-11.1	0.0083	mg/L	0.00686	0.0083	mg/L	0.00686	82.27%
Se 196.026	-171.2	0.0085	mg/L	0.00952	0.0085	mg/L	0.00952	111.86%
Tl 190.801	82.3	0.0155	mg/L	0.00179	0.0155	mg/L	0.00179	11.51%
V 292.402	-18.4	-0.0015	mg/L	0.00023	-0.0015	mg/L	0.00023	15.29%
Zn 206.200	3003.1	-0.0077	mg/L	0.00031	-0.0077	mg/L	0.00031	3.97%
Na 330.237	992.4	0.0799	mg/L	0.07618	0.0799	mg/L	0.07618	95.40%
Cd 226.502	5164.3	0.0027	mg/L	0.00002	0.0027	mg/L	0.00002	0.90%
Tl 334.940	101220.7	0.0096	mg/L	0.00003	0.0096	mg/L	0.00003	0.36%
Ca 227.546	543146.9	517.90	mg/L	3.944	517.90	mg/L	3.944	0.76%

Sequence No.: 52
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 11/14/2002 1:39:07 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	82023.0	0.2010	mg/L	0.00419	0.2010	mg/L	0.00419	2.08%
Al 308.215	34013444.4	493.45	mg/L	0.129	493.45	mg/L	0.129	0.03%
As 188.979	277.6	0.1103	mg/L	0.00694	0.1103	mg/L	0.00694	6.29%
Ba 233.527	73078.3	0.5087	mg/L	0.00698	0.5087	mg/L	0.00698	1.37%
Be 313.107	5664374.6	0.4843	mg/L	0.00068	0.4843	mg/L	0.00068	0.14%
Co 228.616	30648.4	0.4409	mg/L	0.00070	0.4409	mg/L	0.00070	0.16%
Cr 267.716	229858.6	0.4696	mg/L	0.00696	0.4696	mg/L	0.00696	1.48%
Cu 324.752	327437.9	0.5136	mg/L	0.01081	0.5131	mg/L	0.01081	2.11%
Fe 273.955	12056021.1	173.34	mg/L	0.267	173.34	mg/L	0.267	0.15%
Mg 279.077	29827234.8	475.79	mg/L	1.019	475.79	mg/L	1.019	0.21%
Mn 257.610	286702.3	0.4596	mg/L	0.00789	0.4596	mg/L	0.00789	1.72%
Ni 231.604	90583.8	0.8752	mg/L	0.01802	0.8752	mg/L	0.01802	2.06%
Pb 220.353	13319.3	0.4672	mg/L	0.00993	0.4672	mg/L	0.00993	2.00%
Sb 206.836	3542.3	0.6595	mg/L	0.00582	0.6595	mg/L	0.00582	0.88%
Se 196.026	1617.4	0.4997	mg/L	0.00310	0.4997	mg/L	0.00310	0.62%
Tl 190.801	424.1	0.0930	mg/L	0.00577	0.0930	mg/L	0.00577	6.21%
V 292.402	247989.8	0.4861	mg/L	0.00735	0.4861	mg/L	0.00735	1.51%
Zn 206.200	157761.2	0.8811	mg/L	0.01022	0.8811	mg/L	0.01022	1.16%
Na 330.237	149686.4	49.650	mg/L	1.1910	49.650	mg/L	1.1910	2.40%
Cd 226.502	491014.4	0.9053	mg/L	0.01316	0.9053	mg/L	0.01316	1.45%
Tl 334.940	9821.5	0.0093	mg/L	0.00007	0.0093	mg/L	0.00007	0.78%
Ca 227.546	538587.8	513.52	mg/L	10.652	513.52	mg/L	10.652	2.07%

Sequence No.: 53
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/14/2002 1:41:51 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	558784.3	1.2149	mg/L	0.00074	1.2149	mg/L	0.00074	0.06%
Al 308.215	686285.2	9.9562	mg/L	0.00731	9.9562	mg/L	0.00731	0.07%
As 188.979	1701.4	0.5248	mg/L	0.00005	0.5248	mg/L	0.00005	0.01%
Ba 233.527	1506682.4	10.659	mg/L	0.0277	10.659	mg/L	0.0277	0.26%
Be 313.107	2942356.4	0.2516	mg/L	0.00104	0.2516	mg/L	0.00104	0.41%
Co 228.616	176508.7	2.5447	mg/L	0.00004	2.5447	mg/L	0.00004	0.00%
Cr 267.716	494908.8	1.0066	mg/L	0.00098	1.0066	mg/L	0.00098	0.10%
Cu 324.752	842371.6	1.2611	mg/L	0.00158	1.2611	mg/L	0.00158	0.13%
Fe 273.955	356333.1	5.1232	mg/L	0.00358	5.1232	mg/L	0.00358	0.07%
Mg 279.077	1603555.9	25.592	mg/L	0.0795	25.592	mg/L	0.0795	0.31%
Mn 257.610	1574835.5	2.5309	mg/L	0.00020	2.5309	mg/L	0.00020	0.01%
Ni 231.604	258489.4	2.4973	mg/L	0.00706	2.4973	mg/L	0.00706	0.28%
Pb 220.353	16400.4	0.5120	mg/L	0.00209	0.5120	mg/L	0.00209	0.41%
Sb 206.836	2802.5	0.5170	mg/L	0.00738	0.5170	mg/L	0.00738	1.43%
Se 196.026	1804.7	0.4957	mg/L	0.00243	0.4957	mg/L	0.00243	0.49%
Tl 190.801	2252.2	0.5101	mg/L	0.00178	0.5101	mg/L	0.00178	0.35%
V 292.402	1286610.1	2.5262	mg/L	0.00095	2.5262	mg/L	0.00095	0.04%
Zn 206.200	447532.1	2.5673	mg/L	0.00801	2.5673	mg/L	0.00801	0.31%
Na 330.237	72796.5	24.227	mg/L	0.1094	24.227	mg/L	0.1094	0.45%
Cd 226.502	135685.0	0.2524	mg/L	0.00047	0.2524	mg/L	0.00047	0.19%
Ti 334.940	3153.3	0.0019	mg/L	0.00007	0.0019	mg/L	0.00007	3.91%
Ca 227.546	26024.9	24.699	mg/L	0.1157	24.699	mg/L	0.1157	0.47%

Sequence No.: 54
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 11/14/2002 1:46:02 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	4.7	0.0000	mg/L	0.00008	0.0000	mg/L	0.00008	923.18%
Al 308.215	170.8	0.0025	mg/L	0.00242	0.0025	mg/L	0.00242	97.62%
As 188.979	1.2	0.0004	mg/L	0.00007	0.0004	mg/L	0.00007	20.69%
Ba 233.527	49.3	0.0003	mg/L	0.00007	0.0003	mg/L	0.00007	20.10%
Be 313.107	774.3	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	14.64%
Co 228.616	-5.2	-0.0001	mg/L	0.00018	-0.0001	mg/L	0.00018	236.98%
Cr 267.716	-28.0	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	20.74%
Cu 324.752	874.1	0.0013	mg/L	0.00043	0.0013	mg/L	0.00043	32.46%
Fe 273.955	-718.8	-0.0103	mg/L	0.00036	-0.0103	mg/L	0.00036	3.48%
Mg 279.077	-771.5	-0.0123	mg/L	0.00023	-0.0123	mg/L	0.00023	1.89%
Mn 257.610	-164.7	-0.0003	mg/L	0.00001	-0.0003	mg/L	0.00001	3.08%
Ni 231.604	-18.4	-0.0002	mg/L	0.00001	-0.0002	mg/L	0.00001	5.37%
Pb 220.353	0.5	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	113.43%
Sb 206.836	17.8	0.0033	mg/L	0.00039	0.0033	mg/L	0.00039	12.07%
Se 196.026	-6.2	-0.0017	mg/L	0.00094	-0.0017	mg/L	0.00094	54.52%
Tl 190.801	7.3	0.0016	mg/L	0.00056	0.0016	mg/L	0.00056	34.20%
V 292.402	88.5	0.0002	mg/L	0.00010	0.0002	mg/L	0.00010	60.13%
Zn 206.200	85.7	0.0005	mg/L	0.00035	0.0005	mg/L	0.00035	70.76%
Na 330.237	162.8	0.0543	mg/L	0.08107	0.0543	mg/L	0.08107	149.32%
Cd 226.502	-22.8	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	13.12%
Tl 334.940	150.4	0.0001	mg/L	0.00010	0.0001	mg/L	0.00010	115.79%
Ca 227.546	-6.8	-0.0064	mg/L	0.00843	-0.0064	mg/L	0.00843	131.05%

Analysis Begun

Start Time: 11/14/02 2:17:57 PM
Logged In Analyst: Optimal
Spectrometer Model: Optima 3000 DV

Plasma On Time: 11/14/02 12:52:23 PM
Technique: ICP Continuous
Autosampler Model: AS-90

Sample Information File: D:\pe\administrator\Sample Information\Ev.sif
Results Data Set: 111403 4
Results Library: D:\pe\administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: S0
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 11/14/02 2:17:57 PM

Sample Prep Volume:
Data Type: Original

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Na 589.592	2328.9	21.20	0.91%	[0.00]	mg/L

Sequence No.: 2
Sample ID: S1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 11/14/02 2:20:13 PM

Sample Prep Volume:
Data Type: Original

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Na 589.592	227939.6	840.80	0.37%	[50]	mg/L

Sequence No.: 3
Sample ID: S2
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 11/14/02 2:22:31 PM

Sample Prep Volume:
Data Type: Original

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Na 589.592	110871.8	369.21	0.33%	[25]	mg/L

Sequence No.: 4
Sample ID: S3
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 11/14/02 2:24:47 PM

Sample Prep Volume:
Data Type: Original

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Na 589.592	2254.5	15.08	0.67%	[0.5]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Na 589.592	3	Lin Thru 0	0.0	4534	0.00000	0.999940	

Sequence No.: 5
Sample ID: CHECK
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 11/14/02 2:27:04 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CHECK

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	5707.0	1.2741	mg/L	0.31753	1.2741	mg/L	0.31753	24.92%

Sequence No.: 6
Sample ID: LRA
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 16
Date Collected: 11/14/02 2:29:21 PM

Sample Prep Volume:
Data Type: Original

Mean Data: LRA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	964215.3	212.66	mg/L	1.094	212.66	mg/L	1.094	0.51%

Sequence No.: 7
Sample ID: ICV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/14/02 2:31:48 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	112240.3	24.755	mg/L	0.1485	24.755	mg/L	0.1485	0.60%

Sequence No.: 8
Sample ID: ICB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 11/14/02 2:34:06 PM

Sample Prep Volume:
Data Type: Original

Analysis Begun

Start Time: 11/14/02 2:34:49 PM
Logged In Analyst: Optimal
Spectrometer Model: Optima 3000 DV

Plasma On Time: 11/14/02 12:52:23 PM
Technique: ICP Continuous
Autosampler Model: AS-90

Sample Information File: D:\pe\administrator\Sample Information\Ev.sif
Results Data Set: 111403
Results Library: D:\pe\administrator\Results\Results.mdb

Sequence No.: 5
Sample ID: CHECK
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 11/14/02 2:34:49 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CHECK

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	226161.5	49.881	mg/L	0.0378	49.881	mg/L	0.0378	0.08%

Sequence No.: 6

Autosampler Location: 16

Sample ID: LRA
Analyst:
Sample Wt:
Dilution:

Date Collected: 11/14/02 2:37:07 PM

Sample Prep Volume:
Data Type: Original

Mean Data: LRA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	934399.6	206.09	mg/L	1.641	206.09	mg/L	1.641	0.80%

Sequence No.: 7
Sample ID: ICV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 11/14/02 2:39:34 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	113454.0	25.023	mg/L	0.0359	25.023	mg/L	0.0359	0.14%

Sequence No.: 8
Sample ID: ICB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 11/14/02 2:41:52 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	2626.3	0.5792	mg/L	0.02599	0.5792	mg/L	0.02599	4.49%

Sequence No.: 9
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 11/14/02 2:44:11 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	5156.2	1.1372	mg/L	0.00733	1.1372	mg/L	0.00733	0.64%

Sequence No.: 10
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 11/14/02 2:46:30 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	269719.3	59.488	mg/L	0.5477	59.488	mg/L	0.5477	0.92%

Sequence No.: 11
Sample ID: MB-4311,4311
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 22
Date Collected: 11/14/02 2:48:52 PM

Sample Prep Volume:
Data Type: Original

Mean Data: MB-4311,4311

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	1787.9	0.3943	mg/L	0.00331	0.3943	mg/L	0.00331	0.84%

Sequence No.: 12
Sample ID: LCS-4311,4311
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 23
Date Collected: 11/14/02 2:51:09 PM
Sample Prep Volume:
Data Type: Original

Mean Data: LCS-4311,4311

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	100675.1	22.204	mg/L	0.0849	22.204	mg/L	0.0849	0.38%

Sequence No.: 13
Sample ID: A1627-36A,4311
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 24
Date Collected: 11/14/02 2:53:27 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1627-36A,4311

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	3360.6	0.7412	mg/L	0.01645	0.7412	mg/L	0.01645	2.22%

Sequence No.: 14
Sample ID: A1627-37A,4311
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 25
Date Collected: 11/14/02 2:55:46 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1627-37A,4311

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	4164.0	0.9184	mg/L	0.00005	0.9184	mg/L	0.00005	0.01%

Sequence No.: 15
Sample ID: MB-4310,4310
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 26
Date Collected: 11/14/02 2:58:05 PM
Sample Prep Volume:
Data Type: Original

Mean Data: MB-4310,4310

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	718.0	0.1584	mg/L	0.00199	0.1584	mg/L	0.00199	1.25%

Sequence No.: 16
Sample ID: LCS-4310,4310
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 27
Date Collected: 11/14/02 3:00:24 PM
Sample Prep Volume:
Data Type: Original

Mean Data: LCS-4310,4310

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	98856.6	21.803	mg/L	0.2078	21.803	mg/L	0.2078	0.95%

Sequence No.: 17
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 11/14/02 3:02:44 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	107657.7	23.744	mg/L	0.1297	23.744	mg/L	0.1297	0.55%

Sequence No.: 18
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 11/14/02 3:05:02 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	402.1	0.0887	mg/L	0.00259	0.0887	mg/L	0.00259	2.92%

Sequence No.: 19
Sample ID: A1627-07B,4310
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 28
Date Collected: 11/14/02 3:07:21 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1627-07B,4310

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	692.3	0.1527	mg/L	0.00878	0.1527	mg/L	0.00878	5.75%

Sequence No.: 20
Sample ID: A1627-13B,4310
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 29
Date Collected: 11/14/02 3:09:42 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1627-13B,4310

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	562.2	0.1240	mg/L	0.01234	0.1240	mg/L	0.01234	9.95%

Sequence No.: 21
Sample ID: A1627-25B,4310
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 30
Date Collected: 11/14/02 3:12:03 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1627-25B,4310

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	325.7	0.0718	mg/L	0.01458	0.0718	mg/L	0.01458	20.29%

Sequence No.: 22
Sample ID: A1627-51B,4310
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 31
Date Collected: 11/14/02 3:14:24 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1627-51B,4310

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	201.1	0.0443	mg/L	0.00992	0.0443	mg/L	0.00992	22.36%

Sequence No.: 23
Sample ID: A1627-51BSD,4310
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 17
Date Collected: 11/14/02 3:16:46 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1627-51BSD,4310

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	654.9	0.1444	mg/L	0.00810	0.1444	mg/L	0.00810	5.61%

Sequence No.: 24
Sample ID: MB-4312,4312
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 32
Date Collected: 11/14/02 3:19:02 PM
Sample Prep Volume:
Data Type: Original

Mean Data: MB-4312,4312

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	-431.1	-0.0951	mg/L	0.00822	-0.0951	mg/L	0.00822	8.64%

Sequence No.: 25
Sample ID: LCS-4312,4312
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 33
Date Collected: 11/14/02 3:21:17 PM
Sample Prep Volume:
Data Type: Original

Mean Data: LCS-4312,4312

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	97267.5	21.453	mg/L	0.0559	21.453	mg/L	0.0559	0.26%

Sequence No.: 26
Sample ID: A1627-02C,4312
Analyst:
Sample Wt: 1.07g
Dilution:
Autosampler Location: 34
Date Collected: 11/14/02 3:23:32 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1627-02C,4312

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	42153.8	9.2973	mg/L	0.00534	9.2973	mg/L	0.00534	0.06%

Sequence No.: 27
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 11/14/02 3:25:47 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	105778.2	23.330	mg/L	0.0972	23.330	mg/L	0.0972	0.42%

Sequence No.: 28
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 11/14/02 3:28:05 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	-478.0	-0.1054	mg/L	0.00355	-0.1054	mg/L	0.00355	3.37%

Sequence No.: 29
Sample ID: A1627-03C,4312
Analyst:
Sample Wt: 1.02g
Dilution:
Autosampler Location: 35
Date Collected: 11/14/02 3:30:25 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1627-03C,4312

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	67574.8	14.904	mg/L	0.1495	14.904	mg/L	0.1495	1.00%

Sequence No.: 30
Sample ID: A1627-29C,4312
Analyst:
Sample Wt: 1.02g
Dilution:
Autosampler Location: 36
Date Collected: 11/14/02 3:32:41 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1627-29C,4312

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	30369.2	6.6319	mg/L	0.08349	6.6319	mg/L	0.08349	1.26%

Sequence No.: 31
Sample ID: A1627-30C,4312
Analyst:
Sample Wt: 1.14g
Dilution:
Autosampler Location: 37
Date Collected: 11/14/02 3:34:58 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1627-30C,4312

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	31153.4	6.8711	mg/L	0.03383	6.8711	mg/L	0.03383	0.49%

Sequence No.: 32
Sample ID: A1627-31C,4312
Analyst:
Sample Wt: 1.06g
Dilution:
Autosampler Location: 38
Date Collected: 11/14/02 3:37:15 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1627-31C,4312

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	12346.4	2.7231	mg/L	0.02833	2.7231	mg/L	0.02833	1.04%

Sequence No.: 33
Sample ID: A1627-46A,4312
Analyst:
Sample Wt: 1.07g
Dilution:
Autosampler Location: 39
Date Collected: 11/14/02 3:39:33 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1627-46A,4312

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Na 589.592	26618.7	5.8709	mg/L	0.05268	5.8709	mg/L	0.05268	0.90%

Sequence No.: 34
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 5
Date Collected: 11/14/02 3:41:50 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Na 589.592	788.5	0.1739	mg/L	0.01600	0.1739	mg/L	0.01600	9.20%

Sequence No.: 35
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 6
Date Collected: 11/14/02 3:44:10 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Na 589.592	270468.2	59.653	mg/L	0.6572	59.653	mg/L	0.6572	1.10%

Sequence No.: 36
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 11/14/02 3:46:32 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Na 589.592	108713.4	23.977	mg/L	0.1062	23.977	mg/L	0.1062	0.44%

Sequence No.: 37
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 11/14/02 3:48:50 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Na 589.592	-451.3	-0.0996	mg/L	0.00286	-0.0996	mg/L	0.00286	2.87%

Analysis Begun

Start Time: 11/15/02 8:40:29 AM
Logged In Analyst: Optimal
Spectrometer Model: Optima 3000 DV
Plasma On Time: 11/15/02 8:05:21 AM
Technique: ICP Continuous
Autosampler Model: AS-90

Sample Information File: D:\pe\administrator\Sample Information\Ev.sif
Results Data Set: 111501
Results Library: D:\pe\administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: S0
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 11/15/02 8:40:29 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Calib Units
K 766.490	-154.5	50.20	32.50%	[0.00]	mg/L

Sequence No.: 2
Sample ID: S1
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 2
Date Collected: 11/15/02 8:42:45 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Calib Units
K 766.490	70570.1	1012.40	1.43%	[50]	mg/L

Sequence No.: 3
Sample ID: S2
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 9
Date Collected: 11/15/02 8:45:02 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Calib Units
K 766.490	33230.2	203.42	0.61%	[25]	mg/L

Sequence No.: 4
Sample ID: S3
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 10
Date Collected: 11/15/02 8:47:17 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Calib Units
K 766.490	652.8	18.58	2.85%	[0.5]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
K 766.490	3	Lin Thru 0	0.0	1395	0.00000	0.999722	

Sequence No.: 5
Sample ID: CHECK
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 2
Date Collected: 11/15/02 8:49:34 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CHECK

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
K 766.490	69964.4	50.155	mg/L	0.4171	50.155	mg/L	0.4171	0.83%

Sequence No.: 6
Sample ID: LRA
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 16
Date Collected: 11/15/02 8:51:51 AM
Sample Prep Volume:
Data Type: Original

Mean Data: LRA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
K 766.490	301011.9	215.79	mg/L	1.698	215.79	mg/L	1.698	0.79%

Sequence No.: 7
Sample ID: ICV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 11/15/02 8:54:15 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
K 766.490	33219.3	23.814	mg/L	0.4344	23.814	mg/L	0.4344	1.82%

Sequence No.: 8
Sample ID: ICB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 11/15/02 8:56:32 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
K 766.490	222.8	0.1597	mg/L	0.01760	0.1597	mg/L	0.01760	11.02%

Sequence No.: 9
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 5
Date Collected: 11/15/02 8:58:51 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
K 766.490	563.2	0.4037	mg/L	0.00206	0.4037	mg/L	0.00206	0.51%

Sequence No.: 10
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 6
Date Collected: 11/15/02 9:01:10 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
K 766.490	31885.6	22.858	mg/L	0.2401	22.858	mg/L	0.2401	1.05%

Sequence No.: 11
Sample ID: MB-4311,4311
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 22
Date Collected: 11/15/02 9:03:31 AM
Sample Prep Volume:
Data Type: Original

Mean Data: MB-4311,4311

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
K 766.490	239.2	0.1715	mg/L	0.01231	0.1715	mg/L	0.01231	7.18%

Sequence No.: 12
Sample ID: LCS-4311,4311
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 23
Date Collected: 11/15/02 9:05:48 AM
Sample Prep Volume:
Data Type: Original

Mean Data: LCS-4311,4311

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
K 766.490	29963.5	21.480	mg/L	0.0946	21.480	mg/L	0.0946	0.44%

Sequence No.: 13
Sample ID: A1627-36A,4311
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 24
Date Collected: 11/15/02 9:08:06 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1627-36A,4311

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
K 766.490	164.4	0.1178	mg/L	0.03552	0.1178	mg/L	0.03552	30.14%

Sequence No.: 14
Sample ID: A1627-37A,4311
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 25
Date Collected: 11/15/02 9:10:25 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1627-37A,4311

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
K 766.490	194.8	0.1396	mg/L	0.00407	0.1396	mg/L	0.00407	2.91%

Sequence No.: 15
Sample ID: MB-4310,4310
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 26
Date Collected: 11/15/02 9:12:44 AM
Sample Prep Volume:
Data Type: Original

Mean Data: MB-4310,4310

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
K 766.490	73.1	0.0524	mg/L	0.04715	0.0524	mg/L	0.04715	89.97%

Sequence No.: 16
Sample ID: LCS-4310,4310
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 27
Date Collected: 11/15/02 9:15:03 AM
Sample Prep Volume:
Data Type: Original

Mean Data: LCS-4310,4310

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	29636.0	21.245	mg/L	0.0258	21.245	mg/L	0.0258	0.12%

Sequence No.: 17
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 11/15/02 9:17:23 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	32027.1	22.959	mg/L	0.0837	22.959	mg/L	0.0837	0.36%

Sequence No.: 18
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 11/15/02 9:19:41 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	80.2	0.0575	mg/L	0.02732	0.0575	mg/L	0.02732	47.50%

Sequence No.: 19
Sample ID: A1627-07B,4310
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 28
Date Collected: 11/15/02 9:22:00 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1627-07B,4310

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	78.1	0.0560	mg/L	0.03054	0.0560	mg/L	0.03054	54.59%

Sequence No.: 20
Sample ID: A1627-13B,4310
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 29
Date Collected: 11/15/02 9:24:21 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1627-13B,4310

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	25.9	0.0186	mg/L	0.02936	0.0186	mg/L	0.02936	158.00%

Sequence No.: 21
Sample ID: A1627-25B,4310
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 30
Date Collected: 11/15/02 9:26:42 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1627-25B,4310

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	40.5	0.0291	mg/L	0.00608	0.0291	mg/L	0.00606	20.86%

Sequence No.: 22
Sample ID: A1627-51B,4310
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 31
Date Collected: 11/15/02 9:29:03 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1627-51B,4310

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	7.5	0.0053	mg/L	0.02937	0.0053	mg/L	0.02937	549.59%

Sequence No.: 23
Sample ID: A1627-51BSD,4310
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 17
Date Collected: 11/15/02 9:31:24 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1627-51BSD,4310

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	-34.6	-0.0248	mg/L	0.03749	-0.0248	mg/L	0.03749	151.02%

Sequence No.: 24
Sample ID: MB-4312,4312
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 32
Date Collected: 11/15/02 9:33:39 AM
Sample Prep Volume:
Data Type: Original

Mean Data: MB-4312,4312

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	-55.9	-0.0401	mg/L	0.01631	-0.0401	mg/L	0.01631	40.67%

Sequence No.: 25
Sample ID: LCS-4312,4312
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 33
Date Collected: 11/15/02 9:35:54 AM
Sample Prep Volume:
Data Type: Original

Mean Data: LCS-4312,4312

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	29603.0	21.221	mg/L	0.1658	21.221	mg/L	0.1658	0.78%

Sequence No.: 26
Sample ID: A1627-02C,4312
Analyst:
Sample Wt: 1.07g
Dilution:
Autosampler Location: 34
Date Collected: 11/15/02 9:38:09 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1627-02C,4312

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	91214.6	65.389	mg/L	1.1820	65.389	mg/L	1.1820	1.81%

Sequence No.: 27
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 11/15/02 9:40:24 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	32250.4	23.119	mg/L	0.0912	23.119	mg/L	0.0912	0.39%

Sequence No.: 28
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 11/15/02 9:42:42 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	-33.8	-0.0243	mg/L	0.00470	-0.0243	mg/L	0.00470	19.38%

Sequence No.: 29
Sample ID: A1627-03C,4312
Analyst:
Sample Wt: 1.12g
Dilution:
Autosampler Location: 35
Date Collected: 11/15/02 9:45:01 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1627-03C,4312

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	29261.2	20.976	mg/L	0.4914	20.976	mg/L	0.4914	2.34%

Sequence No.: 30
Sample ID: A1627-29C,4312
Analyst:
Sample Wt: 1.02g
Dilution:
Autosampler Location: 36
Date Collected: 11/15/02 9:47:16 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1627-29C,4312

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	51550.7	36.955	mg/L	0.3349	36.955	mg/L	0.3349	0.91%

Sequence No.: 31
Sample ID: A1627-30C,4312
Analyst:
Sample Wt: 1.11g
Dilution:
Autosampler Location: 37
Date Collected: 11/15/02 9:49:33 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1627-30C,4312

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	35890.9	25.700	mg/L	0.3566	25.700	mg/L	0.3566	1.39%

Sequence No.: 32
Sample ID: A1627-31C,4312
Analyst:
Sample Wt: 1.06g
Autosampler Location: 38
Date Collected: 11/15/02 9:51:50 AM
Sample Prep Volume:

Dilution:
Data Type: Original

Mean Data: A1627-31C,4312

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	84492.9	60.570	mg/L	0.6481	60.570	mg/L	0.6481	1.07%

Sequence No.: 33
Sample ID: A1627-46A,4312
Analyst:
Sample Wt: 1.07g
Dilution:
Autosampler Location: 39
Date Collected: 11/15/02 9:54:07 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1627-46A,4312

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	85025.7	60.952	mg/L	0.5584	60.952	mg/L	0.5584	0.92%

Sequence No.: 34
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 5
Date Collected: 11/15/02 9:56:25 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	256.2	0.1837	mg/L	0.00162	0.1837	mg/L	0.00162	0.88%

Sequence No.: 35
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 6
Date Collected: 11/15/02 9:58:45 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	31510.9	22.589	mg/L	0.2359	22.589	mg/L	0.2359	1.04%

Sequence No.: 36
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 11/15/02 10:01:06 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	32241.0	23.113	mg/L	0.3980	23.113	mg/L	0.3980	1.72%

Sequence No.: 37
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 11/15/02 10:03:23 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Method: K 6010		Page 8		Date: 11/15/02 10:04:42 AM	
K 766.490	9.5	0.0068 mg/L	0.01844	0.0068 mg/L	0.01844 271.45%

001311

H11132E

Method Name: HG_COMM
Method Description: Hgcomm
Element: Hg

A1649-01 1636 TUI'S
A1646-13
A1627-1-6
A1627-all Good for A

Date: 11/13/2002
Technique:FI-MHS
Calibration Type:
Hg, Zero Intercept: Linear
Wavelength: 253.7 nm
Sample Info Name: TEST.SIF

Results Data Set Name: H111302

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 11/13/2002
Sample ID: S0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0008	0.0045	0.0008	04:16:48	Yes
2			0.0009	0.0056	0.0009	04:17:18	Yes
Mean:			0.0009				
SD :			0.0001				
%RSD:			6.2548				

Auto-zero performed.

Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 11/13/2002
Sample ID: S0.2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0029	0.0210	0.0038	04:18:09	Yes
2			0.0028	0.0208	0.0037	04:18:38	Yes
Mean:			0.0029				
SD :			0.0001				
%RSD:			1.7771				

[Hg] Standard number 1 applied. [0.20]
Correlation Coefficient: 1.00000 Slope: 0.01427

Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 11/13/2002
Sample ID: S1.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0175	0.0996	0.0184	04:19:29	Yes
2			0.0175	0.1002	0.0184	04:19:59	Yes
Mean:			0.0175				
SD :			0.0000				
%RSD:			0.1232				

[Hg] Standard number 2 applied. [1.00]
Correlation Coefficient: 0.99794 Slope: 0.01739

Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 11/13/2002
Sample ID: S2.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0359	0.1995	0.0368	04:20:51	Yes
2			0.0359	0.1983	0.0368	04:21:20	Yes
Mean:			0.0359				
SD :			0.0000				
%RSD:							

[Hg] Standard number 3 applied. [2.00]
Correlation Coefficient: 0.99935 Slope: 0.01783

001312

Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 11/13/2002
Sample ID: S5.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0903	0.4953	0.0912	04:22:11	Yes
2			0.0906	0.4940	0.0914	04:22:40	Yes
Mean:			0.0904				
SD :			0.0002				
%RSD:			0.1671				

[Hg] Standard number 4 applied. [5.00]
Correlation Coefficient: 0.99989 Slope: 0.01805

Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 11/13/2002
Sample ID: S10.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.1751	0.9568	0.1760	04:23:31	Yes
2			0.1746	0.9544	0.1755	04:24:00	Yes
Mean:			0.1749				
SD :			0.0003				
%RSD:			0.1947				

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99979 Slope: 0.01762

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
S0	0.0009	--	----	----	----
S0.2	0.0029	0.20	0.16	0.000	1.8
S1.0	0.0175	1.00	0.99	0.000	0.1
S2.0	0.0359	2.00	2.04	0.000	----
S5.0	0.0904	5.00	5.13	0.000	0.2
S10.0	0.1749	10.00	9.92	0.000	0.2

Correlation Coefficient: 0.99979 Slope: 0.01762 ----

Element: Hg Seq. No.: 7 AS Loc.: 7 Date: 11/13/2002
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.80	4.80	0.0846	0.4647	0.0855	04:24:50	Yes
2	4.83	4.83	0.0852	0.4669	0.0860	04:25:19	Yes
Mean:	4.82	4.82	0.0849				
SD :	0.022	0.022	0.0004				
%RSD:	0.5	0.5	0.4667				

QC value within specified limits.

Element: Hg Seq. No.: 8 AS Loc.: 1 Date: 11/13/2002
Sample ID: ICB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0001	0.0033	0.0008	04:26:11	Yes
2	0.00	0.00	0.0000	0.0041	0.0009	04:26:40	Yes
Mean:	0.00	0.00	0.0000				
SD :	0.003	0.003	0.0001				
%RSD:	126.5	126.5	126.5474				

QC value within specified limits.

001313

Element: Hg Seq. No.: 9 AS Loc.: 9 Date: 11/13/2002
Sample ID: MB-4314

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.03	-0.03	-0.0006	0.0001	0.0003	04:27:30	Yes
2	-0.03	-0.03	-0.0005	0.0017	0.0004	04:27:59	Yes
Mean:	-0.03	-0.03	-0.0005				
SD :	0.006	0.006	0.0001				
%RSD:	18.2	18.2	18.2216				

Element: Hg Seq. No.: 10 AS Loc.: 10 Date: 11/13/2002
Sample ID: LCS-4314 102%

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.67	4.67	0.0823	0.4401	0.0831	04:28:49	Yes
2	4.62	4.62	0.0814	0.4373	0.0822	04:29:18	Yes
Mean:	4.64	4.64	0.0818				
SD :	0.036	0.036	0.0006				
%RSD:	0.8	0.8	0.7803				

Element: Hg Seq. No.: 11 AS Loc.: 11 Date: 11/13/2002
Sample ID: A1648-01A 0.60

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.10	0.10	0.0017	0.0135	0.0026	04:30:08	Yes
2	0.10	0.10	0.0018	0.0142	0.0027	04:30:37	Yes
Mean:	0.10	0.10	0.0018				
SD :	0.003	0.003	0.0000				
%RSD:	2.7	2.7	2.6753				

Element: Hg Seq. No.: 12 AS Loc.: 12 Date: 11/13/2002
Sample ID: A1646-01A 0.64

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.12	0.12	0.0021	0.0158	0.0030	04:31:28	Yes
2	0.12	0.12	0.0022	0.0166	0.0031	04:31:57	Yes
Mean:	0.12	0.12	0.0022				
SD :	0.002	0.002	0.0000				
%RSD:	1.5	1.5	1.4963				

Element: Hg Seq. No.: 13 AS Loc.: 13 Date: 11/13/2002
Sample ID: A1646-02A 0.63

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.15	0.15	0.0026	0.0182	0.0034	04:32:47	Yes
2	0.14	0.14	0.0025	0.0178	0.0034	04:33:16	Yes
Mean:	0.14	0.14	0.0026				
SD :	0.001	0.001	0.0000				
%RSD:	0.6	0.6	0.5955				

Element: Hg Seq. No.: 14 AS Loc.: 14 Date: 11/13/2002
Sample ID: A1646-03A 0.64

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.16	0.16	0.0029	0.0208	0.0038	04:34:06	Yes
2	0.16	0.16	0.0028	0.0196	0.0037	04:34:35	Yes
Mean:	0.16	0.16	0.0028				

001314

SD :	0.005	0.005	0.0001
%RSD:	2.8	2.8	2.8464

Element: Hg Seq. No.: 15 AS Loc.: 15 Date: 11/13/2002
Sample ID: A1622-01A 0.63

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.35	0.35	0.0062	0.0377	0.0071	04:35:25	Yes
2	0.35	0.35	0.0062	0.0370	0.0071	04:35:54	Yes
Mean:	0.35	0.35	0.0062				
SD :	0.001	0.001	0.0000				
%RSD:	0.3	0.3	0.3067				

Element: Hg Seq. No.: 16 AS Loc.: 16 Date: 11/13/2002
Sample ID: A1622-02A 0.64

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.22	0.22	0.0038	0.0252	0.0047	04:36:44	Yes
2	0.21	0.21	0.0038	0.0247	0.0047	04:37:13	Yes
Mean:	0.22	0.22	0.0038				
SD :	0.002	0.002	0.0000				
%RSD:	0.8	0.8	0.8089				

Element: Hg Seq. No.: 17 AS Loc.: 7 Date: 11/13/2002
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.85	4.85	0.0854	0.4674	0.0863	04:38:04	Yes
2	4.80	4.80	0.0847	0.4639	0.0855	04:38:33	Yes
Mean:	4.83	4.83	0.0850				
SD :	0.031	0.031	0.0005				
%RSD:	0.6	0.6	0.6383				

QC value within specified limits.

Element: Hg Seq. No.: 18 AS Loc.: 1 Date: 11/13/2002
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0000	0.0040	0.0009	04:39:25	Yes
2	0.00	0.00	0.0000	0.0042	0.0009	04:39:54	Yes
Mean:	0.00	0.00	0.0000				
SD :	0.002	0.002	0.0000				
%RSD:	241.0	241.0	241.0069				

QC value within specified limits.

Element: Hg Seq. No.: 19 AS Loc.: 17 Date: 11/13/2002
Sample ID: A1622-03A 0.62

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.15	0.15	0.0026	0.0186	0.0035	04:40:44	Yes
2	0.14	0.14	0.0025	0.0184	0.0034	04:41:13	Yes
Mean:	0.15	0.15	0.0026				
SD :	0.002	0.002	0.0000				
%RSD:	1.1	1.1	1.1315				

Element: Hg Seq. No.: 20 AS Loc.: 18 Date: 11/13/2002

001315

Sample ID: A1622-04A 0.69

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.34	1.34	0.0235	0.1289	0.0244	04:42:03	Yes
2	1.33	1.33	0.0235	0.1278	0.0244	04:42:32	Yes
Mean:	1.33	1.33	0.0235				
SD :	0.001	0.001	0.0000				
%RSD:	0.1	0.1	0.1087				

Element: Hg Seq. No.: 21 AS Loc.: 19 Date: 11/13/2002
Sample ID: A1622-04ADUP 0.69

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.42	1.42	0.0250	0.1364	0.0259	04:43:23	Yes
2	1.42	1.42	0.0251	0.1372	0.0260	04:43:53	Yes
Mean:	1.42	1.42	0.0250				
SD :	0.004	0.004	0.0001				
%RSD:	0.3	0.3	0.3030				

Element: Hg Seq. No.: 22 AS Loc.: 20 Date: 11/13/2002
Sample ID: A1622-04AMS 0.69 96%

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.70	5.70	0.1004	0.5385	0.1013	04:44:43	Yes
2	5.70	5.70	0.1005	0.5374	0.1014	04:45:12	Yes
Mean:	5.70	5.70	0.1005				
SD :	0.001	0.001	0.0000				
%RSD:							

Element: Hg Seq. No.: 23 AS Loc.: 21 Date: 11/13/2002
Sample ID: A1622-05A 0.69

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.86	0.86	0.0151	0.0841	0.0160	04:46:02	Yes
2	0.87	0.87	0.0152	0.0857	0.0161	04:46:31	Yes
Mean:	0.86	0.86	0.0152				
SD :	0.006	0.006	0.0001				
%RSD:	0.7	0.7	0.6552				

Element: Hg Seq. No.: 24 AS Loc.: 22 Date: 11/13/2002
Sample ID: A1622-06A 0.72

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.74	0.74	0.0131	0.0735	0.0139	04:47:21	Yes
2	0.75	0.75	0.0131	0.0734	0.0140	04:47:50	Yes
Mean:	0.74	0.74	0.0131				
SD :	0.003	0.003	0.0001				
%RSD:	0.5	0.5	0.4563				

Element: Hg Seq. No.: 25 AS Loc.: 23 Date: 11/13/2002
Sample ID: A1627-02C 0.69

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.20	0.20	0.0035	0.0240	0.0044	04:48:40	Yes
2	0.19	0.19	0.0033	0.0210	0.0041	04:49:09	Yes
Mean:	0.19	0.19	0.0034				

001316

SD :	0.009	0.009	0.0002
%RSD:	4.9	4.9	4.9361

Element: Hg Seq. No.: 26 AS Loc.: 24 Date: 11/13/2002
Sample ID: A1627-03C 0.67

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02	0.02	0.0004	0.0064	0.0013	04:49:59	Yes
2	0.03	0.03	0.0005	0.0078	0.0014	04:50:28	Yes
Mean:	0.02	0.02	0.0004				
SD :	0.004	0.004	0.0001				
%RSD:	15.5	15.5	15.4642				

Element: Hg Seq. No.: 27 AS Loc.: 7 Date: 11/13/2002
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.85	4.85	0.0855	0.4676	0.0864	04:51:19	Yes
2	4.83	4.83	0.0851	0.4653	0.0860	04:51:48	Yes
Mean:	4.84	4.84	0.0853				
SD :	0.015	0.015	0.0003				
%RSD:	0.3	0.3	0.3187				

QC value within specified limits.

Element: Hg Seq. No.: 28 AS Loc.: 1 Date: 11/13/2002
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0000	0.0040	0.0009	04:52:40	Yes
2	0.01	0.01	0.0002	0.0065	0.0011	04:53:09	Yes
Mean:	0.01	0.01	0.0001				
SD :	0.007	0.007	0.0001				
%RSD:	109.4	109.4	109.3651				

QC value within specified limits.

Element: Hg Seq. No.: 29 AS Loc.: 25 Date: 11/13/2002
Sample ID: A1627-29C 0.67

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.15	0.15	0.0026	0.0191	0.0035	04:54:01	Yes
2	0.15	0.15	0.0026	0.0183	0.0035	04:54:30	Yes
Mean:	0.15	0.15	0.0026				
SD :	0.002	0.002	0.0000				
%RSD:	1.4	1.4	1.3809				

Element: Hg Seq. No.: 30 AS Loc.: 26 Date: 11/13/2002
Sample ID: A1627-30C 0.689

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.10	0.10	0.0018	0.0144	0.0027	04:55:20	Yes
2	0.12	0.12	0.0021	0.0177	0.0029	04:55:49	Yes
Mean:	0.11	0.11	0.0019				
SD :	0.010	0.010	0.0002				
%RSD:	9.1	9.1	9.0523				

Element: Hg Seq. No.: 31 AS Loc.: 27 Date: 11/13/2002

001317

Sample ID: A1627-31C 0.60

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.12	0.12	0.0021	0.0164	0.0030	04:56:40	Yes
2	0.12	0.12	0.0021	0.0157	0.0030	04:57:10	Yes
Mean:	0.12	0.12	0.0021				
SD :	0.002	0.002	0.0000				
%RSD:	1.4	1.4	1.4085				

Element: Hg Seq. No.: 32 AS Loc.: 28 Date: 11/13/2002
Sample ID: A1627-46A 0.69

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02	0.02	0.0003	0.0054	0.0012	04:58:00	Yes
2	0.02	0.02	0.0003	0.0062	0.0012	04:58:29	Yes
Mean:	0.02	0.02	0.0003				
SD :	0.002	0.002	0.0000				
%RSD:	10.6	10.6	10.6495				

Element: Hg Seq. No.: 33 AS Loc.: 29 Date: 11/13/2002
Sample ID: A1627-47A 0.69

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.22	0.22	0.0038	0.0245	0.0047	04:59:19	Yes
2	0.22	0.22	0.0038	0.0240	0.0047	04:59:48	Yes
Mean:	0.22	0.22	0.0038				
SD :	0.001	0.001	0.0000				
%RSD:	0.7	0.7	0.6680				

Element: Hg Seq. No.: 34 AS Loc.: 30 Date: 11/13/2002
Sample ID: MB-4313

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.03	-0.03	-0.0005	0.0014	0.0004	05:00:38	Yes
2	-0.02	-0.02	-0.0004	0.0020	0.0005	05:01:07	Yes
Mean:	-0.03	-0.03	-0.0004				
SD :	0.002	0.002	0.0000				
%RSD:	6.9	6.9	6.8545				

Element: Hg Seq. No.: 35 AS Loc.: 31 Date: 11/13/2002
Sample ID: LCS-4313 80%

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.02	4.02	0.0708	0.3840	0.0717	05:01:57	Yes
2	4.04	4.04	0.0712	0.3830	0.0720	05:02:27	Yes
Mean:	4.03	4.03	0.0710				
SD :	0.015	0.015	0.0003				
%RSD:	0.4	0.4	0.3670				

Element: Hg Seq. No.: 36 AS Loc.: 32 Date: 11/13/2002
Sample ID: MB-4294

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0004	-0.0002	0.0005	05:03:20	Yes
2	-0.01	-0.01	-0.0001	0.0031	0.0008	05:03:49	Yes
Mean:	-0.01	-0.01	-0.0002				

001318

SD :	0.009	0.009	0.0002
%RSD:	65.2	65.2	65.1920

Element: Hg Seq. No.: 37 AS Loc.: 7 Date: 11/13/2002
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.92	4.92	0.0868	0.4735	0.0876	05:04:42	Yes
2	4.89	4.89	0.0861	0.4760	0.0870	05:05:11	Yes
Mean:	4.91	4.91	0.0864				
SD :	0.025	0.025	0.0004				
%RSD:	0.5	0.5	0.5070				

QC value within specified limits.

Element: Hg Seq. No.: 38 AS Loc.: 1 Date: 11/13/2002
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01	0.01	0.0001	0.0051	0.0010	05:06:03	Yes
2	0.00	0.00	0.0001	0.0043	0.0009	05:06:32	Yes
Mean:	0.01	0.01	0.0001				
SD :	0.002	0.002	0.0000				
%RSD:	43.9	43.9	43.9074				

QC value within specified limits.

Element: Hg Seq. No.: 39 AS Loc.: 33 Date: 11/13/2002
Sample ID: A1636-01A 100mL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0003	0.0030	0.0005	05:07:22	Yes
2	-0.02	-0.02	-0.0003	0.0028	0.0005	05:07:52	Yes
Mean:	-0.02	-0.02	-0.0003				
SD :	0.000	0.000	0.0000				
%RSD:	0.8	0.8	0.7928				

Element: Hg Seq. No.: 40 AS Loc.: 34 Date: 11/13/2002
Sample ID: A1636-02A 100mL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.03	-0.03	-0.0006	0.0014	0.0003	05:08:42	Yes
2	-0.03	-0.03	-0.0005	0.0024	0.0004	05:09:11	Yes
Mean:	-0.03	-0.03	-0.0006				
SD :	0.003	0.003	0.0001				
%RSD:	10.5	10.5	10.4640				

Element: Hg Seq. No.: 41 AS Loc.: 35 Date: 11/13/2002
Sample ID: A1636-03A~~DUP~~ 100mL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	-0.0006	0.0009	0.0002	05:10:01	Yes
2	-0.04	-0.04	-0.0006	0.0011	0.0002	05:10:30	Yes
Mean:	-0.04	-0.04	-0.0006				
SD :	0.000	0.000	0.0000				
%RSD:	0.5	0.5	0.5353				

Element: Hg Seq. No.: 42 AS Loc.: 36 Date: 11/13/2002

001319

Sample ID: A1636-03A~~MS~~ DUP

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.03	-0.03	-0.0006	0.0015	0.0003	05:11:20	Yes
2	-0.04	-0.04	-0.0006	0.0015	0.0003	05:11:49	Yes
Mean:	-0.04	-0.04	-0.0006				
SD :	0.001	0.001	0.0000				
%RSD:	2.8	2.8	2.7501				

Element: Hg Seq. No.: 43 AS Loc.: 37 Date: 11/13/2002
Sample ID: A1636-02A~~MS~~ 99%

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.46	4.46	0.0786	0.4319	0.0794	05:12:39	Yes
2	4.43	4.43	0.0781	0.4302	0.0790	05:13:09	Yes
Mean:	4.45	4.45	0.0783				
SD :	0.018	0.018	0.0003				
%RSD:	0.4	0.4	0.4054				

Element: Hg Seq. No.: 44 AS Loc.: 38 Date: 11/13/2002
Sample ID: ~~BLK~~ A1636-04A 100mL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	-0.0007	0.0005	0.0002	05:13:59	Yes
2	-0.04	-0.04	-0.0006	0.0013	0.0003	05:14:28	Yes
Mean:	-0.04	-0.04	-0.0007				
SD :	0.002	0.002	0.0000				
%RSD:	6.6	6.6	6.6491				

Element: Hg Seq. No.: 45 AS Loc.: 39 Date: 11/13/2002
Sample ID: ~~BLK~~ A1627-02APDS 96%

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.43	1.43	0.0252	0.1379	0.0261	05:15:18	Yes
2	1.54	1.54	0.0270	0.1486	0.0279	05:15:48	Yes
Mean:	1.48	1.48	0.0261				
SD :	0.073	0.073	0.0013				
%RSD:	4.9	4.9	4.9005				

Element: Hg Seq. No.: 46 AS Loc.: 40 Date: 11/13/2002
Sample ID: ~~BLK~~ A1627-04A SPIKED 90%

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.24	0.24	0.0042	0.0272	0.0051	05:16:38	Yes
2	0.24	0.24	0.0042	0.0271	0.0051	05:17:07	Yes
Mean:	0.24	0.24	0.0042				
SD :	0.001	0.001	0.0000				
%RSD:	0.2	0.2	0.2182				

Element: Hg Seq. No.: 47 AS Loc.: 7 Date: 11/13/2002
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.84	4.84	0.0852	0.4684	0.0861	05:17:59	Yes
2	4.84	4.84	0.0853	0.4670	0.0862	05:18:28	Yes
Mean:	4.84	4.84	0.0853				

001320

SD :	0.003	0.003	0.0000
%RSD:			

QC value within specified limits.

Element: Hg Seq. No.: 48 AS Loc.: 1 Date: 11/13/2002
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01	0.01	0.0001	0.0056	0.0010	05:19:20	Yes
2	0.00	0.00	0.0001	0.0044	0.0009	05:19:49	Yes
Mean:	0.00	0.00	0.0001				
SD :	0.003	0.003	0.0000				
%RSD:	54.0	54.0	53.9741				

QC value within specified limits.

001321

Element: Hg Seq. No.: 49 AS Loc.: 7 Date: 11/13/2002
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.06	5.06	0.0891	0.4841	0.0900	05:34:07	Yes
2	5.07	5.07	0.0893	0.4841	0.0902	05:34:36	Yes
Mean:	5.06	5.06	0.0892				
SD :	0.007	0.007	0.0001				
%RSD:	0.1	0.1	0.1443				

QC value within specified limits.

Element: Hg Seq. No.: 50 AS Loc.: 1 Date: 11/13/2002
Sample ID: ICB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	-0.0001	0.0039	0.0008	05:35:28	Yes
2	-0.01	-0.01	-0.0001	0.0037	0.0008	05:35:57	Yes
Mean:	0.00	0.00	-0.0001				
SD :	0.001	0.001	0.0000				
%RSD:	11.7	11.7	11.7329				

QC value within specified limits.

Element: Hg Seq. No.: 51 AS Loc.: 9 Date: 11/13/2002
Sample ID: MB-4287 130mL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0003	0.0011	0.0006	05:36:47	Yes
2	-0.01	-0.01	-0.0002	0.0029	0.0007	05:37:16	Yes
Mean:	-0.01	-0.01	-0.0003				
SD :	0.005	0.005	0.0001				
%RSD:	34.7	34.7	34.7380				

Element: Hg Seq. No.: 52 AS Loc.: 10 Date: 11/13/2002
Sample ID: A1627-09A 130mL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0003	0.0025	0.0006	05:38:06	Yes
2	-0.01	-0.01	-0.0002	0.0036	0.0007	05:38:35	Yes
Mean:	-0.01	-0.01	-0.0002				
SD :	0.004	0.004	0.0001				
%RSD:	25.4	25.4	25.4067				

Element: Hg Seq. No.: 53 AS Loc.: 11 Date: 11/13/2002
Sample ID: A1627-07B 153mL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0004	0.0028	0.0005	05:39:25	Yes
2	-0.03	-0.03	-0.0005	0.0025	0.0004	05:39:54	Yes
Mean:	-0.03	-0.03	-0.0004				
SD :	0.002	0.002	0.0000				
%RSD:	7.2	7.2	7.2169				

Element: Hg Seq. No.: 54 AS Loc.: 12 Date: 11/13/2002
Sample ID: A1627-13B 140mL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	-0.0006	0.0017	0.0002	05:40:44	Yes

001322

2	-0.04	-0.04	-0.0007	0.0012	0.0002	05:41:14 Yes
Mean:	-0.04	-0.04	-0.0007			
SD :	0.001	0.001	0.0000			
%RSD:	2.4	2.4	2.4151			

Element: Hg Seq. No.: 55 AS Loc.: 13 Date: 11/13/2002
Sample ID: A1627-25B 140mL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	-0.0007	0.0006	0.0001	05:42:04	Yes
2	-0.04	-0.04	-0.0007	0.0007	0.0002	05:42:33	Yes
Mean:	-0.04	-0.04	-0.0007				
SD :	0.001	0.001	0.0000				
%RSD:	3.3	3.3	3.2914				

Element: Hg Seq. No.: 56 AS Loc.: 14 Date: 11/13/2002
Sample ID: A1627-51B 138mL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	-0.0007	0.0000	0.0001	05:43:23	Yes
2	-0.04	-0.04	-0.0007	0.0012	0.0002	05:43:52	Yes
Mean:	-0.04	-0.04	-0.0007				
SD :	0.004	0.004	0.0001				
%RSD:	9.2	9.2	9.2301				

Element: Hg Seq. No.: 57 AS Loc.: 15 Date: 11/13/2002
Sample ID: A1627-36A 140mL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	-0.0006	0.0013	0.0003	05:44:42	Yes
2	-0.03	-0.03	-0.0005	0.0028	0.0003	05:45:11	Yes
Mean:	-0.03	-0.03	-0.0006				
SD :	0.003	0.003	0.0001				
%RSD:	9.2	9.2	9.2452				

Element: Hg Seq. No.: 58 AS Loc.: 16 Date: 11/13/2002
Sample ID: A1627-37A 140mL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.03	-0.03	-0.0006	0.0018	0.0003	05:46:01	Yes
2	-0.04	-0.04	-0.0006	0.0015	0.0002	05:46:30	Yes
Mean:	-0.04	-0.04	-0.0006				
SD :	0.001	0.001	0.0000				
%RSD:	2.8	2.8	2.7947				

Element: Hg Seq. No.: 59 AS Loc.: 7 Date: 11/13/2002
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.08	5.08	0.0896	0.4803	0.0904	05:47:21	Yes
2	5.02	5.02	0.0884	0.4780	0.0893	05:47:51	Yes
Mean:	5.05	5.05	0.0890				
SD :	0.046	0.046	0.0008				
%RSD:	0.9	0.9	0.9103				

QC value within specified limits.

Element: Hg Seq. No.: 60 AS Loc.: 1 Date: 11/13/2002
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0000	0.0053	0.0009	05:48:43	Yes
2	0.00	0.00	0.0000	0.0047	0.0008	05:49:12	Yes
Mean:	0.00	0.00	0.0000				
SD :	0.002	0.002	0.0000				
%RSD:	616.4	616.4	616.4215				

QC value within specified limits.

HUMLE

Method Name: HG_COMM
Method Description: Hgcomm
Element: Hg

1656-15B 1665-13
1658-01 1666-12
1627-09+07+17+18 Good fit

Date: 11/19/2002
Technique:FI-MHS
Calibration Type:
Hg, Zero Intercept: Linear
Wavelength: 253.7 nm
Sample Info Name: LAL1115.SIF Results Data Set Name: H111901

Element: Hg Seq. No.: 6 AS Loc.: 1 Date: 11/19/2002
Sample ID: S0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0010	0.0040	0.0010	12:23:06	Yes
2			0.0010	0.0050	0.0010	12:23:35	Yes
Mean:			0.0010				
SD :			0.0000				
%RSD:			2.8458				

Auto-zero performed.

Element: Hg Seq. No.: 7 AS Loc.: 2 Date: 11/19/2002
Sample ID: S0.2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0035	0.0240	0.0045	12:24:26	Yes
2			0.0034	0.0227	0.0044	12:24:56	Yes
Mean:			0.0034				
SD :			0.0001				
%RSD:			2.1962				

[Hg] Standard number 1 applied. [0.20]
Correlation Coefficient: 1.00000 Slope: 0.01708

Element: Hg Seq. No.: 8 AS Loc.: 3 Date: 11/19/2002
Sample ID: S1.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0166	0.0957	0.0176	12:25:47	Yes
2			0.0165	0.0942	0.0175	12:26:16	Yes
Mean:			0.0165				
SD :			0.0000				
%RSD:			0.2032				

[Hg] Standard number 2 applied. [1.00]
Correlation Coefficient: 0.99993 Slope: 0.01655

Element: Hg Seq. No.: 9 AS Loc.: 4 Date: 11/19/2002
Sample ID: S2.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0333	0.1838	0.0343	12:27:07	Yes
2			0.0335	0.1845	0.0345	12:27:36	Yes
Mean:			0.0334				
SD :			0.0002				
%RSD:			0.5720				

[Hg] Standard number 3 applied. [2.00]
Correlation Coefficient: 0.99997 Slope: 0.01667

Element: Hg Seq. No.: 10 AS Loc.: 5 Date: 11/19/2002
Sample ID: S5.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0842	0.4556	0.0852	12:28:27	Yes
2			0.0845	0.4553	0.0855	12:28:56	Yes
Mean:			0.0844				
SD :			0.0002				
%RSD:			0.2806				

[Hg] Standard number 4 applied. [5.00]
Correlation Coefficient: 0.99997 Slope: 0.01684

Element: Hg Seq. No.: 11 AS Loc.: 6 Date: 11/19/2002
Sample ID: S10.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.1625	0.8773	0.1635	12:29:47	Yes
2			0.1622	0.8781	0.1632	12:30:16	Yes
Mean:			0.1624				
SD :			0.0002				
%RSD:			0.1479				

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99975 Slope: 0.01638

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
S0	0.0010	--	----	----	----
S0.2	0.0034	0.20	0.21	0.000	2.2
S1.0	0.0165	1.00	1.01	0.000	0.2
S2.0	0.0334	2.00	2.04	0.000	0.6
S5.0	0.0844	5.00	5.15	0.000	0.3
S10.0	0.1624	10.00	9.91	0.000	0.1
Correlation Coefficient: 0.99975		Slope:	0.01638	----	

Element: Hg Seq. No.: 12 AS Loc.: 7 Date: 11/19/2002
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.82	4.82	0.0789	0.4194	0.0799	12:31:06	Yes
2	4.80	4.80	0.0787	0.4198	0.0797	12:31:36	Yes
Mean:	4.81	4.81	0.0788				
SD :	0.012	0.012	0.0002				
%RSD:	0.2	0.2	0.2392				

QC value within specified limits.

Element: Hg Seq. No.: 13 AS Loc.: 1 Date: 11/19/2002
Sample ID: ICB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0000	0.0048	0.0010	12:32:27	Yes
2	0.00	0.00	0.0000	0.0042	0.0010	12:32:56	Yes
Mean:	0.00	0.00	0.0000				
SD :	0.002	0.002	0.0000				
%RSD:	238.9	238.9	238.8764				

QC value within specified limits.

Element: Hg Seq. No.: 14 AS Loc.: 9 Date: 11/19/2002
Sample ID: MB-4386

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.07	0.07	0.0011	0.0085	0.0021	12:33:47	Yes
2	0.08	0.08	0.0013	0.0102	0.0023	12:34:16	Yes
Mean:	0.07	0.07	0.0012				
SD :	0.008	0.008	0.0001				
%RSD:	10.6	10.6	10.6212				

Element: Hg Seq. No.: 15 AS Loc.: 10 Date: 11/19/2002
Sample ID: LCS-4386 93%

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.46	4.46	0.0731	0.3959	0.0741	12:35:06	Yes
2	4.42	4.42	0.0725	0.3970	0.0735	12:35:35	Yes
Mean:	4.44	4.44	0.0728				
SD :	0.028	0.028	0.0005				
%RSD:	0.6	0.6	0.6203				

Element: Hg Seq. No.: 16 AS Loc.: 11 Date: 11/19/2002
Sample ID: A1656-15B 146mL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.04	0.04	0.0007	0.0085	0.0017	12:36:25	Yes
2	0.04	0.04	0.0007	0.0093	0.0017	12:36:54	Yes
Mean:	0.04	0.04	0.0007				
SD :	0.001	0.001	0.0000				
%RSD:	2.4	2.4	2.3730				

Element: Hg Seq. No.: 17 AS Loc.: 12 Date: 11/19/2002
Sample ID: A1656-15BDUP 138mL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.06	0.06	0.0010	0.0094	0.0020	12:37:44	Yes
2	0.05	0.05	0.0009	0.0092	0.0019	12:38:13	Yes
Mean:	0.06	0.06	0.0009				
SD :	0.003	0.003	0.0000				
%RSD:	5.3	5.3	5.2932				

Element: Hg Seq. No.: 18 AS Loc.: 13 Date: 11/19/2002
Sample ID: A1656-15BMS 135mL 101%

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.43	3.43	0.0562	0.3022	0.0572	12:39:03	Yes
2	3.41	3.41	0.0558	0.3035	0.0568	12:39:32	Yes
Mean:	3.42	3.42	0.0560				
SD :	0.015	0.015	0.0002				
%RSD:	0.4	0.4	0.4443				

Element: Hg Seq. No.: 19 AS Loc.: 14 Date: 11/19/2002
Sample ID: MB-4287

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.06	0.06	0.0010	0.0095	0.0020	12:40:22	Yes
2	0.06	0.06	0.0010	0.0110	0.0020	12:40:52	Yes
Mean:	0.06	0.06	0.0010				

001327

SD :	0.000	0.000	0.0000
%RSD:	0.6	0.6	0.6008

Element: Hg Seq. No.: 20 AS Loc.: 15 Date: 11/19/2002
Sample ID: A1627-09A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.13	0.13	0.0021	0.0153	0.0031	12:41:42	Yes
2	0.13	0.13	0.0021	0.0165	0.0031	12:42:11	Yes
Mean:	0.13	0.13	0.0021				
SD :	0.001	0.001	0.0000				
%RSD:	0.6	0.6	0.6250				

Element: Hg Seq. No.: 21 AS Loc.: 16 Date: 11/19/2002
Sample ID: MB-4352

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02	0.02	0.0004	0.0062	0.0014	12:43:01	Yes
2	-0.05	-0.05	-0.0009	0.0007	0.0001	12:43:30	Yes
Mean:	-0.02	-0.02	-0.0003				
SD :	0.055	0.055	0.0009				
%RSD:	345.9	345.9	345.9395				

Element: Hg Seq. No.: 22 AS Loc.: 7 Date: 11/19/2002
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.75	4.75	0.0778	0.4160	0.0788	12:44:21	Yes
2	4.71	4.71	0.0772	0.4126	0.0782	12:44:51	Yes
Mean:	4.73	4.73	0.0775				
SD :	0.026	0.026	0.0004				
%RSD:	0.6	0.6	0.5566				

QC value within specified limits.

Element: Hg Seq. No.: 23 AS Loc.: 1 Date: 11/19/2002
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0001	0.0048	0.0009	12:45:43	Yes
2	-0.01	-0.01	-0.0002	0.0036	0.0008	12:46:12	Yes
Mean:	-0.01	-0.01	-0.0002				
SD :	0.002	0.002	0.0000				
%RSD:	21.0	21.0	20.9641				

QC value within specified limits.

Element: Hg Seq. No.: 24 AS Loc.: 17 Date: 11/19/2002
Sample ID: LCS-4352 101%

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.59	4.59	0.0751	0.3981	0.0761	12:47:02	Yes
2	4.57	4.57	0.0748	0.3975	0.0758	12:47:31	Yes
Mean:	4.58	4.58	0.0750				
SD :	0.013	0.013	0.0002				
%RSD:	0.3	0.3	0.2751				

Element: Hg Seq. No.: 25 AS Loc.: 18 Date: 11/19/2002

001328

Sample ID: SRM-4352

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.34	5.34	0.0874	0.4655	0.0884	12:48:21	Yes
2	5.32	5.32	0.0872	0.4673	0.0882	12:48:50	Yes
Mean:	5.33	5.33	0.0873				
SD :	0.009	0.009	0.0001				
%RSD:	0.2	0.2	0.1595				

Element: Hg Seq. No.: 26 AS Loc.: 19 Date: 11/19/2002
Sample ID: A1658-01A 0.82g

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.10	0.10	0.0016	0.0151	0.0026	12:49:40	Yes
2	0.09	0.09	0.0014	0.0132	0.0024	12:50:09	Yes
Mean:	0.09	0.09	0.0015				
SD :	0.008	0.008	0.0001				
%RSD:	8.7	8.7	8.7424				

Element: Hg Seq. No.: 27 AS Loc.: 20 Date: 11/19/2002
Sample ID: A1627-09A 0.74g

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.64	0.64	0.0104	0.0596	0.0114	12:50:59	Yes
2	0.63	0.63	0.0103	0.0589	0.0113	12:51:28	Yes
Mean:	0.63	0.63	0.0104				
SD :	0.004	0.004	0.0001				
%RSD:	0.6	0.6	0.5656				

Element: Hg Seq. No.: 28 AS Loc.: 21 Date: 11/19/2002
Sample ID: A1665-01A 0.60g

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.17	0.17	0.0028	0.0193	0.0038	12:52:19	Yes
2	0.17	0.17	0.0028	0.0190	0.0038	12:52:48	Yes
Mean:	0.17	0.17	0.0028				
SD :	0.000	0.000	0.0000				
%RSD:							

Element: Hg Seq. No.: 29 AS Loc.: 22 Date: 11/19/2002
Sample ID: A1665-02A 0.66g

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.34	0.34	0.0056	0.0335	0.0066	12:53:38	Yes
2	0.34	0.34	0.0055	0.0336	0.0065	12:54:07	Yes
Mean:	0.34	0.34	0.0055				
SD :	0.001	0.001	0.0000				
%RSD:	0.2	0.2	0.1616				

Element: Hg Seq. No.: 30 AS Loc.: 23 Date: 11/19/2002
Sample ID: A1665-03A 0.69g

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.51	0.51	0.0083	0.0477	0.0093	12:54:57	Yes
2	0.50	0.50	0.0082	0.0470	0.0092	12:55:26	Yes
Mean:	0.50	0.50	0.0082				

001329

SD :	0.006	0.006	0.0001
%RSD:	1.2	1.2	1.2353

Element: Hg Seq. No.: 31 AS Loc.: 24 Date: 11/19/2002
Sample ID: A1666-01A 0.65g

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.26	0.28	0.0045	0.0283	0.0055	12:56:16	Yes
2	0.27	0.27	0.0045	0.0277	0.0055	12:56:45	Yes
Mean:	0.27	0.27	0.0045				
SD :	0.002	0.002	0.0000				
%RSD:	0.7	0.7	0.7118				

Element: Hg Seq. No.: 32 AS Loc.: 7 Date: 11/19/2002
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.85	4.85	0.0794	0.4201	0.0804	12:57:36	Yes
2	4.89	4.89	0.0801	0.4232	0.0811	12:58:05	Yes
Mean:	4.87	4.87	0.0798				
SD :	0.027	0.027	0.0004				
%RSD:	0.6	0.6	0.5555				

QC value within specified limits.

Element: Hg Seq. No.: 33 AS Loc.: 1 Date: 11/19/2002
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0004	0.0004	0.0006	12:58:58	Yes
2	-0.01	-0.01	-0.0002	0.0028	0.0008	12:59:27	Yes
Mean:	-0.02	-0.02	-0.0003				
SD :	0.007	0.007	0.0001				
%RSD:	39.2	39.2	39.2096				

QC value within specified limits.

Element: Hg Seq. No.: 34 AS Loc.: 25 Date: 11/19/2002
Sample ID: A1666-01ADUP 0.65g

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.37	0.37	0.0061	0.0359	0.0071	01:00:19	Yes
2	0.38	0.38	0.0062	0.0369	0.0072	01:00:48	Yes
Mean:	0.37	0.37	0.0061				
SD :	0.003	0.003	0.0001				
%RSD:	0.9	0.9	0.8983				

Element: Hg Seq. No.: 35 AS Loc.: 26 Date: 11/19/2002
Sample ID: A1666-01AMS 0.65g 102%

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.40	5.40	0.0884	0.4676	0.0894	01:01:38	Yes
2	5.39	5.39	0.0883	0.4675	0.0893	01:02:08	Yes
Mean:	5.39	5.39	0.0883				
SD :	0.004	0.004	0.0001				
%RSD:							

Element: Hg Seq. No.: 36 AS Loc.: 27 Date: 11/19/2002

001330

MITKEM CORPORATION: Aqueous Metals Preparation Logbook

Date	Sample ID		Client ID	Sample Vol (ml)	pH	Sample Color Before	Clarity Before	Conc. HNO_3 (ml)	Conc. HCl (ml)	1:1 HCl (ml)	Sample Color After	Sample Clarity After	Final Volume (ml)	Comments	Analys
11/13/02	A1611-	11B		50	<2	-	-	1.0	2.5	-	-	-	50		JPL
	A1611-	20B													
	A1627-	07B													
		13B													
		25B			↓										
	A1627-	51B			<2										
	1113 PB602		MS-411	↓	-										
	1113 LCSW2		LCS-411	50	-										
	MT 1112 B1		MS-411	5.0	<2										
	TLP A1636-	01A													
		04A													
		15A													
		02A	Dup												
		03A	MS												
	TLP A1636-	04B													
	TLP A1640-	01A		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		↓
11/13/02	TLP A1649-	02A		5.0	<2	-	-	1.0	2.5	-	-	-	50		JPL

HCl Lot# 4102050
HNO3 Lot# 1102049

Method: 3005A

Digestion Temp: 95 0C

LCSS/Spike ID: IG210180 450ml
IG20222B 45ml
IG20222C 45ml

SOP#: J03

Logbook ID 100.0125-2/02

1333

001331

Prep Logbooks
1. ICP
2. Mercury

MITKEM CORPORATION: Aqueous Metals Preparation Logbook

Date	Sample ID		Client ID	Sample Vol (ml)	pH	Sample Color Before	Clarity Before	Conc. HNO_3 (ml)	Conc. HCl (ml)	1:1 HCl (ml)	Sample Color After	Sample Clarity After	Final Volume (ml)	Comments	Analys
11/13/02	TLP A1640-	05A		50	<2	-	-	1.0	2.5	-	-	-	50		JPL
	TLP A1640-	04A		50	<2										
	TLP A1640-	05B		5.0	<2										
	A1627-	36A		50	<2										
	A1627-	37A		50	<2										
	A1642	01C		50	<2										
↓	A1642	02C		50	<2	↓	↓	↓	↓	↓	↓	↓	↓		↓
11/13/02	A1642	03C		50	<2	-	-	1.0	2.5	-	-	-	50		JPL

DJK 11/13/02

HCl Lot# 4102050
HNO3 Lot# 1102049

Method: 3005A

Digestion Temp: 95 0C

LCSS/Spike ID: IG210180 450ml
IG20222B 45ml
IG20222C 45ml

SOP#: J03

Logbook ID 100.0125-2/02

1334

A1627

MITKEM CORPORATION: Aqueous Metals Preparation Logbook

Date	Sample ID		Client ID	Sample Vol (ml)	pH	Sample Color Before	Clarity Before	Conc. HNO_3 (ml)	Conc. HCl (ml)	1:1 HCl (ml)	Sample Color After	Sample Clarity After	Final Volume (ml)	Comments	Analys
11/13/02	1113 PB60		MS-411	50	-	-	-	1.0	2.5	-	-	-	50		JPL
	1113 LCSW		LCS-411		-										
	A1611-	11B			<2										
		20B													
		07B													
		13B													
		25B	Dup												
		05B	MS												
		51B													
		36A													
		37A													
		01C													
		02C													
		03C													
		04B													
↓		01A		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		↓
11/13/02	A1611-	11B		50	<2	-	-	1.0	2.5	-	-	-	50		JPL

HCl Lot# 4102050
HNO3 Lot# 1102049

Method: 3005A

Digestion Temp: 95 0C

LCSS/Spike ID: IG210180 450ml
IG20222B 45ml
IG20222C 45ml

SOP#: J03

Logbook ID 100.0125-2/02

1332

MITKEM CORPORATION: Soil/Solid Metals Prep Logbook

Date	Sample ID	Client ID	Sample Wt. (g)	Sample Color Before	Texture	1:1 HNO_3 ml	Conc. HNO_3 ml	Conc. HCl ml	30% H_2O_2 ml	Sample Color After	Sample Clarity After	Final Volume ml	Comments	Analyst
11/9/02	A1637-	396	1.14	-	-	5	2.5	5	5	-	-	50		TR
		51C	1.06	↓	↓	↓	↓	↓	↓	↓	↓	↓		↓
		46A	1.17											
	A1637 Attempt #2 dup	47A	1.13	-	-	5	2.5	5	5	-	-	50		TR
11/9/02														TR

HCl Lot# 41102650
HNO3 Lot# 11102040
H2O2 Lot# 011435

Method: 3050B
SOP#: I04

Digestion Temp: 95 oC

LCSS/Spike ID: I021102D 450 µl
I020222B 450 µl
I021102C 450 µl

001337

Logbook ID 100.0124-1/02

Reviewed By: _____

Logbook page: 000093

MITKEM CORPORATION: Aqueous Metals Preparation Logbook

1637-SOP #47

Date	Sample ID	Client ID	Sample Vol (ml)	pH	Sample Color Before	Clarity Before	Conc. HNO_3 (ml)	Conc. HCl (ml)	1:1 HCl (ml)	Sample Color After	Sample Clarity After	Final Volume (ml)	Comments	Analyst
11/12/02	A1637-14 C		50	<2	—	—	1.0	2.5	—	—	—	50ml		
	-16 C			<2										
	-18 C			<2										
	-19 C			<2										
	A1650-12 D			<2										
	-13 D			<2										
	-14 D			<2										
	-16 D			<2										
	-18 D			<2										
	-19 D			<2										
	1112 prep 2	MB-4891		—										
	1112 LCS 2	LCS-4891	↓	—										
	[illegible]		51	<2										
	[illegible]		51	<2										
	[illegible]		50	<2										
	[illegible]													
11/9/02	A1637-47 A Dup		50	<2	—	—	1.0	2.5	—	—	—	50ml		

HCl Lot# 41102650
HNO3 Lot# 11102040

Method: 3005A
SOP#: I03

Digestion Temp: 95 oC

LCSS/Spike ID: 1) I021102D 450 µl
2) I020222B 45 µl
3) I021102C 45 µl

001335

Logbook ID 100.0125-2/02

Reviewed By: _____

Logbook page: 000038

MITKEM CORPORATION: Mercury Digestion Logbook

Date	Bottle No.	Sample ID	Client ID	Sample Vol (ml)/ Wt (g)	Reagents Added: Conc. H_2SO_4 (ml)	Conc. HNO_3 (ml)	5% $KMnO_4$ (ml)	5% $K_2S_2O_8$ (ml)	Aqua-regia (ml)	Final Volume (ml)	Comments	Analyst
11/14/02	5	SS		100	5.0	2.5	15.0	8.0	—	100ml		
	4	SS 2		0.04/100								
	5E	SD 1.0		0.2/100								
	6D	SD 2.0		0.4/100								
	60M	SD 5.0		1.0/100								
	7DM	SD 10.0		2.0/100								
	8	1118 VBLK		1.0/100								
	BDF	1118 PBW 1		100						↓100		
	X12	1118 LCSW 1		1.0/100						140		
	12K	A1656-015 B		100						138		
	13B	A1656-015 B Dup		↓						135		
	14K	A1656-015 B MS		↓						100		
	15PC	Repeat A1111-121	MB-4287	10/100						↓		
11/14/02	15X	Repeat A1637-09 A		10/100	5.0	2.5	15.0	8.0	—	100		

Temp: 95 °C

Waters
In: 1010
Out: 1210
Matrix: Aqueous

Soils
In: _____
Out: _____
Matrix: Soil/Solid

LCSS: I1102114B
Clear: I1021114A
Spike: I1021114B
OCV: I1021114B

SOP# I-2

H_2SO_4 Lot # 021102
HNO_3 Lot # 11102040
HCl Lot # 41102650(HCl)
KMnO4 Lot # A32863
K2S2O8 Lot# 021102
Method # 7470A

001338

Logbook page: 000034

MITKEM CORPORATION: Soil/Solid Metals Prep Logbook

A1637

Date	Sample ID	Client ID	Sample Wt. (g)	Sample Color Before	Texture	1:1 HNO_3 ml	Conc. HNO_3 ml	Conc. HCl ml	30% H_2O_2 ml	Sample Color After	Sample Clarity After	Final Volume ml	Comments	Analyst
11/9/02	1113 PBS	MB-4512	-	-	-	5	2.5	5	5	-	-	50		TR
	1113 LCSS	LCS-4512	0.50											
	A1648- 01A		1.05											
	A1646- 01B		1.09											
	A1646- 02A		1.11											
	A1646- 03A		1.12											
	A1637- 01C		1.13											
	03D		1.13										NOT ANALYZED	
	03C		1.08										NOT ANALYZED	
	04A		1.24											
	04A	Dup	1.24											
	04A	MS	1.24											
	05B		1.04											
	A1637 06A		1.05										NOT ANALYZED	
	A1637- 02C		1.07											
	A1637- 05C		1.12	↓	↓	↓	↓	↓	↓	↓	↓	↓		↓
11/9/02	A1637- 29G		1.02	-	-	5	2.5	5	5	-	-	50ml		TR

HCl Lot# 41102650
HNO3 Lot# 11102040
H2O2 Lot# 011435

Method: 3050B
SOP#: I04

Digestion Temp: 95 oC

LCSS/Spike ID: I021102D 450µl
I020222B 45µl
I021102C 45µl

001336

Logbook ID 100.0124-1/02

Reviewed By: _____

Logbook page: 000092

001341

MITKEM CORPORATION: Mercury Digestion Logbook

Date	Bottle No.	Sample ID	Client ID	Sample Vol (ml)/ Wt (g)	Conc. H_2SO_4 (ml)	Conc. HNO_3 (ml)	5% $KMnO_4$ (ml)	5% K_2SO_4 (ml)	Aqua-regia (ml)	Final Volume (ml)	Comments	Analyst
					Reagents Added							
11/13/12	821 ~~1113 PBS~~	1113 PBS	MB-4314	-	-	-	15	-	5	100		JTR
	921 ~~1113 LCSS~~	1113 LCSS	LCS-4314	0.60								
	1121 ~~A1648~~	A1648 01A		0.60								
	1221	A1646 01A		0.64								
	1621	A1646 02A		0.62								
	1821	A1646 03A		0.61								
	1921	A1622 01A		0.63								
	2021	02A		0.68							Wt nominal	
	2121	03A		0.62							Wt nominal	
	2221	04A		0.64								
	2321	04A Dup		0.71								
	2421	04A MS		0.69								
	121	05A		0.69								
	221	A1622 06A		0.72							Wt nominal	
	312	A1627 02C ~~02B~~		0.69								
11/13/12	321	A1627 03C		0.67	-	-	15	-	5	100		JTR

Waters In: ____ Out: ____ Matrix: Aqueous

Soils In: 12:35 Out: 12:37 In: 12:45 Out: 1:15 Matrix: Soil/Solid

Temp: 95 °C

LCSS: I5Z1106 5mg/L
Spike: I5Z1006 5mg/L
SOP# I:12

H_2SO_4 Lot # ____
HNO_3 Lot # ____
HCl Lot # ____
KMnO4 Lot # ____
K2S2O8 Lot# ____ } Hg24
Method # 7471A

000026

001339

A1627

MITKEM CORPORATION: Mercury Digestion Logbook

Date	Bottle No.	Sample ID	Client ID	Sample Vol (ml)/ Wt (g)	Conc. H_2SO_4 (ml)	Conc. HNO_3 (ml)	5% $KMnO_4$ (ml)	5% K_2SO_4 (ml)	Aqua-regia (ml)	Final Volume (ml)	Comments	Analyst
					Reagents Added							
11/13/12	67PE	S0		100	5.0	2.5	15.0	8.0	-	100		JTR
	19Z	S0.2 µg/l		0.04/100							I5Z1016A	
	86PE	S1.0		0.2/100								
	74XY	S2.0		0.4/100								
	24LW	S5.0		1.0/100								
	21K	S10.0		2.0/100								
	21	ICV		1.0/100							I5J2101G6	
	73XY	1113 PBW	MB-4313	100								
	20BW	1113 LCSW	LCS-4313	1.0/100								
	87XY	TCLP MT1113-01	MB-4314	10								
	22LW	TCLP A1636- 01A										
	107J	02A										
	20LW	03A										
	23B	03A Dup										
	78XY	03A MS										
11/13/12	85PE	TCLP A1636- 04A		10	5.0	2.5	15.0	8.0	-	100		JTR

Waters In: 10:36 Out: 12:36 Matrix: Aqueous

Soils In: ____ Out: ____ In: ____ Out: ____ Matrix: Soil/Solid

Temp: 95 °C

LCSS: I5Z1016B 5mg/L
Spike: I5Z1016B 5mg/L
SOP# I:12

H_2SO_4 Lot # 3101070
HNO_3 Lot # 1102040
HCl Lot # 4102050
KMnO4 Lot # 020863
K2S2O8 Lot# 020534
Method # 7470A

Logbook ID: 100.0128-3/02 Reviewed by: Logbook Page 000024

001342

MITKEM CORPORATION: Mercury Digestion Logbook

Date	Bottle No.	Sample ID	Client ID	Sample Vol (ml)/ Wt (g)	Conc. H_2SO_4 (ml)	Conc. HNO_3 (ml)	5% $KMnO_4$ (ml)	5% K_2SO_4 (ml)	Aqua-regia (ml)	Final Volume (ml)	Comments	Analyst
					Reagents Added							
11/13/12	421	A1627 29C		0.67	-	-	15	-	5	100		JTR
	521	30C		0.68								
	621	31C		0.60								
	18XY	46A		0.68								
11/13/12	3K	A1627 47A		0.63	-	-	15	-	-	100	Wt nominal	JTR

JTR 11/13/12

Waters In: ____ Out: ____ Matrix: Aqueous

Soils In: 12:35 Out: 12:37 In: 12:45 Out: 1:15 Matrix: Soil/Solid

Temp: 95 °C

LCSS: Hg26
Spike: ____
SOP# I:12

H_2SO_4 Lot # ____
HNO_3 Lot # ____
HCl Lot # ____
KMnO4 Lot # ____
K2S2O8 Lot# ____ } Hg24
Method # 7471A

000027

001340

MITKEM CORPORATION: Mercury Digestion Logbook

Date	Bottle No.	Sample ID	Client ID	Sample Vol (ml)/ Wt (g)	Conc. H_2SO_4 (ml)	Conc. HNO_3 (ml)	5% $KMnO_4$ (ml)	5% K_2SO_4 (ml)	Aqua-regia (ml)	Final Volume (ml)	Comments	Analyst
					Reagents Added							
11/13/12	6X	A1627- 07B		100	5.0	2.5	15.0	8.0	-	158		JTR
	1K	12B								146		
	1PE	25B								140		
	2	A1627- 51B		100						138		
	1	A1627- 36B		100						140		
11/13/12	22BW	A1627 37B		100	5.0	2.5	15.0	8.0	-	140		JTR

JTR 11/13/12

Waters In: 10:36 Out: 12:36 Matrix: Aqueous

Soils In: ____ Out: ____ In: ____ Out: ____ Matrix: Soil/Solid

Temp: 95 °C

LCSS: Hg24
Spike: ____
SOP# I:12

H_2SO_4 Lot # 3101070
HNO_3 Lot # 1102040
HCl Lot # 4102050
KMnO4 Lot # 020863
K2S2O8 Lot# 020064
Method # 7470A

Logbook ID: 100.0128-3/02 Reviewed by: Logbook Page 000025

1627-#9 Total Hg

MITKEM CORPORATION: Mercury Digestion Logbook

Date	Bottle No.	Sample ID	Client ID	Sample Vol (ml)/ Wt (g)	Reagents Added: Conc. H_2SO_4 (ml)	Conc. HNO_3 (ml)	5% $KMnO_4$ (ml)	5% $K_2S_2O_8$ (ml)	Aqua-regia (ml)	Final Volume (ml)	Comments	Analyst
11/15/02	13	4353/4354 pbs		—	—	—	15.0	—	5.0	100		XXX
	1m	4353/4354 LCSS	Comm.	0.50								
	3BW	A1658-01 A		0.62								
	3N	A1627-03A		0.74								
	3WB	A1665-01 A		0.62								
	3A	-02 A		0.66								
	3P	-03 A		0.68								
	4B3	A1666-01 A		0.65								
	4WP	-01 AD		0.65								
	4XY	-01 A MS		0.65								
	0	-02 A		0.65								
	6XY	1118 LCSS 2	Comm.	0.62								
	7	A1652-01 A		0.61								
	7Z1	-01 AD		0.61								
	13D	-01 A MS		0.61								
11/16/02	13WD	-02 A		0.67	—	—	15.0	—	5.0	100 mL		

Waters In: N/A Out: Matrix: Aqueous

Solids In: 1325 Out: 1327 In: 1240 Out: 110 Matrix: Soil/Solid

LCSS
CCV
Spike

SOP# I12

Temp: 95 °C
H_2SO_4 Lot #
HNO_3 Lot #
HCl Lot #
KMnO4 Lot #
K2S2O8 Lot# N/A
Method # 7471A

Percent Moisture and Percent Solids Report

Mitkem Sample ID	Client Sample ID	Analyzed	Percent Moisture	Percent Solids	Validated
A1627-01A	04 NOV 02 AOC1+12-T	11/14/2002	19	81	Yes
A1627-02C	04 NOV 02 AOC1+12-T	11/14/2002	13	87	Yes
A1627-03C	04 NOV 02 AOC1+12T	11/14/2002	9	91	Yes
A1627-04A	04 NOV 02 AOC1+12-S	11/14/2002	20	80	Yes
A1627-05A	04 NOV 02 AOC1+12-S	11/14/2002	17	83	Yes
A1627-08A	04 NOV 02 AOC1+12-S	11/14/2002	39	61	Yes
A1627-09A	04 NOV 02 AOC1+12-S	11/14/2002	11	89	Yes
A1627-10A	04 NOV 02 AOC1+12-S	11/14/2002	23	77	Yes
A1627-11A	04 NOV 02 AOC1+12-S	11/14/2002	19	81	Yes
A1627-12A	04 NOV 02 AOC1+12-S	11/14/2002	12	88	Yes
A1627-14A	05 NOV 02-AOC13-SS-	11/14/2002	11	89	Yes
A1627-15A	05 NOV 02-AOC13-SS-	11/14/2002	20	80	Yes
A1627-16A	05 NOV 02-AOC13-SS-	11/14/2002	11	89	Yes
A1627-17A	05 NOV 02-AOC13-SS-	11/14/2002	9	91	Yes
A1627-18A	05 NOV 02-AOC13-SS-	11/14/2002	16	84	Yes
A1627-19A	05 NOV 02-AOC13-SS-	11/14/2002	13	87	Yes
A1627-20A	05 NOV 02-AOC13-SS-	11/14/2002	16	84	Yes
A1627-21A	05 NOV 02-AOC13-SS-	11/14/2002	7	93	Yes
A1627-22A	05 NOV 02-AOC13-SS-	11/14/2002	20	80	Yes
A1627-23A	05 NOV 02-AOC13-SS-	11/14/2002	6	94	Yes
A1627-24A	05 NOV 02-AOC13-SS-	11/14/2002	12	88	Yes
A1627-26A	05 NOV 02AOC13-SS-D	11/14/2002	16	84	Yes
A1627-27A	05 NOV 02 AOC13-SS-	11/14/2002	16	84	Yes
A1627-28A	05 NOV 02 AOC13-SS-T	11/14/2002	14	86	Yes
A1627-29C	05 NOV 02 AOC13-SS-T	11/14/2002	16	84	Yes
A1627-30C	05 NOV 02 AOC13-SS-T	11/14/2002	15	85	Yes
A1627-31C	05 NOV 02 AOC13-SS-T	11/14/2002	6	94	Yes
A1627-32A	04 NOV 02 AOC13-SS-T	11/14/2002	2	98	Yes
A1627-33A	04 NOV 02 AOC13-SS-T	11/14/2002	10	90	Yes
A1627-34A	04 NOV 02 AOC13-SS-T	11/14/2002	10	90	Yes
A1627-35A	05 NOV 02 AOC13-SS-T	11/14/2002	16	84	Yes
A1627-38A	06 NOV02-AOC2-SS-TB	11/14/2002	11	89	Yes
A1627-39A	06 NOV02-AOC2-SS-TB	11/14/2002	15	85	Yes
A1627-40A	06 NOV02-AOC2-SS-TB	11/14/2002	7	93	Yes
A1627-41A	06 NOV02-AOC2-SS-TB	11/14/2002	17	83	Yes
A1627-42A	07 NOV02-AOC2-SS-TB	11/14/2002	7	93	Yes
A1627-43A	07 NOV02-AOC2-SS-TB	11/14/2002	10	90	Yes
A1627-44A	04 NOV02-AOC1+12-S	11/14/2002	2	98	Yes
A1627-45A	04 NOV02-AOC1+12-S	11/14/2002	11	89	Yes
A1627-46A	04 NOV02-AOC1+12-S	11/14/2002	4	96	Yes

Mitkem Sample ID	Client Sample ID	Analyzed	Percent Moisture	Percent Solids	Validated
A1627-47A	04 NOV02-AOC1+12-S	11/14/2002	7	93	Yes
A1627-49A	07 NOV02-AOC2-SS-TB	11/14/2002	12	88	Yes
A1627-50A	07 NOV02-AOC2-SS-TB	11/14/2002	9	91	Yes
A1627-52A	07 NOV02-AOC2-SS-D3	11/14/2002	93	7	Yes
A1627-53A	07 NOV02-AOC2-SS-D3	11/14/2002	10	90	Yes
A1627-54A	07 NOV02-AOC2-SS-D4	11/14/2002	15	85	Yes
A1627-55A	07 NOV02-AOC2-SS-D4	11/14/2002	12	88	Yes
A1627-56A	07 NOV02-AOC2-SS-TB	11/14/2002	9	91	Yes
A1627-57A	07 NOV02-AOC2-SS-TB	11/14/2002	13	87	Yes
A1627-58A	07 NOV02-AOC2-SS-TB	11/14/2002	9	91	Yes
A1627-59A	07 NOV02-AOC2-SS-TB	11/14/2002	15	85	Yes

MITKEM CORPORATION

* Total Petroleum Hydrocarbons *

ETPH

MITKEM CORPORATION

Analysis Report: Extractable Total Petroleum Hydrocarbons

Client: HRP Associates
Analysis: CT-ETPH
Matrix: Soil

Concentration In: mg/kg, dry weight basis
Date Extracted: 11/14/02

Lab ID	Client ID	Result	Reporting Limit	% Solid	p-Terphenyl Surrogate Recovery %	Analysis Date
A1627-01A	12TB845	22	3	81	88	11/21/02
A1627-02A	12TB1524	23	3	87	93	11/21/02
A1627-03A	12TB1068	8	3	91	93	11/21/02
A1627-04A	12SSD1A46	12	3	80	86	11/21/02
A1627-05A	12SSD1B46	10	3	83	88	11/21/02
A1627-08A	12SSTB1824	260	4	61	94	11/21/02
A1627-10A	12SSTB1702	46	3	77	94	11/21/02
A1627-11A	12SSTB1602	6	3	81	93	11/21/02
A1627-12A	12SSTB1424	3	3	88	89	11/21/02
A1627-14A	13SSTB23245	ND	3	89	84	11/21/02
A1627-15A	13SSTB2513	ND	3	80	91	11/21/02
A1627-16A	13SSTB2635	ND	3	89	90	11/21/02
A1627-17A	13SSTB2702	46	3	91	90	11/21/02
A1627-18A	13SSTB2813	3	3	84	86	11/21/02
A1627-19A	13SSTB2902	36	3	87	92	11/21/02
A1627-20A	13SSTB3013	ND	3	84	85	11/21/02
A1627-21A	13SSTB3213	20	2	93	84	11/21/02
A1627-22A	13SSTB3335	11	3	80	86	11/21/02
A1627-23A	13SSTB3524	5	2	94	89	11/21/02
A1627-24A	13SSTB3902	160	3	88	88	11/26/02
QA/QC						
Method Blank						
MB-4358		ND	2		92	11/21/02
Lab Control Sample (% Recovery)						
LCS-4358		80			92	11/21/02
LCSD-4358		84			90	11/21/02

1347

MITKEM CORPORATION

Analysis Report: Extractable Total Petroleum Hydrocarbons

Client: HRP Associates
Analysis: CT-ETPH
Matrix: Soil

Concentration In: mg/kg, dry weight basis
Date Extracted: 11/14/02

Lab ID	Client ID	Result	Reporting Limit	% Solid	p-Terphenyl Surrogate Recovery %	Analysis Date
A1627-26A	13SSD2A35	4	3	84	87	11/21/02
A1627-27A	13SSD2B35	4	3	84	85	11/22/02
A1627-28A	13SSTB2435	6	3	86	93	11/22/02
A1627-29C	13SSTB3435	7	3	84	86	11/22/02
A1627-30C	13SSTB2413	5	3	85	90	11/22/02
A1627-31C	13SSTB3124	ND	2	94	88	11/22/02
A1627-32A	13SSTB1902	45	2	98	86	11/26/02
A1627-33A	13SSTB20235	ND	3	90	90	11/22/02
A1627-34A	13SSTB2123	4	3	80	86	11/22/02
A1627-35A	13SSTB2202	5	3	84	82	11/22/02
A1627-36A	2SSTB3746	3	3	89	89	11/22/02
A1627-39A	2SSTB3824	7	3	85	82	11/22/02
A1627-40A	2SSTB3902	15	2	93	83	11/22/02
A1627-41A	2SSTB40465	100	3	83	90	11/22/02
A1627-42A	2SSTB4724	3	2	93	86	11/22/02
A1627-43A	2SSTB4802	15	3	90	92	11/22/02
A1627-44A	12SSTB1302	720	23	98	104	11/22/02
A1627-45A	12SSTB1224	360	26	89	130	11/26/02
A1627-46A	12SSTB1102	920	24	96	103	11/22/02
A1627-47A	12SSTB902	540	25	93	111	11/22/02
QA/QC						
Method Blank						
MB-4359		ND	2		87	11/21/02
Lab Control Sample (% Recovery)						
LCS-4359		77			92	11/21/02
LCSD-4359		82			87	11/21/02

001348

MITKEM CORPORATION

Analysis Report: Extractable Total Petroleum Hydrocarbons

Client: HRP Associates
Analysis: CT-ETPH
Matrix: Soil

Concentration In: mg/kg, dry weight basis
Date Extracted: 11/15/02

Lab ID	Client ID	Result	Reporting Limit	% Solid	p-Terphenyl Surrogate Recovery %	Analysis Date
A1627-49A	2SSTB41465	5	3	88	92	11/22/02
A1627-50A	2SSTB4246	8	2	91	83	11/22/02
A1627-52A	2SSD3A465	ND	3	90	93	11/22/02
A1627-53A	2SSD3B465	4	3	90	90	11/22/02
A1627-56A	2SSTB4302	20	2	91	91	11/22/02
A1627-57A	2SSTB4402	170	3	87	84	11/26/02
A1627-58A	2SSTB4524	ND	2	91	92	11/22/02
A1627-59A	2SSTB4602	ND	3	85	81	11/22/02
QA/QC						
Method Blank						
MB-4369		ND	2		80	11/21/02
Lab Control Sample (% Recovery)						
LCS-4369		80			92	11/21/02
LCSD-4369		84			89	11/21/02

001349

MITKEM CORPORATION

Analysis Report: Extractable Total Petroleum Hydrocarbons

Client: HRP Associates
Analysis: CT-ETPH, 3/99
Matrix: Aqueous

Concentration in: mg/L
Date Extracted: 11/11/02

Lab ID	Client ID	Result	Reporting Limit	p-Terphenyl Surrogate % Recovery	Analysis Date
A1627-07C	AOC11E1	ND	0.10	88	11/26/02
A1627-13C	AOC2E3	ND	0.10	49	11/26/02
A1627-25C	AOC13E2	ND	0.10	71	11/26/02
A1627-51C	AOC2E4	ND	0.10	74	11/26/02
QA/QC					
Method Blank					
MB-4249		ND	0.10	36	11/26/02
Lab Control Sample (% Recovery)					
LCS-4249		59		42	11/26/02
LCSD-4249		62		40	11/26/02

ND = Not Detected

001350

MITKEM CORPORATION

Analysis Report: Extractable Total Petroleum Hydrocarbons

Client: HRP Associates
Analysis: CT-ETPH, 3/99
Matrix: Aqueous

Concentration in: mg/L
Date Extracted: 11/25/02

Lab ID	Client ID	Result	Reporting Limit	p-Terphenyl Surrogate % Recovery	Analysis Date
A1627-36B	AOC2BB1	ND	0.10	52	11/26/02
A1627-37B	AOC2BB2	0.10	0.10	47	11/26/02
QA/QC					
Method Blank					
MB-4124		ND	0.10	92	11/26/02
Lab Control Sample (% Recovery)					
LCS-4124		68		68	11/26/02
LCSD-4124		66		80	11/26/02

ND = Not Detected

001351

ETPH-SOIL

A1627

Sample	total area	inter area	surr area	sw (g)	%solid	RRF	IC (ug/ml)	FV (ml)	Dil	TPH (mg/kg)	RL (mg/kg)	Surr (%)
MB-4358	83,475,042	40,718,893	41,038,370	30.0	100	0.9061	40	1	1	0	2	92
A1627-01A	279,178,724	19,833,983	19,016,022	30.1	81	0.9159	40	1	1	22	3	88
A1627-02A	651,204,491	41,745,136	42,460,062	30.3	87	0.9061	40	1	1	23	3	93
A1627-03A	109,204,022	18,337,491	18,685,388	30.5	91	0.9159	40	1	1	6	3	93
A1627-04A	360,073,706	42,214,981	39,411,788	30.5	80	0.9061	40	1	1	12	3	86
A1627-05A	164,035,841	20,983,347	20,134,679	30.5	83	0.9159	40	1	1	10	3	88
A1627-08A	4,959,863,749	44,722,879	46,068,046	30.2	61	0.9061	40	1	1	281	4	94
A1627-10A	525,290,114	19,582,056	20,043,614	30.6	77	0.9159	40	1	1	46	3	94
A1627-11A	266,482,370	41,628,480	42,173,737	30.5	81	0.9061	40	1	1	8	3	93
A1627-12A	74,088,435	19,739,089	19,077,499	30.9	88	0.9159	40	1	1	3	3	89
A1627-14A	121,049,495	41,229,303	42,150,851	30.4	89	0.9061	40	1	1	1	3	94
A1627-15A	55,616,248	19,321,813	19,201,533	30.4	80	0.9159	40	1	1	2	3	91
A1627-16A	103,928,487	42,889,044	42,056,153	30.3	89	0.9061	40	1	1	1	3	90
A1627-17A	740,882,445	23,517,285	23,163,128	30.6	91	0.9159	40	1	1	46	3	90
A1627-18A	151,543,116	39,038,767	41,548,930	30.5	84	0.9061	40	1	1	3	3	86
A1627-19A	461,791,091	18,986,953	19,073,969	30.7	87	0.9159	40	1	1	36	3	92
A1627-20A	133,414,348	41,503,837	38,676,754	30.2	84	0.9061	40	1	1	2	3	85
A1627-21A	295,390,983	20,021,213	18,415,291	30.3	93	0.9159	40	1	1	20	2	84
A1627-22A	335,102,079	42,668,494	40,005,428	30.0	80	0.9061	40	1	1	11	3	86
A1627-23A	104,193,770	20,784,516	20,112,714	30.3	94	0.9159	40	1	1	5	2	89
A1627-24A	2,316,192,731	22,960,349	17,061,841	30.6	88	0.9159	40	1	1	161	3	68

TPH (mg/kg)= [Total area - Inter. Area - Surr. Area]* IC (ug/ml)* FV (ml)* Dil. * 100
Inter. Area* RRF* SW(g)* %solid

001352

ETPH-SOIL

A1627

Sample	total area	inter area	surr area	sw (g)	%solid	RRF	IC (ug/ml)	FV (ml)	Dil	TPH (mg/kg)	RL (mg/kg)	Surr (%)
MB-4359	43,409,548	19,445,486	18,379,983	30.0	100	0.9159	40	1	1	0	2	87
A1627-26A	77,592,927	17,458,670	16,612,496	30.6	84	0.9159	40	1	1	4	3	87
A1627-27A	178,255,279	42,052,577	39,133,640	30.9	84	0.9061	40	1	1	4	3	85
A1627-28A	103,762,704	19,294,437	19,516,928	30.5	86	0.9159	40	1	1	6	3	93
A1627-29A	258,483,497	44,167,584	41,419,688	30.4	84	0.9061	40	1	1	7	3	86
A1627-30A	95,300,280	18,964,653	18,582,924	30.3	85	0.9159	40	1	1	5	3	90
A1627-31A	110,469,398	41,293,426	39,549,618	30.4	94	0.9061	40	1	1	1	2	88
A1627-32A	1,498,753,618	46,823,668	33,630,532	30.4	98	0.9061	40	1	1	45	2	66
A1627-33A	130,033,793	43,127,374	42,465,566	30.6	90	0.9061	40	1	1	2	3	90
A1627-34A	89,072,409	19,229,001	17,968,028	30.2	90	0.9159	40	1	1	4	3	86
A1627-35A	205,674,787	43,405,625	38,938,175	30.5	84	0.9061	40	1	1	5	3	82
A1627-38A	76,396,118	19,096,006	18,596,294	30.0	89	0.9159	40	1	1	3	3	89
A1627-39A	245,301,558	40,895,018	36,777,850	30.3	85	0.9061	40	1	1	7	3	82
A1627-40A	217,799,630	18,423,688	16,645,407	30.4	93	0.9159	40	1	1	163	2	83
A1627-41A	2,665,746,287	43,694,687	43,134,748	30.7	83	0.9061	40	1	1	102	3	90
A1627-42A	67,308,411	18,519,735	17,423,084	30.5	83	0.9159	40	1	1	3	2	86
A1627-43A	472,578,310	40,505,453	40,780,911	30.6	90	0.9061	40	1	1	15	3	92
A1627-44A	999,330,151	19,791,650	2,248,290	30.4	98	0.9159	40	10	1	716	23	104
A1627-45A	963,340,552	41,972,071	5,928,073	30.5	89	0.9061	40	1	10	355	26	130
A1627-46A	1,238,258,669	19,874,947	2,236,977	30.3	96	0.9159	40	10	1	919	24	103
A1627-47A	894,378,985	19,193,158	2,323,641	30.5	93	0.9159	40	10	1	540	25	111

RRF = 0.9157

TPH (mg/kg)= [Total area - Inter. Area - Surr. Area]* IC (ug/ml)* FV (ml)* Dil. * 100
Inter. Area* RRF* SW(g)* %solid

001353

ETPH-SOIL

A1627

Sample	total area	inter area	surr area	sw (g)	%solid	RRF	IC (ug/ml)	FV (ml)	Dil	TPH (mg/kg)	RL (mg/kg)	Surr (%)
MB-4369	90,143,204	40,755,129	35,453,090	30.0	100	0.9061	40	1	1	1	2	80
A1627-49A	202,713,311	43,057,719	43,344,143	30.0	88	0.9061	40	1	1	5	3	92
A1627-50A	131,063,623	18,228,562	16,496,890	30.9	91	0.9159	40	1	1	8	2	83
A1627-52A	129,559,203	41,094,627	41,629,984	30.6	90	0.9061	40	1	1	2	3	93
A1627-53A	86,056,325	18,872,461	18,555,403	30.8	90	0.9159	40	1	1	4	3	90
A1627-56A	639,853,855	43,125,594	42,689,960	30.9	91	0.9061	40	1	1	20	2	91
A1627-57A	2,420,131,228	23,249,880	16,108,468	30.2	87	0.9159	40	1	1	170	3	64
A1627-58A	124,130,350	44,459,293	44,403,664	30.9	91	0.9061	40	1	1	1	2	92
A1627-59A	142,704,078	43,693,133	38,730,565	30.4	85	0.9061	40	1	1	2	3	81

TPH (mg/kg)= [Total area - Inter. Area - Surr. Area]* IC (ug/ml)* FV (ml)* Dil. * 100
Inter. Area* RRF* SW(g)* %solid

001354

ETPH-AQ

Sample	A1627 Total Area	ETPH Inter.area	AQUEOUS Surr.area	ean RR t C.(ug/	Sam (L)	FV (ml)	Dilu.	TPH (mg/L)	REP.L (mg/L)	Surr.(%)
MB-4249	77,027,767	36,959,831	14,478,912	0.9081	1	1	1	0.03	0.10	35
A1627-07C	74,070,200	21,066,108	20,327,136	0.9159	1	1	1	0.07	0.10	68
A1627-13C	121,663,254	37,051,549	19,982,900	0.9061	1	1	1	0.08	0.10	49
A1627-25C	48,046,774	19,853,934	15,470,782	0.8159	1	1	1	0.02	0.10	71
A1627-31C	138,733,948	38,615,066	31,398,315	0.9061	1	1	1	0.08	0.10	74

TPH (mg/L) = [Total Area - Inter. Area - Surr. Area)* Int.C.(ug/ml)*FV(ml)* Dilu.
(Inter. Area* RRF* Sam.(L)* 1000)

Sample	A1627 Total Area	ETPH Inter.area	AQUEOUS Surr.area	ean RR t C.(ug/	Sam (L)	FV (ml)	Dilu.	TPH (mg/L)	REP.L (mg/L)	Surr.(%)
MB-4124	60,227,645	17,718,244	17,703,772	0.8159	1	1	1	0.06	0.10	52
A1627-36B	101,496,005	41,485,196	23,630,770	0.9061	0.5	1	1	0.04	0.10	52
A1627-37B	87,805,380	23,419,648	11,830,669	0.8159	0.5	0.5	1	0.10	0.10	47

TPH (mg/L) = [Total Area - Inter. Area - Surr. Area)* Int.C.(ug/ml)*FV(ml)* Dilu.
(Inter. Area* RRF* Sam.(L)* 1000)

Page 1

001355

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6443.D Vial: 10
Acq On : 11-21-02 14:08:57 PM Operator:
Sample : A1627-01A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 13:45 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

Compound	R.T.	Response	Conc	Units	
Internal Standards					
1) I 5a-Androstane	15.19	19833983	40.000	ng	
System Monitoring Compounds					
2) S para-Terphenyl	15.74	19016022	43.967	ng	
Spiked Amount 50.000		Recovery =	87.93%		
Target Compounds					
3) Nonane C9	0.00	0	N.D.	ng	
4) DECANE C10	0.00	0	N.D.	ng	
5) DODECANE C12	0.00	0	N.D.	ng	
6) TETRADECANE C14	0.00	0	N.D.	ng	
7) HEXADECANE C 16	0.00	0	N.D.	ng	
8) OCTADECANE C18	0.00	0	N.D.	ng	
9) NONADECANE C19	0.00	0	N.D.	ng	
10) EICOSANE C20	0.00	0	N.D.	ng	d
11) DOCOSANE C22	0.00	0	N.D.	ng	d
12) TETRACOSANE C24	0.00	0	N.D.	ng	d
13) HEXACOSANE C26	0.00	0	N.D.	ng	
14) OCTACOSANE C28	0.00	0	N.D.	ng	
15) TRIACONTANE C30	0.00	0	N.D.	ng	
16) HEXATRIACONTANE C36	0.00	0	N.D.	ng	

EMF 11/25/02

001356

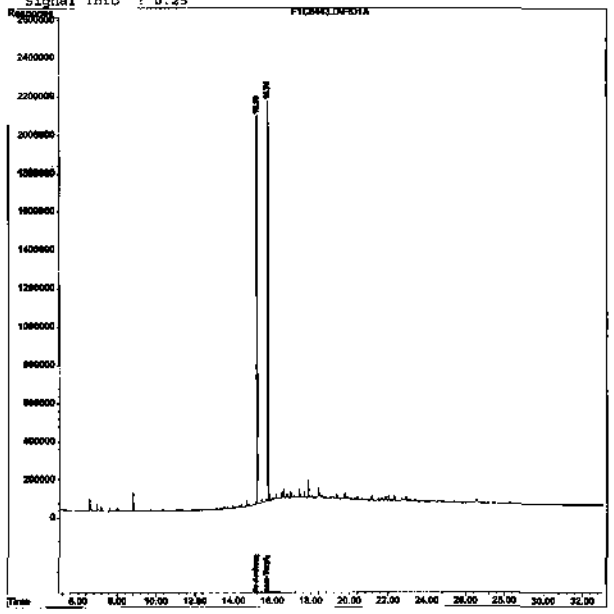
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6443.D ET0909F.M Mon Nov 25 13:45:28 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6443.D Vial: 10
Acq On : 11-21-02 14:08:57 PM Operator:
Sample : A1627-01A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 13:45 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6443.D ET0909F.M Mon Nov 25 13:45:32 2002 HPDOS9 Page 2

001357

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6443.D Vial: 10
Acq On : 11-21-02 14:08:57 PM Operator:
Sample : A1627-01A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6443.D\FID1A

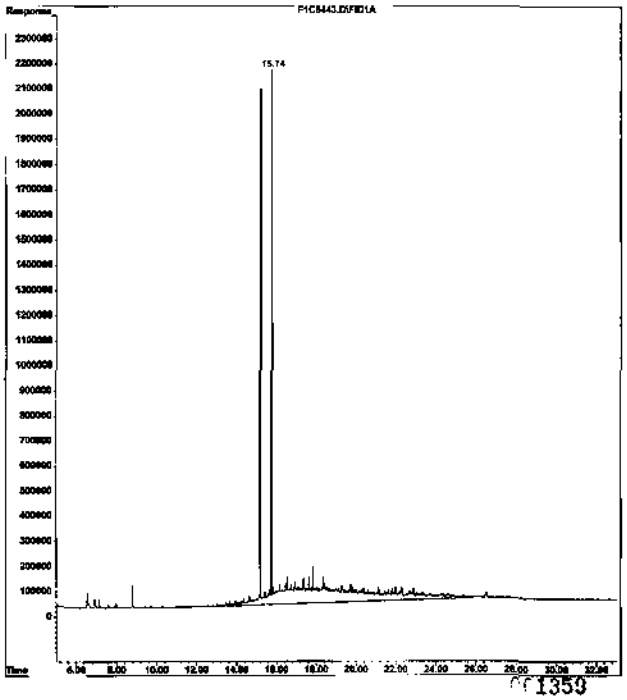
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.742	12.693	25.762	M	2127961	279178724	100.00%	100.000%

Sum of corrected areas: 279178724

F1C6443.D ET0909F.M Mon Nov 25 13:46:29 2002 HPDOS9

001358

File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6443.D
Operator :
Acquired : 11-21-02 14:08:57 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-01A
Misc Info :
Vial Number: 10



001359

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6444.D Vial: 11
Acq On : 11-21-02 14:51:08 PM Operator:
Sample : A1627-02A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:02 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5a-Androstane	14.65	41745136	40.000 ng
System Monitoring Compounds			
2) S para-Terphenyl	15.23	42460062	46.632 ng
Spiked Amount 50.000		Recovery =	93.26%
Target Compounds			
3) Nonane C9	0.00	0	N.D. ng d
4) DECANE C10	0.00	0	N.D. ng d
5) DODECANE C12	0.00	0	N.D. ng d
6) TETRADECANE C14	0.00	0	N.D. ng d
7) HEXADECANE C 16	0.00	0	N.D. ng d
8) OCTADECANE C18	0.00	0	N.D. ng d
9) NONADECANE C19	0.00	0	N.D. ng d
10) EICOSANE C20	0.00	0	N.D. ng d
11) *DOCOSANE C22*	0.00	0	N.D. ng d
12) TETRACOSANE C24	0.00	0	N.D. ng d
13) HEXACOSANE C26	0.00	0	N.D. ng d
14) OCTACOSANE C28	0.00	0	N.D. ng d
15) TRIACONTANE C30	0.00	0	N.D. ng d
16) HEXATRIACONTANE C36	0.00	0	N.D. ng d

BMK
11/25/02

(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6444.D ET0909R.M Mon Nov 25 11:03:02 2002 HPDOS9 Page 1

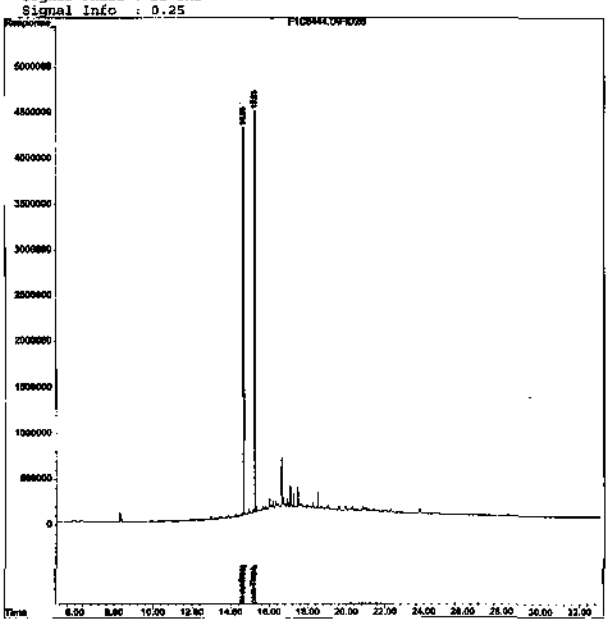
001360

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6444.D Vial: 11
Acq On : 11-21-02 14:51:08 PM Operator:
Sample : A1627-02A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:02 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6444.D ET0909R.M Mon Nov 25 11:03:09 2002 HPDOS9 Page 2

001361

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6444.D Vial: 11
Acq On : 11-21-02 14:51:08 PM Operator:
Sample : A1627-02A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6444.D\FID2B

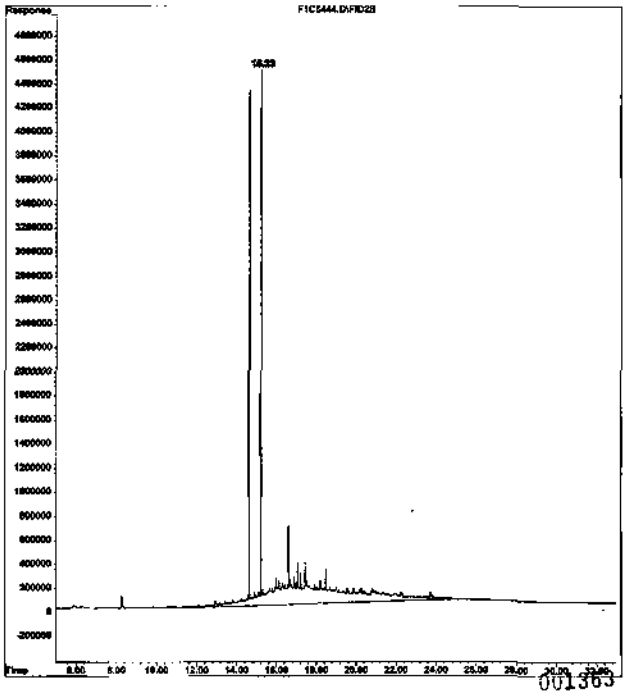
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.232	11.266	24.877	M	4470464	651294491	100.00%	100.000%

Sum of corrected areas: 651294491

F1C6444.D ET0909R.M Mon Nov 25 11:03:32 2002 HPDOS9

001362

File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6444.D
Operator :
Acquired : 11-21-02 14:51:08 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-02A
Misc Info :
Vial Number: 11



001363

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6445.D Vial: 12
Acq On : 11-21-02 14:51:08 PM Operator:
Sample : A1627-03A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 13:47 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.19	18337491	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.74	18585388	46.728 ng
Spiked Amount	50.000	Recovery	=	93.46%
	Target Compounds			
3)	Nonane C9	0.00	0	N.D. ng
4)	DECANE C10	0.00	0	N.D. ng
5)	DODECANE C12	0.00	0	N.D. ng
6)	TETRADECANE C14	0.00	0	N.D. ng
7)	HEXADECANE C 16	0.00	0	N.D. ng
8)	OCTADECANE C18	0.00	0	N.D. ng
9)	NONADECANE C19	0.00	0	N.D. ng
10)	EICOSANE C20	0.00	0	N.D. ng d
11)	*DOCOSANE C22*	0.00	0	N.D. ng d
12)	TETRACOSANE C24	0.00	0	N.D. ng d
13)	HEXACOSANE C26	0.00	0	N.D. ng
14)	OCTACOSANE C28	0.00	0	N.D. ng
15)	TRIACONTANE C30	0.00	0	N.D. ng
16)	HEXATRIACONTANE C36	0.00	0	N.D. ng

BMF 11/25/02

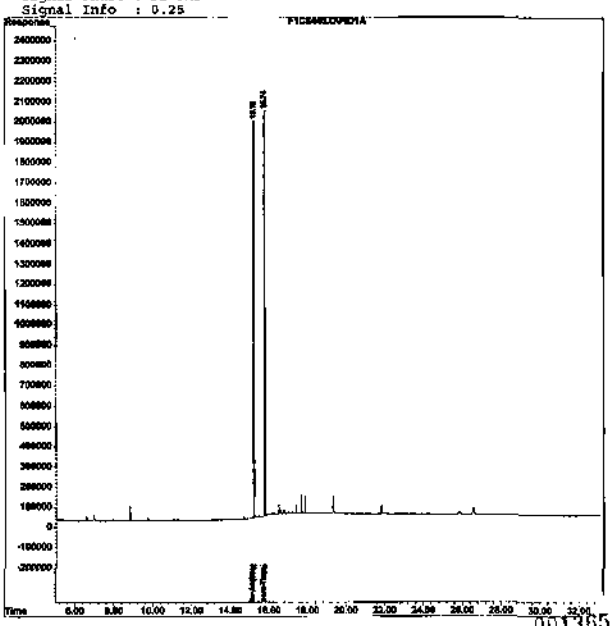
(f)=RT Delta > 1/2 Window (m)=manual 001364
F1C6445.D ET0909F.M Mon Nov 25 13:47:24 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6445.D Vial: 12
Acq On : 11-21-02 14:51:08 PM Operator:
Sample : A1627-03A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 13:47 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6445.D ET0909F.M Mon Nov 25 13:47:28 2002 HPDOS9 Page 2

001365

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6445.D Vial: 12
Acq On : 11-21-02 14:51:08 PM Operator:
Sample : A1627-03A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6445.D\FID1A

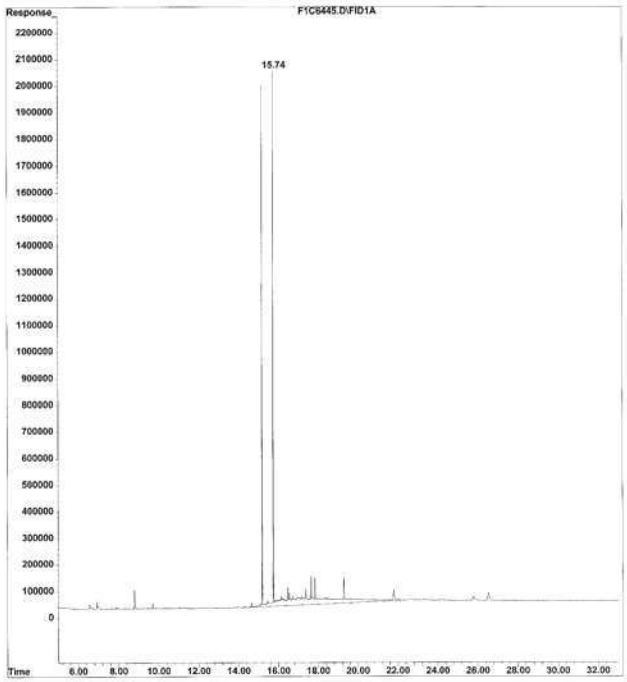
peak #	R.T. min	Start min	End min	PK	peak TY	peak height	peak area	peak % max.	% of total
1	15.743	14.152	22.209		M2	014524	109204022	100.00%	100.000%

Sum of corrected areas: 109204022

F1C6445.D ET0909F.M Mon Nov 25 13:47:45 2002 HPDOS9

001366

File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6445.D
Operator :
Acquired : 11-21-02 14:51:08 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-03A
Misc Info :
Vial Number: 12



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6446.D Vial: 13
Acq On : 11-21-02 15:33:20 PM Operator:
Sample : A1627-04A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:04 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.65	42214981	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.23	39411788	42.802	ng	
Spiked Amount	50.000		Recovery =	85.60%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	d
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF
11/25/02

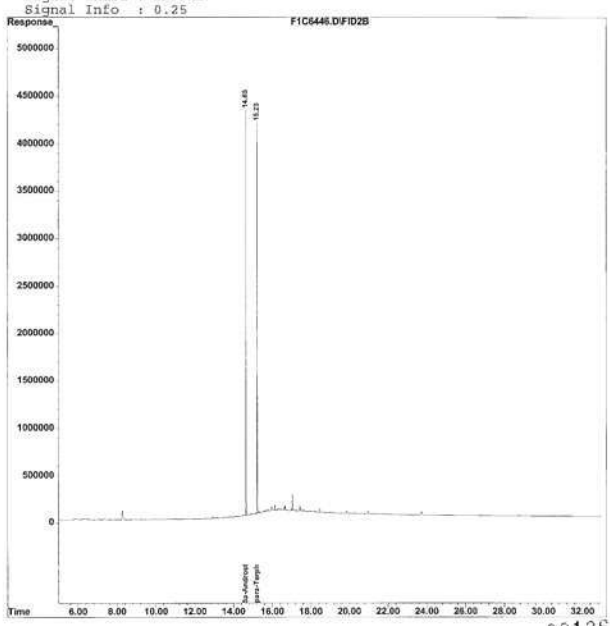
(f)=RT Delta > 1/2 Window (m)=manual
F1C6446.D ET0909R.M Mon Nov 25 11:04:49 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6446.D Vial: 13
Acq On : 11-21-02 15:33:20 PM Operator:
Sample : A1627-04A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:04 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6446.D ET0909R.M Mon Nov 25 11:04:57 2002 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6446.D Vial: 13
Acq On : 11-21-02 15:33:20 PM Operator:
Sample : A1627-04A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

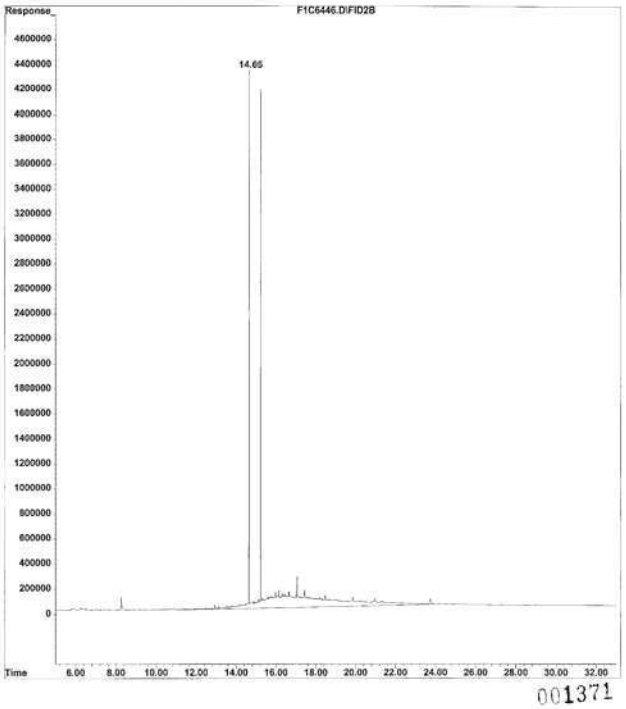
Signal : F1C6446.D\FID2B

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.645	11.287	23.855	M	4311311	360073706	100.00%	100.000%

Sum of corrected areas: 360073706

F1C6446.D ET0909R.M Mon Nov 25 11:05:22 2002 HPDOS9

File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6446.D
Operator :
Acquired : 11-21-02 15:33:20 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-04A
Misc Info :
Vial Number: 13



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6447.D Vial: 14
Acq On : 11-21-02 15:33:20 PM Operator:
Sample : A1627-05A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 13:48 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	15.19	20983347	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.74	20134679	44.003	ng	
Spiked Amount	50.000		Recovery =	88.01%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	
14)	OCTACOSANE C28	0.00	0	N.D.	ng	
15)	TRIACONTANE C30	0.00	0	N.D.	ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

BMF
11/25/02

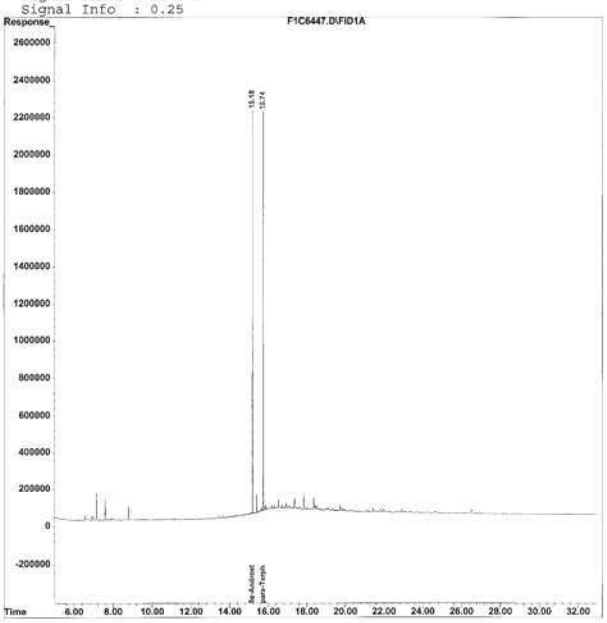
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6447.D ET0909F.M Mon Nov 25 13:48:41 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6447.D Vial: 14
Acq On : 11-21-02 15:33:20 PM Operator:
Sample : A1627-05A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 13:48 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6447.D ET0909F.M Mon Nov 25 13:48:45 2002 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6447.D Vial: 14
Acq On : 11-21-02 15:33:20 PM Operator:
Sample : A1627-05A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

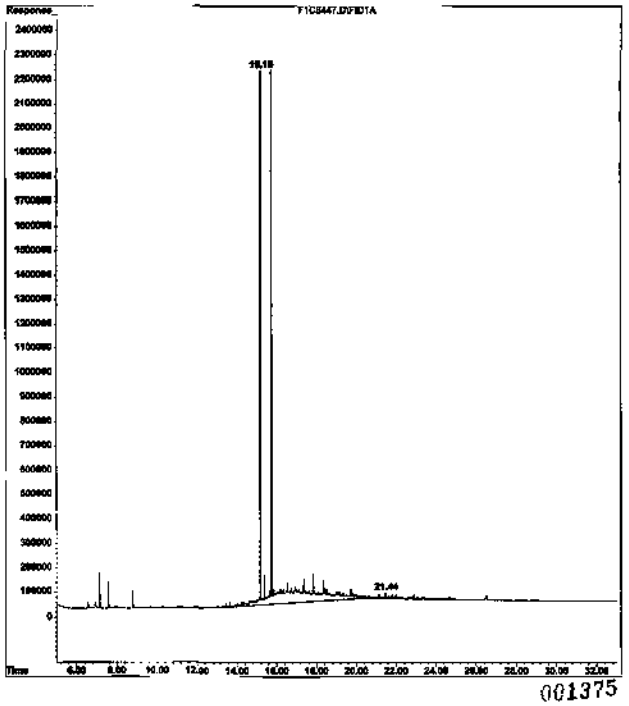
Signal : F1C6447.D\FID1A

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.185	13.186	20.509	M	2191030	150098721	100.00%	91.504%
2	21.444	20.531	25.222	M	23474	13937120	9.29%	8.496%

Sum of corrected areas: 164035841

F1C6447.D ET0909F.M Mon Nov 25 13:49:40 2002 HPDOS9

File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6447.D
Operator :
Acquired : 11-21-02 15:33:20 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-05A
Misc Info :
Vial Number: 14



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6517.D Vial: 4
Acq On : 11-26-02 15:05:54 PM Operator:
Sample : A1627-07C Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 15:35 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I 5a-Androstane	15.14	21999108	40.000	ng	
	System Monitoring Compounds					
2)	S para-Terphenyl	15.70	20327136	44.180	ng	
Spiked Amount	50.000	Recovery	=	88.36%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	
14)	OCTACOSANE C28	0.00	0	N.D.	ng	
15)	TRIACONTANE C30	0.00	0	N.D.	ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

BMF
11/27/02

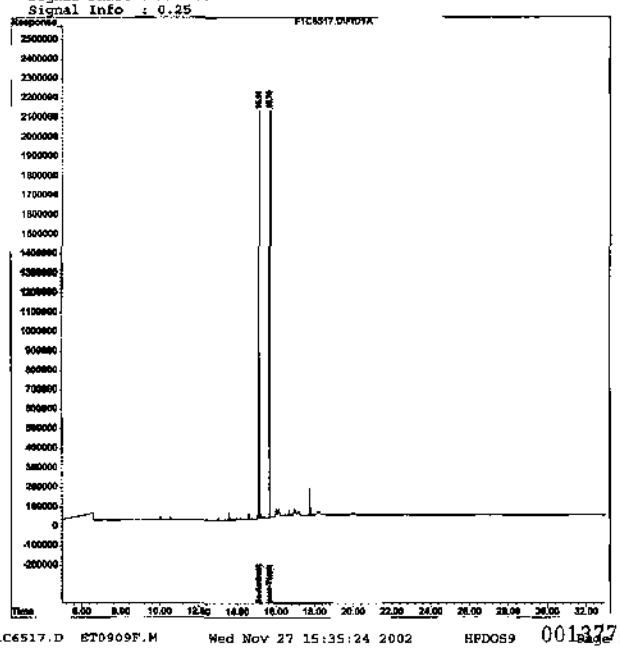
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6517.D ET0909F.M Wed Nov 27 15:35:20 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6517.D Vial: 4
Acq On : 11-26-02 15:05:54 PM Operator:
Sample : A1627-07C Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 15:35 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6517.D ET0909F.M Wed Nov 27 15:35:24 2002 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6517.D Vial: 4
Acq On : 11-26-02 15:05:54 PM Operator:
Sample : A1627-07C Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

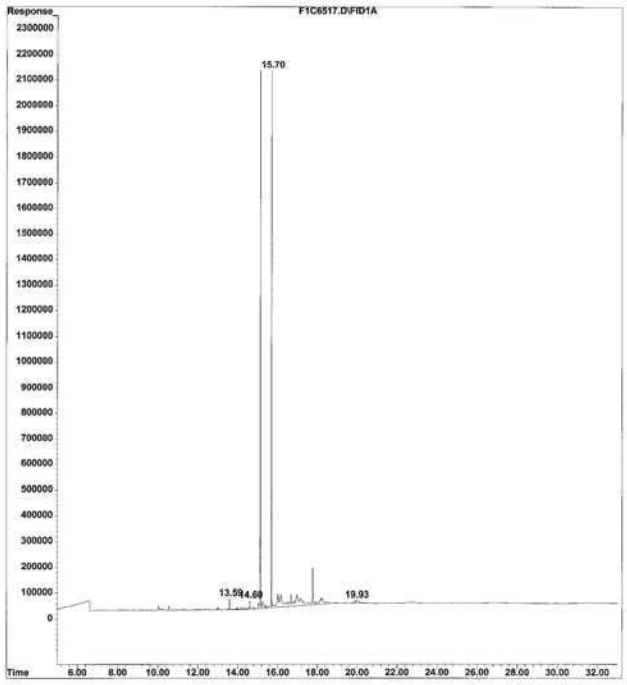
Signal : F1C6517.D\FID1A

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	13.593	13.491	14.116	M	41198	919094	1.32%	1.241%
2	14.600	14.130	14.805	M	30827	1079850	1.55%	1.458%
3	15.696	14.908	18.752	M2095374	69637443	100.00%	94.015%	
4	19.931	18.791	20.533	M	9803	2433813	3.49%	3.286%

Sum of corrected areas: 74070200

F1C6517.D ET0909F.M Wed Nov 27 15:35:56 2002 HPDOS9

File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6517.D
Operator :
Acquired : 11-26-02 15:05:54 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-07C
Misc Info :
Vial Number: 4



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6448.D Vial: 15
Acq On : 11-21-02 16:15:26 PM Operator:
Sample : A1627-08A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 26 15:48 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.65	44722879	40.000	ng	m3
	System Monitoring Compounds					
2) S	para-Terphenyl	15.23	40068046	47.225	ng	m3
Spiked Amount	50.000		Recovery =	94.45%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	d
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF 11/27/02

BMF 11/27/02

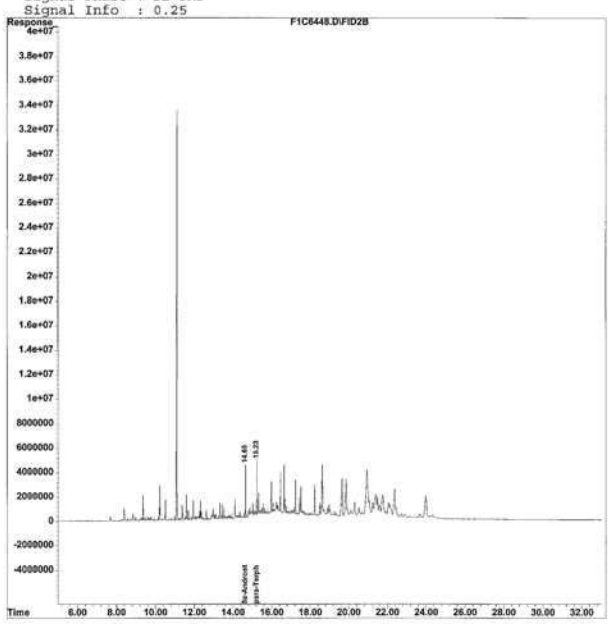
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6448.D ET0909R.M Wed Nov 27 09:02:20 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6448.D Vial: 15
Acq On : 11-21-02 16:15:26 PM Operator:
Sample : A1627-08A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 26 15:48 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

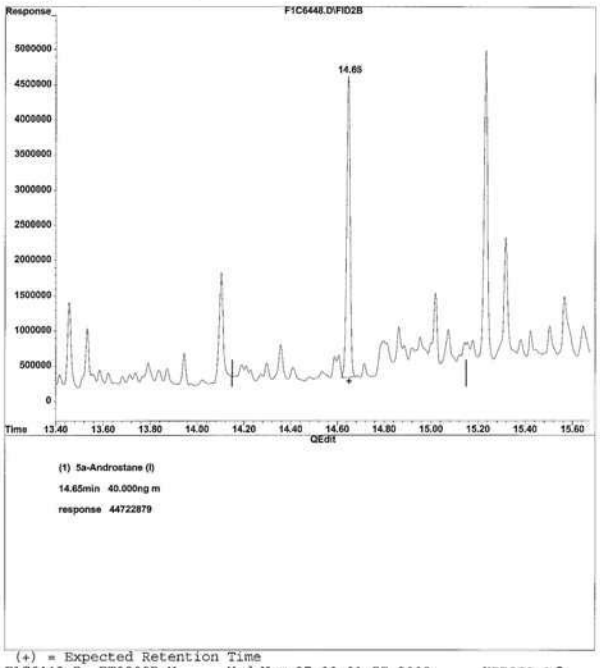


F1C6448.D ET0909R.M Wed Nov 27 09:02:28 2002 HPDOS9 Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6448.D Vial: 15
Acq On : 11-21-02 16:15:26 PM Operator:
Sample : A1627-08A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 26 15:48 19102 Quant Results File: ET0909R.RES

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration

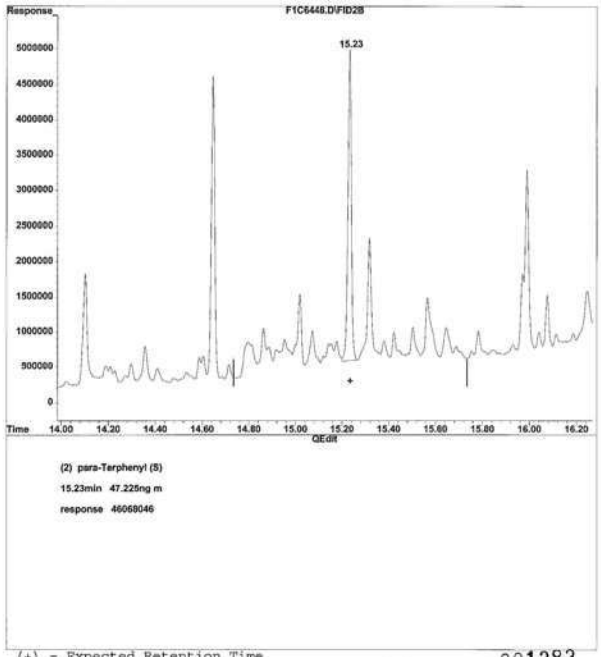


(+) = Expected Retention Time
F1C6448.D ET0909R.M Wed Nov 27 09:01:55 2002 HPDOS9

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6448.D Vial: 15
Acq On : 11-21-02 16:15:26 PM Operator:
Sample : A1627-08A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 26 15:48 19102 Quant Results File: ET0909R.RES

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration



(+) = Expected Retention Time
F1C6448.D ET0909R.M Wed Nov 27 09:02:04 2002 HPDOS9

001383

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6448.D Vial: 15
Acq On : 11-21-02 16:15:26 PM Operator:
Sample : A1627-08A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6448.D\FID2B

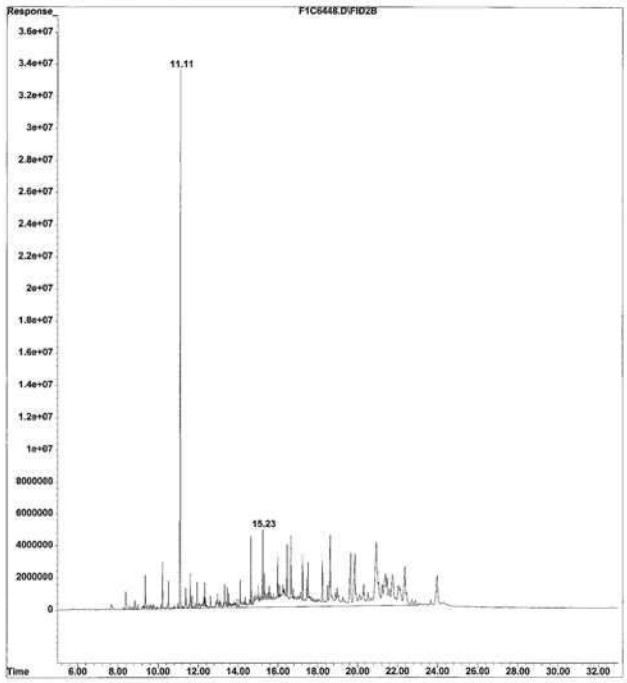
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	11.106	8.181	12.583	M	33538537	958576364	23.96%	19.327%
2	15.233	12.651	23.019	M	4813143	4001287383	100.00%	80.673%

Sum of corrected areas: 4959863746

F1C6448.D ET0909F.M Wed Nov 27 10:12:58 2002 HPDOS9

001384

File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6448.D
Operator :
Acquired : 11-21-02 16:15:26 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-08A
Misc Info :
Vial Number: 15



001385

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6449.D Vial: 16
Acq On : 11-21-02 16:15:26 PM Operator:
Sample : A1627-10A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 13:51 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	15.19	19582056	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.74	20043614	46.939	ng	
Spiked Amount	50.000	Recovery	=	93.88%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

EMF
11/25/02

(f)=RT Delta > 1/2 Window (m)=manual int
F1C6449.D ET0909F.M Mon Nov 25 13:51:50 2002 HPDOS9

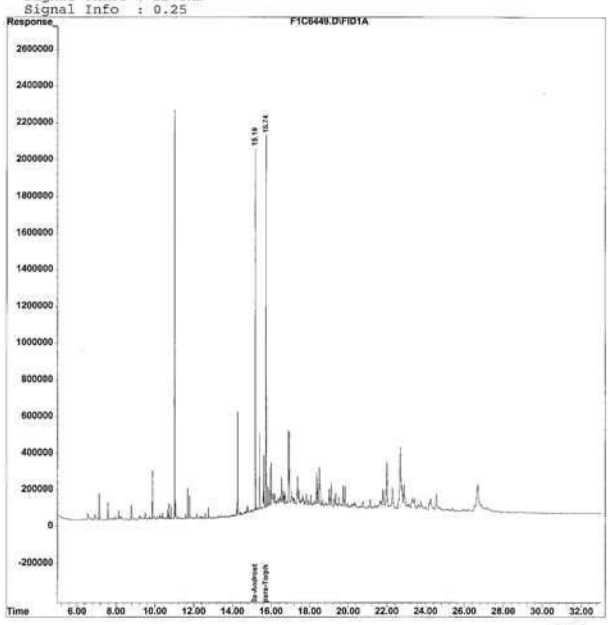
001386

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6449.D Vial: 16
Acq On : 11-21-02 16:15:26 PM Operator:
Sample : A1627-10A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 13:51 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6449.D ET0909F.M Mon Nov 25 13:51:54 2002 HPDOS9 Page 2

001387

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6449.D Vial: 16
Acq On : 11-21-02 16:15:26 PM Operator:
Sample : A1627-10A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6449.D\FID1A

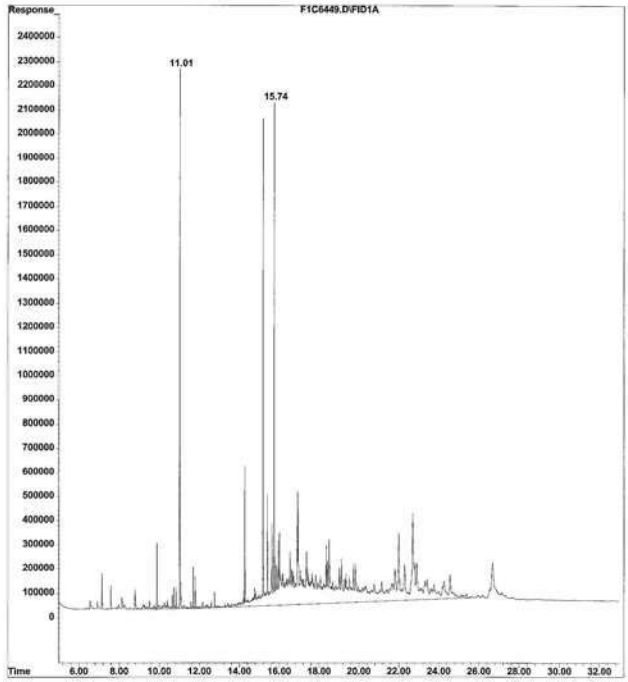
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	11.011	8.720	12.549	M	2232525	47767281	10.00%	9.094%
2	15.742	12.681	25.515	M	2082953	477522833	100.00%	90.906%

Sum of corrected areas: 525290114

F1C6449.D ET0909F.M Wed Nov 27 10:18:11 2002 HPDOS9

001388

File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6449.D
Operator :
Acquired : 11-21-02 16:15:26 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-10A
Misc Info :
Vial Number: 16



001389

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6450.D Vial: 17
Acq On : 11-21-02 16:58:08 PM Operator:
Sample : A1627-11A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:06 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.65	41628480	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.23	42173737	46.447	ng	
Spiked Amount	50.000		Recovery =	92.89%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	d
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF
11/25/02.

(f)=RT Delta > 1/2 Window (m)=manual
F1C6450.D ET0909R.M Mon Nov 25 11:06:48 2002 HPDOS9 Page 1

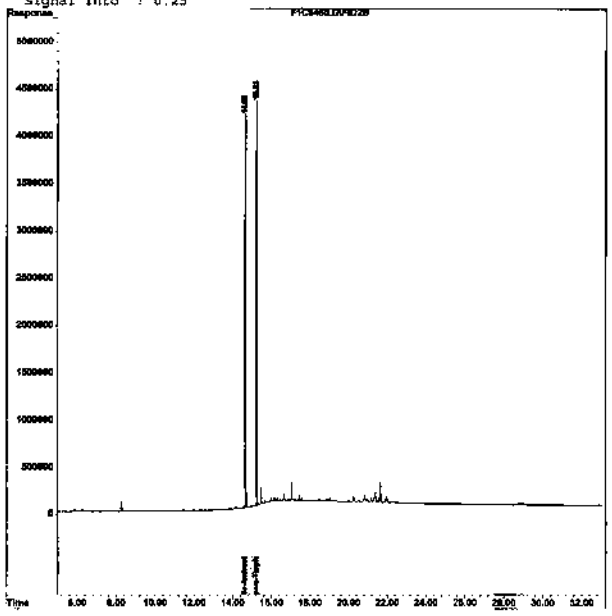
001390

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6450.D Vial: 17
Acq On : 11-21-02 16:58:08 PM Operator:
Sample : A1627-11A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:06 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6450.D ET0909R.M Mon Nov 25 11:06:55 2002 HPDOS9 Page 2

001391

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6450.D Vial: 17
Acq On : 11-21-02 16:58:08 PM Operator:
Sample : A1627-11A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6450.D\FID2B

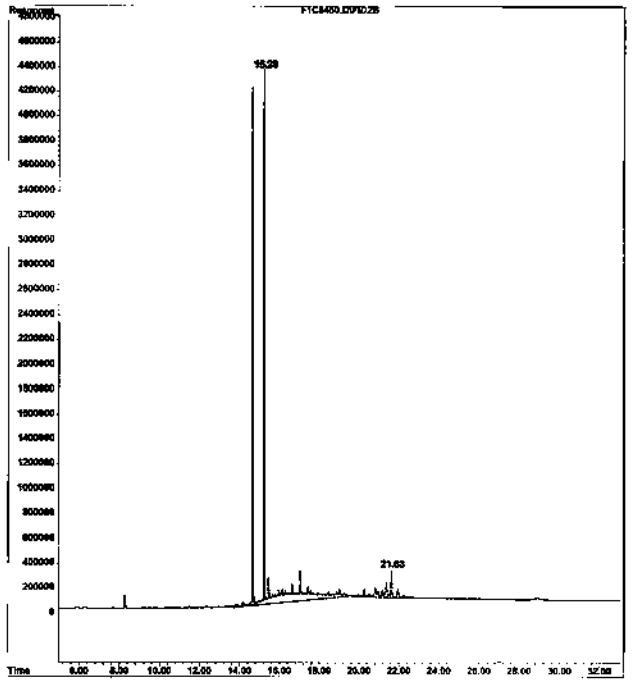
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.232	13.632	19.504	M	4307446	225602251	100.00%	84.659%
2	21.630	19.737	22.789	M	224606	40880119	18.12%	15.341%

Sum of corrected areas: 266482370

F1C6450.D ET0909R.M Mon Nov 25 11:07:28 2002 HPDOS9

001392

File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6450.D
Operator :
Acquired : 11-21-02 16:58:08 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-11A
Misc Info :
Vial Number: 17



001393

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6451.D Vial: 18
Acq On : 11-21-02 16:58:08 PM Operator:
Sample : A1627-12A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 13:53 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	15.19	19739089	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.74	19077499	44.321	ng	
Spiked Amount	50.000	Recovery	=	88.64%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	
15)	TRIACONTANE C30	0.00	0	N.D.	ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

11/25/02

(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6451.D ET0909F.M Mon Nov 25 13:53:53 2002 HPDOS9 Page 1

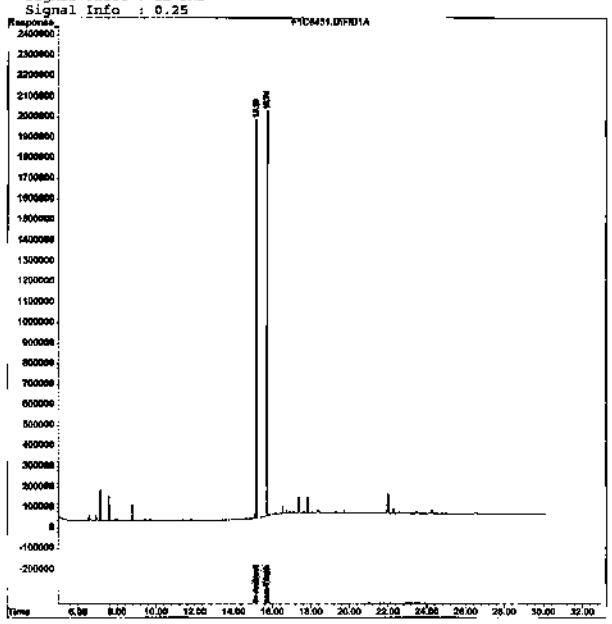
001394

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6451.D Vial: 18
Acq On : 11-21-02 16:58:08 PM Operator:
Sample : A1627-12A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 13:53 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.1\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6451.D ET0909F.M Mon Nov 25 13:53:57 2002 HPDOS9

001395

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6451.D Vial: 18
Acq On : 11-21-02 16:58:08 PM Operator:
Sample : A1627-12A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6451.D\FID1A

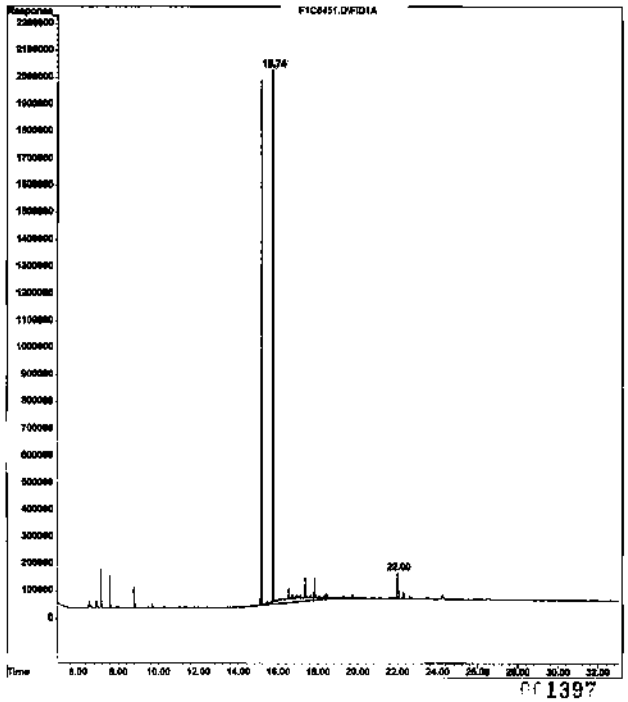
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.742	14.174	18.763	M	1981234	65395660	100.00%	88.267%
2	21.997	18.934	22.449	M	97210	8692775	13.29%	11.733%

Sum of corrected areas: 74088435

F1C6451.D ET0909F.M Mon Nov 25 13:54:15 2002 HPDOS9

001396

File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6451.D
Operator :
Acquired : 11-21-02 16:58:08 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-12A
Misc Info :
Vial Number: 18



001397

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6518.D Vial: 5
Acq On : 11-26-02 15:49:09 PM Operator:
Sample : A1627-13C Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 15:24 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I 5a-Androstane	14.62	37051549	40.000	ng	
	System Monitoring Compounds					
2)	S para-Terphenyl	15.20	19982900	24.726	ng	
Spiked Amount	50.000	Recovery	=	49.45%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

EMF 11/27/02

(f)=RT Delta > 1/2 Window (m)=manual

F1C6518.D ET0909R.M Wed Nov 27 15:25:20 2002 HPDOS9 Page 1

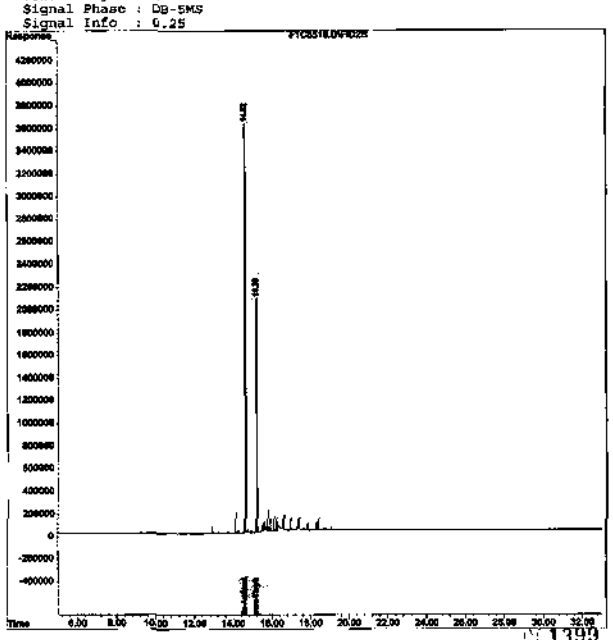
001398

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6518.D Vial: 5
Acq On : 11-26-02 15:49:09 PM Operator:
Sample : A1627-13C Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 15:24 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6518.D ET0909R.M Wed Nov 27 15:25:27 2002 HPDOS9 Page 2

1399

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6518.D Vial: 5
Acq On : 11-26-02 15:49:09 PM Operator:
Sample : A1627-13C Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6518.D\FID2B

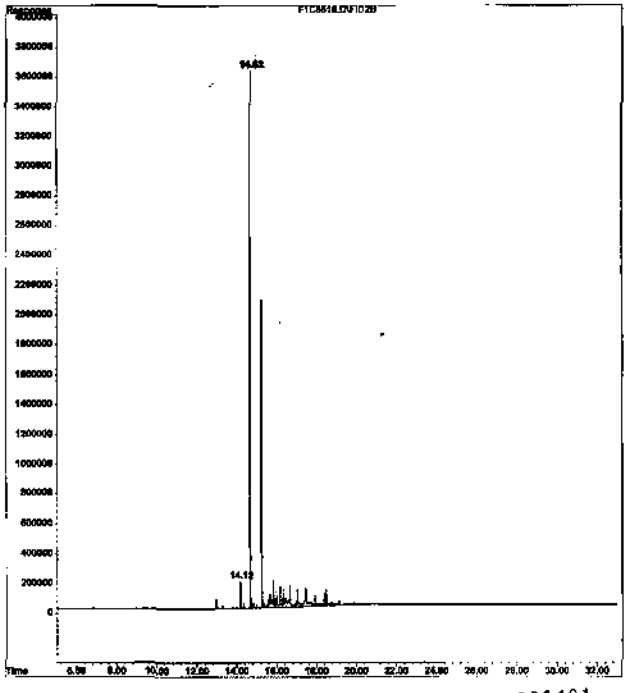
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.123	14.082	14.373	M	180649	2021627	1.69%	1.662%
2	14.617	14.462	20.022	M	3613957	119641627	100.00%	98.338%

Sum of corrected areas: 121663254

F1C6518.D ET0909R.M Wed Nov 27 15:26:08 2002 HPDOS9

1400

File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6518.D
Operator :
Acquired : 11-26-02 15:49:09 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-13C
Misc Info :
Vial Number: 5



001401

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6452.D Vial: 19
Acq On : 11-21-02 17:41:17 PM Operator:
Sample : A1627-14A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:08 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

Compound	*R.T.*	*Response*	*Conc Units*
Internal Standards			
1) I 5a-Androstane	14.65	41229303	40.000 ng
System Monitoring Compounds			
2) S para-Terphenyl	15.23	42150851	46.871 ng
Spiked Amount 50.000		Recovery =	93.74%
Target Compounds			
3) Nonane C9	0.00	0	N.D. ng d
4) DECANE C10	0.00	0	N.D. ng d
5) DODECANE C12	0.00	0	N.D. ng d
6) TETRADECANE C14	0.00	0	N.D. ng d
7) HEXADECANE C 16	0.00	0	N.D. ng d
8) OCTADECANE C18	0.00	0	N.D. ng d
9) NONADECANE C19	0.00	0	N.D. ng d
10) EICOSANE C20	0.00	0	N.D. ng d
11) DOCOSANE C22	0.00	0	N.D. ng d
12) TETRACOSANE C24	0.00	0	N.D. ng d
13) HEXACOSANE C26	0.00	0	N.D. ng d
14) OCTACOSANE C28	0.00	0	N.D. ng d
15) TRIACONTANE C30	0.00	0	N.D. ng d
16) HEXATRIACONTANE C36	0.00	0	N.D. ng

EMF
11/25/02

(f)=RT Delta > 1/2 Window (m)=manual
F1C6452.D ET0909R.M Mon Nov 25 11:08:44 2002 HPDOS9 Page 1

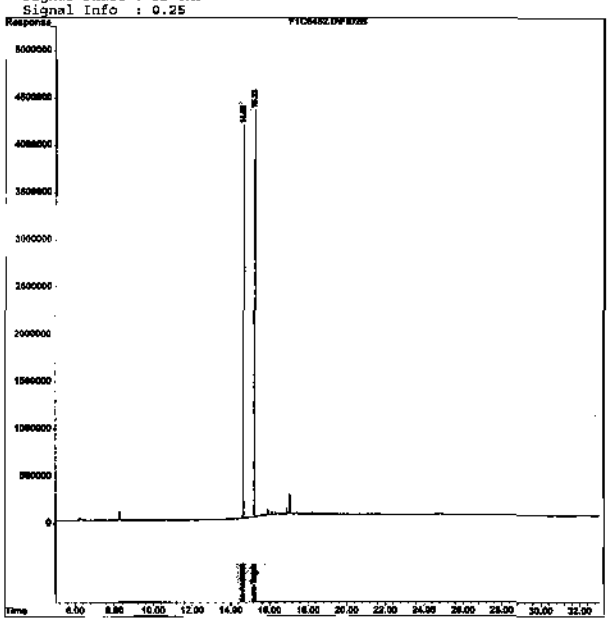
001402

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6452.D Vial: 19
Acq On : 11-21-02 17:41:17 PM Operator:
Sample : A1627-14A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:08 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6452.D Vial: 19
Acq On : 11-21-02 17:41:17 PM Operator:
Sample : A1627-14A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

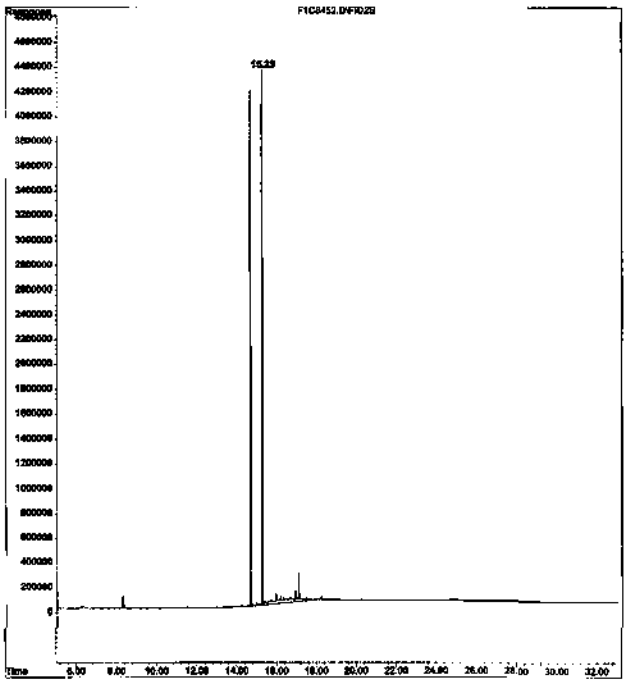
Signal : F1C6452.D\FID2B

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.232	14.230	17.841	M	4314945	121049495	100.00%	100.000%

Sum of corrected areaa: 121049495

F1C6452.D ET0909R.M Mon Nov 25 11:09:10 2002 HPDOS9

File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6452.D
Operator :
Acquired : 11-21-02 17:41:17 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-14A
Misc Info :
Vial Number: 19



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6453.D Vial: 20
Acq On : 11-21-02 17:41:18 PM Operator:
Sample : A1627-15A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 13:54 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	15.19	19321813	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.74	19201533	45.572	ng	
Spiked Amount	50.000	Recovery	=	91.14%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	
14)	OCTACOSANE C28	0.00	0	N.D.	ng	
15)	TRIACONTANE C30	0.00	0	N.D.	ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

BMF
11/26/02

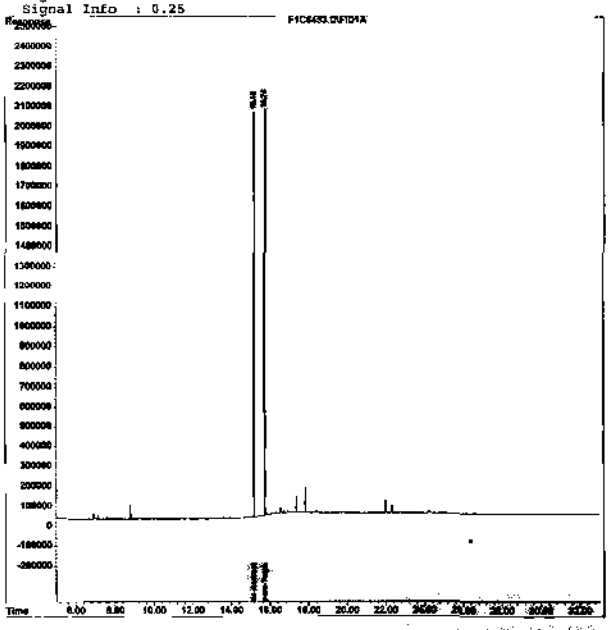
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6453.D Vial: 20
Acq On : 11-21-02 17:41:18 PM Operator:
Sample : A1627-15A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 13:54 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6453.D ET0909F.M Mon Nov 25 13:55:18 2002 HPDOS9 Page 2

00140[illegible]

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6453.D Vial: 20
Acq On : 11-21-02 17:41:18 PM Operator:
Sample : A1627-15A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6453.D\FID1A

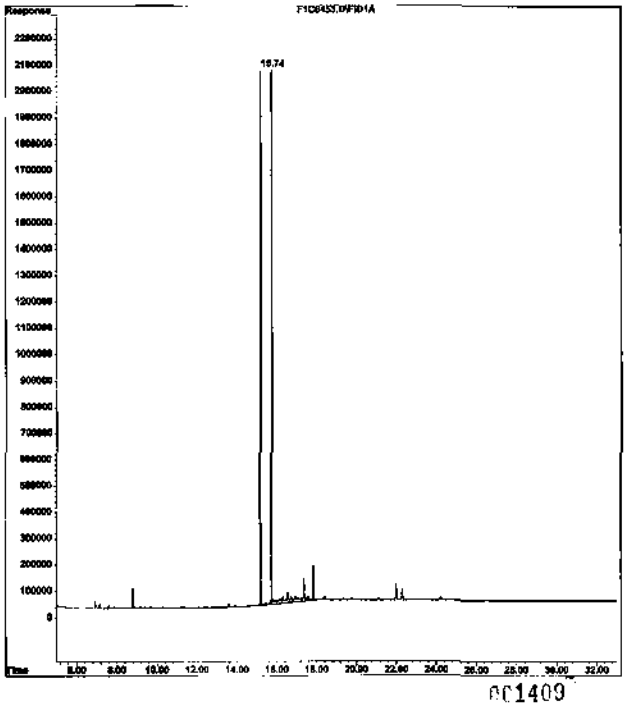
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.743	15.023	17.997	M	2037728	55616248	100.00%	100.000%

Sum of corrected areas: 55616248

F1C6453.D ET0909F.M Mon Nov 25 13:55:34 2002 HPDOS9

00[illegible]1408

File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6453.D
Operator :
Acquired : 11-21-02 17:41:18 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-15A
Misc Info :
Vial Number: 20



00[illegible]1409

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6460.D Vial: 21
Acq On : 11-21-02 20:30:44 PM Operator:
Sample : A1627-16A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:10 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I 5a-Androstane	14.65	42889044	40.000	ng	
	System Monitoring Compounds					
2)	S para-Terphenyl	15.23	42056153	44.956	ng	
Spiked Amount	50.000	Recovery	=	89.91%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	d
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMC
11/25/02

00[illegible]1410

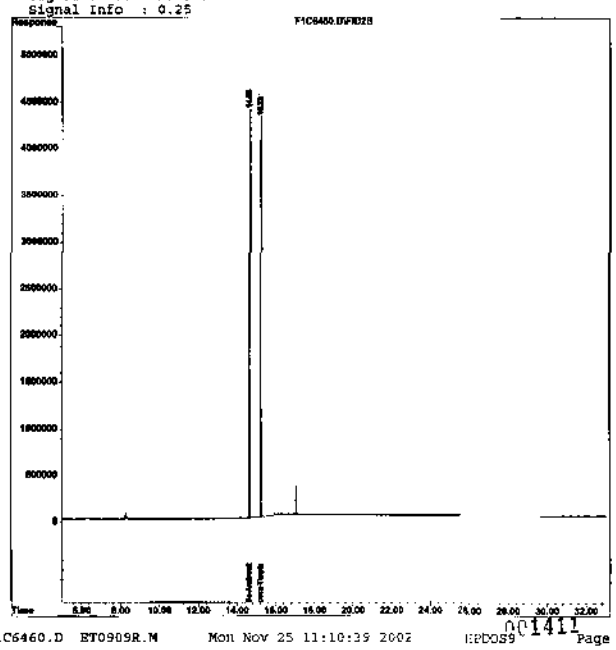
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6460.D ET0909R.M Mon Nov 25 11:10:32 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6460.D Vial: 21
Acq On : 11-21-02 20:30:44 PM Operator:
Sample : A1627-16A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:10 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001411

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6460.D Vial: 21
Acq On : 11-21-02 20:30:44 PM Operator:
Sample : A1627-16A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6460.D\FID2B

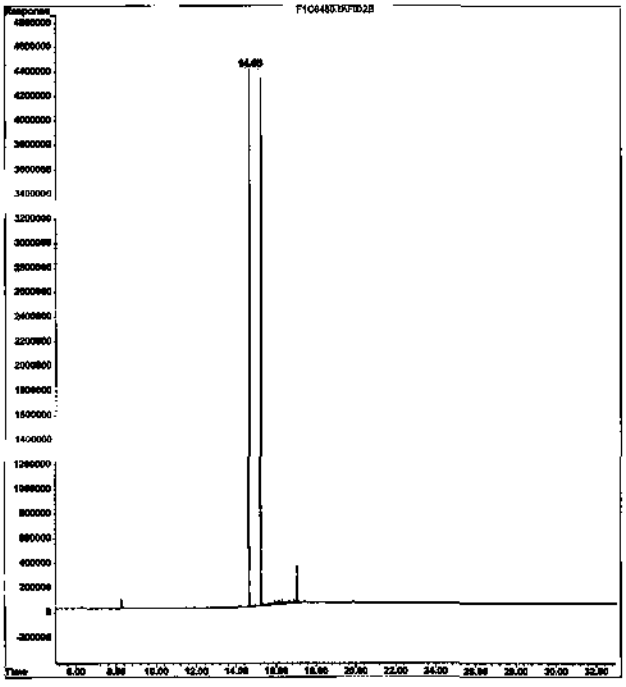
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.646	14.237	17.195	M	4374886	103928487	100.00%	100.000%

Sum of corrected areas: 103928487

F1C6460.D ET0909R.M Mon Nov 25 12:13:39 2002 HPDOS9

001412

File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6460.D
Operator :
Acquired : 11-21-02 20:30:44 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-16A
Misc Info :
Vial Number: 21



001413

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6461.D Vial: 22
Acq On : 11-21-02 20:30:44 PM Operator:
Sample : A1627-17A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:00 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	15.19	23517285	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.74	23163128	45.167	ng	
Spiked Amount	50.000	Recovery	=	90.33%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	
14)	OCTACOSANE C28	0.00	0	N.D.	ng	
15)	TRIACONTANE C30	0.00	0	N.D.	ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

11/25/02

(f)=RT Delta > 1/2 Window (m)=manual

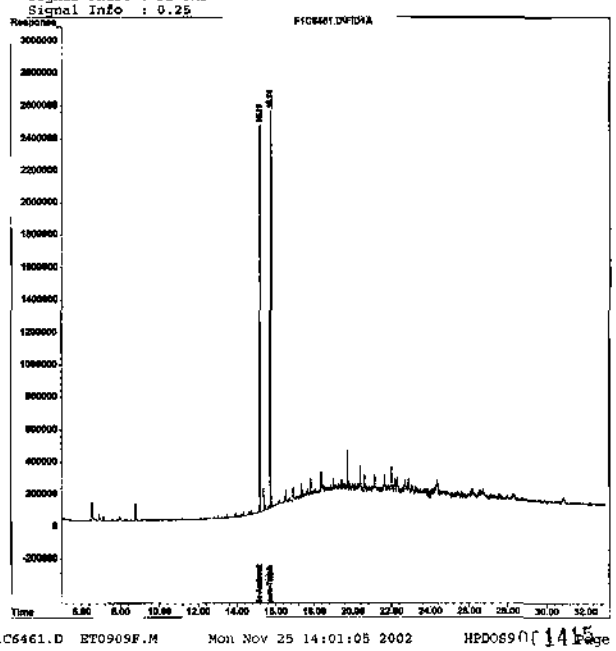
001414

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6461.D Vial: 22
Acq On : 11-21-02 20:30:44 PM Operator:
Sample : A1627-17A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:00 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6461.D ET0909F.M Mon Nov 25 14:01:05 2002 HPDOS9 Page 2

00141

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6461.D Vial: 22
Acq On : 11-21-02 20:30:44 PM Operator:
Sample : A1627-17A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6461.D\FID1A

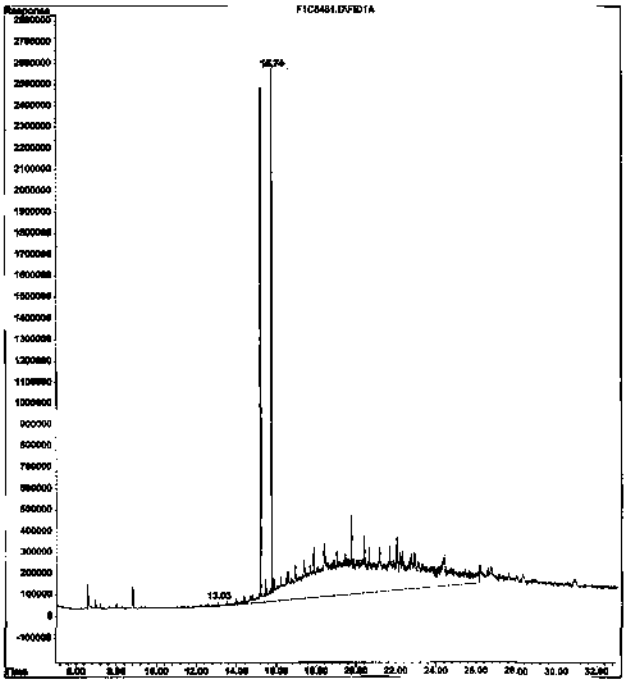
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	13.027	12.215	13.211	M	20799	1780307	0.24%	0.240%
2	15.744	13.285	26.132	M2508841		738902138	100.00%	99.760%

Sum of corrected areas: 740682445

F1C6461.D ET0909F.M Wed Nov 27 10:23:57 2002 HPDOS9

00141

File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6461.D
Operator :
Acquired : 11-21-02 20:30:44 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-17A
Misc Info :
Vial Number: 22



00141

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6462.D Vial: 23
Acq On : 11-21-02 21:14:49 PM Operator:
Sample : A1627-18A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:12 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:56 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.65	41548930	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.23	39038767	43.077	ng	
Spiked Amount	50.000	Recovery	=	86.15%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	d
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMC
11/25/02

(f)=RT Delta > 1/2 Window (m)=manual int
F1C6462.D ET0909R.M Mon Nov 25 11:12:19 2002 HPDOS9 Page 1

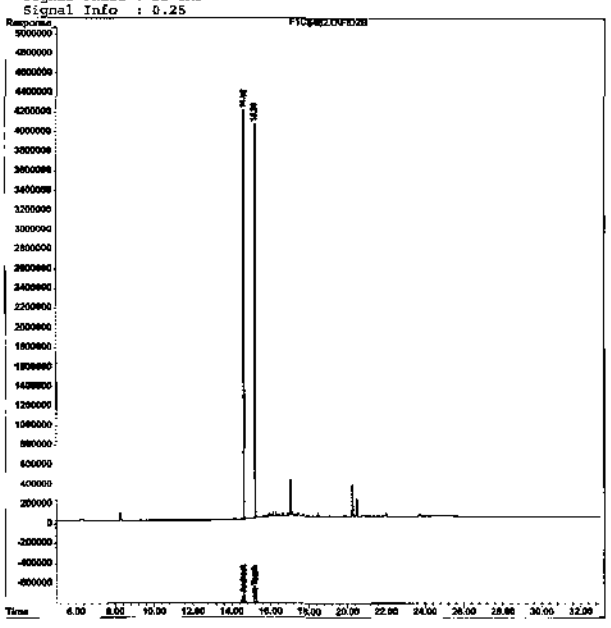
00141

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6462.D Vial: 23
Acq On : 11-21-02 21:14:49 PM Operator:
Sample : A1627-18A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:12 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6462.D ET0909R.M Mon Nov 25 11:12:26 2002 HPDOS9 Page 2

001419

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6462.D Vial: 23
Acq On : 11-21-02 21:14:49 PM Operator:
Sample : A1627-18A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6462.D\FID2B

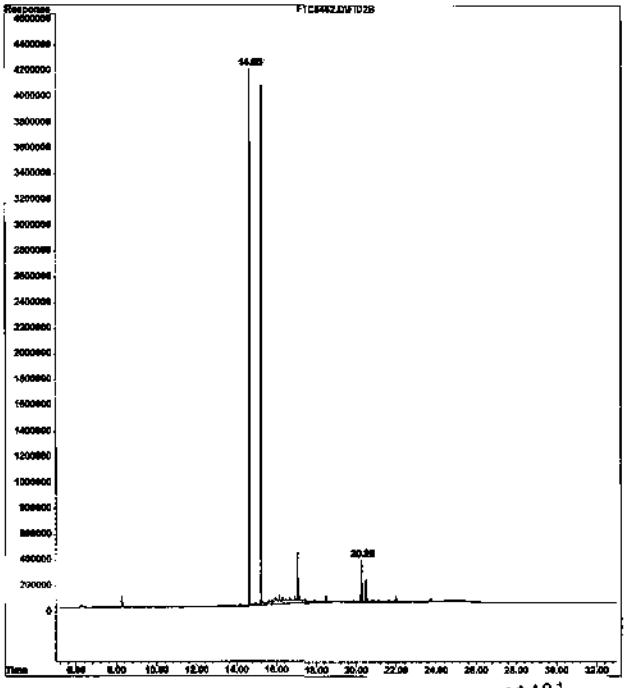
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.645	13.944	18.564	M	4177891	128421622	100.00%	84.743%
2	20.261	19.674	22.291	M	329157	23121494	18.00%	15.257%

Sum of corrected areas: 151543116

F1C6462.D ET0909R.M Mon Nov 25 11:12:48 2002 HPDOS9

001420

File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6462.D
Operator :
Acquired : 11-21-02 21:14:49 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-18A
Misc Info :
Vial Number: 23



001421

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\02112I\F1C6463.D Vial: 24
Acq On : 11-21-02 21:14:49 PM Operator:
Sample : A1627-19A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:02 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	15.19	18986953	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.75	19073969	46.068	ng	
Spiked Amount	50.000		Recovery =	92.14%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	
14)	OCTACOSANE C28	0.00	0	N.D.	ng	
15)	TRIACONTANE C30	0.00	0	N.D.	ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

EMF
11/25/02

(f)=RT Delta > 1/2 Window (m)=manual int
F1C6463.D ET0909F.M Mon Nov 25 14:02:33 2002 HPDOS9 Page 1

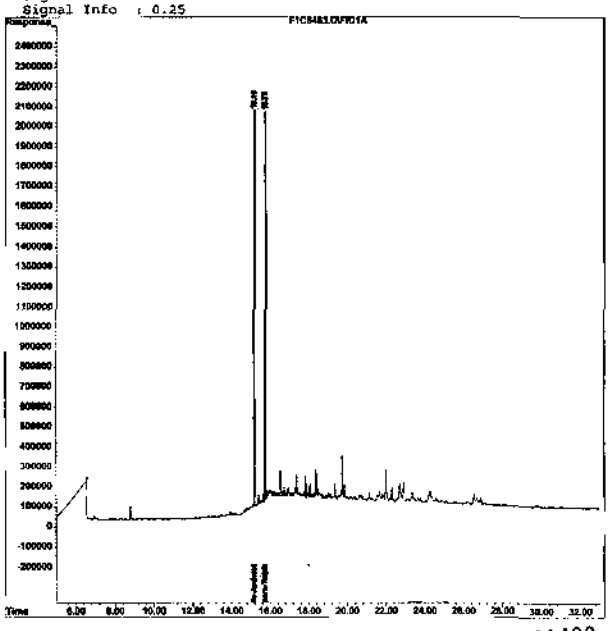
001422

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6463.D Vial: 24
Acq On : 11-21-02 21:14:49 PM Operator:
Sample : A1627-19A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:02 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6463.D ET0909F.M Mon Nov 25 14:02:36 2002 HPDOS9 001423 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6463.D Vial: 24
Acq On : 11-21-02 21:14:49 PM Operator:
Sample : A1627-19A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6463.D\FID1A

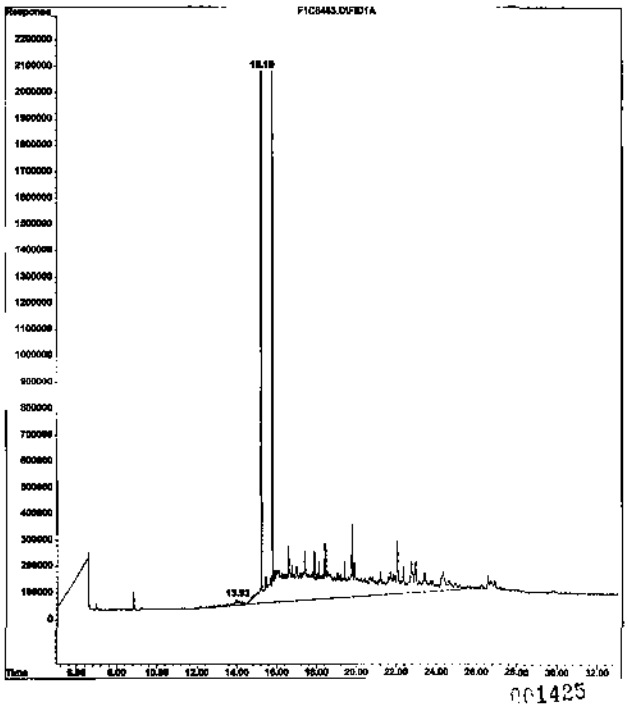
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	13.927	11.611	14.352	M	23180	5608351	1.23%	1.214%
2	15.188	14.403	25.699	M2023014	456182740	100.00%	98.786%	

Sum of corrected areas: 461791091

F1C6463.D ET0909F.M Wed Nov 27 10:27:44 2002 HPDOS9

001424

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6463.D
Operator :
Acquired : 11-21-02 21:14:49 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-19A
Misc Info :
Vial Number: 24



001425

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6464.D Vial: 25
Acq On : 11-21-02 21:57:10 PM Operator:
Sample : A1627-20A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:13 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.65	41502837	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.23	38576754	42.723	ng	
Spiked Amount	50.000	Recovery	=	85.45%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	d
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF
11/25/02

(f)=RT Delta > 1/2 Window (m)=manual int.

001426

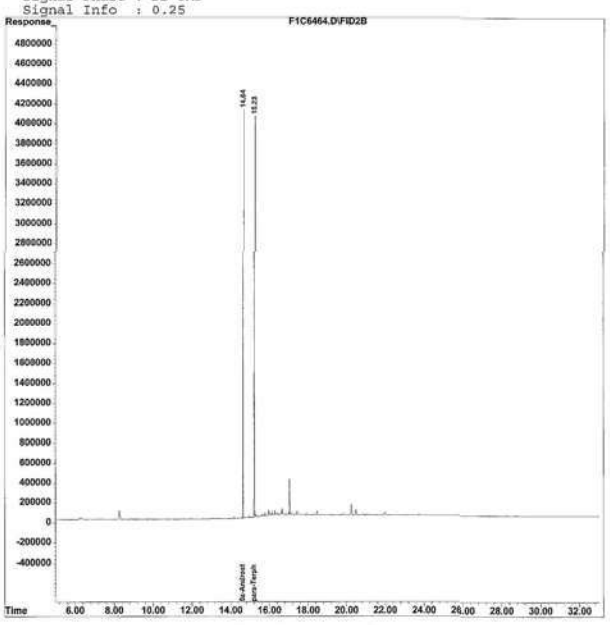
F1C6464.D ET0909R.M Mon Nov 25 11:14:04 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6464.D Vial: 25
Acq On : 11-21-02 21:57:10 PM Operator:
Sample : A1627-20A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:13 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6464.D ET0909R.M Mon Nov 25 11:14:11 2002 HPDOS9 Page 2

00142?

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6464.D Vial: 25
Acq On : 11-21-02 21:57:10 PM Operator:
Sample : A1627-20A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6464.D\FID2B

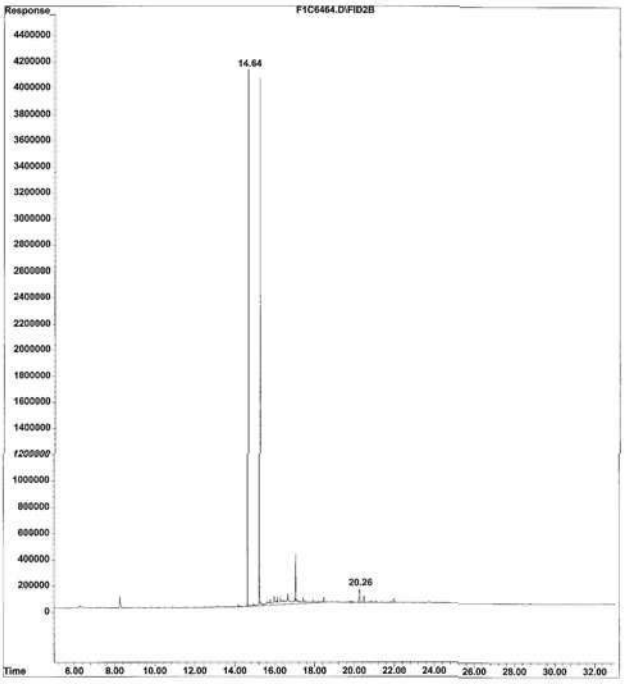
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.645	13.888	18.540	M	4101109	122195560	100.00%	91.591%
2	20.257	19.440	22.173	M	107110	11218788	9.18%	8.409%

Sum of corrected areas: 133414348

F1C6464.D ET0909R.M Mon Nov 25 11:14:35 2002 HPDOS9

001428

File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6464.D
Operator :
Acquired : 11-21-02 21:57:10 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-20A
Misc Info :
Vial Number: 25



001429

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6465.D Vial: 26
Acq On : 11-21-02 21:57:10 PM Operator:
Sample : A1627-21A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:03 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	15.19	20021213	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.75	18415291	42.179	ng	
Spiked Amount	50.000	Recovery	=	84.36%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	
14)	OCTACOSANE C28	0.00	0	N.D.	ng	
15)	TRIACONTANE C30	0.00	0	N.D.	ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

BMF
11/25/02

(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6465.D ET0909F.M Mon Nov 25 14:04:04 2002 HPDOS9 Page 1

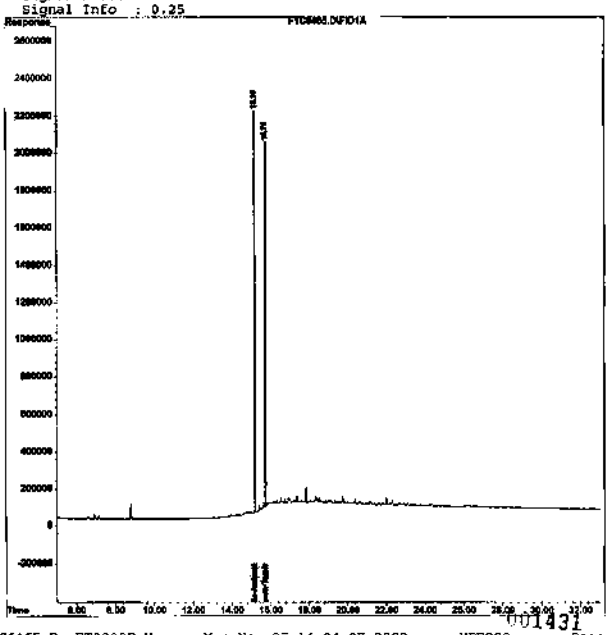
001430

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6465.D Vial: 26
Acq On : 11-21-02 21:57:10 PM Operator:
Sample : A1627-21A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:03 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Mulciple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001431

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6465.D Vial: 26
Acq On : 11-21-02 21:57:10 PM Operator:
Sample : A1627-21A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6465.D\FID1A

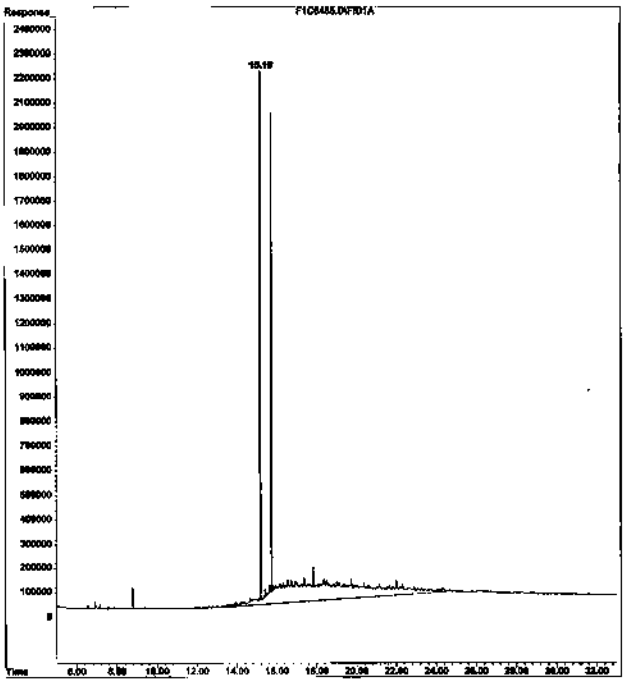
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.186	13.107	24.411	M	2181012	295390983	100.00%	100.000%

Sum of corrected areas: 295390983

F1C6465.D ET0909F.M Mon Nov 25 14:04:40 2002 HPDOS9

001432

File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6465.D
Operator :
Acquired : 21-21-02 21:57:10 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-21A
Misc Info :
Vial Number: 26



001433

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6466.D Vial: 27
Acq On : 11-21-02 22:39:02 PM Operator:
Sample : A1627-22A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:15 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.65	42668494	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.23	40005128	42.985	ng	
Spiked Amount	50.000	Recovery	=	85.97%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	d
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF
11/25/02

001434

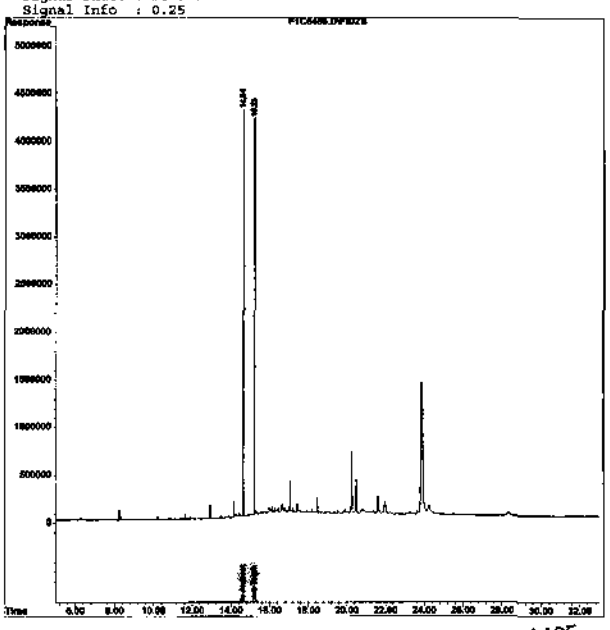
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6466.D Vial: 27
Acq On : 11-21-02 22:39:02 PM Operator:
Sample : A1627-22A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:15 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6466.D ET0909R.M Mon Nov 25 11:16:39 2002 HPDOS9 Page 2

00143[illegible]

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6466.D Vial: 27
Acq On : 11-21-02 22:39:02 PM Operator:
Sample : A1627-22A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6466.D\FID2B

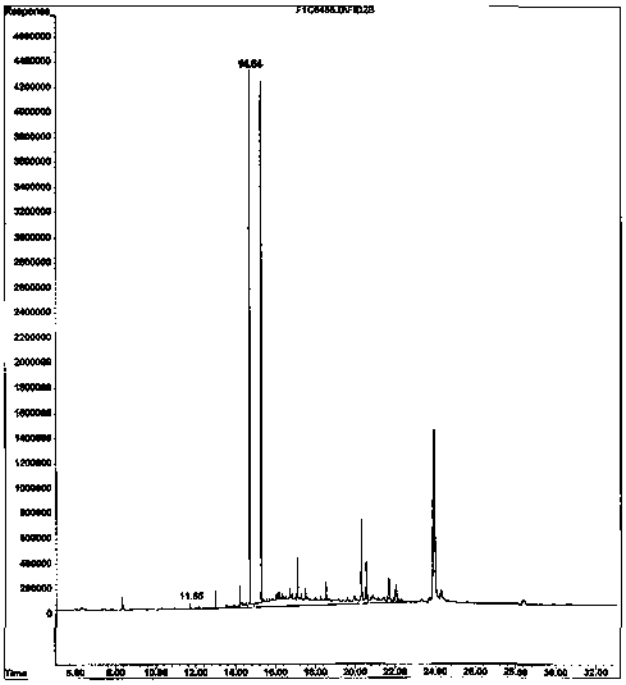
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	11.655	11.495	12.845	M	57803	4571197	1.38%	1.364%
2	14.645	12.880	22.379	M	4285003	330530882	100.00%	98.636%

Sum of corrected areas: 335102079

F1C6466.D ET0909F.M Wed Nov 27 10:31:06 2002 HPDOS9

00143[illegible]

File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6466.D
Operator :
Acquired : 11-21-02 22:39:02 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-22A
Misc Info :
Vial Number: 27



00143[illegible]

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6467.D Vial: 28
Acq On : 11-21-02 22:39:02 PM Operator:
Sample : A1627-23A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:05 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	15.19	20784518	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.74	20112714	44.376	ng	
Spikmd Amount	50.000	Recovery	=	88.75%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

11/25/02

(f)=RT Delta > 1/2 Window (m)=manual

00143[illegible]

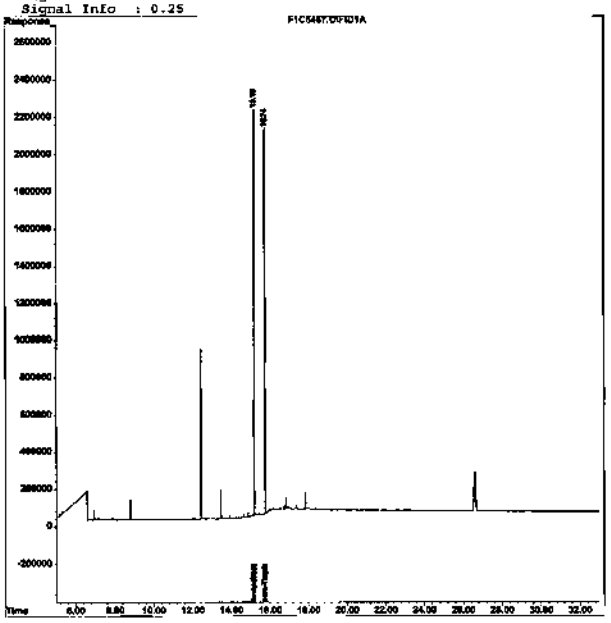
F1C6467.D ET0909F.M Mon Nov 25 14:05:39 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6467.D Vial: 28
Acq On : 11-21-02 22:39:02 PM Operator:
Sample : A1627-23A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:05 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6467.D ET0909F.M Mon Nov 25 14:05:43 2002 HPDOS9 Page 2

001439

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6467.D Vial: 28
Acq On : 11-21-02 22:39:02 PM Operator:
Sample : A1627-23A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6467.D\FID1A

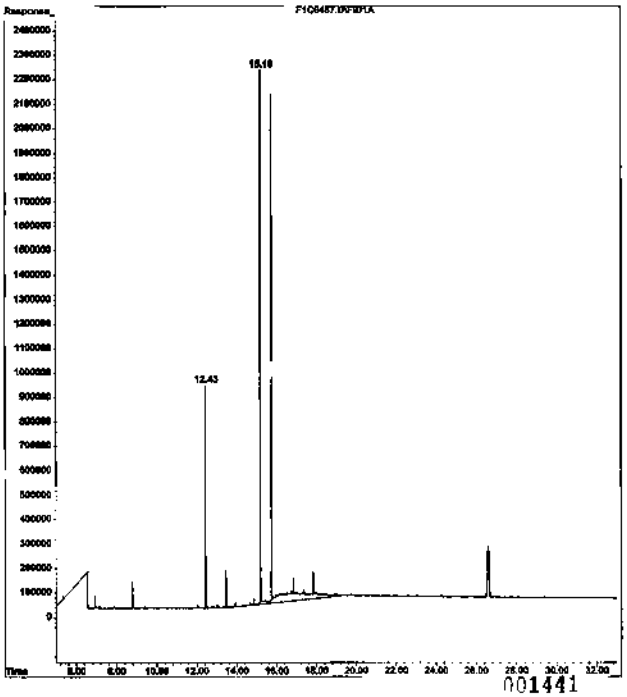
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	12.426	12.260	13.561	M	914233	12632181	13.80%	12.124%
2	15.187	13.587	19.151	M	2192633	91561619	100.00%	87.876%

Sum of corrected areas: 104193770

F1C6467.D ET0909F.M Wed Nov 27 10:37:02 2002 HPDOS9

001440

File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6467.D
Operator :
Acquired : 11-21-02 22:39:02 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-23A
Misc Info :
Vial Number: 28



001441

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6527.D Vial: 14
Acq On : 11-26-02 18:38:24 PM Operator:
Sample : A1627-24A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 9:10 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units	
	Internal Standards				
1)	I 5a-Androstane	15.19	22960349	40.000 ng	
	System Monitoring Compounds				
2)	S para-Terphenyl	15.70	17061841	34.077 ng	
Spiked Amount	50.000	Recovery	=	68.15%	
	Target Compounds				
3)	Nonane C9	0.00	0	N.D. ng	
4)	DECANE C10	0.00	0	N.D. ng	
5)	DODECANE C12	0.00	0	N.D. ng	
6)	TETRADECANE C14	0.00	0	N.D. ng	d
7)	HEXADECANE C 16	0.00	0	N.D. ng	d
8)	OCTADECANE C18	0.00	0	N.D. ng	d
9)	NONADECANE C19	0.00	0	N.D. ng	d
10)	EICOSANE C20	0.00	0	N.D. ng	d
11)	DOCOSANE C22	0.00	0	N.D. ng	d
12)	TETRACOSANE C24	0.00	0	N.D. ng	d
13)	HEXACOSANE C26	0.00	0	N.D. ng	d
14)	OCTACOSANE C28	0.00	0	N.D. ng	d
15)	TRIACONTANE C30	0.00	0	N.D. ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D. ng	d

BMF
11/27/02

001442

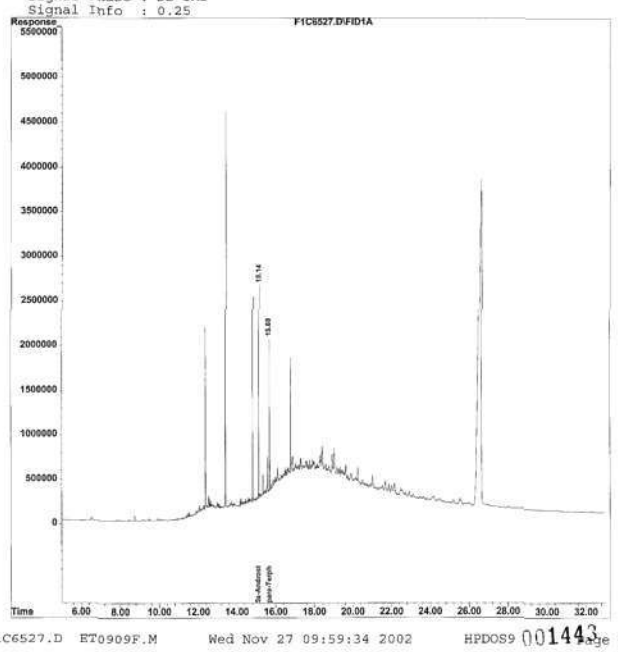
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6527.D ET0909F.M Wed Nov 27 09:59:30 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6527.D Vial: 14
Acq On : 11-26-02 18:38:24 PM Operator:
Sample : A1627-24A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 9:10 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6527.D Vial: 14
Acq On : 11-26-02 18:38:24 PM Operator:
Sample : A1627-24A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : *O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)*
Title : TPH-GC, Fuel ID, DRO

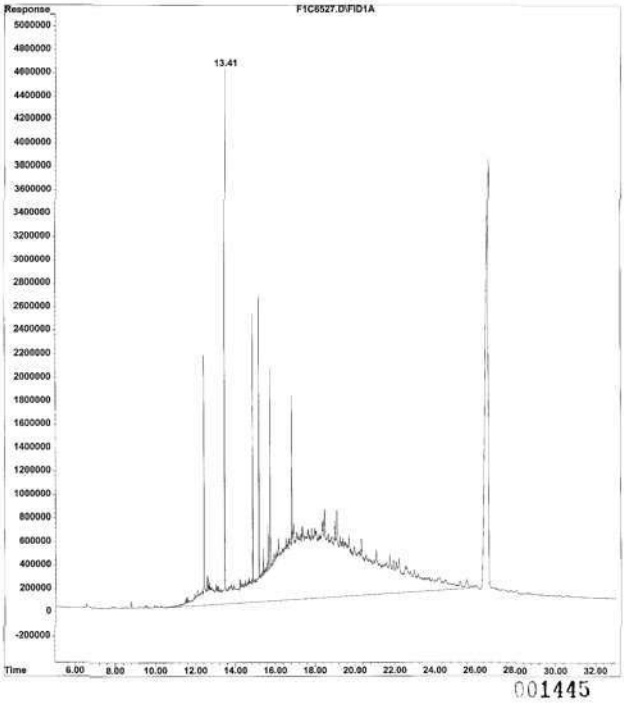
Signal : F1C6527.D\FID1A

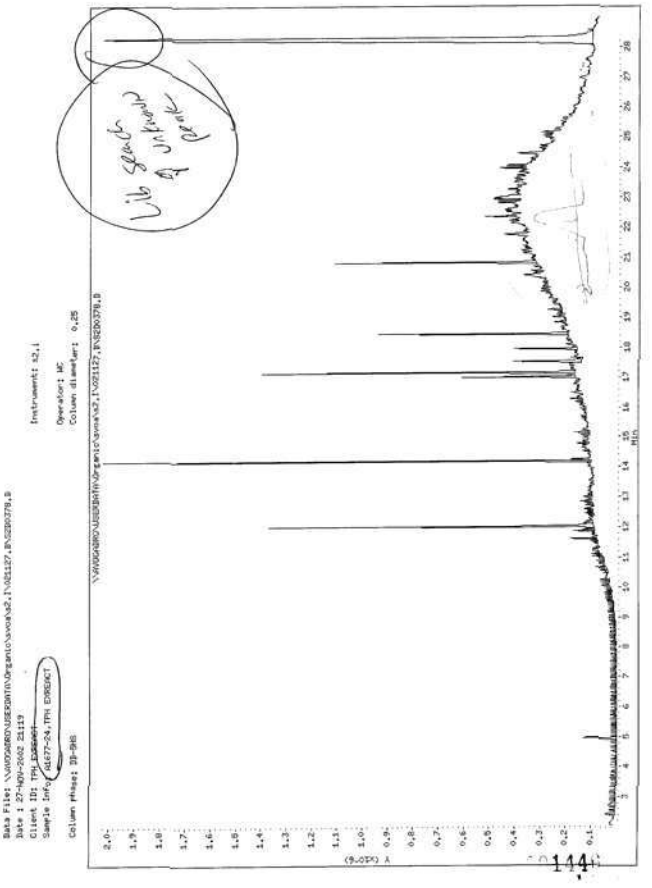
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	13.414	10.387	25.681	M	4566763	2316192731	100.00%	100.000%

Sum of corrected areas: 2316192731

F1C6527.D ET0909F.M Wed Nov 27 10:37:56 2002 HPDOS9

File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6527.D
Operator :
Acquired : 11-26-02 18:38:24 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-24A
Misc Info :
Vial Number: 14



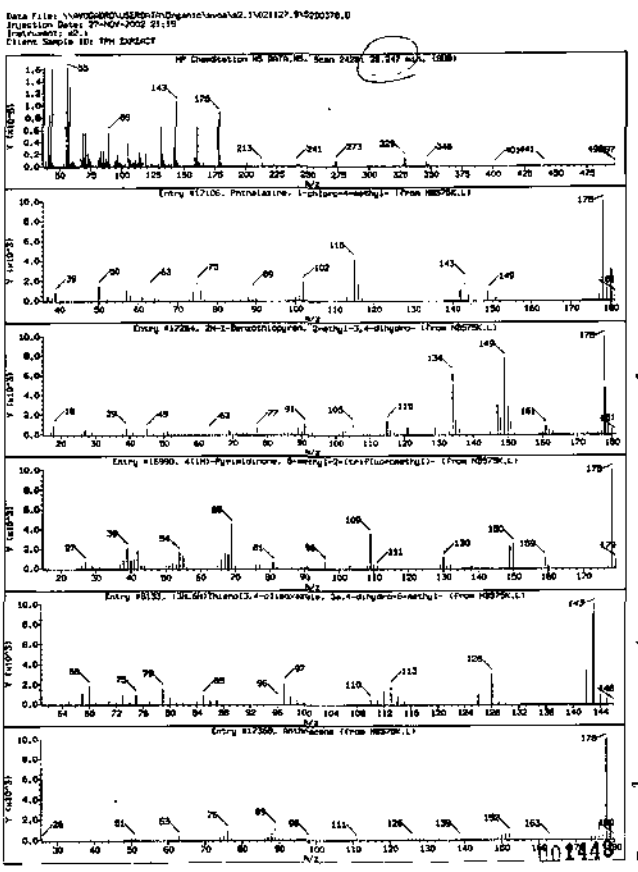


Data File: \\AVOGADRO\USERDATA\Organic\svoa\62.I\021127.B\S2D0378.D
Spectrum: HP ChemStation MS DATA.MS, Scan 2428: 28.247 min. (SUB)
Library: \\AVOGADRO\USERDATA\Organic\DATABASE\NBS75K.L

#	Match Quality	Entry Number	CAS Number	Name
1	12	17106	19064-68-7	Phthalazine, 1-chloro-4-methyl-
2	12	17264	54549-73-4	2H-1-Benzothiopyran, 2-ethyl-3,4-dihydro
3	11	16990	2557-79-1	4(1H)-Pyrimidinone, 6-methyl-2-(trifluor
4	11	8133	0-00-0	(3H,6H)Thieno[3,4-c]isoxazole, 3a,4-dihy
5	10	17368	120-12-7	Anthracene
6	10	66259	491-35-0	Quinoline, 4-methyl-
7	10	68650	501-65-5	Diphenylethyne
8	10	17038	50473-86-4	Imidazo[5,1-f][1,2,4]triazine-2,7-diamin
9	10	66266	91-63-4	Quinoline, 2-methyl-
10	10	68642	85-01-8	Phenanthrene
11	10	68644	85-01-8	Phenanthrene
12	10	68594	830-09-1	2-Propenoic acid, 3-(4-methoxyphenyl)-
13	10	17370	501-65-5	Diphenylethyne
14	9	8226	612-60-2	Quinoline, 7-methyl-
15	9	66269	611-32-5	Quinoline, 8-methyl-
16	9	66268	611-32-5	Quinoline, 8-methyl-
17	9	8227	611-32-5	Quinoline, 8-methyl-
18	9	16984	137-19-9	1,3-Benzenediol, 4,6-dichloro-
19	9	66262	91-62-3	Quinoline, 6-methyl-
20	9	8216	54004-38-5	Isoquinoline, 7-methyl-

NO Good Match in EPA/NBS/NIST Mstl
Special database.

001447



001448

No Good Match

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6519.D Vial: 6
Acq On : 11-26-02 15:49:09 PM Operator:
Sample : A1627-25C Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 15:36 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemcation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

Compound	R.T.	Response	Conc	Units	
Internal Standards					
1) I 5a-Androstane	15.13	19853934	40.000	ng	
System Monitoring Compounds					
2) S para-Terphenyl	15.69	15470782	35.734	ng	
Spiked Amount 50.000		Recovery =	71.47%		
Target Compounds					
3) Nonane C9	0.00	0	N.D.	ng	
4) DECANE C10	0.00	0	N.D.	ng	
5) DODECANE C12	0.00	0	N.D.	ng	
6) TETRADECANE C14	0.00	0	N.D.	ng	
7) HEXADECANE C 16	0.00	0	N.D.	ng	
8) OCTADECANE C18	0.00	0	N.D.	ng	
9) NONADECANE C19	0.00	0	N.D.	ng	
10) EICOSANE C20	0.00	0	N.D.	ng	d
11) DOCOSANE C22	0.00	0	N.D.	ng	d
12) TETRACOSANE C24	0.00	0	N.D.	ng	d
13) HEXACOSANE C26	0.00	0	N.D.	ng	
14) OCTACOSANE C28	0.00	0	N.D.	ng	
15) TRIACONTANE C30	0.00	0	N.D.	ng	
16) HEXATRIACONTANE C36	0.00	0	N.D.	ng	

BM
11/27/02

001449

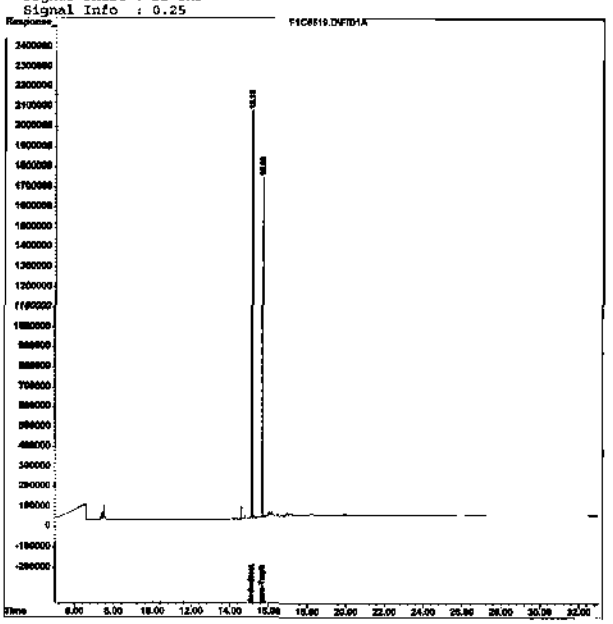
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6519.D ET0909F.M Wed Nov 27 15:37:05 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6519.D Vial: 6
Acq On : 11-26-02 15:49:09 PM Operator:
Sample : A1627-25C Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 15:36 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemcation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6519.D ET0909F.M Wed Nov 27 15:37:09 2002 HPDOS9 001450 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6519.D Vial: 6
Acq On : 11-26-02 15:49:09 PM Operator:
Sample : A1627-25C Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6519.D\FID1A

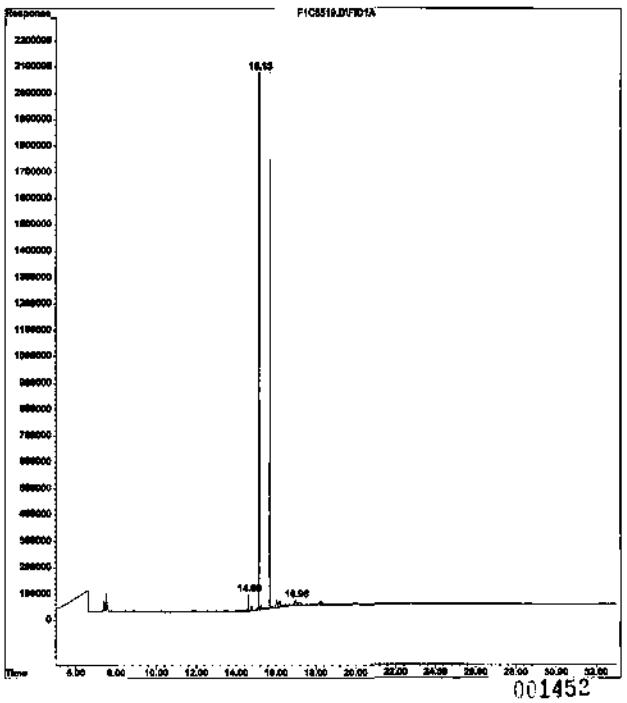
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.598	14.572	14.801	M	62377	738661	1.62%	1.604%
2	15.134	14.995	16.794	M	2043036	40628197	100.00%	88.229%
3	16.976	16.811	18.639	M	20992	4681917	11.52%	10.167%

Sum of corrected areas: 46048774

F1C6519.D ET0909F.M Wed Nov 27 15:38:34 2002 HPDOS9

001451

File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6519.D
Operator :
Acquired : 11-26-02 15:49:09 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-25C
Misc Info :
Vial Number: 6



001452

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6469.D Vial: 30
Acq On : 11-21-02 23:22:35 PM Operator:
Sample : A1627-26A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:06 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	13.19	17156670	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.75	16512896	43.635	ng	
Spiked Amount	50.000		Recovery =	87.27%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	
14)	OCTACOSANE C28	0.00	0	N.D.	ng	
15)	TRIACONTANE C30	0.00	0	N.D.	ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

BMF 11/25/02

001453

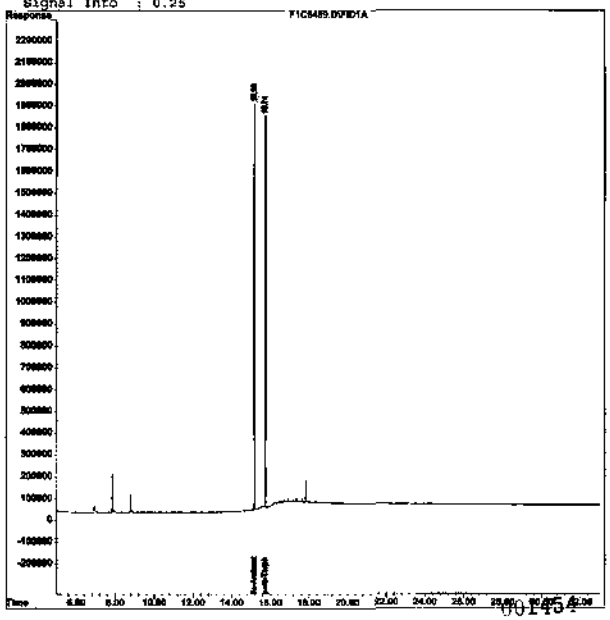
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6469.D ET0909F.M Mon Nov 25 14:07:11 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6469.D Vial: 30
Acq On : 11-21-02 23:22:35 PM Operator:
Sample : A1627-26A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:06 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001454

F1C6469.D ET0909F.M Mon Nov 25 14:07:15 2002 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6469.D Vial: 30
Acq On : 11-21-02 23:22:35 PM Operator:
Sample : A1627-26A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6469.D\FID1A

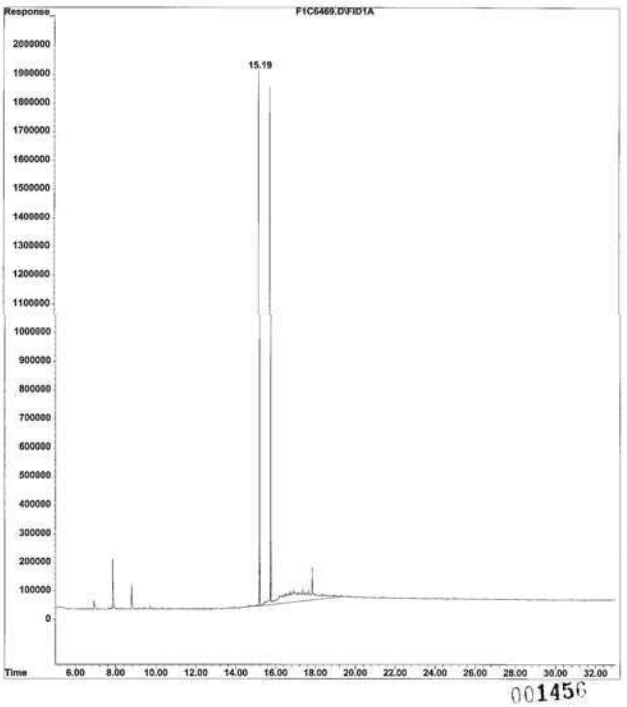
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.187	15.010	19.178	M	1865439	77592927	100.00%	100.000%

Sum of corrected areas: 77592927

F1C6469.D ET0909F.M Mon Nov 25 14:07:34 2002 HPDOS9

001455

File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6469.D
Operator :
Acquired : 11-21-02 23:22:35 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-26A
Misc Info :
Vial Number: 30



001456

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6470.D Vial: 31
Acq On : 11-22-02 0:04:47 PM Operator:
Sample : A1627-27A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:18 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.65	42052577	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.23	39133640	42.664	ng	
Spiked Amount	50.000		Recovery =	85.33%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	d
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF
11/25/02

(f)=RT Delta > 1/2 Window (m)=manual int
F1C6470.D ET0909R.M Mon Nov 25 11:19:11 2002 HPDOS9 Page 1

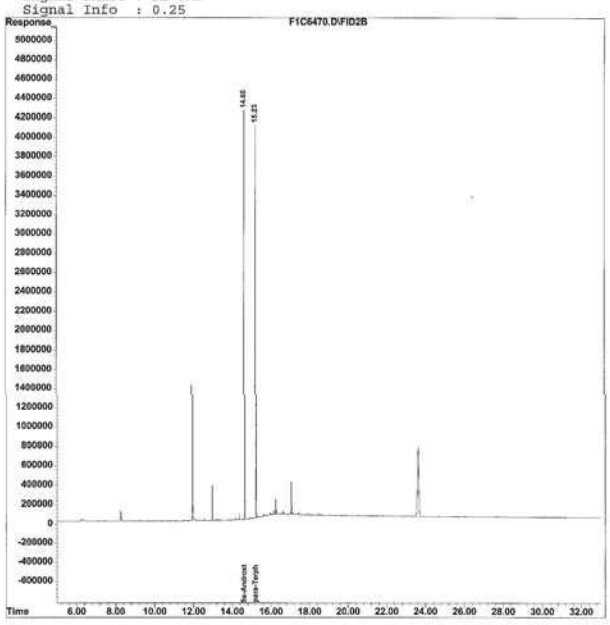
001457

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6470.D Vial: 31
Acq On : 11-22-02 0:04:47 PM Operator:
Sample : A1627-27A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:18 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6470.D ET0909R.M Mon Nov 25 11:19:18 2002 HPDOS9 Page 2

001458

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6470.D Vial: 31
Acq On : 11-22-02 0:04:47 PM Operator:
Sample : A1627-27A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6470.D\FID2B

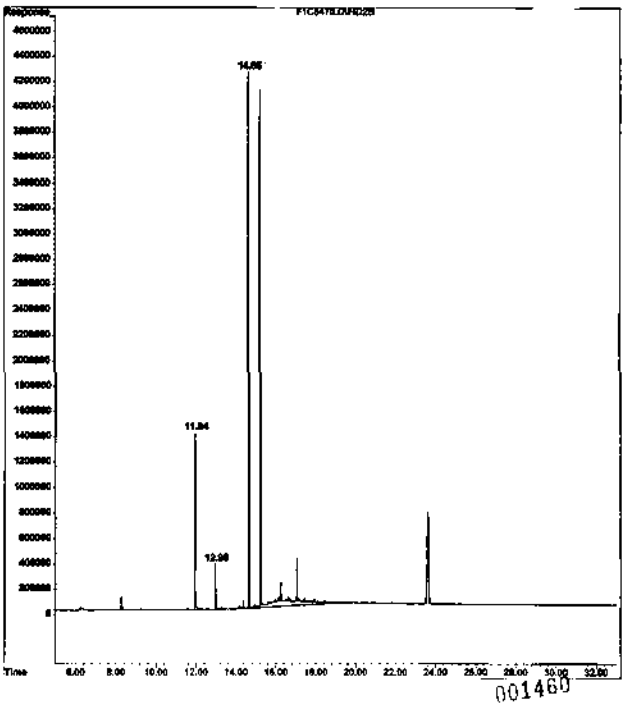
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	11.940	11.881	12.858	M	1397929	16974408	10.90%	9.523%
2	12.962	12.867	13.666	M	361963	5543076	3.56%	3.110%
3	14.646	13.730	19.231	M	4232232	155737795	100.00%	87.368%

Sum of corrected areas: 178255279

F1C6470.D ET0909F.M Wed Nov 27 11:35:47 2002 HPDOS9

001459

File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6470.D
Operator :
Acquired : 11-22-02 0:04:47 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-27A
Misc Info :
Vial Number: 31



001460

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6471.D Vial: 32
Acq On : 11-22-02 0:04:48 PM Operator:
Sample : A1627-28A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:08 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	15.19	19294637	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.75	19516928	46.387	ng	
Spiked Amount	50.000		Recovery =	92.77%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BNF 11/25/02

(F)=RT Delta > 1/2 Window (m)=manual int.
F1C6471.D ET0909F.M Mon Nov 25 14:08:29 2002 HPDOS9 Page 1

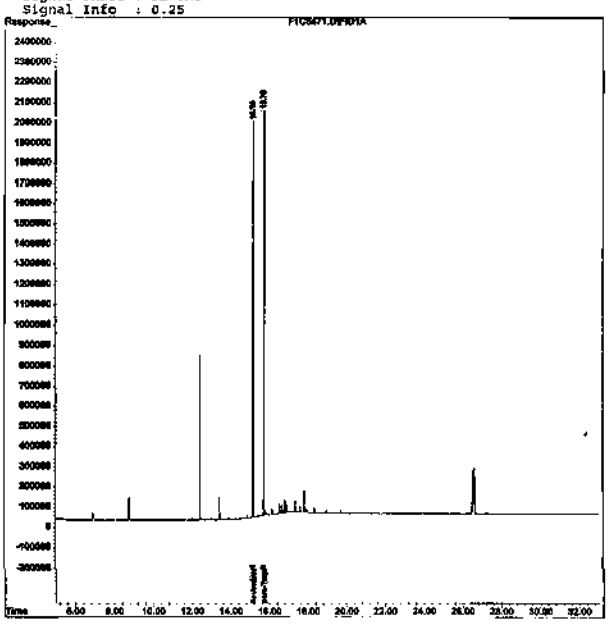
001461

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\02I121\F1C6471.D Vial: 32
Acq On : 11-22-02 0:04:48 PM Operator:
Sample : A1627-28A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:08 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6471.D ET0909F.M Mon Nov 25 14:08:33 2002 HPDOS9 Page 2

001462

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6471.D Vial: 32
Acq On : 11-22-02 0:04:48 PM Operator:
Sample : A1627-28A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6471.D\FID1A

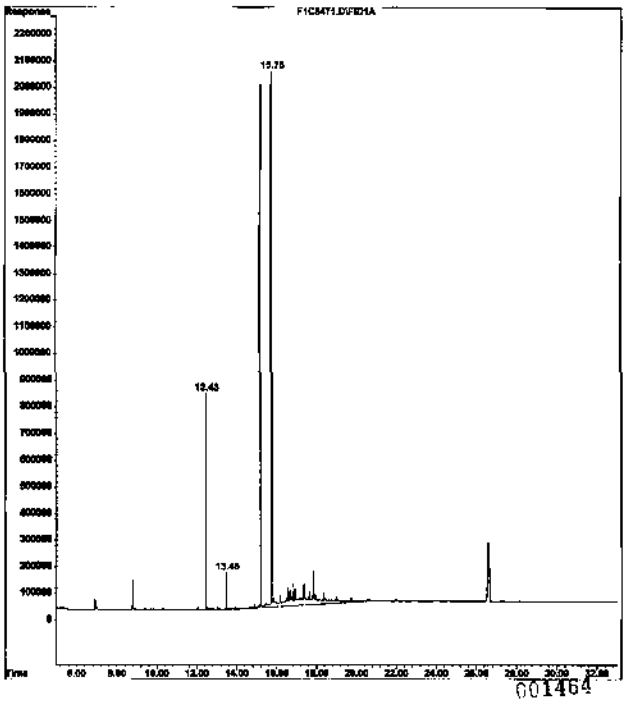
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	12.427	11.799	13.337	M	814587	9392429	10.22%	9.052%
2	13.460	13.365	14.179	M	140870	2455342	2.67%	2.366%
3	15.746	14.224	20.543	M	2018376	91914933	100.00%	88.582%

Sum of corrected areas: 103762704

F1C6471.D ET0909F.M Wed Nov 27 11:37:55 2002 HPDOS9

001463

File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6471.D
Operator :
Acquired : 11-22-02 0:04:48 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-28A
Misc Info :
Vial Number: 32



001464

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6472.D Vial: 33
Acq On : 11-22-02 0:46:41 PM Operator:
Sample : A1627-29A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:20 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I 5a-Androstane	14.65	44167584	40.000	ng	
	System Monitoring Compounds					
2)	S para-Terphenyl	15.23	41419588	42.994	ng	
Spiked Amount 50.000		Recovery =		85.99%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	d
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BNF
4/25/02

(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6472.D ET0909R.M Mon Nov 25 11:21:13 2002 HPDOS9 Page 1

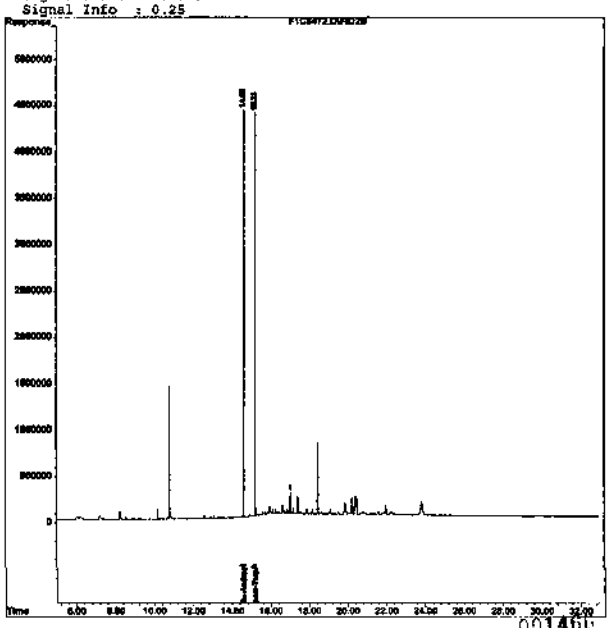
001465

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6472.D Vial: 33
Acq On : 11-22-02 0:46:41 PM Operator:
Sample : A1627-29A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:20 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6472.D ET0909R.M Mon Nov 25 11:21:20 2002 HPDOS9 Page 2

001466

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6472.D Vial: 33
Acq On : 11-22-02 0:46:41 PM Operator:
Sample : A1627-29A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6472.D\FID2B

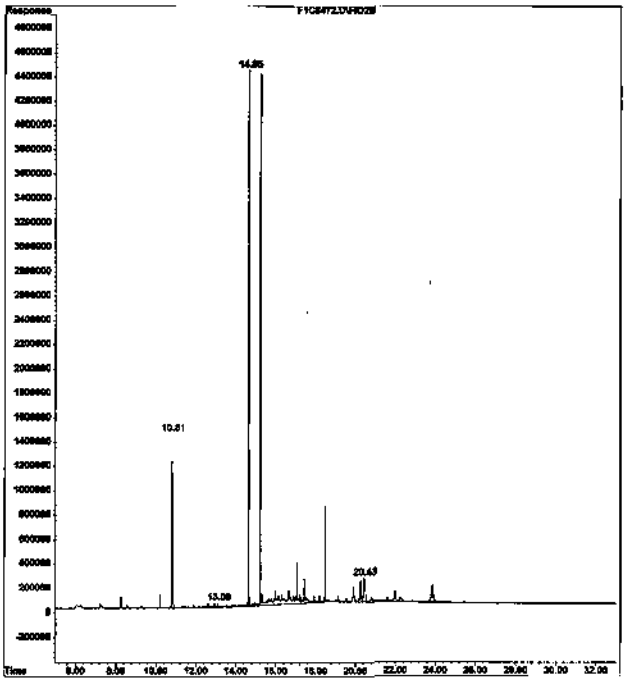
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	10.807	10.623	12.214	M	1437992	23081694	13.67%	8.930%
2	13.092	12.264	14.478	M	37500	7452305	4.41%	2.883%
3	14.647	14.527	18.555	M	4407601	168898404	100.00%	65.342%
4	20.432	18.580	24.548	M	199461	59051095	34.96%	22.845%

Sum of corrected areas: 258483497

F1C6472.D ET0909R.M Mon Nov 25 12:20:00 2002 HPDOS9

001467

File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6472.D
Operator :
Acquired : 11-22-02 0:46:41 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-29A
Misc Info :
Vial Number: 33



001468

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6473.D Vial: 34
Acq On : 11-22-02 0:46:41 PM Operator:
Sample : A1627-30A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:09 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I 5a-Androstane	15.19	18764653	40.000	ng	
	System Monitoring Compounds					
2)	S para-Terphenyl	15.75	18582924	44.935	ng	
Spiked Amount	50.000	Recovery	=	89.87%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	
14)	OCTACOSANE C28	0.00	0	N.D.	ng	
15)	TRIACONTANE C30	0.00	0	N.D.	ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

BMF
11/25/02

(f)=RT Delta > 1/2 Window (m)=manual
F1C6473.D ET0909F.M Mon Nov 25 14:09:48 2002 HPDOS9 Page 1

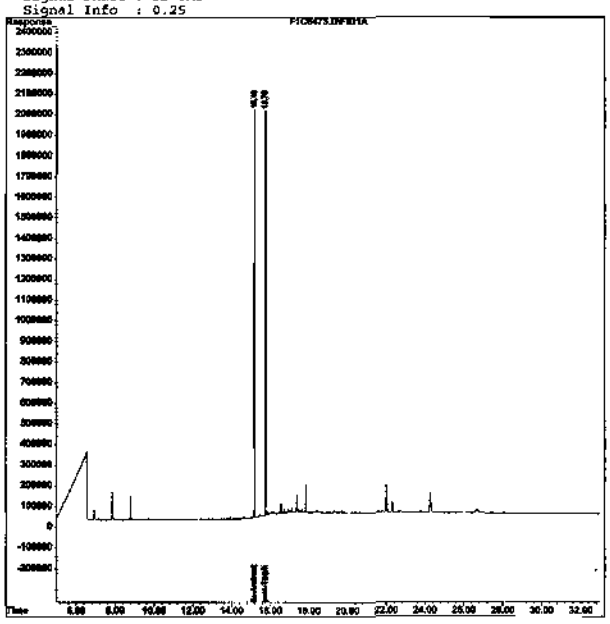
001469

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6473.D Vial: 34
Acq On : 11-22-02 0:46:41 PM Operator:
Sample : A1627-30A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:09 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6473.D ET0909F.M Mon Nov 25 14:09:52 2002 HPDOS9 Page 2

001470

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6473.D Vial: 34
Acq On : 11-22-02 0:46:41 PM Operator:
Sample : A1627-30A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6473.D\FID1A

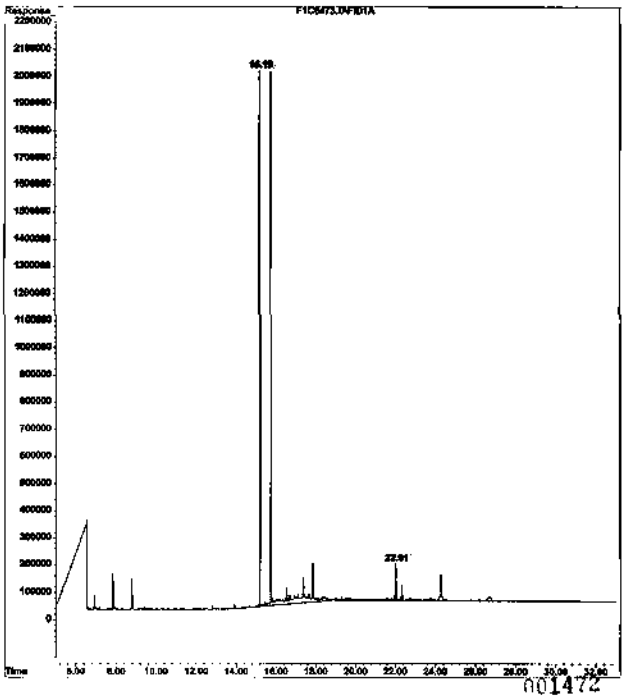
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.187	13.226	18.797	M	1979667	71161261	100.00%	74.671%
2	22.009	18.938	27.248	M	135145	24139019	33.92%	25.329%

Sum of corrected areas: 95300280

F1C6473.D ET0909F.M Mon Nov 25 14:10:12 2002 HPDOS9

001471

File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6473.D
Operator :
Acquired : 11-22-02 0:46:41 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-30A
Misc Info :
Vial Number: 34



001472

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6474.D Vial: 35
Acq On : 11-22-02 1:30:10 PM Operator:
Sample : A1627-31A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:24 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

Compound	R.T.	Response	Conc	Units	
Internal Standards					
1) I 5a-Androstane	14.65	41293426	40.000	ng	
System Monitoring Compounds					
2) S para-Terphenyl	15.23	39549618	43.910	ng	
Spiked Amount 50.000		Recovery =	87.82%		
Target Compounds					
3) Nonane C9	0.00	0	N.D.	ng	d
4) DECANE C10	0.00	0	N.D.	ng	d
5) DODECANE C12	0.00	0	N.D.	ng	d
6) TETRADECANE C14	0.00	0	N.D.	ng	d
7) HEXADECANE C 16	0.00	0	N.D.	ng	d
8) OCTADECANE C18	0.00	0	N.D.	ng	d
9) NONADECANE C19	0.00	0	N.D.	ng	d
10) EICOSANE C20	0.00	0	N.D.	ng	d
11) DOCOSANE C22	0.00	0	N.D.	ng	d
12) TETRACOSANE C24	0.00	0	N.D.	ng	d
13) HEXACOSANE C26	0.00	0	N.D.	ng	d
14) OCTACOSANE C28	0.00	0	N.D.	ng	d
15) TRIACONTANE C30	0.00	0	N.D.	ng	d
16) HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF
11/25/02

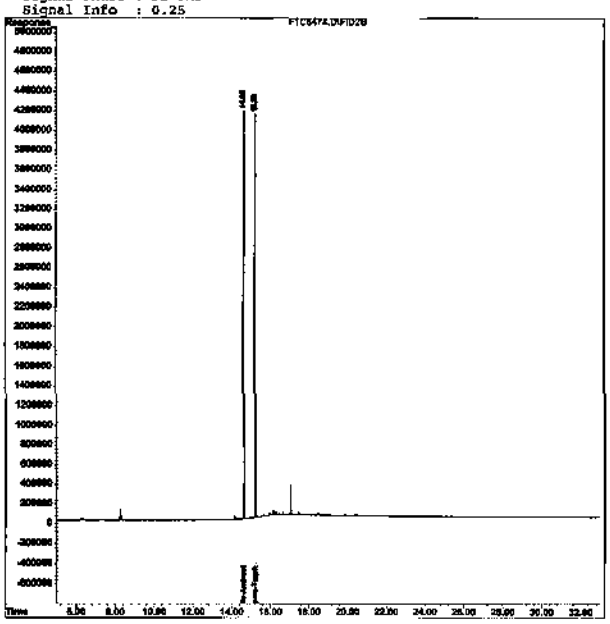
(f)=RT Delta > 1/2 Window (m)=manual int
F1C6474.D ET0909R.M Mon Nov 25 11:24:24 2002 HPDOS9 001473 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6474.D Vial: 35
Acq On : 11-22-02 1:30:10 PM Operator:
Sample : A1627-31A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:24 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6474.D ET0909R.M Mon Nov 25 11:24:31 2002 HPDOS9 001474 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6474.D Vial: 35
Acq On : 11-22-02 1:30:10 PM Operator:
Sample : A1627-31A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6474.D\FID2B

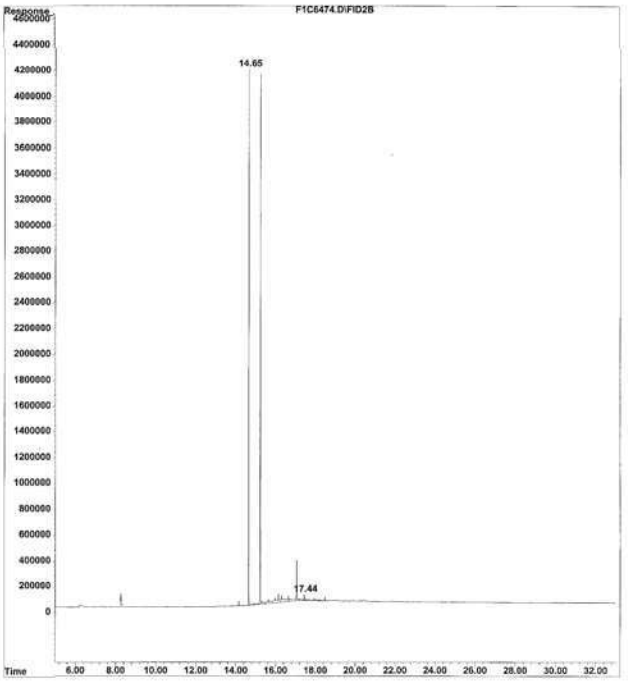
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.646	14.331	17.274	M	4160118	105669960	100.00%	95.664%
2	17.443	17.320	18.609	M	42391	4789438	4.53%	4.336%

Sum of corrected areas: 110459398

F1C6474.D ET0909R.M Mon Nov 25 11:24:57 2002 HPDOS9

001475

File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6474.D
Operator :
Acquired : 11-22-02 1:30:10 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-31A
Misc Info :
Vial Number: 35



001476

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6528.D Vial: 15
Acq On : 11-26-02 19:20:31 PM Operator:
Sample : A1627-32A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 11:49 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.62	46823668	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.20	33630532	32.929	ng	
Spiked Amount	50.000	Recovery	=	65.86%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	d
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF
11/27/02

(f)=RT Delta > 1/2 Window (m)=manual
F1C6528.D ET0909R.M Wed Nov 27 11:50:09 2002 HPDOS9 Page 1

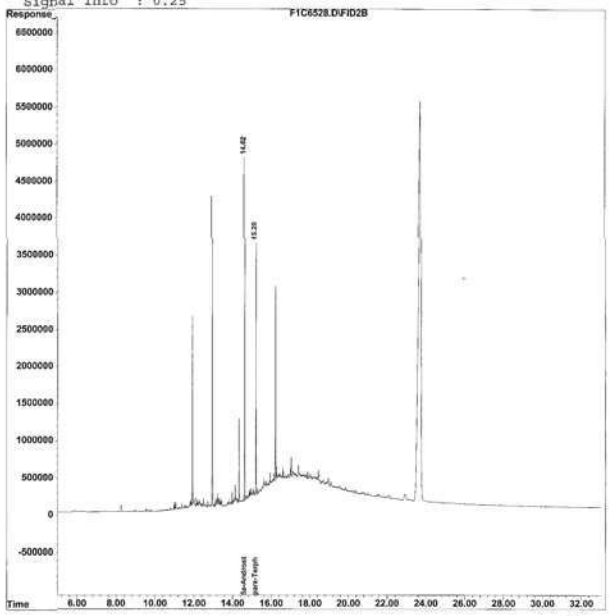
001477

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6528.D Vial: 15
Acq On : 11-26-02 19:20:31 PM Operator:
Sample : A1627-32A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 11:49 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6528.D ET0909R.M Wed Nov 27 11:50:17 2002 HPDOS9 Page 2

001478

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6528.D Vial: 15
Acq On : 11-26-02 19:20:31 PM Operator:
Sample : A1627-32A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6528.D\FID2B

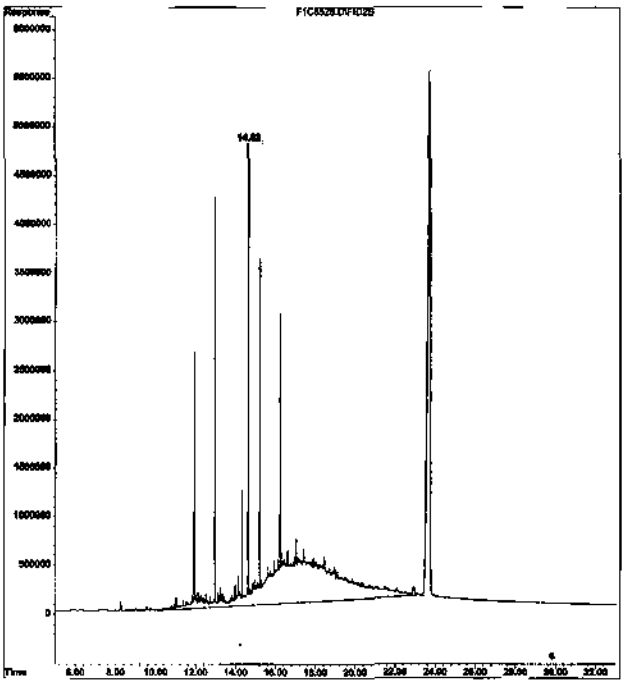
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.620	10.180	23.057		M	4736233	1498753618	100.000	100.000%

Sum of corrected areas: 1498753618

F1C6528.D ET0909R.M Wed Nov 27 11:50:41 2002 HPDOS9

001479

File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6528.D
Operator :
Acquired : 11-26-02 19:20:31 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-32A
Misc Info :
Vial Number: 15



1480

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6476.D Vial: 37
Acq On : 11-22-02 2:12:22 PM Operator:
Sample : A1627-33A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:25 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.65	43127374	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.23	42465566	45.143	ng	
Spiked Amount	50.000	Recovery	=	90.29%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	d
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF
11/25/02

(f)=RT Delta > 1/2 Window (m)=manual
F1C6476.D ET0909R.M Mon Nov 25 11:26:10 2002 HPDOS9 Page 1

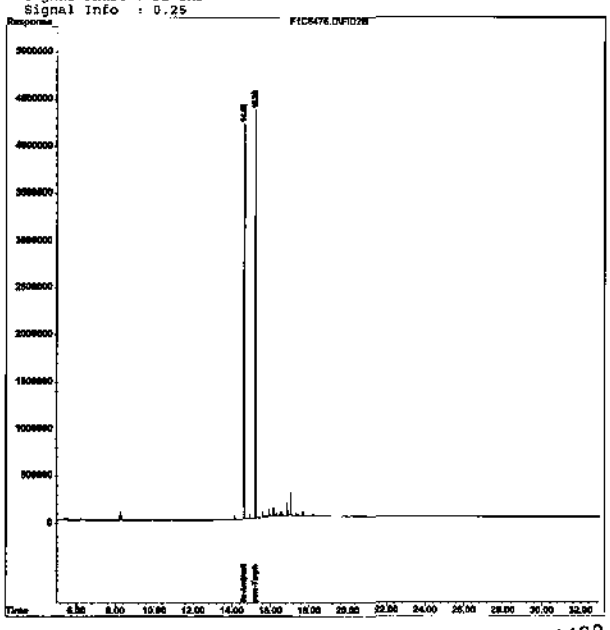
001481

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6476.D Vial: 37
Acq On : 11-22-02 2:12:22 PM Operator:
Sample : A1627-33A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:25 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6476.D ET0909R.M Mon Nov 25 11:26:17 2002 HPDOS9 Page 2

001482

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6476.D Vial: 37
Acq On : 11-22-02 2:12:22 PM Operator:
Sample : A1627-33A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.1\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6476.D\FID2B

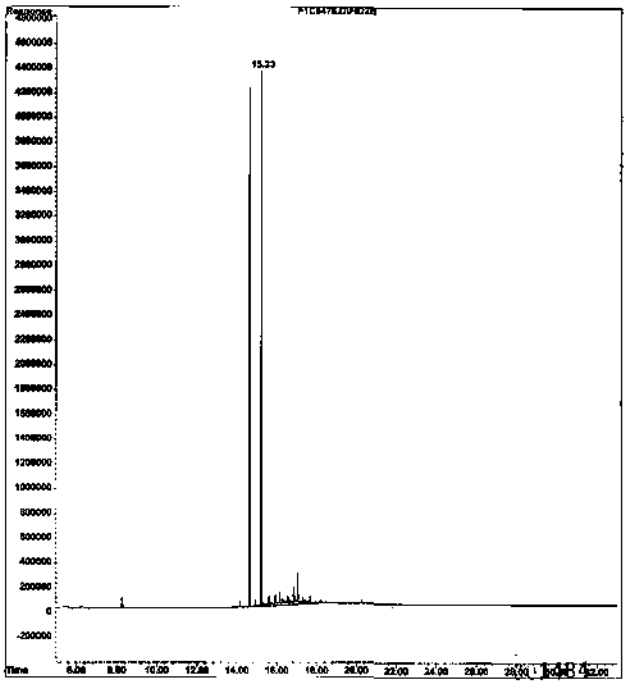
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	% max.	% of total
1	15.231	14.514	18.346	M	4336903	130033793	100.000%	100.000%

Sum of corrected areas: 130033793

F1C6476.D ET0909R.M Mon Nov 25 11:26:36 2002 HPDOS9

001483

File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6476.D
Operator :
Acquired : 11-22-02 2:12:22 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-33A
Misc Info :
Vial Number: 37



001484

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6477.D Vial: 38
Acq On : 11-22-02 2:12:22 PM Operator:
Sample : A1627-34A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:10 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) T	5a-Androstane	15.19	19229001	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.75	17968028	42.851	ng	
Spiked Amount	50.000		Recovery =	85.70%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	
14)	OCTACOSANE C28	0.00	0	N.D.	ng	
15)	TRIACONTANE C30	0.00	0	N.D.	ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

BMF
11/26/02

(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6477.D ET0909F.M Mon Nov 25 14:11:10 2002 HPDOS9 Page 1

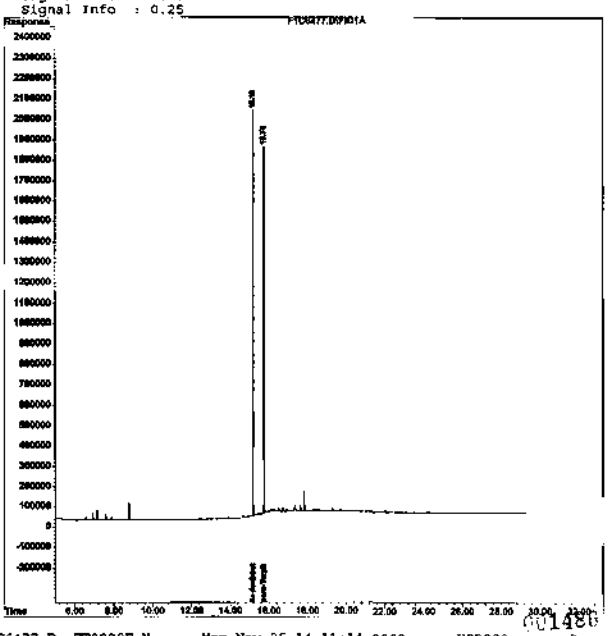
001485

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6477.D Vial: 38
Acq On : 11-22-02 2:12:22 PM Operator:
Sample : A1627-34A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:10 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6477.D ET0909F.M Mon Nov 25 14:11:14 2002 HPDOS9 Page 2

001486

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6477.D Vial: 38
Acq On : 11-22-02 2:12:22 PM Operator:
Sample : A1627-34A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6477.D\FID1A

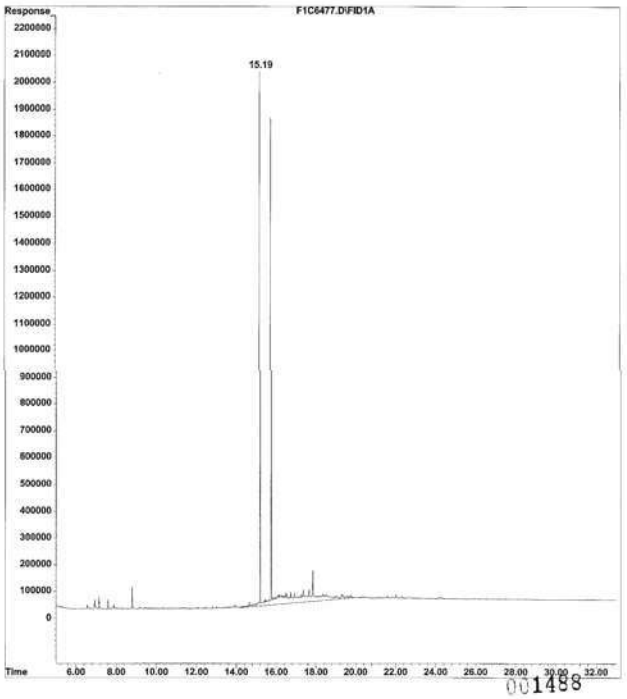
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.187	14.157	19.913	M	1998610	89072409	100.00%	100.000%

Sum of corrected areas: 89072409

F1C6477.D ET0909F.M Mon Nov 25 14:11:37 2002 HPDOS9

001487

File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6477.D
Operator :
Acquired : 11-22-02 2:12:22 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-34A
Misc Info :
Vial Number: 38



001488

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6478.D Vial: 39
Acq On : 11-22-02 2:54:04 PM Operator:
Sample : A1627-35A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:27 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.65	43105525	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.23	38935174	41.125	ng	
Spiked Amount	50.000		Recovery =	82.25%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	d
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF
11/25/02

001489

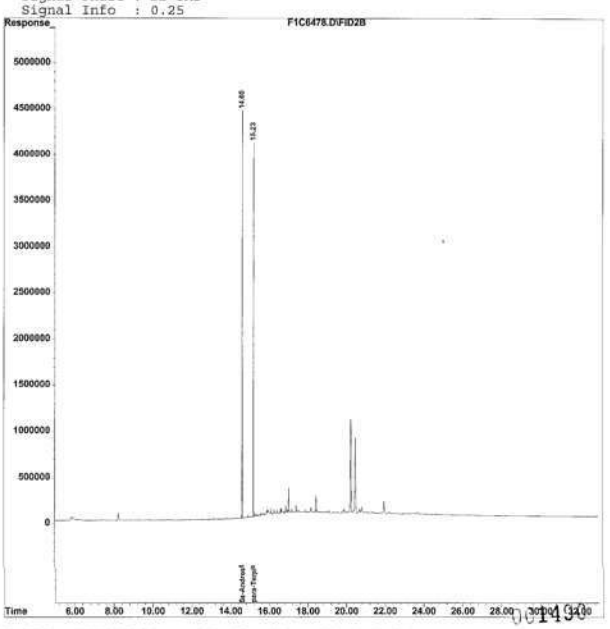
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6478.D ET0909R.M Mon Nov 25 11:27:53 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6478.D Vial: 39
Acq On : 11-22-02 2:54:04 PM Operator:
Sample : A1627-35A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:27 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001490

F1C6478.D ET0909R.M Mon Nov 25 11:28:01 2002 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6478.D Vial: 39
Acq On : 11-22-02 2:54:04 PM Operator:
Sample : A1627-35A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6478.D\FID2B

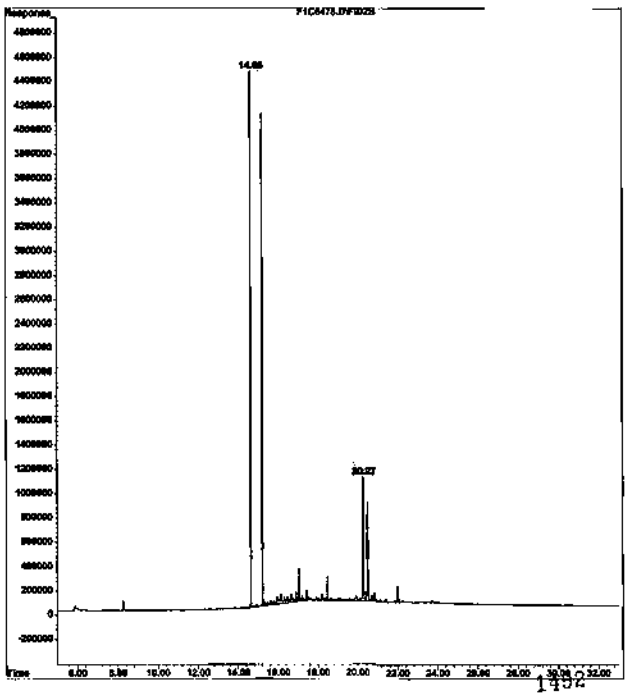
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.646	14.479	17.596	M	4430024	118491417	100.00%	57.611%
2	20.271	17.730	22.104	M1D	1972 7	87183370	73.58%	42.389%

Sum of corrected areas: 205674787

F1C6478.D ET0909F.M Wed Nov 27 11:36:28 2002 HPDOS9

001491

File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6478.D
Operator :
Acquired : 11-22-02 2:54:04 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-35A
Misc Info :
Vial Number: 39



1492

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6524.D Vial: 11
Acq On : 11-26-02 17:56:42 PM Operator:
Sample : A1627-36B Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 16:12 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.62	41495196	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.20	23630770	26.109	ng	
Spiked Amount	50.000	Recovery	=	52.22%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	
15)	TRIACONTANE C30	0.00	0	N.D.	ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

BMF 11/27/02

(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6524.D ET0909R.M Wed Nov 27 16:12:36 2002 HPDOS9 Page 1

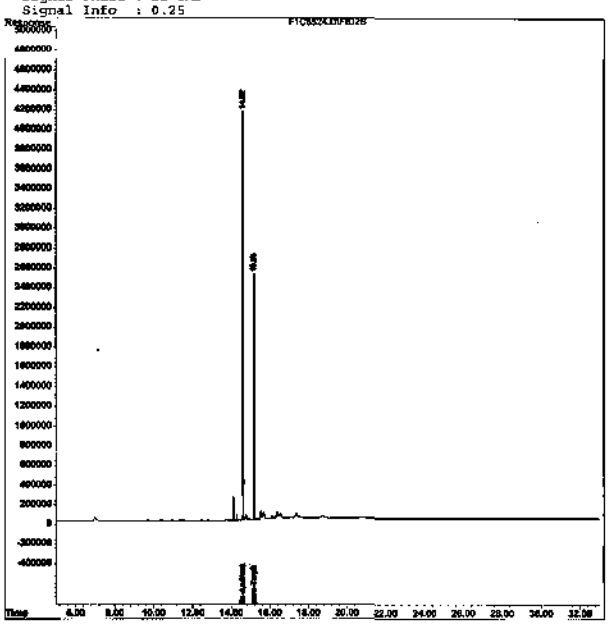
1493

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6524.D Vial: 11
Acq On : 11-26-02 17:56:42 PM Operator:
Sample : A1627-36B Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 16:12 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6524.D ET0909R.M Wed Nov 27 16:12:43 2002 HPDOS9 Page 2

1494

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6524.D Vial: 11
Acq On : 11-26-02 17:56:42 PM Operator:
Sample : A1627-36B Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

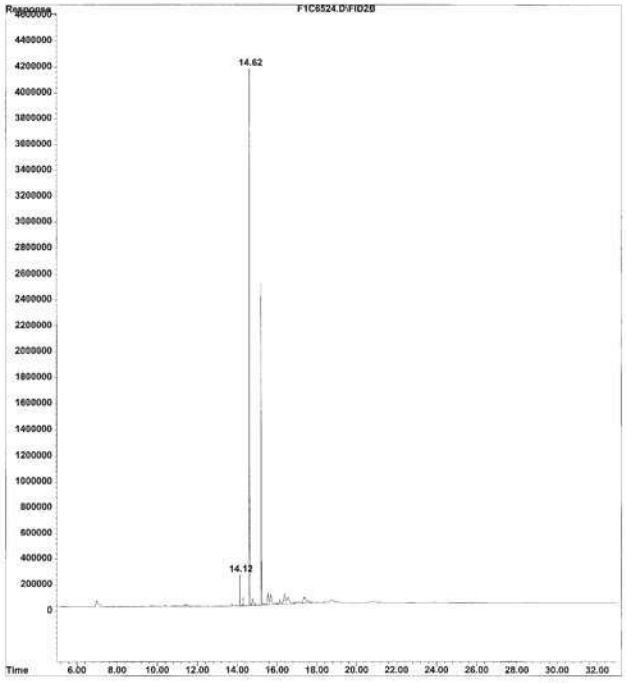
Signal : F1C6524.D\FID2B

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.124	14.068	14.446	M	239589	2901445	2.93%	2.847%
2	14.619	14.470	17.916	M	4150250	98994560	100.00%	97.153%

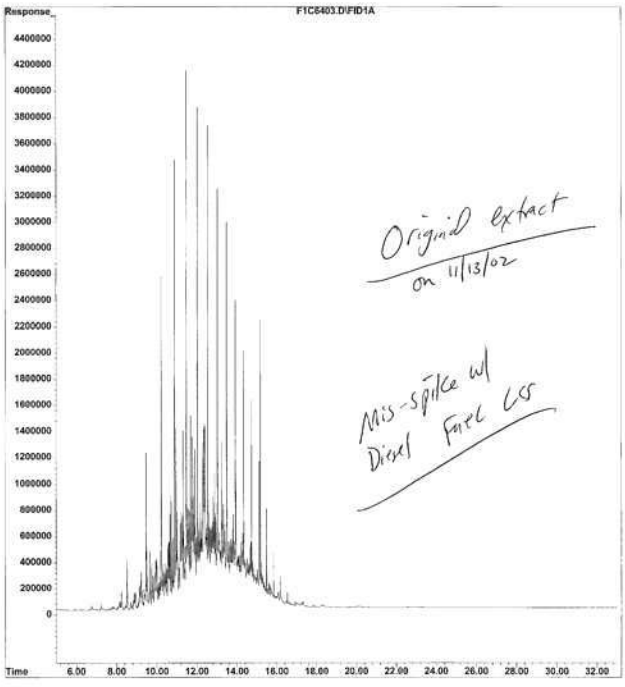
Sum of corrected areas: 101896005

F1C6524.D ET0909R.M Wed Nov 27 16:13:14 2002 HPDOS9

File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6524.D
Operator :
Acquired : 11-26-02 17:56:42 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-36B
Misc Info :
Vial Number: 11



File : C:\HPCHEM\1\DATA\NOV02\021114\F1C6403.D
Operator :
Acquired : 11-14-02 14:03:15 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-36
Misc Info
Vial Number: 10



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6525.D Vial: 12
Acq On : 11-26-02 17:56:42 PM Operator:
Sample : A1627-37B Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 16:16 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	15.14	23619548	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.69	11930569	23.361	ng	
Spiked Amount	50.000	Recovery	=	46.72%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	
14)	OCTACOSANE C28	0.00	0	N.D.	ng	
15)	TRIACONTANE C30	0.00	0	N.D.	ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

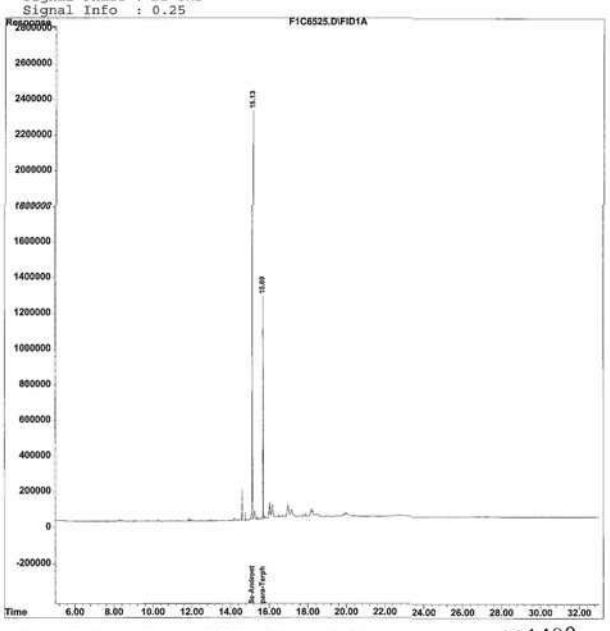
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6525.D ET0909F.M Wed Nov 27 16:16:43 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6525.D Vial: 12
Acq On : 11-26-02 17:56:42 PM Operator:
Sample : A1627-37B Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 16:16 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6525.D ET0909F.M Wed Nov 27 16:16:47 2002 HPDOS9 Page 2

001499

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6525.D Vial: 12
Acq On : 11-26-02 17:56:42 PM Operator:
Sample : A1627-37B Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6525.D\FID1A

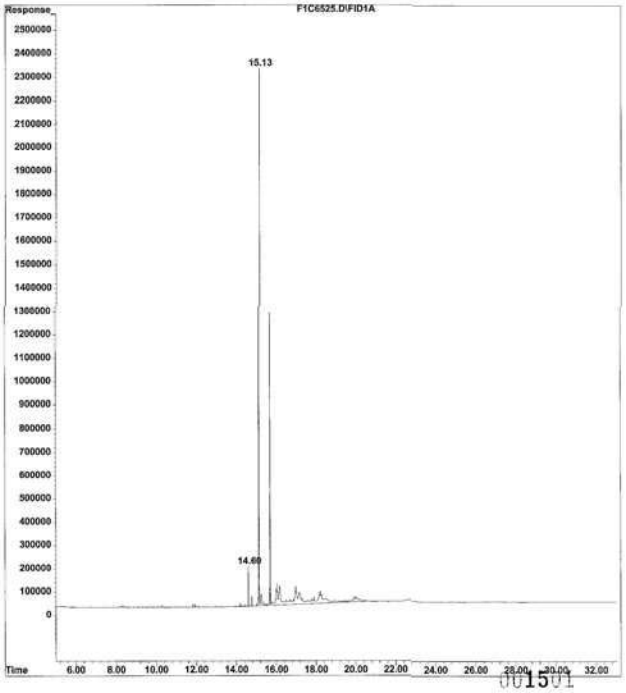
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.599	14.114	14.891	M	170736	2637353	3.10%	3.004%
2	15.135	14.917	20.664	M	2300659	85168027	100.00%	96.996%

Sum of corrected areas: 87805380

F1C6525.D ET0909F.M Wed Nov 27 16:17:26 2002 HPDOS9

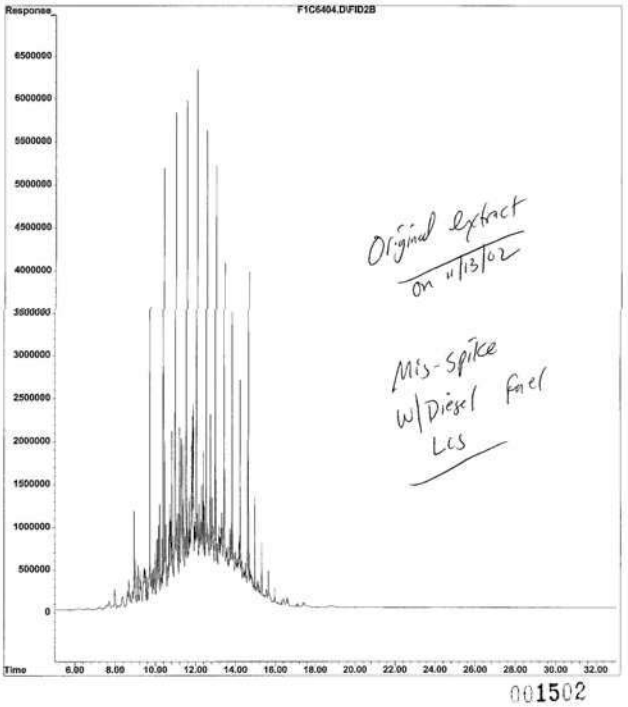
001500

File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6525.D
Operator :
Acquired : 11-26-02 17:56:42 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-37B
Misc Info :
Vial Number: 12



001501

File : C:\HPCHEM\1\DATA\NOV02\021114.SEC\F1C6404.D
Operator :
Acquired : ~~11-14-02~~ 14:45:29 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-37
Misc Info :
Vial Number: 11



Original extract on 11/13/02

Mis-spike w/ Diesel Fuel LCS

001502

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6479.D Vial: 40
Acq On : 11-22-02 2:54:04 PM Operator:
Sample : A1627-38A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:12 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	15.19	19096006	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.75	18596294	44.658	ng	
Spiked Amount	50.000		Recovery =	89.32%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	
14)	OCTACOSANE C28	0.00	0	N.D.	ng	
15)	TRIACONTANE C30	0.00	0	N.D.	ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

BMF
11/25/02

001503

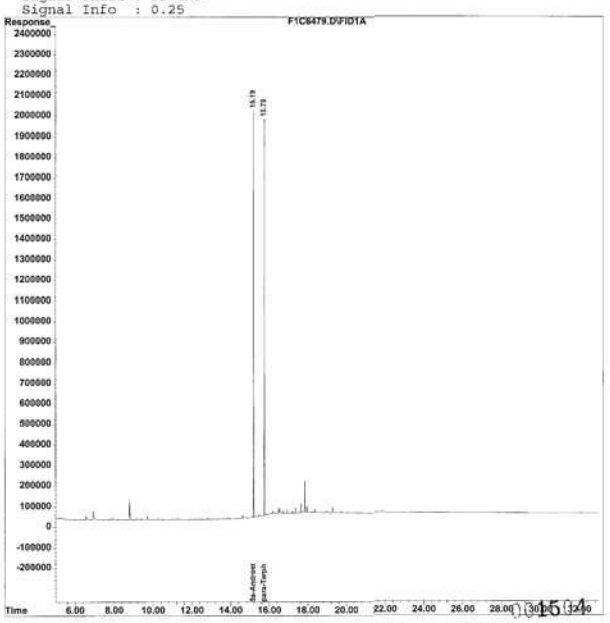
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6479.D ET0909F.M Mon Nov 25 14:12:39 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6479.D Vial: 40
Acq On : 11-22-02 2:54:04 PM Operator:
Sample : A1627-38A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:12 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001504

F1C6479.D ET0909F.M Mon Nov 25 14:12:43 2002 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6479.D Vial: 40
Acq On : 11-22-02 2:54:04 PM Operator:
Sample : A1627-38A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6479.D\FID1A

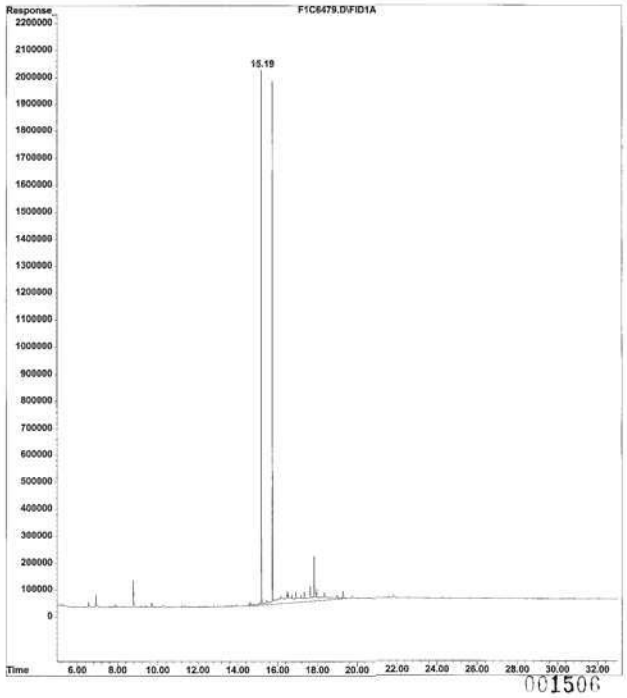
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.188	14.548	19.459	M	1986356	76396118	100.00%	100.000%

Sum of corrected areas: 76396118

F1C6479.D ET0909F.M Mon Nov 25 14:13:03 2002 HPDOS9

001505

File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6479.D
Operator :
Acquired : 11-22-02 2:54:04 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-38A
Misc Info :
Vial Number: 40



001506

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6486.D Vial: 41
Acq On : 11-22-02 5:45:01 PM Operator:
Sample : A1627-39A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:29 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.65	40895018	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.23	36777850	41.231	ng	
Spiked Amount	50.000		Recovery =	82.46%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	d
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF
11/25/02

(f)=RT Delta > 1/2 Window (m)=manual int
F1C6486.D ET0909R.M Mon Nov 25 11:29:48 2002 HPDOS9 Page 1

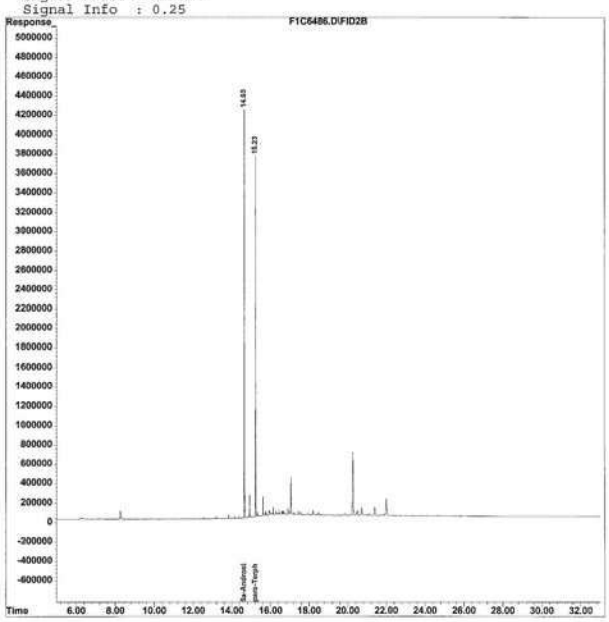
001507

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6486.D Vial: 41
Acq On : 11-22-02 5:45:01 PM Operator:
Sample : A1627-39A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:29 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6486.D ET0909R.M Mon Nov 25 11:29:55 2002 HPDOS9 Page 2

001508

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6486.D Vial: 41
Acq On : 11-22-02 5:45:01 PM Operator:
Sample : A1627-39A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6486.D\FID2B

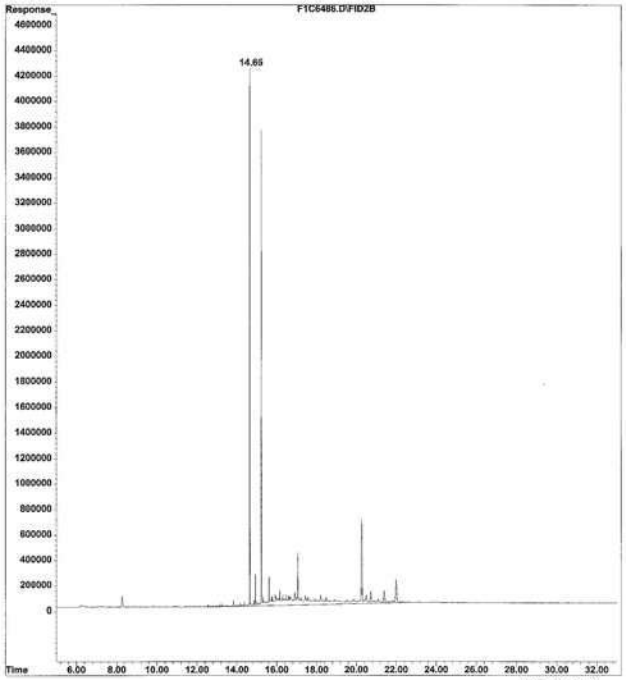
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.646	12.411	22.418	M	4221080	245301558	100.00%	100.000%

Sum of corrected areas: 245301558

F1C6486.D ET0909R.M Mon Nov 25 11:30:23 2002 HPDOS9

001509

File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6486.D
Operator :
Acquired : 11-22-02 5:45:01 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-39A
Misc Info :
Vial Number: 41



001510

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6487.D Vial: 42
Acq On : 11-22-02 5:45:01 PM Operator:
Sample : A1627-40A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:13 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units	
	Internal Standards				
1) I	5a-Androstane	15.19	18421688	40.000 ng	
	System Monitoring Compounds				
2) S	para-Terphenyl	15.75	16645407	41.431 ng	
Spiked Amount	50.000	Recovery	=	82.86%	
	Target Compounds				
3)	Nonane C9	0.00	0	N.D. ng	
4)	DECANE C10	0.00	0	N.D. ng	
5)	DODECANE C12	0.00	0	N.D. ng	
6)	TETRADECANE C14	0.00	0	N.D. ng	
7)	HEXADECANE C 16	0.00	0	N.D. ng	
8)	OCTADECANE C18	0.00	0	N.D. ng	
9)	NONADECANE C19	0.00	0	N.D. ng	
10)	EICOSANE C20	0.00	0	N.D. ng	d
11)	DOCOSANE C22	0.00	0	N.D. ng	d
12)	TETRACOSANE C24	0.00	0	N.D. ng	d
13)	HEXACOSANE C26	0.00	0	N.D. ng	
14)	OCTACOSANE C28	0.00	0	N.D. ng	
15)	TRIACONTANE C30	0.00	0	N.D. ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D. ng	

EMF
11/26/02

001511

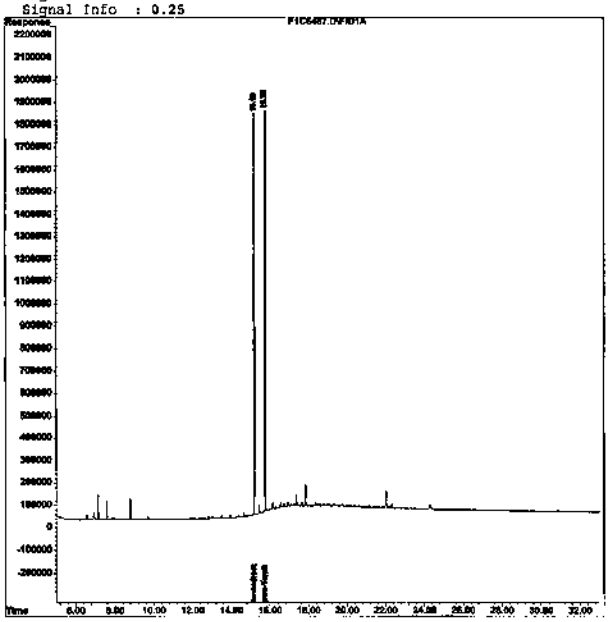
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6487.D ET0909F.M Mon Nov 25 14:14:09 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6487.D Vial: 42
Acq On : 11-22-02 5:45:01 PM Operator:
Sample : A1627-40A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:13 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6487.D ET0909F.M Mon Nov 25 14:14:13 2002 HPDOS9 001512 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6487.D Vial: 42
Acq On : 11-22-02 5:45:01 PM Operator:
Sample : A1627-40A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6487.D\FID1A

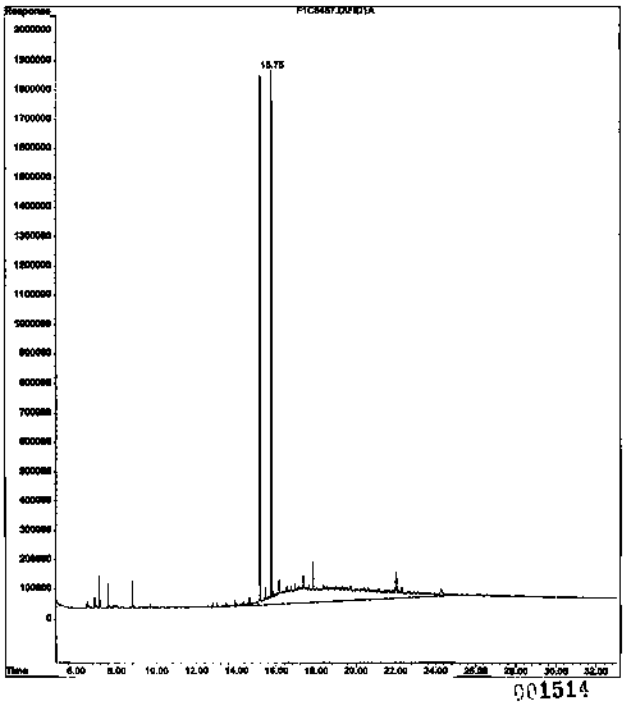
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.748	12.691	24.529	M	1817696	217799630	100.00%	100.000%

Sum of corrected areas: 217799630

F1C6487.D ET0909F.M Mon Nov 25 14:14:47 2002 HPDOS9

001513

File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6487.D
Operator :
Acquired : 11-22-02 5:45:01 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-40A
Misc Info :
Vial Number: 42



001514

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6488.D Vial: 43
Acq On : 11-22-02 6:27:13 PM Operator:
Sample : A1627-41A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:31 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.65	43594687	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.23	43134748	45.259	ng	
Spiked Amount	50.000		Recovery =	90.52%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	d
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

EMF 11/25/02

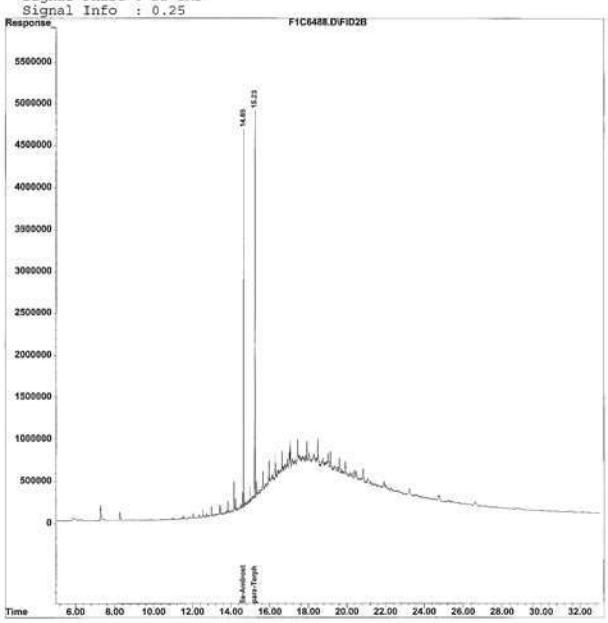
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6488.D Vial: 43
Acq On : 11-22-02 6:27:13 PM Operator:
Sample : A1627-41A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:31 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6488.D Vial: 43
Acq On : 11-22-02 6:27:13 PM Operator:
Sample : A1627-41A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

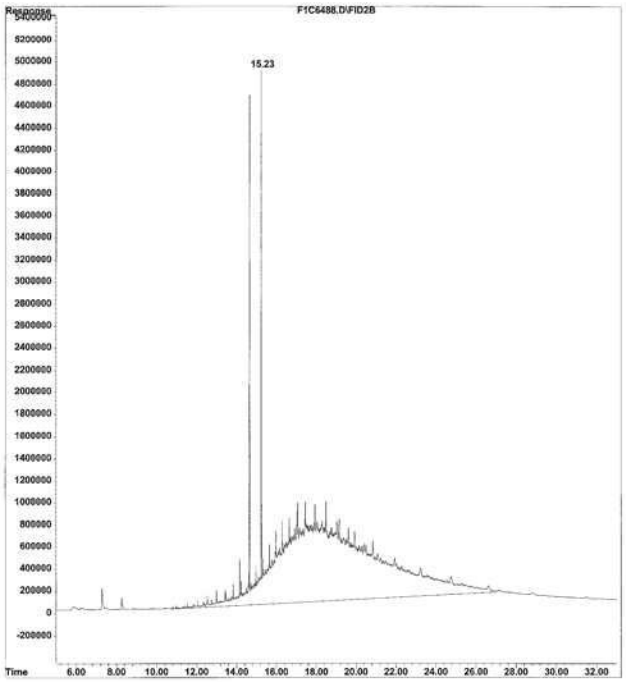
Signal : F1C6488.D\FID2B

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.232	10.714	26.948	M	4845134	2665748287	100.00%	100.000%

Sum of corrected areas: 2665748287

F1C6488.D ET0909R.M Mon Nov 25 11:32:10 2002 HPDOS9

File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6488.D
Operator :
Acquired : 11-22-02 6:27:13 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-41A
Misc Info :
Vial Number: 43



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6489.D Vial: 44
Acq On : 11-22-02 6:27:13 PM Operator:
Sample : A1627-42A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:15 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	15.19	18519735	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.75	17923084	43.142	ng	
Spiked Amount	50.000		Recovery =	86.28%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	
14)	OCTACOSANE C28	0.00	0	N.D.	ng	
15)	TRIACONTANE C30	0.00	0	N.D.	ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

BMF 11/25/02

(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6489.D ET0909F.M Mon Nov 25 14:15:50 2002 HPDOS9 Page 1

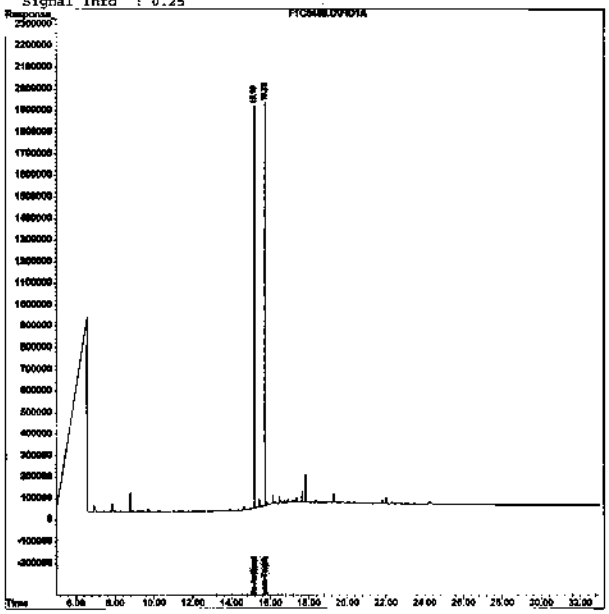
001519

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6489.D Vial: 44
Acq On : 11-22-02 6:27:13 PM Operator:
Sample : A1627-42A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:15 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6489.D ET0909F.M Mon Nov 25 14:15:54 2002 HPDOS9 Page 2

001520

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6489.D Vial: 44
Acq On : 11-22-02 6:27:13 PM Operator:
Sample : A1627-42A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6489.D\FID1A

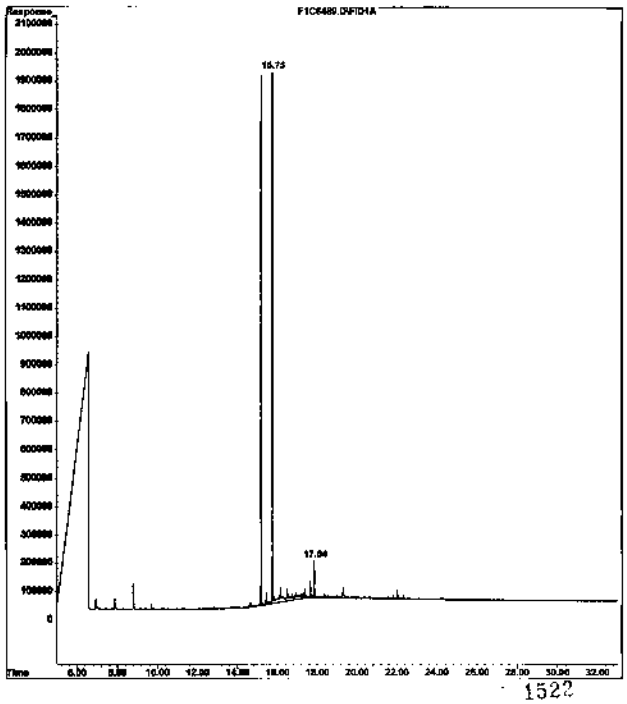
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.747	14.407	17.506	M	1882134	52613914	100.00%	78.168%
2	17.845	17.605	22.385	M	134689	14694497	27.93%	21.832%

Sum of corrected areas: 67308411

F1C6489.D ET0909F.M Wed Nov 27 11:38:34 2002 HPDOS9

001521

File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6489.D
Operator :
Acquired : 11-22-02 6:27:13 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-42A
Misc Info :
Vial Number: 44



1522

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6490.D Vial: 45
Acq On : 11-22-02 7:09:09 PM Operator:
Sample : A1627-43A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:33 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.65	40505453	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.23	40780911	46.158	ng	
Spiked Amount	50.000		Recovery =	92.32%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	d
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF
11/25/02

(f)=RT Delta > 1/2 Window (m)=manual
F1C6490.D ET0909R.M Mon Nov 25 11:33:23 2002 HPDOS9 Page 1

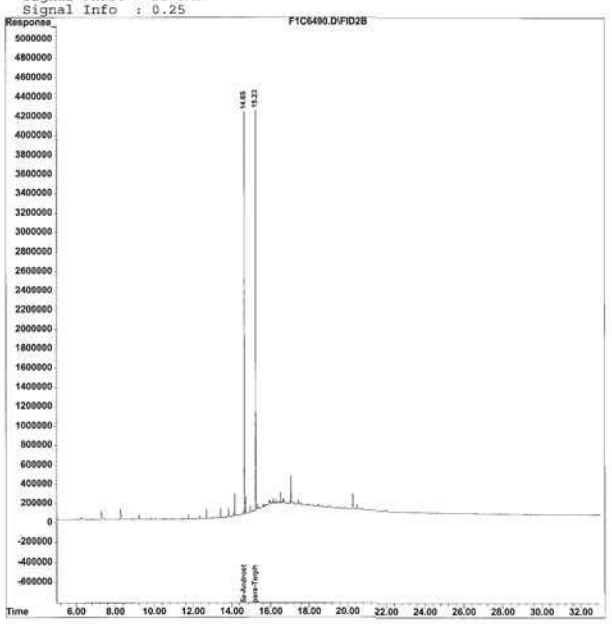
001523

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6490.D Vial: 45
Acq On : 11-22-02 7:09:09 PM Operator:
Sample : A1627-43A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:33 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6490.D ET0909R.M Mon Nov 25 11:33:30 2002 HPDOS9 Page 2

001524

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6490.D Vial: 45
Acq On : 11-22-02 7:09:09 PM Operator:
Sample : A1627-43A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6490.D\FID2B

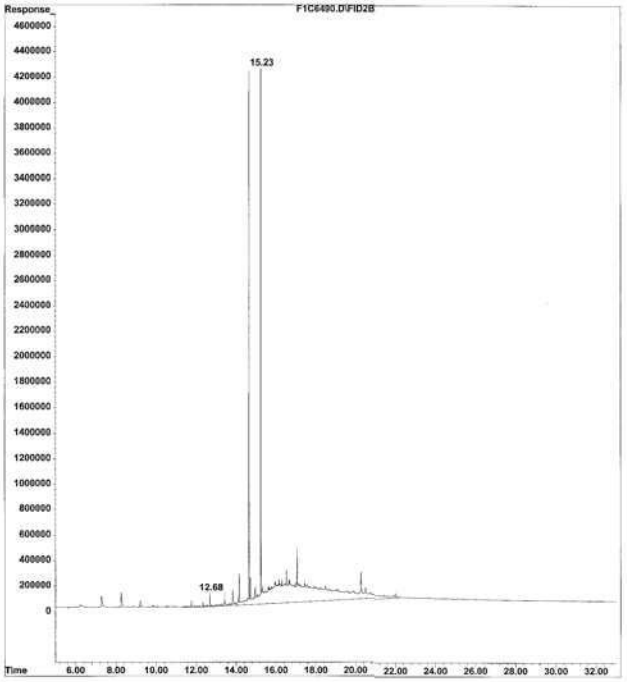
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	12.682	11.298	12.836	M	103844	5454015	1.17%	1.154%
2	15.233	12.857	22.128	M	4211941	467124295	100.00%	98.846%

Sum of corrected areas: 472578310

F1C6490.D ET0909R.M Mon Nov 25 11:34:00 2002 HPDOS9

001525

File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6490.D
Operator :
Acquired : 11-22-02 7:09:09 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-43A
Misc Info :
Vial Number: 45



001526

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6491.D Vial: 46
Acq On : 11-22-02 7:09:09 PM Operator:
Sample : A1627-44A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:17 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	15.19	1791650	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.74	2245290	5.209	ng	m3
Spiked Amount	50.000		Recovery =	10.42%		
				x10 = 104%		emf 11/25/02
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

emf 11/25/02

(f)=RT Delta > 1/2 Window (m)=manual
F1C6491.D ET0909F.M Mon Nov 25 14:17:40 2002 HPDOS9 Page 1

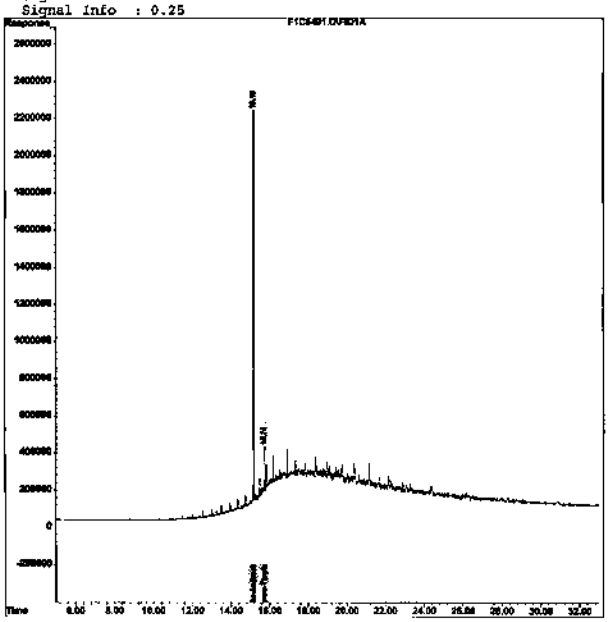
001527

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6491.D Vial: 46
Acq On : 11-22-02 7:09:09 PM Operator:
Sample : A1627-44A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:17 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



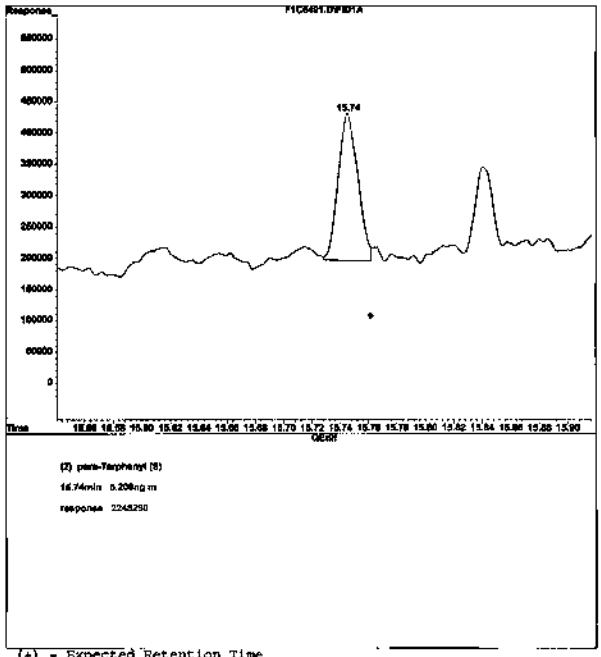
F1C6491.D ET0909F.M Mon Nov 25 14:17:44 2002 HPDOS9 Page 2

001528

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6491.D Vial: 46
Acq On : 11-22-02 7:09:09 PM Operator:
Sample : A1627-44A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:16 19102 Quant Results File: ET0909F.RES

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration



(+) = Expected Retention Time
F1C6491.D ET0909F.M Mon Nov 25 14:17:21 2002 HPDOS9

1529

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6491.D Vial: 46
Acq On : 11-22-02 7:09:09 PM Operator:
Sample : A1627-44A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6491.D\FID1A

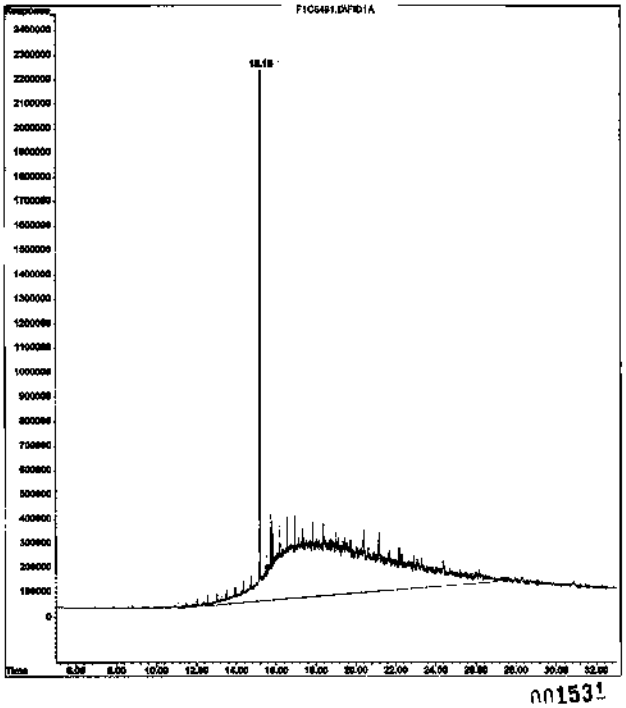
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.189	11.087	27.027	M	2179932	989330151	100.00%	100.000%

Sum of corrected areas: 989330151

F1C6491.D ET0909F.M Mon Nov 25 14:18:05 2002 HPDOS9

1530

File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6491.D
Operator :
Acquired : 11-22-02 7:09:09 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-44A
Misc Info :
Vial Number: 46



00153

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6526.D Vial: 13
Acq On : 11-26-02 18:38:24 PM Operator:
Sample : A1627-45A X10 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 11:48 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.62	41972071	40.000	ng	m
	System Monitoring Compounds					
2) S	para-Terphenyl	15.20	5924073	6.475	ng	m
Spiked Amount	50.000	Recovery	=	12.95%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF 11/27/02

(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6526.D ET0909R.M Wed Nov 27 11:48:20 2002 HPDOS9 Page 1

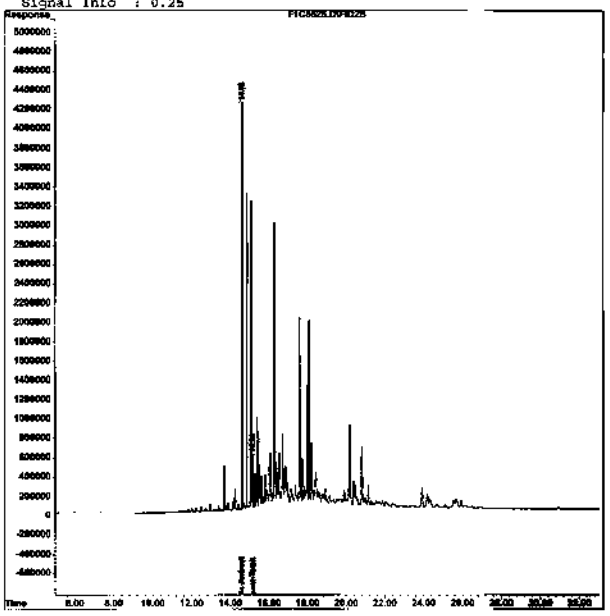
00153

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6526.D Vial: 13
Acq On : 11-26-02 18:38:24 PM Operator:
Sample : A1627-45A X10 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 11:48 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



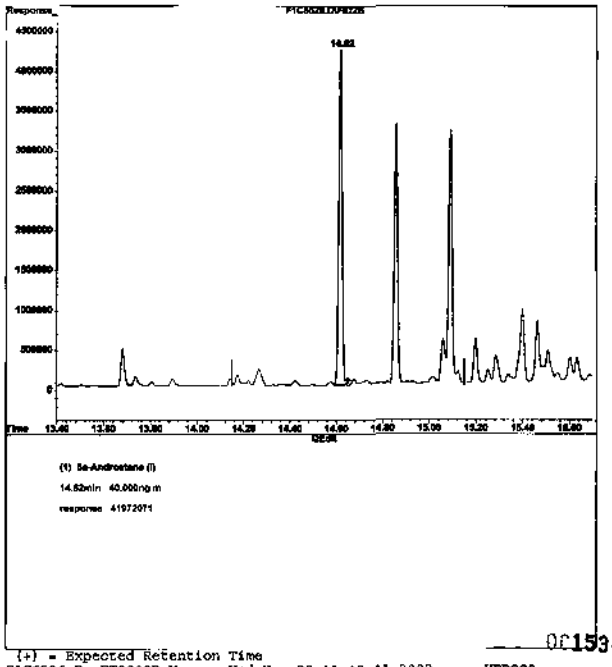
F1C6526.D ET0909R.M Wed Nov 27 11:48:27 2002 HPDOS9 Page 2

00153

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6526.D Vial: 13
Acq On : 11-26-02 18:38:24 PM Operator:
Sample : A1627-45A X10 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 11:47 19102 Quant Results File: ET0909R.RES

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration



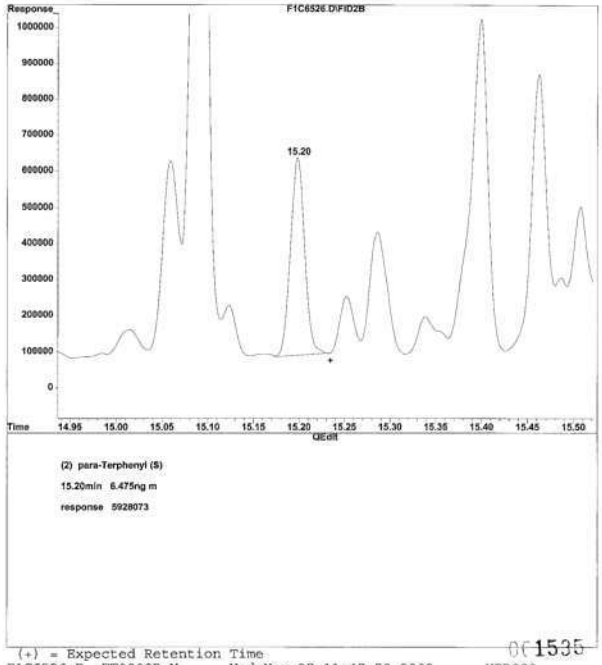
00153

(+) = Expected Retention Time
F1C6526.D ET0909R.M Wed Nov 27 11:47:41 2002 HPDOS9

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6526.D Vial: 13
Acq On : 11-26-02 18:38:24 PM Operator:
Sample : A1627-45A X10 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 11:47 19102 Quant Results File: ET0909R.RES

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration



(+) = Expected Retention Time
F1C6526.D ET0909R.M Wed Nov 27 11:47:58 2002 HPDOS9

001535

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6526.D Vial: 13
Acq On : 11-26-02 18:38:24 PM Operator:
Sample : A1627-45A X10 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6526.D\FID2B

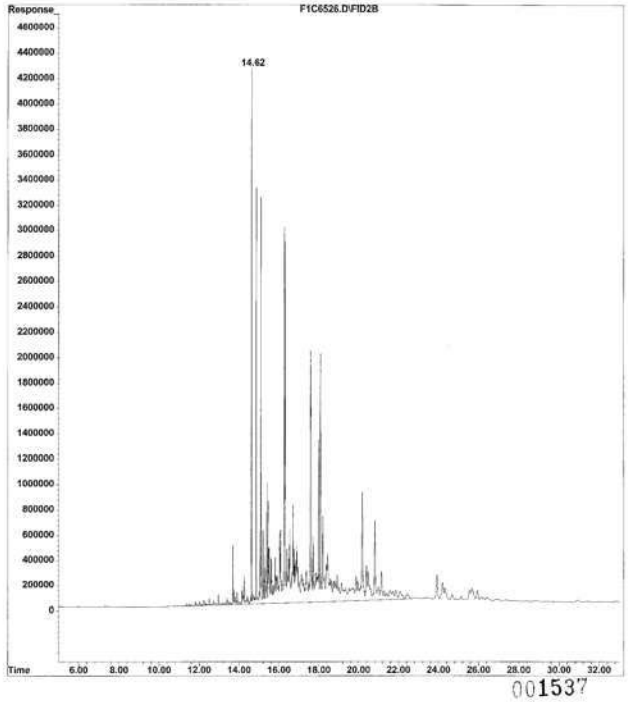
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.618	11.089	22.620	M	4226764	963340552	100.00%	100.000%

Sum of corrected areas: 963340552

F1C6526.D ET0909R.M Wed Nov 27 11:48:54 2002 HPDOS9

001536

File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6526.D
Operator :
Acquired : 11-26-02 18:38:24 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-45A X10
Misc Info :
Vial Number: 13



001537

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6493.D Vial: 48
Acq On : 11-22-02 7:53:05 PM Operator:
Sample : A1627-46A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:19 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I 5a-Androstane	15.19	19874947	40.000	ng	
	System Monitoring Compounds					
2)	S para-Terphenyl	15.75	2236977	5.161	ng	m3
Spiked Amount 50.000			Recovery =	10.32%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6493.D ET0909F.M Mon Nov 25 14:19:17 2002 HPDOS9 Page 1

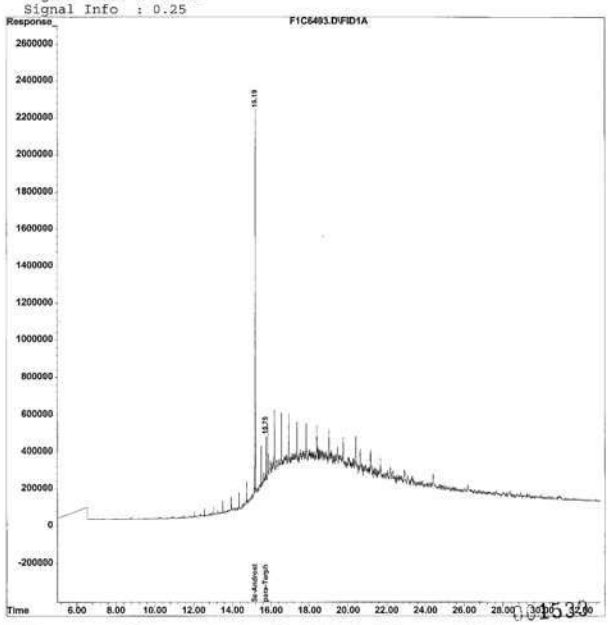
001538

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6493.D Vial: 48
Acq On : 11-22-02 7:53:05 PM Operator:
Sample : A1627-46A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:19 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

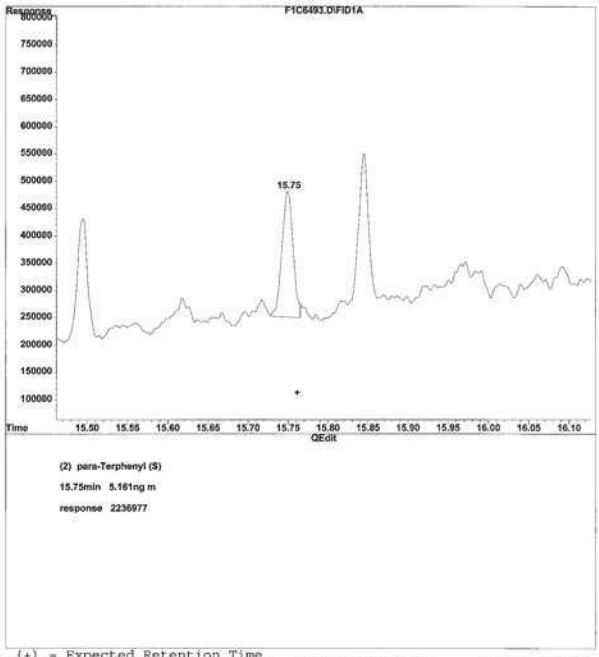


F1C6493.D ET0909F.M Mon Nov 25 14:19:21 2002 HPDOS9 Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6493.D Vial: 48
Acq On : 11-22-02 7:53:05 PM Operator:
Sample : A1627-46A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:18 19102 Quant Results File: ET0909F.RES

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration



(+) = Expected Retention Time

F1C6493.D ET0909F.M Mon Nov 25 14:18:57 2002 HPDOS9

001540

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6493.D Vial: 48
Acq On : 11-22-02 7:53:05 PM Operator:
Sample : A1627-46A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6493.D\FID1A

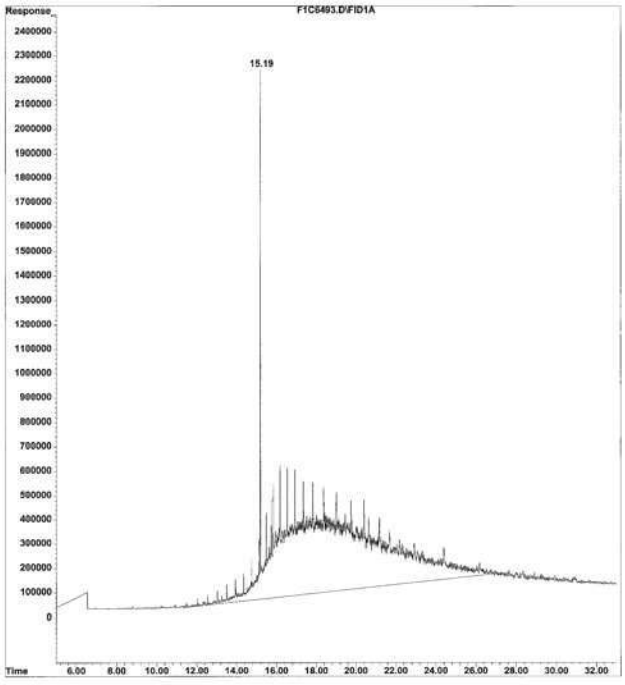
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.193	11.343	26.463	M	2172965	1238258669	100.00%	100.000%

Sum of corrected areas: 1238258669

F1C6493.D ET0909F.M Mon Nov 25 14:19:41 2002 HPDOS9

001541

File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6493.D
Operator :
Acquired : 11-22-02 7:53:05 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-46A
Misc Info :
Vial Number: 48



001542

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6501.D Vial: 56
Acq On : 11-22-02 10:41:54 PM Operator:
Sample : A1627-47A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:23 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	15.19	19193158	40.000	ng	
	System Monitoring Compounds					
2) $	para-Terphenyl	15.75	2323841	5.552	ng	
Spiked Amount	50.000		Recovery =	11.10%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF 11/25/02

001543

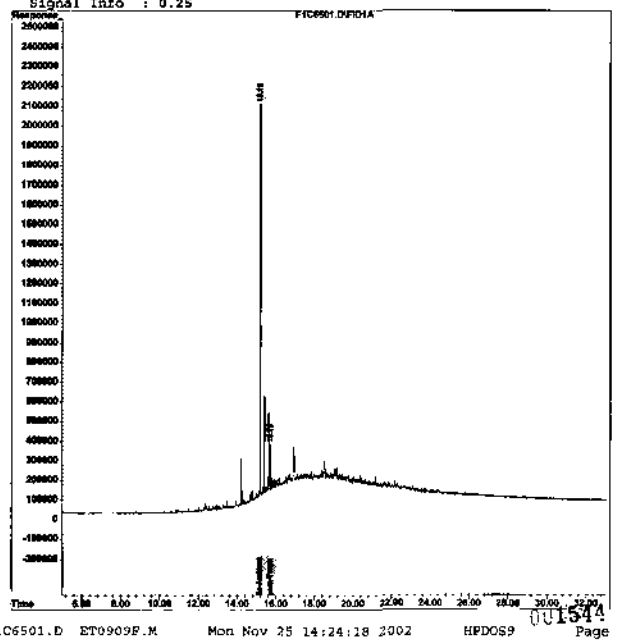
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6501.D ET0909F.M Mon Nov 25 14:24:14 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6501.D Vial: 56
Acq On : 11-22-02 10:41:54 PM Operator:
Sample : A1627-47A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:23 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001544

F1C6501.D ET0909F.M Mon Nov 25 14:24:18 2002 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6501.D Vial: 56
Acq On : 11-22-02 10:41:54 PM Operator:
Sample : A1627-47A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6501.D\FID1A

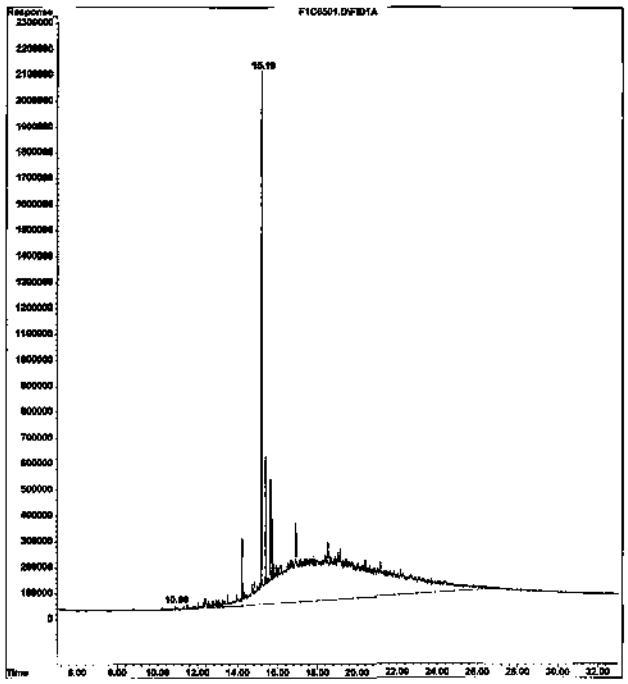
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	% max.	% of total
1	10.878	10.048	11.241	M	14983	1508744	0.22%	0.217%
2	15.191	11.298	26.533	M2	058264	692870241	100.00%	99.783%

Sum of corrected areas: 694378985

F1C6501.D ET0909F.M Wed Nov 27 11:39:28 2002 HPDOS9

001545

File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6501.D
Operator :
Acquired : 11-22-02 10:41:54 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-47A
Misc Info :
Vial Number: 56



001546

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6494.D Vial: 49
Acq On : 11-22-02 8:35:12 PM Operator:
Sample : A1627-49A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:35 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.65	43057719	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.23	43344143	46.151	ng	
Spiked Amount	50.000		Recovery =	92.30%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	d
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF
11/25/02

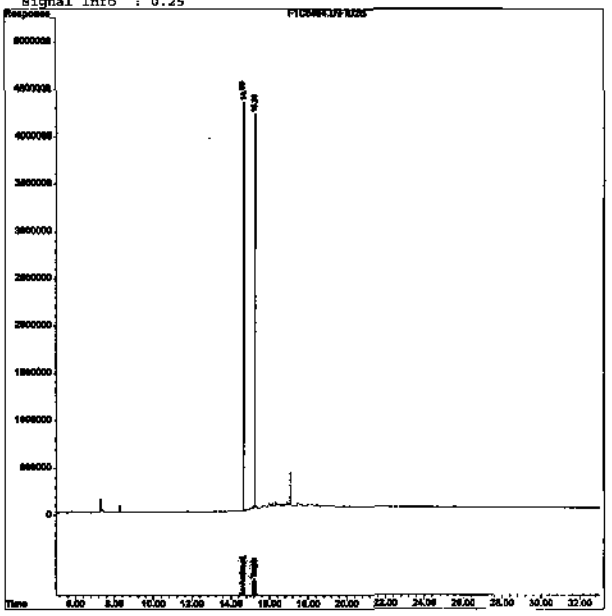
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6494.D ET0909R.M Mon Nov 25 11:35:22 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6494.D Vial: 49
Acq On : 11-22-02 8:35:12 PM Operator:
Sample : A1627-49A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:35 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6494.D ET0909R.M Mon Nov 25 11:35:29 2002 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6494.D Vial: 49
Acq On : 11-22-02 8:35:12 PM Operator:
Sample : A1627-49A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

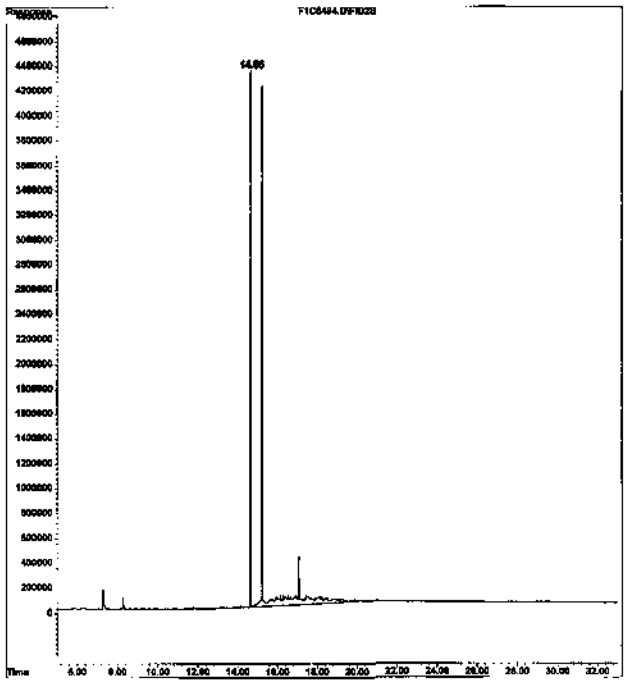
Signal : F1C6494.D\FID2B

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.648	14.507	19.986	M	4319832	202713311	100.00%	100.000%

Sum of corrected areas: 202713311

F1C6494.D ET0909R.M Mon Nov 25 11:35:48 2002 HPDOS9

File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6494.D
Operator :
Acquired : 11-22-02 8:35:12 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-49A
Misc Info :
Vial Number: 49



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6495.D Vial: 50
Acq On : 11-22-02 8:35:12 PM Operator:
Sample : A1627-50A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:20 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	15.19	18228562	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.75	16496890	41.501	ng	
Spiked Amount	50.000		Recovery =	83.00%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	
14)	OCTACOSANE C28	0.00	0	N.D.	ng	
15)	TRIACONTANE C30	0.00	0	N.D.	ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

BAF
11/25/02

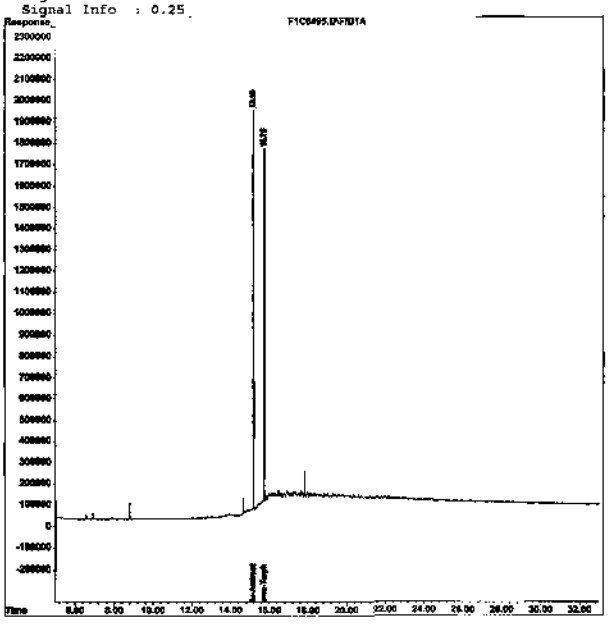
(f)=RT Delta > 1/2 Window (m)=manual 001551
F1C6495.D ET0909F.M Mon Nov 25 14:20:49 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6495.D Vial: 50
Acq On : 11-22-02 8:35:12 PM Operator:
Sample : A1627-50A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:20 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6495.D ET0909F.M Mon Nov 25 14:20:53 2002 HPDOS9 001552 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6495.D Vial: 50
Acq On : 11-22-02 8:35:12 PM Operator:
Sample : A1627-50A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6495.D\FID1A

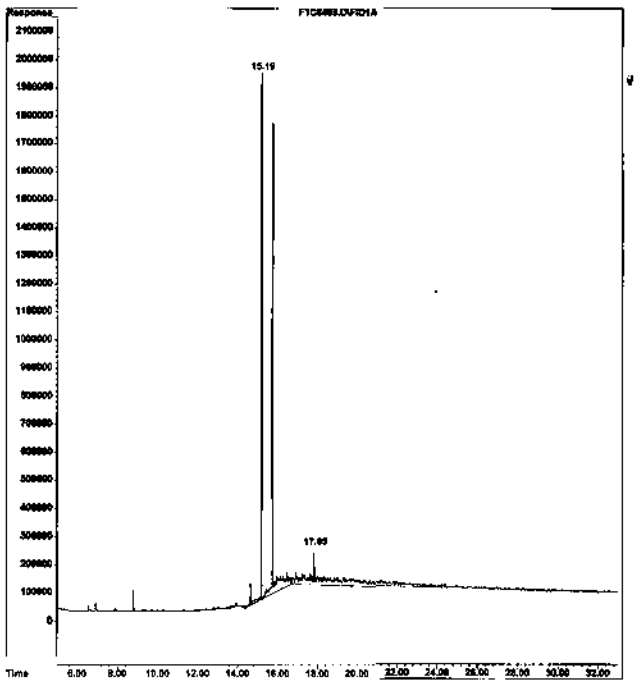
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.193	14.357	16.675	MI	880359	60574845	85.94%	46.218%
2	17.849	16.699	24.525	M	132639	70488778	100.00%	53.782%

Sum of corrected areas: 131063623

F1C6495.D ET0909F.M Wed Nov 27 14:40:13 2002 HPDOS9

001553

File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6495.D
Operator :
Acquired : 11-22-02 8:35:12 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-50A
Misc Info :
Vial Number: 50



001554

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6520.D Vial: 7
Acq On : 11-26-02 16:31:14 PM Operator:
Sample : A1627-51C Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 15:27 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.62	38615066	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.20	31386815	37.264	ng	
Spiked Amount	50.000		Recovery =	74.53%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

BMF
11/17/02

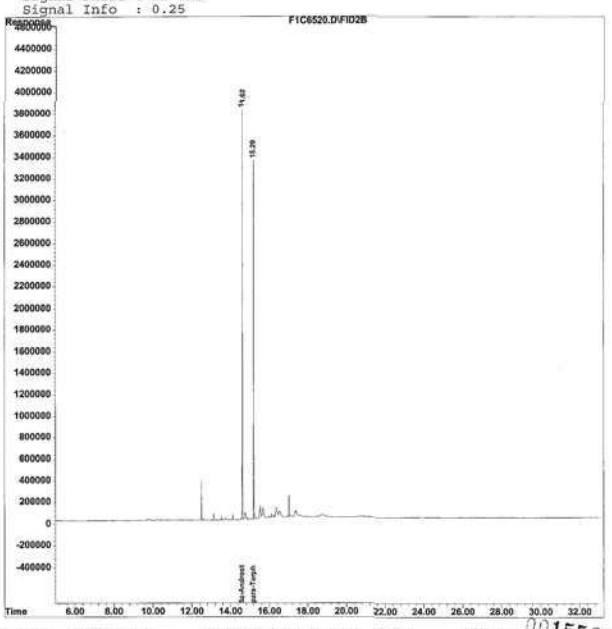
(f)=RT Delta > 1/2 Window (m)=manual 001555
F1C6520.D ET0909R.M Wed Nov 27 15:27:39 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6520.D Vial: 7
Acq On : 11-26-02 16:31:14 PM Operator:
Sample : A1627-51C Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 15:27 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6520.D ET0909R.M Wed Nov 27 15:27:46 2002 HPDOS9 Page 2
001556

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6520.D Vial: 7
Acq On : 11-26-02 16:31:14 PM Operator:
Sample : A1627-51C Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6520.D\FID2B

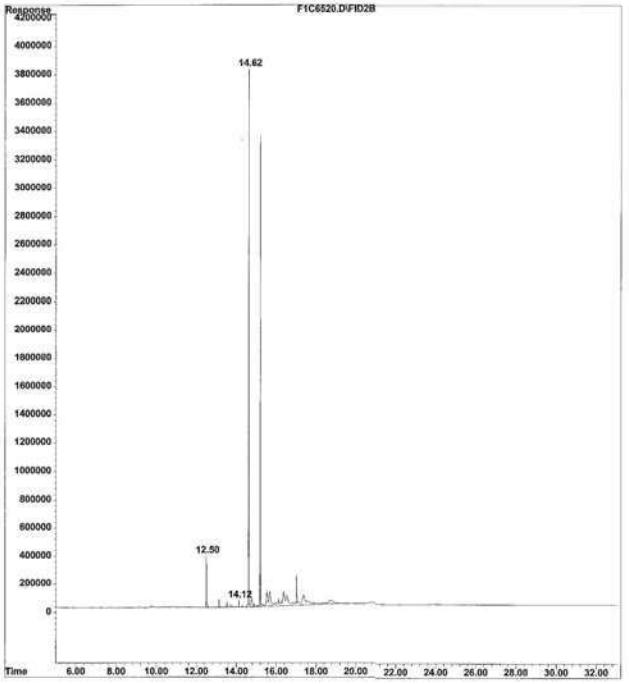
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	12.496	12.309	13.430	M	367932	4603637	3.50%	3.318%
2	14.124	13.436	14.392	M	46264	2460910	1.87%	1.774%
3	14.618	14.477	19.273	M	3803752	131669401	100.00%	94.908%

Sum of corrected areas: 138733948

F1C6520.D ET0909R.M Wed Nov 27 15:28:45 2002 HPDOS9

001557

File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6520.D
Operator :
Acquired : 11-26-02 16:31:14 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-51C
Misc Info :
Vial Number: 7



001558

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6496.D Vial: 51
Acq On : 11-22-02 9:17:42 PM Operator:
Sample : A1627-52A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:36 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.65	41094627	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.23	41629984	46.444	ng	
Spiked Amount	50.000		Recovery =	92.89%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	d
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF
11/25/02

01558A

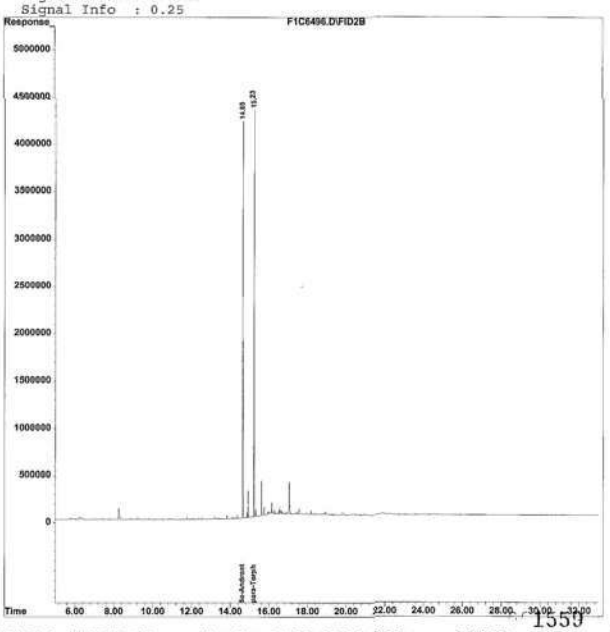
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6496.D ET0909R.M Mon Nov 25 11:37:06 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6496.D Vial: 51
Acq On : 11-22-02 9:17:42 PM Operator:
Sample : A1627-52A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:36 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



1558

F1C6496.D ET0909R.M Mon Nov 25 11:37:14 2002 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6496.D Vial: 51
Acq On : 11-22-02 9:17:42 PM Operator:
Sample : A1627-52A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6496.D\FID2B

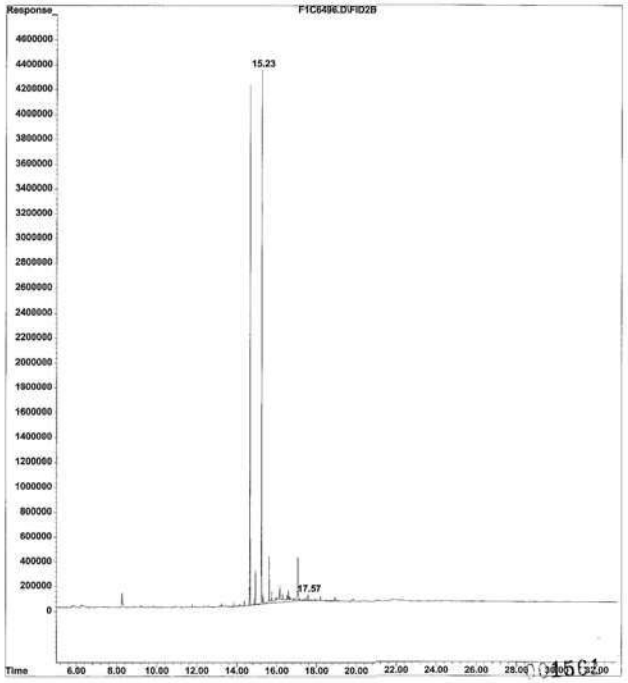
peak #	R.T. min	Start min	End min	PK	peak height	peak area	% max.	% of total
1	15.232	13.710	17.227	M	4306096	121743641	100.00%	93.968%
2	17.570	17.257	19.162	M	48683	7815563	6.42%	6.032%

Sum of corrected areas: 129559203

F1C6496.D ET0909R.M Mon Nov 25 11:38:06 2002 HPDOS9

001560

File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6496.D
Operator :
Acquired : 11-22-02 9:17:42 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-52A
Misc Info :
Vial Number: 51



1561

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6497.D Vial: 52
Acq On : 11-22-02 9:17:42 PM Operator:
Sample : A1627-53A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:22 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	15.19	18972461	40.000	ng	
	System Monitoring Compounds					
2) $	para-Terphenyl	15.75	18555403	45.087	ng	
Spiked Amount	50.000		Recovery =	90.17%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	
14)	OCTACOSANE C28	0.00	0	N.D.	ng	
15)	TRIACONTANE C30	0.00	0	N.D.	ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

BMF 11/25/02

001562

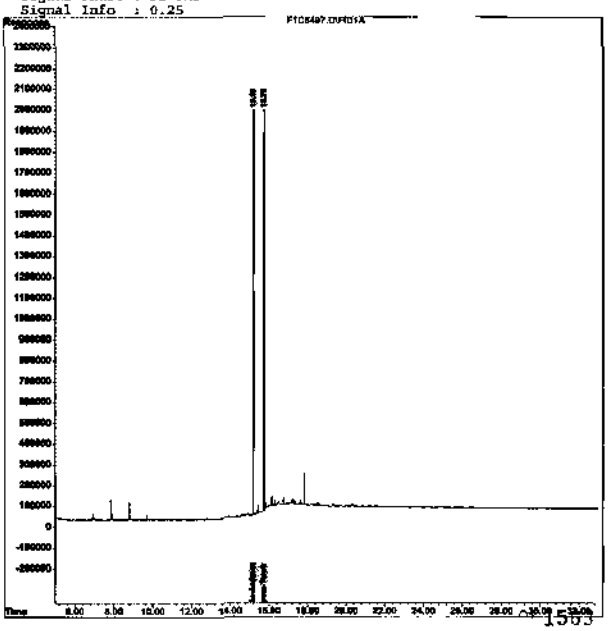
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6497.D ET0909F.M Mon Nov 25 14:22:44 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6497.D Vial: 52
Acq On : 11-22-02 9:17:42 PM Operator:
Sample : A1627-53A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 14:22 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001563

F1C6497.D ET0909F.M Mon Nov 25 14:22:48 2002 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6497.D Vial: 52
Acq On : 11-22-02 9:17:42 PM Operator:
Sample : A1627-53A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6497.D\FID1A

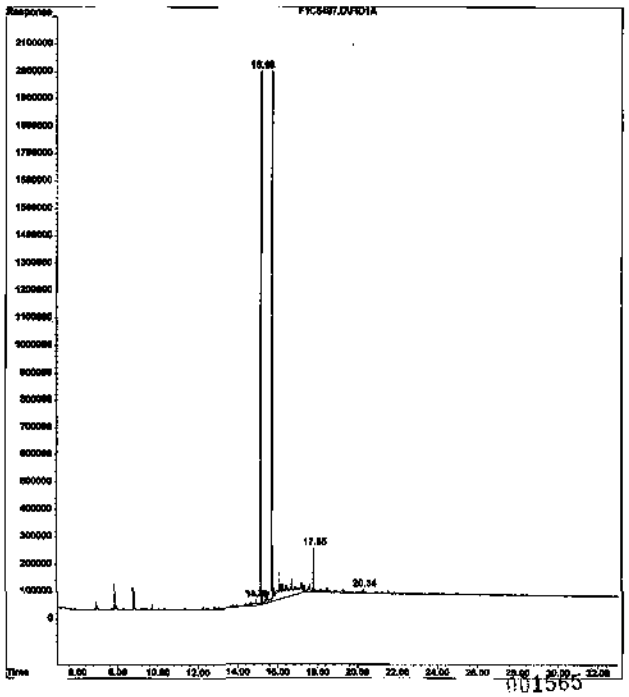
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.894	12.697	15.026	M	21100	4572198	6.93%	5.192%
2	15.191	15.046	17.395	M	1953195	65954518	100.00%	74.900%
3	17.848	17.447	19.169	M	161302	8316739	12.61%	9.445%
4	20.344	19.214	23.278	M	15065	9212870	13.97%	10.462%

Sum of corrected areas: 88056325

F1C6497.D ET0909F.M Wed Nov 27 14:43:40 2002 HPDOS9

001564

File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6497.D
Operator :
Acquired : 11-22-02 9:17:42 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-53A
Misc Info :
Vial Number: 52



001565

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6498.D Vial: 53
Acq On : 11-22-02 9:59:49 PM Operator:
Sample : A1627-56A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:39 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units	
	Internal Standards				
1) I	5a-Androstane	14.65	43125594	40.000 ng	
	System Monitoring Compounds				
2) S	para-Terphenyl	15.23	42589960	45.383 ng	
Spiked Amount	50.000		Recovery =	90.77%	
	Target Compounds				
3)	Nonane C9	0.00	0	N.D. ng	d
4)	DECANE C10	0.00	0	N.D. ng	d
5)	DODECANE C12	0.00	0	N.D. ng	d
6)	TETRADECANE C14	0.00	0	N.D. ng	d
7)	HEXADECANE C 16	0.00	0	N.D. ng	d
8)	OCTADECANE C18	0.00	0	N.D. ng	d
9)	NONADECANE C19	0.00	0	N.D. ng	d
10)	EICOSANE C20	0.00	0	N.D. ng	d
11)	DOCOSANE C22	0.00	0	N.D. ng	d
12)	TETRACOSANE C24	0.00	0	N.D. ng	d
13)	HEXACOSANE C26	0.00	0	N.D. ng	d
14)	OCTACOSANE C28	0.00	0	N.D. ng	d
15)	TRIACONTANE C30	0.00	0	N.D. ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D. ng	d

BMF 11/25/02

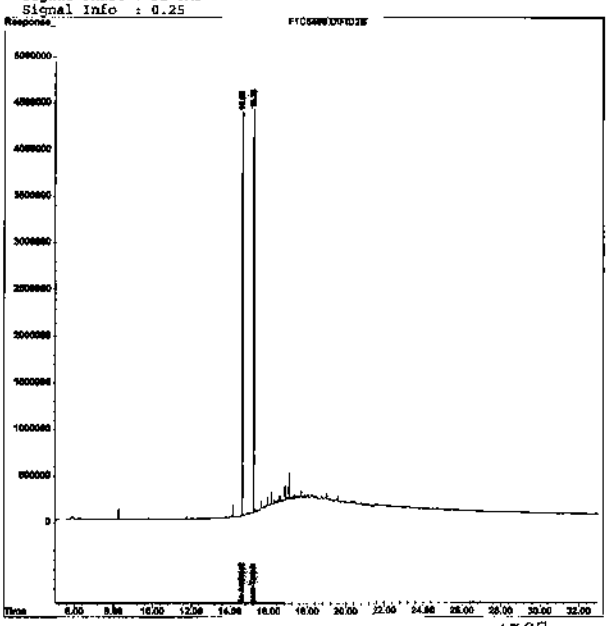
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6498.D Vial: 53
Acq On : 11-22-02 9:59:49 PM Operator:
Sample : A1627-56A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:39 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6498.D Vial: 53
Acq On : 11-22-02 9:59:49 PM Operator:
Sample : A1627-56A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

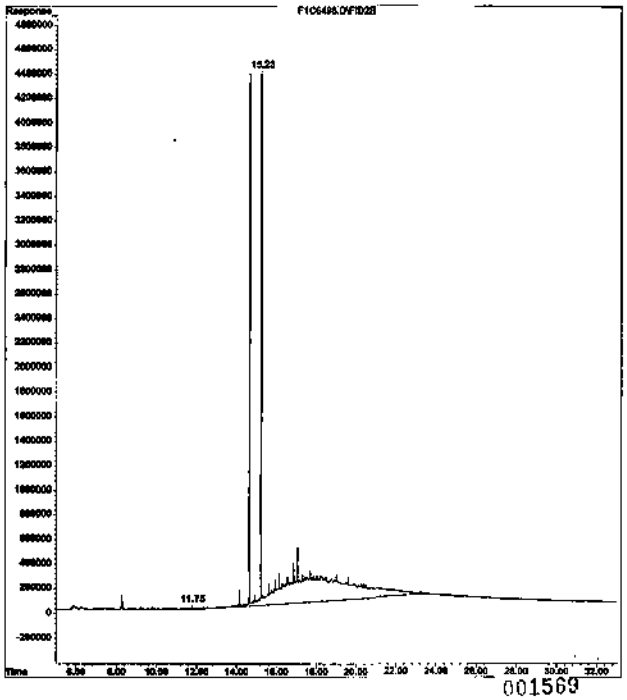
Signal : F1C6498.D\FID2B

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	11.754	11.154	12.785	M	31330	41621126	0.65%	0.650%
2	15.231	12.845	23.371	M	4366078	635691729	100.00%	99.350%

Sum of corrected areas: 639853355

F1C6498.D ET0909R.M Mon Nov 25 11:40:58 2002 HPDOS9

File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6498.D
Operator :
Acquired : 11-22-02 9:59:49 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-56A
Misc Info :
Vial Number: 53



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6529.D Vial: 16
Acq On : 11-26-02 19:20:31 PM Operator:
Sample : A1627-57A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 14:35 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	15.14	23249890	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.70	16108468	31.772	ng	
Spiked Amount	50.000		Recovery =	63.54%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF
11/27/02

1570

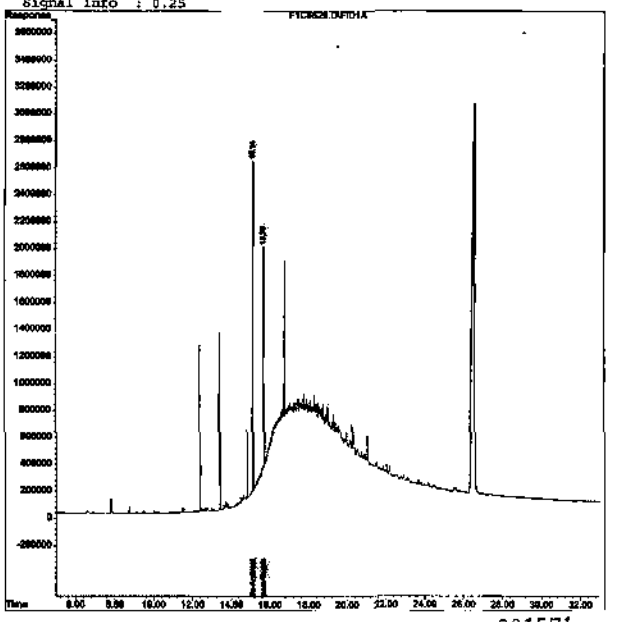
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6529.D ET0909F.M Wed Nov 27 14:35:39 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6529.D Vial: 16
Acq On : 11-26-02 19:20:31 PM Operator:
Sample : A1627-57A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 14:35 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6529.D ET0909F.M Wed Nov 27 14:35:43 2002 HPDOS9 001571 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6529.D Vial: 16
Acq On : 11-26-02 19:20:31 PM Operator:
Sample : A1627-57A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6529.D\FID1A

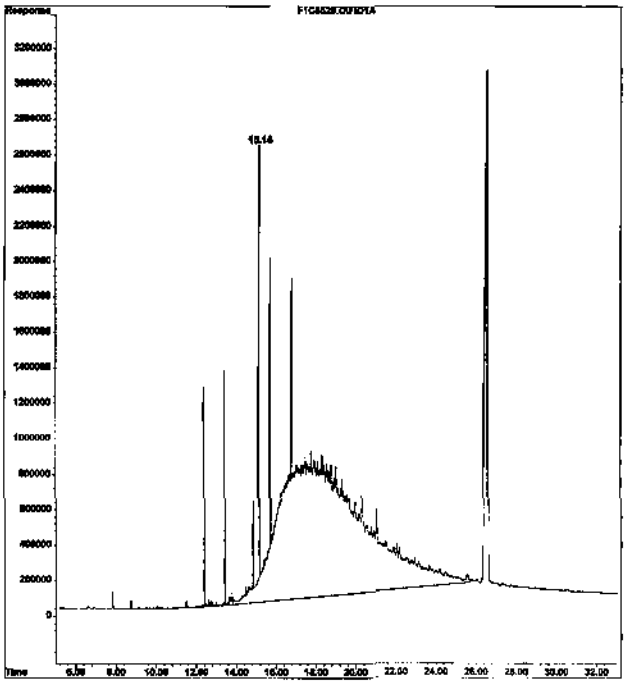
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.136	12.233	25.676	M	2579176	2420131228	100.00%	100.000%

Sum of corrected areas: 2420131228

F1C6529.D ET0909F.M Wed Nov 27 14:36:00 2002 HPDOS9

001572

File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6529.D
Operator :
Acquired : 11-26-02 19:20:31 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-57A
Misc Info :
Vial Number: 16



001573

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6500.D Vial: 55
Acq On : 11-22-02 10:41:54 PM Operator:
Sample : A1627-58A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:41 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units	
	Internal Standards				
1) I	5a-Androstane	14.65	44859293	40.000 ng	
	System Monitoring Compounds				
2) S	para-Terphenyl	15.23	44803564	45.789 ng	
Spiked Amount	50.000	Recovery	=	91.58%	
	Target Compounds				
3)	Nonane C9	0.00	0	N.D. ng	d
4)	DECANE C10	0.00	0	N.D. ng	d
5)	DODECANE C12	0.00	0	N.D. ng	d
6)	TETRADECANE C14	0.00	0	N.D. ng	d
7)	HEXADECANE C 16	0.00	0	N.D. ng	d
8)	OCTADECANE C18	0.00	0	N.D. ng	d
9)	NONADECANE C19	0.00	0	N.D. ng	d
10)	EICOSANE C20	0.00	0	N.D. ng	d
11)	DOCOSANE C22	0.00	0	N.D. ng	d
12)	TETRACOSANE C24	0.00	0	N.D. ng	d
13)	HEXACOSANE C26	0.00	0	N.D. ng	d
14)	OCTACOSANE C28	0.00	0	N.D. ng	d
15)	TRIACONTANE C30	0.00	0	N.D. ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D. ng	d

BMF 11/25/02

(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6500.D ET0909R.M Mon Nov 25 11:42:14 2002 HPDOS9 Page 1

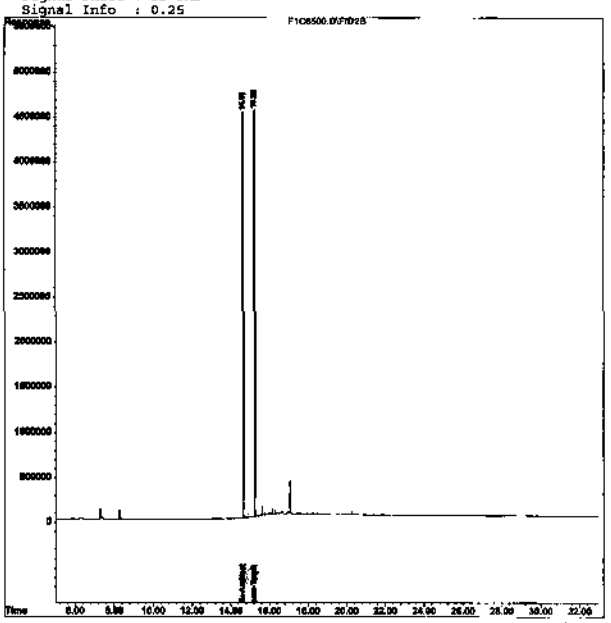
001574

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6500.D Vial: 55
Acq On : 11-22-02 10:41:54 PM Operator:
Sample : A1627-58A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:41 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6500.D ET0909R.M Mon Nov 25 11:42:22 2002 HPDOS9 Page 2

001575

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6500.D Vial: 55
Acq On : 11-22-02 10:41:54 PM Operator:
Sample : A1627-58A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6500.D\FID2B

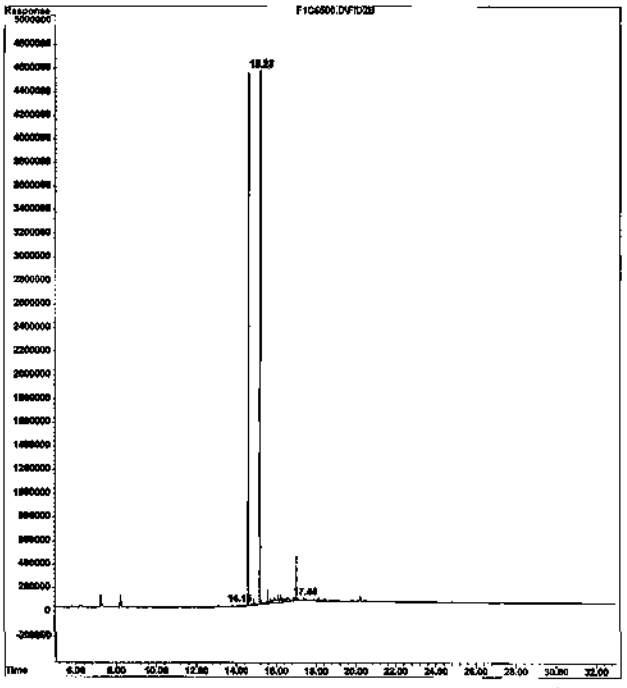
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.150	12.808	14.419	M	18787	2752698	2.38%	2.218%
2	15.231	14.457	17.242	M	4525430	115846474	100.00%	93.326%
3	17.441	17.292	19.965	M	2646S	5531178	4.77%	4.456%

Sum of corrected areas: 124130350

F1C6500.D ET0909R.M Mon Nov 25 11:42:56 2002 HPDOS9

001576

File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6500.D
Operator :
Acquired : 11-22-02 10:41:54 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-58A
Misc Info :
Vial Number: 55



001577

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6502.D Vial: 57
Acq On : 11-22-02 11:24:40 PM Operator:
Sample : A1627-59A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:44 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.65	43693133	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.23	38730565	40.639	ng	
Spiked Amount	50.000		Recovery =	81.28%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	d
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF 11/25/02 BMF 11/26/02

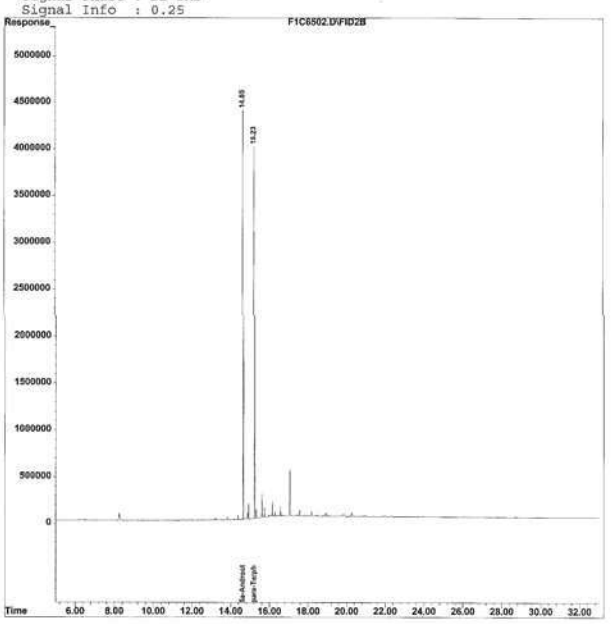
(f)=RT Delta > 1/2 Window (m)=manual int. 1578
F1C6502.D ET0909R.M Mon Nov 25 11:44:18 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6502.D Vial: 57
Acq On : 11-22-02 11:24:40 PM Operator:
Sample : A1627-59A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:44 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6502.D ET0909R.M Mon Nov 25 11:44:25 2002 HPDOS9 1579 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6502.D Vial: 57
Acq On : 11-22-02 11:24:40 PM Operator:
Sample : A1627-59A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6502.D\FID2B

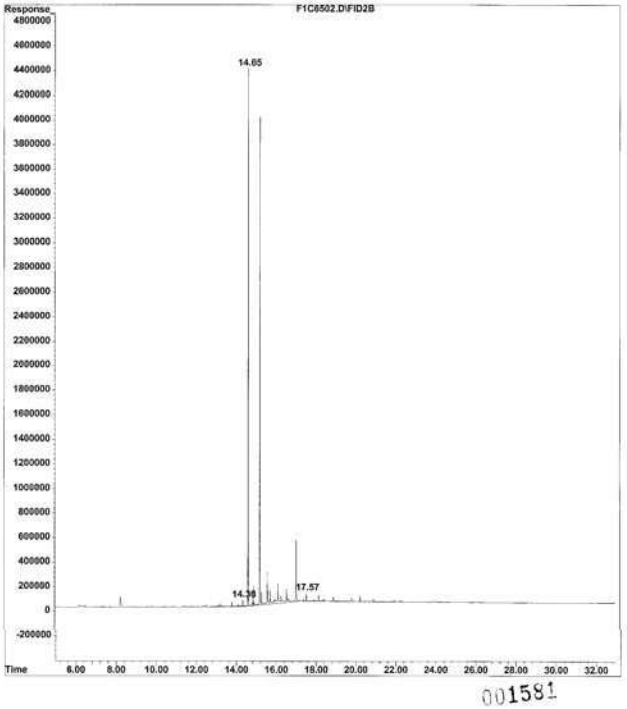
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.376	12.839	14.499	M	54376	5944384	4.96%	4.166%
2	14.646	14.539	17.268	M	4377346	119746670	100.00%	83.913%
3	17.569	17.347	22.409	M	67316	17013024	14.21%	11.922%

Sum of corrected areas: 142704078

F1C6502.D ET0909R.M Mon Nov 25 11:44:51 2002 HPDOS9

001580

File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6502.D
Operator :
Acquired : 11-22-02 11:24:40 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1627-59A
Misc Info :
Vial Number: 57



001581

front column

Response Factors ETPH—09/09/02

Conc. (ug/ml)	Level1A 5	Level 1 25	Level 2 50	Level 3 100	Level 4 200	Level 5 400
5a-Androstane	18729008	21758792	21228740	22325297	22512065	22689086
para-Terphenyl	2126519	11399419	23160835	47569415	100136168	197811162
Nonane C9	2307706	12470286	24635479	49752997	103272300	203188776
Decane C10	2318985	12530578	24739663	49983856	103897356	204501080
Dodecane C12	2342797	12622388	24901267	50389614	104909086	206409340
Tetradecane C14	2383657	12838505	25322960	51253459	106842070	210210099
Hexadecane C16	2354478	12671399	25054648	50745807	105940458	208457448
Octadecane C18	2324985	12504248	24885796	50481246	105637620	207977714
Nonadecane C19	2325955	12453968	24822467	50438467	105685323	208195532
Eicosane C20	2301585	12294385	24548534	49917193	104780770	206742689
Docosane C22	2259453	12352989	24637719	50052964	105260290	208817055
Tetracosane C24	2259453	11993292	24040108	48937307	103197088	205650806
Hexacosane C26	2259694	12071721	24160081	49253482	103847131	206809534
Octacosane C28	2218095	11859172	23760494	48428236	102368747	203959038
Triacontane C30	2167932	11620827	23375159	47746791	101350833	202421732
Hexatriacontane C36	2037541	10520283	21272548	43985335	94636773	189478742
RRF of C9-C36	0.9721	0.8971	0.9157	0.8848	0.9212	0.9044

Mean= 0.9159 Std.Dev= 0.0305 RSD(%)= 3.3264

001582

Response Factor Report F1

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002

Calibration Files
CON1 =F1C5085.D CON2 =F1C5087.D CON3 =F1C5089.D
CON4 =F1C5091.D CON5 =F1C5093.D CONA =F1C5083.D

	Compound	CON1	CON2	CON3	CON4	CON5	CONA	Avg		%RSD
1) I	5a-Androstane	ISTD								
2) S	para-Terphenyl	0.838	0.872	0.852	0.890	0.872	0.908	0.872	0	2.88
3)	Nonane C9	0.917	0.928	0.891	0.917	0.896	0.986	0.923	0	3.69
4)	DECANE C10	0.921	0.932	0.896	0.923	0.901	0.991	0.927	0	3.66
5)	DODECANE C12	0.928	0.938	0.903	0.932	0.910	1.001	0.935	0	3.72
6)	TETRADECANE C14	0.944	0.954	0.918	0.949	0.926	1.018	0.952	0	3.71
7)	HEXADECANE C 16	0.932	0.944	0.909	0.941	0.919	1.006	0.942	0	3.61
8)	OCTADECANE C18	0.919	0.938	0.905	0.938	0.917	0.993	0.935	0	3.35
9)	NONADECANE C19	0.916	0.935	0.904	0.939	0.918	0.994	0.934	0	3.41
10)	EICOSANE C20	0.904	0.925	0.894	0.931	0.911	0.983	0.925	0	3.41
11)	DOCOSANE C22	0.908	0.928	0.897	0.935	0.920	0.965	0.926	0	2.56
12)	TETRACOSANE C24	0.882	0.906	0.877	0.917	0.906	0.965	0.909	0	3.48
13)	HEXACOSANE C26	0.888	0.911	0.882	0.923	0.912	0.974	0.915	0	3.58
14)	OCTACOSANE C28	0.872	0.895	0.868	0.910	0.899	0.947	0.899	0	3.22
15)	TRIACONTANE C30	0.855	0.881	0.855	0.900	0.892	0.926	0.885	0	3.11
16)	HEXATRIACONTANE C36	0.774	0.802	0.788	0.841	0.835	0.870	0.818	0	4.47

(#) = Out of Range
ET0909F.M Mon Sep 09 14:47:26 2002 HP5059 001583 Page 1

"SEC" in raw data filename

rear column

Response Factors ETPH—09/09/02

Conc. (ug/ml)	Level1A 5	Level 1 25	Level 2 50	Level 3 100	Level 4 200	Level 5 400
5a-Androstane	25563051	28329528	28560031	29289083	29719908	31290386
para-Terphenyl	2603070	15153647	31942630	63981147	134940592	277787178
Nonane C9	2352045	14777168	30874445	61822995	133727960	271580603
Decane C10	2630621	15249335	31456408	62554210	134920120	273956928
Dodecane C12	2719172	15345328	31592843	63257855	136373059	276821953
Tetradecane C14	2945168	16063852	32835555	64926716	138829830	281068448
Hexadecane C16	3102284	16220260	32861519	64671052	137384976	278522574
Octadecane C18	3160351	16398182	33110144	65056420	137654322	280210868
Nonadecane C19	3235332	16550647	33384712	65577031	138343382	282127227
Eicosane C20	3239072	16525991	33324703	65496287	137907856	281629349
Docosane C22	3385399	16997651	34137714	67054178	140322935	286851532
Tetracosane C24	3253007	16743798	33843677	66678277	139127585	285490399
Hexacosane C26	3327329	17111063	34671512	68250068	142012987	291759164
Octacosane C28	3278843	16946542	34478533	67908486	141384018	291209463
Triacontane C30	3166210	16533097	33779598	66731155	139472302	288753428
Hexatriacontane C36	2303152	11804775	24713224	49585338	107700040	233984579
RRF of C9-C36	0.9413	0.9007	0.9105	0.8775	0.9157	0.8913

Mean= 0.9061 Std.Dev= 0.0220 RSD(%)= 2.4245

001584

Response Factor Report F1

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002

Calibration Files
CON1 =F1C5086.D CON2 =F1C5088.D CON3 =F1C5090.D
CON4 =F1C5092.D CON5 =F1C5094.D CONA =F1C5084.D

	Compound	CON1	CON2	CON3	CON4	CON5	CONA	Avg		%RSD
1) I	5a-Androstane	ISTD								
2) S	para-Terphenyl	0.856	0.895	0.874	0.908	0.888	0.815	0.872	0	3.84
3)	Nonane C9	0.835	0.865	0.844	0.900	0.868	0.736	0.841	0	6.69
4)	DECANE C10	0.861	0.881	0.854	0.908	0.876	0.823	0.867	0	3.28
5)	DODECANE C12	0.867	0.885	0.864	0.918	0.885	0.851	0.878	0	2.66
6)	TETRADECANE C14	0.907	0.920	0.887	0.933	0.898	0.922	0.911	0	1.86
7)	HEXADECANE C 16	0.916	0.920	0.883	0.925	0.891	0.971	0.918	0	3.37
8)	OCTADECANE C18	0.926	0.927	0.888	0.926	0.896	0.989	0.925	0	3.84
9)	NONADECANE C19	0.935	0.935	0.896	0.931	0.902	1.013	0.935	0	4.46
10)	EICOSANE C20	0.933	0.933	0.895	0.928	0.900	1.014	0.934	0	4.57
11)	DOCOSANE C22	0.960	0.956	0.916	0.944	0.917	1.059	0.959	0	5.51
12)	TETRACOSANE C24	0.946	0.948	0.911	0.936	0.912	1.021	0.946	0	4.26
13)	HEXACOSANE C26	0.966	0.971	0.932	0.956	0.932	1.041	0.967	0	4.16
14)	OCTACOSANE C28	0.957	0.966	0.927	0.951	0.931	1.026	0.960	0	3.73
15)	TRIACONTANE C30	0.934	0.946	0.911	0.939	0.923	0.991	0.941	0	2.92
16)	HEXATRIACONTANE C36	0.667	0.692	0.677	0.725	0.748	0.721	0.705	0	4.43

(#) = Out of Range
ET0909R.M Mon Sep 09 12:07:46 2002 HP5059 001585 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5083.D Vial: 1
Acq On : 9-6-02 17:41:05 PM Operator:
Sample : ETPH L1A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:19 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.41	18729008	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.96	2126619	4.481 ng
Spiked Amount	50.000	Recovery	=	8.96%
	Target Compounds			
3)	Nonane C9	8.77	2807706	5.511 ng
4)	DECANE C10	9.69	2816985	5.376 ng
5)	DODECANE C12	11.09	2042797	5.406 ng
6)	TETRADECANE C14	12.24	2883657	5.379 ng
7)	HEXADECANE C 16	13.24	2854178	5.226 ng
8)	OCTADECANE C18	14.14	2824995	5.025 ng
9)	NONADECANE C19	14.56	2825955	5.021 ng
10)	EICOSANE C20	14.96	2801585	4.946 ng
11)	DOCOSANE C22	15.70	2259453	4.791 ng
12)	TETRACOSANE C24	16.41	2259594	4.837 ng
13)	HEXACOSANE C26	17.20	2280254	4.836 ng
14)	OCTACOSANE C28	18.17	2218095	4.753 ng
15)	TRIACONTANE C30	19.45f	2167932	4.700 ng
16)	HEXATRIACONTANE C36	27.36	2037541	4.959 ng

emf 9/9/02

emf 9/9/02

(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5083.D ET0717F.M Mon Sep 09 14:19:26 2002 HPDOS9 Page 1

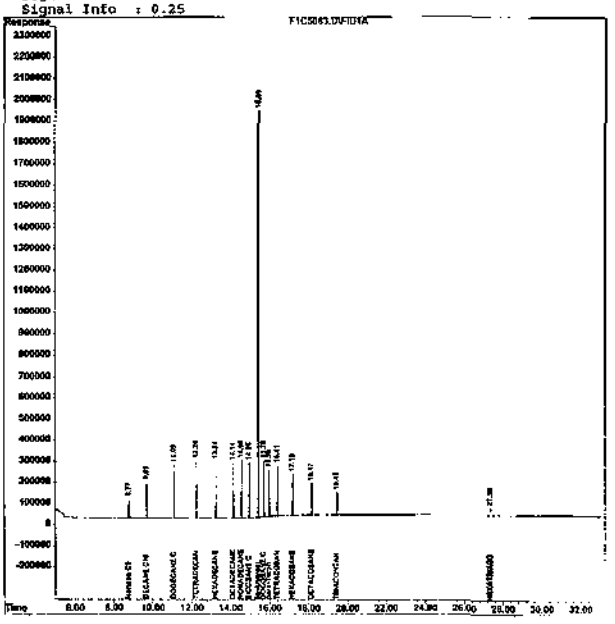
001586

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5083.D Vial: 1
Acq On : 9-6-02 17:41:05 PM Operator:
Sample : ETPH L1A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:19 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



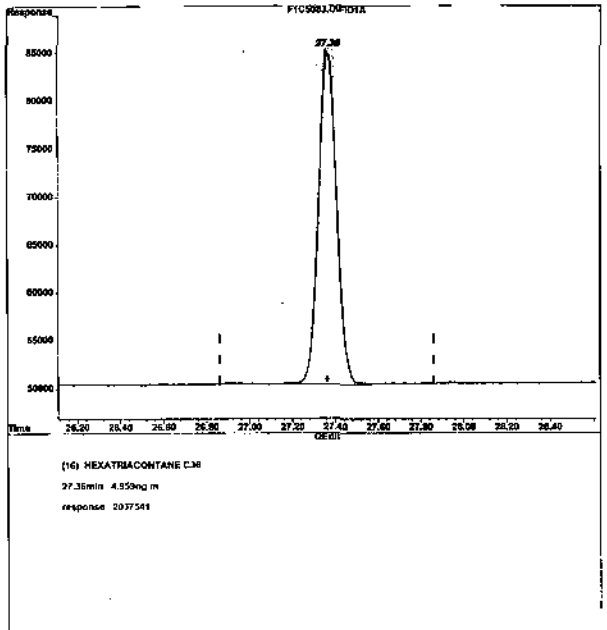
F1C5083.D ET0717F.M Mon Sep 09 14:19:32 2002 HPDOS9

001587

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5083.D Vial: 1
Acq On : 9-6-02 17:41:05 PM Operator:
Sample : ETPH L1A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:18 19102 Quant Results File: ET0717F.RES

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Multiple Level Calibration



(+) = Expected Retention Time
F1C5083.D ET0717F.M Mon Sep 09 14:19:07 2002 HPDOS9

001588

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5085.D Vial: 2
Acq On : 9-6-02 18:22:35 PM Operator:
Sample : ETPH L1 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:20 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integ
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.42	21758792	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.96	11399419	20.678 ng
Spiked Amount	50.000	Recovery	=	41.36%
	Target Compounds			
3)	Nonane C9	8.77	12470286	25.634 ng
4)	DECANE C10	9.69	12530578	25.002 ng
5)	DODECANE C12	11.09	12622586	25.071 ng
6)	TETRADECANE C14	12.24	12838605	24.936 ng
7)	HEXADECANE C 16	13.24	12671399	24.208 ng
8)	OCTADECANE C18	14.14	12504246	23.260 ng
9)	NONADECANE C19	14.56	12453968	23.142 ng
10)	EICOSANE C20	14.96	12290365	22.739 ng
11)	DOCOSANE C22	15.70	12052989	22.548 ng
12)	TETRACOSANE C24	16.41	11993302	22.096 ng
13)	HEXACOSANE C26	17.20	12071721	22.037 ng
14)	OCTACOSANE C28	18.17	11859172	21.875 ng
15)	TRIACONTANE C30	19.46f	11620827	21.687 ng
16)	HEXATRIACONTANE C36	27.39	10520283	22.040 ng

emf 9/9/02

(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5085.D ET0717F.M Mon Sep 09 14:21:20 2002 HPDOS9 Page 1

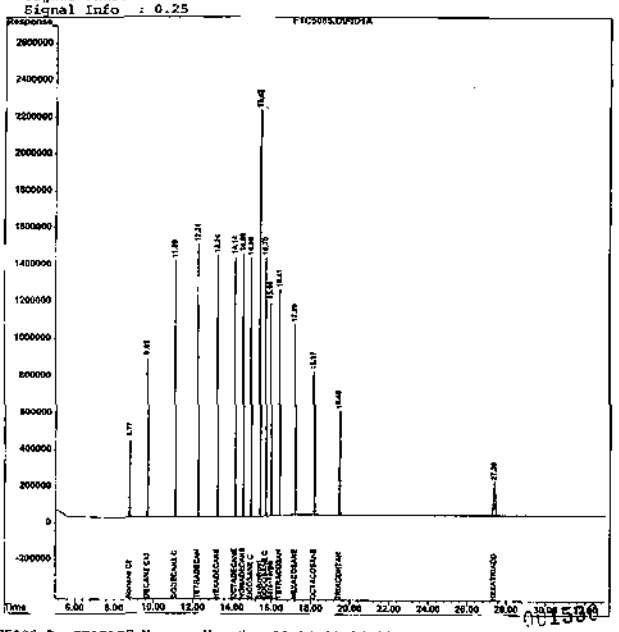
001589

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5085.D Vial: 2
Acq On : 9-6-02 18:22:35 PM Operator:
Sample : ETPH L1 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:20 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001590

F1C5085.D ET0717F.M Mon Sep 09 14:21:26 2002 HPDOS9 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5087.D Vial: 3
Acq On : 9-6-02 19:04:39 PM Operator:
Sample : ETPH L2 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:22 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5a-Androstane	15.42	21228740	40.000 ng
System Monitoring Compounds			
2) S para-Terphenyl	15.97	23160835	43.061 ng
Spiked Amount 50.000	Recovery	=	86.12%
Target Compounds			
3) Nonane C9	8.78	24635479	51.906 ng
4) DECANE C10	9.70	24739663	50.596 ng
5) DODECANE C12	11.10	24901267	50.694 ng
6) TETRADECANE C14	12.24	25322960	50.412 ng
7) HEXADECANE C 16	13.25	25054648	49.060 ng
8) OCTADECANE C18	14.15	24885796	47.448 ng
9) NONADECANE C19	14.56	24822467	47.277 ng
10) EICOSANE C20	14.96	24546534	46.534 ng
11) DOCOSANE C22	15.71	24637719	46.094 ng
12) TETRACOSANE C24	16.41	24040109	45.396 ng
13) HEXACOSANE C26	17.20	24180081	45.243 ng
14) OCTACOSANE C28	18.18	23760494	44.923 ng
15) TRIACONTANE C30	19.46f	23375159	44.712 ng
16) HEXATRIACONTANE C36	27.40	21272549	45.678 ng

BMF 9/9/02

001591

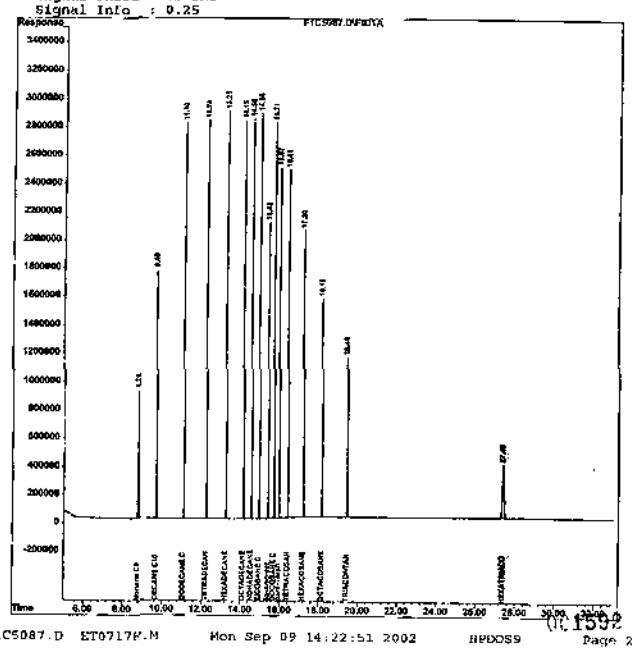
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5087.D ET0717F.M Mon Sep 09 14:22:46 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5087.D Vial: 3
Acq On : 9-6-02 19:04:39 PM Operator:
Sample : ETPH L2 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:22 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integ
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001592

F1C5087.D ET0717F.M Mon Sep 09 14:22:51 2002 HPDOS9 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5089.D Vial: 4
Acq On : 9-6-02 19:46:54 PM Operator:
Sample : ETPH L3 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:23 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5a-Androstane	15.42	22325297	40.000 ng
System Monitoring Compounds			
2) S para-Terphenyl	15.97	47569615	84.098 ng
Spiked Amount 50.000	Recovery	=	168.20%
Target Compounds			
3) Nonane C9	8.78	49752997	99.679 ng
4) DECANE C10	9.70	49983856	97.202 ng
5) DODECANE C12	11.10	50289514	97.545 ng
6) TETRADECANE C14	12.24	51253459	97.022 ng
7) HEXADECANE C 16	13.25	50745807	94.486 ng
8) OCTADECANE C18	14.15	50491246	91.540 ng
9) NONADECANE C19	14.56	50438467	91.346 ng
10) EICOSANE C20	14.96	49917191	89.983 ng
11) DOCOSANE C22	15.71	50052964	89.042 ng
12) TETRACOSANE C24	16.42	48937307	87.872 ng
13) HEXACOSANE C26	17.21	45253482	87.631 ng
14) OCTACOSANE C28	18.18	48428236	87.064 ng
15) TRIACONTANE C30	19.47f	47746791	86.844 ng
16) HEXATRIACONTANE C36	27.43	43985335	89.810 ng

BMF 9/9/02

001593

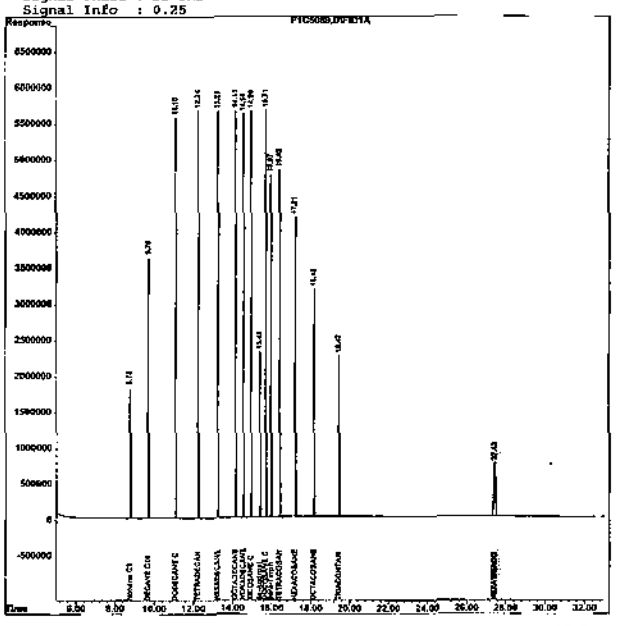
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5089.D ET0717F.M Mon Sep 09 14:24:51 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5089.D Vial: 4
Acq On : 9-6-02 19:46:54 PM Operator:
Sample : ETPH L3 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:23 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5091.D Vial: 5
Acq On : 9-6-02 20:29:08 PM Operator:
Sample : ETPH L4 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:25 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5a-Androstane	15.42	22512065	40.000 ng
System Monitoring Compounds			
2) S para-Terphenyl	15.98	100136188	175.562 ng
Spiked Amount 50.000		Recovery =	351.12%
Target Compounds			
3) Nonane C9	8.78	103272300	205.186 ng
4) DECANE C10	9.70	103897856	200.370 ng
5) DODECANE C12	11.10	104909086	201.400 ng
6) TETRADECANE C14	12.25	106842070	200.572 ng
7) HEXADECANE C 16	13.25	105940458	195.619 ng
8) OCTADECANE C18	14.15	105637620	189.930 ng
9) NONADECANE C19	14.57	105685323	189.813 ng
10) EICOSANE C20	14.97	104780770	187.315 ng
11) DOCOSANE C22	15.71	105260290	185.703 ng
12) TETRACOSANE C24	16.42	103197088	183.764 ng
13) HEXACOSANE C26	17.21	102917131	183.355 ng
14) OCTACOSANE C28	18.19	102388747	182.547 ng
15) TRIACONTANE C30	19.49f	101350833	182.813 ng
16) HEXATRIACONTANE C36	27.47	94636773	191.629 ng

BMF 9/9/02

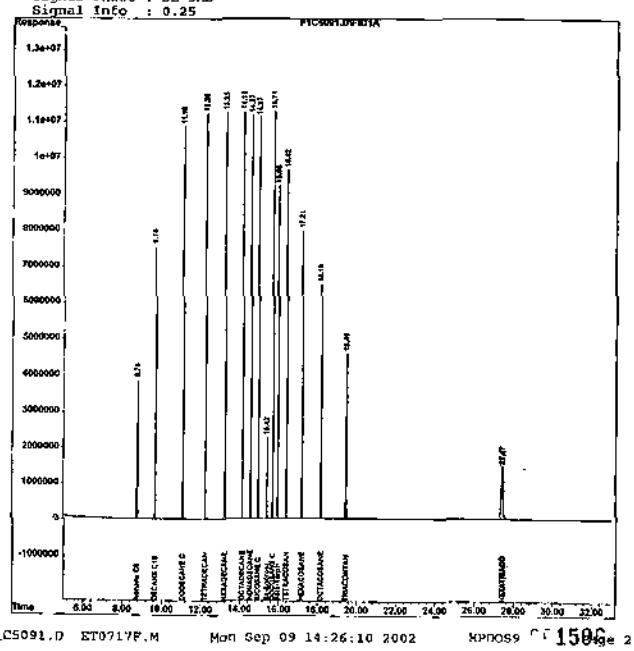
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5091.D Vial: 5
Acq On : 9-6-02 20:29:08 PM Operator:
Sample : ETPH L4 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:25 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5093.D Vial: 6
Acq On : 9-6-02 21:11:13 PM Operator:
Sample : ETPH L5 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:26 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5a-Androstane	15.42	22589086	40.000 ng
System Monitoring Compounds			
2) S para-Terphenyl	15.98	197911162	344.277 ng
Spiked Amount 50.000		Recovery =	688.55%
Target Compounds			
3) Nonane C9	8.78	203189776	400.558 ng
4) DECANE C10	9.70	204501080	391.311 ng
5) DODECANE C12	11.11	206409340	393.165 ng
6) TETRADECANE C14	12.25	210210099	391.544 ng
7) HEXADECANE C 16	13.26	209457446	381.914 ng
8) OCTADECANE C18	14.16	207977714	371.015 ng
9) NONADECANE C19	14.57	208195632	371.005 ng
10) EICOSANE C20	14.97	206742689	366.708 ng
11) DOCOSANE C22	15.72	208817055	365.522 ng
12) TETRACOSANE C24	16.43	205650806	363.347 ng
13) HEXACOSANE C26	17.22	206869534	362.159 ng
14) OCTACOSANE C28	18.20	203959038	360.797 ng
15) TRIACONTANE C30	19.50f	202421732	362.272 ng
16) HEXATRIACONTANE C36	27.54	185478842	380.679 ng

BMF 9/9/02

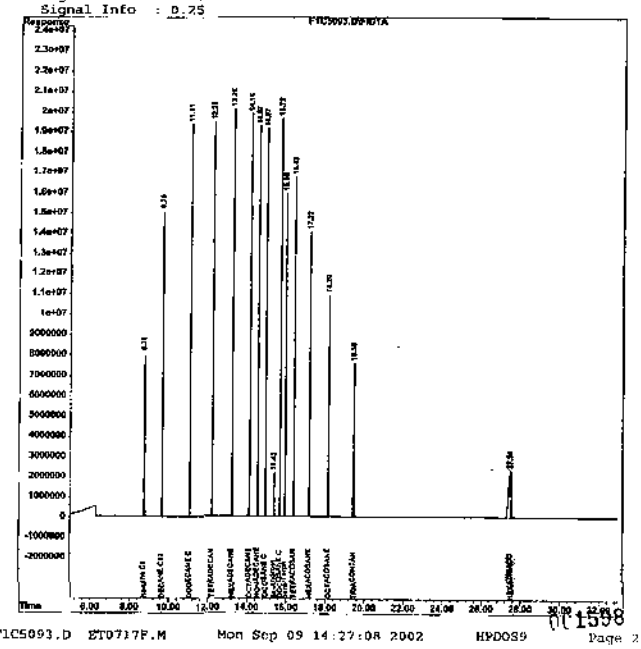
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5093.D Vial: 6
Acq On : 9-6-02 21:11:13 PM Operator:
Sample : ETPH L5 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:26 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integ)
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001598

F1C5093.D ET0717F.M Mon Sep 09 14:27:08 2002 HPDOS9 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5084.D Vial: 1
Acq On : 9-6-02 18:22:35 PM Operator:
Sample : ETPH L1A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:19 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.88	25563051	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.46	2603070	4.156 ng
Spiked Amount	50.000	Recovery	=	8.31%
	Target Compounds			
3)	Nonane C9	8.22	2352045	4.469 ng
4)	DECANE C10	9.18	2630521	4.872 ng
5)	DODECANE C12	10.60	2719172	4.828 ng
6)	TETRADECANE C14	11.75	2945168	5.103 ng
7)	HEXADECANE C 16	12.74	3102284	5.196 ng
8)	OCTADECANE C18	13.63	3160351	5.156 ng
9)	NONADECANE C19	14.05	3235932	5.287 ng
10)	EICOSANE C20	14.44	3239072	5.245 ng
11)	DOCOSANE C22	15.18	3385399	5.369 ng
12)	TETRACOSANE C24	15.86	3263007	5.206 ng
13)	HEXACOSANE C26	16.53	3327329	5.203 ng
14)	OCTACOSANE C28	17.31	3278843	5.120 ng
15)	TRIACONTANE C30	18.31	3166210	4.936 ng
16)	HEXATRIACONTANE C36	24.21	2303152	3.738 ng m

BMF 9/9/02

BMF 9/9/02

(f)=RT Delta > 1/2 Window (m)=manual
F1C5084.D ET0717R.M Mon Sep 09 11:19:04 2002 HPDOS9 Page 1

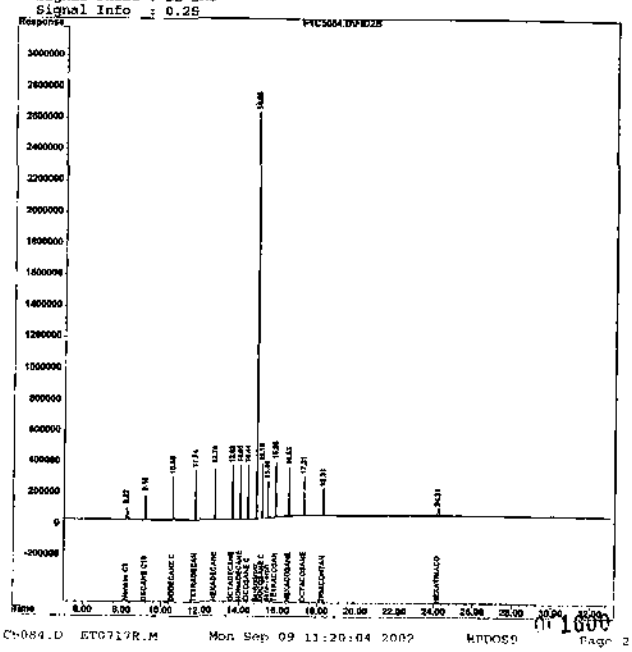
001599

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5084.D Vial: 1
Acq On : 9-6-02 18:22:35 PM Operator:
Sample : ETPH L1A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:19 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



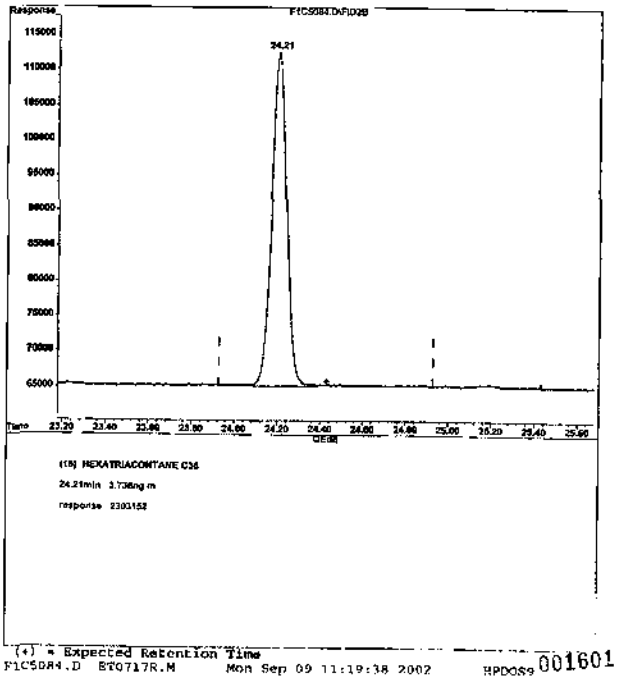
001600

F1C5084.D ET0717R.M Mon Sep 09 11:20:04 2002 HPDOS9 Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5084.D Vial: 1
Acq On : 9-6-02 18:22:35 PM Operator:
Sample : ETPH L1A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:18 19102 Quant Results File: ET0717R.RES

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Multiple Level Calibration



(+) = Expected Retention Time
F1C5084.D ET0717R.M Mon Sep 09 11:19:38 2002 HPDOS9

001601

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5086.D Vial: 2
Acq On : 9-6-02 19:04:39 PM Operator:
Sample : ETPH L1 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:20 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.89	28329528	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.46	15153547	21.833 ng
Spiked Amount	50.000	Recovery	=	43.67%
	Target Compounds			
3)	Nonane C9	8.22	14777168	25.334 ng
4)	DECANE C10	9.18	15249335	25.484 ng
5)	DODECANE C12	10.60	15345328	24.584 ng
6)	TETRADECANE C14	11.75	16063852	25.114 ng
7)	HEXADECANE C 16	12.74	16220260	24.515 ng
8)	OCTADECANE C18	13.64	16398182	24.138 ng
9)	NONADECANE C19	14.05	16550647	24.404 ng
10)	EICOSANE C20	14.44	16525991	24.148 ng
11)	DOCOSANE C22	15.18	16997651	24.304 ng
12)	TETRACOSANE C24	15.86	16743798	24.104 ng
13)	HEXACOSANE C26	16.54	17111063	24.146 ng
14)	OCTACOSANE C28	17.32	16948542	23.881 ng
15)	TRIACONTANE C30	18.32	16533097	23.258 ng
16)	HEXATRIACONTANE C36	24.22	11804775	17.290 ng

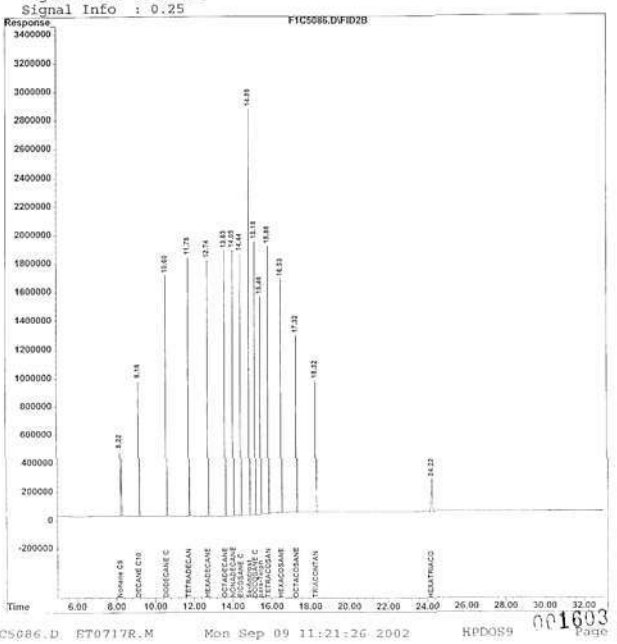
BMF 9/9/02

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5086.D Vial: 2
Acq On : 9-6-02 19:04:39 PM Operator:
Sample : ETPH L1 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:20 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5088.D Vial: 3
Acq On : 9-6-02 19:46:55 PM Operator:
Sample : ETPH L2 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:21 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.89	28560031	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.46	31942630	45.651 ng
Spiked Amount	50.000	Recovery	=	91.30%
	Target Compounds			
3)	Nonane C9	8.22	30874445	52.503 ng
4)	DECANE C10	9.18	31456806	52.144 ng
5)	DODECANE C12	10.60	31592843	50.204 ng
6)	TETRADECANE C14	11.75	32835555	50.920 ng
7)	HEXADECANE C 16	12.74	32861519	49.265 ng
8)	OCTADECANE C18	13.64	33110144	48.345 ng
9)	NONADECANE C19	14.05	33364712	48.800 ng
10)	EICOSANE C20	14.45	33324703	48.302 ng
11)	DOCOSANE C22	15.19	34137714	48.419 ng
12)	TETRACOSANE C24	15.87	33843677	48.327 ng
13)	HEXACOSANE C26	16.54	34671512	48.531 ng
14)	OCTACOSANE C28	17.32	34478533	48.189 ng
15)	TRIACONTANE C30	18.32	33779598	47.136 ng
16)	HEXATRIACONTANE C36	24.23	24713224	35.904 ng

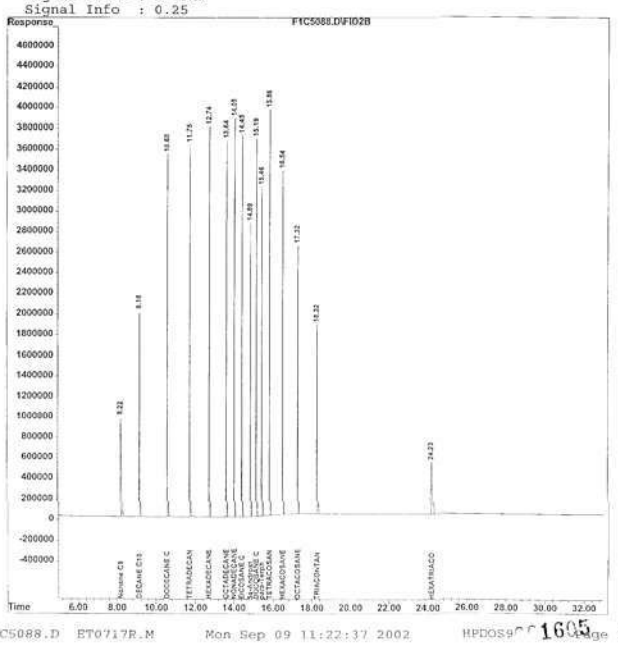
BMF 9/9/02

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5088.D Vial: 3
Acq On : 9-6-02 19:46:55 PM Operator:
Sample : ETPH L2 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:21 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5090.D Vial: 4
Acq On : 9-6-02 20:29:07 PM Operator:
Sample : ETPH L3 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:23 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.89	29289083	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.47	63981147	89.163 ng
Spiked Amount	50.000	Recovery	=	178.33%
	Target Compounds			
3)	Nonane C9	8.22	61822995	102.516 ng
4)	DECANE C10	9.18	62554210	101.112 ng
5)	DODECANE C12	10.60	63257655	98.021 ng
6)	TETRADECANE C14	11.75	64926716	98.178 ng
7)	HEXADECANE C 16	12.75	64571052	94.540 ng
8)	OCTADECANE C18	13.64	65056420	92.627 ng
9)	NONADECANE C19	14.05	65577031	93.527 ng
10)	EICOSANE C20	14.45	65498287	92.573 ng
11)	DOCOSANE C22	15.19	67054178	92.738 ng
12)	TETRACOSANE C24	15.87	66678277	92.843 ng
13)	HEXACOSANE C26	16.54	68250068	93.154 ng
14)	OCTACOSANE C28	17.32	67908486	92.551 ng
15)	TRIACONTANE C30	18.33	66731155	90.799 ng
16)	HEXATRIACONTANE C36	24.24	49585338	70.246 ng

BMF 9/9/02

(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5090.D ET0717R.M Mon Sep 09 11:23:39 2002 HPDOS9 Page 1

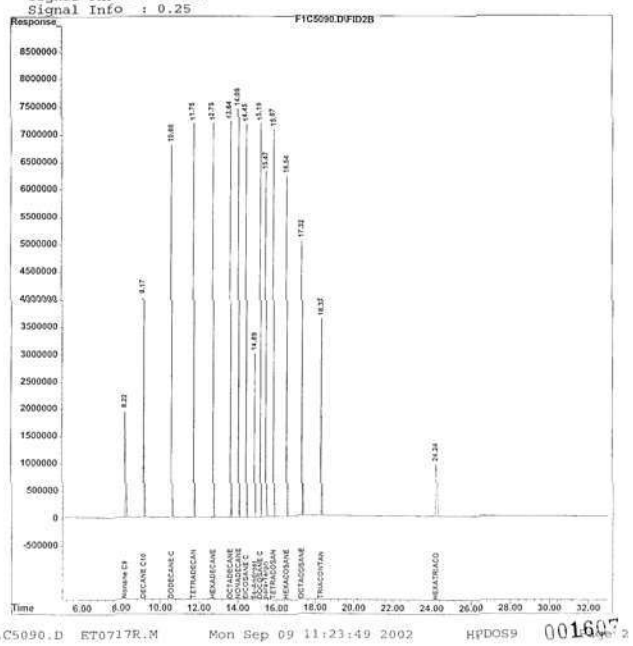
1606

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5090.D Vial: 4
Acq On : 9-6-02 20:29:07 PM Operator:
Sample : ETPH L3 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:23 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5090.D ET0717R.M Mon Sep 09 11:23:49 2002 HPDOS9 Page 2

001607

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5092.D Vial: 5
Acq On : 9-6-02 21:11:13 PM Operator:
Sample : ETPH L4 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:24 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.88	29719908	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.47	134940592	185.325 ng
Spiked Amount	50.000	Recovery	=	370.65%
	Target Compounds			
3)	Nonane C9	8.22	133727960	218.535 ng
4)	DECANE C10	9.18	134920120	214.922 ng
5)	DODECANE C12	10.61	136373059	208.253 ng
6)	TETRADECANE C14	11.75	138629830	206.589 ng
7)	HEXADECANE C 16	12.75	137384976	197.927 ng
8)	OCTADECANE C18	13.64	137654322	193.151 ng
9)	NONADECANE C19	14.06	138843382	194.447 ng
10)	EICOSANE C20	14.45	137907858	192.089 ng
11)	DOCOSANE C22	15.19	140322935	191.257 ng
12)	TETRACOSANE C24	15.87	139127565	190.913 ng
13)	HEXACOSANE C26	16.55	142012987	191.022 ng
14)	OCTACOSANE C28	17.33	141384019	189.895 ng
15)	TRIACONTANE C30	18.34	139472302	187.024 ng
16)	HEXATRIACONTANE C36	24.28	107700040	150.364 ng

BMF 9/9/02

(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5092.D ET0717R.M Mon Sep 09 11:24:50 2002 HPDOS9 Page 1

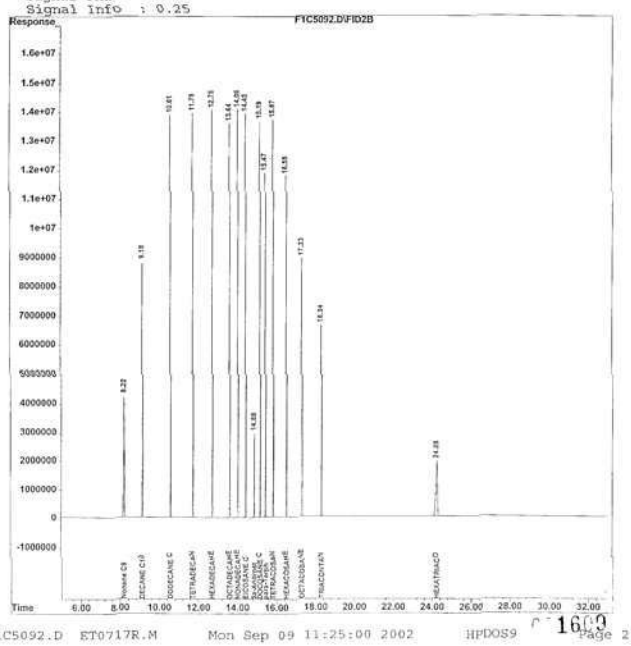
1608

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5092.D Vial: 5
Acq On : 9-6-02 21:11:13 PM Operator:
Sample : ETPH L4 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:24 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5092.D ET0717R.M Mon Sep 09 11:25:00 2002 HPDOS9 Page 2

1609

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5094.D Vial: 6
Acq On : 9-6-02 21:53:09 PM Operator:
Sample : ETPH L5 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:25 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.89	312903886	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.48	277787178	362.360 ng
Spiked Amount	50.000	Recovery	=	724.72%
	Target Compounds			
3)	Nonane C9	8.22	271580803	421.535 ng
4)	DECANE C10	9.18	273956929	414.498 ng
5)	DODECANE C12	10.61	276821953	401.514 ng
6)	TETRADECANE C14	11.76	281068448	397.832 ng
7)	HEXADECANE C 16	12.76	278822574	381.531 ng
8)	OCTADECANE C18	13.65	280210868	373.446 ng
9)	NONADECANE C19	14.07	282127227	376.638 ng
10)	EICOSANE C20	14.46	281529249	372.588 ng
11)	DOCOSANE C22	15.20	286851532	371.349 ng
12)	TETRACOSANE C24	15.88	285490399	372.092 ng
13)	HEXACOSANE C26	16.56	291759164	372.749 ng
14)	OCTACOSANE C28	17.35	291205463	371.497 ng
15)	TRIACONTANE C30	18.36	288753426	367.767 ng
16)	HEXATRIACONTANE C36	24.34	233984579	310.279 ng

BMF 9/9/02

001610

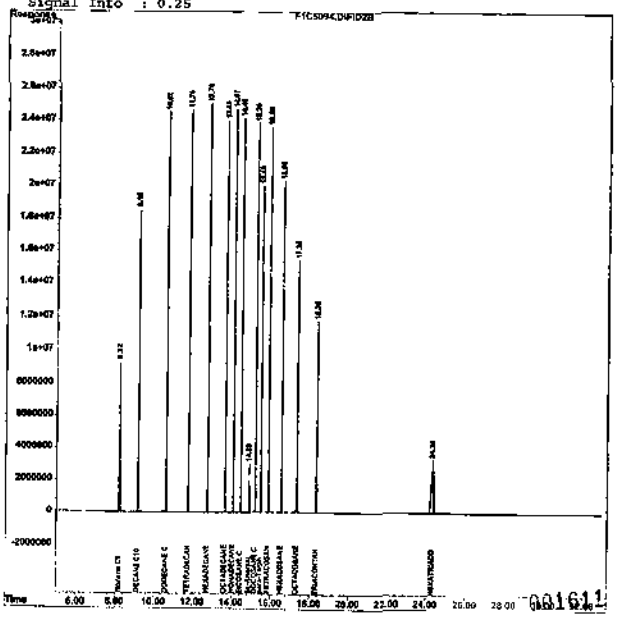
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5094.D ET0717R.M Mon Sep 09 11:26:06 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5094.D Vial: 6
Acq On : 9-6-02 21:53:09 PM Operator:
Sample : ETPH L5 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:25 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001611

F1C5094.D ET0717R.M Mon Sep 09 11:26:16 2002 HPDOS9 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6430.D Vial: 97
Acq On : 11-21-02 9:56:18 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 2 13:53 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.64	39798284	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.23	44154209	50.864 ng
Spiked Amount	50.000	Recovery	=	101.73%
	Target Compounds			
3)	Nonane C9	7.95	42385261	50.637 ng
4)	DECANE C10	8.93	42041891	49.883 ng
5)	DODECANE C12	10.38	44131828	50.510 ng
6)	TETRADECANE C14	11.53	45402146	50.085 ng
7)	HEXADECANE C 16	12.52	45697200	50.047 ng
8)	OCTADECANE C18	13.42	46494037	50.492 ng
9)	NONADECANE C19	13.83	47122856	50.654 ng
10)	EICOSANE C20	14.23	47173434	50.771 ng
11)	DOCOSANE C22	14.97	48461043	50.802 ng
12)	TETRACOSANE C24	15.65	47898068	50.906 ng
13)	HEXACOSANE C26	16.30	48812196	50.759 ng
14)	OCTACOSANE C28	17.02	48343818	50.625 ng
15)	TRIACONTANE C30	17.93	47446090	50.698 ng
16)	HEXATRIACONTANE C36	23.21	36549213	52.112 ng

CCV=101%
BMF 12/2/02

001612

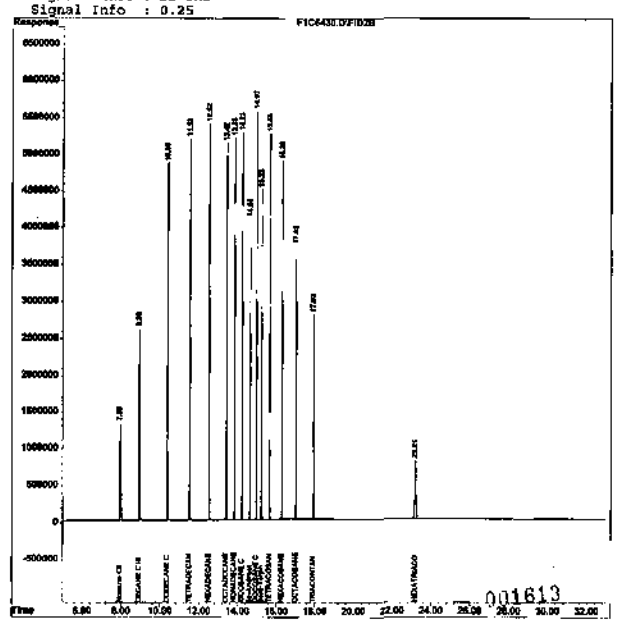
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6430.D ET0909R.M Mon Dec 02 13:53:44 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6430.D Vial: 97
Acq On : 11-21-02 9:56:18 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 2 13:53 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001613

F1C6430.D ET0909R.M Mon Dec 02 13:53:53 2002 HPDOS9 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6456.D Vial: 97
Acq On : 11-21-02 19:06:34 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 2 13:54 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.65	41863127	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.23	48893365	53.545 ng
Spiked Amount	50.000	Recovery	=	107.09%
	Target Compounds			
3)	Nonane C9	7.95	44960881	51.065 ng
4)	DECANE C10	8.94	45982723	50.662 ng
5)	DODECANE C12	10.38	47276718	51.441 ng
6)	TETRADECANE C14	11.53	48807001	51.185 ng
7)	HEXADECANE C 16	12.53	49122088	51.145 ng
8)	OCTADECANE C18	13.42	49835373	51.451 ng
9)	NONADECANE C19	13.83	50437394	51.543 ng
10)	EICOSANE C20	14.23	50591989	51.765 ng
11)	DOCOSANE C22	14.97	51641302	51.466 ng
12)	TETRACOSANE C24	15.65	51451518	51.985 ng
13)	HEXACOSANE C26	16.30	52687827	52.087 ng
14)	OCTACOSANE C28	17.02	52940156	52.704 ng
15)	TRIACONTANE C30	17.93	52631057	53.465 ng
16)	HEXATRIACONTANE C36	23.23	49613087	67.250 ng

CCV = 106%
BMF
12/2/02

001614

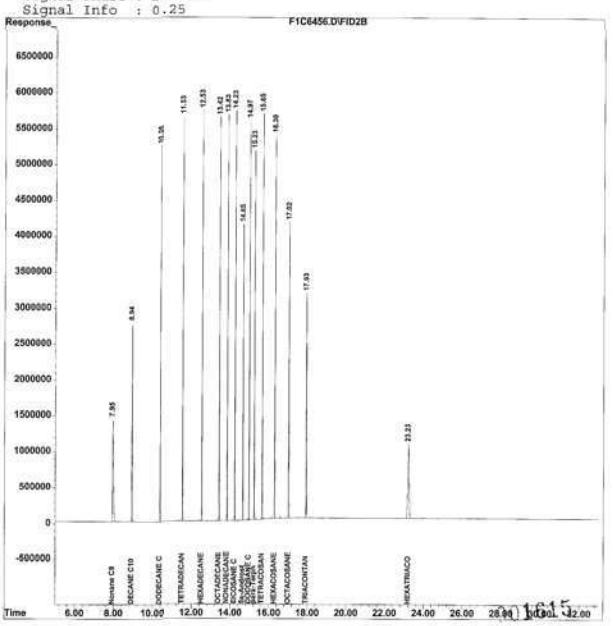
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6456.D ET0909R.M Mon Dec 02 13:54:51 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6456.D Vial: 97
Acq On : 11-21-02 19:06:34 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 2 13:54 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001615

F1C6456.D ET0909R.M Mon Dec 02 13:54:59 2002 HPDOS9 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6482.D Vial: 97
Acq On : 11-22-02 4:19:27 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 2 13:55 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.65	42440138	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.23	48953717	52.883 ng
Spiked Amount	50.000	Recovery	=	105.77%
	Target Compounds			
3)	Nonane C9	7.95	45485014	50.958 ng
4)	DECANE C10	8.93	46489815	50.525 ng
5)	DODECANE C12	10.38	47752561	51.252 ng
6)	TETRADECANE C14	11.53	49439218	51.143 ng
7)	HEXADECANE C 16	12.53	49805338	51.151 ng
8)	OCTADECANE C18	13.42	50557501	51.487 ng
9)	NONADECANE C19	13.83	51229569	51.640 ng
10)	EICOSANE C20	14.23	51256899	51.732 ng
11)	DOCOSANE C22	14.97	52399792	51.512 ng
12)	TETRACOSANE C24	15.65	52184599	52.009 ng
13)	HEXACOSANE C26	16.30	53354825	52.029 ng
14)	OCTACOSANE C28	17.03	53682877	52.717 ng
15)	TRIACONTANE C30	17.94	53216970	53.325 ng
16)	HEXATRIACONTANE C36	23.22	49408252	66.061 ng

CCV = 105%
BMF
12/2/02

001616

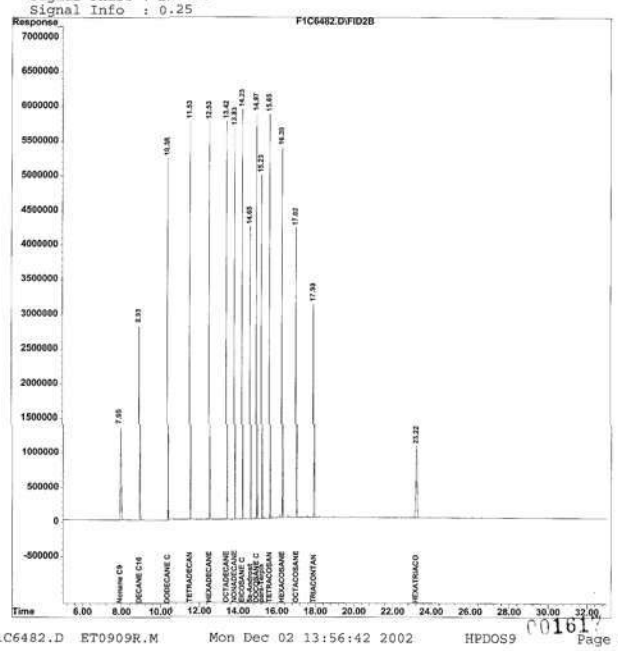
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6482.D Vial: 97
Acq On : 11-22-02 4:19:27 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 2 13:55 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001617

F1C6482.D ET0909R.M Mon Dec 02 13:56:42 2002 HPDOS9 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6506.D Vial: 97
Acq On : 11-22-02 12:49:56 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 2 13:57 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.65	43566542	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.23	50919240	53.584 ng
Spiked Amount	50.000	Recovery	=	107.17%
	Target Compounds			
3)	Nonane C9	7.95	46862074	51.143 ng
4)	DECANE C10	8.93	47896299	50.707 ng
5)	DODECANE C12	10.38	49011034	51.243 ng
6)	TETRADECANE C14	11.53	50837606	51.230 ng
7)	HEXADECANE C 16	12.53	51254077	51.278 ng
8)	OCTADECANE C18	13.42	52151024	51.736 ng
9)	NONADECANE C19	13.84	52755607	51.804 ng
10)	EICOSANE C20	14.23	52842212	51.953 ng
11)	DOCOSANE C22	14.97	54113570	51.821 ng
12)	TETRACOSANE C24	15.65	53667032	52.104 ng
13)	HEXACOSANE C26	16.30	54882562	52.136 ng
14)	OCTACOSANE C28	17.03	54699822	52.327 ng
15)	TRIACONTANE C30	17.94	54266377	52.971 ng
16)	HEXATRIACONTANE C36	23.23	44479632	57.934 ng

CCV=104%
BMF
12/2/02

001618

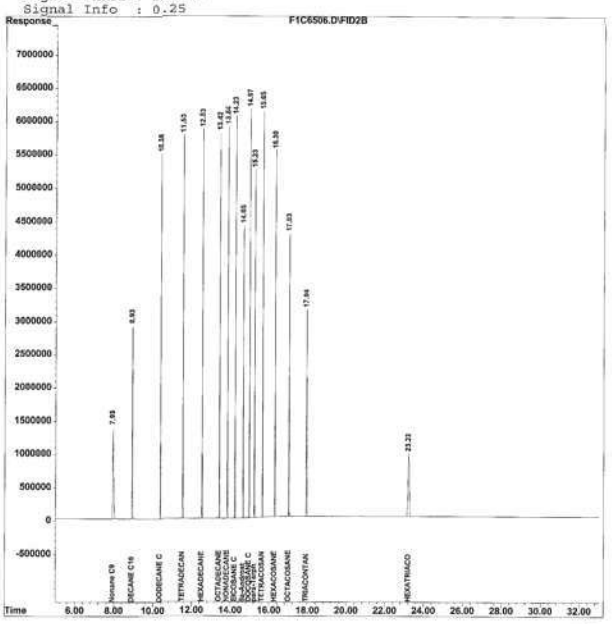
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6506.D ET0909R.M Mon Dec 02 13:57:39 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6506.D Vial: 97
Acq On : 11-22-02 12:49:56 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 2 13:57 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6506.D ET0909R.M Mon Dec 02 13:57:48 2002 HPDOS9 001619 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6510.D Vial: 97
Acq On : 11-26-02 12:08:51 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 26 13:30 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.62	46450955	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.21	50424971	49.769 ng
Spiked Amount	50.000	Recovery	=	99.54%
	Target Compounds			
3)	Nonane C9	7.94	49923187	51.101 ng
4)	DECANE C10	8.92	51555178	51.192 ng
5)	DODECANE C12	10.36	52878129	51.853 ng
6)	TETRADECANE C14	11.51	54483385	51.495 ng
7)	HEXADECANE C 16	12.50	54578827	51.213 ng
8)	OCTADECANE C18	13.40	55082746	51.252 ng
9)	NONADECANE C19	13.81	55507316	51.121 ng
10)	EICOSANE C20	14.21	55375172	51.063 ng
11)	DOCOSANE C22	14.95	56269007	50.539 ng
12)	TETRACOSANE C24	15.63	55546589	50.580 ng
13)	HEXACOSANE C26	16.27	56203551	50.075 ng
14)	OCTACOSANE C28	17.00	55700044	49.975 ng
15)	TRIACONTANE C30	17.90	55258699	50.590 ng
16)	HEXATRIACONTANE C36	23.13	51498978	62.911 ng

CCV=104%
BMF
12/2/02

001620

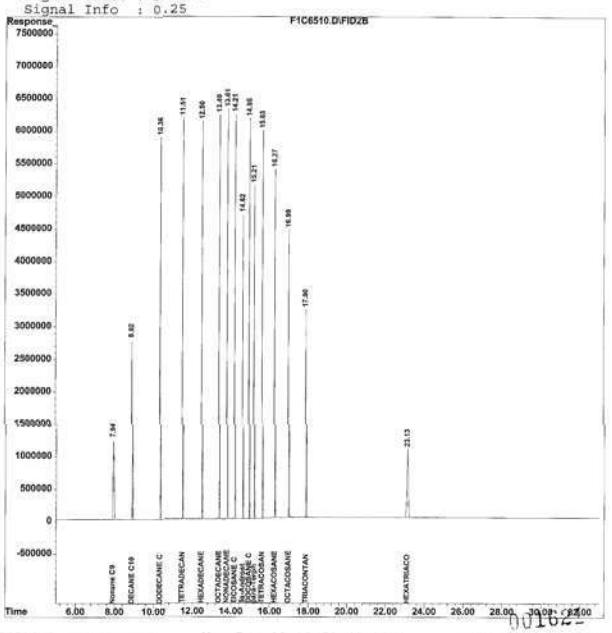
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6510.D ET0909R.M Mon Dec 02 13:58:34 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6510.D Vial: 97
Acq On : 11-26-02 12:08:51 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 26 13:30 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6510.D ET0909R.M Mon Dec 02 13:58:43 2002 HPDOS9 001622 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6534.D Vial: 97
Acq On : 11-26-02 21:25:56 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 29 10:23 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.62	52106148	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.21	60106171	52.885 ng
Spiked Amount	50.000	Recovery	=	105.77%
	Target Compounds			
3)	Nonane C9	7.94	52752094	48.136 ng
4)	DECANE C10	8.92	54862069	48.563 ng
5)	DODECANE C12	10.36	57215643	50.017 ng
6)	TETRADECANE C14	11.50	59492511	50.127 ng
7)	HEXADECANE C 16	12.50	60233939	50.386 ng
8)	OCTADECANE C18	13.40	61443890	50.965 ng
9)	NONADECANE C19	13.81	62243190	51.103 ng
10)	EICOSANE C20	14.21	62390548	51.288 ng
11)	DOCOSANE C22	14.95	63793962	51.079 ng
12)	TETRACOSANE C24	15.63	63542235	51.581 ng
13)	HEXACOSANE C26	16.27	64675284	51.369 ng
14)	OCTACOSANE C28	17.00	64001334	51.191 ng
15)	TRIACONTANE C30	17.90	62343596	50.881 ng
16)	HEXATRIACONTANE C36	23.12	41885728	45.614 ng

CCV=93%
BMF 12/2/02

(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6534.D ET0909R.M Mon Dec 02 13:59:03 2002 HPDOS9 Page 1

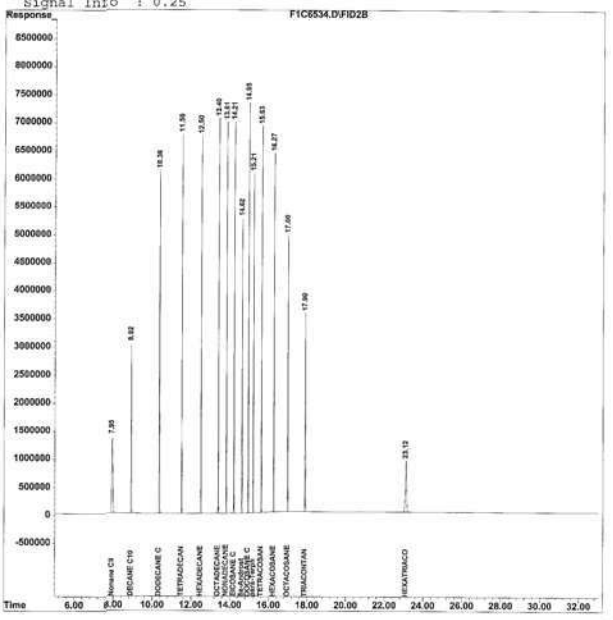
001622

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6534.D Vial: 97
Acq On : 11-26-02 21:25:56 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 29 10:23 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6534.D ET0909R.M Mon Dec 02 13:59:12 2002 HPDOS9

001623

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6431.D Vial: 98
Acq On : 11-21-02 9:56:18 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 2 13:59 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Nov 29 10:21:02 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.18	17418909	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.74	20381979	53.658 ng
Spiked Amount	50.000	Recovery	=	107.32%
	Target Compounds			
3)	Nonane C9	8.51	21365050	53.178 ng
4)	DECANE C10	9.46	21337873	52.837 ng
5)	DODECANE C12	10.87	21012933	51.591 ng
6)	TETRADECANE C14	12.02	20849888	50.306 ng
7)	HEXADECANE C 16	13.03	20267860	49.418 ng
8)	OCTADECANE C18	13.93	19970944	49.047 ng
9)	NONADECANE C19	14.34	19939429	49.015 ng
10)	EICOSANE C20	14.74	19677424	48.862 ng
11)	DOCOSANE C22	15.49	19646868	48.737 ng
12)	TETRACOSANE C24	16.18	19135369	48.349 ng
13)	HEXACOSANE C26	16.92	19201866	48.188 ng
14)	OCTACOSANE C28	17.82	18885262	48.265 ng
15)	TRIACONTANE C30	18.99	18550108	48.138 ng
16)	HEXATRIACONTANE C36	26.14	16980673	47.655 ng

CCV=99%
BMF 12/2/02

(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6431.D ET0909F.M Mon Dec 02 14:00:38 2002 HPDOS9 Page 1

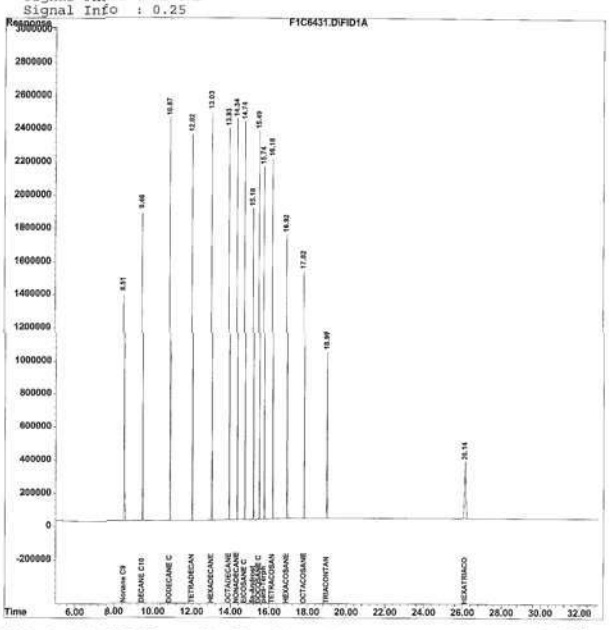
001624

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6431.D Vial: 98
Acq On : 11-21-02 9:56:18 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 2 13:59 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Nov 29 10:21:02 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6431.D ET0909F.M Mon Dec 02 14:00:42 2002 HPDOS9

001625 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6457.D Vial: 98
Acq On : 11-21-02 19:06:34 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 2 14:01 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Nov 29 10:21:02 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.19	20112661	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.74	23337896	53.211 ng
Spiked Amount	50.000	Recovery	=	106.42%
	Target Compounds			
3)	Nonane C9	8.52	23386011	50.413 ng
4)	DECANE C10	9.46	23550170	50.505 ng
5)	DODECANE C12	10.88	23462506	49.890 ng
6)	TETRADECANE C14	12.03	23707833	49.540 ng
7)	HEXADECANE C 16	13.03	23345144	49.298 ng
8)	OCTADECANE C18	13.93	23261569	49.477 ng
9)	NONADECANE C19	14.35	23363191	49.697 ng
10)	EICOSANE C20	14.75	23180540	49.852 ng
11)	DOCOSANE C22	15.49	23350252	50.166 ng
12)	TETRACOSANE C24	16.18	22910775	50.135 ng
13)	HEXACOSANE C26	16.92	23102335	50.211 ng
14)	OCTACOSANE C28	17.82	22888630	50.662 ng
15)	TRIACONTANE C30	19.00	22510057	50.590 ng
16)	HEXATRIACONTANE C36	26.15	20730352	50.386 ng

CCV=100%
emf
12/2/02

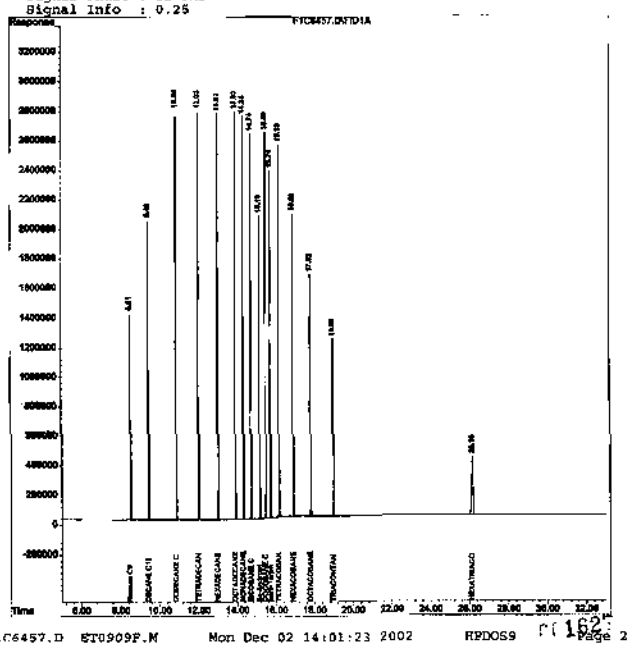
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6457.D ET0909F.M Mon Dec 02 14:01:19 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6457.D Vial: 98
Acq On : 11-21-02 19:06:34 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 2 14:01 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Nov 29 10:21:02 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6457.D ET0909F.M Mon Dec 02 14:01:23 2002 HPDOS9 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6483.D Vial: 98
Acq On : 11-22-02 4:19:27 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 2 14:01 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Nov 29 10:21:02 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.19	19335782	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.75	22254763	52.781 ng
Spiked Amount	50.000	Recovery	=	105.56%
	Target Compounds			
3)	Nonane C9	8.52	23073159	51.737 ng
4)	DECANE C10	9.46	22968951	51.238 ng
5)	DODECANE C12	10.88	22222957	49.152 ng
6)	TETRADECANE C14	12.03	22930697	49.842 ng
7)	HEXADECANE C 16	13.03	22595935	49.633 ng
8)	OCTADECANE C18	13.93	22544730	49.879 ng
9)	NONADECANE C19	14.35	22621248	50.095 ng
10)	EICOSANE C20	14.75	22491497	50.313 ng
11)	DOCOSANE C22	15.49	22613902	50.536 ng
12)	TETRACOSANE C24	16.18	22120890	50.351 ng
13)	HEXACOSANE C26	16.93	22233184	50.263 ng
14)	OCTACOSANE C28	17.83	21812891	50.221 ng
15)	TRIACONTANE C30	19.00	21305320	49.807 ng
16)	HEXATRIACONTANE C36	26.17	17036607	43.072 ng

CCV=99%
emf
12/2/02

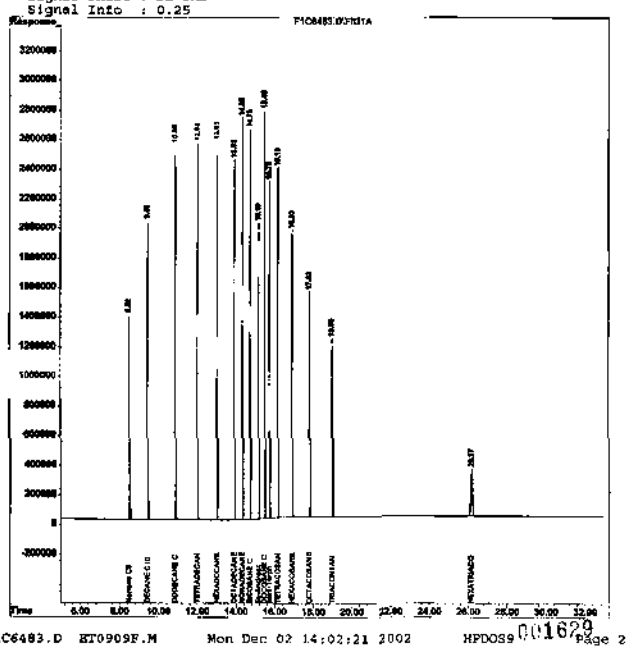
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6483.D ET0909F.M Mon Dec 02 14:02:17 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6483.D Vial: 98
Acq On : 11-22-02 4:19:27 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 2 14:01 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Nov 29 10:21:02 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6483.D ET0909F.M Mon Dec 02 14:02:21 2002 HPDOS9 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6507.D Vial: 98
Acq On : 11-22-02 12:49:56 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 2 14:02 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Nov 29 10:21:02 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.19	19566710	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.75	22571396	52.900 ng
Spiked Amount	50.000	Recovery	=	105.80%
	Target Compounds			
3)	Nonane C9	8.52	22949582	50.852 ng
4)	DECANE C10	9.46	22607197	49.836 ng
5)	DODECANE C12	10.88	22143956	48.400 ng
6)	TETRADECANE C14	12.03	23171017	49.770 ng
7)	HEXADECANE C 16	13.03	23110900	50.165 ng
8)	OCTADECANE C18	13.93	23228556	50.785 ng
9)	NONADECANE C19	14.35	23293429	50.975 ng
10)	EICOSANE C20	14.75	23058720	50.973 ng
11)	DOCOSANE C22	15.50	23104521	51.023 ng
12)	TETRACOSANE C24	16.19	22553661	50.730 ng
13)	HEXACOSANE C26	16.93	22084485	49.338 ng
14)	OCTACOSANE C28	17.83	21273844	48.401 ng
15)	TRIACONTANE C30	19.01	19117629	44.165 ng
16)	HEXATRIACONTANE C36	26.18	11766015	29.396 ng

CCV= 96%
BMF
12/2/02

1630

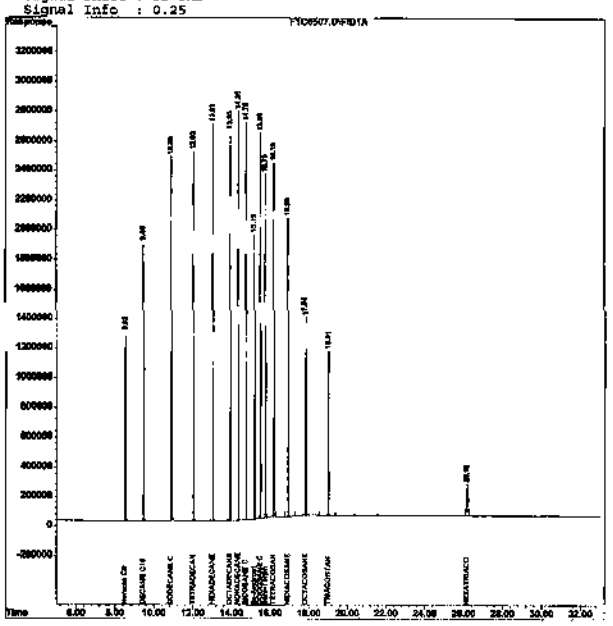
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6507.D ET0909F.M Mon Dec 02 14:03:04 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6507.D Vial: 98
Acq On : 11-22-02 12:49:56 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 2 14:02 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Nov 29 10:21:02 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6507.D ET0909F.M Mon Dec 02 14:03:08 2002 HPDOS9 1631 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6511.D Vial: 98
Acq On : 11-26-02 12:08:51 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 26 13:29 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.14	26614983	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.70	33608666	57.908 ng
Spiked Amount	50.000	Recovery	=	115.82%
	Target Compounds			
3)	Nonane C9	8.47	28686036	46.730 ng
4)	DECANE C10	9.41	29459864	47.744 ng
5)	DODECANE C12	10.83	30084148	48.341 ng
6)	TETRADECANE C14	11.98	30820370	48.659 ng
7)	HEXADECANE C 16	12.98	30736475	49.049 ng
8)	OCTADECANE C18	13.89	30939868	49.731 ng
9)	NONADECANE C19	14.30	31132895	50.088 ng
10)	EICOSANE C20	14.70	31051586	50.464 ng
11)	DOCOSANE C22	15.45	31465030	51.085 ng
12)	TETRACOSANE C24	16.14	31149906	51.511 ng
13)	HEXACOSANE C26	16.87	31756581	52.158 ng
14)	OCTACOSANE C28	17.76	31712551	53.044 ng
15)	TRIACONTANE C30	18.92f	31706376	53.849 ng
16)	HEXATRIACONTANE C36	25.95	30351279	56.747 ng

CCV=
101%
BMF
12/2/02

1632

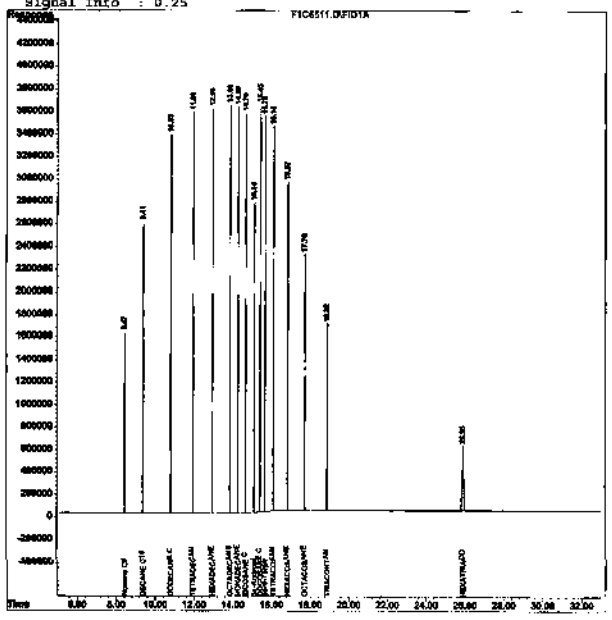
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6511.D ET0909F.M Mon Dec 02 14:03:29 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6511.D Vial: 98
Acq On : 11-26-02 12:08:51 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 26 13:29 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6511.D ET0909F.M Mon Dec 02 14:03:34 2002 HPDOS9 1633 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6535.D Vial: 98
Acq On : 11-26-02 21:25:57 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 29 10:21 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Nov 29 10:21:02 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.14	20496143	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.70	35939544	57.836 ng
Spiked Amount	50.000	Recovery	=	115.67%
	Target Compounds			
3)	Nonane C9	8.47	30446374	46.323 ng
4)	DECANE C10	9.41	31334486	47.429 ng
5)	DODECANE C12	10.83	31935568	47.928 ng
6)	TETRADECANE C14	11.98	32803693	48.381 ng
7)	HEXADECANE C 16	12.98	32724113	48.773 ng
8)	OCTADECANE C18	13.88	32952015	49.469 ng
9)	NONADECANE C19	14.30	33187946	49.869 ng
10)	EICOSANE C20	14.70	33092290	50.230 ng
11)	DOCOSANE C22	15.45	33555723	50.883 ng
12)	TETRACOSANE C24	16.14	33237416	51.335 ng
13)	HEXACOSANE C26	16.87	33792169	51.837 ng
14)	OCTACOSANE C28	17.76	33587195	52.471 ng
15)	TRIACONTANE C30	18.92	32949141	52.266 ng
16)	HEXATRIACONTANE C36	25.94	23011273	39.475 ng

CCV = 98%
BMF
12/2/02

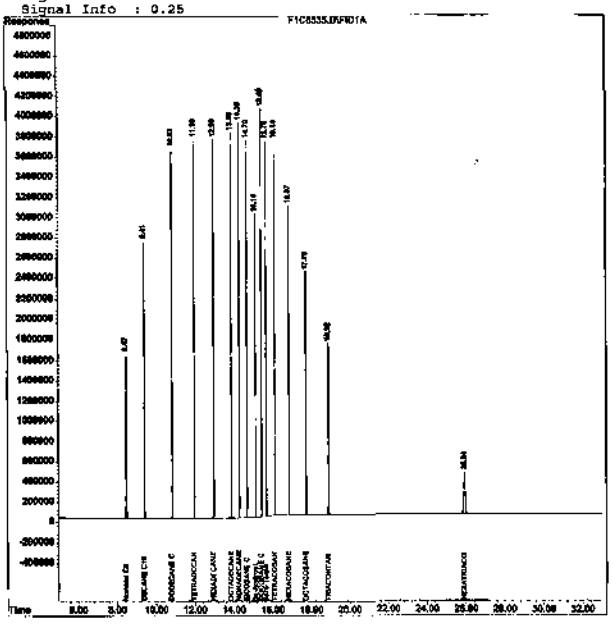
(f)=RT Delta > 1/2 Window (m)=manual int
F1C6535.D ET0909F.M Mon Dec 02 14:03:48 2002 HPDOS9 1634 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6535.D Vial: 98
Acq On : 11-26-02 21:25:57 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 29 10:21 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Nov 29 10:21:02 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6535.D ET0909F.M Mon Dec 02 14:03:52 2002 HPDOS9 1635 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6434.D Vial: 1
Acq On : 11-21-02 11:19:29 PM Operator:
Sample : MB-4358 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 10:53 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units	
	Internal Standards				
1) I	5a-Androstane	14.64	40718993	40.000 ng	
	System Monitoring Compounds				
2) S	para-Terphenyl	15.23	41038370	46.206 ng	
Spiked Amount	50.000	Recovery	=	92.41%	
	Target Compounds				
3)	Nonane C9	0.00	0	N.D. ng	
4)	DECANE C10	0.00	0	N.D. ng	
5)	DODECANE C12	0.00	0	N.D. ng	
6)	TETRADECANE C14	0.00	0	N.D. ng	
7)	HEXADECANE C 16	0.00	0	N.D. ng	
8)	OCTADECANE C18	0.00	0	N.D. ng	
9)	NONADECANE C19	0.00	0	N.D. ng	
10)	EICOSANE C20	0.00	0	N.D. ng	d
11)	DOCOSANE C22	0.00	0	N.D. ng	d
12)	TETRACOSANE C24	0.00	0	N.D. ng	d
13)	HEXACOSANE C26	0.00	0	N.D. ng	
14)	OCTACOSANE C28	0.00	0	N.D. ng	
15)	TRIACONTANE C30	0.00	0	N.D. ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D. ng	

BMF
11/26/02

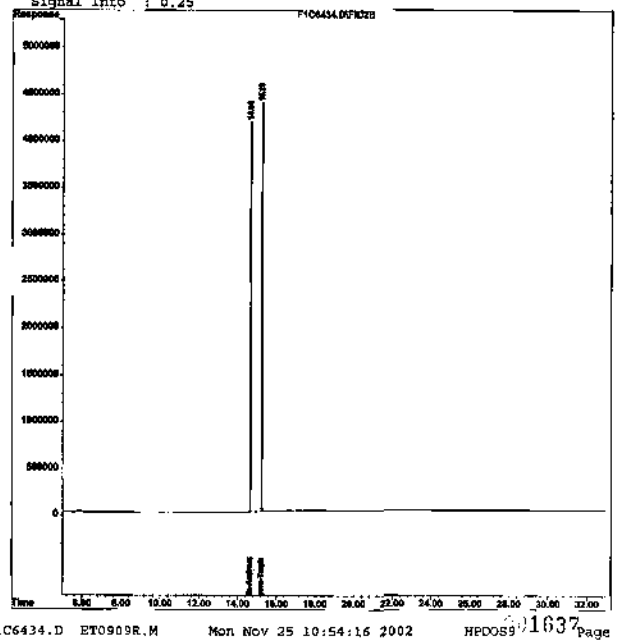
(f)=RT Delta > 1/2 Window (m)=manual int
F1C6434.D ET0909R.M Mon Nov 25 10:54:08 2002 HPDOS9 1636 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6434.D Vial: 1
Acq On : 11-21-02 11:19:29 PM Operator:
Sample : MB-4358 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 10:53 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6434.D ET0909R.M Mon Nov 25 10:54:16 2002 HPDOS9 1637 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6434.D Vial: 1
Acq On : 11-21-02 11:19:29 PM Operator:
Sample : MB-4358 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6434.D\FID2B

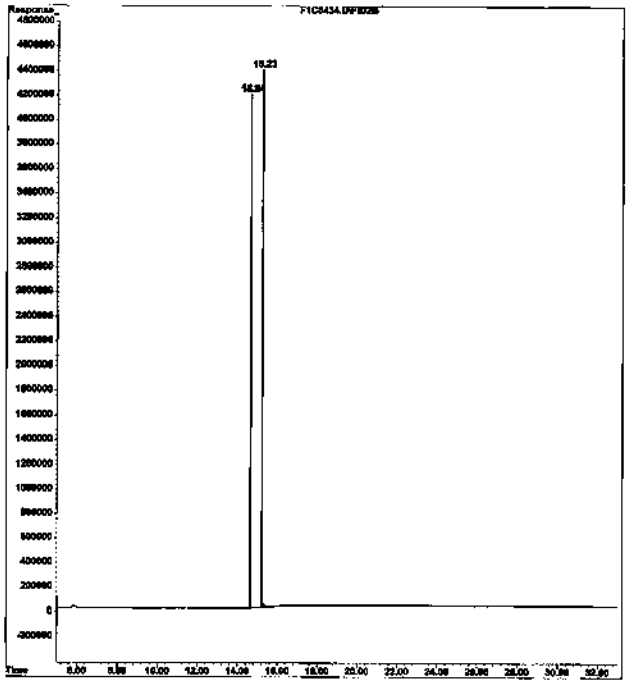
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.641	14.431	15.023		M4178084	41165721	97.30%	49.315%
2	15.227	15.176	15.850		M4372868	42309321	100.00%	50.685%

Sum of corrected areas: 83475042

F1C6434.D ET0909R.M Mon Nov 25 10:54:50 2002 HPDOS9

001638

File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6434.D
Operator :
Acquired : 11-21-02 11:19:29 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: MB-4358
Misc Info :
Vial Number: 1



001639

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6435.D Vial: 2
Acq On : 11-21-02 11:19:29 PM Operator:
Sample : MB-4359 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 13:39 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	15.18	19445486	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.74	18379983	43.345	ng	
Spiked Amount	50.000		Recovery =	86.69%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF
11/25/02

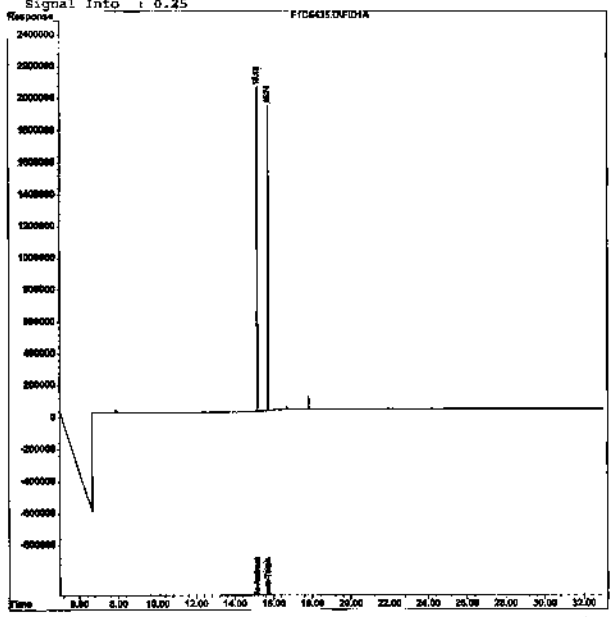
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6435.D ET0909F.M Mon Nov 25 13:39:58 2002 HPDOS9 001640 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6435.D Vial: 2
Acq On : 11-21-02 11:19:29 PM Operator:
Sample : MB-4359 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 13:39 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6435.D ET0909F.M Mon Nov 25 13:40:02 2002 HPDOS9 001641 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6435.D Vial: 2
Acq On : 11-21-02 11:19:29 PM Operator:
Sample : MB-4359 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6435.D\FID1A

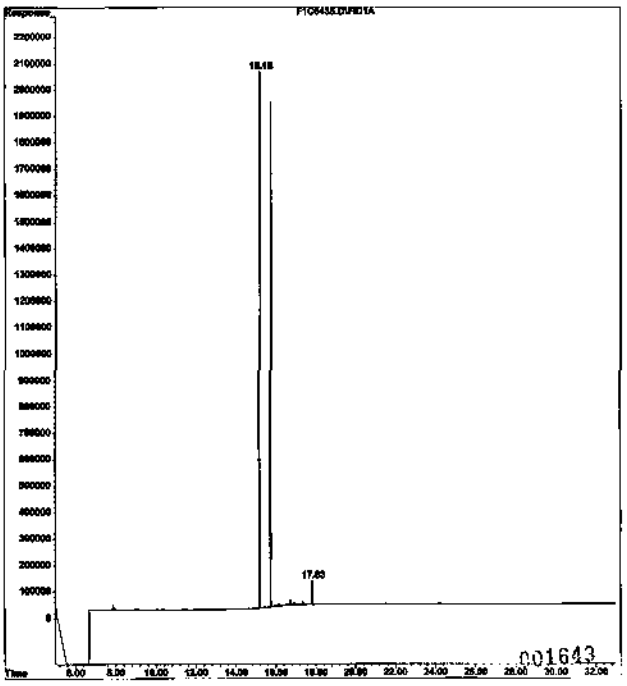
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.179	15.043	16.450	M	2034251	39474755	100.00%	90.936%
2	17.831	16.460	18.050	M	89667	3934793	9.97%	9.064%

Sum of corrected areas: 43409548

F1C6435.D ET0909F.M Mon Nov 25 13:40:24 2002 HPDOS9

001642

File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6435.D
Operator :
Acquired : 11-21-02 11:19:29 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: MB-4359
Misc Info :
Vial Number: 2



001643

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6436.D Vial: 3
Acq On : 11-21-02 12:01:18 PM Operator:
Sample : MB-4369 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 10:55 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.66	40759129	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.23	35453090	39.882	ng	
Spiked Amount	50.000	Recovery	=	79.76%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

BMF 11/25/02

001644

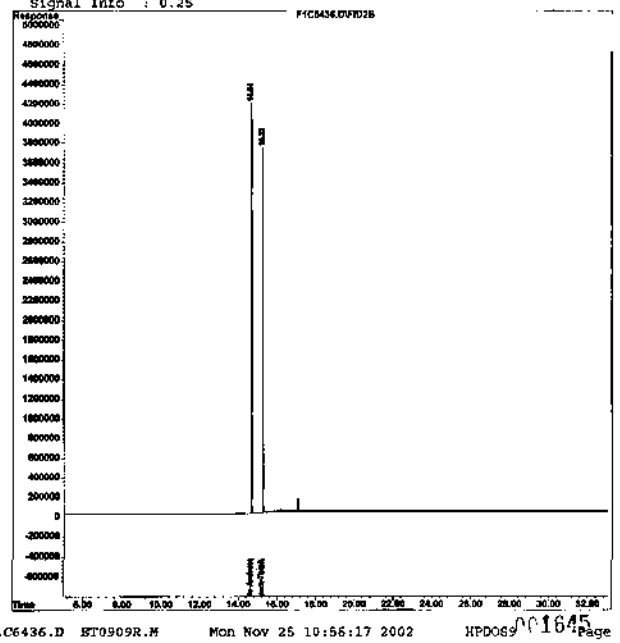
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6436.D ET0909R.M Mon Nov 25 10:56:10 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6436.D Vial: 3
Acq On : 11-21-02 12:01:18 PM Operator:
Sample : MB-4369 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 10:55 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6436.D ET0909R.M Mon Nov 25 10:56:17 2002 HPDOS9

001645

Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6436.D Vial: 3
Acq On : 11-21-02 12:01:18 PM Operator:
Sample : MB-4369 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6436.D\FID2B

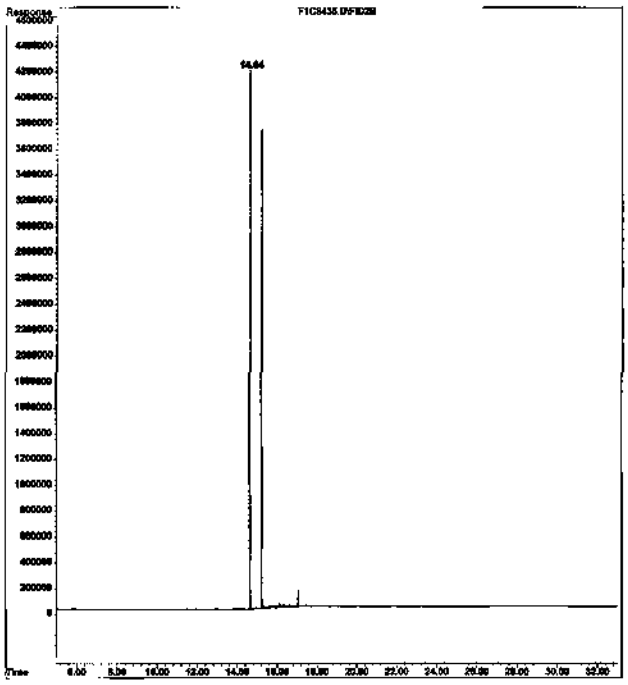
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.642	14.559	17.209	M	4173472	90143204	100.00%	100.000%

Sum of corrected areas: 90143204

F1C6436.D ET0909R.M Mon Nov 25 10:56:58 2002 HPDOS9

001646

File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6436.D
Operator :
Acquired : 11-21-02 12:01:18 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: MB-4369
Misc Info :
Vial Number: 3



001647

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6514.D Vial: 1
Acq On : 11-26-02 14:24:01 PM Operator:
Sample : MB-4249 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 15:20 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

Compound	R.T.	Response	Conc	Units	
Internal Standards					
1) I 5a-Androstane	14.62	36959931	40.000	ng	
System Monitoring Compounds					
2) S para-Terphenyl	15.20	14478912	17.960	ng	
Spiked Amount 50.000		Recovery =	35.92%		
Target Compounds					
3) Nonane C9	0.00	0	N.D.	ng	
4) DECANE C10	0.00	0	N.D.	ng	
5) DODECANE C12	0.00	0	N.D.	ng	
6) TETRADECANE C14	0.00	0	N.D.	ng	
7) HEXADECANE C 16	0.00	0	N.D.	ng	
8) OCTADECANE C18	0.00	0	N.D.	ng	
9) NONADECANE C19	0.00	0	N.D.	ng	d
10) EICOSANE C20	0.00	0	N.D.	ng	d
11) DOCOSANE C22	0.00	0	N.D.	ng	d
12) TETRACOSANE C24	0.00	0	N.D.	ng	d
13) HEXACOSANE C26	0.00	0	N.D.	ng	d
14) OCTACOSANE C28	0.00	0	N.D.	ng	d
15) TRIACONTANE C30	0.00	0	N.D.	ng	d
16) HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF 11/27/02

(f)=RT Delta > 1/2 Window (m)=manual int.

F1C6514.D ET0909R.M Wed Nov 27 15:21:02 2002 HPDOS9 Page 1

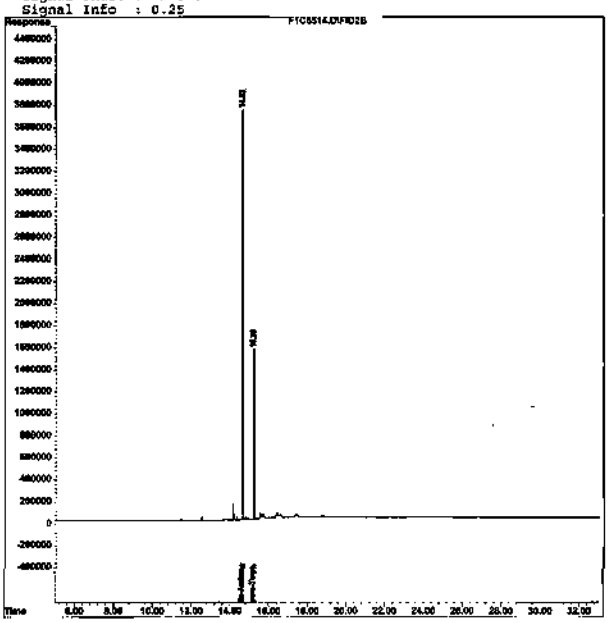
001648

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6514.D Vial: 1
Acq On : 11-26-02 14:24:01 PM Operator:
Sample : MB-4249 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 15:20 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6514.D ET0909R.M Wed Nov 27 15:21:10 2002 HPDOS9 Page 2

001649

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6514.D Vial: 1
Acq On : 11-26-02 14:24:01 PM Operator:
Sample : MB-4249 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6514.D\FID2B

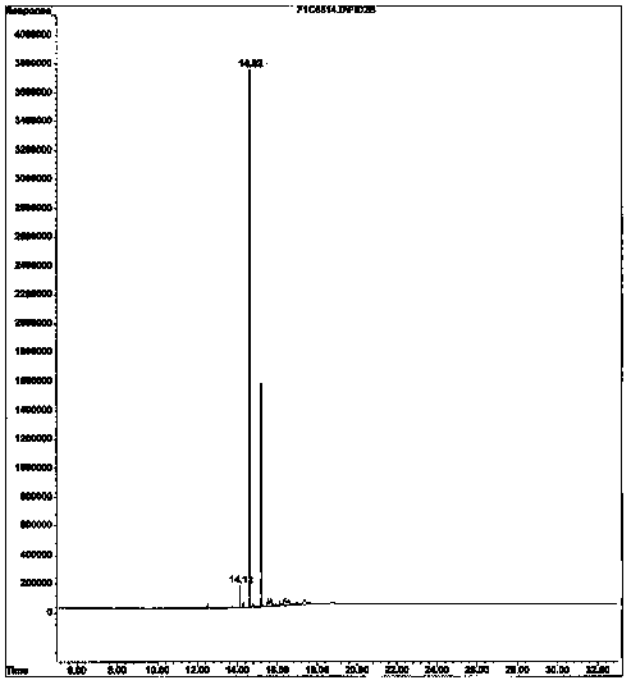
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.124	14.079	14.382	M	149308	1794997	2.39%	2.330%
2	14.618	14.452	17.768	M3722011		75232770	100.00%	97.670%

Sum of corrected areas: 77027767

F1C6514.D ET0909R.M Wed Nov 27 15:22:28 2002 HPDOS9

001650

File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6514.D
Operator :
Acquired : 11-26-02 14:24:01 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: MB-4249
Misc Info :
Vial Number: 1



001651

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6521.D Vial: 8
Acq On : 11-26-02 16:31:14 PM Operator:
Sample : MB-4124 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 16:14 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	15.13	17718244	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.69	17703772	45.820	ng	
Spiked Amount	50.000	Recovery	=	91.64%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	
14)	OCTACOSANE C28	0.00	0	N.D.	ng	
15)	TRIACONTANE C30	0.00	0	N.D.	ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

11/27/02

001652

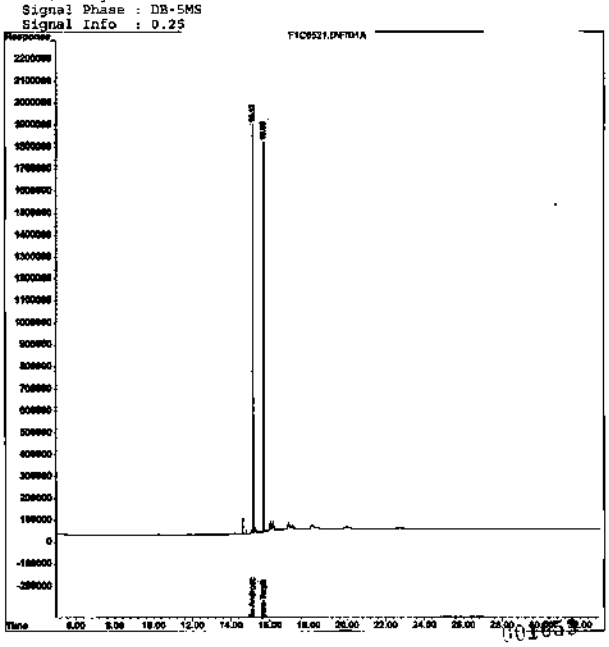
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6521.D ET0909F.M Wed Nov 27 16:14:39 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6521.D Vial: 8
Acq On : 11-26-02 16:31:14 PM Operator:
Sample : MB-4124 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 16:14 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6521.D ET0909F.M Wed Nov 27 16:14:43 2002 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6521.D Vial: 8
Acq On : 11-26-02 16:31:14 PM Operator:
Sample : MB-4124 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6521.D\FID1A

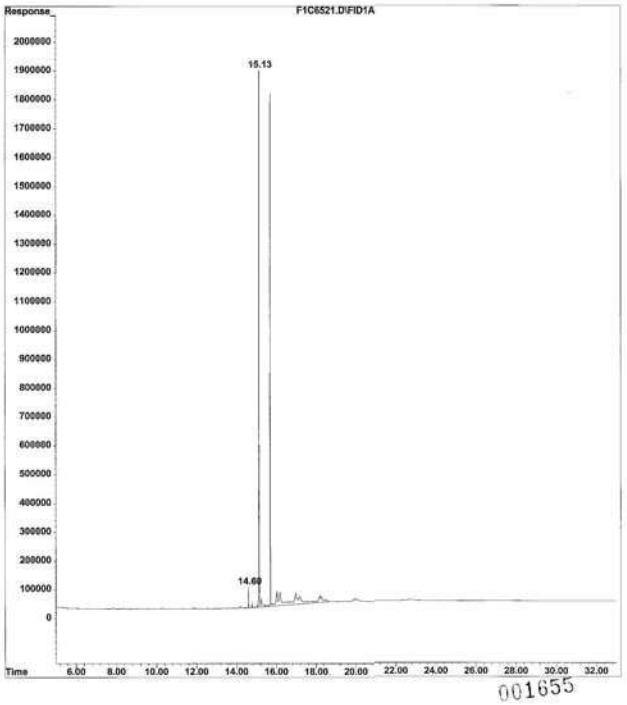
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.598	14.564	14.798	M	71430	813072	1.37%	1.350%
2	15.133	14.861	18.775	M	1865784	59414773	100.00%	98.650%

Sum of corrected areas: 60227845

F1C6521.D ET0909F.M Wed Nov 27 16:15:03 2002 HPDOS9

001654

File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6521.D
Operator :
Acquired : 11-26-02 16:31:14 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: MB-4124
Misc Info :
Vial Number: 8



001655

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6437.D Vial: 4
Acq On : 11-21-02 12:01:18 PM Operator:
Sample : LCS-4358 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 13:40 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.18	18612124	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.74	18620393	45.880 ng
Spiked Amount	50.000	Recovery	=	91.76%
	Target Compounds			
3)	Nonane C9	8.51	13945654	32.486 ng
4)	DECANE C10	9.46	16379880	37.960 ng
5)	DODECANE C12	10.88	17530649	40.282 ng
6)	TETRADECANE C14	12.02	17710975	39.993 ng
7)	HEXADECANE C 16	13.03	17934527	40.926 ng
8)	OCTADECANE C18	13.93	17954393	41.268 ng
9)	NONADECANE C19	14.34	17742861	40.819 ng
10)	EICOSANE C20	14.74	17705296	41.146 ng
11)	DOCOSANE C22	15.49	17725860	41.153 ng
12)	TETRACOSANE C24	16.18	17367039	41.068 ng
13)	HEXACOSANE C26	16.92	17553893	41.228 ng
14)	OCTACOSANE C28	17.82	18234698	43.615 ng
15)	TRIACONTANE C30	18.99	16978467	41.235 ng
16)	HEXATRIACONTANE C36	26.13	14235157	37.389 ng

LCS 80%
EMF
11/27/02

001656

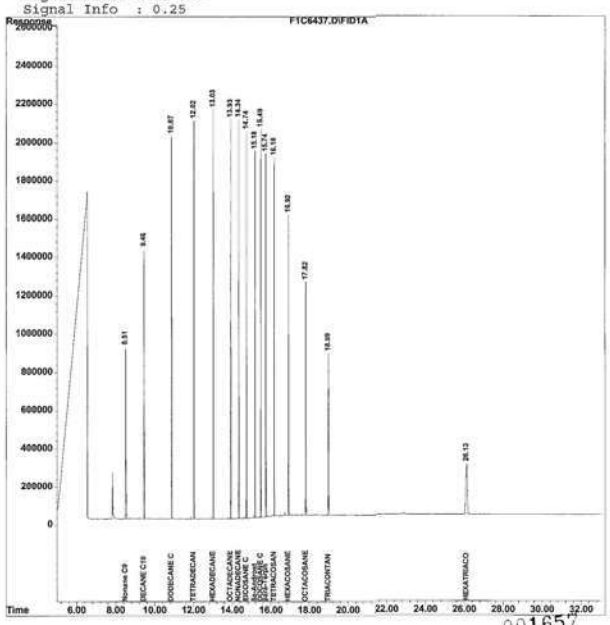
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6437.D ET0909F.M Mon Nov 25 13:41:29 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6437.D Vial: 4
Acq On : 11-21-02 12:01:18 PM Operator:
Sample : LCS-4358 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 13:40 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6437.D ET0909F.M Mon Nov 25 13:41:35 2002 HPDOS9 Page 2

001657

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6438.D Vial: 5
Acq On : 11-21-02 12:44:24 PM Operator:
Sample : LCSD-4358 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 10:57 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.64	37657228	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.23	37088651	45.154 ng
Spiked Amount	50.000	Recovery	=	90.31%
	Target Compounds			
3)	Nonane C9	7.95	19474607	24.589 ng
4)	DECANE C10	8.94	26474839	32.427 ng
5)	DODECANE C12	10.38	31744603	38.398 ng
6)	TETRADECANE C14	11.53	34363285	40.063 ng
7)	HEXADECANE C 16	12.52	36759231	42.547 ng
8)	OCTADECANE C18	13.42	38228269	43.876 ng
9)	NONADECANE C19	13.83	38399990	43.624 ng
10)	EICOSANE C20	14.23	38775547	44.105 ng
11)	DOCOSANE C22	14.97	39817581	44.114 ng
12)	TETRACOSANE C24	15.65	39814975	44.721 ng
13)	HEXACOSANE C26	16.29	40668785	44.696 ng
14)	OCTACOSANE C28	17.02	40543821	44.871 ng
15)	TRIACONTANE C30	17.93	40214934	45.415 ng
16)	HEXATRIACONTANE C36	23.20	35606699	53.655 ng

LCS- 84%
BMF
11/25/02

(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6438.D ET0909R.M Mon Nov 25 10:58:33 2002 HPDOS9 Page 1

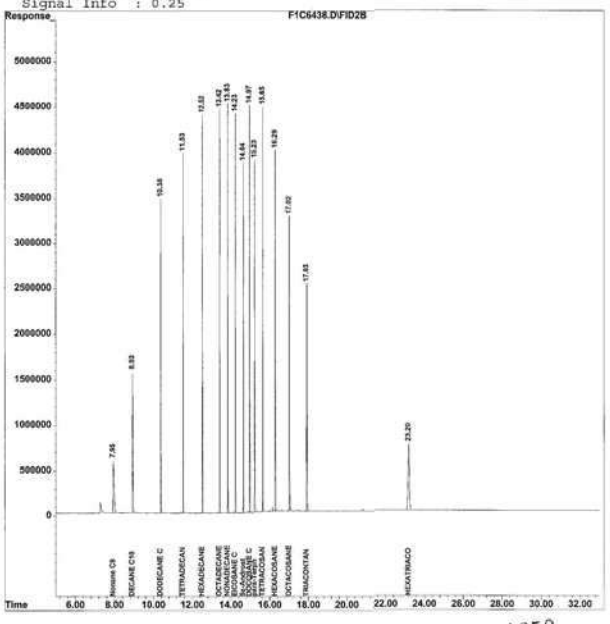
001658

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6438.D Vial: 5
Acq On : 11-21-02 12:44:24 PM Operator:
Sample : LCSD-4358 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 10:57 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6438.D ET0909R.M Mon Nov 25 10:58:42 2002 HPDOS9 Page 2

001659

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6439.D Vial: 6
Acq On : 11-21-02 12:44:24 PM Operator:
Sample : LCS-4359 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 13:41 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.18	22145430	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.74	22285137	46.147 ng
Spiked Amount	50.000	Recovery	=	92.29%
	Target Compounds			
3)	Nonane C9	8.51	14718314	28.815 ng
4)	DECANE C10	9.46	17311686	33.718 ng
5)	DODECANE C12	10.88	18836243	36.376 ng
6)	TETRADECANE C14	12.02	19394001	36.806 ng
7)	HEXADECANE C 16	13.03	20235290	38.808 ng
8)	OCTADECANE C18	13.93	20664475	39.918 ng
9)	NONADECANE C19	14.35	20561922	39.757 ng
10)	EICOSANE C20	14.74	20625759	40.286 ng
11)	DOCOSANE C22	15.49	20789122	40.564 ng
12)	TETRACOSANE C24	16.18	20380399	40.504 ng
13)	HEXACOSANE C26	16.92	20635414	40.733 ng
14)	OCTACOSANE C28	17.82	21692173	43.606 ng
15)	TRIACONTANE C30	18.99	20058621	40.943 ng
16)	HEXATRIACONTANE C36	26.15	17963254	39.653 ng

LCS=77%
BMF
11/27/02

(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6439.D ET0909F.M Mon Nov 25 13:42:18 2002 HPDOS9 Page 1

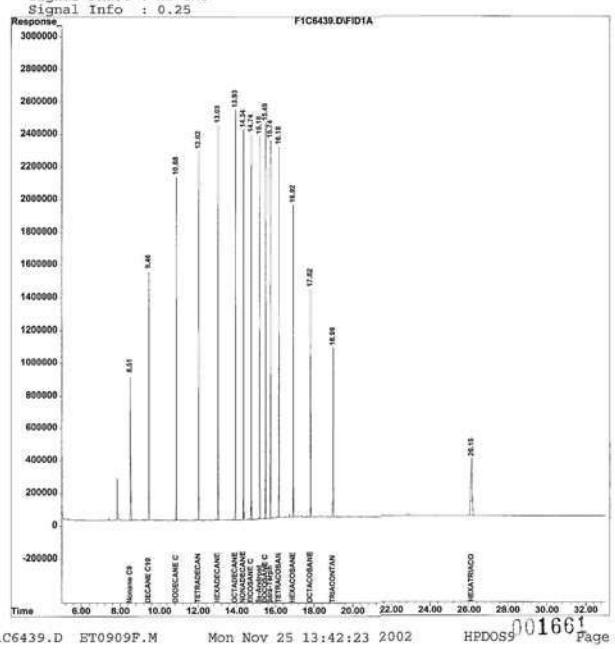
001660

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6439.D Vial: 6
Acq On : 11-21-02 12:44:24 PM Operator:
Sample : LCS-4359 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 13:41 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6439.D ET0909F.M Mon Nov 25 13:42:23 2002 HPDOS9 Page 2

001661

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6440.D Vial: 7
Acq On : 11-21-02 13:26:32 PM Operator:
Sample : LCSD-4359 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 10:59 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.65	41170271	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.23	39273824	43.734 ng
Spiked Amount	50.000	Recovery	=	87.47%
	Target Compounds			
3)	Nonane C9	7.95	26034648	30.067 ng
4)	DECANE C10	8.94	31176941	34.928 ng
5)	DODECANE C12	10.38	34580467	38.259 ng
6)	TETRADECANE C14	11.53	36371963	38.786 ng
7)	HEXADECANE C 16	12.52	38362375	40.614 ng
8)	OCTADECANE C18	13.42	39728700	41.707 ng
9)	NONADECANE C19	13.83	39789982	41.346 ng
10)	EICOSANE C20	14.23	40139369	41.761 ng
11)	DOCOSANE C22	14.97	41273660	41.826 ng
12)	TETRACOSANE C24	15.65	41399205	42.533 ng
13)	HEXACOSANE C26	16.29	42408437	42.631 ng
14)	OCTACOSANE C28	17.02	42240391	42.760 ng
15)	TRIACONTANE C30	17.93	42027890	43.412 ng
16)	HEXATRIACONTANE C36	23.20	38777347	53.447 ng

LCS = 82%.

BMF
11/27/02

001662

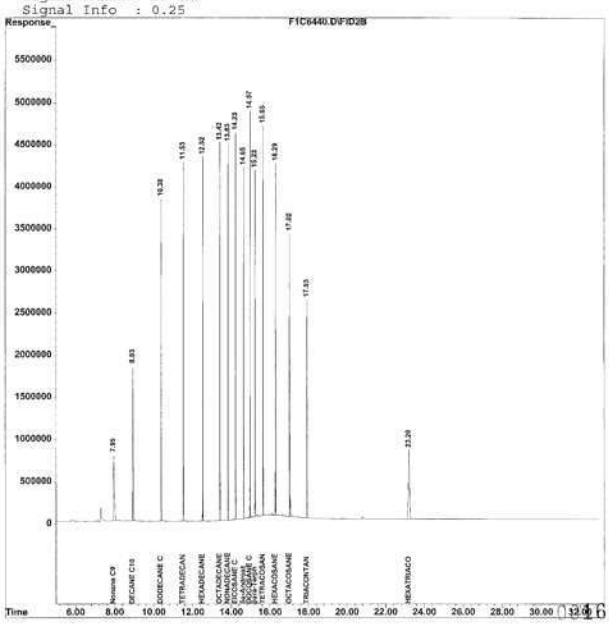
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6440.D ET0909R.M Mon Nov 25 11:00:10 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6440.D Vial: 7
Acq On : 11-21-02 13:26:32 PM Operator:
Sample : LCSD-4359 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 10:59 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001663

F1C6440.D ET0909R.M Mon Nov 25 11:00:20 2002 HPDOS9 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6441.D Vial: 8
Acq On : 11-21-02 13:26:32 PM Operator:
Sample : LCS-4369 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 13:42 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.18	20320081	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.74	20427483	46.100 ng
Spiked Amount	50.000	Recovery	=	92.20%
	Target Compounds			
3)	Nonane C9	8.51	15063640	32.141 ng
4)	DECANE C10	9.46	17520155	37.190 ng
5)	DODECANE C12	10.88	18829224	39.629 ng
6)	TETRADECANE C14	12.02	19074290	39.451 ng
7)	HEXADECANE C 16	13.03	19476382	40.708 ng
8)	OCTADECANE C18	13.93	19650170	41.369 ng
9)	NONADECANE C19	14.35	19425794	40.935 ng
10)	EICOSANE C20	14.74	19394252	41.283 ng
11)	DOCOSANE C22	15.49	19463530	41.389 ng
12)	TETRACOSANE C24	16.18	19057158	41.276 ng
13)	HEXACOSANE C26	16.92	19295232	41.508 ng
14)	OCTACOSANE C28	17.82	20296489	44.466 ng
15)	TRIACONTANE C30	19.00	18754911	41.721 ng
16)	HEXATRIACONTANE C36	26.13	15914951	38.287 ng

LCS = 80%

BMF
11/27/02

001664

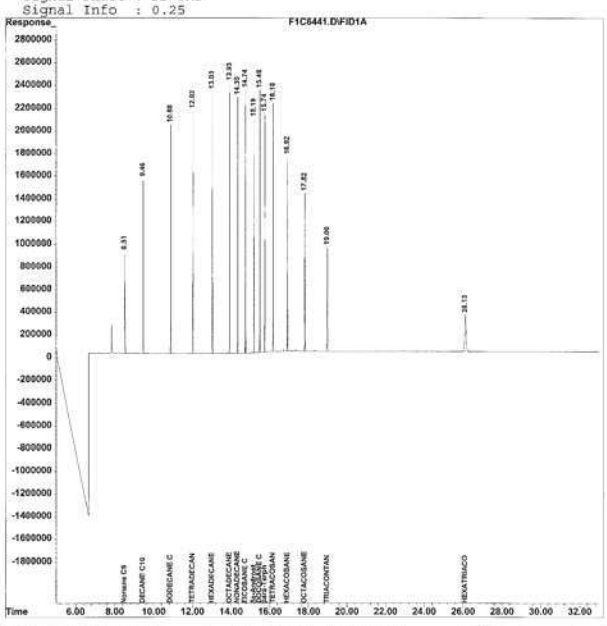
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6441.D ET0909F.M Mon Nov 25 13:43:21 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121\F1C6441.D Vial: 8
Acq On : 11-21-02 13:26:32 PM Operator:
Sample : LCS-4369 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 13:42 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001665

F1C6441.D ET0909F.M Mon Nov 25 13:43:27 2002 HPDOS9 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6442.D Vial: 9
Acq On : 11-21-02 14:08:57 PM Operator:
Sample : LCSD-4369 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:01 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.64	40730931	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.23	39949175	44.291 ng
Spiked Amount	50.000	Recovery	=	88.58%
	Target Compounds			
3)	Nonane C9	7.95	26122391	30.494 ng
4)	DECANE C10	8.93	31266541	35.406 ng
5)	DODECANE C12	10.38	34918841	39.050 ng
6)	TETRADECANE C14	11.53	36736527	39.598 ng
7)	HEXADECANE C 16	12.52	38987051	41.721 ng
8)	OCTADECANE C18	13.42	40357561	42.824 ng
9)	NONADECANE C19	13.93	40533408	42.573 ng
10)	EICOSANE C20	14.23	40937200	43.050 ng
11)	DOCOSANE C22	14.97	41979077	42.999 ng
12)	TETRACOSANE C24	15.65	41895570	43.507 ng
13)	HEXACOSANE C26	16.29	43030838	43.723 ng
14)	OCTACOSANE C28	17.02	43103169	44.104 ng
15)	TRIACONTANE C30	17.93	42442114	45.357 ng
16)	HEXATRIACONTANE C36	23.21	39321722	54.781 ng

LCS = 94%
BMF
11/27/02

(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6442.D ET0909R.M Mon Nov 25 11:01:33 2002 HPDOS9 Page 1

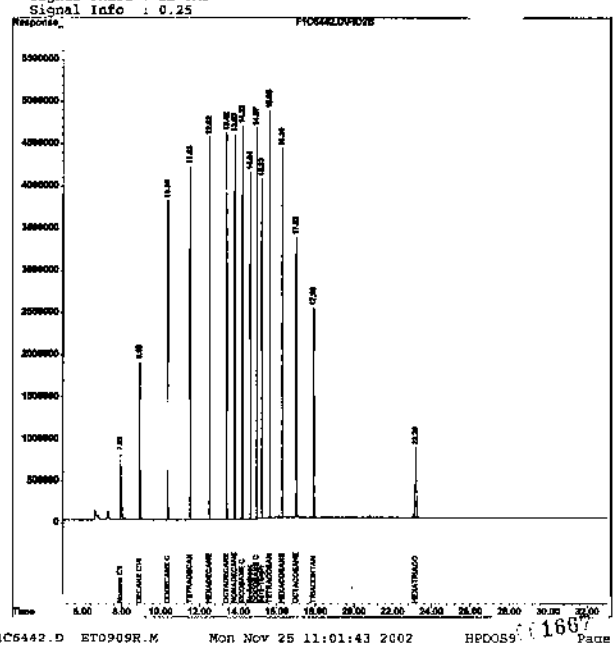
001666

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021121.SEC\F1C6442.D Vial: 9
Acq On : 11-21-02 14:08:57 PM Operator:
Sample : LCSD-4369 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 25 11:01 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6442.D ET0909R.M Mon Nov 25 11:01:43 2002 HPDOS9 Page 2

001667

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6515.D Vial: 2
Acq On : 11-26-02 14:24:01 PM Operator:
Sample : LCS-4249 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 15:30 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.13	20194112	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.69	9359036	21.253 ng
Spiked Amount	50.000	Recovery	=	42.51%
	Target Compounds			
3)	Nonane C9	8.47	9008589	19.341 ng
4)	DECANE C10	9.41	10816039	23.102 ng
5)	DODECANE C12	10.83	12121922	25.671 ng
6)	TETRADECANE C14	11.97	12820156	26.681 ng
7)	HEXADECANE C 16	12.98	13972920	29.388 ng
8)	OCTADECANE C18	13.88	14619667	30.970 ng
9)	NONADECANE C19	14.30	14663158	31.092 ng
10)	EICOSANE C20	14.70	14808801	31.719 ng
11)	DOCOSANE C22	15.45	15059686	32.224 ng
12)	TETRACOSANE C24	16.13	14880551	32.431 ng
13)	HEXACOSANE C26	16.87	15156222	32.808 ng
14)	OCTACOSANE C28	17.76	15157915	33.415 ng
15)	TRIACONTANE C30	18.91f	14984393	33.541 ng
16)	HEXATRIACONTANE C36	25.93	12754084	30.874 ng

LCS = 59%
BMF
11/27/02

(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6515.D ET0909F.M Wed Nov 27 15:33:59 2002 HPDOS9 Page 1

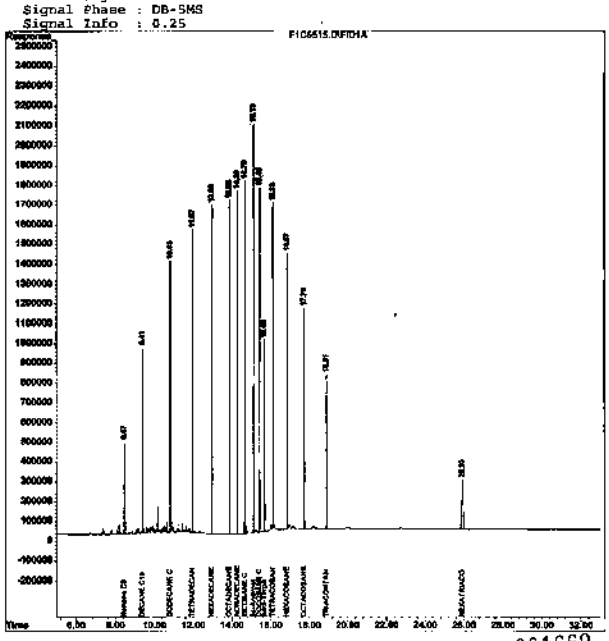
001668

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6515.D Vial: 2
Acq On : 11-26-02 14:24:01 PM Operator:
Sample : LCS-4249 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 15:30 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6515.D ET0909F.M Wed Nov 27 15:34:05 2002 HPDOS9 Page 2

001669

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6516.D Vial: 3
Acq On : 11-26-02 15:05:54 PM Operator:
Sample : LCSD-4249 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 15:23 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.62	38467394	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.20	16745289	19.957 ng
Spiked Amount	50.000	Recovery	=	39.91%
	Target Compounds			
3)	Nonane C9	7.94	18060298	22.323 ng
4)	DECANE C10	8.92	21721622	26.045 ng
5)	DODECANE C12	10.36	24116942	28.557 ng
6)	TETRADECANE C14	11.50	26097378	29.785 ng
7)	HEXADECANE C 16	12.50	28083132	31.820 ng
8)	OCTADECANE C18	13.39	29018464	32.604 ng
9)	NONADECANE C19	13.81	29028880	32.284 ng
10)	EICOSANE C20	14.20	29273291	32.596 ng
11)	DOCOSANE C22	14.94	29816971	32.339 ng
12)	TETRACOSANE C24	15.63	29290776	32.207 ng
13)	HEXACOSANE C26	16.27	29783665	32.043 ng
14)	OCTACOSANE C28	16.99	29619397	32.090 ng
15)	TRIACONTANE C30	17.89	29198357	32.279 ng
16)	HEXATRIACONTANE C36	23.11	25615332	37.786 ng

LCS= 621. BMF 11/27/02

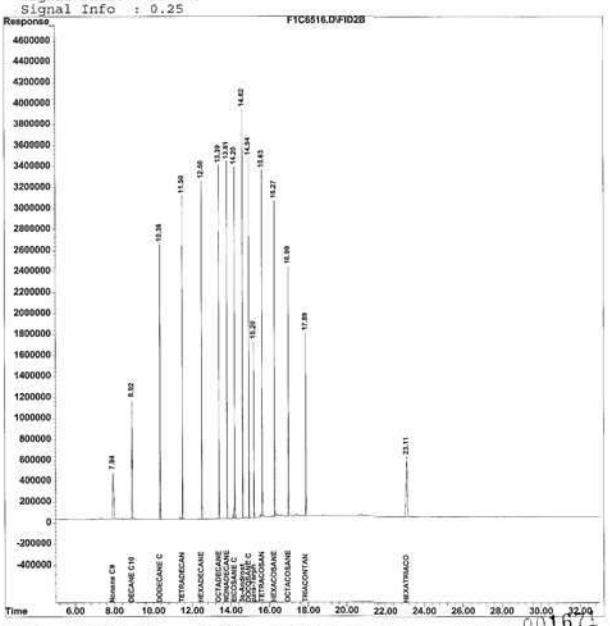
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6516.D ET0909R.M Wed Nov 27 15:23:40 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6516.D Vial: 3
Acq On : 11-26-02 15:05:54 PM Operator:
Sample : LCSD-4249 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 15:23 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6516.D ET0909R.M Wed Nov 27 15:23:50 2002 HPDOS9 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6522.D Vial: 9
Acq On : 11-26-02 17:13:47 PM Operator:
Sample : LCS-4124 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 16:01 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.62	37634328	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.20	27965585	34.068 ng
Spiked Amount	50.000	Recovery	=	68.14%
	Target Compounds			
3)	Nonane C9	7.93	19886994	25.125 ng
4)	DECANE C10	8.92	24054029	29.480 ng
5)	DODECANE C12	10.36	26580500	32.171 ng
6)	TETRADECANE C14	11.50	27989809	32.652 ng
7)	HEXADECANE C 16	12.50	29406836	34.058 ng
8)	OCTADECANE C18	13.39	30287046	34.782 ng
9)	NONADECANE C19	13.81	30346327	34.496 ng
10)	EICOSANE C20	14.20	30724710	34.969 ng
11)	DOCOSANE C22	14.94	31474964	34.893 ng
12)	TETRACOSANE C24	15.63	30790601	34.606 ng
13)	HEXACOSANE C26	16.27	31440665	34.575 ng
14)	OCTACOSANE C28	16.99	31294726	34.656 ng
15)	TRIACONTANE C30	17.89	30816519	34.822 ng
16)	HEXATRIACONTANE C36	23.10	29442290	44.393 ng

LCS= 681. BMF 11/27/02

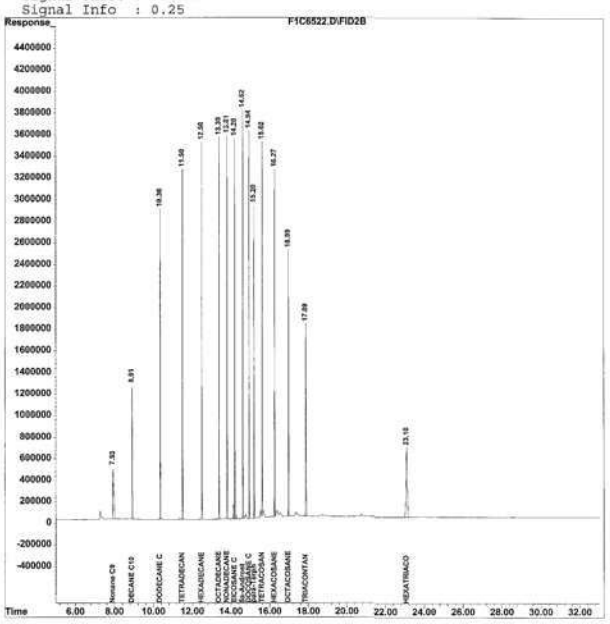
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6522.D ET0909R.M Wed Nov 27 16:11:11 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\NOV02\021126.SEC\F1C6522.D Vial: 9
Acq On : 11-26-02 17:13:47 PM Operator:
Sample : LCS-4124 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 16:01 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Thu Oct 31 09:51:58 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6522.D ET0909R.M Wed Nov 27 16:11:21 2002 HPDOS9 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6523.D Vial: 10
Acq On : 11-26-02 17:13:47 PM Operator:
Sample : LCSD-4124 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 16:15 19102 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5a-Androstane	15.13	19016951	40.000 ng
System Monitoring Compounds			
2) S para-Terphenyl	15.69	16565126	39.945 ng
Spiked Amount 50.000		Recovery =	79.89%
Target Compounds			
3) Nonane C9	8.47	10636917	24.251 ng
4) DECANE C10	9.41	12462744	28.267 ng
5) DODECANE C12	10.83	13482498	30.320 ng
6) TETRADECANE C14	11.98	13941817	30.812 ng
7) HEXADECANE C 16	12.98	14454820	32.283 ng
8) OCTADECANE C18	13.88	14729696	33.135 ng
9) NONADECANE C19	14.30	14702140	33.104 ng
10) EICOSANE C20	14.70	14818935	33.706 ng
11) DOCOSANE C22	15.45	15089721	34.287 ng
12) TETRACOSANE C24	16.13	15098857	34.944 ng
13) HEXACOSANE C26	16.87	15247197	35.048 ng
14) OCTACOSANE C28	17.76	15283651	35.778 ng
15) TRIACONTANE C30	18.91f	15212032	36.158 ng
16) HEXATRIACONTANE C36	25.92	14347942	36.883 ng

LCS = 66'l.
BMF
11/27/02

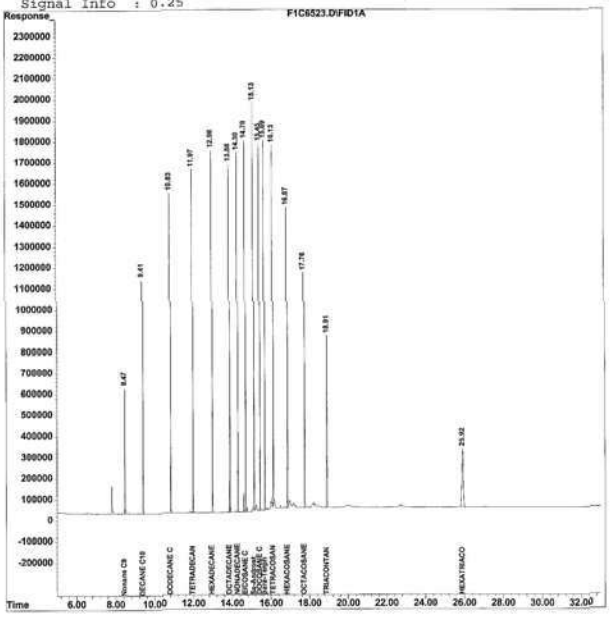
(f)=RT Delta > 1/2 Window (m)=manual
F1C6523.D ET0909F.M Wed Nov 27 16:15:51 2002 HPDOS9 Page 1

Quantitation Report

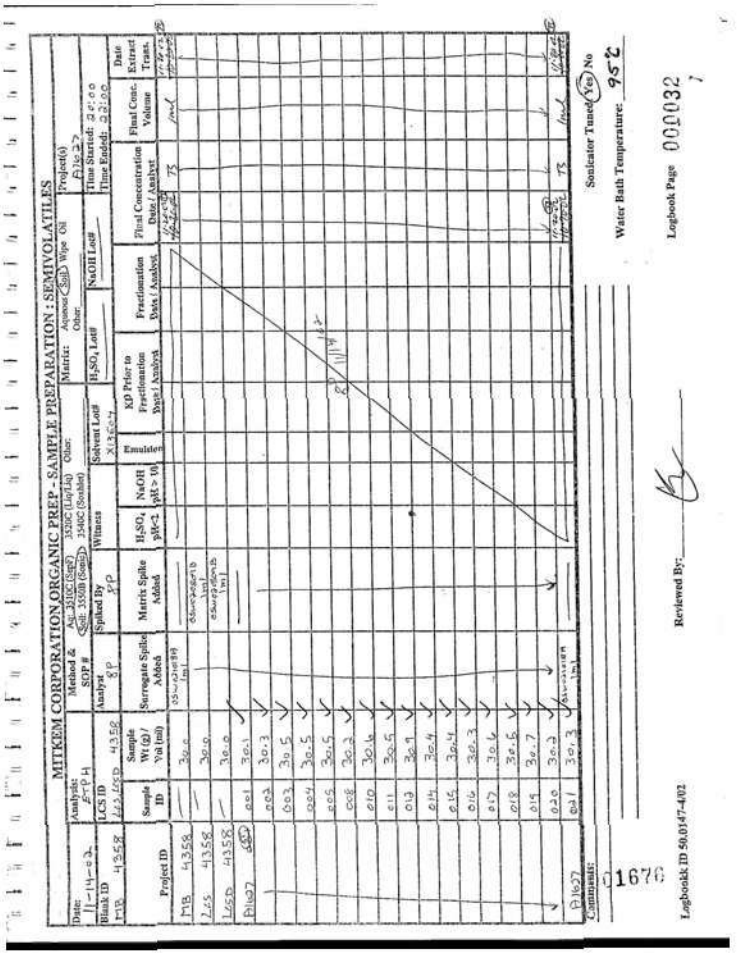
Data File : C:\HPCHEM\1\DATA\NOV02\021126\F1C6523.D Vial: 10
Acq On : 11-26-02 17:13:47 PM Operator:
Sample : LCSD-4124 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Nov 27 16:15 19102 Quant Results File: ET0909F.RES

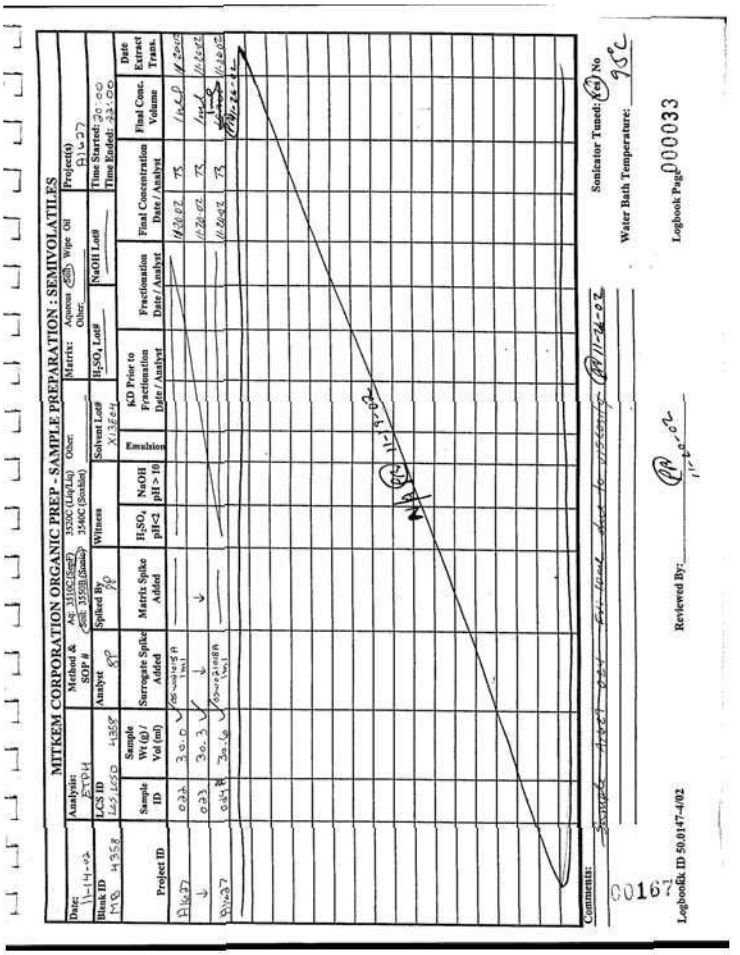
Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Nov 20 14:29:51 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6523.D ET0909F.M Wed Nov 27 16:15:56 2002 HPDOS9 Page 2





MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : SEMIVOLATILES

Date: 11-15-02 | Analysis: ETPH | Method & SOP #: Aq: 3510C (SepF) Soil: 3550B (Sonic) 3520C (Liq/Liq) 3540C (Soxhlet) | Other: | Matrix: Aqueous Soil Wipe Oil Other: | Project(s): A1627

Blank ID: MB-4369 | LCS ID: LCS-4369 LCSD-4369 | Analyst: JC | Spiked By: JC | Witness: DK | Solvent Lot#: X13E04 | H_2SO_4 Lot#: | NaOH Lot#: | Time Started: 16:00 | Time Ended: 16:50

Project ID	Sample ID	Sample Wt (g) / Vol (ml)	Surrogate Spike Added	Matrix Spike Added	H_2SO_4 pH<2	NaOH pH > 10	Emulsion	KD Prior to Fractionation Date / Analyst	Fractionation Date / Analyst	Final Concentration Date / Analyst		Final Conc. Volume	Date Extract Trans.
MB-4369		30.0	1ml 05W0210188	—						11-20-02	TR	1ml	11-20-02
LCS-4369		30.0		1ml 05W0228048									
LCSD-4369		30.0		1ml 05W0228048									
A1627	049	30.0 ✓											
	050	30.9 ✓											
	052	30.6 ✓											
	053	30.8 ✓											
	056	30.9 ✓										1ml	
	057*	30.2 ✓										Combine	
	058	30.9 ✓										1ml	
A1627	059	30.4 ✓	1ml 05W0310188	—						11-20-02	TR	1ml	11-20-02

NA 11-19-02

Comments: * Sample A1627-057 FV: 10 ml due to viscosity 11-26-02

Sonicator Tuned: Yes / No

Water Bath Temperature: 95°C

1660

Logbookk ID 50.0147-4/02 | Reviewed By: 11-20-02 | Logbook Page 000037

MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : SEMIVOLATILES

Date: 11-14-02 | Analysis: ETPH | Method & SOP #: Aq: 3510C (SepF) Soil: 3550B (Sonic) 3520C (Liq/Liq) 3540C (Soxhlet) | Other: | Matrix: Aqueous Soil Wipe Oil Other: | Project(s): A1627

Blank ID: MB 4359 | LCS ID: LCS, LCSD 4359 | Analyst: BP | Spiked By: BP | Witness: | Solvent Lot#: X13E04 | H_2SO_4 Lot#: | NaOH Lot#: | Time Started: 22:00 | Time Ended: 23:00

Project ID	Sample ID	Sample Wt (g) / Vol (ml)	Surrogate Spike Added	Matrix Spike Added	H_2SO_4 pH<2	NaOH pH > 10	Emulsion	KD Prior to Fractionation Date / Analyst	Fractionation Date / Analyst	Final Concentration Date / Analyst		Final Conc. Volume	Date Extract Trans.
MB 4359	—	30.0	05W0310188 1ml	—						11-20-02	TR	1ml	11-20-02
LCS 4359	—	30.0		05W0228048 1ml									
LCSD 4359	—	30.0		05W0228048 1ml									
A1627	026	30.6 ✓											
	027	30.9 ✓											
	028	30.5 ✓											
	029	30.4 ✓											
	030	30.3 ✓											
	031	30.4 ✓											
	032*	30.4 ✓										1ml	
	033	30.6 ✓										Combine 10ml	
	034	30.2 ✓										1ml	
	035	30.5 ✓											
	038	30.0 ✓											
	039	30.3 ✓											
	040	30.4 ✓											
	041	30.7 ✓											
	042	30.5 ✓											
	043	30.6 ✓										1ml	
A1627	044*	30.4 ✓	05W0310188 1ml							11-20-02	TR	10ml	11-20-02

Comments: * Samples A1627-032, 044 FV: 10ml due to viscosity 11-26-02

Sonicator Tuned: Yes / No

Water Bath Temperature: 95°C

1618

Logbookk ID 50.0147-4/02 | Reviewed By: 11-20-02 | Logbook Page 000034

MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : SEMIVOLATILES

Date: 11-11-02 | Analysis: ETPH | Method & SOP #: Aq: 3510C (SepF) Soil: 3550B (Sonic) 3520C (Liq/Liq) 3540C (Soxhlet) | Other: | Matrix: Aqueous Soil Wipe Oil Other: | Project(s): A1627

Blank ID: MB 4249 | LCS ID: LCS, LCSD 4349 | Analyst: BP | Spiked By: BP | Witness: | Solvent Lot#: X13E04 | H_2SO_4 Lot#: | NaOH Lot#: | Time Started: 10:00 | Time Ended: 11:00

Project ID	Sample ID	Sample Wt (g) / Vol (ml)	Surrogate Spike Added	Matrix Spike Added	H_2SO_4 pH<2	NaOH pH > 10	Emulsion	KD Prior to Fractionation Date / Analyst	Fractionation Date / Analyst	Final Concentration Date / Analyst		Final Conc. Volume	Date Extract Trans.
MB 4249	—	1000 ml	05W0210188 1ml	—						11-25-02	BP	1 ml	11-25-02
LCS 4249	—			05W0228048 1ml									
LCSD 4249	—			05W0228048 1ml									
A1627	007												
	013												
	035												
A1627	051	1000 ml	05W0210188 1ml	—						11-25-02	BP	1 ml	11-25-02

BP 11-11-02

(BP) 11-11-02

Comments:

Sonicator Tuned: Yes / No

Water Bath Temperature:

1669

Logbookk ID 50.0147-4/02 | Reviewed By: | Logbook Page 000022

MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : SEMIVOLATILES

Date: 11-19-02 | Analysis: ETPH | Method & SOP #: Aq: 3510C (SepF) Soil: 3550B (Sonic) 3520C (Liq/Liq) 3540C (Soxhlet) | Other: | Matrix: Aqueous Soil Wipe Oil Other: | Project(s): A1627

Blank ID: MB 4359 | LCS ID: LCS, LCSD 4359 | Analyst: BP | Spiked By: BP | Witness: | Solvent Lot#: X13E04 | H_2SO_4 Lot#: | NaOH Lot#: | Time Started: 22:00 | Time Ended: 23:00

Project ID	Sample ID	Sample Wt (g) / Vol (ml)	Surrogate Spike Added	Matrix Spike Added	H_2SO_4 pH<2	NaOH pH > 10	Emulsion	KD Prior to Fractionation Date / Analyst	Fractionation Date / Analyst	Final Concentration Date / Analyst		Final Conc. Volume	Date Extract Trans.
A1627	045	30.5 ✓	05W0310188 1ml	—						11-20-02	TR	1ml	11-20-02
↓	046*	30.3 ✓	↓	↓						11-20-02	TR	10ml	11-20-02
A1627	047*	30.5 ✓	05W0310188 1ml	—						11-20-02	TR	10ml	11-20-02

N/A 11-19-02

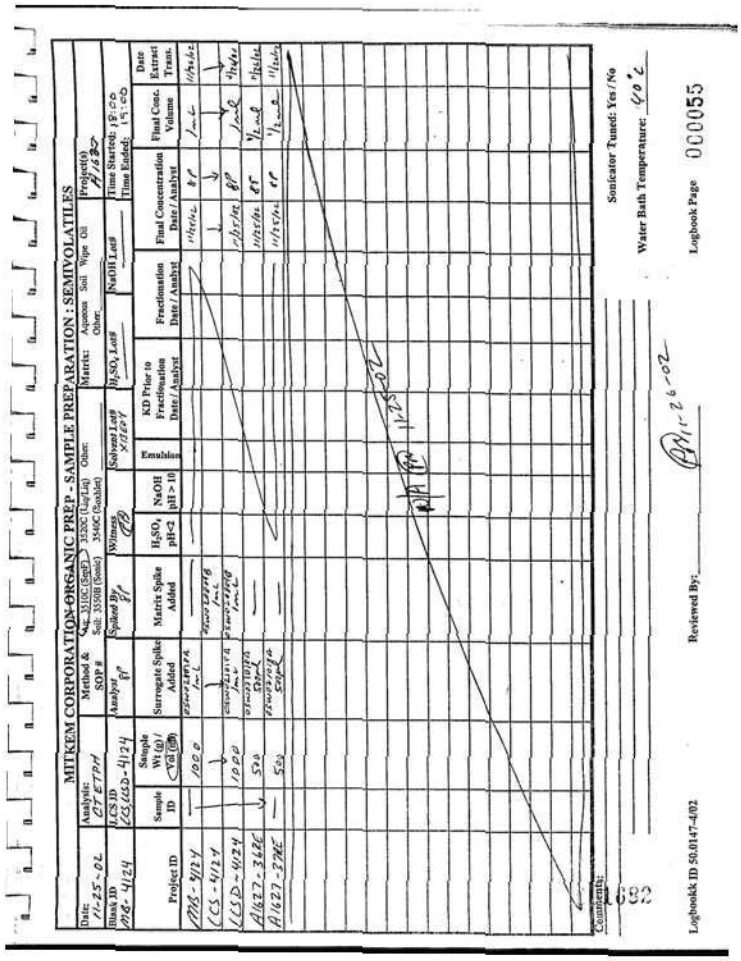
Comments: * Samples A1627 046, 047 FV: 10ml due to viscosity

Sonicator Tuned: Yes / No

Water Bath Temperature: 95°

1679

Logbookk ID 50.0147-4/02 | Reviewed By: | Logbook Page 000035



MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : SEMIVOLATILES

Date: 11-25-02 | Analysis: EPH | Method & SOP #: Soil: 3550B (Sonic) | Matrix: Aqueous Soil Wipe Oil | Project(s): A1627

Blank ID: MB-4124 | LCS ID: LCS,LCSD-4124 | Analyst: BP | Spiked By: BP | Witness: | H_2SO_4 pH<2 | NaOH pH > 10 | Solvent Lot#: X132G4 | H_2SO_4 Lot#: | NaOH Lot#: | Time Started: 18:00 | Time Ended: 15:00

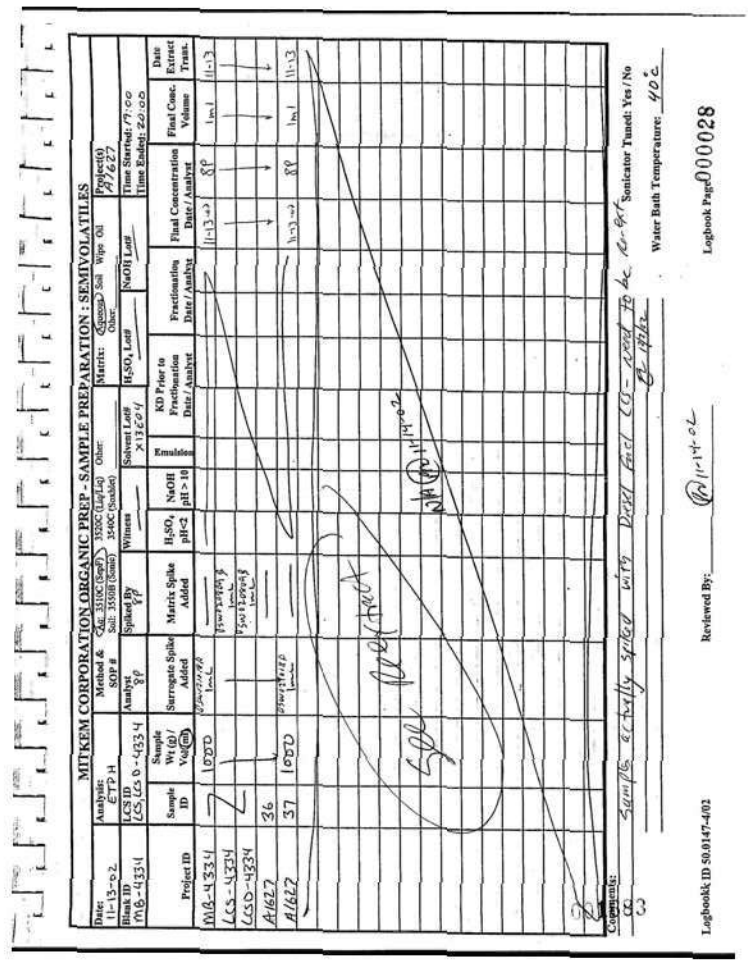
Project ID	Sample ID	Sample Wt (g) / Vol (ml)	Surrogate Spike Added	Matrix Spike Added	KD Prior to Fractionation Date / Analyst	Emulsion	Fractionation Date / Analyst	Final Concentration Date / Analyst	Final Conc. Volume	Date Extract Trans.
MB-4124	—	100 ml	2FBP, TBP, 2-FP, d14-TP, d5-NB, d5-PHE, d10-ANT, d12-BAP, d12-BPE	1,2,4-TCB, 1,4-DCB, HEX, NIT, ACE, 2,4-DNT, PYR, BBZP, BAA, CHR, BBF, BKF, BAP, IND, DBA, BPE				11/15/02 BP	1 mL	11/18/02
LCS-4124	—	100 ml	2FBP, TBP, 2-FP, d14-TP, d5-NB, d5-PHE, d10-ANT, d12-BAP, d12-BPE	1,2,4-TCB, 1,4-DCB, HEX, NIT, ACE, 2,4-DNT, PYR, BBZP, BAA, CHR, BBF, BKF, BAP, IND, DBA, BPE				11/15/02 BP	1 mL	11/18/02
LCSD-4124	—	1000 ml	2FBP, TBP, 2-FP, d14-TP, d5-NB, d5-PHE, d10-ANT, d12-BAP, d12-BPE	1,2,4-TCB, 1,4-DCB, HEX, NIT, ACE, 2,4-DNT, PYR, BBZP, BAA, CHR, BBF, BKF, BAP, IND, DBA, BPE				11/15/02 BP	1 mL	11/18/02
A1627-34E	—	520 ml	2FBP, TBP, 2-FP, d14-TP, d5-NB, d5-PHE, d10-ANT, d12-BAP, d12-BPE					11/15/02 BP	1 mL	11/18/02
A1627-37E	—	520 ml	2FBP, TBP, 2-FP, d14-TP, d5-NB, d5-PHE, d10-ANT, d12-BAP, d12-BPE					11/15/02 BP	1 mL	11/18/02

Comments: 682

Sonicator Tuned: Yes / No

Water Bath Temperature: 40°C

Logbook ID 50.0147-402 | Reviewed By: | 11-26-02 | Logbook Page 000055



MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : SEMIVOLATILES

Date: 11-13-02 | Analysis: EPH | Method & SOP #: Soil: 3550B (Sonic) | Matrix: Aqueous Soil Wipe Oil | Project(s): A1627

Blank ID: MB-43341 | LCS ID: LCS,LCSD-4334 | Analyst: BP | Spiked By: BP | Witness: | H_2SO_4 pH<2 | NaOH pH > 10 | Solvent Lot#: X132G4 | H_2SO_4 Lot#: | NaOH Lot#: | Time Started: 17:00 | Time Ended: 20:00

Project ID	Sample ID	Sample Wt (g) / Vol (ml)	Surrogate Spike Added	Matrix Spike Added	KD Prior to Fractionation Date / Analyst	Emulsion	Fractionation Date / Analyst	Final Concentration Date / Analyst	Final Conc. Volume	Date Extract Trans.
MB-43341	7	1000 ml	2FBP, TBP, 2-FP, d14-TP, d5-NB, d5-PHE, d10-ANT, d12-BAP, d12-BPE	1,2,4-TCB, 1,4-DCB, HEX, NIT, ACE, 2,4-DNT, PYR, BBZP, BAA, CHR, BBF, BKF, BAP, IND, DBA, BPE			11-13-02	11-13-02 BP	1 mL	11-13
LCS-4334	7	1000 ml	2FBP, TBP, 2-FP, d14-TP, d5-NB, d5-PHE, d10-ANT, d12-BAP, d12-BPE	1,2,4-TCB, 1,4-DCB, HEX, NIT, ACE, 2,4-DNT, PYR, BBZP, BAA, CHR, BBF, BKF, BAP, IND, DBA, BPE						
LCSD-4334	36	1000 ml	2FBP, TBP, 2-FP, d14-TP, d5-NB, d5-PHE, d10-ANT, d12-BAP, d12-BPE							
A1627	37	1000 ml	2FBP, TBP, 2-FP, d14-TP, d5-NB, d5-PHE, d10-ANT, d12-BAP, d12-BPE					11-13-02 BP	1 mL	11-13
A1627										

Comments: Sample activity spiked with Diesel Fuel #2 & Re-Ext

Sonicator Tuned: Yes / No

Water Bath Temperature: 40°C

Logbook ID 50.0147-402 | Reviewed By: | 11-14-02 | Logbook Page 000028

Percent Moisture and Percent Solids Report

Mitkem Sample ID	Client Sample ID	Analyzed	Percent Moisture	Percent Solids	Validated
A1627-01A	04 NOV 02 AOC1+12-T	11/14/2002	19	81	Yes
A1627-02C	04 NOV 02 AOC1+12-T	11/14/2002	13	87	Yes
A1627-03C	04 NOV 02 AOC1+12T	11/14/2002	9	91	Yes
A1627-04A	04 NOV 02 AOC1+12-S	11/14/2002	20	80	Yes
A1627-05A	04 NOV 02 AOC1+12-S	11/14/2002	17	83	Yes
A1627-08A	04 NOV 02 AOC1+12-S	11/14/2002	39	61	Yes
A1627-09A	04 NOV 02 AOC1+12-S	11/14/2002	11	89	Yes
A1627-10A	04 NOV 02 AOC1+12-S	11/14/2002	23	77	Yes
A1627-11A	04 NOV 02 AOC1+12-S	11/14/2002	19	81	Yes
A1627-12A	04 NOV 02 AOC1+12-S	11/14/2002	12	88	Yes
A1627-14A	05 NOV 02-AOC13-SS-	11/14/2002	11	89	Yes
A1627-15A	05 NOV 02-AOC13-SS-	11/14/2002	20	80	Yes
A1627-16A	05 NOV 02-AOC13-SS-	11/14/2002	11	89	Yes
A1627-17A	05 NOV 02-AOC13-SS-	11/14/2002	9	91	Yes
A1627-18A	05 NOV 02-AOC13-SS-	11/14/2002	16	84	Yes
A1627-19A	05 NOV 02-AOC13-SS-	11/14/2002	13	87	Yes
A1627-20A	05 NOV 02-AOC13-SS-	11/14/2002	16	84	Yes
A1627-21A	05 NOV 02-AOC13-SS-	11/14/2002	7	93	Yes
A1627-22A	05 NOV 02-AOC13-SS-	11/14/2002	20	80	Yes
A1627-23A	05 NOV 02-AOC13-SS-	11/14/2002	6	94	Yes
A1627-24A	05 NOV 02-AOC13-SS-	11/14/2002	12	88	Yes
A1627-26A	05 NOV 02AOC13-SS-D	11/14/2002	16	84	Yes
A1627-27A	05 NOV 02 AOC13-SS-	11/14/2002	16	84	Yes
A1627-28A	05 NOV 02 AOC13-SS-T	11/14/2002	14	86	Yes
A1627-29C	05 NOV 02 AOC13-SS-T	11/14/2002	16	84	Yes
A1627-30C	05 NOV 02 AOC13-SS-T	11/14/2002	15	85	Yes
A1627-31C	05 NOV 02 AOC13-SS-T	11/14/2002	6	94	Yes
A1627-32A	04 NOV 02 AOC13-SS-T	11/14/2002	2	98	Yes
A1627-33A	04 NOV 02 AOC13-SS-T	11/14/2002	10	90	Yes
A1627-34A	04 NOV 02 AOC13-SS-T	11/14/2002	10	90	Yes
A1627-35A	05 NOV 02 AOC13-SS-T	11/14/2002	16	84	Yes
A1627-38A	06 NOV02-AOC2-SS-TB	11/14/2002	11	89	Yes
A1627-39A	06 NOV02-AOC2-SS-TB	11/14/2002	15	85	Yes
A1627-40A	06 NOV02-AOC2-SS-TB	11/14/2002	7	93	Yes
A1627-41A	06 NOV02-AOC2-SS-TB	11/14/2002	17	83	Yes
A1627-42A	07 NOV02-AOC2-SS-TB	11/14/2002	7	93	Yes
A1627-43A	07 NOV02-AOC2-SS-TB	11/14/2002	10	90	Yes
A1627-44A	04 NOV02-AOC1+12-S	11/14/2002	2	98	Yes
A1627-45A	04 NOV02-AOC1+12-S	11/14/2002	11	89	Yes
A1627-46A	04 NOV02-AOC1+12-S	11/14/2002	4	96	Yes

001684

Mitkem Sample ID	Client Sample ID	Analyzed	Percent Moisture	Percent Solids	Validated
A1627-47A	04 NOV02-AOC1-12-S	11/14/2002	7	93	Yes
A1627-49A	07 NOV02-AOC2-SS-TB	11/14/2002	12	88	Yes
A1627-50A	07 NOV02-AOC2-SS-TB	11/14/2002	9	91	Yes
A1627-52A	07 NOV02-AOC2-SS-D3	11/14/2002	93	7	Yes
A1627-52A	07 NOV02-AOC2-SS-D3	11/20/2002	10	90	Yes
A1627-53A	07 NOV02-AOC2-SS-D3	11/14/2002	10	90	Yes
A1627-54A	07 NOV02-AOC2-SS-D4	11/14/2002	15	85	Yes
A1627-53A	07 NOV02-AOC2-SS-D4	11/14/2002	12	88	Yes
A1627-56A	07 NOV02-AOC2-SS-TB	11/14/2002	9	91	Yes
A1627-57A	07 NOV02-AOC2-SS-TB	11/14/2002	13	87	Yes
A1627-58A	07 NOV02-AOC2-SS-TB	11/14/2002	9	91	Yes
A1627-59A	07 NOV02-AOC2-SS-TB	11/14/2002	15	85	Yes

001685

Mitkem Corporation: TPH/EPH Run Log

Date	Lab ID		Client	Method	Filename		Dilution	yes/no	Analyst	Comments
11/21/02	ETPH CCV			ETPH-B	FIC G4	30		✓	BMF	
	IBLK					32				
	MB-4358					34		✓		
	MB4369					36		✓		
	LCSD-4358					38		✓		
	LCSD-4359					40		✓		
	LCSD-4369					42		✓		
	A1627-	02A				44		✓		
		04A				46		✓		
		08A				48		✓		
	↓	11A				50		✓		
	A1627-	14A				52		✓		
	IBLK					54				
	ETPH CCV					56		✓		
	IBLK					58				
	A1627-	16A				60		✓		
		18A				62		✓		
		20A				64		✓		
↓		22A				66		✓		
11/21/02		24A				68		✓D		toodilute & rerun
11/22/02		27A				70		✓		
↓		29A				72		✓		
↓	↓	31A		↓	↓	74		✓	↓	
11/22/02	A1627-	33A		ETPH-B	FIC G4	76		✓	BMF	

Logbook ID: 60.0177-1/02 Reviewed by _____ Logbook page 000009

11688

MITKEM CORPORATION: TPH/EPH Run Logbook

Date	Lab ID	Client	Method	Filename	Dilution	yes/no	Analyst	Comments
9/5/02	ETPH CCV		ETPH-B	FIC5044		✓	BMF	
	IBLK			46				
	F0903-BS1			48		✓		
	F0903-LS1			50		✓		
	F0903-LS1 DUP			52		✓		
	MB-3182			54		✓		
	LCS-3182			56		✓		
	LCSD-3182			58		✓		
	A1280-01A			60		✓		
	A1280-02A			62		✓		FV: 10mL
	A1280-03A			64		✓		FV: 10mL
	A1312-01A			66		ND		
↓	IBLK		↓	↓ 68			↓	
9/5/02	ETPH CCV		ETPH-B	FIC 5070		✓	BMF	
	IBLK			72				
	A1312-01A		↓	↓ 74	10	✓	↓	
↓	IBLK			76				
9/6/02	ETPH CCV		ETPH-B	FIC 5078		✓	BMF	Non ICAL
9/6/02	ETPH L1A		ETPH-B	FIC 5084		✓		good BMF 9/9/02
	L1			86		✓		
	L2			88		✓		
	L3			90		✓		
	L4			92		✓		
↓	L5		↓	↓ 94		✓	↓	
9/6/02	ETPH 2S		ETPH-B	FIC5096		✓	BMF	

QA-F00146 9PB-12 Reviewed By: _____ Page: 000055

11689

Mitkem Corporation: TPH/EPH Run Log

Date	Lab ID		Client	Method	Filename		Dilution	yes/no	Analyst	Comments
11/22/02	A1627-	35A		ETPH-B	FIC G4	78		✓	BMF	
	IBLK					80				
	ETPH CCV					82		✓		
	IBLK					84				
	A1627-	39A				86		✓		
		41A				88		✓		
		43A				90		✓		
		45A				92		ND		DL x 10
		49A				94		✓		
		52A				96		✓		
		54A			FIC G4	98		✓		
	↓	58A			FIC G5	00		✓		
	A1627-	59A				02		✓		
↓	IBLK			↓	↓	04			↓	
11/22/02	ETPH CCV			ETPH-B	FIC G5	06		✓	BMF	
11/21/02	ETPH CCV			ETPH-B	FIC G4	31		✓	BMF	
	IBLK					33			BMF	
	MB-4359					35		✓		
	LCS-4358					37		✓		
	LCS-4359					39		✓		
	LCS-4369					41		✓		
	A1627-	01A				43		✓		
↓	↓	03A		↓	↓	45		✓	↓	
11/21/02	A1627-	05A		ETPH-B	FIC G4	47		✓	BMF	

Logbook ID: 60.0177-1/02 Reviewed by _____ Logbook page 000010

11690

MITKEM CORPORATION: TPH/EPH Run Logbook

Date	Lab ID	Client	Method	Filename	Dilution	yes/no	Analyst	Comments
9/6/02	ETPH L1A		ETPH-B	FIC5083		✓	BMF	
	L1			85		✓		
	L2			87		✓		
	L3			89		✓		
	L4			91		✓		
	↓ L5			93		✓		
	ETPH 2S			95		✓		
	IBLK			97				
	F0821-BW1			↓ 99		✓		
	F0821-LW1			FIC5101		✓		
	F0821-LW1D			03		✓		
	A1243-01C			05		✓		
	02E			07		✓		
	03E			09		✓		
	04E			11		✓		
	06D			13		✓		
	↓ 07D			15		✓		
	A1243-08D			17		✓		
	IBLK			19				
	ETPH CCV			21		✓		
	IBLK			23				
	A1243-10D			25		✓		
	A1243-11D			27		✓		
↓	A1243-14B		↓	↓ 29		✓	↓	
9/6/02	A1243-15D		ETPH-B	FIC5131		✓	BMF	

QA-F00146 9PB-12 Reviewed By: _____ Page: 000057

11691

Mitkem Corporation: TPH/EPH Run Log

Date	Lab ID		Client	Method	Filename		Dilution	yes/no	Analyst	Comments
11/26/02	LCSD-4486			ETPH-B	FIC65	46			BMF	
↓	IBLK			↓	↓	48			↓	
11/26/02	ETPH CCV			ETPH-B	FIC65	50		✓	BMF	
11/26/02	ETPH CCV			ETPH-B	FIC65	11		✓	BMF	
	IBLK					13		✓		clean
	LCS-4249					15		✓		some contamination
	A1627-	07C				17		✓		
	A1627-	25C				19		✓		
	MB4124					21		✓		
	LCSD-4124					23		✓		
	A1627-	37B				25		✓		
	↓ -	24A				27		✓		
	A1627-	57A				29		✓		
	IBLK					31				
	IBLK					33				
	ETPH CCV					35		✓		
	IBLK					37				
	LCS-4488					39				
	A1728-	01F				41				
	A1728-	03F				43				
	LCS-4486					45				
	A1680-	22C				47				
	IBLK					49			↓	
11/26/02	ETPH CCV			ETPH-B	FIC65	51		✓	BMF	

001692

Logbook ID: 60.0177-1/02 Reviewed by Logbook page 000013

Mitkem Corporation: TPH/EPH Run Log

Date	Lab ID		Client	Method	Filename		Dilution	yes/no	Analyst	Comments
11/21/02	A1627-	10A		ETPH-B	FIC64	49		✓	BMF	
↓	↓	12A		↓	↓	51		✓	↓	
	A1627-	15A				53		✓		
	IBLK					55				
	ETPH CCV					57		✓		
	IBLK					59				
	A1627-	17A				61		✓		
	↓	19A				63		✓		
		21A				65		✓		
↓		23A				67		✓		
11/21/02		26A				69		✓		
11/22/02		28A				71		✓		
		30A				73		✓		
		32A				75		no		too dilute @ 5 mL
	↓	34A				77		✓		
	A1627-	38A				79		✓		
	IBLK					81				
	ETPH CCV					83		✓		
	IBLK					85				
	A1627-	46A				87		✓		
	↓	42A				89		✓		
		44A				91		✓		
↓	↓	46A		↓	↓	93		✓	↓	
11/26/02	A1627-	50A		ETPH-B	FIC64	95		✓	BMF	

001690

Logbook ID: 60.0177-1/02 Reviewed by Logbook page 000011

Last Page of Data Report

001693

Mitkem Corporation: TPH/EPH Run Log

Date	Lab ID		Client	Method	Filename		Dilution	yes/no	Analyst	Comments
11/22/02	A1627-	53A		ETPH-B	FIC64	97		✓	BMF	
↓	↓	57A			FIC64	99		no		too dilute @ 1 mL
	A1627-	47A			FIC65	01		✓		
	IBLK				↓	03				
↓	IBLK			↓	↓	05			↓	
11/27/02	ETPH CCV			ETPH-B	FIC65	07		✓	BMF	
11/27/02	ETPH CCV			ETPH-B	FIC65	10		✓	BMF	
	IBLK					12				
	MB-4249					14		✓		
	LCSD-4249					16		✓		
	A1627-13C					18		✓		
	A1627-51C					20		✓		
	LCS-4124					22		✓		
	A1627-	30B				24		✓		
	↓	45A				26	10	✓		
	A1627-	32A				28		✓		
	IBLK					30				
↓	IBLK			↓		32			↓	
11/26/02	ETPH CCV			ETPH-B		34		✓	BMF	
	IBLK					36				
	MB-4488					38				
	LCSD-4488					40				
	~~IBLK~~		A1728-02F			42			↓	
11/26/02	~~ETPH CCV~~		~~LCSD-MB-4486~~	ETPH-B	FIC65	44		✓	BMF	

001691

Logbook ID: 60.0177-1/02 Reviewed by Logbook page 000012

MITKEM CORPORATION

"Environmental Testing For The New Millennium"

January 30, 2003

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Attn: Ms. Melody Bova

RE: Client Project: Former Howe Furniture Site, HOW0016.RA
Mitkem Lab Project # A1905

Dear Ms. Bova:

Enclosed please find the data report of the required analyses for the samples associated with the above referenced project.

This deliverable includes a hard copy of the data summary portion of the report, and a CD containing a .pdf file of the full data package. The hard copy of the full data package report has been forwarded to Mr. Glenn Esler of Environmental Standards, Inc.

If you have any questions regarding this report, please call me.

We appreciate your business.

Sincerely,

Agnes R. Ng
CLP Project Manager

CC: Glenn Esler, Environmental Standards, Inc.

175 Metro Center Boulevard • Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499 • www.mitkem.com

MITKEM CORPORATION

* Data Summary Pack *

Analytical Data Package for HRP Associates, Inc.

Client Project: Former Howe Furniture Site

Mitkem Project ID: A1905

January 30, 2003

SDG Narrative

Mitkem Corporation submits the enclosed data package in response to HRP Associates' Former Howe Furniture Site project. Under this deliverable, analysis results are presented for 8 aqueous, 3 cement and nineteen soil samples that were received at Mitkem on December 23, 2002. Analyses were performed per specifications in the project's contract and the chain of custody forms following discussion with the client. Sample identifications were shortened where necessary due to limitations in the software used to generate CLP-type report forms. A table of sample identifications showing full client ID, shortened client ID and laboratory ID follows this narrative.

The analyses were performed according to EPA SW-846 and State of Connecticut protocols and reported in a CLP-format deliverable. Results for extractable total petroleum hydrocarbons, conductivity, pH and chloride are reported in standard Mitkem format with supporting raw data. Per method requirements, QC limits are updated on a regular basis. Therefore, QC limits may have changed from those provided when the project QAPP was written. The current valid QC limits are listed on the applicable data reporting forms.

Samples AOC3BB3 and AOC3BB4 were empty soil sample jars provided as bottle blanks. These were rinsed repeatedly with water to provide sufficient volume for aqueous sample analyses. The rinsings were performed when required for sample preparation.

The following observation and/or deviations are observed for the following analyses:

1. Overall Observation:

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting.
- M2 peak co-elution.
- M3 rising or falling baseline.
- M4 retention time shift.
- M5 miscellaneous – under this category, the justification is explained.

The enclosed report includes the originals of all data with the exception of logbook pages and certain initial calibrations. Photocopies of logbook pages are included, with the originals maintained on file at the laboratory. The originals of initial calibrations that are

shared among several cases are maintained on file at the laboratory, with photocopies included in the data package.

2. Volatile Analysis:

Surrogate recovery: recoveries were within the QC limits with the exception of low recovery of dibromofluoromethane in sample AOC3CTCP7 and AOC3CTCP8. The samples were re-analyzed or re-analyzed at dilution with all surrogate recoveries within the QC limits.

Lab control sample/lab control sample duplicate: spike recoveries were within the QC limits with the exception of high recovery of acrylonitrile in V6ULCS. Replicate RPDs were within the QC limits with the exception of methyl tert-butyl ether in V1KLCS/V1KLCSD

Sample analysis: the cement samples, AOC3CTCP6, AOC3CTCP7 and AOC3CTCP8 were assumed to be 100% solid. Internal standard area counts were within the QC criteria with the exception of samples AOC3CTCP6, AOC3CTCP7 and AOC3CTCP8. The samples were re-analyzed or re-analyzed at dilution with similar findings. For sample AOC3CTCP7, acetone was within the instrument calibration range in the initial analysis, but when the sample was re-analyzed, acetone exceeded the instrument calibration range. Due to high concentration of target analytes, sample AOC3CTCP8 was re-analyzed at dilution with medium level analysis. With the methanol preserved aliquout, there was not enough methanol in the vial. The analyst added 5mL of methanol prior to medium level analysis of sample AOC3CTCP8. No other unusual observation was made for the analyses.

3. Semivolatile Analysis:

Surrogate recovery: recoveries were within the QC limits with the exception of several surrogates in the following samples: AOC3CTCP6, AOC3CTCP7, AOC3CTCP8, AOC3SSTB5312, AOC3SSTB5402, AOC3SSTB4945, AOC3SSD5A45, AOC3SSD5B45 and AOC2TB24. The following samples were re-extracted and analyzed with similar findings: AOC3CTCP6, AOC3CTCP7 and AOC3CTCP8. The following samples were re-extracted and analyzed with all surrogate recoveries within the QC limits: AOC3SSTB5312 and AOC3SSTB5402.

Lab control sample/lab control sample duplicate: spike recoveries were within the QC limits with the exception of several compounds in both the lab control sample and lab control sample duplicate for S2ULCS and high recovery of carbazole in sample S2FLCS. Replicate RPDs were within the QC limits.

Sample analysis: alkanes were determined as tentatively identified compounds. These are reported on the Alkane Narrative Report, which follows this narrative. Please note that bottle blanks AOC3BB3 and AOC3BB4 were prepared (rinsed with water) the day they were extracted; holding times for these two samples are not calculated from date of sample collection or receipt. The cement samples, AOC3CTCP6, AOC3CTCP7 and AOC3CTCP8 were assumed to be 100% solid. Samples AOC3CTCP6, AOC3CTCP7, AOC3CTCP8, AOC3SSTB5312 and AOC3SSTB5402 were re-extracted outside of holding time. The initial analysis was extracted within holding time with non-compliant surrogate recoveries. Due to limited sample volume, samples AOC5WTB62W and AOC7WTB65GW were extracted at reduced volume. The spike amounts and extract final volume were adjusted accordingly to achieve comparable CRQL. Internal standard area counts were within QC criteria with the exception of the following samples: AOC3CTCP6, AOC3CTCP7, AOC3CTCP8, AOC3SSTB5312, AOC3SSTB5402, AOC3SSTB4945, AOC3SSD5A45, AOC3SSD5B45 and AOC2TB24. Samples AOC3CTCP6, AOC3CTCP7 and AOC3CTCP8 were re-extracted and analyzed with similar findings. Samples AOC3SSTB5312 and AOC3SSTB5402 were re-extracted and analyzed with all internal standard within QC criteria. No unusual observation was made for the analyses.

4. Pesticides Analysis:

Surrogate recovery: recoveries were within the QC limits.

Lab control sample/lab control sample duplicate: spike recoveries were within the QC limits. Spike recoveries were within the QC limits with the exception of high recovery of endrin ketone in the lab control sample and high recovery of endosulfan I in both the lab control sample and lab control sample duplicate. Replicate RPDs were within the QC limits with the exception of endrin.

Sample analysis: the cement samples, AOC3CTCP6, AOC3CTCP7 and AOC3CTCP8 were assumed to be 100% solid. No unusual observation was made for the analyses.

5. PCB Analysis (Total and SPLP):

Surrogate recovery: recoveries were within the QC limits with the exception of samples AOC5WTB62W and AOC7WTB65GW, in which the ETPH extracts were exchanged into hexane and analyzed for PCB, therefore containing no PCB surrogates.

Lab control sample/lab control sample duplicate: spike recoveries and replicate RPDs were within the QC limits.

Sample analysis: please note that bottle blanks AOC3BB3 and AOC3BB4 were prepared (rinsed with water) the day they were extracted; holding times for these two samples are

not calculated from date of sample collection or receipt. The cement samples, AOC3CTCP6, AOC3CTCP7 and AOC3CTCP8 were assumed to be 100% solid. Due to insufficient sample volume, samples AOC5WTB62W and AOC7WTB65GW were not extracted for PCB. The ETPH extracts were exchanged into hexane and analyzed for PCB. No unusual observation was made for the analyses.

6. Connecticut Extractable Total Petroleum Hydrocarbons (ETPH):

Surrogate recovery: recoveries were within QC limits of 16% to 127% for soil samples and 20% to 115% for water samples. Please note that relatively low surrogate recoveries are typical for aqueous sample analysis using this method.

Lab control sample/lab control sample duplicate: spike recoveries were within the QC limits of 30% to 109% for soil samples and 27% to 134% for water samples.

Sample analysis: the aqueous samples were inadvertently spiked with internal standard spiking solution for semivolatiles. The average total area from 3 analyses of semivolatile internal standard spiking solution is subtracted from the total area of the samples and associated QC samples. The semivolatile internal standard area runs follows the calibration verifications in the data package. C26 of the LCS co-elutes with the semivolatile internal standard. The concentration of this compound in the method blank run on the corresponding column id subtracted. The normal project quantitation limit is 0.1mg/L for aqueous samples. For the samples mis-spiked with semivolatile internal standard mix, the 0.1mg/L is unreliable. The samples and associated QC were reported to 0.35mg/L. No other unusual observation was made for the analyses.

7. Metals Analysis:

Results for all metals analyses are reported in one section of this report. Data sheets for SPLP metals are identified as such in the Comments line at the bottom of the Form 1.

Lab control sample: spike recoveries were within the QC limits.

Matrix spike: matrix spike was performed on sample AOC2TB24. Spike recoveries were within the QC limits with the exception of antimony and selenium. Form 1's are flagged with an "N" flag for these two elements. Post digest spikes were performed for antimony and selenium. Spike recovery was within QC limits for antimony and low for selenium.

Matrix duplicate: matrix duplicate was performed on sample AOC2TB24. Replicate RPDs were within the QC limits with the exception of barium.

Sample analysis: no other unusual observation was made for the analysis.

8. Wet chemistry Analyses:

The analysis results for conductivity, chloride and pH are included following the blue section divider after the metals section of the data report.

No unusual observation was made for the analyses.

9. Subcontracted Analyses:

The fluoride analysis was performed by sub-contract laboratory RI Analytical Laboratories of Warwick, RI. The RIAL report is submitted following the wet chemistry analyses.

The Total Organic Carbon analysis was performed by sub-contract laboratory Severn Trent Laboratories of Shelton, CT. The entire STL Connecticut data package report is enclosed following the Mitkem data package. Please note that the STL report is paginated separately from the Mitkem report.

The formaldehyde analysis was performed by sub-contract laboratory STL Tallahassee of Tallahassee, FL. The entire STL Tallahassee data package report is enclosed following the Mitkem data package. Please note that the STL report is paginated separately from the Mitkem report.

The pages in this report have been numbered consecutively, starting from this narrative and ending with a page saying only "Last Page of Data Report".

I certify that this data package is in compliance, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Agnes Ng
CLP Project Manager
01/30/03

ALKANE NARRATIVE REPORT
Report date : 01/29/2003
SDG: A1905

Client Sample ID: SBLK2E Lab Sample ID: MB-4910 File ID: S2D0818

Compound	RT	Est. Conc.	Q
Straight-chain Alkane	9.89	4	J

Client Sample ID: AOC3CTCP6 Lab Sample ID: A1905-01D File ID: S2D0950

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	8.10	670	J
Straight-Chain Alkane	9.52	1100	J
Straight-Chain Alkane	16.32	810	J
Straight-Chain Alkane	17.25	820	J
Straight-Chain Alkane	18.12	1000	J
Straight-Chain Alkane	18.96	1200	J
Straight-Chain Alkane	19.77	1000	J
Straight-Chain Alkane	20.54	1400	J
Straight-Chain Alkane	21.27	1000	J
Branched Alkane	21.52	870	J
Straight-Chain Alkane	21.98	1200	J
Branched Alkane	22.21	840	J
Straight-Chain Alkane	22.66	1800	J
Branched Alkane	23.52	1400	J
Branched Alkane	24.15	2400	J
Branched Alkane	24.77	1400	J

Client Sample ID: AOC3CTCP7 Lab Sample ID: A1905-02D File ID: S2D0951

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	8.09	960	J
Branched Alkane	9.12	510	J
Straight-Chain Alkane	9.52	1500	J
Branched Alkane	9.74	330	J
Branched Alkane	10.11	450	J
Branched Alkane	16.35	590	J
Straight-Chain Alkane	17.25	600	J
Branched Alkane	17.30	820	J
Straight-Chain Alkane	18.12	590	J
Straight-Chain Alkane	18.96	790	J
Straight-Chain Alkane	19.77	620	J
Straight-Chain Alkane	20.54	1300	J
Straight-Chain Alkane	24.15	2800	J

Client Sample ID: AOC3CTCP8 Lab Sample ID: A1905-03D File ID: S2D0952

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	16.32	1500	J
Straight-Chain Alkane	17.25	1200	J
Straight-Chain Alkane	17.30	800	J
Straight-Chain Alkane	18.12	1600	J
Straight-Chain Alkane	18.97	2100	J
Straight-Chain Alkane	19.78	1800	J
Straight-Chain Alkane	20.54	1900	J
Straight-Chain Alkane	21.28	1200	J
Branched Alkane	21.81	950	J

6 6

Straight-Chain Alkane	21.99	1200	J
Branched Alkane	24.16	3200	J

Client Sample ID: AOC3CTCP6RE Lab Sample ID: A1905-01DRE File ID: S2D1

Compound	RT	Est. Conc.	Q
Straight-chain Alkane	7.47	670	J
Straight-chain Alkane	8.89	1600	J
Straight-chain Alkane	10.20	1000	J
Straight-chain Alkane	15.65	2200	J
Straight-chain Alkane	16.57	1900	J
Straight-chain Alkane	17.45	2300	J
Straight-chain Alkane	18.29	2000	J
Branched Alkane	18.87	790	J
Straight-chain Alkane	19.09	2100	J
Straight-chain Alkane	19.86	2200	J
Straight-chain Alkane	20.59	1500	J
Straight-chain Alkane	20.84	1200	J
Branched Alkane	23.45	4400	J

Client Sample ID: AOC3CTCP7RE Lab Sample ID: A1905-02DRE File ID: S2D1

Compound	RT	Est. Conc.	Q
Straight-chain Alkane	7.46	510	J
Straight-chain Alkane	8.88	1300	J
Straight-chain Alkane	10.19	580	J
Straight-chain Alkane	14.67	340	J
Straight-chain Alkane	15.64	1600	J
Straight-chain Alkane	16.56	830	J
Branched Alkane	16.62	1700	J
Straight-chain Alkane	17.44	530	J
Straight-chain Alkane	18.27	640	J
Branched Alkane	18.86	560	J
Straight-chain Alkane	19.07	740	J
Straight-chain Alkane	19.85	770	J

Client Sample ID: AOC3CTCP8RE Lab Sample ID: A1905-03DRE File ID: S2D1

Compound	RT	Est. Conc.	Q
Straight-chain Alkane	14.67	430	J
Straight-chain Alkane	15.64	2000	J
Straight-chain Alkane	16.57	1800	J
Branched Alkane	16.62	1400	J
Straight-chain Alkane	17.44	2000	J
Straight-chain Alkane	18.29	2100	J
Branched Alkane	18.86	1000	J
Straight-chain Alkane	19.09	2400	J
Straight-chain Alkane	19.85	2300	J
Straight-chain Alkane	20.33	690	J
Straight-chain Alkane	20.60	2100	J
Straight-chain Alkane	23.48	5900	J

7 7

Mitkem Corporation *31/Dec/02 12:27* **WorkOrder: A1905**

Client ID: HRP Case: Report Level: LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA-T SDG: EDD: XL
Location: HOW0016.RA PO: HC Due: 01/13/03
Comments: Data summary and CD-ROM of full package to HRP. Full paper package and EDD to Glenn Esler @ Env. Sids. Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Istd	MS	SEL Storage
A1905-01A	AOC3CTCP6	12/17/02 11:15	12/23/02	Cement	SW8260B_LOW_S		☐	☐	☐ VOA
A1905-01B	AOC3CTCP6	12/17/02 11:15	12/23/02	Cement	SW8260B_MED_S		☑	☐	☐ VOA
A1905-01C	AOC3CTCP6	12/17/02 11:15	12/23/02	Cement	SW8315A_S		☐	☐	☐ SUB
A1905-01D	AOC3CTCP6	12/17/02 11:15	12/23/02	Cement	SW6010B_S		☐	☐	☑ B2
					SW6010B_W	SPLP	☐	☐	☑ B2
					SW7470A	SPLP	☐	☐	B2
					SW7471A		☐	☐	B2
					SW8081A_S		☐	☐	B2
					SW8270C_S		☐	☐	B2
A1905-02A	AOC3CTCP7	12/17/02 11:30	12/23/02	Cement	SW8260B_LOW_S		☐	☐	☐ VOA
A1905-02B	AOC3CTCP7	12/17/02 11:30	12/23/02	Cement	SW8260B_MED_S		☑	☐	☐ VOA
A1905-02C	AOC3CTCP7	12/17/02 11:30	12/23/02	Cement	SW8315A_S		☐	☐	☐ SUB

Client Rep: Agnes R Ng

8 8

Mitkem Corporation *31/Dec/02 12:27* **WorkOrder: A1905**

Client ID: HRP Case: Report Level: LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA-T SDG: EDD: XL
Location: HOW0016.RA PO: HC Due: 01/13/03
Comments: Data summary and CD-ROM of full package to HRP. Full paper package and EDD to Glenn Esler @ Env. Sids. Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Istd	MS	SEL Storage
A1905-02D	AOC3CTCP7	12/17/02 11:30	12/23/02	Cement	SW6010B_S		☐	☐	☑ B2
					SW6010B_W	SPLP	☐	☐	☑ B2
					SW7470A	SPLP	☐	☐	B2
					SW7471A		☐	☐	B2
					SW8081A_S		☐	☐	B2
					SW8270C_S		☐	☐	B2
A1905-03A	AOC3CTCP8	12/17/02 12:05	12/23/02	Cement	SW8260B_LOW_S		☐	☐	☐ VOA
A1905-03B	AOC3CTCP8	12/17/02 12:05	12/23/02	Cement	SW8260B_MED_S		☑	☐	☐ VOA
A1905-03C	AOC3CTCP8	12/17/02 12:05	12/23/02	Cement	SW8315A_S		☐	☐	☐ SUB
A1905-03D	AOC3CTCP8	12/17/02 12:05	12/23/02	Cement	SW6010B_S		☐	☐	☑ B2
					SW6010B_W	SPLP	☐	☐	☑ B2
					SW7470A	SPLP	☐	☐	B2
					SW7471A		☐	☐	B2
					SW8081A_S		☐	☐	B2
					SW8270C_S		☐	☐	B2

Client Rep: Agnes R Ng

9 9

Mitkem Corporation — 31/Dec/02 12:27 — WorkOrder: A1905

Client ID: HRP | Case: | Report Level: LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T | SDG: | EDD: XL
Location: HOW0016.RA | PO: HOW0016.RA | HC Due: 01/13/03
Comments: Data summary and CD-ROM of full package to HRP. Full paper package and EDD to Glenn Esler @ Env. Stds. | Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1905-08A	AOC3BB4	12/16/02 12:05	12/23/02	Water Qualit	SW7470A	TAL	☐	☐	☐	B1
					SW8082_W		☐	☐	☐	B1
					SW8270C_W		☐	☐	☐	B1
A1905-09A	AOC3T2	12/16/02 12:10	12/23/02	Water Qualit	SW8260B_W		☐	☐	☐	VOA
A1905-10A	AOC3E5	12/16/02 12:15	12/23/02	Water Qualit	SW6010B_W	TAL	☐	☐	☑	M2
					SW7470A	TAL	☐	☐	☐	M2
A1905-11A	AOC3SSD5A45	12/16/02 13:15	12/23/02	Soil	PMoist		☐	☐	☐	B2
					SW8270C_S		☐	☐	☐	B2
A1905-11B	AOC3SSD5A45	12/16/02 13:15	12/23/02	Soil	SW8315A_S		☐	☐	☐	SUB
A1905-12A	AOC3SSD5B45	12/16/02 13:20	12/23/02	Soil	PMoist		☐	☐	☐	B2
					SW8270C_S		☐	☐	☐	B2
A1905-12B	AOC3SSD5B45	12/16/02 13:20	12/23/02	Soil	SW8315A_S		☐	☐	☐	SUB

Client Rep: Agnes R Ng — Page 5 of 13

12

Mitkem Corporation — 31/Dec/02 12:27 — WorkOrder: A1905

Client ID: HRP | Case: | Report Level: LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T | SDG: | EDD: XL
Location: HOW0016.RA | PO: HOW0016.RA | HC Due: 01/13/03
Comments: Data summary and CD-ROM of full package to HRP. Full paper package and EDD to Glenn Esler @ Env. Stds. | Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1905-04A	AOC3SSTB4902	12/16/02 13:05	12/23/02	Soil	PMoist		☐	☐	☐	VOA
					SW8260B_LOW_S		☐	☐	☐	VOA
A1905-04B	AOC3SSTB4902	12/16/02 13:05	12/23/02	Soil	SW8260B_MED_S		☑	☐	☐	VOA
A1905-04C	AOC3SSTB4902	12/16/02 13:05	12/23/02	Soil	SW8081A_S		☐	☐	☐	B2
A1905-05A	AOC3SSTB5312	12/16/02 14:35	12/23/02	Soil	PMoist		☐	☐	☐	VOA
					SW8260B_LOW_S		☐	☐	☐	VOA
A1905-05B	AOC3SSTB5312	12/16/02 14:35	12/23/02	Soil	SW8260B_MED_S		☑	☐	☐	VOA
A1905-05C	AOC3SSTB5312	12/16/02 14:35	12/23/02	Soil	SW8081A_S		☐	☐	☐	B2
					SW8270C_S		☐	☐	☐	B2
A1905-05D	AOC3SSTB5312	12/16/02 14:35	12/23/02	Soil	SW8315A_S		☐	☐	☐	SUB
A1905-06A	AOC3SSTB5402	12/16/02 15:05	12/23/02	Soil	PMoist		☐	☐	☐	VOA

Client Rep: Agnes R Ng — Page 3 of 13

10

Mitkem Corporation — 31/Dec/02 12:27 — WorkOrder: A1905

Client ID: HRP | Case: | Report Level: LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T | SDG: | EDD: XL
Location: HOW0016.RA | PO: HOW0016.RA | HC Due: 01/13/03
Comments: Data summary and CD-ROM of full package to HRP. Full paper package and EDD to Glenn Esler @ Env. Stds. | Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1905-13A	AOC3SSTB4945	12/16/02 13:10	12/23/02	Soil	PMoist		☐	☐	☐	B2
					SW8270C_S		☐	☐	☐	B2
A1905-13B	AOC3SSTB4945	12/16/02 13:10	12/23/02	Soil	SW8315A_S		☐	☐	☐	SUB
A1905-14A	AOC5E7	12/19/02 12:50	12/23/02	Water Qualit	SW8260B_W		☐	☐	☐	VOA
A1905-14B	AOC5E7	12/19/02 12:50	12/23/02	Water Qualit	SW6010B_W	TAL	☐	☐	☑	M2
					SW7470A	TAL	☐	☐	☐	M2
A1905-14C	AOC5E7	12/19/02 12:50	12/23/02	Water Qualit	CTETPH_W		☐	☐	☐	B1
A1905-14D	AOC5E7	12/19/02 12:50	12/23/02	Water Qualit	SW8082_W		☐	☐	☐	B1
					SW8270C_W		☐	☐	☐	B1
A1905-15A	AOC5SSTB6267	12/19/02 9:50	12/23/02	Soil	PMoist		☐	☐	☐	VOA
					SW8260B_LOW_S		☐	☐	☐	VOA
A1905-15B	AOC5SSTB6267	12/19/02 9:50	12/23/02	Soil	SW8260B_MED_S		☑	☐	☐	VOA

Client Rep: Agnes R Ng — Page 6 of 13

13

Mitkem Corporation — 31/Dec/02 12:27 — WorkOrder: A1905

Client ID: HRP | Case: | Report Level: LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T | SDG: | EDD: XL
Location: HOW0016.RA | PO: HOW0016.RA | HC Due: 01/13/03
Comments: Data summary and CD-ROM of full package to HRP. Full paper package and EDD to Glenn Esler @ Env. Stds. | Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1905-06A	AOC3SSTB5402	12/16/02 15:05	12/23/02	Soil	SW8260B_LOW_S		☐	☐	☐	VOA
A1905-06B	AOC3SSTB5402	12/16/02 15:05	12/23/02	Soil	SW8260B_MED_S		☑	☐	☐	VOA
A1905-06C	AOC3SSTB5402	12/16/02 15:05	12/23/02	Soil	SW6010B_S	TAL	☐	☐	☑	B2
					SW7471A	TAL	☐	☐	☐	B2
					SW8081A_S		☐	☐	☐	B2
					SW8082_S		☐	☐	☐	B2
					SW8270C_S		☐	☐	☐	B2
A1905-06D	AOC3SSTB5402	12/16/02 15:05	12/23/02	Soil	E415_LK_TOC_S		☐	☐	☐	SUB
					SW8315A_S		☐	☐	☐	SUB
A1905-07A	AOC3BB3	12/16/02 12:00	12/23/02	Water Qualit	SW6010B_W	TAL	☐	☐	☑	B1
					SW7470A	TAL	☐	☐	☐	B1
					SW8082_W		☐	☐	☐	B1
					SW8270C_W		☐	☐	☐	B1
A1905-08A	AOC3BB4	12/16/02 12:05	12/23/02	Water Qualit	SW6010B_W	TAL	☐	☐	☑	B1

Client Rep: Agnes R Ng — Page 4 of 13

11

Mitkem Corporation — 31/Dec/02 12:27 — WorkOrder: A1905

Client ID: HRP | Case: | Report Level: LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T | SDG: | EDD: XL
Location: HOW0016.RA | PO: HOW0016.RA | HC Due: 01/13/03
Comments: Data summary and CD-ROM of full package to HRP. Full paper package and EDD to Glenn Esler @ Env. Stds. | Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1905-18E	AOC7WTB65GW	12/19/02 11:20	12/23/02	Water	SW8082_W		☐	☐	☐	B1
					SW8270C_W		☐	☐	☐	B1
A1905-18F	AOC7WTB65GW	12/19/02 11:20	12/23/02	Water	COND_W		☐	☐	☐	B1
					FLUORIDE_W		☐	☐	☐	B1
					SM4500_Cl-_W		☐	☐	☐	B1
					SM4500_H+		☐	☐	☐	B1
A1905-19A	AOC5ASSTB6956	12/19/02 13:00	12/23/02	Soil	PMoist		☐	☐	☐	B2
					SW8082_S		☐	☐	☐	B2
					SW8082_W	SPLP	☐	☐	☐	B2
A1905-20A	AOC5ASSD7A56	12/19/02 13:05	12/23/02	Soil	PMoist		☐	☐	☐	B2
					SW8082_S		☐	☐	☐	B2
					SW8082_W	SPLP	☐	☐	☐	B2
A1905-21A	AOC5ASSD7B56	12/19/02 13:07	12/23/02	Soil	PMoist		☐	☐	☐	B2
					SW8082_S		☐	☐	☐	B2
					SW8082_W	SPLP	☐	☐	☐	B2

Client Rep: Agnes R Ng — Page 9 of 13

16

Mitkem Corporation — 31/Dec/02 12:27 — WorkOrder: A1905

Client ID: HRP | Case: | Report Level: LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T | SDG: | EDD: XL
Location: HOW0016.RA | PO: HOW0016.RA | HC Due: 01/13/03
Comments: Data summary and CD-ROM of full package to HRP. Full paper package and EDD to Glenn Esler @ Env. Stds. | Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1905-15C	AOC5SSTB6267	12/19/02 9:50	12/23/02	Soil	E415_LK_TOC_S		☐	☐	☐	B2
					SW6010B_S	TAL	☐	☐	☑	B2
					SW7471A	TAL	☐	☐	☐	B2
A1905-16A	AOC5WTB62W	12/19/02 10:00	12/23/02	Water	SW8260B_W		☐	☐	☐	VOA
A1905-16B	AOC5WTB62W	12/19/02 10:00	12/23/02	Water	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M2
A1905-16C	AOC5WTB62W	12/19/02 10:00	12/23/02	Water	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M2
A1905-16D	AOC5WTB62W	12/19/02 10:00	12/23/02	Water	CTETPH_W		☐	☐	☐	B1
A1905-16E	AOC5WTB62W	12/19/02 10:00	12/23/02	Water	SW8082_W		☐	☐	☐	B1
					SW8270C_W		☐	☐	☐	B1
A1905-16F	AOC5WTB62W	12/19/02 10:00	12/23/02	Water	COND_W		☐	☐	☐	B1

Client Rep: Agnes R Ng — Page 7 of 13

14

Mitkem Corporation — 31/Dec/02 12:27 — WorkOrder: A1905

Client ID: HRP | Case: | Report Level: LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T | SDG: | EDD: XL
Location: HOW0016.RA | PO: HOW0016.RA | HC Due: 01/13/03
Comments: Data summary and CD-ROM of full package to HRP. Full paper package and EDD to Glenn Esler @ Env. Stds. | Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1905-22A	AOC6SSTB7167	12/19/02 14:00	12/23/02	Soil	PMoist		☐	☐	☐	VOA
					SW8260B_LOW_S		☐	☐	☐	VOA
A1905-22B	AOC6SSTB7167	12/19/02 14:00	12/23/02	Soil	SW8260B_MED_S		☑	☐	☐	VOA
A1905-22C	AOC6SSTB7167	12/19/02 14:00	12/23/02	Soil	E415_LK_TOC_S		☐	☐	☐	B2
					SW6010B_S		☐	☐	☑	B2
A1905-23A	AOC5ASSTB7002	12/19/02 13:20	12/23/02	Soil	PMoist		☐	☐	☐	VOA
					SW8260B_LOW_S		☐	☐	☐	VOA
A1905-23B	AOC5ASSTB7002	12/19/02 13:20	12/23/02	Soil	SW8260B_MED_S		☑	☐	☐	VOA
A1905-23C	AOC5ASSTB7002	12/19/02 13:20	12/23/02	Soil	SW8082_S		☐	☐	☐	B2
					SW8082_W	SPLP	☐	☐	☐	B2
A1905-24A	AOC5ASSTB6978	12/19/02 13:15	12/23/02	Soil	PMoist		☐	☐	☐	VOA
					SW8260B_LOW_S		☐	☐	☐	VOA

Client Rep: Agnes R Ng — Page 10 of 13

17

Mitkem Corporation — 31/Dec/02 12:27 — WorkOrder: A1905

Client ID: HRP | Case: | Report Level: LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T | SDG: | EDD: XL
Location: HOW0016.RA | PO: HOW0016.RA | HC Due: 01/13/03
Comments: Data summary and CD-ROM of full package to HRP. Full paper package and EDD to Glenn Esler @ Env. Stds. | Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1905-16F	AOC5WTB62W	12/19/02 10:00	12/23/02	Water	FLUORIDE_W		☐	☐	☐	B1
					SM4500_Cl-_W		☐	☐	☐	B1
					SM4500_H+		☐	☐	☐	B1
A1905-17A	AOC7SSTB6578	12/19/02 11:15	12/23/02	Soil	PMoist		☐	☐	☐	VOA
					SW8260B_LOW_S		☐	☐	☐	VOA
A1905-17B	AOC7SSTB6578	12/19/02 11:15	12/23/02	Soil	SW8260B_MED_S		☑	☐	☐	VOA
A1905-18A	AOC7WTB65GW	12/19/02 11:20	12/23/02	Water	SW8260B_W		☐	☐	☐	VOA
A1905-18B	AOC7WTB65GW	12/19/02 11:20	12/23/02	Water	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M2
A1905-18C	AOC7WTB65GW	12/19/02 11:20	12/23/02	Water	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B	☐	☐	☐	M2
A1905-18D	AOC7WTB65GW	12/19/02 11:20	12/23/02	Water	CTETPH_W		☐	☐	☐	B1

Client Rep: Agnes R Ng — Page 8 of 13

15

Client ID: HRP **Case:** **Report Level:** LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T **SDG:** **EDD:** XL
Location: HOW0016.RA **PO:** HOW0016.RA **HC Due:** 01/13/03
Comments: Data summary and CD-ROM of full package to HRP. Full paper package and EDD to Glenn Esler @ Env. Stds. **Fax Due:**

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1905-30A	AOC2TB57675	12/18/02 12:10	12/23/02	Soil	PMoist		☐	☐	☐	B2

Client ID: HRP **Case:** **Report Level:** LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T **SDG:** **EDD:** XL
Location: HOW0016.RA **PO:** HOW0016.RA **HC Due:** 01/13/03
Comments: Data summary and CD-ROM of full package to HRP. Full paper package and EDD to Glenn Esler @ Env. Stds. **Fax Due:**

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1905-24B	AOC5ASSTB6978	12/19/02 13:15	12/23/02	Soil	SW8260B_MED_S		☑	☐	☐	VOA
A1905-25A	AOC5ASSTB68015	12/19/02 12:20	12/23/02	Soil	PMoist		☐	☐	☐	VOA
					SW8260B_LOW_S		☐	☐	☐	VOA
A1905-25B	AOC5ASSTB68015	12/19/02 12:20	12/23/02	Soil	SW8260B_MED_S		☑	☐	☐	VOA
A1905-25C	AOC5ASSTB68015	12/19/02 12:20	12/23/02	Soil	E415_LK_TOC_S		☐	☐	☐	B2
					SW6010B_S		☐	☐	☑	B2
					SW8082_S		☐	☐	☐	B2
					SW8082_W	SPLP	☐	☐	☐	B2
A1905-26A	AOC2E6	12/18/02 9:15	12/23/02	Water Qualit	SW6010B_W	TAL	☐	☐	☑	M2
					SW7470A	TAL	☐	☐	☐	M2
A1905-26B	AOC2E6	12/18/02 9:15	12/23/02	Water Qualit	CTETPH_W		☐	☐	☐	B1
A1905-26C	AOC2E6	12/18/02 9:15	12/23/02	Water Qualit	SW8082_W		☐	☐	☐	B1

Analysis Report Extractable Total Petroleum Hydrocarbons

MITKEM CORPORATION

Client: HRP Associates
Analysis: CT-ETPH: 3/99
Matrix: Aqueous

Concentration in: mg/L
Date Extracted: 12/26/02

Lab ID	Client ID	Result	Reporting Limit	p-Terphenyl Surrogate %-Recovery	Analysis Date
QA/QC					
Method Blank					
MB-4924		ND	0.35	95	12/31/02
Lab Control Sample (% Recovery)					
LCS-4924		80		87	12/31/02
LCSD-4924		77		97	12/31/02
A1905-14C	AOC5E7	ND	0.35	71	12/31/02
A1905-16D	AOC5WTB62W	ND	0.35	80	12/31/02
A1905-18D	AOC7WTB65GW	0.45	0.35	69	12/31/02

ND = Not Detected

Client ID: HRP **Case:** **Report Level:** LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T **SDG:** **EDD:** XL
Location: HOW0016.RA **PO:** HOW0016.RA **HC Due:** 01/13/03
Comments: Data summary and CD-ROM of full package to HRP. Full paper package and EDD to Glenn Esler @ Env. Stds. **Fax Due:**

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1905-26C	AOC2E6	12/18/02 9:15	12/23/02	Water Qualit	SW8270C_W		☐	☐	☐	B1
A1905-27A	AOC2TB5512	12/18/02 10:45	12/23/02	Soil	PMoist		☐	☐	☐	VOA
					SW8260B_LOW_S		☐	☐	☐	VOA
A1905-27B	AOC2TB5512	12/18/02 10:45	12/23/02	Soil	SW8260B_MED_S		☑	☐	☐	VOA
A1905-28A	AOC2TB24	12/18/02 11:25	12/23/02	Soil	CTETPH_S		☐	☐	☐	B2
					E415_LK_TOC_S		☐	☐	☐	B2
					PMoist		☐	☐	☐	B2
					SW6010B_S	TAL	☐	☐	☑	B2
					SW7471A	TAL	☐	☐	☐	B2
					SW8082_S		☐	☐	☐	B2
					SW8270C_S		☐	☐	☐	B2
A1905-29A	AOC2TB5802	12/18/02 12:15	12/23/02	Soil	CTETPH_S		☐	☐	☐	B2
					PMoist		☐	☐	☐	B2
A1905-30A	AOC2TB57675	12/18/02 12:10	12/23/02	Soil	CTETPH_S		☐	☐	☐	B2

MITKEM CORPORATION

Analysis Report: Extractable Total Petroleum Hydrocarbons

Client: HRP Associates
Analysis: CT-ETPH, 3/99
Matrix: Aqueous

Concentration in: mg/L
Date Extracted: 12/24/02

Lab ID	Client ID	Result	Reporting Limit	p-Terphenyl Surrogate % Recovery	Analysis Date
A1905-26B	AOC2B6	ND	0.35	92	12/31/02
QA/QC					
Method Blank					
MB-4912		ND	0.35	88	12/31/02
Lab Control Sample (% Recovery)					
LCS-4912		84		91	12/31/02
LCSD-4912		78		100	12/31/02

ND = Not Detected

MITKEM CORPORATION

Analysis Report: Extractable Total Petroleum Hydrocarbons

Client: HRP Associates
Analysis: CT-ETPH, 3/99
Matrix: Soil

Concentration in: mg/kg, dry weight basis
Date Extracted: 12/31/02

Lab ID	Client ID	Result	Reporting Limit	% Solid	p-Terphenyl Surrogate Recovery %	Analysis Date
A1905-28A	AOC2TB24	ND	13	91	89	1/2/03
A1905-29A	AOC2TB5802	ND	12	95	78	1/2/03
A1905-30A	AOC2TB57675	ND	13	89	68	1/2/03
QA/QC						
Method Blank						
MB-4963		ND	12		97	1/2/03
Lab Control Sample (% Recovery)						
LCS-4963		82			104	1/2/03
LCSD-4963		84			96	1/2/03

Mitkem Corporation

Date: *30-Jan-03*

CLIENT: HRP Associates
Client Sample ID: AOCSWTB62W
Lab ID: A1905-16

Project: Former Howe Furniture Facility HOW-00
Collection Date: 12/19/02 10:00

Analytes	Result	Qual	RL	Units	DF	Date Analyzed
CONDUCTANCE		COND_W				
Specific Conductance	4000		10	µmhos/cm	1	12/30/02 0:00
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	800		100	mg/L	20	12/30/02 11:00
PH VALUE		SM4500_H+				
pH	6.7		1.0	pH Units	1	12/29/02 11:45

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Mitkem Corporation

Date: *30-Jan-03*

CLIENT: HRP Associates
Client Sample ID: AOC7WTB65GW
Lab ID: A1905-18

Project: Former Howe Furniture Facility HOW-00
Collection Date: 12/19/02 11:20

Analytes	Result	Qual	RL	Units	DF	Date Analyzed
CONDUCTANCE		COND_W				
Specific Conductance	4000		10	µmhos/cm	1	12/30/02 0:00
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	730		100	mg/L	20	12/30/02 11:00
PH VALUE		SM4500_H+				
pH	6.6		1.0	pH Units	1	12/29/02 11:45

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: HRP Associates
Work Order: A1905
Project: Former Howe Furniture Facility HOW-0016.R

ANALYTICAL QC SUMMARY REPORT

TestCode: SM4500_H+

Sample ID	A1905-18FDUP	SampType	DUP	TestCode:	SM4500_H+			Prep Date:	12/26/02			Run ID:	PH METER_021226A	
Client ID:	AOC5WTB62W	Batch ID:	R1603	Units:	pH Units			Analysis Date:	12/26/02			SeqNo:	54090	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH		6.99	1.0	0	0	0	0	0	6.89	0	20	

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

Mitkem Corporation

Date: 30-Jan-03

CLIENT: HRP Associates
Work Order: A1905
Project: Former Howe Furniture Facility HOW-0016.R

ANALYTICAL QC SUMMARY REPORT

TestCode: COND_W

Sample ID	MBLK	SampType	MBLK	TestCode:	COND_W			Prep Date:	12/30/02			Run ID:	MANUAL_021230B	
Client ID:	MBLK	Batch ID:	R1579	Units:	µmhos/cm			Analysis Date:	12/30/02			SeqNo:	52904	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance		ND	10									

Sample ID	LCS	SampType	LCS	TestCode:	COND_W			Prep Date:	12/30/02			Run ID:	MANUAL_021230B	
Client ID	LCS	Batch ID:	R1579	Units:	µmhos/cm			Analysis Date:	12/30/02			SeqNo:	52905	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance		106.1	10	100.0	0	106	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

Client: HRP Associates
Matrix: Aqueous

Analysis Report: Fluoride

Analysis Method: EPA 340.1
Units In: mg/L
Analysis Date: 1/2/03

Lab ID	Client ID	Result
A1905-16F	AOC5WTB62W	0.82
A1905-16F	AOC7WTB65GW	1.3

Reporting Limit: 0.05

Subcontracted-RIAL
A1905

CLIENT: HRP Associates
Work Order: A1905
Project: Former Howe Furniture Facility HOW-0016.R

ANALYTICAL QC SUMMARY REPORT

TestCode: SM4500_CL_W

Sample ID	MB-4962	SampType:	MBLK	TestCode	SM4500_CL_W			Prep Date:	12/30/02			Run ID:	MANUAL_021230C	
Client ID:	MB-4962	Batch ID:	4962	Units	mg/L			Analysis Date	12/30/02			SeqNo:	52908	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride		ND	5.0									

Sample ID	LCS-4962	SampType:	LCS	TestCode:	SM4500_CL_W			Prep Date:	12/30/02			Run ID:	MANUAL_021230C	
Client ID	LCS-4962	Batch ID:	4962	Units:	mg/L			Analysis Date	12/30/02			SeqNo:	52909	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride		66	10	58.5	0	113	80	120	0	0		

Sample ID	A1905-18FMS	SampType	MS	TestCode:	SM4500_CL_W			Prep Date:	12/30/02			Run ID	MANUAL_021230C	
Client ID	AOC7WTB65GW	Batch ID:	4962	Units:	mg/L			Analysis Date:	12/30/02			SeqNo:	52913	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride		1150	100	500	730	85	75	125	0	0		

Sample ID	A1905-18FDUP	SampType:	DUP	TestCode:	SM4500_CL_W			Prep Date:	12/30/02			Run ID:	MANUAL_021230C	
Client ID:	AOC7WTB65GW	Batch ID:	4962	Units:	mg/L			Analysis Date:	12/30/02			SeqNo:	52912	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride		700	100	0	0	0	0	0	730	4.20	20	

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2TB5512

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-27A
Sample wt/vol: 11.8 (g/mL) G Lab File ID: V1F1892
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 8 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	24	
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	2	U
1634-04-4	Methyl tert-butyl ether	2	U
75-34-3	1,1-Dichloroethane	2	U
78-93-3	2-Butanone	2	J
156-59-2	cis-1,2-Dichloroethene	2	U
590-20-7	2,2-Dichloropropane	2	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
109-99-9	Tetrahydrofuran	2	U
71-55-6	1,1,1-Trichloroethane	2	U
563-58-6	1,1-Dichloropropene	2	U
56-23-5	Carbon Tetrachloride	2	U
107-06-2	1,2-Dichloroethane	2	U
71-43-2	Benzene	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-pentanone	2	U
108-88-3	Toluene	2	J
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
127-18-4	Tetrachloroethene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2TB5512

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-27A
Sample wt/vol: 11.8 (g/mL) G Lab File ID: V1F1892
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 8 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	2	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	0.6	J
----------	m,p-Xylene	2	J
95-47-6	o-Xylene	1	J
1330-20-7	Xylene (Total)	3	
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
106-43-4	4-Chlorotoluene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
99-87-6	4-Isopropyltoluene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
87-68-3	Hexachlorobutadiene	2	U
91-20-3	Naphthalene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U
544-10-5	1-Chlorohexane	2	U
107-13-1	Acrylonitrile	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC2TB5512

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-27A
Sample wt/vol: 11.8 (g/mL) G Lab File ID: V1F1892
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 8 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN		2.53	16	J
2.	UNKNOWN		12.91	5	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP6

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-01A
Sample wt/vol: 11.7 (g/mL) G Lab File ID: V1F1879
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 0 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	32	
75-09-2	Methylene Chloride	1	BJ
156-60-5	trans-1,2-Dichloroethene	2	U
1634-04-4	Methyl tert-butyl ether	2	U
75-34-3	1,1-Dichloroethane	2	U
78-93-3	2-Butanone	6	
156-59-2	cis-1,2-Dichloroethene	2	U
590-20-7	2,2-Dichloropropane	2	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
109-99-9	Tetrahydrofuran	2	U
71-55-6	1,1,1-Trichloroethane	2	U
563-58-6	1,1-Dichloropropene	2	U
56-23-5	Carbon Tetrachloride	2	U
107-06-2	1,2-Dichloroethane	2	U
71-43-2	Benzene	0.6	J
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-pentanone	6	
108-88-3	Toluene	1	J
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
127-18-4	Tetrachloroethene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP6

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-01A
Sample wt/vol: 11.7 (g/mL) G Lab File ID: V1F1879
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 0 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	2	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	0.8	J
	m,p-Xylene	2	J
95-47-6	o-Xylene	1	J
1330-20-7	Xylene (Total)	3	
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	6	
106-43-4	4-Chlorotoluene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	25	
135-98-8	sec-Butylbenzene	2	U
99-87-6	4-Isopropyltoluene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	J
95-50-1	1,2-Dichlorobenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	1	J
87-68-3	Hexachlorobutadiene	2	U
91-20-3	Naphthalene	4	
87-61-6	1,2,3-Trichlorobenzene	2	J
544-10-5	1-Chlorohexane	2	U
107-13-1	Acrylonitrile	2	U

FORM I VOA OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3CTCP6

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-01A
Sample wt/vol: 11.7 (g/mL) G Lab File ID: V1F1879
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 0 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	115-11-7	1-PROPENE, 2-METHYL-	1.76	7	NJ
2.		UNKNOWN	1.95	4	J
3.		UNKNOWN	4.55	11	J
4.		UNKNOWN	6.34	6	J
5.		UNKNOWN	6.70	4	J
6.	66-25-1	HEXANAL	8.85	9	NJ
7.		UNKNOWN	10.73	4	J
8.		UNKNOWN	11.36	6	J
9.		UNKNOWN	11.56	10	J
10.	620-14-4	BENZENE, 1-ETHYL-3-METHYL-	11.64	9	NJ
11.		STRAIGHT-CHAIN ALKANE	11.80	29	J
12.		UNKNOWN	11.99	6	J
13.		BRANCHED ALKANE	12.16	8	J
14.		UNKNOWN	12.34	6	J
15.		UNKNOWN	12.49	7	J
16.	526-73-8	BENZENE, 1,2,3-TRIMETHYL-	12.69	11	NJ
17.		UNKNOWN	12.75	7	J
18.		UNKNOWN	12.91	92	J
19.		UNKNOWN	13.02	6	J
20.		STRAIGHT-CHAIN ALKANE	13.21	41	J
21.	527-84-4	BENZENE, 1-METHYL-2-(1-METHY	13.39	11	NJ
22.		UNKNOWN	13.45	14	J
23.		UNKNOWN	13.60	6	J
24.	2958-76-1	NAPHTHALENE, DECAHYDRO-2-MET	13.75	9	NJ
25.		UNKNOWN	13.87	10	J
26.		UNKNOWN	13.91	13	J
27.		UNKNOWN	13.98	12	J
28.		UNKNOWN	14.11	6	J
29.		UNKNOWN	14.43	20	J
30.		UNKNOWN	14.60	8	J

FORM I VOA-TIC OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP6RE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-01ARE
Sample wt/vol: 18.7 (g/mL) G Lab File ID: V1F1891
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 0 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	20	
75-09-2	Methylene Chloride	3	B
156-60-5	trans-1,2-Dichloroethene	1	U
1634-04-4	Methyl tert-butyl ether	1	U
75-34-3	1,1-Dichloroethane	1	U
78-93-3	2-Butanone	6	
156-59-2	cis-1,2-Dichloroethene	1	U
590-20-7	2,2-Dichloropropane	1	U
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	1	U
109-99-9	Tetrahydrofuran	1	U
71-55-6	1,1,1-Trichloroethane	1	U
563-58-6	1,1-Dichloropropene	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	0.5	J
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	2	
108-88-3	Toluene	1	J
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
142-28-9	1,3-Dichloropropane	1	U
127-18-4	Tetrachloroethene	1	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP6RE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-01ARE
Sample wt/vol: 18.7 (g/mL) G Lab File ID: V1F1891
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 0 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	0.8	J
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	0.3	J
	m,p-Xylene	1	J
95-47-6	o-Xylene	0.9	J
1330-20-7	Xylene (Total)	2	
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-86-1	Bromobenzene	1	U
96-18-4	1,2,3-Trichloropropane	1	U
103-65-1	n-Propylbenzene	1	U
95-49-8	2-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	6	
106-43-4	4-Chlorotoluene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	28	
135-98-8	sec-Butylbenzene	1	U
99-87-6	4-Isopropyltoluene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
104-51-8	n-Butylbenzene	1	J
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	2	
87-61-6	1,2,3-Trichlorobenzene	1	U
544-10-5	1-Chlorohexane	1	U
107-13-1	Acrylonitrile	1	U

FORM I VOA OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3CTCP6RE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-01ARE

Sample wt/vol: 18.7 (g/mL) G Lab File ID: V1F1891

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 0 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	1.75	46	J
2.		UNKNOWN	2.53	23	J
3.		UNKNOWN	3.33	4	J
4.		UNKNOWN	4.55	4	J
5.		UNKNOWN	6.34	3	J
6.	66-25-1	HEXANAL	8.85	6	NJ
7.		UNKNOWN	10.84	4	J
8.		UNKNOWN	11.36	5	J
9.	556-67-2	CYCLOTETRASILOXANE, OCTAMETH	11.56	5	NJ
10.	611-14-3	BENZENE, 1-ETHYL-2-METHYL-	11.64	12	NJ
11.		STRAIGHT-CHAIN ALKANE	11.80	15	J
12.	611-14-3	BENZENE, 1-ETHYL-2-METHYL-	11.99	6	NJ
13.		BRANCHED ALKANE	12.16	4	J
14.		UNKNOWN	12.34	5	J
15.		UNKNOWN	12.49	9	J
16.	95-36-3	1,2,4-TRIMETHYLBENZENE	12.70	11	NJ
17.		UNKNOWN	12.74	8	J
18.		UNKNOWN	12.91	66	J
19.	493-02-7	NAPHTHALENE, DECAHYDRO-, TRA	13.02	15	NJ
20.		STRAIGHT-CHAIN ALKANE	13.22	24	J
21.	99-87-6	BENZENE, 1-METHYL-4-(1-METHY	13.39	8	NJ
22.		UNKNOWN	13.45	11	J
23.		UNKNOWN	13.59	6	J
24.	2958-76-1	NAPHTHALENE, DECAHYDRO-2-MET	13.76	8	NJ
25.		CYCLIC ALKANE	13.87	5	J
26.	934-80-5	BENZENE, 4-ETHYL-1,2-DIMETHY	13.92	6	NJ
27.		UNKNOWN	13.97	8	J
28.		UNKNOWN	14.11	6	J
29.		STRAIGHT-CHAIN ALKANE	14.44	9	J
30.		UNKNOWN	14.61	4	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP7

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-02A

Sample wt/vol: 13.0 (g/mL) G Lab File ID: V1F1883

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 0 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	48	
75-09-2	Methylene Chloride	0.4	BJ
156-60-5	trans-1,2-Dichloroethene	2	U
1634-04-4	Methyl tert-butyl ether	2	U
75-34-3	1,1-Dichloroethane	2	U
78-93-3	2-Butanone	13	
156-59-2	cis-1,2-Dichloroethene	2	U
590-20-7	2,2-Dichloropropane	2	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
109-99-9	Tetrahydrofuran	2	U
71-55-6	1,1,1-Trichloroethane	0.5	J
563-58-6	1,1-Dichloropropene	2	U
56-23-5	Carbon Tetrachloride	2	U
107-06-2	1,2-Dichloroethane	2	U
71-43-2	Benzene	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-pentanone	9	
108-88-3	Toluene	1	J
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
127-18-4	Tetrachloroethene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP7

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-02A

Sample wt/vol: 13.0 (g/mL) G Lab File ID: V1F1883

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 0 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	6	
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	0.5	J
	m,p-Xylene	2	
95-47-6	o-Xylene	1	J
1330-20-7	Xylene (Total)	3	
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	8	
106-43-4	4-Chlorotoluene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	32	
135-98-8	sec-Butylbenzene	2	U
99-87-6	4-Isopropyltoluene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
87-68-3	Hexachlorobutadiene	2	U
91-20-3	Naphthalene	2	
87-61-6	1,2,3-Trichlorobenzene	2	U
544-10-5	1-Chlorohexane	2	U
107-13-1	Acrylonitrile	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3CTCP7

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-02A

Sample wt/vol: 13.0 (g/mL) G Lab File ID: V1F1883

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 0 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	115-11-7	1-PROPENE, 2-METHYL-	1.76	7	NJ
2.	123-72-8	BUTANAL	4.55	10	NJ
3.		UNKNOWN	6.34	8	J
4.		UNKNOWN	10.72	7	J
5.		UNKNOWN	10.85	6	J
6.		UNKNOWN	11.36	10	J
7.	556-67-2	CYCLOTETRASILOXANE, OCTAMETH	11.56	8	NJ
8.	611-14-3	BENZENE, 1-ETHYL-2-METHYL-	11.64	11	NJ
9.		STRAIGHT-CHAIN ALKANE	11.80	56	J
10.	611-14-3	BENZENE, 1-ETHYL-2-METHYL-	11.98	11	NJ
11.		BRANCHED ALKANE	12.16	12	J
12.		UNKNOWN	12.34	13	J
13.		UNKNOWN	12.49	17	J
14.		UNKNOWN	12.65	11	J
15.		BRANCHED ALKANE	12.75	16	J
16.		BRANCHED ALKANE	12.84	10	J
17.		UNKNOWN	12.92	28	J
18.	493-02-7	NAPHTHALENE, DECAHYDRO-, TRA	13.02	18	NJ
19.		STRAIGHT-CHAIN ALKANE	13.22	81	J
20.		UNKNOWN	13.39	13	J
21.		UNKNOWN	13.45	18	J
22.		BRANCHED ALKANE	13.59	9	J
23.		UNKNOWN	13.76	17	J
24.		CYCLIC ALKANE	13.87	13	J
25.		UNKNOWN	13.91	15	J
26.	934-74-7	BENZENE, 1-ETHYL-3,5-DIMETHY	13.98	13	NJ
27.		UNKNOWN	14.02	14	J
28.		UNKNOWN	14.11	11	J
29.		STRAIGHT-CHAIN ALKANE	14.43	25	J
30.		UNKNOWN	14.60	8	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP7RE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-02ARE
Sample wt/vol: 12.0 (g/mL) G Lab File ID: V1F1905
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 0 Date Analyzed: 12/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	88	E
75-09-2	Methylene Chloride	1	BJ
156-60-5	trans-1,2-Dichloroethene	2	U
1634-04-4	Methyl tert-butyl ether	2	U
75-34-3	1,1-Dichloroethane	2	U
78-93-3	2-Butanone	26	
156-59-2	cis-1,2-Dichloroethene	2	U
590-20-7	2,2-Dichloropropane	2	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
109-99-9	Tetrahydrofuran	2	U
71-55-6	1,1,1-Trichloroethane	1	J
563-58-6	1,1-Dichloropropene	2	U
56-23-5	Carbon Tetrachloride	2	U
107-06-2	1,2-Dichloroethane	2	U
71-43-2	Benzene	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-pentanone	19	
108-88-3	Toluene	2	J
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
127-18-4	Tetrachloroethene	2	U

FORM I VOA OLM03.0

0 42

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP7RE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-02ARE
Sample wt/vol: 12.0 (g/mL) G Lab File ID: V1F1905
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 0 Date Analyzed: 12/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	13	
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	0.6	J
	m,p-Xylene	3	
95-47-6	o-Xylene	2	J
1330-20-7	Xylene (Total)	5	
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	10	
106-43-4	4-Chlorotoluene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	37	
135-98-8	sec-Butylbenzene	2	U
99-87-6	4-Isopropyltoluene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	1	J
87-68-3	Hexachlorobutadiene	2	U
91-20-3	Naphthalene	4	
87-61-6	1,2,3-Trichlorobenzene	1	J
544-10-5	1-Chlorohexane	2	U
107-13-1	Acrylonitrile	2	U

FORM I VOA OLM03.0

0 43

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3CTCP7RE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-02ARE
Sample wt/vol: 12.0 (g/mL) G Lab File ID: V1F1905
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 0 Date Analyzed: 12/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	1.76	9	J
2. 123-72-8	BUTANAL	4.57	15	NJ
3.	UNKNOWN	6.35	13	J
4.	UNKNOWN	6.60	5	J
5.	UNKNOWN	10.74	11	J
6.	UNKNOWN	10.87	9	J
7.	UNKNOWN	11.38	16	J
8. 611-14-3	BENZENE, 1-ETHYL-2-METHYL-	11.66	15	NJ
9.	STRAIGHT-CHAIN ALKANE	11.81	78	J
10. 611-14-3	BENZENE, 1-ETHYL-2-METHYL-	12.00	15	NJ
11.	BRANCHED ALKANE	12.17	20	J
12.	UNKNOWN	12.36	17	J
13.	UNKNOWN	12.50	24	J
14.	UNKNOWN	12.67	16	J
15.	BRANCHED ALKANE	12.76	24	J
16.	BRANCHED ALKANE	12.86	14	J
17.	UNKNOWN	12.93	27	J
18. 493-02-7	NAPHTHALENE, DECAHYDRO-, TRA	13.04	23	NJ
19.	STRAIGHT-CHAIN ALKANE	13.23	110	J
20.	UNKNOWN	13.40	19	J
21.	STRAIGHT-CHAIN ALKANE	13.47	25	J
22.	UNKNOWN	13.61	14	J
23.	UNKNOWN	13.77	22	J
24.	CYCLIC ALKANE	13.89	16	J
25.	UNKNOWN	13.93	23	J
26.	UNKNOWN	13.99	16	J
27.	UNKNOWN	14.03	17	J
28.	UNKNOWN	14.12	11	J
29.	STRAIGHT-CHAIN ALKANE	14.45	34	J
30.	UNKNOWN	14.61	10	J

FORM I VOA-TIC OLM03.0

0 44

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP8

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-03A
Sample wt/vol: 7.6 (g/mL) G Lab File ID: V1F1884
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 0 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	3	U
74-87-3	Chloromethane	3	U
75-01-4	Vinyl Chloride	3	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-69-4	Trichlorofluoromethane	3	U
75-35-4	1,1-Dichloroethene	6	
67-64-1	Acetone	180	E
75-09-2	Methylene Chloride	0.7	BJ
156-60-5	trans-1,2-Dichloroethene	3	U
1634-04-4	Methyl tert-butyl ether	3	U
75-34-3	1,1-Dichloroethane	3	U
78-93-3	2-Butanone	30	
156-59-2	cis-1,2-Dichloroethene	3	U
590-20-7	2,2-Dichloropropane	3	U
74-97-5	Bromochloromethane	3	U
67-66-3	Chloroform	3	U
109-99-9	Tetrahydrofuran	3	U
71-55-6	1,1,1-Trichloroethane	180	E
563-58-6	1,1-Dichloropropene	3	U
56-23-5	Carbon Tetrachloride	3	U
107-06-2	1,2-Dichloroethane	3	U
71-43-2	Benzene	1	J
79-01-6	Trichloroethene	3	U
78-87-5	1,2-Dichloropropane	3	U
74-95-3	Dibromomethane	3	U
75-27-4	Bromodichloromethane	3	U
10061-01-5	cis-1,3-Dichloropropene	3	U
108-10-1	4-Methyl-2-pentanone	11	
108-88-3	Toluene	5	
10061-02-6	trans-1,3-Dichloropropene	3	U
79-00-5	1,1,2-Trichloroethane	3	U
142-28-9	1,3-Dichloropropane	3	U
127-18-4	Tetrachloroethene	3	U

FORM I VOA OLM03.0

0 45

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP8

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-03A
Sample wt/vol: 7.6 (g/mL) G Lab File ID: V1F1884
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 0 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	29	
124-48-1	Dibromochloromethane	3	U
106-93-4	1,2-Dibromoethane	3	U
108-90-7	Chlorobenzene	3	U
630-20-6	1,1,1,2-Tetrachloroethane	3	U
100-41-4	Ethylbenzene	3	U
	m,p-Xylene	1	J
95-47-6	o-Xylene	3	U
1330-20-7	Xylene (Total)	1	J
100-42-5	Styrene	3	U
75-25-2	Bromoform	3	U
98-82-8	Isopropylbenzene	3	U
79-34-5	1,1,2,2-Tetrachloroethane	3	U
108-86-1	Bromobenzene	3	U
96-18-4	1,2,3-Trichloropropane	3	U
103-65-1	n-Propylbenzene	3	U
95-49-8	2-Chlorotoluene	3	U
108-67-8	1,3,5-Trimethylbenzene	3	U
106-43-4	4-Chlorotoluene	3	U
98-06-6	tert-Butylbenzene	3	U
95-63-6	1,2,4-Trimethylbenzene	2	J
135-98-8	sec-Butylbenzene	3	U
99-87-6	4-Isopropyltoluene	3	U
541-73-1	1,3-Dichlorobenzene	3	U
106-46-7	1,4-Dichlorobenzene	3	U
104-51-8	n-Butylbenzene	3	U
95-50-1	1,2-Dichlorobenzene	3	U
96-12-8	1,2-Dibromo-3-chloropropane	3	U
120-82-1	1,2,4-Trichlorobenzene	3	U
87-68-3	Hexachlorobutadiene	3	U
91-20-3	Naphthalene	1	J
87-61-6	1,2,3-Trichlorobenzene	3	U
544-10-5	1-Chlorohexane	3	U
107-13-1	Acrylonitrile	3	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3CTCP8

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-03A
Sample wt/vol: 7.6 (g/mL) G Lab File ID: V1F1884
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 0 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.34	13	J
2.	UNKNOWN	6.59	8	J
3.	UNKNOWN	6.99	5	J
4. 108-11-2	2-PENTANOL, 4-METHYL-	8.17	16	NJ
5. 110-12-3	2-HEXANONE, 5-METHYL-	8.48	6	NJ
6. 105-42-0	2-HEXANONE, 4-METHYL-	9.89	6	NJ
7.	UNKNOWN	10.10	6	J
8. 106-35-4	3-HEPTANONE	10.56	19	NJ
9. 110-43-0	2-HEPTANONE	10.70	22	NJ
10.	UNKNOWN	10.87	7	J
11. 111-76-2	ETHANOL, 2-BUTOXY-	11.06	52	NJ
12. 6137-06-0	2-HEPTANONE, 4-METHYL-	11.50	20	NJ
13.	UNKNOWN	11.71	7	J
14.	UNKNOWN	11.78	39	J
15.	UNKNOWN	11.92	5	J
16.	UNKNOWN	11.97	10	J
17.	UNKNOWN	12.08	7	J
18. 111-13-7	2-OCTANONE	12.33	19	NJ
19.	UNKNOWN	12.44	12	J
20.	UNKNOWN	12.74	6	J
21.	UNKNOWN	12.90	110	J
22.	STRAIGHT-CHAIN ALKANE	13.22	26	J
23.	UNKNOWN	13.34	21	J
24.	UNKNOWN	13.71	14	J
25.	UNKNOWN	13.87	6	J
26.	UNKNOWN	13.97	8	J
27.	UNKNOWN	14.21	6	J
28.	UNKNOWN	14.26	13	J
29.	UNKNOWN	14.44	14	J
30. 693-54-9	2-DECANONE	14.91	6	NJ

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP8DL

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-03ADL
Sample wt/vol: 15.5 (g/mL) G Lab File ID: V6C4246
Level: (low/med) MED Date Received: 12/23/02
% Moisture: not dec. 0 Date Analyzed: 12/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	81	U
74-87-3	Chloromethane	81	U
75-01-4	Vinyl Chloride	81	U
74-83-9	Bromomethane	81	U
75-00-3	Chloroethane	81	U
75-69-4	Trichlorofluoromethane	81	U
75-35-4	1,1-Dichloroethene	23	DJ
67-64-1	Acetone	150	D
75-09-2	Methylene Chloride	54	DBJ
107-13-1	Acrylonitrile	81	U
156-60-5	trans-1,2-Dichloroethene	81	U
1634-04-4	Methyl tert-butyl ether	81	U
75-34-3	1,1-Dichloroethane	81	U
78-93-3	2-Butanone	81	U
156-59-2	cis-1,2-Dichloroethene	81	U
590-20-7	2,2-Dichloropropane	81	U
74-97-5	Bromochloromethane	81	U
67-66-3	Chloroform	81	U
109-99-9	Tetrahydrofuran	81	U
71-55-6	1,1,1-Trichloroethane	390	D
563-58-6	1,1-Dichloropropene	81	U
56-23-5	Carbon Tetrachloride	81	U
107-06-2	1,2-Dichloroethane	81	U
71-43-2	Benzene	81	U
79-01-6	Trichloroethene	81	U
78-87-5	1,2-Dichloropropane	81	U
74-95-3	Dibromomethane	81	U
75-27-4	Bromodichloromethane	81	U
10061-01-5	cis-1,3-Dichloropropene	81	U
108-10-1	4-Methyl-2-pentanone	81	U
108-88-3	Toluene	25	DJ
10061-02-6	trans-1,3-Dichloropropene	81	U
79-00-5	1,1,2-Trichloroethane	81	U
142-28-9	1,3-Dichloropropane	81	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP8DL

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-03ADL
Sample wt/vol: 15.5 (g/mL) G Lab File ID: V6C4246
Level: (low/med) MED Date Received: 12/23/02
% Moisture: not dec. 0 Date Analyzed: 12/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	81	U
591-78-6	2-Hexanone	81	U
124-48-1	Dibromochloromethane	81	U
106-93-4	1,2-Dibromoethane	81	U
108-90-7	Chlorobenzene	81	U
630-20-6	1,1,1,2-Tetrachloroethane	81	U
100-41-4	Ethylbenzene	81	U
	m,p-Xylene	81	U
95-47-6	o-Xylene	81	U
1330-20-7	Xylene (Total)	81	U
100-42-5	Styrene	81	U
75-25-2	Bromoform	81	U
98-82-8	Isopropylbenzene	81	U
79-34-5	1,1,2,2-Tetrachloroethane	81	U
108-86-1	Bromobenzene	81	U
96-18-4	1,2,3-Trichloropropane	81	U
103-65-1	n-Propylbenzene	81	U
95-49-8	2-Chlorotoluene	81	U
108-67-8	1,3,5-Trimethylbenzene	81	U
106-43-4	4-Chlorotoluene	81	U
98-06-6	tert-Butylbenzene	81	U
95-63-6	1,2,4-Trimethylbenzene	18	DJ
135-98-8	sec-Butylbenzene	81	U
99-87-6	4-Isopropyltoluene	81	U
541-73-1	1,3-Dichlorobenzene	81	U
106-46-7	1,4-Dichlorobenzene	81	U
104-51-8	n-Butylbenzene	81	U
95-50-1	1,2-Dichlorobenzene	81	U
96-12-8	1,2-Dibromo-3-chloropropane	81	U
120-82-1	1,2,4-Trichlorobenzene	81	U
87-68-3	Hexachlorobutadiene	81	U
91-20-3	Naphthalene	40	DJ
87-61-6	1,2,3-Trichlorobenzene	81	U
544-10-5	1-Chlorohexane	81	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3CTCP8DL

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-03ADL
Sample wt/vol: 15.5 (g/mL) G Lab File ID: V6C4246
Level: (low/med) MED Date Received: 12/23/02
% Moisture: not dec. _____ Date Analyzed: 12/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100(uL)

Number TICs found: 3
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	2.74	87	JD
2.		UNKNOWN	12.74	100	JD
3.		STRAIGHT-CHAIN ALKANE	14.12	75	JD
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB4902

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-04A
Sample wt/vol: 13.1 (g/mL) G Lab File ID: V1F1880
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 9 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	19	
75-09-2	Methylene Chloride	0.5	JB
156-60-5	trans-1,2-Dichloroethene	2	U
1634-04-4	Methyl tert-butyl ether	2	U
75-34-3	1,1-Dichloroethane	2	U
78-93-3	2-Butanone	2	J
156-59-2	cis-1,2-Dichloroethene	2	U
590-20-7	2,2-Dichloropropane	2	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
109-99-9	Tetrahydrofuran	2	U
71-55-6	1,1,1-Trichloroethane	2	U
563-58-6	1,1-Dichloropropene	2	U
56-23-5	Carbon Tetrachloride	2	U
107-06-2	1,2-Dichloroethane	2	U
71-43-2	Benzene	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-pentanone	2	U
108-88-3	Toluene	2	U
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
127-18-4	Tetrachloroethene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB4902

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-04A
Sample wt/vol: 13.1 (g/mL) G Lab File ID: V1F1880
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 9 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	2	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	2	U
	m,p-Xylene	2	U
95-47-6	o-Xylene	2	U
1330-20-7	Xylene (Total)	2	U
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
106-43-4	4-Chlorotoluene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
99-87-6	4-Isopropyltoluene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
87-68-3	Hexachlorobutadiene	2	U
91-20-3	Naphthalene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U
544-10-5	1-Chlorohexane	2	U
107-13-1	Acrylonitrile	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3SSTB4902

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-04A
Sample wt/vol: 13.1 (g/mL) G Lab File ID: V1F1880
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 9 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 3
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	11.08	4	J
2.		UNKNOWN	11.56	3	J
3.		UNKNOWN	12.90	34	J
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB5312

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-05A
Sample wt/vol: 15.1 (g/mL) G Lab File ID: V1F1881
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 7 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	22	
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	2	U
1634-04-4	Methyl tert-butyl ether	2	U
75-34-3	1,1-Dichloroethane	2	U
78-93-3	2-Butanone	2	
156-59-2	cis-1,2-Dichloroethene	2	U
590-20-7	2,2-Dichloropropane	2	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
109-99-9	Tetrahydrofuran	2	U
71-55-6	1,1,1-Trichloroethane	1	J
563-58-6	1,1-Dichloropropene	2	U
56-23-5	Carbon Tetrachloride	2	U
107-06-2	1,2-Dichloroethane	2	U
71-43-2	Benzene	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-pentanone	2	U
108-88-3	Toluene	2	U
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
127-18-4	Tetrachloroethene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB5312

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-05A
Sample wt/vol: 15.1 (g/mL) G Lab File ID: V1F1881
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 7 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	2	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	2	U
	m,p-Xylene	2	U
95-47-6	o-Xylene	2	U
1330-20-7	Xylene (Total)	2	U
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
106-43-4	4-Chlorotoluene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
99-87-6	4-Isopropyltoluene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
87-68-3	Hexachlorobutadiene	2	U
91-20-3	Naphthalene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U
544-10-5	1-Chlorohexane	2	U
107-13-1	Acrylonitrile	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3SSTB5312

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-05A
Sample wt/vol: 15.1 (g/mL) G Lab File ID: V1F1881
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 7 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	11.56	2	NJ
2.	UNKNOWN	12.91	3	J
3.	UNKNOWN	19.56	3	J
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB5402

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-06A
Sample wt/vol: 15.1 (g/mL) G Lab File ID: V1F1882
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 9 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	18	
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	2	U
1634-04-4	Methyl tert-butyl ether	2	U
75-34-3	1,1-Dichloroethane	2	U
78-93-3	2-Butanone	2	
156-59-2	cis-1,2-Dichloroethene	2	U
590-20-7	2,2-Dichloropropane	2	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
109-99-9	Tetrahydrofuran	2	U
71-55-6	1,1,1-Trichloroethane	2	U
563-58-6	1,1-Dichloropropene	2	U
56-23-5	Carbon Tetrachloride	2	U
107-06-2	1,2-Dichloroethane	2	U
71-43-2	Benzene	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-pentanone	2	U
108-88-3	Toluene	2	U
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
127-18-4	Tetrachloroethene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB5402

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-06A
Sample wt/vol: 15.1 (g/mL) G Lab File ID: V1F1882
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 9 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	2	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	2	U
----------	m,p-Xylene	2	U
95-47-6	o-Xylene	2	U
1330-20-7	Xylene (Total)	2	U
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
106-43-4	4-Chlorotoluene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
99-87-6	4-Isopropyltoluene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
87-68-3	Hexachlorobutadiene	2	U
91-20-3	Naphthalene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U
544-10-5	1-Chlorohexane	2	U
107-13-1	Acrylonitrile	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3SSTB5402

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-06A
Sample wt/vol: 15.1 (g/mL) G Lab File ID: V1F1882
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 9 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3T2

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-09A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4194
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. _____ Date Analyzed: 12/29/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3T2

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-09A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4194
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. _____ Date Analyzed: 12/29/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
----------	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3T2

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-09A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4194
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. _____ Date Analyzed: 12/29/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5SSTB6267

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-15A
Sample wt/vol: 7.8 (g/mL) G Lab File ID: V1F1911
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 43 Date Analyzed: 12/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6	U
74-87-3	Chloromethane	6	U
75-01-4	Vinyl Chloride	6	U
74-83-9	Bromomethane	6	U
75-00-3	Chloroethane	6	U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
67-64-1	Acetone	22	
75-09-2	Methylene Chloride	38	B
156-60-5	trans-1,2-Dichloroethene	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-34-3	1,1-Dichloroethane	6	U
78-93-3	2-Butanone	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
590-20-7	2,2-Dichloropropane	6	U
74-97-5	Bromochloromethane	6	U
67-66-3	Chloroform	6	U
109-99-9	Tetrahydrofuran	6	U
71-55-6	1,1,1-Trichloroethane	6	U
563-58-6	1,1-Dichloropropene	6	U
56-23-5	Carbon Tetrachloride	6	U
107-06-2	1,2-Dichloroethane	6	U
71-43-2	Benzene	6	U
79-01-6	Trichloroethene	6	U
78-87-5	1,2-Dichloropropane	6	U
74-95-3	Dibromomethane	6	U
75-27-4	Bromodichloromethane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-pentanone	6	U
108-88-3	Toluene	1	J
10061-02-6	trans-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U
142-28-9	1,3-Dichloropropane	6	U
127-18-4	Tetrachloroethene	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5SSTB6267

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-15A
Sample wt/vol: 7.8 (g/mL) G Lab File ID: V1F1911
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 43 Date Analyzed: 12/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	6	U
124-48-1	Dibromochloromethane	6	U
106-93-4	1,2-Dibromoethane	6	U
108-90-7	Chlorobenzene	6	U
630-20-6	1,1,1,2-Tetrachloroethane	6	U
100-41-4	Ethylbenzene	6	U
----------	m,p-Xylene	6	U
95-47-6	o-Xylene	6	U
1330-20-7	Xylene (Total)	6	U
100-42-5	Styrene	6	U
75-25-2	Bromoform	6	U
98-82-8	Isopropylbenzene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-86-1	Bromobenzene	6	U
96-18-4	1,2,3-Trichloropropane	6	U
103-65-1	n-Propylbenzene	6	U
95-49-8	2-Chlorotoluene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
106-43-4	4-Chlorotoluene	6	U
98-06-6	tert-Butylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
135-98-8	sec-Butylbenzene	6	U
99-87-6	4-Isopropyltoluene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
104-51-8	n-Butylbenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U
87-68-3	Hexachlorobutadiene	6	U
91-20-3	Naphthalene	6	U
87-61-6	1,2,3-Trichlorobenzene	6	U
544-10-5	1-Chlorohexane	6	U
107-13-1	Acrylonitrile	6	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC5SSTB6267

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-15A
Sample wt/vol: 7.8 (g/mL) G Lab File ID: V1F1911
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 43 Date Analyzed: 12/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5ASSTB68015

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-25A
Sample wt/vol: 17.2 (g/mL) G Lab File ID: V1F1890
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 7 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	2	U
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	2	U
1634-04-4	Methyl tert-butyl ether	2	U
75-34-3	1,1-Dichloroethane	2	U
78-93-3	2-Butanone	2	U
156-59-2	cis-1,2-Dichloroethene	2	U
590-20-7	2,2-Dichloropropane	2	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
109-99-9	Tetrahydrofuran	2	U
71-55-6	1,1,1-Trichloroethane	2	U
563-58-6	1,1-Dichloropropene	2	U
56-23-5	Carbon Tetrachloride	2	U
107-06-2	1,2-Dichloroethane	2	U
71-43-2	Benzene	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-pentanone	2	U
108-88-3	Toluene	0.6	J
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
127-18-4	Tetrachloroethene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5ASSTB68015

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-25A
Sample wt/vol: 17.2 (g/mL) G Lab File ID: V1F1890
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 7 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	2	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	2	U
	m,p-Xylene	2	U
95-47-6	o-Xylene	2	U
1330-20-7	Xylene (Total)	2	U
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
106-43-4	4-Chlorotoluene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
99-87-6	4-Isopropyltoluene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
87-68-3	Hexachlorobutadiene	2	U
91-20-3	Naphthalene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U
544-10-5	1-Chlorohexane	2	U
107-13-1	Acrylonitrile	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC5ASSTB68015

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-25A
Sample wt/vol: 17.2 (g/mL) G Lab File ID: V1F1890
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 7 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5ASST B68015RE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-25ARE
Sample wt/vol: 7.0 (g/mL) G Lab File ID: V1F1906
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 7 Date Analyzed: 12/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	4	U
74-87-3	Chloromethane	4	U
75-01-4	Vinyl Chloride	4	U
74-83-9	Bromomethane	4	U
75-00-3	Chloroethane	4	U
75-69-4	Trichlorofluoromethane	4	U
75-35-4	1,1-Dichloroethene	4	U
67-64-1	Acetone	17	
75-09-2	Methylene Chloride	4	U
156-60-5	trans-1,2-Dichloroethene	4	U
1634-04-4	Methyl tert-butyl ether	4	U
75-34-3	1,1-Dichloroethane	4	U
78-93-3	2-Butanone	4	U
156-59-2	cis-1,2-Dichloroethene	4	U
590-20-7	2,2-Dichloropropane	4	U
74-97-5	Bromochloromethane	4	U
67-66-3	Chloroform	4	U
109-99-9	Tetrahydrofuran	4	U
71-55-6	1,1,1-Trichloroethane	4	U
563-58-6	1,1-Dichloropropene	4	U
56-23-5	Carbon Tetrachloride	4	U
107-06-2	1,2-Dichloroethane	4	U
71-43-2	Benzene	4	U
79-01-6	Trichloroethene	4	U
78-87-5	1,2-Dichloropropane	4	U
74-95-3	Dibromomethane	4	U
75-27-4	Bromodichloromethane	4	U
10061-01-5	cis-1,3-Dichloropropene	4	U
108-10-1	4-Methyl-2-pentanone	4	U
108-88-3	Toluene	1	J
10061-02-6	trans-1,3-Dichloropropene	4	U
79-00-5	1,1,2-Trichloroethane	4	U
142-28-9	1,3-Dichloropropane	4	U
127-18-4	Tetrachloroethene	4	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5ASST
B68015RE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-25ARE
Sample wt/vol: 7.0 (g/mL) G Lab File ID: V1F1906
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 7 Date Analyzed: 12/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	4	U
124-48-1	Dibromochloromethane	4	U
106-93-4	1,2-Dibromoethane	4	U
108-90-7	Chlorobenzene	4	U
630-20-6	1,1,1,2-Tetrachloroethane	4	U
100-41-4	Ethylbenzene	4	U
	m,p-Xylene	4	U
95-47-6	o-Xylene	4	U
1330-20-7	Xylene (Total)	4	U
100-42-5	Styrene	4	U
75-25-2	Bromoform	4	U
98-82-8	Isopropylbenzene	4	U
79-34-5	1,1,2,2-Tetrachloroethane	4	U
108-86-1	Bromobenzene	4	U
96-18-4	1,2,3-Trichloropropane	4	U
103-65-1	n-Propylbenzene	4	U
95-49-8	2-Chlorotoluene	4	U
108-67-8	1,3,5-Trimethylbenzene	4	U
106-43-4	4-Chlorotoluene	4	U
98-06-6	tert-Butylbenzene	4	U
95-63-6	1,2,4-Trimethylbenzene	4	U
135-98-8	sec-Butylbenzene	4	U
99-87-6	4-Isopropyltoluene	4	U
541-73-1	1,3-Dichlorobenzene	4	U
106-46-7	1,4-Dichlorobenzene	4	U
104-51-8	n-Butylbenzene	4	U
95-50-1	1,2-Dichlorobenzene	4	U
96-12-8	1,2-Dibromo-3-chloropropane	4	U
120-82-1	1,2,4-Trichlorobenzene	4	U
87-68-3	Hexachlorobutadiene	4	U
91-20-3	Naphthalene	4	U
87-61-6	1,2,3-Trichlorobenzene	4	U
544-10-5	1-Chlorohexane	4	U
107-13-1	Acrylonitrile	4	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC5ASST
B68015RE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-25ARE
Sample wt/vol: 7.0 (g/mL) G Lab File ID: V1F1906
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 7 Date Analyzed: 12/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 6 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	11.09	18	J
2. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	11.57	7	NJ
3.	UNKNOWN	11.81	4	J
4.	UNKNOWN	12.93	43	J
5.	UNKNOWN	13.74	5	J
6.	UNKNOWN	19.00	8	J
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5ASSTB6978

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-24A
Sample wt/vol: 4.6 (g/mL) G Lab File ID: V1F1889
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 49 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
67-64-1	Acetone	150	
75-09-2	Methylene Chloride	2	JB
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl tert-butyl ether	11	U
75-34-3	1,1-Dichloroethane	11	U
78-93-3	2-Butanone	35	
156-59-2	cis-1,2-Dichloroethene	11	U
590-20-7	2,2-Dichloropropane	11	U
74-97-5	Bromochloromethane	11	U
67-66-3	Chloroform	11	U
109-99-9	Tetrahydrofuran	11	U
71-55-6	1,1,1-Trichloroethane	11	U
563-58-6	1,1-Dichloropropene	11	U
56-23-5	Carbon Tetrachloride	11	U
107-06-2	1,2-Dichloroethane	11	U
71-43-2	Benzene	11	U
79-01-6	Trichloroethene	11	U
78-87-5	1,2-Dichloropropane	11	U
74-95-3	Dibromomethane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	7	J
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
142-28-9	1,3-Dichloropropane	11	U
127-18-4	Tetrachloroethene	11	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5ASSTB6978

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-24A
Sample wt/vol: 4.6 (g/mL) G Lab File ID: V1F1889
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 49 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
630-20-6	1,1,1,2-Tetrachloroethane	11	U
100-41-4	Ethylbenzene	11	U
	m,p-Xylene	11	U
95-47-6	o-Xylene	11	U
1330-20-7	Xylene (Total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-86-1	Bromobenzene	11	U
96-18-4	1,2,3-Trichloropropane	11	U
103-65-1	n-Propylbenzene	11	U
95-49-8	2-Chlorotoluene	11	U
108-67-8	1,3,5-Trimethylbenzene	11	U
106-43-4	4-Chlorotoluene	11	U
98-06-6	tert-Butylbenzene	11	U
95-63-6	1,2,4-Trimethylbenzene	11	U
135-98-8	sec-Butylbenzene	11	U
99-87-6	4-Isopropyltoluene	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
104-51-8	n-Butylbenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
87-68-3	Hexachlorobutadiene	11	U
91-20-3	Naphthalene	11	U
87-61-6	1,2,3-Trichlorobenzene	11	U
544-10-5	1-Chlorohexane	11	U
107-13-1	Acrylonitrile	11	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC5ASSTB6978

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-24A

Sample wt/vol: 4.6 (g/mL) G Lab File ID: V1F1889

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 49 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.15	58	J
2.	UNKNOWN	11.56	21	J
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5ASSTB7002

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-23A

Sample wt/vol: 18.5 (g/mL) G Lab File ID: V1F1888

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 7 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	9	
75-09-2	Methylene Chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
1634-04-4	Methyl tert-butyl ether	1	U
75-34-3	1,1-Dichloroethane	1	U
78-93-3	2-Butanone	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
590-20-7	2,2-Dichloropropane	1	U
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	1	U
109-99-9	Tetrahydrofuran	1	U
71-55-6	1,1,1-Trichloroethane	1	U
563-58-6	1,1-Dichloropropene	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
142-28-9	1,3-Dichloropropane	1	U
127-18-4	Tetrachloroethene	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5ASSTB7002

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-23A

Sample wt/vol: 18.5 (g/mL) G Lab File ID: V1F1888

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 7 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	1	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
	m,p-Xylene	1	U
95-47-6	o-Xylene	1	U
1330-20-7	Xylene (Total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-86-1	Bromobenzene	1	U
96-18-4	1,2,3-Trichloropropane	1	U
103-65-1	n-Propylbenzene	1	U
95-49-8	2-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
106-43-4	4-Chlorotoluene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	1	U
99-87-6	4-Isopropyltoluene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U
544-10-5	1-Chlorohexane	1	U
107-13-1	Acrylonitrile	1	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC5ASSTB7002

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-23A

Sample wt/vol: 18.5 (g/mL) G Lab File ID: V1F1888

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 7 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC5E7

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-14A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4195
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. _____ Date Analyzed: 12/29/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	2	J
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC5E7

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-14A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4195
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. _____ Date Analyzed: 12/29/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: AOC5E7

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-14A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4195
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. _____ Date Analyzed: 12/29/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.60	4	J
2.	UNKNOWN	5.62	4	J
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC5WTB62W

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-16A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4196
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. _____ Date Analyzed: 12/29/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	2	J
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	6	
75-34-3	1,1-Dichloroethane	57	
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5WTB62W

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-16A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4196
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. _____ Date Analyzed: 12/29/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC5WTB62W

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-16A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4196
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. _____ Date Analyzed: 12/29/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC6SSTB7167

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-22A
Sample wt/vol: 7.0 (g/mL) G Lab File ID: V1F1887
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 37 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6	U
74-87-3	Chloromethane	6	U
75-01-4	Vinyl Chloride	6	U
74-83-9	Bromomethane	6	U
75-00-3	Chloroethane	6	U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
67-64-1	Acetone	100	
75-09-2	Methylene Chloride	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-34-3	1,1-Dichloroethane	6	U
78-93-3	2-Butanone	23	
156-59-2	cis-1,2-Dichloroethene	6	U
590-20-7	2,2-Dichloropropane	6	U
74-97-5	Bromochloromethane	6	U
67-66-3	Chloroform	6	U
109-99-9	Tetrahydrofuran	6	U
71-55-6	1,1,1-Trichloroethane	6	U
563-58-6	1,1-Dichloropropene	6	U
56-23-5	Carbon Tetrachloride	6	U
107-06-2	1,2-Dichloroethane	6	U
71-43-2	Benzene	6	U
79-01-6	Trichloroethene	6	U
78-87-5	1,2-Dichloropropane	6	U
74-95-3	Dibromomethane	6	U
75-27-4	Bromodichloromethane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-pentanone	6	U
108-88-3	Toluene	2	J
10061-02-6	trans-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U
142-28-9	1,3-Dichloropropane	6	U
127-18-4	Tetrachloroethene	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC6SSTB7167

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-22A
Sample wt/vol: 7.0 (g/mL) G Lab File ID: V1F1887
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 37 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	6	U
124-48-1	Dibromochloromethane	6	U
106-93-4	1,2-Dibromoethane	6	U
108-90-7	Chlorobenzene	6	U
630-20-6	1,1,1,2-Tetrachloroethane	6	U
100-41-4	Ethylbenzene	3	J
	m,p-Xylene	41	
95-47-6	o-Xylene	28	
1330-20-7	Xylene (Total)	68	
100-42-5	Styrene	6	U
75-25-2	Bromoform	6	U
98-82-8	Isopropylbenzene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-86-1	Bromobenzene	6	U
96-18-4	1,2,3-Trichloropropane	6	U
103-65-1	n-Propylbenzene	6	U
95-49-8	2-Chlorotoluene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
106-43-4	4-Chlorotoluene	6	U
98-06-6	tert-Butylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
135-98-8	sec-Butylbenzene	6	U
99-87-6	4-Isopropyltoluene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
104-51-8	n-Butylbenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U
87-68-3	Hexachlorobutadiene	6	U
91-20-3	Naphthalene	6	U
87-61-6	1,2,3-Trichlorobenzene	6	U
544-10-5	1-Chlorohexane	6	U
107-13-1	Acrylonitrile	6	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC6SSTB7167

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-22A

Sample wt/vol: 7.0 (g/mL) G Lab File ID: V1F1887

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 37 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.15	49	J
2. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	11.56	7	NJ
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC7SSTB6578

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-17A

Sample wt/vol: 4.0 (g/mL) G Lab File ID: V1F1886

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 43 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
67-64-1	Acetone	170	
75-09-2	Methylene Chloride	11	U
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl tert-butyl ether	11	U
75-34-3	1,1-Dichloroethane	2	J
78-93-3	2-Butanone	36	
156-59-2	cis-1,2-Dichloroethene	11	U
590-20-7	2,2-Dichloropropane	11	U
74-97-5	Bromochloromethane	11	U
67-66-3	Chloroform	11	U
109-99-9	Tetrahydrofuran	11	U
71-55-6	1,1,1-Trichloroethane	11	U
563-58-6	1,1-Dichloropropene	11	U
56-23-5	Carbon Tetrachloride	11	U
107-06-2	1,2-Dichloroethane	11	U
71-43-2	Benzene	11	U
79-01-6	Trichloroethene	11	U
78-87-5	1,2-Dichloropropane	11	U
74-95-3	Dibromomethane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	15	
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
142-28-9	1,3-Dichloropropane	11	U
127-18-4	Tetrachloroethene	11	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC7SSTB6578

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-17A

Sample wt/vol: 4.0 (g/mL) G Lab File ID: V1F1886

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 43 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
630-20-6	1,1,1,2-Tetrachloroethane	11	U
100-41-4	Ethylbenzene	11	U
	m,p-Xylene	11	U
95-47-6	o-Xylene	11	U
1330-20-7	Xylene (Total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-86-1	Bromobenzene	11	U
96-18-4	1,2,3-Trichloropropane	11	U
103-65-1	n-Propylbenzene	11	U
95-49-8	2-Chlorotoluene	11	U
108-67-8	1,3,5-Trimethylbenzene	11	U
106-43-4	4-Chlorotoluene	11	U
98-06-6	tert-Butylbenzene	11	U
95-63-6	1,2,4-Trimethylbenzene	11	U
135-98-8	sec-Butylbenzene	11	U
99-87-6	4-Isopropyltoluene	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
104-51-8	n-Butylbenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
87-68-3	Hexachlorobutadiene	11	U
91-20-3	Naphthalene	11	U
87-61-6	1,2,3-Trichlorobenzene	11	U
544-10-5	1-Chlorohexane	11	U
107-13-1	Acrylonitrile	11	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC7SSTB6578

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-17A

Sample wt/vol: 4.0 (g/mL) G Lab File ID: V1F1886

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 43 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	11.56	26	NJ
2.	UNKNOWN	12.92	22	J
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC7WTB65GW

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-18A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4197
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. _____ Date Analyzed: 12/29/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	4	J
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	12	
75-34-3	1,1-Dichloroethane	2	J
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	2	J
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC7WTB65GW

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-18A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4197
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. _____ Date Analyzed: 12/29/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC7WTB65GW

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-18A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4197
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. _____ Date Analyzed: 12/29/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V1KLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: V1LL1230A
Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1877
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	45	
74-87-3	Chloromethane	48	
75-01-4	Vinyl Chloride	48	
74-83-9	Bromomethane	42	
75-00-3	Chloroethane	44	
75-69-4	Trichlorofluoromethane	48	
75-35-4	1,1-Dichloroethene	48	
67-64-1	Acetone	45	
75-09-2	Methylene Chloride	45	B
156-60-5	trans-1,2-Dichloroethene	48	
1634-04-4	Methyl tert-butyl ether	55	
75-34-3	1,1-Dichloroethane	49	
78-93-3	2-Butanone	55	
156-59-2	cis-1,2-Dichloroethene	49	
590-20-7	2,2-Dichloropropane	48	
74-97-5	Bromochloromethane	50	
67-66-3	Chloroform	50	
109-99-9	Tetrahydrofuran	56	
71-55-6	1,1,1-Trichloroethane	48	
563-58-6	1,1-Dichloropropene	47	
56-23-5	Carbon Tetrachloride	47	
107-06-2	1,2-Dichloroethane	53	
71-43-2	Benzene	49	
79-01-6	Trichloroethene	48	
78-87-5	1,2-Dichloropropane	50	
74-95-3	Dibromomethane	51	
75-27-4	Bromodichloromethane	50	
10061-01-5	cis-1,3-Dichloropropene	50	
108-10-1	4-Methyl-2-pentanone	55	
108-88-3	Toluene	48	
10061-02-6	trans-1,3-Dichloropropene	52	
79-00-5	1,1,2-Trichloroethane	50	
142-28-9	1,3-Dichloropropane	51	
127-18-4	Tetrachloroethene	46	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: V1KLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: V1L1230A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1877

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	57	
124-48-1	Dibromochloromethane	50	
106-93-4	1,2-Dibromoethane	51	
108-90-7	Chlorobenzene	47	
630-20-6	1,1,1,2-Tetrachloroethane	49	
100-41-4	Ethylbenzene	47	
----------	m,p-Xylene	92	
95-47-6	o-Xylene	47	
1330-20-7	Xylene (Total)	140	
100-42-5	Styrene	50	
75-25-2	Bromoform	51	
98-82-8	Isopropylbenzene	47	
79-34-5	1,1,2,2-Tetrachloroethane	48	
108-86-1	Bromobenzene	47	
96-18-4	1,2,3-Trichloropropane	48	
103-65-1	n-Propylbenzene	45	
95-49-8	2-Chlorotoluene	46	
108-67-8	1,3,5-Trimethylbenzene	46	
106-43-4	4-Chlorotoluene	45	
98-06-6	tert-Butylbenzene	43	
95-63-6	1,2,4-Trimethylbenzene	46	
135-98-8	sec-Butylbenzene	45	
99-87-6	4-Isopropyltoluene	45	
541-73-1	1,3-Dichlorobenzene	46	
106-46-7	1,4-Dichlorobenzene	46	
104-51-8	n-Butylbenzene	45	
95-50-1	1,2-Dichlorobenzene	45	
96-12-8	1,2-Dibromo-3-chloropropane	48	
120-82-1	1,2,4-Trichlorobenzene	46	
87-68-3	Hexachlorobutadiene	46	
91-20-3	Naphthalene	43	
87-61-6	1,2,3-Trichlorobenzene	44	
544-10-5	1-Chlorohexane	45	
107-13-1	Acrylonitrile	220	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: V1KLCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: V1L1230B

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1878

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	42	
74-87-3	Chloromethane	49	
75-01-4	Vinyl Chloride	48	
74-83-9	Bromomethane	44	
75-00-3	Chloroethane	45	
75-69-4	Trichlorofluoromethane	46	
75-35-4	1,1-Dichloroethene	50	
67-64-1	Acetone	44	
75-09-2	Methylene Chloride	47	B
156-60-5	trans-1,2-Dichloroethene	49	
1634-04-4	Methyl tert-butyl ether	35	
75-34-3	1,1-Dichloroethane	51	
78-93-3	2-Butanone	52	
156-59-2	cis-1,2-Dichloroethene	50	
590-20-7	2,2-Dichloropropane	47	
74-97-5	Bromochloromethane	51	
67-66-3	Chloroform	51	
109-99-9	Tetrahydrofuran	54	
71-55-6	1,1,1-Trichloroethane	49	
563-58-6	1,1-Dichloropropene	49	
56-23-5	Carbon Tetrachloride	49	
107-06-2	1,2-Dichloroethane	54	
71-43-2	Benzene	50	
79-01-6	Trichloroethene	50	
78-87-5	1,2-Dichloropropane	51	
74-95-3	Dibromomethane	52	
75-27-4	Bromodichloromethane	52	
10061-01-5	cis-1,3-Dichloropropene	52	
108-10-1	4-Methyl-2-pentanone	52	
108-88-3	Toluene	50	
10061-02-6	trans-1,3-Dichloropropene	52	
79-00-5	1,1,2-Trichloroethane	52	
142-28-9	1,3-Dichloropropane	52	
127-18-4	Tetrachloroethene	50	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: V1KLCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: V1L1230B

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1878

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	53	
124-48-1	Dibromochloromethane	51	
106-93-4	1,2-Dibromoethane	52	
108-90-7	Chlorobenzene	49	
630-20-6	1,1,1,2-Tetrachloroethane	50	
100-41-4	Ethylbenzene	50	
----------	m,p-Xylene	97	
95-47-6	o-Xylene	48	
1330-20-7	Xylene (Total)	140	
100-42-5	Styrene	50	
75-25-2	Bromoform	51	
98-82-8	Isopropylbenzene	49	
79-34-5	1,1,2,2-Tetrachloroethane	48	
108-86-1	Bromobenzene	49	
96-18-4	1,2,3-Trichloropropane	50	
103-65-1	n-Propylbenzene	48	
95-49-8	2-Chlorotoluene	48	
108-67-8	1,3,5-Trimethylbenzene	47	
106-43-4	4-Chlorotoluene	48	
98-06-6	tert-Butylbenzene	46	
95-63-6	1,2,4-Trimethylbenzene	48	
135-98-8	sec-Butylbenzene	47	
99-87-6	4-Isopropyltoluene	47	
541-73-1	1,3-Dichlorobenzene	48	
106-46-7	1,4-Dichlorobenzene	48	
104-51-8	n-Butylbenzene	47	
95-50-1	1,2-Dichlorobenzene	47	
96-12-8	1,2-Dibromo-3-chloropropane	48	
120-82-1	1,2,4-Trichlorobenzene	47	
87-68-3	Hexachlorobutadiene	49	
91-20-3	Naphthalene	44	
87-61-6	1,2,3-Trichlorobenzene	46	
544-10-5	1-Chlorohexane	47	
107-13-1	Acrylonitrile	260	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: V1LLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: V1L1231A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1903

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	48	
74-87-3	Chloromethane	53	
75-01-4	Vinyl Chloride	53	
74-83-9	Bromomethane	42	
75-00-3	Chloroethane	43	
75-69-4	Trichlorofluoromethane	51	
75-35-4	1,1-Dichloroethene	53	
67-64-1	Acetone	54	
75-09-2	Methylene Chloride	53	B
156-60-5	trans-1,2-Dichloroethene	50	
1634-04-4	Methyl tert-butyl ether	57	
75-34-3	1,1-Dichloroethane	52	
78-93-3	2-Butanone	62	
156-59-2	cis-1,2-Dichloroethene	50	
590-20-7	2,2-Dichloropropane	50	
74-97-5	Bromochloromethane	52	
67-66-3	Chloroform	53	
109-99-9	Tetrahydrofuran	61	
71-55-6	1,1,1-Trichloroethane	50	
563-58-6	1,1-Dichloropropene	51	
56-23-5	Carbon Tetrachloride	50	
107-06-2	1,2-Dichloroethane	56	
71-43-2	Benzene	52	
79-01-6	Trichloroethene	51	
78-87-5	1,2-Dichloropropane	53	
74-95-3	Dibromomethane	55	
75-27-4	Bromodichloromethane	53	
10061-01-5	cis-1,3-Dichloropropene	53	
108-10-1	4-Methyl-2-pentanone	64	
108-88-3	Toluene	51	
10061-02-6	trans-1,3-Dichloropropene	55	
79-00-5	1,1,2-Trichloroethane	54	
142-28-9	1,3-Dichloropropane	55	
127-18-4	Tetrachloroethene	50	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: V1LLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: V1L1231A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1903

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	65	
124-48-1	Dibromochloromethane	52	
106-93-4	1,2-Dibromoethane	54	
108-90-7	Chlorobenzene	49	
630-20-6	1,1,1,2-Tetrachloroethane	50	
100-41-4	Ethylbenzene	50	
	m,p-Xylene	98	
95-47-6	o-Xylene	50	
1330-20-7	Xylene (Total)	150	
100-42-5	Styrene	52	
75-25-2	Bromoform	53	
98-82-8	Isopropylbenzene	50	
79-34-5	1,1,2,2-Tetrachloroethane	51	
108-86-1	Bromobenzene	49	
96-18-4	1,2,3-Trichloropropane	54	
103-65-1	n-Propylbenzene	49	
95-49-8	2-Chlorotoluene	47	
108-67-8	1,3,5-Trimethylbenzene	48	
106-43-4	4-Chlorotoluene	48	
98-06-6	tert-Butylbenzene	47	
95-63-6	1,2,4-Trimethylbenzene	48	
135-98-8	sec-Butylbenzene	47	
99-87-6	4-Isopropyltoluene	48	
541-73-1	1,3-Dichlorobenzene	48	
106-46-7	1,4-Dichlorobenzene	47	
104-51-8	n-Butylbenzene	49	
95-50-1	1,2-Dichlorobenzene	47	
96-12-8	1,2-Dibromo-3-chloropropane	53	
120-82-1	1,2,4-Trichlorobenzene	47	
87-68-3	Hexachlorobutadiene	48	
91-20-3	Naphthalene	47	
87-61-6	1,2,3-Trichlorobenzene	47	
544-10-5	1-Chlorohexane	49	
107-13-1	Acrylonitrile	290	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: V6RLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: V6L1229A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4183

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/29/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	51	
74-87-3	Chloromethane	46	
75-01-4	Vinyl Chloride	44	
74-83-9	Bromomethane	56	
75-00-3	Chloroethane	50	
75-69-4	Trichlorofluoromethane	46	
75-35-4	1,1-Dichloroethene	48	
67-64-1	Acetone	32	
75-09-2	Methylene Chloride	49	
107-13-1	Acrylonitrile	210	
156-60-5	trans-1,2-Dichloroethene	49	
1634-04-4	Methyl tert-butyl ether	47	
75-34-3	1,1-Dichloroethane	45	
78-93-3	2-Butanone	39	
156-59-2	cis-1,2-Dichloroethene	50	
590-20-7	2,2-Dichloropropane	48	
74-97-5	Bromochloromethane	53	
67-66-3	Chloroform	48	
109-99-9	Tetrahydrofuran	46	
71-55-6	1,1,1-Trichloroethane	49	
563-58-6	1,1-Dichloropropene	53	
56-23-5	Carbon Tetrachloride	52	
107-06-2	1,2-Dichloroethane	44	
71-43-2	Benzene	48	
79-01-6	Trichloroethene	55	
78-87-5	1,2-Dichloropropane	46	
74-95-3	Dibromomethane	48	
75-27-4	Bromodichloromethane	49	
10061-01-5	cis-1,3-Dichloropropene	49	
108-10-1	4-Methyl-2-pentanone	40	
108-88-3	Toluene	52	
10061-02-6	trans-1,3-Dichloropropene	48	
79-00-5	1,1,2-Trichloroethane	49	
142-28-9	1,3-Dichloropropane	46	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: V6RLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: V6L1229A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4183

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/29/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	54	
591-78-6	2-Hexanone	40	
124-48-1	Dibromochloromethane	52	
106-93-4	1,2-Dibromoethane	49	
108-90-7	Chlorobenzene	50	
630-20-6	1,1,1,2-Tetrachloroethane	51	
100-41-4	Ethylbenzene	50	
	m,p-Xylene	100	
95-47-6	o-Xylene	50	
1330-20-7	Xylene (Total)	150	
100-42-5	Styrene	50	
75-25-2	Bromoform	57	
98-82-8	Isopropylbenzene	52	
79-34-5	1,1,2,2-Tetrachloroethane	43	
108-86-1	Bromobenzene	52	
96-18-4	1,2,3-Trichloropropane	44	
103-65-1	n-Propylbenzene	50	
95-49-8	2-Chlorotoluene	50	
108-67-8	1,3,5-Trimethylbenzene	49	
106-43-4	4-Chlorotoluene	49	
98-06-6	tert-Butylbenzene	50	
95-63-6	1,2,4-Trimethylbenzene	48	
135-98-8	sec-Butylbenzene	49	
99-87-6	4-Isopropyltoluene	49	
541-73-1	1,3-Dichlorobenzene	51	
106-46-7	1,4-Dichlorobenzene	51	
104-51-8	n-Butylbenzene	48	
95-50-1	1,2-Dichlorobenzene	50	
96-12-8	1,2-Dibromo-3-chloropropane	40	
120-82-1	1,2,4-Trichlorobenzene	53	
87-68-3	Hexachlorobutadiene	53	
91-20-3	Naphthalene	47	
87-61-6	1,2,3-Trichlorobenzene	51	
544-10-5	1-Chlorohexane	48	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: V6ULCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: V6L1231A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V6C4244

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2600	
74-87-3	Chloromethane	2800	
75-01-4	Vinyl Chloride	2700	
74-83-9	Bromomethane	3300	
75-00-3	Chloroethane	3200	
75-69-4	Trichlorofluoromethane	2400	
75-35-4	1,1-Dichloroethene	2500	
67-64-1	Acetone	1900	
75-09-2	Methylene Chloride	2500	B
107-13-1	Acrylonitrile	11000	
156-60-5	trans-1,2-Dichloroethene	2600	
1634-04-4	Methyl tert-butyl ether	2400	
75-34-3	1,1-Dichloroethane	2500	
78-93-3	2-Butanone	2000	
156-59-2	cis-1,2-Dichloroethene	2600	
590-20-7	2,2-Dichloropropane	2600	
74-97-5	Bromochloromethane	2500	
67-66-3	Chloroform	2600	
109-99-9	Tetrahydrofuran	2400	
71-55-6	1,1,1-Trichloroethane	2600	
563-58-6	1,1-Dichloropropene	2600	
56-23-5	Carbon Tetrachloride	2600	
107-06-2	1,2-Dichloroethane	2400	
71-43-2	Benzene	2600	
79-01-6	Trichloroethene	2600	
78-87-5	1,2-Dichloropropane	2500	
74-95-3	Dibromomethane	2400	
75-27-4	Bromodichloromethane	2600	
10061-01-5	cis-1,3-Dichloropropene	2500	
108-10-1	4-Methyl-2-pentanone	2100	
108-88-3	Toluene	2700	
10061-02-6	trans-1,3-Dichloropropene	2500	
79-00-5	1,1,2-Trichloroethane	2400	
142-28-9	1,3-Dichloropropane	2300	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: V6ULCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: V6L1231A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V6C4244

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	2500	
591-78-6	2-Hexanone	2100	
124-48-1	Dibromochloromethane	2500	
106-93-4	1,2-Dibromoethane	2400	
108-90-7	Chlorobenzene	2600	
630-20-6	1,1,1,2-Tetrachloroethane	2600	
100-41-4	Ethylbenzene	2600	
	m,p-Xylene	5200	
95-47-6	o-Xylene	2600	
1330-20-7	Xylene (Total)	7800	
100-42-5	Styrene	2600	
75-25-2	Bromoform	2500	
98-82-8	Isopropylbenzene	2700	
79-34-5	1,1,2,2-Tetrachloroethane	2200	
108-86-1	Bromobenzene	2600	
96-18-4	1,2,3-Trichloropropane	2300	
103-65-1	n-Propylbenzene	2500	
95-49-8	2-Chlorotoluene	2500	
108-67-8	1,3,5-Trimethylbenzene	2600	
106-43-4	4-Chlorotoluene	2500	
98-06-6	tert-Butylbenzene	2600	
95-63-6	1,2,4-Trimethylbenzene	2600	
135-98-8	sec-Butylbenzene	2600	
99-87-6	4-Isopropyltoluene	2600	
541-73-1	1,3-Dichlorobenzene	2600	
106-46-7	1,4-Dichlorobenzene	2600	
104-51-8	n-Butylbenzene	2600	
95-50-1	1,2-Dichlorobenzene	2500	
96-12-8	1,2-Dibromo-3-chloropropane	2100	
120-82-1	1,2,4-Trichlorobenzene	2500	
87-68-3	Hexachlorobutadiene	2500	
91-20-3	Naphthalene	2300	
87-61-6	1,2,3-Trichlorobenzene	2400	
544-10-5	1-Chlorohexane	2500	

FORM I VOA OLM03.0

0 102

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC2E6

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-26C

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0985

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/06/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1 OLM03.0

0 103

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC2E6

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-26C

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0985

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/06/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

0 104

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: AOC2E6

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-26C

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0985

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/06/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC OLM03.0

0 105

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2TB24

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-28A
Sample wt/vol: 30.1 (g/mL) G Lab File ID: S2D0958
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 9 decanted: (Y/N) N Date Extracted:12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)Ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-Methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	730	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	730	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	730	U
83-32-9	Acenaphthene	360	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2TB24

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-28A
Sample wt/vol: 30.1 (g/mL) G Lab File ID: S2D0958
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 9 decanted: (Y/N) N Date Extracted:12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	730	U
100-02-7	4-Nitrophenol	730	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	730	U
534-52-1	4,6-Dinitro-2-methylphenol	730	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	730	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenzo(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	360	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC2TB24

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-28A
Sample wt/vol: 30.1 (g/mL) G Lab File ID: S2D0958
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 9 decanted: (Y/N) N Date Extracted:12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.91	780	J
2.	UNKNOWN	8.08	190	J
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3BB3

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-07A
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0980
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3BB3

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-07A
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0980
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	*Fluorene*	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3BB3

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-07A
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0980
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3BB4

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-08A
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0981
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3BB4

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-08A
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0981
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3BB4

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-08A
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0981
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC OLM03.0

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP6

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-01D
Sample wt/vol: 30.2 (g/mL) G Lab File ID: S2D0950
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 0 decanted: (Y/N) N Date Extracted:12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/03/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	660	U
91-58-7	*2-Chloronaphthalene*	*330*	*U*
88-74-4	2-Nitroaniline	660	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	660	U
83-32-9	Acenaphthene	330	U

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP6

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-01D
Sample wt/vol: 30.2 (g/mL) G Lab File ID: S2D0950
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 0 decanted: (Y/N) N Date Extracted:12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/03/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	660	U
100-02-7	4-Nitrophenol	660	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	660	U
534-52-1	4,6-Dinitro-2-methylphenol	660	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	660	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	1100	
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3CTCP6

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-01D
Sample wt/vol: 30.2 (g/mL) G Lab File ID: S2D0950
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/03/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 3
CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	104-76-7	1-HEXANOL, 2-ETHYL-	8.50	840	NJ
2.		UNKNOWN	22.60	1100	J
3.		UNKNOWN	27.30	1000	J
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC OLM03.0

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP6RE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-01DRE
Sample wt/vol: 30.8 (g/mL) G Lab File ID: S2D1271
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/20/03
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	320	U
111-44-4	bis(2-Chloroethyl)Ether	320	U
95-57-8	2-Chlorophenol	320	U
541-73-1	1,3-Dichlorobenzene	320	U
106-46-7	1,4-Dichlorobenzene	320	U
95-50-1	1,2-Dichlorobenzene	320	U
95-48-7	2-Methylphenol	320	U
108-60-1	2,2'-oxybis(1-Chloropropane)	320	U
106-44-5	4-Methylphenol	320	U
621-64-7	N-Nitroso-di-n-propylamine	320	U
67-72-1	Hexachloroethane	320	U
98-95-3	Nitrobenzene	320	U
78-59-1	Isophorone	320	U
88-75-5	2-Nitrophenol	320	U
105-67-9	2,4-Dimethylphenol	320	U
120-83-2	2,4-Dichlorophenol	320	U
120-82-1	1,2,4-Trichlorobenzene	320	U
91-20-3	Naphthalene	320	U
106-47-8	4-Chloroaniline	320	U
111-91-1	bis(2-Chloroethoxy)methane	320	U
87-68-3	Hexachlorobutadiene	320	U
59-50-7	4-Chloro-3-Methylphenol	320	U
91-57-6	2-Methylnaphthalene	320	U
77-47-4	Hexachlorocyclopentadiene	320	U
88-06-2	2,4,6-Trichlorophenol	320	U
95-95-4	2,4,5-Trichlorophenol	650	U
91-58-7	2-Chloronaphthalene	320	U
88-74-4	2-Nitroaniline	650	U
131-11-3	Dimethylphthalate	320	U
208-96-8	Acenaphthylene	320	U
606-20-2	2,6-Dinitrotoluene	320	U
99-09-2	3-Nitroaniline	650	U
83-32-9	Acenaphthene	320	U

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP6RE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-01DRE
Sample wt/vol: 30.8 (g/mL) G Lab File ID: S2D1271
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/20/03
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	650	U
100-02-7	4-Nitrophenol	650	U
132-64-9	Dibenzofuran	320	U
121-14-2	2,4-Dinitrotoluene	320	U
84-66-2	Diethylphthalate	320	U
7005-72-3	4-Chlorophenyl-phenylether	320	U
86-73-7	Fluorene	320	U
100-01-6	4-Nitroaniline	650	U
534-52-1	4,6-Dinitro-2-methylphenol	650	U
86-30-6	N-Nitrosodiphenylamine (1)	320	U
101-55-3	4-Bromophenyl-phenylether	320	U
118-74-1	Hexachlorobenzene	320	U
87-86-5	Pentachlorophenol	650	U
85-01-8	Phenanthrene	320	U
120-12-7	Anthracene	320	U
86-74-8	Carbazole	320	U
84-74-2	Di-n-butylphthalate	320	U
206-44-0	Fluoranthene	320	U
129-00-0	Pyrene	320	U
85-68-7	Butylbenzylphthalate	320	U
91-94-1	3,3'-Dichlorobenzidine	320	U
56-55-3	Benzo(a)anthracene	320	U
218-01-9	Chrysene	320	U
117-81-7	bis(2-Ethylhexyl)phthalate	1500	
117-84-0	Di-n-octylphthalate	320	U
205-99-2	Benzo(b)fluoranthene	320	U
207-08-9	Benzo(k)fluoranthene	320	U
50-32-8	Benzo(a)pyrene	320	U
193-39-5	Indeno(1,2,3-cd)pyrene	320	U
53-70-3	Dibenzo(a,h)anthracene	320	U
191-24-2	Benzo(g,h,i)perylene	320	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3CTCP6RE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-01DRE
Sample wt/vol: 30.8 (g/mL) G Lab File ID: S2D1271
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 01/20/03
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 5 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	872-05-9	1-DECENE	9.82	580	NJ
2.	112-34-5	ETHANOL, 2-(2-BUTOXYETHOXY)-	10.04	1600	NJ
3.	124-16-3	1-BUTOXYETHOXY-2-PROPANOL	10.40	560	NJ
4.		UNKNOWN	13.72	460	J
5.		UNKNOWN	13.76	450	J
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC OLM03.0

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP7

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-02D
Sample wt/vol: 30.1 (g/mL) G Lab File ID: S2D0951
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 0 decanted: (Y/N) N Date Extracted: 12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/03/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	670	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	670	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	670	U
83-32-9	Acenaphthene	330	U

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP7

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-02D
Sample wt/vol: 30.1 (g/mL) G Lab File ID: S2D0951
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 0 decanted: (Y/N) N Date Extracted:12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/03/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	670	U
100-02-7	4-Nitrophenol	670	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	670	U
534-52-1	4,6-Dinitro-2-methylphenol	670	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	670	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	2900	
117-84-0	Di-n-octylphthalate	79	J
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3CTCP7

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-02D
Sample wt/vol: 30.1 (g/mL) G Lab File ID: S2D0951
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/03/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 6 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	8.50	1600	J
2.	UNKNOWN	16.32	570	J
3.	UNKNOWN	20.78	990	J
4.	UNKNOWN	21.53	1100	J
5.	UNKNOWN	21.99	1000	J
6.	UNKNOWN	23.52	1400	J
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP7RE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-02DRE
Sample wt/vol: 30.6 (g/mL) G Lab File ID: S2D1272
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 0 decanted: (Y/N) N Date Extracted:01/20/03
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	320	U
111-44-4	bis(2-Chloroethyl)Ether	320	U
95-57-8	2-Chlorophenol	320	U
541-73-1	1,3-Dichlorobenzene	320	U
106-46-7	1,4-Dichlorobenzene	320	U
95-50-1	1,2-Dichlorobenzene	320	U
95-48-7	2-Methylphenol	320	U
108-60-1	2,2'-oxybis(1-Chloropropane)	320	U
106-44-5	4-Methylphenol	320	U
621-64-7	N-Nitroso-di-n-propylamine	320	U
67-72-1	Hexachloroethane	320	U
98-95-3	Nitrobenzene	320	U
78-59-1	Isophorone	320	U
88-75-5	2-Nitrophenol	320	U
105-67-9	2,4-Dimethylphenol	320	U
120-83-2	2,4-Dichlorophenol	320	U
120-82-1	1,2,4-Trichlorobenzene	320	U
91-20-3	Naphthalene	320	U
106-47-8	4-Chloroaniline	320	U
111-91-1	bis(2-Chloroethoxy)methane	320	U
87-68-3	Hexachlorobutadiene	320	U
59-50-7	4-Chloro-3-Methylphenol	320	U
91-57-6	2-Methylnaphthalene	320	U
77-47-4	Hexachlorocyclopentadiene	320	U
88-06-2	2,4,6-Trichlorophenol	320	U
95-95-4	2,4,5-Trichlorophenol	660	U
91-58-7	2-Chloronaphthalene	320	U
88-74-4	2-Nitroaniline	660	U
131-11-3	Dimethylphthalate	320	U
208-96-8	Acenaphthylene	320	U
606-20-2	2,6-Dinitrotoluene	320	U
99-09-2	3-Nitroaniline	660	U
83-32-9	Acenaphthene	320	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP7RE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-02DRE
Sample wt/vol: 30.6 (g/mL) G Lab File ID: S2D1272
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 0 decanted: (Y/N) N Date Extracted:01/20/03
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	660	U
100-02-7	4-Nitrophenol	660	U
132-64-9	Dibenzofuran	320	U
121-14-2	2,4-Dinitrotoluene	320	U
84-66-2	Diethylphthalate	320	U
7005-72-3	4-Chlorophenyl-phenylether	320	U
86-73-7	Fluorene	320	U
100-01-6	4-Nitroaniline	660	U
534-52-1	4,6-Dinitro-2-methylphenol	660	U
86-30-6	N-Nitrosodiphenylamine (1)	320	U
101-55-3	4-Bromophenyl-phenylether	320	U
118-74-1	Hexachlorobenzene	320	U
87-86-5	Pentachlorophenol	660	U
85-01-8	Phenanthrene	320	U
120-12-7	Anthracene	320	U
86-74-8	Carbazole	320	U
84-74-2	Di-n-butylphthalate	320	U
206-44-0	Fluoranthene	320	U
129-00-0	Pyrene	320	U
85-68-7	Butylbenzylphthalate	320	U
91-94-1	3,3'-Dichlorobenzidine	320	U
56-55-3	Benzo(a)anthracene	320	U
218-01-9	Chrysene	320	U
117-81-7	bis(2-Ethylhexyl)phthalate	2000	
117-84-0	Di-n-octylphthalate	320	U
205-99-2	Benzo(b)fluoranthene	320	U
207-08-9	Benzo(k)fluoranthene	320	U
50-32-8	Benzo(a)pyrene	320	U
193-39-5	Indeno(1,2,3-cd)pyrene	320	U
53-70-3	Dibenzo(a,h)anthracene	320	U
191-24-2	Benzo(g,h,i)perylene	320	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3CTCP7RE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-02DRE

Sample wt/vol: 30.6 (g/mL) G Lab File ID: S2D1272

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted:01/20/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.87	1800	J
2.	UNKNOWN	9.24	360	J
3.	UNKNOWN	9.44	280	J
4.	UNKNOWN	9.60	300	J
5.	UNKNOWN	9.73	310	J
6.	UNKNOWN	9.81	270	J
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP8

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-03D

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S2D0952

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 0 decanted: (Y/N) N Date Extracted:12/24/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	670	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	670	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	670	U
83-32-9	Acenaphthene	330	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP8

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-03D

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S2D0952

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 0 decanted: (Y/N) N Date Extracted:12/24/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	670	U
100-02-7	4-Nitrophenol	670	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	670	U
534-52-1	4,6-Dinitro-2-methylphenol	670	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	670	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	360	
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3CTCP8

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-03D

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S2D0952

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/24/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	20.06	890	J
2.	UNKNOWN	20.81	1000	J
3.	UNKNOWN	21.54	1700	J
4.	UNKNOWN	21.69	880	J
5.	UNKNOWN	22.23	1300	J
6.	UNKNOWN	22.39	800	J
7.	UNKNOWN	22.60	950	J
8.	UNKNOWN	23.53	1900	J
9.	36728-72-0	28-NOR-17.BETA.(H)-HOPANE	27.32	2100	NJ
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP8RE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-03DRE
Sample wt/vol: 30.5 (g/mL) G Lab File ID: S2D1273
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/20/03
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	320	U
111-44-4	bis(2-Chloroethyl)Ether	320	U
95-57-8	2-Chlorophenol	320	U
541-73-1	1,3-Dichlorobenzene	320	U
106-46-7	1,4-Dichlorobenzene	320	U
95-50-1	1,2-Dichlorobenzene	320	U
95-48-7	2-Methylphenol	320	U
108-60-1	2,2'-oxybis(1-Chloropropane)	320	U
106-44-5	4-Methylphenol	320	U
621-64-7	N-Nitroso-di-n-propylamine	320	U
67-72-1	Hexachloroethane	320	U
98-95-3	Nitrobenzene	320	U
78-59-1	Isophorone	320	U
88-75-5	2-Nitrophenol	320	U
105-67-9	2,4-Dimethylphenol	320	U
120-83-2	2,4-Dichlorophenol	320	U
120-82-1	1,2,4-Trichlorobenzene	320	U
91-20-3	Naphthalene	320	U
106-47-8	4-Chloroaniline	320	U
111-91-1	bis(2-Chloroethoxy)methane	320	U
87-68-3	Hexachlorobutadiene	320	U
59-50-7	4-Chloro-3-Methylphenol	320	U
91-57-6	2-Methylnaphthalene	320	U
77-47-4	Hexachlorocyclopentadiene	320	U
88-06-2	2,4,6-Trichlorophenol	320	U
95-95-4	2,4,5-Trichlorophenol	660	U
91-58-7	2-Chloronaphthalene	320	U
88-74-4	2-Nitroaniline	660	U
131-11-3	Dimethylphthalate	320	U
208-96-8	Acenaphthylene	320	U
606-20-2	2,6-Dinitrotoluene	320	U
99-09-2	3-Nitroaniline	660	U
83-32-9	Acenaphthene	320	U

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP8RE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-03DRE
Sample wt/vol: 30.5 (g/mL) G Lab File ID: S2D1273
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/20/03
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	660	U
100-02-7	4-Nitrophenol	660	U
132-64-9	Dibenzofuran	320	U
121-14-2	2,4-Dinitrotoluene	320	U
84-66-2	Diethylphthalate	320	U
7005-72-3	4-Chlorophenyl-phenylether	320	U
86-73-7	Fluorene	320	U
100-01-6	4-Nitroaniline	660	U
534-52-1	4,6-Dinitro-2-methylphenol	660	U
86-30-6	N-Nitrosodiphenylamine (1)	320	U
101-55-3	4-Bromophenyl-phenylether	320	U
118-74-1	Hexachlorobenzene	320	U
87-86-5	Pentachlorophenol	660	U
85-01-8	Phenanthrene	320	U
120-12-7	*Anthracene*	320	U
86-74-8	Carbazole	320	U
84-74-2	Di-n-butylphthalate	320	U
206-44-0	Fluoranthene	320	U
129-00-0	Pyrene	320	U
85-68-7	Butylbenzylphthalate	320	U
91-94-1	3,3'-Dichlorobenzidine	320	U
56-55-3	Benzo(a)anthracene	320	U
218-01-9	Chrysene	320	U
117-81-7	bis(2-Ethylhexyl)phthalate	220	J
117-84-0	Di-n-octylphthalate	320	U
205-99-2	Benzo(b)fluoranthene	320	U
207-08-9	Benzo(k)fluoranthene	320	U
50-32-8	Benzo(a)pyrene	320	U
193-39-5	Indeno(1,2,3-cd)pyrene	320	U
53-70-3	Dibenzo(a,h)anthracene	320	U
191-24-2	Benzo(g,h,i)perylene	320	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3CTCP8RE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-03DRE
Sample wt/vol: 30.5 (g/mL) G Lab File ID: S2D1273
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 01/20/03
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 8 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	19.38	1000	J
2.	UNKNOWN	19.57	810	J
3.	UNKNOWN	20.09	810	J
4.	UNKNOWN	20.28	900	J
5.	UNKNOWN	20.86	2400	J
6.	UNKNOWN	21.01	1500	J
7.	UNKNOWN	21.70	1600	J
8.	UNKNOWN	22.22	2700	J
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM03.0

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSD5A45

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-11A
Sample wt/vol: 30.4 (g/mL) G Lab File ID: S2D0955
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 9 decanted: (Y/N) N Date Extracted: 12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)Ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-Methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	730	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	730	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	730	U
83-32-9	Acenaphthene	360	U

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSD5A45

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-11A
Sample wt/vol: 30.4 (g/mL) G Lab File ID: S2D0955
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 9 decanted: (Y/N) N Date Extracted: 12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	730	U
100-02-7	4-Nitrophenol	730	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	730	U
534-52-1	4,6-Dinitro-2-methylphenol	730	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	730	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenzo(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	360	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3SSD5A45

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-11A
Sample wt/vol: 30.4 (g/mL) G Lab File ID: S2D0955
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 9 decanted: (Y/N) N Date Extracted: 12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.91	790	J
2. 111-90-0	ETHANOL, 2-(2-ETHOXYETHOXY)-	8.08	190	NJ
3.	UNKNOWN	29.23	210	J
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSD5B45

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-12A
Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D0956
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 10 decanted: (Y/N) N Date Extracted: 12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)Ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
111-91-1	bis(2-Chloroethoxy)methane	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-Methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	740	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	740	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	740	U
83-32-9	Acenaphthene	370	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSD5B45

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-12A
Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D0956
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 10 decanted: (Y/N) N Date Extracted: 12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	740	U
100-02-7	4-Nitrophenol	740	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U
100-01-6	4-Nitroaniline	740	U
534-52-1	4,6-Dinitro-2-methylphenol	740	U
86-30-6	N-Nitrosodiphenylamine (1)	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	740	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-butylphthalate	370	U
206-44-0	Fluoranthene	370	U
129-00-0	Pyrene	370	U
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	370	U
218-01-9	Chrysene	370	U
117-81-7	bis(2-Ethylhexyl)phthalate	370	U
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	370	U
207-08-9	Benzo(k)fluoranthene	370	U
50-32-8	Benzo(a)pyrene	370	U
193-39-5	Indeno(1,2,3-cd)pyrene	370	U
53-70-3	Dibenzo(a,h)anthracene	370	U
191-24-2	Benzo(g,h,i)perylene	370	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3SSD5B45

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-12A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D0956

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 10 decanted: (Y/N) N Date Extracted:12/24/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.92	930	J
2.		UNKNOWN	8.08	250	J
3.		UNKNOWN	10.76	150	J
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB4945

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-13A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S2D0957

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 11 decanted: (Y/N) N Date Extracted:12/24/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)Ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
111-91-1	bis(2-Chloroethoxy)methane	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-Methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	750	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	750	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	750	U
83-32-9	Acenaphthene	370	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB4945

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-13A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S2D0957

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 11 decanted: (Y/N) N Date Extracted:12/24/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	750	U
100-02-7	4-Nitrophenol	750	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U
100-01-6	4-Nitroaniline	750	U
534-52-1	4,6-Dinitro-2-methylphenol	750	U
86-30-6	N-Nitrosodiphenylamine (1)	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	750	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-butylphthalate	370	U
206-44-0	Fluoranthene	370	U
129-00-0	Pyrene	370	U
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	370	U
218-01-9	Chrysene	370	U
117-81-7	bis(2-Ethylhexyl)phthalate	370	U
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	370	U
207-08-9	Benzo(k)fluoranthene	370	U
50-32-8	Benzo(a)pyrene	370	U
193-39-5	Indeno(1,2,3-cd)pyrene	370	U
53-70-3	Dibenzo(a,h)anthracene	370	U
191-24-2	Benzo(g,h,i)perylene	370	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3SSTB4945

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-13A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S2D0957

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 11 decanted: (Y/N) N Date Extracted:12/24/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.92	1100	J
2.		UNKNOWN	8.08	230	J
3.		UNKNOWN	10.76	170	J
4.		UNKNOWN	24.48	170	J
5.		UNKNOWN	29.24	170	J
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB5312

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-05C
Sample wt/vol: 30.6 (g/mL) G Lab File ID: S2D0953
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 7 decanted: (Y/N) N Date Extracted: 12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)Ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-Methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	710	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	710	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	710	U
83-32-9	Acenaphthene	350	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB5312

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-05C
Sample wt/vol: 30.6 (g/mL) G Lab File ID: S2D0953
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 7 decanted: (Y/N) N Date Extracted: 12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	710	U
100-02-7	4-Nitrophenol	710	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroanilline	710	U
534-52-1	4,6-Dinitro-2-methylphenol	710	U
86-30-6	N-Nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	710	U
85-01-8	Phenanthrene	350	U
120-12-7	*Anthracene*	*350*	*U*
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	350	U
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3SSTB5312

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-05C
Sample wt/vol: 30.6 (g/mL) G Lab File ID: S2D0953
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 7 decanted: (Y/N) N Date Extracted: 12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	RST. CONC.	Q
1.		UNKNOWN	7.91	750	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB5312RE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-05CRE
Sample wt/vol: 30.9 (g/mL) G Lab File ID: S2D1274
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 7 decanted: (Y/N) N Date Extracted: 01/20/03
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)Ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	2,2'-oxybis(1-Chloropropane)	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-Methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
99-09-2	3-Nitroaniline	700	U
83-32-9	Acenaphthene	340	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB5312RE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-05CRE
Sample wt/vol: 30.9 (g/mL) G Lab File ID: S2D1274
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 7 decanted: (Y/N) N Date Extracted: 01/20/03
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	700	U
100-02-7	4-Nitrophenol	700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	700	U
534-52-1	4,6-Dinitro-2-methylphenol	700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
86-74-8	Carbazole	340	U
84-74-2	Di-n-butylphthalate	340	U
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	340	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-octylphthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3SSTB5312RE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-05CRE
Sample wt/vol: 30.9 (g/mL) G Lab File ID: S2D1274
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 7 decanted: (Y/N) N Date Extracted: 01/20/03
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	23.73	150	J
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB5402

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL, Lab Sample ID: A1905-06C
Sample wt/vol: 30.3 (g/mL) G Lab File ID: S2D0954
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 9 decanted: (Y/N) N Date Extracted: 12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)Ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-Methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	730	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	730	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	730	U
83-32-9	Acenaphthene	360	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB5402

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-06C
Sample wt/vol: 30.3 (g/mL) G Lab File ID: S2D0954
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 9 decanted: (Y/N) N Date Extracted: 12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	730	U
100-02-7	4-Nitrophenol	730	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	730	U
534-52-1	4,6-Dinitro-2-methylphenol	730	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	730	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenzo(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	360	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3SSTB5402

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-06C
Sample wt/vol: 30.3 (g/mL) G Lab File ID: S2D0954
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 9 decanted: (Y/N) N Date Extracted: 12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 4
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.91	800	J
2.		UNKNOWN	8.08	290	J
3.		UNKNOWN	10.76	160	J
4.		UNKNOWN	24.48	150	J
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB5402RE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-06CRE
Sample wt/vol: 30.2 (g/mL) G Lab File ID: S2D1275
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 9 decanted: (Y/N) N Date Extracted: 01/20/03
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)Ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-Methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	730	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	730	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	730	U
83-32-9	Acenaphthene	360	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB5402RE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-06CRE
Sample wt/vol: 30.2 (g/mL) G Lab File ID: S2D1275
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 9 decanted: (Y/N) N Date Extracted: 01/20/03
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	730	U
100-02-7	4-Nitrophenol	730	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	730	U
534-52-1	4,6-Dinitro-2-methylphenol	730	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	730	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenzo(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	360	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3SSTB5402RE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-06CRE
Sample wt/vol: 30.2 (g/mL) G Lab File ID: S2D1275
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 9 decanted: (Y/N) N Date Extracted: 01/20/03
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0
CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5E7

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-14D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0982
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5E7

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-14D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0982
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC5E7

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-14D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0982
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5WTB62W

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-16R
Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S2D0983
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 500(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5WTB62W

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-16E
Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S2D0983
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 500(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	7	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	BJ
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC5WTB62W

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-16E
Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S2D0983
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 500(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 5 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 142-62-1	HEXANOIC ACID	7.57	8	NJ
2.	UNKNOWN	9.51	4	J
3.	UNKNOWN	10.29	6	J
4. 112-05-0	NONANOIC ACID	11.49	8	NJ
5. 84-69-5	1,2-BENZENEDICARBOXYLIC ACID	17.74	24	NJ
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC7WTB65GW

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-18E
Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S2D0984
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 500(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC7WTB65GW

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-18E
Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S2D0984
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 500(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	1	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: AOC7WTB65GW

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-18E

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S2D0984

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 12/26/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/06/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	84-64-0	1,2-BENZENEDICARBOXYLIC ACID	17.73	21	NJ
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: S2ALCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: LCS-5197

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D1267

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/17/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
108-95-2	Phenol	1400	
111-44-4	bis(2-Chloroethyl)Ether	1300	
95-57-8	2-Chlorophenol	1400	
541-73-1	1,3-Dichlorobenzene	1300	
106-46-7	1,4-Dichlorobenzene	1300	
95-50-1	1,2-Dichlorobenzene	1400	
95-48-7	2-Methylphenol	1500	
108-60-1	2,2'-oxybis(1-Chloropropane)	1300	
106-44-5	4-Methylphenol	1500	
621-64-7	N-Nitroso-di-n-propylamine	1600	
67-72-1	Hexachloroethane	1300	
98-95-3	Nitrobenzene	1400	
78-59-1	Isophorone	1400	
88-75-5	2-Nitrophenol	1300	
105-67-9	2,4-Dimethylphenol	1200	
120-83-2	2,4-Dichlorophenol	1400	
120-82-1	1,2,4-Trichlorobenzene	1300	
91-20-3	Naphthalene	1400	
106-47-8	4-Chloroaniline	380	
111-91-1	bis(2-Chloroethoxy)methane	1400	
87-68-3	Hexachlorobutadiene	1300	
59-50-7	4-Chloro-3-Methylphenol	1500	
91-57-6	2-Methylnaphthalene	1300	
77-47-4	Hexachlorocyclopentadiene	1400	
88-06-2	2,4,6-Trichlorophenol	1400	
95-95-4	2,4,5-Trichlorophenol	1400	
91-58-7	2-Chloronaphthalene	1400	
88-74-4	2-Nitroaniline	1500	
131-11-3	Dimethylphthalate	1500	
208-96-8	Acenaphthylene	1400	
606-20-2	2,6-Dinitrotoluene	1500	
99-09-2	3-Nitroaniline	720	
83-32-9	Acenaphthene	1400	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: S2ALCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: LCS-5197

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D1267

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/17/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	1500	
100-02-7	4-Nitrophenol	1500	
132-64-9	Dibenzofuran	1400	
121-14-2	2,4-Dinitrotoluene	1500	
84-66-2	Diethylphthalate	1500	
7005-72-3	4-Chlorophenyl-phenylether	1500	
86-73-7	Fluorene	1500	
100-01-6	4-Nitroaniline	1200	
534-52-1	4,6-Dinitro-2-methylphenol	1500	
86-30-6	N-Nitrosodiphenylamine (1)	1900	
101-55-3	4-Bromophenyl-phenylether	1500	
118-74-1	Hexachlorobenzene	1500	
87-86-5	Pentachlorophenol	1400	
85-01-8	Phenanthrene	1600	
120-12-7	Anthracene	1600	
86-74-8	Carbazole	1700	
84-74-2	Di-n-butylphthalate	1600	
206-44-0	Fluoranthene	1500	
129-00-0	Pyrene	1600	
85-68-7	Butylbenzylphthalate	1700	
91-94-1	3,3'-Dichlorobenzidine	420	
56-55-3	Benzo(a)anthracene	1500	
218-01-9	Chrysene	1500	
117-81-7	bis(2-Ethylhexyl)phthalate	1600	
117-84-0	Di-n-octylphthalate	1500	
205-99-2	Benzo(b)fluoranthene	1400	
207-08-9	Benzo(k)fluoranthene	1800	
50-32-8	Benzo(a)pyrene	1500	
193-39-5	Indeno(1,2,3-cd)pyrene	1300	
53-70-3	Dibenzo(a,h)anthracene	1500	
191-24-2	Benzo(g,h,i)perylene	1500	

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: S2ALCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: LCS-5197

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D1267

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 01/17/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 11

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	110-86-1	PYRIDINE	3.41	730	NJ
2.	123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	5.04	19000	NJ
3.	1122-85-6	CYANIC ACID, PHENYL ESTER	9.01	790	NJ
4.	20925-27-3	4-AMINO-2-CHLOROBENZONITRILE	11.50	1000	NJ
5.	90-12-0	NAPHTHALENE, 1-METHYL-	11.77	1500	NJ
6.	100-25-4	BENZENE, 1,4-DINITRO-	11.08	560	NJ
7.	99-65-0	BENZENE, 1,3-DINITRO-	13.23	680	NJ
8.	208-96-8	ACENAPHTHYLENE	13.38	1800	NJ
9.	58-90-2	PHENOL, 2,3,4,6-TETRACHLORO-	14.26	810	NJ
10.	4901-51-3	PHENOL, 2,3,4,5-TETRACHLORO-	14.34	860	NJ
11.	103-23-1	HEXANEDIOIC ACID, BIS(2-ETHY	21.18	660	NJ
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S2ELCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: LCS-4910
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0819
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/26/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	14	
111-44-4	bis(2-Chloroethyl)Ether	35	
95-57-8	2-Chlorophenol	34	
541-73-1	1,3-Dichlorobenzene	38	
106-46-7	1,4-Dichlorobenzene	38	
95-50-1	1,2-Dichlorobenzene	39	
95-48-7	2-Methylphenol	32	
108-60-1	2,2'-oxybis(1-Chloropropane)	38	
106-44-5	4-Methylphenol	27	
621-64-7	N-Nitroso-di-n-propylamine	43	
67-72-1	Hexachloroethane	38	
98-95-3	Nitrobenzene	37	
78-59-1	Isophorone	42	
88-75-5	2-Nitrophenol	36	
105-67-9	2,4-Dimethylphenol	37	
120-83-2	2,4-Dichlorophenol	38	
120-82-1	1,2,4-Trichlorobenzene	39	
91-20-3	Naphthalene	40	B
106-47-8	4-Chloroaniline	15	
111-91-1	bis(2-Chloroethoxy)methane	39	
87-68-3	Hexachlorobutadiene	39	
59-50-7	4-Chloro-3-Methylphenol	40	
91-57-6	2-Methylnaphthalene	40	B
77-47-4	Hexachlorocyclopentadiene	40	
88-06-2	2,4,6-Trichlorophenol	40	
95-95-4	2,4,5-Trichlorophenol	41	
91-58-7	2-Chloronaphthalene	41	
88-74-4	2-Nitroaniline	39	
131-11-3	Dimethylphthalate	41	
208-96-8	Acenaphthylene	42	
606-20-2	2,6-Dinitrotoluene	41	
99-09-2	3-Nitroaniline	37	
83-32-9	Acenaphthene	43	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S2ELCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: LCS-4910
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0819
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/26/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	31	
100-02-7	4-Nitrophenol	13	J
132-64-9	Dibenzofuran	40	
121-14-2	2,4-Dinitrotoluene	41	
84-66-2	Diethylphthalate	42	
7005-72-3	4-Chlorophenyl-phenylether	42	
86-73-7	Fluorene	43	
100-01-6	4-Nitroaniline	42	
534-52-1	4,6-Dinitro-2-methylphenol	37	
86-30-6	N-Nitrosodiphenylamine (1)	54	
101-55-3	4-Bromophenyl-phenylether	40	
118-74-1	Hexachlorobenzene	43	
87-86-5	Pentachlorophenol	37	
85-01-8	Phenanthrene	43	
120-12-7	Anthracene	43	
86-74-8	Carbazole	55	
84-74-2	Di-n-butylphthalate	42	
206-44-0	Fluoranthene	41	
129-00-0	Pyrene	41	
85-68-7	Butylbenzylphthalate	40	
91-94-1	3,3'-Dichlorobenzidine	37	
56-55-3	Benzo(a)anthracene	41	
218-01-9	Chrysene	37	
117-81-7	bis(2-Ethylhexyl)phthalate	46	B
117-84-0	Di-n-octylphthalate	35	
205-99-2	Benzo(b)fluoranthene	32	
207-08-9	Benzo(k)fluoranthene	40	
50-32-8	Benzo(a)pyrene	33	
193-39-5	Indeno(1,2,3-cd)pyrene	30	
53-70-3	Dibenzo(a,h)anthracene	32	
191-24-2	Benzo(g,h,i)perylene	32	

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
S2KLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: LCS-4910
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0819
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/26/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 7 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	91-57-6	NAPHTHALENE, 2-METHYL-	12.89	41	NJ
2.	100-25-4	BENZENE, 1,4-DINITRO-	14.18	14	NJ
3.	99-65-0	BENZENE, 1,3-DINITRO-	14.33	15	NJ
4.	528-29-0	BENZENE, 1,2-DINITRO-	14.50	14	NJ
5.	935-95-5	PHENOL, 2,3,5,6-TETRACHLORO-	15.40	22	NJ
6.	58-90-2	PHENOL, 2,3,4,6-TETRACHLORO-	15.48	24	NJ
7.	103-23-1	HEXANEDIOIC ACID, BIS(2-ETHY	22.31	15	NJ
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S2FLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: LCS-4921
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0842
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	11	
111-44-4	bis(2-Chloroethyl)Ether	35	
95-57-8	2-Chlorophenol	34	
541-73-1	1,3-Dichlorobenzene	35	
106-46-7	1,4-Dichlorobenzene	35	
95-50-1	1,2-Dichlorobenzene	36	
95-48-7	2-Methylphenol	30	
108-60-1	2,2'-oxybis(1-Chloropropane)	37	
106-44-5	4-Methylphenol	25	
621-64-7	N-Nitroso-di-n-propylamine	39	
67-72-1	Hexachloroethane	34	
98-95-3	Nitrobenzene	36	
78-59-1	Isophorone	40	
88-75-5	2-Nitrophenol	36	
105-67-9	2,4-Dimethylphenol	34	
120-83-2	2,4-Dichlorophenol	37	
120-82-1	1,2,4-Trichlorobenzene	36	
91-20-3	Naphthalene	38	
106-47-8	4-Chloroaniline	13	
111-91-1	bis(2-Chloroethoxy)methane	38	
87-68-3	Hexachlorobutadiene	35	
59-50-7	4-Chloro-3-Methylphenol	39	
91-57-6	2-Methylnaphthalene	39	
77-47-4	Hexachlorocyclopentadiene	36	
88-06-2	2,4,6-Trichlorophenol	39	
95-95-4	2,4,5-Trichlorophenol	42	
91-58-7	2-Chloronaphthalene	40	
88-74-4	2-Nitroaniline	42	
131-11-3	Dimethylphthalate	42	
208-96-8	Acenaphthylene	42	
606-20-2	2,6-Dinitrotoluene	42	
99-09-2	3-Nitroaniline	41	
83-32-9	Acenaphthene	43	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S2FLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: LCS-4921
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0842
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	38	
100-02-7	4-Nitrophenol	14	J
132-64-9	Dibenzofuran	42	
121-14-2	2,4-Dinitrotoluene	46	
84-66-2	Diethylphthalate	45	
7005-72-3	4-Chlorophenyl-phenylether	45	
86-73-7	Fluorene	46	
100-01-6	4-Nitroaniline	53	
534-52-1	4,6-Dinitro-2-methylphenol	39	
86-30-6	N-Nitrosodiphenylamine (1)	54	
101-55-3	4-Bromophenyl-phenylether	40	
118-74-1	Hexachlorobenzene	42	
87-86-5	Pentachlorophenol	39	
85-01-8	Phenanthrene	44	
120-12-7	Anthracene	44	
86-74-8	Carbazole	65	
84-74-2	Di-n-butylphthalate	44	
206-44-0	Fluoranthene	46	
129-00-0	Pyrene	38	
85-68-7	Butylbenzylphthalate	40	
91-94-1	3,3'-Dichlorobenzidine	39	
56-55-3	Benzo(a)anthracene	43	
218-01-9	Chrysene	39	
117-81-7	bis(2-Ethylhexyl)phthalate	46	B
117-84-0	Di-n-octylphthalate	34	
205-99-2	Benzo(b)fluoranthene	34	
207-08-9	Benzo(k)fluoranthene	39	
50-32-8	Benzo(a)pyrene	35	
193-39-5	Indeno(1,2,3-cd)pyrene	41	
53-70-3	Dibenzo(a,h)anthracene	37	
191-24-2	Benzo(g,h,i)perylene	37	

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
S2FLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: LCS-4921
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0842
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 7 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 90-12-0	NAPHTHALENE, 1-METHYL-	12.86	38	NJ
2. 100-25-4	BENZENE, 1,4-DINITRO-	14.15	15	NJ
3. 99-65-0	BENZENE, 1,3-DINITRO-	14.29	16	NJ
4. 528-29-0	BENZENE, 1,2-DINITRO-	14.46	16	NJ
5. 58-90-2	PHENOL, 2,3,4,6-TETRACHLORO-	15.35	24	NJ
6. 58-90-2	PHENOL, 2,3,4,6-TETRACHLORO-	15.45	26	NJ
7. 103-23-1	HEXANEDIOIC ACID, BIS(2-ETHY	22.26	14	NJ
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S2ULCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: LCS-4928
Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D1207
Level: (low/med) LOW Date Received: _____
% Moisture: 0 decanted: (Y/N) N Date Extracted:12/27/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/18/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1200	
111-44-4	bis(2-Chloroethyl)Ether	1100	
95-57-8	2-Chlorophenol	1200	
541-73-1	1,3-Dichlorobenzene	1000	
106-46-7	1,4-Dichlorobenzene	1000	
95-50-1	1,2-Dichlorobenzene	1100	
95-48-7	2-Methylphenol	1200	
108-60-1	2,2'-oxybis(1-Chloropropane)	1100	
106-44-5	4-Methylphenol	1200	
621-64-7	N-Nitroso-di-n-propylamine	1300	
67-72-1	Hexachloroethane	1000	
98-95-3	Nitrobenzene	1000	
78-59-1	Isophorone	1200	
88-75-5	2-Nitrophenol	1000	
105-67-9	2,4-Dimethylphenol	1000	
120-83-2	2,4-Dichlorophenol	1100	
120-82-1	1,2,4-Trichlorobenzene	1000	
91-20-3	Naphthalene	1100	
106-47-8	4-Chloroaniline	120	J
111-91-1	bis(2-Chloroethoxy)methane	1100	
87-68-3	Hexachlorobutadiene	1000	
59-50-7	4-Chloro-3-Methylphenol	1200	
91-57-6	2-Methylnaphthalene	1100	
77-47-4	Hexachlorocyclopentadiene	670	
88-06-2	2,4,6-Trichlorophenol	1100	
95-95-4	2,4,5-Trichlorophenol	1200	
91-58-7	2-Chloronaphthalene	1100	
88-74-4	2-Nitroaniline	1100	
131-11-3	Dimethylphthalate	1200	
208-96-8	Acenaphthylene	1100	
606-20-2	2,6-Dinitrotoluene	1200	
99-09-2	3-Nitroaniline	460	J
83-32-9	Acenaphthene	1100	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S2ULCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: LCS-4928
Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D1207
Level: (low/med) LOW Date Received: _____
% Moisture: 0 decanted: (Y/N) N Date Extracted:12/27/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/18/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1400	
100-02-7	4-Nitrophenol	1100	
132-64-9	Dibenzofuran	1100	
121-14-2	2,4-Dinitrotoluene	1200	
84-66-2	Diethylphthalate	1200	
7005-72-3	4-Chlorophenyl-phenylether	1200	
86-73-7	Fluorene	1200	
100-01-6	4-Nitroaniline	820	
534-52-1	4,6-Dinitro-2-methylphenol	1300	
86-30-6	N-Nitrosodiphenylamine (1)	1400	
101-55-3	4-Bromophenyl-phenylether	1100	
118-74-1	Hexachlorobenzene	1200	
87-86-5	Pentachlorophenol	1200	
85-01-8	Phenanthrene	1200	
120-12-7	Anthracene	1000	
86-74-8	Carbazole	1300	
84-74-2	Di-n-butylphthalate	1200	
206-44-0	Fluoranthene	1200	
129-00-0	Pyrene	1200	
85-68-7	Butylbenzylphthalate	1300	
91-94-1	3,3'-Dichlorobenzidine	130	J
56-55-3	Benzo(a)anthracene	1200	
218-01-9	Chrysene	1200	
117-81-7	bis(2-Ethylhexyl)phthalate	1200	
117-84-0	Di-n-octylphthalate	1300	
205-99-2	Benzo(b)fluoranthene	1300	
207-08-9	Benzo(k)fluoranthene	1500	
50-32-8	Benzo(a)pyrene	1100	
193-39-5	Indeno(1,2,3-cd)pyrene	1200	
53-70-3	Dibenzo(a,h)anthracene	1300	
191-24-2	Benzo(g,h,i)perylene	1300	

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
S2ULCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: LCS-4928

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D1207

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 12/27/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/18/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 13 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	625-33-2	3-PENTEN-2-ONE	3.52	480	NJ
2.		UNKNOWN	3.69	230	J
3.	141-79-7	3-PENTEN-2-ONE, 4-METHYL-	4.45	5900	NJ
4.		UNKNOWN	4.78	1600	J
5.	3031-75-2	HYDROPEROXIDE, 1-METHYLETHYL	4.92	1500	NJ
6.	3142-66-3	3-HYDROXY-2-PENTANONE	5.38	81000	NJ
7.		UNKNOWN	6.40	3900	J
8.	90-12-0	NAPHTHALENE, 1-METHYL-	11.96	1100	NJ
9.	100-25-4	BENZENE, 1,4-DINITRO-	13.27	460	NJ
10.	99-65-0	BENZENE, 1,3-DINITRO-	13.41	520	NJ
11.	935-95-5	PHENOL, 2,3,5,6-TETRACHLORO-	14.45	700	NJ
12.	58-90-2	PHENOL, 2,3,4,6-TETRACHLORO-	14.54	710	NJ
13.	103-23-1	HEXANEDIOIC ACID, BIS(2-ETHY	21.37	620	NJ
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S2ULCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: LCSD-4928

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D1208

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 12/27/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/18/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1100	
111-44-4	bis(2-Chloroethyl)Ether	1000	
95-57-8	2-Chlorophenol	1000	
541-73-1	1,3-Dichlorobenzene	990	
106-46-7	1,4-Dichlorobenzene	970	
95-50-1	1,2-Dichlorobenzene	1000	
95-48-7	2-Methylphenol	1000	
108-60-1	2,2'-oxybis(1-Chloropropane)	1000	
106-44-5	4-Methylphenol	1100	
621-64-7	N-Nitroso-di-n-propylamine	1200	
67-72-1	Hexachloroethane	980	
98-95-3	Nitrobenzene	1000	
78-59-1	Isophorone	1100	
88-75-5	2-Nitrophenol	980	
105-67-9	2,4-Dimethylphenol	560	
120-83-2	2,4-Dichlorophenol	1100	
120-82-1	1,2,4-Trichlorobenzene	1000	
91-20-3	Naphthalene	1000	
106-47-8	4-Chloroaniline	260	J
111-91-1	bis(2-Chloroethoxy)methane	1000	
87-68-3	Hexachlorobutadiene	980	
59-50-7	4-Chloro-3-Methylphenol	1100	
91-57-6	2-Methylnaphthalene	1000	
77-47-4	Hexachlorocyclopentadiene	530	
88-06-2	2,4,6-Trichlorophenol	1000	
95-95-4	2,4,5-Trichlorophenol	1100	
91-58-7	2-Chloronaphthalene	1100	
88-74-4	2-Nitroaniline	1100	
131-11-3	Dimethylphthalate	1100	
208-96-8	Acenaphthylene	330	
606-20-2	2,6-Dinitrotoluene	1100	
99-09-2	3-Nitroaniline	790	
83-32-9	Acenaphthene	1100	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S2ULCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: LCSD-4928

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D1208

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 12/27/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/18/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1300	
100-02-7	4-Nitrophenol	1100	
132-64-9	Dibenzofuran	1100	
121-14-2	2,4-Dinitrotoluene	1200	
84-66-2	Diethylphthalate	1200	
7005-72-3	4-Chlorophenyl-phenylether	1100	
86-73-7	Fluorene	1100	
100-01-6	4-Nitroaniline	930	
534-52-1	4,6-Dinitro-2-methylphenol	1200	
86-30-6	N-Nitrosodiphenylamine (1)	1300	
101-55-3	4-Bromophenyl-phenylether	1100	
118-74-1	Hexachlorobenzene	1100	
87-86-5	Pentachlorophenol	1100	
85-01-8	Phenanthrene	1200	
120-12-7	Anthracene	1000	
86-74-8	Carbazole	1300	
84-74-2	Di-n-butylphthalate	1200	
206-44-0	Fluoranthene	1200	
129-00-0	Pyrene	1200	
85-68-7	Butylbenzylphthalate	1300	
91-94-1	3,3'-Dichlorobenzidine	520	
56-55-3	Benzo(a)anthracene	1200	
218-01-9	Chrysene	1200	
117-81-7	bis(2-Ethylhexyl)phthalate	1200	
117-84-0	Di-n-octylphthalate	1200	
205-99-2	Benzo(b)fluoranthene	1300	
207-08-9	Benzo(k)fluoranthene	1400	
50-32-8	Benzo(a)pyrene	1200	
193-39-5	Indeno(1,2,3-cd)pyrene	1200	
53-70-3	Dibenzo(a,h)anthracene	1300	
191-24-2	Benzo(g,h,i)perylene	1300	

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
S2ULCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: LCSD-4928

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D1208

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 12/27/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/18/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 14 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	141-79-7	3-PENTEN-2-ONE, 4-METHYL-	4.46	190	NJ
2.		UNKNOWN	4.79	1600	J
3.	3031-75-2	HYDROPEROXIDE, 1-METHYLETHYL	4.90	1800	NJ
4.	3142-66-3	3-HYDROXY-2-PENTANONE	5.38	84000	NJ
5.		UNKNOWN	6.41	4700	J
6.	10203-30-2	3-DODECANOL	10.29	160	NJ
7.	103-70-8	FORMAMIDE, N-PHENYL-	11.90	220	NJ
8.	90-12-0	NAPHTHALENE, 1-METHYL-	11.96	1000	NJ
9.	100-25-4	BENZENE, 1,4-DINITRO-	13.27	430	NJ
10.	99-65-0	BENZENE, 1,3-DINITRO-	13.42	470	NJ
11.	208-96-8	ACENAPHTHYLENE	13.58	1300	NJ
12.	935-95-5	PHENOL, 2,3,5,6-TETRACHLORO-	14.45	620	NJ
13.	4901-51-3	PHENOL, 2,3,4,5-TETRACHLORO-	14.54	680	NJ
14.	103-23-1	HEXANEDIOIC ACID, BIS(2-ETHY	21.37	560	NJ
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: AOC3CTCP6

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-01D

Sample wt/vol: 30.2 (g/mL) G Lab File ID: B4B7026F

% Moisture: 0 decanted: (Y/N) N Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/27/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/09/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	P
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-36-3	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: AOC3CTCP7

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-02D

Sample wt/vol: 30.1 (g/mL) G Lab File ID: B4B7027F

% Moisture: 0 decanted: (Y/N) N Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/27/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/09/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-36-3	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: AOC3CTCP8

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-03D

Sample wt/vol: 30.1 (g/mL) G Lab File ID: B4B7028F

% Moisture: 0 decanted: (Y/N) N Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/27/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/09/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-36-3	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: AOC3SSTB4902

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-04C

Sample wt/vol: 30.4 (g/mL) G Lab File ID: B4B7029F

% Moisture: 9 decanted: (Y/N) N Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/27/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/09/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	3.6	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.6	U
7421-36-3	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: AOC3SSTB5312

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-05C

Sample wt/vol: 30.6 (g/mL) G Lab File ID: E4B7030F

% Moisture: 7 decanted: (Y/N) N Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/27/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/09/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.5	U
72-55-9	4,4'-DDE	3.5	U
72-20-8	Endrin	3.5	U
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	3.5	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.5	U
7421-36-3	Endrin aldehyde	3.5	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: AOC3SSTB5402

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-06C

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E4B7031F

% Moisture: 9 decanted: (Y/N) N Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/27/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/09/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	3.6	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.6	U
7421-36-3	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: P4ALCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: LCS-4929

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E4B7024F

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/27/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/09/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	7.2	
319-85-7	beta-BHC	7.4	
319-86-8	delta-BHC	5.1	
58-89-9	gamma-BHC (Lindane)	7.5	
76-44-8	Heptachlor	7.9	
309-00-2	Aldrin	7.6	
1024-57-3	Heptachlor epoxide	7.6	
959-98-8	Endosulfan I	7.7	
60-57-1	Dieldrin	15	
72-55-9	4,4'-DDE	16	
72-20-8	Endrin	10	
33213-65-9	Endosulfan II	17	
72-54-8	4,4'-DDD	14	
1031-07-8	Endosulfan sulfate	15	
50-29-3	4,4'-DDT	17	
72-43-5	Methoxychlor	82	
53494-70-5	Endrin ketone	22	
7421-36-3	Endrin aldehyde	11	
5103-71-9	alpha-Chlordane	7.8	
5103-74-2	gamma-Chlordane	7.5	
8001-35-2	Toxaphene	170	U

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: P4ALCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: LCSD-4929

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E4B7025F

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/27/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/09/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	6.8	
319-85-7	beta-BHC	7.5	
319-86-8	delta-BHC	4.9	
58-89-9	gamma-BHC (Lindane)	7.1	
76-44-8	Heptachlor	7.7	
309-00-2	Aldrin	7.2	
1024-57-3	Heptachlor epoxide	7.6	
959-98-8	Endosulfan I	7.8	
60-57-1	Dieldrin	16	
72-55-9	4,4'-DDE	16	
72-20-8	Endrin	18	
33213-65-9	Endosulfan II	17	
72-54-8	4,4'-DDD	15	
1031-07-8	Endosulfan sulfate	16	
50-29-3	4,4'-DDT	17	
72-43-5	Methoxychlor	82	
53494-70-5	Endrin ketone	18	
7421-36-3	Endrin aldehyde	14	
5103-71-9	alpha-Chlordane	7.7	
5103-74-2	gamma-Chlordane	7.2	
8001-35-2	Toxaphene	170	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: AOC2E6

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-26C
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E1D8380F
% Moisture: _____ decanted: (Y/N)___ Date Received: 12/23/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:12/24/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: AOC2TB24

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-28A
Sample wt/vol: 30.4 (g/mL) G Lab File ID: E1D8364F
% Moisture: 9 decanted: (Y/N) N Date Received: 12/23/02
Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/27/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: AOC3B83

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-07A
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E1D8350F
% Moisture: _____ decanted: (Y/N)___ Date Received: 12/23/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:12/28/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/30/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: AOC3B84

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-08A
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E1D8351F
% Moisture: _____ decanted: (Y/N)___ Date Received: 12/23/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:12/28/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/30/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC3S9TB5402

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-05C
Sample wt/vol: 30.3 (g/mL) G Lab File ID: E1D8433F
% Moisture: 9 decanted: (Y/N) N Date Received: 12/23/02
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/27/02
Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	36	U
11104-28-2	Aroclor-1221	36	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	36	U
11096-82-5	Aroclor-1260	36	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC5ASSD7A56

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-20A
Sample wt/vol: 30.1 (g/mL) G Lab File ID: E1D8354F
% Moisture: 8 decanted: (Y/N) N Date Received: 12/23/02
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/27/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/30/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC5ASSD7A56

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-20A
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E1D8401F
% Moisture: _____ decanted: (Y/N)___ Date Received: 12/23/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 01/02/03
Concentrated Extract Volume: 10000(uL) Date Analyzed: 01/03/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC5ASSD7B56

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-21A
Sample wt/vol: 30.2 (g/mL) G Lab File ID: E1D8361F
% Moisture: 8 decanted: (Y/N) N Date Received: 12/23/02
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/27/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/30/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC5ASSD7B56

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-21A
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E1D8402F
% Moisture: _____ decanted: (Y/N)___ Date Received: 12/23/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:01/02/03
Concentrated Extract Volume: 10000(uL) Date Analyzed: 01/03/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC5ASSTB68015

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-25C
Sample wt/vol: 30.1 (g/mL) G Lab File ID: E1D8363F
% Moisture: 7 decanted: (Y/N) N Date Received: 12/23/02
Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/27/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC5ASSTB68015

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-25C
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E1D8404F
% Moisture: _____ decanted: (Y/N)___ Date Received: 12/23/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:01/02/03
Concentrated Extract Volume: 10000(uL) Date Analyzed: 01/03/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC5ASSTB6956

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-19A
Sample wt/vol: 30.0 (g/mL) G Lab File ID: E1D8353F
% Moisture: 11 decanted: (Y/N) N Date Received: 12/23/02
Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/27/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/30/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC5AS$TB6956

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-19A
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E1D8400F
% Moisture: _____ decanted: (Y/N)___ Date Received: 12/23/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 01/02/03
Concentrated Extract Volume: 10000(uL) Date Analyzed: 01/03/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC5AS$TB7002

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-23C
Sample wt/vol: 30.1 (g/mL) G Lab File ID: E1D8362F
% Moisture: 7 decanted: (Y/N) N Date Received: 12/23/02
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/27/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/30/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC5AS$TB7002

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-23C
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E1D8403F
% Moisture: _____ decanted: (Y/N)___ Date Received: 12/23/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 01/02/03
Concentrated Extract Volume: 10000(uL) Date Analyzed: 01/03/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC5E7

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-14D
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E1D8352F
% Moisture: _____ decanted: (Y/N)___ Date Received: 12/23/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/28/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/30/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC5WTB62W

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-16D
Sample wt/vol: 500.0 (g/ml) ML Lab File ID: E1D8511F
% Moisture: _____ decanted: (Y/N)___ Date Received: 12/23/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:12/26/02
Concentrated Extract Volume: 500(uL) Date Analyzed: 01/14/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.10	U
11104-28-2	Aroclor-1221	0.10	U
11141-16-5	Aroclor-1232	0.10	U
53469-21-9	Aroclor-1242	0.10	U
12672-29-6	Aroclor-1248	0.10	U
11097-69-1	Aroclor-1254	0.10	U
11096-82-5	Aroclor-1260	0.10	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC5WTB62WRE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-16ERE
Sample wt/vol: 500.0 (g/ml) ML Lab File ID: E1D8503F
% Moisture: _____ decanted: (Y/N)___ Date Received: 12/23/03
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:01/13/03
Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/13/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC7WTB65GW

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-18D
Sample wt/vol: 500.0 (g/ml) ML Lab File ID: E1D8512F
% Moisture: _____ decanted: (Y/N)___ Date Received: 12/23/02
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:12/26/02
Concentrated Extract Volume: 500(uL) Date Analyzed: 01/14/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.10	U
11104-28-2	Aroclor-1221	0.10	U
11141-16-5	Aroclor-1232	0.10	U
53469-21-9	Aroclor-1242	0.10	U
12672-29-6	Aroclor-1248	0.10	U
11097-69-1	Aroclor-1254	0.10	U
11096-82-5	Aroclor-1260	0.10	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC7WTB65GWRE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-18ERE
Sample wt/vol: 500.0 (g/ml) ML Lab File ID: E1D8504F
% Moisture: _____ decanted: (Y/N)___ Date Received: 12/23/03
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:01/13/03
Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/13/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: B1DLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: LCS-4911
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E1D8378F
% Moisture: _____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:12/24/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	9.4	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	9.7	

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: B1DLCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: LCSD-4911
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E1D8379F
% Moisture: _____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:12/24/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	9.4	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	9.8	

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: B1CLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: LCS-4930
Sample wt/vol: 30.0 (g/mL) G Lab File ID: E1D8348F
% Moisture: 0 decanted: (Y/N) N Date Received: _____
Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/27/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/30/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	230	
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	230	

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: B1CLCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: LCSD-4930
Sample wt/vol: 30.0 (g/mL) G Lab File ID: E1D8349F
% Moisture: 0 decanted: (Y/N) N Date Received: _____
Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/27/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/30/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	270	
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	280	

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
B1BLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: LCS-4933
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E1D8346F
% Moisture: _____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:12/28/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/30/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	8.5	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	8.0	

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
B1BLCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: LCSD-4933
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E1D8347F
% Moisture: _____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:12/28/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/30/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	8.0	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	7.4	

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
B1ELCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: LCS-4935
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E1D8398F
% Moisture: _____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:01/02/03
Concentrated Extract Volume: 10000(uL) Date Analyzed: 01/03/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	31	
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	32	

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
B1ELCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: LCSD-4935
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E1D8399F
% Moisture: _____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:01/02/03
Concentrated Extract Volume: 10000(uL) Date Analyzed: 01/03/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	30	
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	30	

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
B1ALCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: LCS-5070
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E1D8496F
% Moisture: _____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 01/13/03
Concentrated Extract Volume: 2500 (uL) Date Analyzed: 01/13/03
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	2.0	
11104-28-2	Aroclor-1221	0.25	U
11141-16-5	Aroclor-1232	0.25	U
53469-21-9	Aroclor-1242	0.25	U
12672-29-6	Aroclor-1248	0.25	U
11097-69-1	Aroclor-1254	0.25	U
11096-82-5	Aroclor-1260	2.2	

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
B1ALCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: LCSD-5070
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E1D8497F
% Moisture: _____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 01/13/03
Concentrated Extract Volume: 2500 (uL) Date Analyzed: 01/13/03
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	2.1	
11104-28-2	Aroclor-1221	0.25	U
11141-16-5	Aroclor-1232	0.25	U
53469-21-9	Aroclor-1242	0.25	U
12672-29-6	Aroclor-1248	0.25	U
11097-69-1	Aroclor-1254	0.25	U
11096-82-5	Aroclor-1260	2.2	

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2E6

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): WATER Lab Sample ID: A1905-26A
Level (low/med): MED Date Received: 12/23/02
% Solids: _____

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13.5	B		P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	7.0	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	76.0	U		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	35.0	U		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	23.0	U		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	89.0	U		P
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	5.3	B		P
7440-23-5	Sodium	118	U		P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2TB24

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): SOIL Lab Sample ID: A1905-28A
Level (low/med): MED Date Received: 12/23/02
% Solids: 91.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	19300			P
7440-36-0	Antimony	1.7		N	P
7440-38-2	Arsenic	8.4		E	P
7440-39-3	Barium	183		E*	P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.85			P
7440-70-2	Calcium	3750			P
7440-47-3	Chromium	77.6			P
7440-48-4	Cobalt	16.9			P
7440-50-8	Copper	41.8			P
7439-89-6	Iron	40100			P
7439-92-1	Lead	12.1		E	P
7439-95-4	Magnesium	11600			P
7439-96-5	Manganese	752		E	P
7439-97-6	Mercury	0.017	U		CV
7440-02-0	Nickel	46.0		E	P
7440-09-7	Potassium	7980			P
7782-49-2	Selenium	0.41	U	N	P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	277			P
7440-28-0	Thallium	0.20	U		P
7440-62-2	Vanadium	70.4			P
7440-66-6	Zinc	76.3		E	P
	Cyanide				NR

Color Before: _____ Clarity Before: _____ Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3BB3

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): WATER Lab Sample ID: A1905-07A
Level (low/med): MED Date Received: 12/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12.0	U		P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	7.3	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	76.0	U		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	3.6	B		P
7439-89-6	Iron	35.0	U		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	23.0	U		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	89.0	U		P
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	3.4	B		P
7440-23-5	Sodium	676	B		P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3BB4

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): WATER Lab Sample ID: A1905-08A
Level (low/med): MED Date Received: 12/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12.0	U		P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	5.7	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	76.0	U		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	3.5	B		P
7439-89-6	Iron	190	B		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	23.0	U		P
7439-96-5	Manganese	2.4	B		P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	89.0	U		P
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	3.8	B		P
7440-23-5	Sodium	629	B		P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP6

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): WATER Lab Sample ID: SPLPA1905-01D
Level (low/med): MED Date Received: 12/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	45.7	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	8.4	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	5.4	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	1.0	U		CV
7440-02-0	Nickel	5.0	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	7.3	B		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium	10.4	B		P
7440-66-6	Zinc	9.5	B		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:
SPLP_METALS_FOR_SAMPLE_AOC3CTCP6

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP6

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): WATER Lab Sample ID: SPLPA1905-01D
Level (low/med): MED Date Received: 12/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron				NR
7440-31-5	Tin	38.0	U		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:
SPLP_METALS_FOR_SAMPLE_AOC3CTCP6

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP6

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): SOIL Lab Sample ID: A1905-01D
Level (low/med): MED Date Received: 12/23/02
% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	1.3		F	P
7440-39-3	Barium	34.9		E*	P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.096	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	6.8			P
7440-48-4	Cobalt	1.8	B		P
7440-50-8	Copper	14.3			P
7439-89-6	Iron				NR
7439-92-1	Lead	2.7		E	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.11			CV
7440-02-0	Nickel	5.2		E	P
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.38	U	N	P
7440-22-4	Silver	0.096	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium	6.0			P
7440-66-6	Zinc	28.2		E	P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP6

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): SOIL Lab Sample ID: A1905-01D
Level (low/med): MED Date Received: 12/23/02
% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron				NR
7440-31-5	Tin	1.8	U		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP7

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): WATER Lab Sample ID: SPLPA1905-02D
Level (low/med): MED Date Received: 12/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	98.2	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	4.6	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.7	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	1.0	U		CV
7440-02-0	Nickel	1.1	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	6.0	B		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	11.1	B		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:
SPLP_METALS_FOR_SAMPLE_AOC3CTCP7

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP7

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): WATER Lab Sample ID: SPLPA1905-02D
Level (low/med): MED Date Received: 12/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron				NR
7440-31-5	Tin	18.0	U		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:
SPLP_METALS_FOR_SAMPLE_AOC3CTCP7

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP7

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): SOIL Lab Sample ID: A1905-02D
Level (low/med): MED Date Received: 12/23/02
% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	1.7		E	P
7440-39-3	Barium	32.8		E*	P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.095	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	8.1			P
7440-48-4	Cobalt	1.9	B		P
7440-50-8	Copper	13.9			P
7439-89-6	Iron				NR
7439-92-1	Lead	2.7		E	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.014	U		CV
7440-02-0	Nickel	5.7		E	P
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.38	U	N	P
7440-22-4	Silver	0.095	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium	7.2			P
7440-66-6	Zinc	27.6		E	P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP7

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): SOIL Lab Sample ID: A1905-02D
Level (low/med): MED Date Received: 12/23/02
% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron				NR
7440-31-5	Tin	1.8	U		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP8

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): WATER Lab Sample ID: SPLPA1905-03D
Level (low/med): MED Date Received: 12/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	94.5	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	6.1	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	1.0	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	4.9	B		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	12.3	B		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:
SPLP_METALS_FOR_SAMPLE_AOC3CTCP8

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP8

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): WATER Lab Sample ID: SPLPA1905-03D
Level (low/med): MED Date Received: 12/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron				NR
7440-31-5	Tin	38.0	U		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:
SPLP_METALS_FOR_SAMPLE_AOC3CTCP8

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP8

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): SOIL Lab Sample ID: A1905-03D
Level (low/med): MED Date Received: 12/23/02
% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	1.6		E	P
7440-39-3	Barium	33.2		E*	P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.097	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	9.4			P
7440-48-4	Cobalt	2.4	B		P
7440-50-8	Copper	16.8			P
7439-89-6	Iron				NR
7439-92-1	Lead	4.3		E	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.015	U		CV
7440-02-0	Nickel	7.5		E	P
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.75	B	N	P
7440-22-4	Silver	0.097	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium	7.9			P
7440-66-6	Zinc	39.5		E	P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP8

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): SOIL Lab Sample ID: A1905-03D
Level (low/med): MED Date Received: 12/23/02
% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron				NR
7440-31-5	Tin	1.8	U		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3E5

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): WATER Lab Sample ID: A1905-10A
Level (low/med): MED Date Received: 12/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14.4	B		P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	10.1	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	76.0	U		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	148	B		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	23.0	U		P
7439-96-5	Manganese	5.1	B		P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	89.0	U		P
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	3.7	B		P
7440-23-5	Sodium	118	U		P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB5402

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): SOIL Lab Sample ID: A1905-06C
Level (low/med): MED Date Received: 12/23/02
% Solids: 91.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15400			P
7440-36-0	Antimony	0.93	B	N	P
7440-38-2	Arsenic	9.0		E	P
7440-39-3	Barium	158		E*	P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.54			P
7440-70-2	Calcium	4340			P
7440-47-3	Chromium	42.0			P
7440-48-4	Cobalt	10.5			P
7440-50-8	Copper	20.0			P
7439-89-6	Iron	19000			P
7439-92-1	Lead	9.4		E	P
7439-95-4	Magnesium	7110			P
7439-96-5	Manganese	636		E	P
7439-97-6	Mercury	0.016	U		CV
7440-02-0	Nickel	23.4		E	P
7440-09-7	Potassium	3800			P
7782-49-2	Selenium	0.41	U	N	P
7440-22-4	Silver	0.23	B		P
7440-23-5	Sodium	571			P
7440-28-0	Thallium	0.20	U		P
7440-62-2	Vanadium	41.3			P
7440-66-6	Zinc	46.7		E	P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5ASSTB68015

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): SOIL Lab Sample ID: A1905-25C
Level (low/med): MED Date Received: 12/23/02
% Solids: 93.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron	10200			P
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5E7

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): WATER Lab Sample ID: A1905-14B
Level (low/med): MED Date Received: 12/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	30.7	B		P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	101	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	10100			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	84.7	B		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	635			P
7439-96-5	Manganese	4.6	B		P
7439-97-6	Mercury	0.27	B		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	780	B		P
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	7.8	B		P
7440-23-5	Sodium	8760			P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5SSTB6267

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): SOIL Lab Sample ID: A1905-15C
Level (low/med): MED Date Received: 12/23/02
% Solids: 57.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	23200			P
7440-36-0	Antimony	1.4	B	N	P
7440-38-2	Arsenic	5.3		E	P
7440-39-3	Barium	45.4		E*	P
7440-41-7	Beryllium	1.0			P
7440-43-9	Cadmium	0.23	B		P
7440-70-2	Calcium	2430			P
7440-47-3	Chromium	21.2			P
7440-48-4	Cobalt	4.0	B		P
7440-50-8	Copper	9.8			P
7439-89-6	Iron	13600			P
7439-92-1	Lead	14.3		E	P
7439-95-4	Magnesium	4770			P
7439-96-5	Manganese	121		E	P
7439-97-6	Mercury	0.10			CV
7440-02-0	Nickel	13.2		E	P
7440-09-7	Potassium	1480			P
7782-49-2	Selenium	0.69	U	N	P
7440-22-4	Silver	0.45	B		P
7440-23-5	Sodium	2240			P
7440-28-0	Thallium	2.0			P
7440-62-2	Vanadium	32.2			P
7440-66-6	Zinc	39.1		E	P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5WTB62W

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): WATER Lab Sample ID: A1905-16B
Level (low/med): MED Date Received: 12/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	179			P
7440-39-3	Barium	1320			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	12.9			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	626			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	981			P
7439-89-6	Iron	374000			P
7439-92-1	Lead	316			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	4160			P
7439-97-6	Mercury	0.80			CV
7440-02-0	Nickel	452			P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	5.4	B		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	904			P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:
TOTAL_METALS_FOR_SAMPLE_AOC5WTB62W

FORM I - IN SW846

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC5WTB62W

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): WATER Lab Sample ID: A1905-16B

Level (low/med): MED Date Received: 12/23/02

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	2920			P
7440-31-5	Tin				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

TOTAL_METALS_FOR_SAMPLE_AOC5WTB62W

FORM I - IN SW846

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC5WTB62W

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): WATER Lab Sample ID: A1905-16C

Level (low/med): MED Date Received: 12/23/02

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	6.9	B		P
7440-39-3	Barium	34.5	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.5	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	6420			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	712			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	3.2	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	6.4	B		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	10	B		P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

DISSOLVED_METALS_FOR_SAMPLE_AOC5WTB62W

FORM I - IN SW846

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC5WTB62W

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): WATER Lab Sample ID: A1905-16C

Level (low/med): MED Date Received: 12/23/02

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	2570			P
7440-31-5	Tin				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

DISSOLVED_METALS_FOR_SAMPLE_AOC5WTB62W

FORM I - IN SW846

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC5SSTB6167

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): SOIL Lab Sample ID: A1905-15C

Level (low/med): MED Date Received: 12/23/02

% Solids: 57.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	23200			P
7440-36-0	Antimony	1.4	B	N	P
7440-38-2	Arsenic	4.3		P	P
7440-39-3	Barium	45.4		E	P
7440-41-7	Beryllium	1.0			P
7440-43-9	Cadmium	0.23	B		P
7440-70-2	Calcium	2430			P
7440-47-3	Chromium	21.2			P
7440-48-4	Cobalt	4.0	B		P
7440-50-8	Copper	9.8			P
7439-89-6	Iron	13600			P
7439-92-1	Lead	14.3		E	P
7439-95-4	Magnesium	4770			P
7439-96-5	Manganese	121		E	P
7439-97-6	Mercury	0.10			CV
7440-02-0	Nickel	13.2		E	P
7440-09-7	Potassium	1480			P
7782-49-2	Selenium	0.69	U	N	P
7440-22-4	Silver	0.45	B		P
7440-23-5	Sodium	2240			P
7440-28-0	Thallium	2.0			P
7440-62-2	Vanadium	32.2			P
7440-66-6	Zinc	39.1		E	P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC6SSTB7167

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): SOIL Lab Sample ID: A1905-22C
Level (low/med): MED Date Received: 12/23/02
% Solids: 63.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron	8950			P
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC7WTB65GW

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): WATER Lab Sample ID: A1905-18B
Level (low/med): MED Date Received: 12/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	4.3	B		P
7440-39-3	Barium	29.0	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	6460			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	1130			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	2.0	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	5.3	B		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:
DISSOLVED_METALS_FOR_SAMPLE_AOC7WTB65GW

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC7WTB65GW

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): WATER Lab Sample ID: A1905-18B
Level (low/med): MED Date Received: 12/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	1000			P
7440-31-5	Tin				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:
DISSOLVED_METALS_FOR_SAMPLE_AOC7WTB65GW

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC7WTB65GW

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): WATER Lab Sample ID: A1905-18C
Level (low/med): MED Date Received: 12/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	44.3			P
7440-39-3	Barium	535			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	4.0	B		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	254			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	407			P
7439-89-6	Iron	168000			P
7439-92-1	Lead	121			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	2860			P
7439-97-6	Mercury	0.18	B		CV
7440-02-0	Nickel	213			P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	8.1	B		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	400			P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:
TOTAL_METALS_FOR_SAMPLE_AOC7WTB65GW

FORM I - IN SW846

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC7WTB65GW

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): WATER Lab Sample ID: A1905-18C

Level (low/med): MED Date Received: 12/23/02

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	1450			P
7440-31-5	Tin				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

TOTAL_METALS_FOR_SAMPLE_AOC7WTB65GW

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Solid LCS Source: ERA_LOT#802115

Aqueous LCS Source: HIGH_PURITY

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	9100.0	8999.4	98.9	910.0	884.2		758.9	982.8	97.2
Antimony	455.0	481.7	105.9	45.5	44.5		38.9	60.2	97.8
Arsenic	455.0	481.0	105.7	45.5	49.3		35.4	57.8	108.4
Barium	9100.0	9270.8	101.9	910.0	971.1		810.8	1072.9	106.7
Beryllium	227.0	227.8	100.4	22.7	22.8		19.0	26.1	100.4
Cadmium	227.0	233.4	102.8	22.7	23.0		18.2	29.8	101.3
Calcium	22700.0	21955.1	96.7	2270.0	2137.4		1886.4	2526.5	94.2
Chromium	910.0	906.1	99.6	91.0	91.8		76.3	105.7	100.9
Cobalt	2270.0	2283.5	100.6	227.0	221.9		193.2	265.4	97.8
Copper	1130.0	1142.2	101.1	113.0	113.0		93.7	133.7	100.0
Iron	4550.0	4561.6	100.3	455.0	465.4		391.3	533.3	102.3
Lead	455.0	468.5	103.0	45.5	48.2		36.5	61.4	105.9
Magnesium	22700.0	22427.3	98.8	2270.0	2269.2		1920.4	2546.9	100.0
Manganese	2270.0	2277.6	100.3	227.0	223.9		195.2	267.4	98.6
Mercury	4.6	4.2	91.3	0.8	0.8		0.6	1.0	100.0
Nickel	2270.0	2303.5	101.5	227.0	242.3		192.0	262.9	106.7
Potassium	22700.0	21810.0	96.1	2270.0	2205.1		1718.4	2590.1	97.1
Selenium	455.0	453.0	99.6	45.5	41.5		34.6	56.4	91.2
Silver	1130.0	1130.6	100.1	113.0	108.8		87.8	132.6	96.3
Sodium	22700.0	21893.0	96.4	2270.0	2235.4		1784.2	2478.8	98.5
Thallium	455.0	470.0	103.3	45.5	46.8		35.3	61.3	102.9
Vanadium	2270.0	2234.1	98.4	227.0	229.8		189.3	261.5	101.2
Zinc	2270.0	2296.4	101.2	227.0	226.6		184.8	258.3	99.8
Cyanide									

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Solid LCS Source: ERA_LOT#802115

Aqueous LCS Source: HIGH_PURITY

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	9100.0	8944.7	98.3	910.0	858.3		758.9	982.8	94.3
Antimony	455.0	453.4	99.6	45.5	44.0		38.9	60.2	96.7
Arsenic	455.0	507.9	111.6	45.5	49.0		35.4	57.8	107.7
Barium	9100.0	9635.4	105.9	910.0	956.6		810.8	1072.9	105.1
Beryllium	227.0	229.1	100.9	22.7	22.3		19.0	26.1	98.2
Cadmium	227.0	233.6	102.9	22.7	22.4		18.2	29.8	98.7
Calcium	22700.0	22113.6	97.4	2270.0	2081.5		1886.4	2526.5	91.7
Chromium	910.0	902.5	99.2	91.0	89.0		76.3	105.7	97.8
Cobalt	2270.0	2204.0	97.1	227.0	212.2		193.2	265.4	93.5
Copper	1130.0	1135.0	100.4	113.0	110.2		93.7	133.7	97.5
Iron	4550.0	4588.2	100.8	455.0	456.4		391.3	533.3	100.3
Lead	455.0	484.8	106.5	45.5	47.7		36.5	61.4	104.8
Magnesium	22700.0	22762.8	100.3	2270.0	2219.5		1920.4	2546.9	97.8
Manganese	2270.0	2314.7	102.0	227.0	223.4		195.2	267.4	98.4
Mercury	4.6	4.0	87.0	0.8	0.8		0.6	1.0	100.0
Nickel	2270.0	2413.4	106.3	227.0	240.0		192.0	262.9	105.7
Potassium	22700.0	22067.6	97.2	2270.0	2139.0		1718.4	2590.1	94.2
Selenium	455.0	453.1	99.6	45.5	40.1		34.6	56.4	88.1
Silver	1130.0	1103.5	97.7	113.0	103.8		87.8	132.6	91.9
Sodium	22700.0	21782.4	96.0	2270.0	2208.2		1784.2	2478.8	97.3
Thallium	455.0	478.3	105.1	45.5	46.0		35.3	61.3	101.1
Vanadium	2270.0	2275.3	100.2	227.0	225.1		189.3	261.5	99.2
Zinc	2270.0	2286.2	100.7	227.0	220.5		184.8	258.3	97.1
Cyanide									

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	VBLK1K	95	90	97	91	0
02	V1KLCS	98	102	91	94	0
03	V1KLCSD	100	100	95	97	0
04	AOC3CTCP6	99	101	101	85	0
05	AOC3SSTB4902	98	100	93	84	0
06	AOC3SSTB5312	101	106	97	84	0
07	AOC3SSTB5402	95	102	88	84	0
08	AOC3CTCP7	18*	91	97	77	1
09	AOC3CTCP8	25*	96	97	85	1
10	AOC7SSTB6578	97	94	109	67	0
11	AOC6SSTB7167	100	101	105	72	0
12	AOC5ASSTB700	100	107	92	82	0
13	AOC5ASSTB697	95	94	109	63	0
14	AOC5ASSTB680	70	55	87	55	0
15	AOC3CTCP6RE	82	62	109	82	0
16	AOC2TB5512	104	112	98	88	0
17	VBLK1L	95	91	97	90	0
18	V1LLCS	111	110	102	107	0
19	AOC3CTCP7RE	76	88	102	80	0
20	AOC5ASSTB680	91	86	99	82	0
21	AOC5SSTB6267	94	85	104	79	0
22						
23						
24						
25						
26						
27						
28						
29						
30						

QC LIMITS

SMC1 = Dibromofluoromethane (52-130)
SMC2 (DCE) = 1,2-Dichloroethane-d4 (50-126)
SMC3 (TOL) = Toluene-d8 (25-156)
OTHER (BFB) = Bromofluorobenzene (49-146)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Level: (low/med) MED

	EPA SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	VBLK6U	94	85	102	90	0
02	V6ULCS	104	98	104	101	0
03	AOC3CTCP8DL	92	87	101	92	0
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
SMC1	= Dibromofluoromethane	(52-130)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(50-126)
SMC3 (TOL)	= Toluene-d8	(25-156)
OTHER (BFB)	= Bromofluorobenzene	(49-146)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLK2E	78	83	68	22	36	83	64	79	0
02	S2ELCS	76	83	76	25	38	79	66	76	0
03	SBLK2F	88	92	81	26	41	92	76	90	0
04	S2FLCS	76	85	79	22	34	83	66	78	0
05	AOC3BB3	76	83	83	21	34	75	65	78	0
06	AOC3BB4	80	86	77	27	41	81	71	80	0
07	AOC5E7	72	79	73	21	33	75	62	72	0
08	AOC5WTB62W	80	86	88	45	56	88	74	77	0
09	AOC7WTB65GW	65	82	82	44	48	85	64	49	0
10	AOC2B6	82	90	89	35	49	89	73	84	0
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(48-106)	
S2 (FBP)	= 2-Fluorobiphenyl	(38-120)	
S3 (TPH)	= Terphenyl-d14	(0-147)	
S4 (PHL)	= Phenol-d5	(0-120)	
S5 (2FP)	= 2-Fluorophenol	(1-103)	
S6 (TBP)	= 2,4,6-Tribromophenol	(37-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(28-107)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(37-106)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	AOC3CTCP6	62	65	79	49	32*	8*	39*	60	3
02	AOC3CTCP7	58	64	90	4*	0*	0*	0*	59	4
03	AOC3CTCP8	55	64	94	18*	3*	0*	6*	57	4
04	AOC3SSTB5312	52	54	55*	54	55	53	54	54	1
05	AOC3SSTB5402	46	51*	54*	49	46	48*	47	48	3
06	AOC3SSD5A45	50	54	57*	54	52	54	53	53	1
07	AOC3SSD5B45	53	57	57*	56	54	48*	55	56	2
08	AOC3SSTB4945	54	58	59*	56	55	55	56	57	1
09	AOC2TB24	49	52	53*	52	52	53	52	52	1
10	SBLK2U	68	69	73	71	61	51	67	71	0
11	S2ULCS	64	67	77	73	69	75	73	67	0
12	S2ULCSD	61	66	78	70	65	70	69	63	0
13	SBLK2A	82	83	95	86	82	83	85	82	0
14	S2ALCS	81	84	98	86	85	92	87	80	0
15	AOC3CTCP6RE	89	93	102	66	24*	0*	36*	86	3
16	AOC3CTCP7RE	82	92	107	16*	0*	0*	4*	81	4
17	AOC3CTCP8RE	85	94	112	40*	10*	2*	17*	88	4
18	AOC3SSTB5312	64	72	94	71	64	90	69	58	0
19	AOC3SSTB5402	76	80	99	79	75	89	80	76	0
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(46-102)	
S2 (FBP)	= 2-Fluorobiphenyl	(52-107)	
S3 (TPH)	= Terphenyl-d14	(61-113)	
S4 (PHL)	= Phenol-d5	(45- 99)	
S5 (2FP)	= 2-Fluorophenol	(44- 95)	
S6 (TBP)	= 2,4,6-Tribromophenol	(50-111)	
S7 (2CP)	= 2-Chlorophenol-d4	(45- 97)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(44-100)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 2
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

GC Column(1): CLPPEST2 ID: 0.53 (mm) GC Column(2): CLPPEST1 ID: 0.53 (mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK4A	88	94	106	104			0
02	P4ALCS	105	118	125	120			0
03	P4ALCSD	94	103	122	120			0
04	AOC3CTCP6	98	106	66	72			0
05	AOC3CTCP7	110	110	64	70			0
06	AOC3CTCP8	137	100	52	56			0
07	AOC3SSTB4902	93	103	81	78			0
08	AOC3SSTB5312	92	113	101	92			0
09	AOC3SSTB5402	81	122	96	90			0
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

		ADVISORY QC LIMITS
S1 (TCX)	= Tetrachloro-m-xylene	(18-153)
S2 (DCB)	= Decachlorobiphenyl	(46-140)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 2
WATER PCB SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

GC Column(1): RTXCLPPEST 2 ID: 0.53 (mm) GC Column(2): RTXCLPPEST ID: 0.53 (mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	B8LK1B	80	73	91	78			0
02	B1BLCS	85	74	87	75			0
03	B1BLCSD	77	67	82	71			0
04	AOC3BB3	79	74	95	84			0
05	AOC3BB4	84	78	88	78			0
06	AOC5E7	67	63	81	72			0
07	B8LK1D	81	76	95	87			0
08	B1DLCS	103	92	107	98			0
09	B1DLCSD	104	93	107	99			0
10	AOC2B6	101	94	88	80			0
11	B8LK1E	78	74	89	81			0
12	B1ELCS	98	89	100	92			0
13	B1ELCSD	88	80	89	81			0
14	AOC5ASSTB695	92	88	62	56			0
15	AOC5ASSD7A56	91	87	64	58			0
16	AOC5ASSD7B56	87	84	61	55			0
17	AOC5ASSTB700	90	87	79	72			0
18	AOC5ASSTB680	89	85	93	86			0
19	B8LK1A	93	86	90	78			0
20	B1ALCS	85	74	95	82			0
21	B1ALCSD	108	95	100	87			0
22	AOC5WTB62WRE	76	69	66	58			0
23	AOC7WTB65GWR	68	62	58	52			0
24	B8LK1F	0*	0*	0*	0*			4
25	AOC5WTB62W	0*	0*	0*	0*			4
26	AOC7WTB65GW	0*	0*	0*	0*			4
27								
28								
29								
30								

ADVISORY
QC LIMITS
S1 (TCX) = Tetrachloro-m-xylene (29-158)
S2 (DCB) = Decachlorobiphenyl (30-164)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 2
SOIL PCB SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

GC Column(1): RTXCLPPEST 2 ID: 0.53 (mm) GC Column(2): RTXCLPPEST ID: 0.53 (mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	B1CLCS	76	76	70	63			0
02	B1CLCSD	91	96	82	76			0
03	AOC5ASSTB695	88	83	81	76			0
04	AOC5ASSD7A56	88	83	81	76			0
05	AOC5ASSD7B56	90	85	83	78			0
06	AOC5ASSTB700	86	81	80	76			0
07	AOC5ASSTB680	102	98	79	84			0
08	AOC2TB24	99	92	87	83			0
09	B8LK1C	99	94	97	93			0
10	AOC3SSTB5402	82	78	85	80			0
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS
S1 (TCX) = Tetrachloro-m-xylene (42-147)
S2 (DCB) = Decachlorobiphenyl (29-155)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V1KLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	50		45	90	58-131
Chloromethane	50		48	96	63-120
Vinyl Chloride	50		48	96	61-134
Bromomethane	50		42	84	10-215
Chloroethane	50		44	88	55-146
Trichlorofluoromethane	50		48	96	63-126
1,1-Dichloroethene	50		48	96	67-127
Acetone	50		45	90	0-154
Methylene Chloride	50		45	90	62-128
trans-1,2-Dichloroethen	50		48	96	76-120
Methyl tert-butyl ether	50		55	110	52-130
1,1-Dichloroethane	50		49	98	74-118
2-Butanone	50		55	110	14-154
cis-1,2-Dichloroethene	50		49	98	83-115
2,2-Dichloropropane	50		48	96	64-125
Bromochloromethane	50		50	100	70-119
Chloroform	50		50	100	77-120
Tetrahydrofuran	50		56	112	70-130
1,1,1-Trichloroethane	50		48	96	72-126
1,1-Dichloropropene	50		47	94	71-132
Carbon Tetrachloride	50		47	94	69-135
1,2-Dichloroethane	50		53	106	65-126
Benzene	50		49	98	78-121
Trichloroethene	50		48	96	75-125
1,2-Dichloropropane	50		50	100	78-117
Dibromomethane	50		51	102	65-125
Bromodichloromethane	50		50	100	75-118
cis-1,3-Dichloropropene	50		50	100	78-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V1KLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
4-Methyl-2-pentanone	50		55	110	45-141
Toluene	50		48	96	80-126
trans-1,3-Dichloroprope	50		52	104	73-123
1,1,2-Trichloroethane	50		50	100	66-125
1,3-Dichloropropane	50		51	102	76-119
Tetrachloroethene	50		46	92	65-134
2-Hexanone	50		57	114	37-136
Dibromochloromethane	50		50	100	76-115
1,2-Dibromoethane	50		51	102	72-117
Chlorobenzene	50		47	94	78-117
1,1,1,2-Tetrachloroetha	50		49	98	80-115
Ethylbenzene	50		47	94	79-129
Xylene (Total)	150		140	93	83-125
Styrene	50		50	100	83-122
Bromoform	50		51	102	67-126
Isopropylbenzene	50		47	94	80-135
1,1,2,2-Tetrachloroetha	50		48	96	70-117
Bromobenzene	50		47	94	79-119
1,2,3-Trichloropropane	50		48	96	0-154
n-Propylbenzene	50		45	90	64-141
2-Chlorotoluene	50		46	92	70-132
1,3,5-Trimethylbenzene	50		46	92	72-133
4-Chlorotoluene	50		45	90	77-122
tert-Butylbenzene	50		43	86	31-159
1,2,4-Trimethylbenzene	50		46	92	73-126
sec-Butylbenzene	50		45	90	68-137
4-Isopropyltoluene	50		45	90	66-131
1,3-Dichlorobenzene	50		46	92	75-115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V1KLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
1,4-Dichlorobenzene	50		46	92	72-110
n-Butylbenzene	50		45	90	66-130
1,2-Dichlorobenzene	50		45	90	78-113
1,2-Dibromo-3-chloropro	50		48	96	52-128
1,2,4-Trichlorobenzene	50		46	92	49-126
Hexachlorobutadiene	50		46	92	58-115
Naphthalene	50		43	86	45-130
1,2,3-Trichlorobenzene	50		44	88	44-131
1-Chlorohexane	50		45	90	70-130
Acrylonitrile	250		220	88	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V1KLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	50	42	84	7	40	58-131
Chloromethane	50	49	98	2	40	63-120
Vinyl Chloride	50	48	96	0	40	61-134
Bromomethane	50	44	88	5	40	10-215
Chloroethane	50	45	90	2	40	55-146
Trichlorofluoromethane	50	46	92	4	40	63-126
1,1-Dichloroethene	50	50	100	4	40	67-127
Acetone	50	44	88	2	40	0-154
Methylene Chloride	50	47	94	4	40	62-128
trans-1,2-Dichloroethen	50	49	98	2	40	76-120
Methyl tert-butyl ether	50	35	70	44*	40	52-138
1,1-Dichloroethane	50	51	102	4	40	74-118
2-Butanone	50	52	104	6	40	14-154
cis-1,2-Dichloroethene	50	50	100	2	40	83-115
2,2-Dichloropropane	50	47	94	2	40	64-125
Bromochloromethane	50	51	102	2	40	70-119
Chloroform	50	51	102	2	40	77-120
Tetrahydrofuran	50	54	108	4	40	70-130
1,1,1-Trichloroethane	50	49	98	2	40	72-126
1,1-Dichloropropene	50	49	98	4	40	71-132
Carbon Tetrachloride	50	49	98	4	40	69-135
1,2-Dichloroethane	50	54	108	2	40	65-126
Benzene	50	50	100	2	40	78-121
Trichloroethene	50	50	100	4	40	75-125
1,2-Dichloropropane	50	51	102	2	40	78-117
Dibromomethane	50	52	104	2	40	65-125
Bromodichloromethane	50	52	104	4	40	75-118
cis-1,3-Dichloropropene	50	52	104	4	40	78-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V1KLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
4-Methyl-2-pentanone	50	52	104	6	40	45-141
Toluene	50	50	100	4	40	80-126
trans-1,3-Dichloroprope	50	52	104	0	40	73-123
1,1,2-Trichloroethane	50	52	104	4	40	66-125
1,3-Dichloropropane	50	52	104	2	40	76-119
Tetrachloroethene	50	50	100	8	40	65-134
2-Hexanone	50	53	106	7	40	37-136
Dibromochloromethane	50	51	102	2	40	76-115
1,2-Dibromoethane	50	52	104	2	40	72-117
Chlorobenzene	50	49	98	4	40	78-117
1,1,1,2-Tetrachloretha	50	50	100	2	40	80-115
Ethylbenzene	50	50	100	6	40	79-129
Xylene (Total)	150	140	93	0	40	83-125
Styrene	50	50	100	0	40	83-122
Bromoform	50	51	102	0	40	67-126
Isopropylbenzene	50	49	98	4	40	80-135
1,1,2,2-Tetrachloretha	50	48	96	0	40	70-117
Bromobenzene	50	49	98	4	40	79-119
1,2,3-Trichloropropane	50	50	100	4	40	0-154
n-Propylbenzene	50	48	96	6	40	64-141
2-Chlorotoluene	50	48	96	4	40	70-132
1,3,5-Trimethylbenzene	50	47	94	2	40	72-133
4-Chlorotoluene	50	48	96	6	40	77-122
tert-Butylbenzene	50	46	92	7	40	31-159
1,2,4-Trimethylbenzene	50	48	96	4	40	73-126
sec-Butylbenzene	50	47	94	4	40	68-137
4-Isopropyltoluene	50	47	94	4	40	66-131
1,3-Dichlorobenzene	50	48	96	4	40	75-115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V1KLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,4-Dichlorobenzene	50	48	96	4	40	72-110
n-Butylbenzene	50	47	94	4	40	66-130
1,2-Dichlorobenzene	50	47	94	4	40	78-113
1,2-Dibromo-3-chloropro	50	48	96	0	40	52-128
1,2,4-Trichlorobenzene	50	47	94	2	40	49-126
Hexachlorobutadiene	50	49	98	6	40	58-115
Naphthalene	50	44	88	2	40	45-130
1,2,3-Trichlorobenzene	50	46	92	4	40	44-131
1-Chlorohexane	50	47	94	4	40	70-130
Acrylonitrile	250	260	104	17	40	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 66 outside limits
Spike Recovery: 0 out of 132 outside limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V1LLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	50		48	96	58-131
Chloromethane	50		53	106	63-120
Vinyl Chloride	50		53	106	61-134
Bromomethane	50		42	84	10-215
Chloroethane	50		43	86	55-146
Trichlorofluoromethane	50		51	102	63-126
1,1-Dichloroethene	50		53	106	67-127
Acetone	50		54	108	0-154
Methylene Chloride	50		53	106	62-128
trans-1,2-Dichloroethen	50		50	100	76-120
Methyl tert-butyl ether	50		57	114	52-130
1,1-Dichloroethane	50		52	104	74-118
2-Butanone	50		62	124	14-154
cis-1,2-Dichloroethene	50		50	100	83-115
2,2-Dichloropropane	50		50	100	64-125
Bromochloromethane	50		52	104	70-119
Chloroform	50		53	106	77-120
Tetrahydrofuran	50		61	122	70-130
1,1,1-Trichloroethane	50		50	100	72-126
1,1-Dichloropropene	50		51	102	71-132
Carbon Tetrachloride	50		50	100	69-135
1,2-Dichloroethane	50		56	112	65-126
Benzene	50		52	104	78-121
Trichloroethene	50		51	102	75-125
1,2-Dichloropropane	50		53	106	78-117
Dibromomethane	50		55	110	65-125
Bromodichloromethane	50		53	106	75-118
cis-1,3-Dichloropropene	50		53	106	78-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V1LLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
4-Methyl-2-pentanone	50		64	128	45-141
Toluene	50		51	102	80-126
trans-1,3-Dichloroprope	50		55	110	73-123
1,1,2-Trichloroethane	50		54	108	66-125
1,3-Dichloropropane	50		55	110	76-119
Tetrachloroethene	50		50	100	65-134
2-Hexanone	50		65	130	37-136
Dibromochloromethane	50		52	104	76-115
1,2-Dibromoethane	50		54	108	72-117
Chlorobenzene	50		49	98	78-117
1,1,1,2-Tetrachloroetha	50		50	100	80-115
Ethylbenzene	50		50	100	79-129
Xylene (Total)	150		150	100	83-125
Styrene	50		52	104	83-122
Bromoform	50		53	106	67-126
Isopropylbenzene	50		50	100	80-135
1,1,2,2-Tetrachloroetha	50		51	102	70-117
Bromobenzene	50		49	98	79-119
1,2,3-Trichloropropane	50		54	108	0-154
n-Propylbenzene	50		49	98	64-141
2-Chlorotoluene	50		47	94	70-132
1,3,5-Trimethylbenzene	50		48	96	72-133
4-Chlorotoluene	50		48	96	77-122
tert-Butylbenzene	50		47	94	31-159
1,2,4-Trimethylbenzene	50		48	96	73-126
sec-Butylbenzene	50		47	94	68-137
4-Isopropyltoluene	50		48	96	66-131
1,3-Dichlorobenzene	50		48	96	75-115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V1LLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
1,4-Dichlorobenzene	50		47	94	72-110
n-Butylbenzene	50		49	98	66-130
1,2-Dichlorobenzene	50		47	94	78-113
1,2-Dibromo-3-chloropro	50		53	106	52-128
1,2,4-Trichlorobenzene	50		47	94	49-126
Hexachlorobutadiene	50		48	96	58-115
Naphthalene	50		47	94	45-130
1,2,3-Trichlorobenzene	50		47	94	44-131
1-Chlorohexane	50		49	98	70-130
Acrylonitrile	250		290	116	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 66 outside limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V6ULCS Level: (low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	2500		2600	104	58-131
Chloromethane	2500		2800	112	63-120
Vinyl Chloride	2500		2700	108	61-134
Bromomethane	2500		3300	132	10-215
Chloroethane	2500		3200	128	55-146
Trichlorofluoromethane	2500		2400	96	63-126
1,1-Dichloroethene	2500		2500	100	67-127
Acetone	2500		1900	76	0-154
Methylene Chloride	2500		2500	100	62-128
Acrylonitrile	2500		11000	440*	0-100
trans-1,2-Dichloroethen	2500		2600	104	76-120
Methyl tert-butyl ether	2500		2400	96	52-130
1,1-Dichloroethane	2500		2500	100	74-118
2-Butanone	2500		2000	80	14-154
cis-1,2-Dichloroethene	2500		2600	104	83-115
2,2-Dichloropropane	2500		2600	104	64-125
Bromochloromethane	2500		2500	100	70-119
Chloroform	2500		2600	104	77-120
Tetrahydrofuran	2500		2400	96	0-100
1,1,1-Trichloroethane	2500		2600	104	72-126
1,1-Dichloropropene	2500		2600	104	71-132
Carbon Tetrachloride	2500		2600	104	69-135
1,2-Dichloroethane	2500		2400	96	65-126
Benzene	2500		2600	104	78-121
Trichloroethene	2500		2600	104	75-125
1,2-Dichloropropane	2500		2500	100	78-117
Dibromomethane	2500		2400	96	65-125
Bromodichloromethane	2500		2600	104	75-118

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V6ULCS Level: (low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
cis-1,3-Dichloropropene	2500		2500	100	78-120
4-Methyl-2-pentanone	2500		2100	84	45-141
Toluene	2500		2700	108	80-126
trans-1,3-Dichloroprope	2500		2500	100	73-123
1,1,2-Trichloroethane	2500		2400	96	66-125
1,3-Dichloropropane	2500		2300	92	76-119
Tetrachloroethene	2500		2500	100	65-134
2-Hexanone	2500		2100	84	37-136
Dibromochloromethane	2500		2500	100	76-115
1,2-Dibromoethane	2500		2400	96	72-117
Chlorobenzene	2500		2600	104	78-117
1,1,1,2-Tetrachloroetha	2500		2600	104	80-115
Ethylbenzene	2500		2600	104	79-129
Xylene (Total)	7500		7800	104	83-125
Styrene	2500		2600	104	83-122
Bromoform	2500		2500	100	67-126
Isopropylbenzene	2500		2700	108	80-135
1,1,2,2-Tetrachloroetha	2500		2200	88	70-117
Bromobenzene	2500		2600	104	79-119
1,2,3-Trichloropropane	2500		2300	92	0-154
n-Propylbenzene	2500		2500	100	64-141
2-Chlorotoluene	2500		2500	100	70-132
1,3,5-Trimethylbenzene	2500		2600	104	72-133
4-Chlorotoluene	2500		2500	100	77-122
tert-Butylbenzene	2500		2600	104	31-159
1,2,4-Trimethylbenzene	2500		2600	104	73-126
sec-Butylbenzene	2500		2600	104	68-137
4-Isopropyltoluene	2500		2600	104	66-131

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V6ULCS Level: (low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
1,3-Dichlorobenzene	2500		2600	104	75-115
1,4-Dichlorobenzene	2500		2600	104	72-110
n-Butylbenzene	2500		2600	104	66-130
1,2-Dichlorobenzene	2500		2500	100	78-113
1,2-Dibromo-3-chloropro	2500		2100	84	52-128
1,2,4-Trichlorobenzene	2500		2500	100	49-126
Hexachlorobutadiene	2500		2500	100	58-115
Naphthalene	2500		2300	92	45-130
1,2,3-Trichlorobenzene	2500		2400	96	44-131
1-Chlorohexane	2500		2500	100	0-100

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 1 out of 66 outside limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V6RLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	50		51	102	48-135
Chloromethane	50		46	92	60-118
Vinyl Chloride	50		44	88	65-113
Bromomethane	50		56	112	73-122
Chloroethane	50		50	100	72-118
Trichlorofluoromethane	50		46	92	68-129
1,1-Dichloroethene	50		48	96	67-121
Acetone	50		32	64	38-161
Methylene Chloride	50		49	98	59-132
Acrylonitrile	250		210	84	45-172
trans-1,2-Dichloroethen	50		49	98	71-124
Methyl tert-butyl ether	50		47	94	75-123
1,1-Dichloroethane	50		45	90	83-116
2-Butanone	50		39	78	64-139
cis-1,2-Dichloroethene	50		50	100	83-120
2,2-Dichloropropane	50		48	96	70-129
Bromochloromethane	50		53	106	85-124
Chloroform	50		48	96	89-118
Tetrahydrofuran	50		46	92	76-126
1,1,1-Trichloroethane	50		49	98	81-122
1,1-Dichloropropene	50		53	106	76-122
Carbon Tetrachloride	50		52	104	79-125
1,2-Dichloroethane	50		44	88	83-123
Benzene	50		48	96	81-120
Trichloroethene	50		55	110	77-121
1,2-Dichloropropane	50		46	92	81-116
Dibromomethane	50		48	96	86-124
Bromodichloromethane	50		49	98	90-114

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V6RLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
cis-1,3-Dichloropropene	50		49	98	78-119
4-Methyl-2-pentanone	50		40	80	57-138
Toluene	50		52	104	81-121
trans-1,3-Dichloroprope	50		48	96	85-118
1,1,2-Trichloroethane	50		49	98	44-159
1,3-Dichloropropane	50		46	92	79-125
Tetrachloroethene	50		54	108	73-121
2-Hexanone	50		40	80	53-145
Dibromochloromethane	50		52	104	80-124
1,2-Dibromoethane	50		49	98	80-124
Chlorobenzene	50		50	100	82-118
1,1,1,2-Tetrachloroetha	50		51	102	84-121
Ethylbenzene	50		50	100	80-122
Xylene (Total)	150		150	100	81-121
Styrene	50		50	100	77-128
Bromoform	50		57	114	77-130
Isopropylbenzene	50		52	104	58-148
1,1,2,2-Tetrachloroetha	50		43	86	76-125
Bromobenzene	50		52	104	76-124
1,2,3-Trichloropropane	50		44	88	57-140
n-Propylbenzene	50		50	100	72-119
2-Chlorotoluene	50		50	100	75-120
1,3,5-Trimethylbenzene	50		49	98	76-116
4-Chlorotoluene	50		49	98	78-116
tert-Butylbenzene	50		50	100	71-115
1,2,4-Trimethylbenzene	50		48	96	77-117
sec-Butylbenzene	50		49	98	67-117
4-Isopropyltoluene	50		49	98	68-118

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V6RLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,3-Dichlorobenzene	50		51	102	80-116
1,4-Dichlorobenzene	50		51	102	80-114
n-Butylbenzene	50		48	96	58-121
1,2-Dichlorobenzene	50		50	100	81-116
1,2-Dibromo-3-chloropro	50		40	80	71-126
1,2,4-Trichlorobenzene	50		53	106	67-114
Hexachlorobutadiene	50		53	106	50-111
Naphthalene	50		47	94	58-133
1,2,3-Trichlorobenzene	50		51	102	64-118
1-Chlorohexane	50		48	96	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 66 outside limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2ALCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
bis(2-Chloroethyl)Ether	1700		1300	76	43-104
1,3-Dichlorobenzene	1700		1300	76	40-101
1,4-Dichlorobenzene	1700		1300	76	41-102
1,2-Dichlorobenzene	1700		1400	82	41-105
2,2'-oxybis(1-Chloropro	1700		1300	76	41-105
N-Nitroso-di-n-prop.(1)	1700		1600	94	44-111
Hexachloroethane	1700		1300	76	40-102
Nitrobenzene	1700		1400	82	44-108
Isophorone	1700		1400	82	42-113
1,2,4-Trichlorobenzene	1700		1300	76	42-107
Naphthalene	1700		1400	82	44-112
4-Chloroaniline	1700		380	22	4-102
bis(2-Chloroethoxy)meth	1700		1400	82	46-108
Hexachlorobutadiene	1700		1300	76	41-108
2-Methylnaphthalene	1700		1300	76	46-110
Hexachlorocyclopentadie	1700		1400	82	10-118
2-Chloronaphthalene	1700		1400	82	52-112
2-Nitroaniline	1700		1500	88	63-117
Dimethylphthalate	1700		1500	88	62-117
Acenaphthylene	1700		1400	82	58-112
2,6-Dinitrotoluene	1700		1500	88	60-118
3-Nitroaniline	1700		720	42	30-117
Acenaphthene	1700		1400	82	53-116
Dibenzofuran	1700		1400	82	61-112
2,4-Dinitrotoluene	1700		1500	88	59-123
Diethylphthalate	1700		1500	88	61-120
4-Chlorophenyl-phenylet	1700		1500	88	59-116
Fluorene	1700		1500	88	63-115

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2ALCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
4-Nitroaniline	1700		1200	70	35-124
N-Nitrosodiphenylamine	1700		1900	112	50-150
4-Bromophenyl-phenyleth	1700		1500	88	66-110
Hexachlorobenzene	1700		1500	88	67-112
Phenanthrene	1700		1600	94	70-115
Anthracene	1700		1600	94	63-117
Carbazole	1700		1700	100	62-122
Di-n-butylphthalate	1700		1600	94	70-120
Fluoranthene	1700		1500	88	64-121
Pyrene	1700		1600	94	66-120
Butylbenzylphthalate	1700		1700	100	63-123
3,3'-Dichlorobenzidine	1700		420	25	8-124
Benzo(a)anthracene	1700		1500	88	50-129
Chrysene	1700		1500	88	41-150
bis(2-Ethylhexyl)phthal	1700		1600	94	64-115
Di-n-octylphthalate	1700		1500	88	69-137
Benzo(b)fluoranthene	1700		1400	82	61-129
Benzo(k)fluoranthene	1700		1800	106	62-130
Benzo(a)pyrene	1700		1500	88	66-119
Indeno(1,2,3-cd)pyrene	1700		1300	76	56-128
Dibenzo(a,h)anthracene	1700		1500	88	58-128
Benzo(g,h,i)perylene	1700		1500	88	32-149

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 50 outside limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2ELCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Phenol	50		14	28	0-127
bis(2-Chloroethyl)Ether	50		35	70	46-109
2-Chlorophenol	50		34	68	22-117
1,3-Dichlorobenzene	50		38	76	28-103
1,4-Dichlorobenzene	50		38	76	28-104
1,2-Dichlorobenzene	50		39	78	29-107
2-Methylphenol	50		32	64	40-104
2,2'-oxybis(1-Chloropro	50		38	76	10-134
4-Methylphenol	50		27	54	35-106
N-Nitroso-di-n-prop.(1)	50		43	86	44-122
Hexachloroethane	50		38	76	24-104
Nitrobenzene	50		37	74	47-112
Isophorone	50		42	84	48-118
2-Nitrophenol	50		36	72	29-122
2,4-Dimethylphenol	50		37	74	14-109
2,4-Dichlorophenol	50		38	76	31-122
1,2,4-Trichlorobenzene	50		39	78	33-108
Naphthalene	50		40	80	38-117
4-Chloroaniline	50		15	30	0-152
bis(2-Chloroethoxy)meth	50		39	78	49-112
Hexachlorobutadiene	50		39	78	28-109
4-Chloro-3-Methylphenol	50		40	80	48-117
2-Methylnaphthalene	50		40	80	43-113
Hexachlorocyclopentadie	50		40	80	34-103
2,4,6-Trichlorophenol	50		40	80	34-127
2,4,5-Trichlorophenol	50		41	82	32-131
2-Chloronaphthalene	50		41	82	47-116
2-Nitroaniline	50		39	78	51-120

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2ELCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dimethylphthalate	50		41	82	53-124
Acenaphthylene	50		42	84	50-119
2,6-Dinitrotoluene	50		41	82	52-122
3-Nitroaniline	50		37	74	47-115
Acenaphthene	50		43	86	50-121
2,4-Dinitrophenol	50		31	62	0-144
4-Nitrophenol	50		13	26	0-160
Dibenzofuran	50		40	80	51-122
2,4-Dinitrotoluene	50		41	82	52-126
Diethylphthalate	50		42	84	53-126
4-Chlorophenyl-phenylet	50		42	84	50-124
Fluorene	50		43	86	52-125
4-Nitroaniline	50		42	84	47-117
4,6-Dinitro-2-methylphe	50		37	74	3-151
N-Nitrosodiphenylamine	50		54	108	50-150
4-Bromophenyl-phenyleth	50		40	80	51-124
Hexachlorobenzene	50		43	86	52-124
Pentachlorophenol	50		37	74	5-125
Phenanthrene	50		43	86	52-128
Anthracene	50		43	86	52-127
Carbazole	50		55	110	54-126
Di-n-butylphthalate	50		42	84	56-132
Fluoranthene	50		41	82	53-130
Pyrene	50		41	82	53-131
Butylbenzylphthalate	50		40	80	54-128
3,3'-Dichlorobenzidine	50		37	74	41-117
Benzo(a)anthracene	50		41	82	56-124
Chrysene	50		37	74	53-123

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2ELCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
bis(2-Ethylhexyl)phthal	50		46	92	56-127
Di-n-octylphthalate	50		35	70	59-138
Benzo(b)fluoranthene	50		32	64	58-126
Benzo(k)fluoranthene	50		40	80	60-124
Benzo(a)pyrene	50		33	66	61-121
Indeno(1,2,3-cd)pyrene	50		30	60	23-152
Dibenzo(a,h)anthracene	50		32	64	60-122
Benzo(g,h,i)perylene	50		32	64	57-124

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 64 outside limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2FLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Phenol	50		11	22	0-127
bis(2-Chloroethyl)Ether	50		35	70	46-109
2-Chlorophenol	50		34	68	22-117
1,3-Dichlorobenzene	50		35	70	28-103
1,4-Dichlorobenzene	50		35	70	28-104
1,2-Dichlorobenzene	50		36	72	29-107
2-Methylphenol	50		30	60	40-104
2,2'-oxybis(1-Chloropro	50		37	74	10-134
4-Methylphenol	50		25	50	35-106
N-Nitroso-di-n-prop.(1)	50		39	78	44-122
Hexachloroethane	50		34	68	24-104
Nitrobenzene	50		36	72	47-112
Isophorone	50		40	80	48-118
2-Nitrophenol	50		36	72	29-122
2,4-Dimethylphenol	50		34	68	14-109
2,4-Dichlorophenol	50		37	74	31-122
1,2,4-Trichlorobenzene	50		36	72	33-108
Naphthalene	50		38	76	38-117
4-Chloroaniline	50		13	26	0-152
bis(2-Chloroethoxy)meth	50		38	76	49-112
Hexachlorobutadiene	50		35	70	28-109
4-Chloro-3-Methylphenol	50		39	78	48-117
2-Methylnaphthalene	50		39	78	43-113
Hexachlorocyclopentadie	50		36	72	34-103
2,4,6-Trichlorophenol	50		39	78	34-127
2,4,5-Trichlorophenol	50		42	84	32-131
2-Chloronaphthalene	50		40	80	47-116
2-Nitroaniline	50		42	84	51-120

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2FLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dimethylphthalate	50		42	84	53-124
Acenaphthylene	50		42	84	50-119
2,6-Dinitrotoluene	50		42	84	52-122
3-Nitroaniline	50		41	82	47-115
Acenaphthene	50		43	86	50-121
2,4-Dinitrophenol	50		38	76	0-144
4-Nitrophenol	50		14	28	0-160
Dibenzofuran	50		42	84	51-122
2,4-Dinitrotoluene	50		46	92	52-126
Diethylphthalate	50		45	90	53-126
4-Chlorophenyl-phenylet	50		45	90	50-124
Fluorene	50		46	92	52-125
4-Nitroaniline	50		53	106	47-117
4,6-Dinitro-2-methylphe	50		39	78	3-151
N-Nitrosodiphenylamine	50		54	108	50-150
4-Bromophenyl-phenyleth	50		40	80	51-124
Hexachlorobenzene	50		42	84	52-124
Pentachlorophenol	50		39	78	5-125
Phenanthrene	50		44	88	52-128
Anthracene	50		44	88	52-127
Carbazole	50		65	130*	54-126
Di-n-butylphthalate	50		44	88	56-132
Fluoranthene	50		46	92	53-130
Pyrene	50		38	76	53-131
Butylbenzylphthalate	50		40	80	54-128
3,3'-Dichlorobenzidine	50		39	78	41-117
Benzo(a)anthracene	50		43	86	56-124
Chrysene	50		39	78	53-123

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2FLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
bis(2-Ethylhexyl)phthal	50		46	92	56-127
Di-n-octylphthalate	50		34	68	59-138
Benzo(b)fluoranthene	50		34	68	58-126
Benzo(k)fluoranthene	50		39	78	60-124
Benzo(a)pyrene	50		35	70	61-121
Indeno(1,2,3-cd)pyrene	50		41	82	23-152
Dibenzo(a,h)anthracene	50		37	74	60-122
Benzo(g,h,i)perylene	50		37	74	57-124

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 1 out of 64 outside limits

COMMENTS:

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2ULCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Phenol	1700		1200	70	45-109
bis(2-Chloroethyl)Ether	1700		1100	65	43-104
2-Chlorophenol	1700		1200	70	43-107
1,3-Dichlorobenzene	1700		1000	59	40-101
1,4-Dichlorobenzene	1700		1000	59	41-102
1,2-Dichlorobenzene	1700		1100	65	41-105
2-Methylphenol	1700		1200	70	45-108
2,2'-oxybis(1-Chloropro	1700		1100	65	41-105
4-Methylphenol	1700		1200	70	48-109
N-Nitroso-di-n-prop.(1)	1700		1300	76	44-111
Hexachloroethane	1700		1000	59	40-102
Nitrobenzene	1700		1000	59	44-108
Isophorone	1700		1200	70	42-113
2-Nitrophenol	1700		1000	59	42-111
2,4-Dimethylphenol	1700		1000	59	37-107
2,4-Dichlorophenol	1700		1100	65	49-110
1,2,4-Trichlorobenzene	1700		1000	59	42-107
Naphthalene	1700		1100	65	44-112
4-Chloroaniline	1700		120	7	4-102
bis(2-Chloroethoxy)meth	1700		1100	65	46-108
Hexachlorobutadiene	1700		1000	59	41-108
4-Chloro-3-Methylphenol	1700		1200	70	56-117
2-Methylnaphthalene	1700		1100	65	46-110
Hexachlorocyclopentadie	1700		670	39	10-118
2,4,6-Trichlorophenol	1700		1100	65	53-115
2,4,5-Trichlorophenol	1700		1200	70	59-113
2-Chloronaphthalene	1700		1100	65	52-112
2-Nitroaniline	1700		1100	65	63-117

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2ULCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Dimethylphthalate	1700		1200	70	62-117
Acenaphthylene	1700		1100	65	58-112
2,6-Dinitrotoluene	1700		1200	70	60-118
3-Nitroaniline	1700		460	27*	30-117
Acenaphthene	1700		1100	65	53-116
2,4-Dinitrophenol	1700		1400	82	15-136
4-Nitrophenol	1700		1100	65	50-129
Dibenzofuran	1700		1100	65	61-112
2,4-Dinitrotoluene	1700		1200	70	59-123
Diethylphthalate	1700		1200	70	61-120
4-Chlorophenyl-phenylet	1700		1200	70	59-116
Fluorene	1700		1200	70	63-115
4-Nitroaniline	1700		820	48	35-124
4,6-Dinitro-2-methylphe	1700		1300	76	33-130
N-Nitrosodiphenylamine	1700		1400	82	50-150
4-Bromophenyl-phenyleth	1700		1100	65*	66-110
Hexachlorobenzene	1700		1200	70	67-112
Pentachlorophenol	1700		1200	70	19-130
Phenanthrene	1700		1200	70	70-115
Anthracene	1700		1000	59*	63-117
Carbazole	1700		1300	76	62-122
Di-n-butylphthalate	1700		1200	70	70-120
Fluoranthene	1700		1200	70	64-121
Pyrene	1700		1200	70	66-120
Butylbenzylphthalate	1700		1300	76	63-123
3,3'-Dichlorobenzidine	1700		130	8	8-124
Benzo(a)anthracene	1700		1200	70	50-129
Chrysene	1700		1200	70	41-150

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2ULCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
bis(2-Ethylhexyl)phthal	1700		1200	70	64-115
Di-n-octylphthalate	1700		1300	76	69-137
Benzo(b)fluoranthene	1700		1300	76	61-129
Benzo(k)fluoranthene	1700		1500	88	62-130
Benzo(a)pyrene	1700		1100	65*	66-119
Indeno(1,2,3-cd)pyrene	1700		1200	70	56-128
Dibenzo(a,h)anthracene	1700		1300	76	58-128
Benzo(g,h,i)perylene	1700		1300	76	32-149

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2ULCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	1700	1100	65	7	40	45-109
bis(2-Chloroethyl)Ether	1700	1000	59	10	40	43-104
2-Chlorophenol	1700	1000	59	17	40	43-107
1,3-Dichlorobenzene	1700	990	58	2	40	40-101
1,4-Dichlorobenzene	1700	970	57	3	40	41-102
1,2-Dichlorobenzene	1700	1000	59	10	40	41-105
2-Methylphenol	1700	1000	59	17	40	45-108
2,2'-oxybis(1-Chloropro	1700	1000	59	10	40	41-105
4-Methylphenol	1700	1100	65	7	40	48-109
N-Nitroso-di-n-prop.(1)	1700	1200	70	8	40	44-111
Hexachloroethane	1700	980	58	2	40	40-102
Nitrobenzene	1700	1000	59	0	40	44-108
Isophorone	1700	1100	65	7	40	42-113
2-Nitrophenol	1700	980	58	2	40	42-111
2,4-Dimethylphenol	1700	560	33*	56*	40	37-107
2,4-Dichlorophenol	1700	1100	65	0	40	49-110
1,2,4-Trichlorobenzene	1700	1000	59	0	40	42-107
Naphthalene	1700	1000	59	10	40	44-112
4-Chloroaniline	1700	260	15	73*	40	4-102
bis(2-Chloroethoxy)meth	1700	1000	59	10	40	46-108
Hexachlorobutadiene	1700	980	58	2	40	41-108
4-Chloro-3-Methylphenol	1700	1100	65	7	40	56-117
2-Methylnaphthalene	1700	1000	59	10	40	46-110
Hexachlorocyclopentadie	1700	530	31	23	40	10-118
2,4,6-Trichlorophenol	1700	1000	59	10	40	53-115
2,4,5-Trichlorophenol	1700	1100	65	7	40	59-113
2-Chloronaphthalene	1700	1100	65	0	40	52-112
2-Nitroaniline	1700	1100	65	0	40	63-117

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2ULCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dimethylphthalate	1700	1100	65	7	40	62-117
Acenaphthylene	1700	330	19*	110*	40	58-112
2,6-Dinitrotoluene	1700	1100	65	7	40	60-118
3-Nitroaniline	1700	790	46	52*	40	30-117
Acenaphthene	1700	1100	65	0	40	53-116
2,4-Dinitrophenol	1700	1300	76	8	40	15-136
4-Nitrophenol	1700	1100	65	0	40	50-129
Dibenzofuran	1700	1100	65	0	40	61-112
2,4-Dinitrotoluene	1700	1200	70	0	40	59-123
Diethylphthalate	1700	1200	70	0	40	61-120
4-Chlorophenyl-phenylet	1700	1100	65	7	40	59-116
Fluorene	1700	1100	65	7	40	63-115
4-Nitroaniline	1700	930	55	14	40	35-124
4,6-Dinitro-2-methylphe	1700	1200	70	8	40	33-130
N-Nitrosodiphenylamine	1700	1300	76	8	40	50-150
4-Bromophenyl-phenyleth	1700	1100	65*	0	40	66-110
Hexachlorobenzene	1700	1100	65*	7	40	67-112
Pentachlorophenol	1700	1100	65	7	40	19-130
Phenanthrene	1700	1200	70	0	40	70-115
Anthracene	1700	1000	59*	0	40	63-117
Carbazole	1700	1300	76	0	40	62-122
Di-n-butylphthalate	1700	1200	70	0	40	70-120
Fluoranthene	1700	1200	70	0	40	64-121
Pyrene	1700	1200	70	0	40	66-120
Butylbenzylphthalate	1700	1300	76	0	40	63-123
3,3'-Dichlorobenzidine	1700	520	30	116*	40	8-124
Benzo(a)anthracene	1700	1200	70	0	40	50-129
Chrysene	1700	1200	70	0	40	41-150

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2ULCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
bis(2-Ethylhexyl)phthal	1700	1200	70	0	40	64-115
Di-n-octylphthalate	1700	1200	70	8	40	69-137
Benzo(b)fluoranthene	1700	1300	76	0	40	61-129
Benzo(k)fluoranthene	1700	1400	82	7	40	62-130
Benzo(a)pyrene	1700	1200	70	7	40	66-119
Indeno(1,2,3-cd)pyrene	1700	1200	70	0	40	56-128
Dibenzo(a,h)anthracene	1700	1300	76	0	40	58-128
Benzo(g,h,i)perylene	1700	1300	76	0	40	32-149

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 5 out of 64 outside limits
Spike Recovery: 9 out of 128 outside limits

COMMENTS: _____

FORM 3
SOIL PESTICIDE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: P4ALCS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
alpha-BHC	6.7		7.2	107	50-123
beta-BHC	6.7		7.4	110	42-154
delta-BHC	6.7		5.1	76	46-135
gamma-BHC (Lindane)	6.7		7.5	112	55-122
Heptachlor	6.7		7.9	118	42-148
Aldrin	6.7		7.6	113	52-129
Heptachlor epoxide	6.7		7.6	113	20-172
Endosulfan I	6.7		7.7	115*	6-114
Dieldrin	13		15	115	55-130
4,4'-DDE	13		16	123	50-142
Endrin	13		10	77	60-155
Endosulfan II	13		17	131	10-147
4,4'-DDD	13		14	108	25-143
Endosulfan sulfate	13		15	115	45-159
4,4'-DDT	13		17	131	54-143
Methoxychlor	67		82	122	48-151
Endrin ketone	13		22	169*	47-157
Endrin aldehyde	13		11	85	40-132
alpha-Chlordane	6.7		7.8	116	58-123
gamma-Chlordane	6.7		7.5	112	55-126

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL PESTICIDE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: P4ALCS

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	6.7	6.8	101	6	40	50-123
beta-BHC	6.7	7.5	112	2	40	42-154
delta-BHC	6.7	4.9	73	4	40	46-135
gamma-BHC (Lindane)	6.7	7.1	106	6	40	55-122
Heptachlor	6.7	7.7	115	2	40	42-148
Aldrin	6.7	7.2	107	5	40	52-129
Heptachlor epoxide	6.7	7.6	113	0	40	20-172
Endosulfan I	6.7	7.8	116*	1	40	6-114
Dieldrin	*13*	*16*	*123*	*7*	*40*	*55-130*
4,4'-DDE	13	16	123	0	40	50-142
Endrin	13	18	138	57*	40	60-155
Endosulfan II	13	17	131	0	40	10-147
4,4'-DDD	13	15	115	6	40	25-143
Endosulfan sulfate	13	16	123	7	40	45-159
4,4'-DDT	13	17	131	0	40	54-143
Methoxychlor	67	82	122	0	40	48-151
Endrin ketone	13	18	138	20	40	47-157
Endrin aldehyde	13	14	108	24	40	40-132
alpha-Chlordane	6.7	7.7	115	1	40	58-123
gamma-Chlordane	6.7	7.2	107	4	40	55-126

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 20 outside limits
Spike Recovery: 3 out of 40 outside limits

COMMENTS: _____

FORM 3
WATER PCB LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: B1ALCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Aroclor-1016	2.5		2.0	80	45-162
Aroclor-1260	2.5		2.2	88	54-159

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	2.5	2.1	84	5	40	45-162
Aroclor-1260	2.5	2.2	88	0	40	54-159

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM 3
WATER PCB LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: B1BLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Aroclor-1016	10		8.5	85	62-155
Aroclor-1260	10		8.0	80	56-173

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	10	8.0	80	6	40	62-155
Aroclor-1260	10	7.4	74	8	40	56-173

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM 3
SOIL PCB LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: B1CLCS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aroclor-1016	330		230	70	62-155
Aroclor-1260	330		230	70	56-173

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	330	270	82	16	40	62-155
Aroclor-1260	330	280	85	19	40	56-173

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM 3
WATER PCB LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: B1DLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Aroclor-1016	10		9.4	94	45-162
Aroclor-1260	10		9.7	97	54-159

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	10	9.4	94	0	40	45-162
Aroclor-1260	10	9.8	98	1	40	54-159

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM III PCB

FORM 3
WATER PCB LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: B1ELCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Aroclor-1016	33		31	94	45-162
Aroclor-1260	33		32	97	54-159

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	33	30	91	3	40	45-162
Aroclor-1260	33	30	91	6	40	54-159

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM III PCB

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO. AOC2E6S

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury	75-125	4.4170		0.1440	U	5.60	78.9		CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

Form V (Part 1) - IN SW846

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO. AOC2TB24S

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): SOIL Level (low/med): MED

% Solids for Sample: 91.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	8.1135		1.6755		23.15	27.8	N	P
Arsenic	75-125	29.8935		8.4391		23.15	92.7		P
Barium	75-125	629.9707		183.0289		462.96	96.5		P
Beryllium	75-125	10.4862		0.1018	U	11.55	90.8		P
Cadmium	75-125	10.7088		0.8550		11.55	85.3		P
Calcium									NR
Chromium	75-125	121.6958		77.6272		46.30	95.2		P
Cobalt	75-125	111.5343		16.9207		115.49	81.9		P
Copper	75-125	102.0515		41.7989		57.49	104.8		P
Iron									NR
Lead	75-125	34.1775		12.0848		23.15	95.4		P
Magnesium									NR
Manganese									NR
Mercury	75-125	0.7851		0.0174	U	0.87	90.2		CV
Nickel	75-125	151.8346		46.0493		115.49	91.6		P
Potassium									NR
Selenium	75-125	14.9342		0.4070	U	23.15	64.5	N	P
Silver	75-125	49.9606		0.1018	U	57.49	86.9		P
Sodium									NR
Thallium	75-125	18.9160		0.2035	U	23.15	81.7		P
Vanadium	75-125	176.8980		70.4124		115.49	92.2		P
Zinc	75-125	177.8662		76.3271		115.49	87.9		P
Cyanide									NR

Comments:

Form V (Part 1) - IN SW846

U.S. EPA - CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.
AOC2TB24A

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): SOIL Level (low/med): MED

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		438.97		32.93		455.0	89.2		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium		335.74		8.00	U	455.0	73.8		P
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.
AOC2E6D

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead								NR
Magnesium								NR
Manganese								NR
Mercury		0.1440	U	0.1440	U			CV
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.
AOC2TB24D

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): SOIL Level (low/med): MED

% Solids for Sample: 91.0 % Solids for Duplicate: 91.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		19273.4075		22520.3704		15.5		P
Antimony	1.0175	1.6755		1.8382		9.3		P
Arsenic		8.4391		9.5109		11.9		P
Barium		183.0289		235.4577		25.1	*	P
Beryllium		0.1018	U	0.1018	U			P
Cadmium	0.3053	0.8550		1.0400		19.5		P
Calcium		3750.4055		4327.3678		14.3		P
Chromium		77.6272		85.9185		10.1		P
Cobalt		16.9207		19.0241		11.7		P
Copper		41.7989		48.9936		15.8		P
Iron		40059.8719		40269.6125		0.5		P
Lead		12.0848		13.8976		14.0		P
Magnesium		11615.8071		13443.0532		14.6		P
Manganese		751.6886		791.1166		5.1		P
Mercury		0.0174	U	0.0167	U			CV
Nickel		46.0493		49.6099		7.4		P
Potassium		7978.6998		7824.6525		1.9		P
Selenium		0.4070	U	0.4070	U			P
Silver		0.1018	U	0.1018	U			P
Sodium		276.6144		331.3615		18.0		P
Thallium		0.2035	U	0.2035	U			P
Vanadium		70.4124		81.3940		14.5		P
Zinc		76.3271		86.5828		12.6		P
Cyanide								NR

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK1K

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID: V1F1876 Lab Sample ID: V1B1230A

Date Analyzed: 12/30/02 Time Analyzed: 1307

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: V1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V1KLCS	V1L1230A	V1F1877	1414
02	V1KLCSD	V1L1230B	V1F1878	1445
03	AOC3CTCP6	A1905-01A	V1F1879	1519
04	AOC3SSTB4902	A1905-04A	V1F1880	1550
05	AOC3SSTB5312	A1905-05A	V1F1881	1621
06	AOC3SSTB5402	A1905-06A	V1F1882	1651
07	AOC3CTCP7	A1905-02A	V1F1883	1721
08	AOC3CTCP8	A1905-03A	V1F1884	1751
09	AOC7SSTB6578	A1905-17A	V1F1886	1851
10	AOC6SSTB7167	A1905-22A	V1F1887	1920
11	AOC5ASSTB700	A1905-23A	V1F1888	1951
12	AOC5ASSTB697	A1905-24A	V1F1889	2021
13	AOC5ASSTB680	A1905-25A	V1F1890	2050
14	AOC3CTCP6RE	A1905-01ARE	V1F1891	2120
15	AOC2TB5512	A1905-27A	V1F1892	2150
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK1K

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: V1B1230A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1876

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	12	
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK1K

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: V1B1230A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1876

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U
107-13-1	Acrylonitrile	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK1K

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: V1B1230A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1876

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK1L

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID: V1F1902 Lab Sample ID: V1B1231A

Date Analyzed: 12/31/02 Time Analyzed: 1017

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: V1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V1LLCS	V1L1231A	V1F1903	1052
02	AOC3CTCP7RE	A1905-02ARE	V1F1905	1153
03	AOCSASSTB680	A1905-25ARE	V1F1906	1222
04	AOCSSSTB6267	A1905-15A	V1F1911	1606
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK1L

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: V1B1231A
Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1902
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 12/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	7	
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK1L

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: V1B1231A
Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1902
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 12/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U
107-13-1	Acrylonitrile	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK1L

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: V1B1231A
Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1902
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 12/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK6R

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Lab File ID: V6C4182 Lab Sample ID: V6B1229A
Date Analyzed: 12/29/02 Time Analyzed: 1548
GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N
Instrument ID: V6

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V6RLCS	V6L1229A	V6C4183	1620
02	AOC3T2	A1905-09A	V6C4194	2129
03	AOC5E7	A1905-14A	V6C4195	2156
04	AOC5WTB62W	A1905-16A	V6C4196	2223
05	AOC7WTB65GW	A1905-18A	V6C4197	2250
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

page 1 of 1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK6R

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: V6B1229A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4182
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 12/29/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK6R

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: V6B1229A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4182
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 12/29/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK6R

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: V6B1229A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4182
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 12/29/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK6U

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Lab File ID: V6C4242 Lab Sample ID: V6B1231A
Date Analyzed: 12/31/02 Time Analyzed: 1100
GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N
Instrument ID: V6

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V6ULCS	V6L1231A	V6C4244	1258
02	AOC3CTCP8DL	A1905-03ADL	V6C4246	1400
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK6U

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: V6B1231A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V6C4242

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	250	U
74-87-3	Chloromethane	250	U
75-01-4	Vinyl Chloride	250	U
74-83-9	Bromomethane	250	U
75-00-3	Chloroethane	250	U
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	250	U
67-64-1	Acetone	250	U
75-09-2	Methylene Chloride	82	J
107-13-1	Acrylonitrile	250	U
156-60-5	trans-1,2-Dichloroethene	250	U
1634-04-4	Methyl tert-butyl ether	250	U
75-34-3	1,1-Dichloroethane	250	U
78-93-3	2-Butanone	250	U
156-59-2	cis-1,2-Dichloroethene	250	U
590-20-7	2,2-Dichloropropane	250	U
74-97-5	Bromochloromethane	250	U
67-66-3	Chloroform	250	U
109-99-9	Tetrahydrofuran	250	U
71-55-6	1,1,1-Trichloroethane	250	U
563-58-6	1,1-Dichloropropene	250	U
56-23-5	Carbon Tetrachloride	250	U
107-06-2	1,2-Dichloroethane	250	U
71-43-2	Benzene	250	U
79-01-6	Trichloroethene	250	U
78-87-5	1,2-Dichloropropane	250	U
74-95-3	Dibromomethane	250	U
75-27-4	Bromodichloromethane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-10-1	4-Methyl-2-pentanone	250	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
79-00-5	1,1,2-Trichloroethane	250	U
142-28-9	1,3-Dichloropropane	250	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK6U

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: V6B1231A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V6C4242

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	250	U
591-78-6	2-Hexanone	250	U
124-48-1	Dibromochloromethane	250	U
106-93-4	1,2-Dibromoethane	250	U
108-90-7	Chlorobenzene	250	U
630-20-6	1,1,1,2-Tetrachloroethane	250	U
100-41-4	Ethylbenzene	250	U
	m,p-Xylene	250	U
95-47-6	o-Xylene	250	U
1330-20-7	Xylene (Total)	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
98-82-8	Isopropylbenzene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
108-86-1	Bromobenzene	250	U
96-18-4	1,2,3-Trichloropropane	250	U
103-65-1	n-Propylbenzene	250	U
95-49-8	2-Chlorotoluene	250	U
108-67-8	1,3,5-Trimethylbenzene	250	U
106-43-4	4-Chlorotoluene	250	U
98-06-6	tert-Butylbenzene	250	U
95-63-6	1,2,4-Trimethylbenzene	250	U
135-98-8	sec-Butylbenzene	250	U
99-87-6	4-Isopropyltoluene	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
104-51-8	n-Butylbenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U
87-68-3	Hexachlorobutadiene	250	U
91-20-3	Naphthalene	250	U
87-61-6	1,2,3-Trichlorobenzene	250	U
544-10-5	1-Chlorohexane	250	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK6U

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: V6B1231A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V6C4242

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK2A

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID: S2D1265 Lab Sample ID: MB-5197

Instrument ID: S2 Date Extracted: 01/20/03

Matrix: (soil/water) SOIL Date Analyzed: 01/21/03

Level: (low/med) LOW Time Analyzed: 1237

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	S2ALCS	LCS-5197	S2D1267	01/21/03
02	AOC3CTCP6RE	A1905-01DRE	S2D1271	01/21/03
03	AOC3CTCP7RE	A1905-02DRE	S2D1272	01/21/03
04	AOC3CTCP8RE	A1905-03DRE	S2D1273	01/21/03
05	AOC3SST85312	A1905-05CRE	S2D1274	01/21/03
06	AOC3SST85402	A1905-06CRE	S2D1275	01/21/03
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK2A

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: MB-5197
Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D1265
Level: (low/med) LOW Date Received: _____
% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/20/03
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	670	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	670	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	670	U
83-32-9	Acenaphthene	330	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK2A

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: MB-5197
Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D1265
Level: (low/med) LOW Date Received: _____
% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/20/03
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	670	U
100-02-7	4-Nitrophenol	670	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	670	U
534-52-1	4,6-Dinitro-2-methylphenol	670	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	670	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SBLK2A

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: MB-5197
Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D1265
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 01/20/03
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
SBLK2B

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Lab File ID: S2D0818 Lab Sample ID: MB-4910
Instrument ID: S2 Date Extracted: 12/24/02
Matrix: (soil/water) WATER Date Analyzed: 12/26/02
Level: (low/med) LOW Time Analyzed: 1901

THIS METHOD BLANK APPLIES TO THE POLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	S2ELCS	LCS-4910	S2D0819	12/26/02
02	AOC2E6	A1905-26C	S2D0985	01/06/03
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK2E

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: MB-4910
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0818
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/26/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	2	J
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	3	J
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK2E

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: MB-4910
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0818
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/26/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SBLK2E

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: MB-4910
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0818
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/26/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC OLM03.0

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
SBLK2F

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Lab File ID: S2D0838 Lab Sample ID: MB-4921
Instrument ID: S2 Date Extracted: 12/26/02
Matrix: (soil/water) WATER Date Analyzed: 12/27/02
Level:(low/med) LOW Time Analyzed: 1120

THIS METHOD BLANK APPLIES TO THE POLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	S2FLCS	LCS-4921	S2D0842	12/27/02
02	AOC3BB3	A1905-07A	S2D0980	01/06/03
03	AOC3BB4	A1905-08A	S2D0981	01/06/03
04	AOC5E7	A1905-14D	S2D0982	01/06/03
05	AOC5WTB62W	A1905-16E	S2D0983	01/06/03
06	AOC7WTB65GW	A1905-18E	S2D0984	01/06/03
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM IV SV OLM03.0

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK2F

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: MB-4921

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0838

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/27/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK2F

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: MB-4921

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0838

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/27/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	3	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SBLK2F

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: MB-4921

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0838

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/27/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
SBLK2U

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID: S2D1206 Lab Sample ID: MB-4928

Instrument ID: S2 Date Extracted: 12/27/02

Matrix: (soil/water) SOIL Date Analyzed: 01/18/03

Level:(low/med) LOW Time Analyzed: 1556

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	AOC3CTCP6	A1905-01D	S2D0950	01/03/03
02	AOC3CTCP7	A1905-02D	S2D0951	01/03/03
03	AOC3CTCP8	A1905-03D	S2D0952	01/04/03
04	AOC3SSTB5312	A1905-05C	S2D0953	01/04/03
05	AOC3SSTB5402	A1905-06C	S2D0954	01/04/03
06	AOC3SSD5A45	A1905-11A	S2D0955	01/04/03
07	AOC3SSD5B45	A1905-12A	S2D0956	01/04/03
08	AOC3SSTB4945	A1905-13A	S2D0957	01/04/03
09	AOC2TB24	A1905-28A	S2D0958	01/04/03
10	S2ULCS	LCS-4928	S2D1207	01/18/03
11	S2ULCSD	LCSD-4928	S2D1208	01/18/03
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK2U

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: MB-4928

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D1206

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:12/27/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/18/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	670	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	670	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	670	U
83-32-9	Acenaphthene	330	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK2U

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: MB-4928

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D1206

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:12/27/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/18/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	670	U
100-02-7	4-Nitrophenol	670	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	670	U
534-52-1	4,6-Dinitro-2-methylphenol	670	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	670	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SBLK2U

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: MB-4928

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D1206

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/27/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/18/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.47	1100	J
2.		UNKNOWN	10.28	180	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM 4
PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.
PBLK4A

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab Sample ID: MB-4929 Lab File ID: E4B7023F

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SONC

Sulfur Cleanup (Y/N) Y Date Extracted: 12/27/02

Date Analyzed (1): 01/09/03 Date Analyzed (2): 01/09/03

Time Analyzed (1): 0302 Time Analyzed (2): 0302

Instrument ID (1): E4 Instrument ID (2): E4

GC Column (1): CLPPEST2 ID: 0.53(mm) GC Column (2): CLPPEST1 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	P4ALCS	LCS-4929	01/09/03	01/09/03
02	P4ALCSD	LCSD-4929	01/09/03	01/09/03
03	AOC3CTCP6	A1905-01D	01/09/03	01/09/03
04	AOC3CTCP7	A1905-02D	01/09/03	01/09/03
05	AOC3CTCP8	A1905-03D	01/09/03	01/09/03
06	AOC3SSTB4902	A1905-04C	01/09/03	01/09/03
07	AOC3SSTB5312	A1905-05C	01/09/03	01/09/03
08	AOC3SSTB5402	A1905-06C	01/09/03	01/09/03
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: 981K4A

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: MB-4929
Sample wt/vol: 30.0 (g/mL) G Lab File ID: E457023F
% Moisture: 0 decanted: (Y/N) N Date Received:
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/27/02
Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/09/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-36-3	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U

FORM I PEST

FORM 4
PCB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.: BBLK1D

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Lab Sample ID: MB-4911 Lab File ID: E1D8376F
Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc) SEPF
Sulfur Cleanup (Y/N) Y Date Extracted: 12/24/02
Date Analyzed (1): 12/31/02 Date Analyzed (2): 12/31/02
Time Analyzed (1): 1255 Time Analyzed (2): 1255
Instrument ID (1): E1 Instrument ID (2): E1
GC Column (1): RTXCLPPEST 2 ID: 0.53(mm) GC Column (2): RTXCLPPEST ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	B1DLCS	LCS-4911	12/31/02	12/31/02
02	B1DLCSD	LCSD-4911	12/31/02	12/31/02
03	AOC2B6	A1905-26C	12/31/02	12/31/02
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

FORM IV PCB

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: BBLK1D

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: MB-4911
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E1D8376F
% Moisture: _____ decanted: (Y/N)___ Date Received:
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/24/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

FORM 4
PCB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.: BBLK1F

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Lab Sample ID: MB-4924 Lab File ID: E1D8510F
Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc) SEPF
Sulfur Cleanup (Y/N) N Date Extracted: 12/26/02
Date Analyzed (1): 01/14/03 Date Analyzed (2): 01/14/03
Time Analyzed (1): 0938 Time Analyzed (2): 0938
Instrument ID (1): E1 Instrument ID (2): E1
GC Column (1): RTXCLPPEST 2 ID: 0.53(mm) GC Column (2): RTXCLPPEST ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	ACC5WTB62W	A1905-16D	01/14/03	01/14/03
02	ACC7WTB6SGW	A1905-18D	01/14/03	01/14/03
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

FORM IV PCB

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
BBLK1F

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: MB-4924
Sample wt/vol: 500.0 (g/ml) ML Lab File ID: E1D8510F
% Moisture: _____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:12/26/02
Concentrated Extract Volume: 500(uL) Date Analyzed: 01/14/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.10	U
11104-28-2	Aroclor-1221	0.10	U
11141-16-5	Aroclor-1232	0.10	U
53469-21-9	Aroclor-1242	0.10	U
12672-29-6	Aroclor-1248	0.10	U
11097-69-1	Aroclor-1254	0.10	U
11096-82-5	Aroclor-1260	0.10	U

FORM 4
PCB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.
BBLK1C

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Lab Sample ID: MB-4929 Lab File ID: E1D8432F
Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SONC
Sulfur Cleanup (Y/N) Y Date Extracted: 12/27/02
Date Analyzed (1): 01/06/03 Date Analyzed (2): 01/06/03
Time Analyzed (1): 1243 Time Analyzed (2): 1243
Instrument ID (1): E1 Instrument ID (2): E1
GC Column (1): RTXCLPPEST 2 ID: 0.53(mm) GC Column (2): RTXCLPPEST ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	AOC5ASSTB695	A1905-19A	12/30/02	12/30/02
02	AOC5ASSD7A56	A1905-20A	12/30/02	12/30/02
03	AOC5ASSD7B56	A1905-21A	12/30/02	12/30/02
04	AOC5ASSTB700	A1905-23C	12/30/02	12/30/02
05	AOC5ASSTB680	A1905-25C	12/31/02	12/31/02
06	AOC2TB24	A1905-28A	12/31/02	12/31/02
07	AOC3SSTB5402	A1905-06C	01/06/03	01/06/03
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
BBLK1C

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: MB-4929
Sample wt/vol: 30.0 (g/mL) G Lab File ID: E1D8432F
% Moisture: 0 decanted: (Y/N) N Date Received: _____
Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/27/02
Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

FORM 4
PCB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.
BBLK1B

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Lab Sample ID: MB-4933 Lab File ID: E1D8345F
Matrix (soil/water) WATER Extraction:(SepF/Cont/Sonc) SEPF
Sulfur Cleanup (Y/N) Y *Date Extracted: 12/26/02*
Date Analyzed (1): 12/30/02 Date Analyzed (2): 12/30/02
Time Analyzed (1): 1327 Time Analyzed (2): 1327
Instrument ID (1): E1 Instrument ID (2): E1
GC Column (1): RTXCLPPEST 2 ID: 0.53(mm) GC Column (2): RTXCLPPEST ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	B1BLCS	LCS-4933	12/30/02	12/30/02
02	B1BLCSD	LCSD-4933	12/30/02	12/30/02
03	AOC3BB3	A1905-07A	12/30/02	12/30/02
04	AOC3BB4	A1905-08A	12/30/02	12/30/02
05	AOC5E7	A1905-14D	12/30/02	12/30/02
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
BBLK1B

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: MB-4933
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E1D8345F
% Moisture: _____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/28/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/30/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM 4
PCB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.
BBLK1E

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Lab Sample ID: MB-4935 Lab File ID: E1D8397F
Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc) SEPF
Sulfur Cleanup (Y/N) Y Date Extracted: 01/02/03
Date Analyzed (1): 01/03/03 Date Analyzed (2): 01/03/03
Time Analyzed (1): 1316 Time Analyzed (2): 1316
Instrument ID (1): E1 Instrument ID (2): E1
GC Column (1): RTXCLPPEST 2 ID: 0.53(mm) GC Column (2): RTXCLPPEST ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	B1ELCS	LCS-4935	01/03/03	01/03/03
02	B1ELCSD	LCSD-4935	01/03/03	01/03/03
03	AOC5ASSTB695	A1905-19A	01/03/03	01/03/03
04	AOC5ASSD7A56	A1905-20A	01/03/03	01/03/03
05	AOC5ASSD7B56	A1905-21A	01/03/03	01/03/03
06	AOC5ASSTB700	A1905-23C	01/03/03	01/03/03
07	AOC5ASSTB680	A1905-25C	01/03/03	01/03/03
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
BBLK1E

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: MB-4935
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E1D8397F
% Moisture: _____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 01/02/03
Concentrated Extract Volume: 10000(uL) Date Analyzed: 01/03/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM 4
PCB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.
BBLK1A

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Lab Sample ID: MB-5070 Lab File ID: E1D8495F
Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc) SEPF
Sulfur Cleanup (Y/N) Y Date Extracted: 01/13/03
Date Analyzed (1): 01/13/03 Date Analyzed (2): 01/13/03
Time Analyzed (1): 1727 Time Analyzed (2): 1727
Instrument ID (1): E1 Instrument ID (2): E1
GC Column (1): RTXCLPPEST 2 ID: 0.53(mm) GC Column (2): RTXCLPPEST ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	B1ALCS	LCS-5070	01/13/03	01/13/03
02	B1ALCSD	LCSD-5070	01/13/03	01/13/03
03	AOC5WTB62WRE	A1905-16ERE	01/13/03	01/13/03
04	AOC7WTB65GWR	A1905-18ERE	01/13/03	01/13/03
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
BBLK1A

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: MB-5070
Sample wt/vol: 1000 (g/ml) ML Lab File ID: R1D8495F
% Moisture: _____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 01/13/03
Concentrated Extract Volume: 2500(uL) Date Analyzed: 01/13/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.25	U
11104-28-2	Aroclor-1221	0.25	U
11141-16-5	Aroclor-1232	0.25	U
53469-21-9	Aroclor-1242	0.25	U
12672-29-6	Aroclor-1248	0.25	U
11097-69-1	Aroclor-1254	0.25	U
11096-82-5	Aroclor-1260	0.25	U

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Preparation Blank Matrix (soil/water): WATER
Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	12.0	U	12.0	U	15.0	B	13.4	B	34.482	B	P
Antimony	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Arsenic	3.4	B	3.0	U	3.0	U	3.0	U	3.000	U	P
Barium	3.0	U	3.0	U	3.0	U	3.0	U	7.501	B	P
Beryllium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Cadmium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Calcium	76.0	U	76.0	U	76.0	U	76.0	U	76.000	U	P
Chromium	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Cobalt	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Copper	9.0	B	3.0	B	2.1	B	2.0	U	11.563	B	P
Iron	35.0	U	35.0	U	35.0	U	35.0	U	35.000	U	P
Lead	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Magnesium	23.0	U	23.0	U	23.0	U	23.0	U	29.916	B	P
Manganese	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.100	U	CV
Nickel	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Potassium	268.4	B	89.0	U	89.0	U	89.0	U	106.712	B	P
Selenium	8.0	U	8.0	U	8.0	U	8.0	U	8.000	U	P
Silver	2.0	U	2.0	U	2.0	U	2.0	U	3.406	B	P
Sodium	118.0	U	-327.0	B	-435.2	B	-396.9	B	118.000	U	P
Thallium	4.0	U	4.0	U	4.0	U	4.0	U	4.000	U	P
Vanadium	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Zinc	8.0	U	8.0	U	8.0	U	8.0	U	8.000	U	P
Cyanide											

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Preparation Blank Matrix (soil/water): WATER
Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Boron	130.0	U	130.0	U	130.0	U			130.000	U	P
Tin	38.0	U	38.0	U	38.0	U			38.000	U	P

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Preparation Blank Matrix (soil/water): WATER
Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			19.4	B	16.1	B	19.9	B	12.000	U	P
Antimony			3.0	U	3.0	U	3.0	U	3.000	U	P
Arsenic			3.0	U	3.0	U	3.0	U	3.000	U	P
Barium			3.0	U	3.0	U	3.0	U	30.852	B	P
Beryllium			2.0	U	2.0	U	2.0	U	2.000	U	P
Cadmium			2.0	U	2.0	U	2.0	U	2.000	U	P
Calcium			76.0	U	76.0	U	76.0	U	76.000	U	P
Chromium			3.0	U	3.0	U	3.0	U	3.000	U	P
Cobalt			3.0	U	3.0	U	3.0	U	3.000	U	P
Copper			2.0	U	2.0	U	2.1	B	5.728	B	P
Iron			35.0	U	35.0	U	35.0	U	43.434	B	P
Lead			1.0	B	1.0	U	1.0	U	1.000	U	P
Magnesium			23.0	U	23.0	U	23.0	U	23.000	U	P
Manganese			2.0	U	2.0	U	2.0	U	2.000	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	1.000	U	CV
Nickel			1.0	U	1.0	U	1.0	U	1.000	U	P
Potassium									89.000	U	P
Selenium			8.0	U	8.0	U	8.0	U	8.000	U	P
Silver			-2.3	B	-2.4	B	-2.6	B	8.371	B	P
Sodium									-258.555	B	P
Thallium			4.0	U	4.0	U	4.0	U	4.000	U	P
Vanadium			3.0	U	3.0	U	3.0	U	3.000	U	P
Zinc			8.0	U	8.0	U	8.0	U	19.990	B	P
Cyanide											

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic									3.000	U	P
Barium									4.308	B	P
Beryllium											
Cadmium									2.000	U	P
Calcium											
Chromium									3.000	U	P
Cobalt									3.000	U	P
Copper									2.000	U	P
Iron	35.0	U	35.0	U	35.0	U	35.0	U			P
Lead									1.000	U	P
Magnesium											
Manganese	2.0	U	2.0	U	2.0	U	2.0	U			P
Mercury			0.1	U					0.100	U	CV
Nickel									1.000	U	P
Potassium											
Selenium									8.000	U	P
Silver									5.435	B	P
Sodium											
Thallium											
Vanadium									3.000	U	P
Zinc									8.000	U	P
Cyanide											

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum									0.600	U	P
Antimony									0.158	B	P
Arsenic									0.150	U	P
Barium									0.371	B	P
Beryllium									0.100	U	P
Cadmium									0.100	U	P
Calcium									3.800	U	P
Chromium									0.150	U	P
Cobalt									0.150	U	P
Copper									0.100	U	P
Iron			35.0	U	35.0	U			2.959	B	P
Lead									0.050	U	P
Magnesium									1.150	U	P
Manganese			2.0	U	2.0	U			0.248	B	P
Mercury									0.017	U	CV
Nickel									0.082	B	P
Potassium									4.450	U	P
Selenium									0.400	U	P
Silver									0.404	B	P
Sodium									-14.794	B	P
Thallium									0.200	U	P
Vanadium									0.150	U	P
Zinc									0.400	U	P
Cyanide											

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum									0.834	B	P
Antimony									0.150	U	P
Arsenic									0.150	U	P
Barium									0.583	B	P
Beryllium									0.100	U	P
Cadmium									0.100	U	P
Calcium									3.800	U	P
Chromium									0.150	U	P
Cobalt									0.150	U	P
Copper									0.123	B	P
Iron									1.750	U	P
Lead									0.050	U	P
Magnesium									1.150	U	P
Manganese									0.207	B	P
Mercury									0.017	U	CV
Nickel									0.050	U	P
Potassium									5.185	B	P
Selenium									0.400	U	P
Silver									0.100	U	P
Sodium									13.867	B	P
Thallium									0.200	U	P
Vanadium									0.150	U	P
Zinc									0.400	U	P
Cyanide											

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): V6C4181 Date Analyzed: 12/29/02

Instrument ID: V6 Time Analyzed: 1513

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1 AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	1060207	7.02	889517	10.76	479503	13.59
	UPPER LIMIT	2120414	7.52	1779034	11.26	959006	14.09
	LOWER LIMIT	530104	6.52	444759	10.26	239752	13.09
	EPA SAMPLE NO.						
01	VBLK6R	1108880	7.02	857579	10.77	443590	13.58
02	V6RLCS	1205478	7.02	965635	10.76	487008	13.59
03	AOC3T2	943981	7.03	680897	10.77	313890	13.59
04	AOC5E7	915988	7.03	662485	10.77	303148	13.59
05	AOC5WTB62W	885032	7.03	637827	10.77	291738	13.59
06	AOC7WTB65GW	842970	7.03	611459	10.77	275458	13.59
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): V1F1871 Date Analyzed: 12/30/02

Instrument ID: V1 Time Analyzed: 1020

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

		IS1 AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	939689	5.96	640526	9.64	373393	12.60
	UPPER LIMIT	1879378	6.46	1281052	10.14	746786	13.10
	LOWER LIMIT	469845	5.46	320263	9.14	186697	12.10
	EPA SAMPLE NO.						
01	VBLK1K	1011395	5.97	690082	9.64	345412	12.60
02	V1KLCS	812360	5.96	573340	9.64	342965	12.60
03	V1KLCSD	803545	5.96	562356	9.64	336243	12.60
04	AOC3CTCP6	291219*	5.97	177218*	9.64	69953*	12.60
05	AOC3SSTB4902	821388	5.97	565056	9.64	265554	12.60
06	AOC3SSTB5312	738002	5.97	477921	9.64	200230	12.60
07	AOC3SSTB5402	759711	5.97	530813	9.64	251909	12.61
08	AOC3CTCP7	340462*	5.97	195285*	9.64	69537*	12.60
09	AOC3CTCP8	518900	5.97	307716*	9.64	124871*	12.59
10	AOC7SSTB6578	665269	5.97	344339	9.64	98000*	12.60
11	AOC6SSTB7167	578076	5.97	318672*	9.64	97021*	12.60
12	AOC5ASSTB700	717656	5.97	493241	9.64	204631	12.60
13	AOC5ASSTB697	806427	5.97	426614	9.64	99057*	12.60
14	AOC5ASSTB680	137100*	5.97	74909*	9.65	18770*	12.62
15	AOC3CTCP6RE	336826*	5.97	179979*	9.65	60465*	12.61
16	AOC2TB5512	640721	5.97	415298	9.64	168185*	12.61
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): V1F1901 Date Analyzed: 12/31/02

Instrument ID: V1 Time Analyzed: 0941

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

		IS1 AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	831928	5.98	586937	9.65	360372	12.61
	UPPER LIMIT	1663856	6.48	1173874	10.15	720744	13.11
	LOWER LIMIT	415964	5.48	293469	9.15	180186	12.11
	EPA SAMPLE NO.						
01	VBLK1L	956351	5.98	650148	9.66	325157	12.62
02	V1LLCS	754451	5.98	535477	9.66	326029	12.62
03	AOC3CTCP7RE	331527*	5.98	189694*	9.66	67523*	12.62
04	AOC5ASSTB680	352318*	5.98	225810*	9.66	91689*	12.62
05	AOC5SSTB6267	876418	5.99	528132	9.67	194704	12.62
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): V6C4241 Date Analyzed: 12/31/02

Instrument ID: V6 Time Analyzed: 1012

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1 AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	1143343	7.03	909576	10.77	445275	13.59
	UPPER LIMIT	2286686	7.53	1819152	11.27	890550	14.09
	LOWER LIMIT	571672	6.53	454788	10.27	222638	13.09
	EPA SAMPLE NO.						
01	VBLK6U	986212	7.03	725511	10.77	351463	13.59
02	V6ULCS	985624	7.03	790100	10.77	394770	13.59
03	AOC3CTCP8DL	897894	7.02	676037	10.77	333112	13.58
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): S2D0813 Date Analyzed: 12/26/02

Instrument ID: S2 Time Analyzed: 1526

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	189309	8.81	662994	11.28	338300	14.84
	UPPER LIMIT	378618	9.31	1325988	11.78	676600	15.34
	LOWER LIMIT	94655	8.31	331497	10.78	169150	14.34
	EPA SAMPLE NO.						
01	SBLK2E	155564	8.80	524064	11.25	270612	14.82
02	S2ELCS	161579	8.80	560058	11.26	289919	14.83
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): S2D0813 Date Analyzed: 12/26/02

Instrument ID: S2 Time Analyzed: 1526

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	535076	17.88	412710	23.31	234666	26.45
	UPPER LIMIT	1070152	18.38	825420	23.81	469332	26.95
	LOWER LIMIT	267538	17.38	206355	22.81	117333	25.95
	EPA SAMPLE NO.						
01	SBLK2E	420824	17.87	343351	23.30	219842	26.44
02	S2ELCS	460654	17.87	368089	23.30	243722	26.44
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): S2D0837 Date Analyzed: 12/27/02

Instrument ID: S2 Time Analyzed: 1032

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	147452	8.77	540373	11.23	279671	14.78
	UPPER LIMIT	294904	9.27	1080746	11.73	559342	15.28
	LOWER LIMIT	73726	8.27	270187	10.73	139836	14.28
	EPA SAMPLE NO.						
01	SBLK2F	114253	8.77	407888	11.23	226599	14.78
02	S2FLCS	126854	8.77	463622	11.23	244573	14.79
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

ARRA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): S2D0837 Date Analyzed: 12/27/02

Instrument ID: S2 Time Analyzed: 1032

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	483443	17.84	435088	23.27	263555	26.39
	UPPER LIMIT	966886	18.34	870176	23.77	527110	26.89
	LOWER LIMIT	241722	17.34	217544	22.77	131778	25.89
	EPA SAMPLE NO.						
01	SBLK2F	380314	17.84	390481	23.26	269829	26.39
02	S2FLCS	431961	17.84	408311	23.27	299946	26.40
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): S2D0943 Date Analyzed: 01/03/03

Instrument ID: S2 Time Analyzed: 1926

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	53827	8.41	203776	10.84	113871	14.39
	UPPER LIMIT	107654	8.91	407552	11.34	227742	14.89
	LOWER LIMIT	26914	7.91	101888	10.34	56936	13.89
	EPA SAMPLE NO.						
01	AOC3CTCP6	123363*	8.42	409856*	10.85	216508	14.40
02	AOC3CTCP7	133534*	8.42	455681*	10.85	237597*	14.40
03	AOC3CTCP8	116685*	8.42	403206	10.85	205997	14.40
04	AOC3SSTB5312	95031	8.42	345516	10.86	190280	14.40
05	AOC3SSTB5402	126185*	8.42	453448*	10.86	250900*	14.40
06	AOC3SSD5A45	111682*	8.42	404992	10.85	225705	14.40
07	AOC3SSD5B45	122643*	8.43	444866*	10.86	243522*	14.40
08	AOC3SSTB4945	130828*	8.42	475715*	10.86	260664*	14.40
09	AOC2TB24	132352*	8.42	483432*	10.86	272244*	14.40
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

ARRA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): S2D0943 Date Analyzed: 01/03/03

Instrument ID: S2 Time Analyzed: 1926

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	199963	17.42	189880	22.83	91281	25.76
	UPPER LIMIT	399926	17.92	379760	23.33	182562	26.26
	LOWER LIMIT	99982	16.92	94940	22.33	45641	25.26
	EPA SAMPLE NO.						
01	AOC3CTCP6	326611	17.43	199049	22.85	85367	25.80
02	*AOC3CTCP7*	*343646*	*17.43*	*155110*	*22.85*	*54866*	*25.81*
03	AOC3CTCP8	288960	17.43	118655	22.85	45863	25.82
04	AOC3SSTB5312	326869	17.43	316114	22.84	212684*	25.79
05	AOC3SSTB5402	428240*	17.43	403908*	22.84	258621*	25.79
06	AOC3SSD5A45	392430	17.43	395212*	22.84	261865*	25.79
07	AOC3SSD5B45	428395*	17.43	427392*	22.84	281711*	25.80
08	AOC3SSTB4945	440943*	17.44	424317*	22.84	248566*	25.79
09	AOC2TB24	480787*	17.43	464859*	22.84	297933*	25.80
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): S2D0973 Date Analyzed: 01/06/03

Instrument ID: S2 Time Analyzed: 1158

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	98043	8.32	329135	10.76	178249	14.29
	UPPER LIMIT	196086	8.82	658270	11.26	356498	14.79
	LOWER LIMIT	49022	7.82	164568	10.26	89125	13.79
	EPA SAMPLE NO.						
01	AOC3BB3	99477	8.32	343489	10.75	184432	14.29
02	*AOC3BB4*	*95879*	*8.32*	*334566*	*10.75*	*177345*	*14.29*
03	AOC5E7	95602	8.32	325063	10.76	175779	14.29
04	AOC5WTB62W	90589	8.31	311091	10.75	165343	14.29
05	AOC7WTB65GW	97667	8.32	335427	10.76	175314	14.29
06	AOC2E6	93899	8.32	322220	10.75	172878	14.29
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): S2D0973 Date Analyzed: 01/06/03

Instrument ID: S2 Time Analyzed: 1158

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	304486	17.33	295025	22.73	203879	25.63
	UPPER LIMIT	608972	17.83	590050	23.23	407758	26.13
	LOWER LIMIT	152243	16.83	147513	22.23	101940	25.13
	EPA SAMPLE NO.						
01	AOC3BB3	313161	17.32	307152	22.72	213421	25.62
02	AOC3BB4	307134	17.33	307279	22.72	215311	25.63
03	AOC5E7	301882	17.32	297977	22.72	209196	25.62
04	AOC5WTB62W	286471	17.32	279391	22.72	200049	25.63
05	AOC7WTB65GW	286568	17.32	291058	22.72	209353	25.62
06	AOC2E6	295234	17.32	291732	22.72	202266	25.62
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): S2D1205 Date Analyzed: 01/18/03

Instrument ID: S2 Time Analyzed: 1449

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	45860	7.93	157379	10.35	86089	13.87
	UPPER LIMIT	91720	8.43	314758	10.85	172178	14.37
	LOWER LIMIT	22930	7.43	78690	9.85	43045	13.37
	EPA SAMPLE NO.						
01	SBLK2U	69680	7.93	251413	10.35	136948	13.87
02	S2ULCS	58543	7.93	217041	10.35	119920	13.87
03	S2ULCSD	52352	7.93	192163	10.35	105703	13.87
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): S2D1205 Date Analyzed: 01/18/03

Instrument ID: S2 Time Analyzed: 1449

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	152997	16.89	155125	22.28	107356	25.04
	UPPER LIMIT	305994	17.39	310250	22.78	214712	25.54
	LOWER LIMIT	76499	16.39	77563	21.78	53678	24.54
	EPA SAMPLE NO.						
01	SBLK2U	243256	16.88	255638	22.27	170097	25.04
02	S2ULCS	217457	16.89	213369	22.28	131580	25.04
03	S2ULCSD	191608	16.88	187511	22.27	117307	25.03
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): S2D1264 Date Analyzed: 01/21/03

Instrument ID: S2 Time Analyzed: 1124

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	41079	7.75	142248	10.16	76312	13.67
	UPPER LIMIT	82158	8.25	284496	10.66	152624	14.17
	LOWER LIMIT	20540	7.25	71124	9.66	38156	13.17
	EPA SAMPLE NO.						
01	SBLK2A	32971	7.74	117023	10.15	62792	13.66
02	S2ALCS	33560	7.75	117197	10.15	64386	13.67
03	AOC3CTCP6RE	37256	7.75	122479	10.16	64722	13.67
04	AOC3CTCP7RE	31851	7.75	110643	10.16	57744	13.66
05	AOC3CTCP8RE	37901	7.75	132340	10.16	68720	13.67
06	AOC3SSTB5312	32574	7.74	113362	10.15	60626	13.66
07	AOC3SSTB5402	38782	7.75	135374	10.16	72251	13.67
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): S2D1264 Date Analyzed: 01/21/03

Instrument ID: S2 Time Analyzed: 1124

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	132509	16.68	127242	22.05	79362	24.76
	UPPER LIMIT	265018	17.18	254484	22.55	158724	25.26
	LOWER LIMIT	66255	16.18	63621	21.55	39681	24.26
	EPA SAMPLE NO.						
01	SBLK2A	109412	16.67	106194	22.03	70230	24.75
02	S2ALCS	111820	16.67	105668	22.05	69955	24.76
03	AOC3CTCP6RE	99413	16.69	72805	22.08	34671*	24.82
04	AOC3CTCP7RE	92597	16.68	70489	22.07	34065*	24.83
05	AOC3CTCP8RE	106151	16.69	66035	22.09	29965*	24.85
06	AOC3SSTB5312	102587	16.67	96273	22.03	64095	24.76
07	AOC3SSTB5402	122433	16.68	106755	22.04	70618	24.76
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

Analytical Data Package for HRP Associates, Inc.

Client Project: Former Howe Furniture Site

Mitkem Project ID: A1905

January 30, 2003

SDG Narrative

Mitkem Corporation submits the enclosed data package in response to HRP Associates' Former Howe Furniture Site project. Under this deliverable, analysis results are presented for 8 aqueous, 3 cement and nineteen soil samples that were received at Mitkem on December 23, 2002. Analyses were performed per specifications in the project's contract and the chain of custody forms following discussion with the client. Sample identifications were shortened where necessary due to limitations in the software used to generate CLP-type report forms. A table of sample identifications showing full client ID, shortened client ID and laboratory ID follows this narrative.

The analyses were performed according to EPA SW-846 and State of Connecticut protocols and reported in a CLP-format deliverable. Results for extractable total petroleum hydrocarbons, conductivity, pH and chloride are reported in standard Mitkem format with supporting raw data. Per method requirements, QC limits are updated on a regular basis. Therefore, QC limits may have changed from those provided when the project QAPP was written. The current valid QC limits are listed on the applicable data reporting forms.

Samples AOC3BB3 and AOC3BB4 were empty soil sample jars provided as bottle blanks. These were rinsed repeatedly with water to provide sufficient volume for aqueous sample analyses. The rinsings were performed when required for sample preparation.

The following observation and/or deviations are observed for the following analyses:

1. Overall Observation:

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting.
- M2 peak co-elution.
- M3 rising or falling baseline.
- M4 retention time shift.
- M5 miscellaneous - under this category, the justification is explained.

The enclosed report includes the originals of all data with the exception of logbook pages and certain initial calibrations. Photocopies of logbook pages are included, with the originals maintained on file at the laboratory. The originals of initial calibrations that are

shared among several cases are maintained on file at the laboratory, with photocopies included in the data package.

2. Volatile Analysis:

Surrogate recovery: recoveries were within the QC limits with the exception of low recovery of dibromofluoromethane in sample AOC3CTCP7 and AOC3CTCP8. The samples were re-analyzed or re-analyzed at dilution with all surrogate recoveries within the QC limits.

Lab control sample/lab control sample duplicate: spike recoveries were within the QC limits with the exception of high recovery of acrylonitrile in V6ULCS. Replicate RPDs were within the QC limits with the exception of methyl tert-butyl ether in V1KLCS/V1K1CSD

Sample analysis: the cement samples, AOC3CTCP6, AOC3CTCP7 and AOC3CTCP8 were assumed to be 100% solid. Internal standard area counts were within the QC criteria with the exception of samples AOC3CTCP6, AOC3CTCP7 and AOC3CTCP8. The samples were re-analyzed or re-analyzed at dilution with similar findings. For sample AOC3CTCP7, acetone was within the instrument calibration range in the initial analysis, but when the sample was re-analyzed, acetone exceeded the instrument calibration range. Due to high concentration of target analytes, sample AOC3CTCP8 was re-analyzed at dilution with medium level analysis. With the methanol preserved aliquout, there was not enough methanol in the vial. The analyst added 5mL of methanol prior to medium level analysis of sample AOC3CTCP8. No other unusual observation was made for the analyses.

3. Semivolatile Analysis:

Surrogate recovery: recoveries were within the QC limits with the exception of several surrogates in the following samples: AOC3CTCP6, AOC3CTCP7, AOC3CTCP8, AOC3SSTB5312, AOC3SSTB5402, AOC3SSTB4945, AOC3SSD5A45, AOC3SSD5B45 and AOC2TB24. The following samples were re-extracted and analyzed with similar findings: AOC3CTCP6, AOC3CTCP7 and AOC3CTCP8. The following samples were re-extracted and analyzed with all surrogate recoveries within the QC limits: AOC3SSTB5312 and AOC3SSTB5402.

Lab control sample/lab control sample duplicate: spike recoveries were within the QC limits with the exception of several compounds in both the lab control sample and lab control sample duplicate for S2ULCS and high recovery of carbazole in sample S2FLCS. Replicate RPDs were within the QC limits.

Sample analysis: alkanes were determined as tentatively identified compounds. These are reported on the Alkane Narrative Report, which follows this narrative. Please note that bottle blanks AOC3BB3 and AOC3BB4 were prepared (rinsed with water) the day they were extracted; holding times for these two samples are not calculated from date of sample collection or receipt. The cement samples, AOC3CTCP6, AOC3CTCP7 and AOC3CTCP8 were assumed to be 100% solid. Samples AOC3CTCP6, AOC3CTCP7, AOC3CTCP8, AOC3SSTB5312 and AOC3SSTB5402 were re-extracted outside of holding time. The initial analysis was extracted within holding time with non-compliant surrogate recoveries. Due to limited sample volume, samples AOC5WTB62W and AOC7WTB65GW were extracted at reduced volume. The spike amounts and extract final volume were adjusted accordingly to achieve comparable CRQL. Internal standard area counts were within QC criteria with the exception of the following samples: AOC3CTCP6, AOC3CTCP7, AOC3CTCP8, AOC3SSTB5312, AOC3SSTB5402, AOC3SSTB4945, AOC3SSD5A45, AOC3SSD5B45 and AOC2TB24. Samples AOC3CTCP6, AOC3CTCP7 and AOC3CTCP8 were re-extracted and analyzed with similar findings. Samples AOC3SSTB5312 and AOC3SSTB5402 were re-extracted and analyzed with all internal standard within QC criteria. No unusual observation was made for the analyses.

4. Pesticides Analysis:

Surrogate recovery: recoveries were within the QC limits.

Lab control sample/lab control sample duplicate: spike recoveries were within the QC limits. Spike recoveries were within the QC limits with the exception of high recovery of endrin ketone in the lab control sample and high recovery of endosulfan I in both the lab control sample and lab control sample duplicate. Replicate RPDs were within the QC limits with the exception of endrin.

Sample analysis: the cement samples, AOC3CTCP6, AOC3CTCP7 and AOC3CTCP8 were assumed to be 100% solid. No unusual observation was made for the analyses.

5. PCB Analysis (Total and SPLP):

Surrogate recovery: recoveries were within the QC limits with the exception of samples AOC5WTB62W and AOC7WTB65GW, in which the ETPH extracts were exchanged into hexane and analyzed for PCB, therefore containing no PCB surrogates.

Lab control sample/lab control sample duplicate: spike recoveries and replicate RPDs were within the QC limits.

Sample analysis: please note that bottle blanks AOC3BB3 and AOC3BB4 were prepared (rinsed with water) the day they were extracted; holding times for these two samples are

not calculated from date of sample collection or receipt. The cement samples, AOC3CTCP6, AOC3CTCP7 and AOC3CTCP8 were assumed to be 100% solid. Due to insufficient sample volume, samples AOC5WTB62W and AOC7WTB65GW were not extracted for PCB. The ETPH extracts were exchanged into hexane and analyzed for PCB. No unusual observation was made for the analyses.

6. Connecticut Extractable Total Petroleum Hydrocarbons (ETPH):

Surrogate recovery: recoveries were within QC limits of 16% to 127% for soil samples and 20% to 115% for water samples. Please note that relatively low surrogate recoveries are typical for aqueous sample analysis using this method.

Lab control sample/lab control sample duplicate: spike recoveries were within the QC limits of 30% to 109% for soil samples and 27% to 134% for water samples.

Sample analysis: the aqueous samples were inadvertently spiked with internal standard spiking solution for semivolatiles. The average total area from 3 analyses of semivolatile internal standard spiking solution is subtracted from the total area of the samples and associated QC samples. The semivolatile internal standard area runs follows the calibration verifications in the data package. C26 of the LCS co-elutes with the semivolatile internal standard. The concentration of this compound in the method blank run on the corresponding column id subtracted. The normal project quantitation limit is 0.1mg/L for aqueous samples. For the samples mix-spiked with semivolatile internal standard mix, the 0.1mg/L is unreliable. The samples and associated QC were reported to 0.35mg/L. No other unusual observation was made for the analyses.

7. Metals Analysis:

Results for all metals analyses are reported in one section of this report. Data sheets for SPLP metals are identified as such in the Comments line at the bottom of the Form 1.

Lab control sample: spike recoveries were within the QC limits.

Matrix spike: matrix spike was performed on sample AOC2TB24. Spike recoveries were within the QC limits with the exception of antimony and selenium. Form 1's are flagged with an "N" flag for these two elements. Post digest spikes were performed for antimony and selenium. Spike recovery was within QC limits for antimony and low for selenium.

Matrix duplicate: matrix duplicate was performed on sample AOC2TB24. Replicate RPDs were within the QC limits with the exception of barium.

Sample analysis: no other unusual observation was made for the analysis.

8. Wet chemistry Analyses:

The analysis results for conductivity, chloride and pH are included following the blue section divider after the metals section of the data report.

No unusual observation was made for the analyses.

9. Subcontracted Analyses:

The fluoride analysis was performed by sub-contract laboratory RI Analytical Laboratories of Warwick, RI. The RIAL report is submitted following the wet chemistry analyses.

The Total Organic Carbon analysis was performed by sub-contract laboratory Severn Trent Laboratories of Shelton, CT. The entire STL Connecticut data package report is enclosed following the Mitkem data package. Please note that the STL report is paginated separately from the Mitkem report.

The formaldehyde analysis was performed by sub-contract laboratory STL Tallahassee of Tallahassee, FL. The entire STL Tallahassee data package report is enclosed following the Mitkem data package. Please note that the STL report is paginated separately from the Mitkem report.

The pages in this report have been numbered consecutively, starting from this narrative and ending with a page saying only "Last Page of Data Report".

I certify that this data package is in compliance, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Agnes Ng
CLP Project Manager
01/30/03

ALKANE NARRATIVE REPORT
Report date : 01/29/2003
SDG: A1905

Client Sample ID: SBLK28 Lab Sample ID: MB-4910 File ID: S2D0818

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	9.89	4	J

Client Sample ID: AOC3CTCP6 Lab Sample ID: A1905-01D File ID: S2D0950

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	8.10	670	J
Straight-Chain Alkane	9.52	1100	J
Straight-Chain Alkane	16.32	810	J
Straight-Chain Alkane	17.25	820	J
Straight-Chain Alkane	18.12	1000	J
Straight-Chain Alkane	18.96	1200	J
Straight-Chain Alkane	19.77	1000	J
Straight-Chain Alkane	20.54	1400	J
Straight-Chain Alkane	21.27	1000	J
Branched Alkane	21.52	870	J
Straight-Chain Alkane	21.98	1200	J
Branched Alkane	22.21	840	J
Straight-Chain Alkane	22.66	1800	J
Branched Alkane	23.52	1400	J
Branched Alkane	24.15	2400	J
Branched Alkane	24.77	1400	J

Client Sample ID: AOC3CTCP7 Lab Sample ID: A1905-02D File ID: S2D0951

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	8.09	960	J
Branched Alkane	9.12	510	J
Straight-Chain Alkane	9.52	1500	J
Branched Alkane	9.74	330	J
Branched Alkane	10.11	450	J
Branched Alkane	16.35	590	J
Straight-Chain Alkane	17.25	600	J
Branched Alkane	17.30	820	J
Straight-Chain Alkane	18.12	590	J
Straight-Chain Alkane	18.96	790	J
Straight-Chain Alkane	19.77	620	J
Straight-Chain Alkane	20.54	1300	J
Straight-Chain Alkane	24.15	2800	J

Client Sample ID: AOC3CTCP8 Lab Sample ID: A1905-03D File ID: S2D0952

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	16.32	1500	J
Straight-Chain Alkane	17.25	1200	J
Straight-Chain Alkane	17.30	800	J
Straight-Chain Alkane	18.12	1600	J
Straight-Chain Alkane	18.97	2100	J
Straight-Chain Alkane	19.78	1800	J
Straight-Chain Alkane	20.54	1900	J
Straight-Chain Alkane	21.28	1200	J
Branched Alkane	21.81	950	J

Straight-Chain Alkane	21.99	1200	J
Branched Alkane	24.16	3200	J

Client Sample ID: AOC3CTCP6RE Lab Sample ID: A1905-01DRE File ID: S2D1

Compound	RT	Est. Conc.	Q
Straight-chain Alkane	7.47	670	J
Straight-chain Alkane	8.89	1600	J
Straight-chain Alkane	10.20	1000	J
Straight-chain Alkane	15.65	2200	J
Straight-chain Alkane	16.57	1900	J
Straight-chain Alkane	17.45	2300	J
Straight-chain Alkane	18.29	2000	J
Branched Alkane	18.87	790	J
Straight-chain Alkane	19.09	2100	J
Straight-chain Alkane	19.86	2200	J
Straight-chain Alkane	20.59	1500	J
Straight-chain Alkane	20.84	1200	J
Branched Alkane	23.45	4400	J

Client Sample ID: AOC3CTCP7RE Lab Sample ID: A1905-02DRE File ID: S2D1

Compound	RT	Est. Conc.	Q
Straight-chain Alkane	7.46	510	J
Straight-chain Alkane	8.88	1300	J
Straight-chain Alkane	10.19	580	J
Straight-chain Alkane	14.67	340	J
Straight-chain Alkane	15.64	1600	J
Straight-chain Alkane	16.56	830	J
Branched Alkane	16.62	1700	J
Straight-chain Alkane	17.44	530	J
Straight-chain Alkane	18.27	640	J
Branched Alkane	18.86	560	J
Straight-chain Alkane	19.07	740	J
Straight-chain Alkane	19.85	770	J

Client Sample ID: AOC3CTCP8RE Lab Sample ID: A1905-03DRE File ID: S2D1

Compound	RT	Est. Conc.	Q
Straight-chain Alkane	14.67	430	J
Straight-chain Alkane	15.64	2000	J
Straight-chain Alkane	16.57	1800	J
Branched Alkane	16.62	1400	J
Straight-chain Alkane	17.44	2000	J
Straight-chain Alkane	18.29	2100	J
Branched Alkane	18.86	1000	J
Straight-chain Alkane	19.09	2400	J
Straight-chain Alkane	19.85	2300	J
Straight-chain Alkane	20.33	890	J
Straight-chain Alkane	20.60	2100	J
Straight-chain Alkane	23.48	5900	J

Mitkem Corporation *31/Dec/02 12:27* **WorkOrder: A1905**

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RAFT
Location: HOW0016.RA
Comments: Data summary and CD-ROM of full package to HRP. Full paper package and EDD to Glenn Esler @ Env. Sols.

Cases:
SDG:
PO: HOW0016.RA

ReportLevel: LEVEL 4
EDD: XL
HC Due: 01/13/03
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Lab	MS	SEL	Storage
A1905-01A	AOC3CTCP6	12/17/02 11:35	12/23/02	Cement	SW8260B_LOW_S			☐	☐	VOA
A1905-01B	AOC3CTCP6	12/17/02 11:35	12/23/02	Cement	SW8260B_MED_S			☑	☐	VOA
A1905-01C	AOC3CTCP6	12/17/02 11:35	12/23/02	Cement	SW8315A_S			☐	☐	SUB
A1905-01D	AOC3CTCP6	12/17/02 11:35	12/23/02	Cement	SW9010B_S			☐	☑	B2
					SW9010B_W	SPLP		☑	☑	B2
					SW7470A	SPLP		☐	☐	B2
					SW7471A			☐	☐	B2
					SW8081A_S			☐	☐	B2
					SW8270C_S			☐	☐	B2
A1905-02A	AOC3CTCP7	12/17/02 11:30	12/23/02	Cement	SW8260B_LOW_S			☐	☐	VOA
A1905-02B	AOC3CTCP7	12/17/02 11:30	12/23/02	Cement	SW8260B_MED_S			✓	☐	VOA
A1905-02C	AOC3CTCP7	12/17/02 11:30	12/23/02	Cement	SW8315A_S			☐	☐	SUB

Page 1 of 12

Client Rep: Agnes R Ng

Client ID: HRP **Case:** **Report Level:** LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T **SDG:** **EDD:** XL
Location: HOW0016.RA **PO:** HOW0016.RA **HC Due:** 01/13/03
Comments: Data summary and CD-ROM of full package to HRP. Full paper package and EDD to Glenn Esler @ Env. Stds. **Fax Due:**

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	fold	MS	SEL	Storage
A1905-06A	AOC3SSTB5402	12/16/02 15:05	12/23/02	Soil	SW8260B_LOW_S					VOA
A1905-06B	AOC3SSTB5402	12/16/02 15:05	12/23/02	Soil	SW8260B_MED_S		✔			VOA
A1905-06C	AOC3SSTB5402	12/16/02 15:05	12/23/02	Soil	SW6010B_S	TAL			☑	B2
					SW7471A	TAL				B2
					SW8081A_S					B2
					SW8082_S					B2
					SW8270C_S					B2
A1905-06D	AOC3SSTB5402	12/16/02 15:05	12/23/02	Soil	E415_LK_TOC_S					SUB
					SW8315A_S					SUB
A1905-07A	AOC3BB3	12/16/02 12:00	12/23/02	Water Qualit	SW6010B_W	TAL			☑	B1
					SW7470A	TAL				B1
					SW8082_W					B1
					SW8270C_W					B1
A1905-08A	AOC3BB4	12/16/02 12:05	12/23/02	Water Qualit	SW6010B_W	TAL			☑	B1

Client Rep: Agnes R Ng

11

Client ID: HRP **Case:** **Report Level:** LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T **SDG:** **EDD:** XL
Location: HOW0016.RA **PO:** HOW0016.RA **HC Due:** 01/13/03
Comments: Data summary and CD-ROM of full package to HRP. Full paper package and EDD to Glenn Esler @ Env. Stds. **Fax Due:**

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	fold	MS	SEL	Storage
A1905-02D	AOC3CTCP7	12/17/02 11:30	12/23/02	Cement	SW6010B_S				☑	B2
					SW6010B_W	SPLP			☑	B2
					SW7470A	SPLP				B2
					SW7471A					B2
					SW8081A_S					B2
					SW8270C_S					B2
A1905-03A	AOC3CTCP8	12/17/02 12:05	12/23/02	Cement	SW8260B_LOW_S					VOA
A1905-03B	AOC3CTCP8	12/17/02 12:05	12/23/02	Cement	SW8260B_MED_S		✔			VOA
A1905-03C	AOC3CTCP8	12/17/02 12:05	12/23/02	Cement	SW8315A_S					SUB
A1905-03D	AOC3CTCP8	12/17/02 12:05	12/23/02	Cement	SW6010B_S				☑	B2
					SW6010B_W	SPLP			☑	B2
					SW7470A	SPLP				B2
					SW7471A					B2
					SW8081A_S					B2
					SW8270C_S					B2

Client Rep: Agnes R Ng

9

Client ID: HRP **Case:** **Report Level:** LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T **SDG:** **EDD:** XL
Location: HOW0016.RA **PO:** HOW0016.RA **HC Due:** 01/13/03
Comments: Data summary and CD-ROM of full package to HRP. Full paper package and EDD to Glenn Esler @ Env. Stds. **Fax Due:**

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	fold	MS	SEL	Storage
A1905-08A	AOC3BB4	12/16/02 12:05	12/23/02	Water Qualit	SW7470A	TAL				B1
					SW8082_W					B1
					SW8270C_W					B1
A1905-09A	AOC3T2	12/16/02 12:10	12/23/02	Water Qualit	SW8260B_W					VOA
A1905-10A	AOC3E5	12/16/02 12:15	12/23/02	Water Qualit	SW6010B_W	TAL			☑	M2
					SW7470A	TAL				M2
A1905-11A	AOC3SSD5A45	12/16/02 13:15	12/23/02	Soil	PMoist					B2
					SW8270C_S					B2
A1905-11B	AOC3SSD5A45	12/16/02 13:15	12/23/02	Soil	SW8315A_S					SUB
A1905-12A	AOC3SSD5B45	12/16/02 13:20	12/23/02	Soil	PMoist					B2
					SW8270C_S					B2
A1905-12B	AOC3SSD5B45	12/16/02 13:20	12/23/02	Soil	SW8315A_S					SUB

Client Rep: Agnes R Ng

12

Client ID: HRP **Case:** **Report Level:** LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T **SDG:** **EDD:** XL
Location: HOW0016.RA **PO:** HOW0016.RA **HC Due:** 01/13/03
Comments: Data summary and CD-ROM of full package to HRP. Full paper package and EDD to Glenn Esler @ Env. Stds. **Fax Due:**

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	fold	MS	SEL	Storage
A1905-04A	AOC3SSTB4902	12/16/02 13:05	12/23/02	Soil	PMoist					VOA
					SW8260B_LOW_S					VOA
A1905-04B	AOC3SSTB4902	12/16/02 13:05	12/23/02	Soil	SW8260B_MED_S		✔			VOA
A1905-04C	AOC3SSTB4902	12/16/02 13:05	12/23/02	Soil	SW8081A_S					B2
A1905-05A	AOC3SSTB5312	12/16/02 14:35	12/23/02	Soil	PMoist					VOA
					SW8260B_LOW_S					VOA
A1905-05B	AOC3SSTB5312	12/16/02 14:35	12/23/02	Soil	SW8260B_MED_S		✔			VOA
A1905-05C	AOC3SSTB5312	12/16/02 14:35	12/23/02	Soil	SW8081A_S					B2
					SW8270C_S					B2
A1905-05D	AOC3SSTB5312	12/16/02 14:35	12/23/02	Soil	SW8315A_S					SUB
A1905-06A	AOC3SSTB5402	12/16/02 15:05	12/23/02	Soil	PMoist					VOA

Client Rep: Agnes R Ng

10

Client ID: HRP **Case:** **Report Level:** LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T **SDG:** **EDD:** XL
Location: HOW0016.RA **PO:** HOW0016.RA **HC Due:** 01/13/03
Comments: Data summary and CD-ROM of full package to HRP. Full paper package and EDD to Glenn Esler @ Env. Stds. **Fax Due:**

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1905-16F	AOC5WTB62W	12/19/02 10:00	12/23/02	Water	FLUORIDE_W					B1
					SM4500_CL_W					B1
					SM4500_H+					B1
A1905-17A	AOC7SSTB6578	12/19/02 11:15	12/23/02	Soil	PMoist					VOA
					SW8260B_LOW_S					VOA
A1905-17B	AOC7SSTB6578	12/19/02 11:15	12/23/02	Soil	SW8260B_MED_S		☑			VOA
A1905-18A	AOC7WTB65GW	12/19/02 11:20	12/23/02	Water	SW8260B_W					VOA
A1905-18B	AOC7WTB65GW	12/19/02 11:20	12/23/02	Water	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B			☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B				M2
A1905-18C	AOC7WTB65GW	12/19/02 11:20	12/23/02	Water	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B			☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B				M2
A1905-18D	AOC7WTB65GW	12/19/02 11:20	12/23/02	Water	CTETPH_W					B1

Client Rep: Agnes R Ng

Client ID: HRP **Case:** **Report Level:** LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T **SDG:** **EDD:** XL
Location: HOW0016.RA **PO:** HOW0016.RA **HC Due:** 01/13/03
Comments: Data summary and CD-ROM of full package to HRP. Full paper package and EDD to Glenn Esler @ Env. Stds. **Fax Due:**

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1905-13A	AOC3SSTB4945	12/16/02 13:10	12/23/02	Soil	PMoist					B2
					SW8270C_S					B2
A1905-13B	AOC3SSTB4945	12/16/02 13:10	12/23/02	Soil	SW8315A_S					SUB
A1905-14A	AOC5E7	12/19/02 12:50	12/23/02	Water Qualit	SW8260B_W					VOA
A1905-14B	AOC5E7	12/19/02 12:50	12/23/02	Water Qualit	SW6010B_W	TAL			☑	M2
					SW7470A	TAL				M2
A1905-14C	AOC5E7	12/19/02 12:50	12/23/02	Water Qualit	CTETPH_W					B1
A1905-14D	AOC5E7	12/19/02 12:50	12/23/02	Water Qualit	SW8082_W					B1
					SW8270C_W					B1
A1905-15A	AOC5SSTB6267	12/19/02 9:50	12/23/02	Soil	PMoist					VOA
					SW8260B_LOW_S					VOA
A1905-15B	AOC5SSTB6267	12/19/02 9:50	12/23/02	Soil	SW8260B_MED_S		☑			VOA

Client Rep: Agnes R Ng

Client ID: HRP **Case:** **Report Level:** LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T **SDG:** **EDD:** XL
Location: HOW0016.RA **PO:** HOW0016.RA **HC Due:** 01/13/03
Comments: Data summary and CD-ROM of full package to HRP. Full paper package and EDD to Glenn Esler @ Env. Stds. **Fax Due:**

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1905-18E	AOC7WTB65GW	12/19/02 11:20	12/23/02	Water	SW8082_W					B1
					SW8270C_W					B1
A1905-18F	AOC7WTB65GW	12/19/02 11:20	12/23/02	Water	COND_W					B1
					FLUORIDE_W					B1
					SM4500_CL_W					B1
					SM4500_H+					B1
A1905-19A	AOC5ASSTB6956	12/19/02 13:00	12/23/02	Soil	PMoist					B2
					SW8082_S					B2
					SW8082_W	SPLP				B2
A1905-20A	AOC5ASSD7A56	12/19/02 13:05	12/23/02	Soil	PMoist					B2
					SW8082_S					B2
					SW8082_W	SPLP				B2
A1905-21A	AOC5ASSD7B56	12/19/02 13:07	12/23/02	Soil	PMoist					B2
					SW8082_S					B2
					SW8082_W	SPLP				B2

Client Rep: Agnes R Ng

Client ID: HRP **Case:** **Report Level:** LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T **SDG:** **EDD:** XL
Location: HOW0016.RA **PO:** HOW0016.RA **HC Due:** 01/13/03
Comments: Data summary and CD-ROM of full package to HRP. Full paper package and EDD to Glenn Esler @ Env. Stds. **Fax Due:**

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1905-15C	AOC5SSTB6267	12/19/02 9:50	12/23/02	Soil	E415_LK_TOC_S					B2
					SW6010B_S	TAL			☑	B2
					SW7471A	TAL				B2
A1905-16A	AOC5WTB62W	12/19/02 10:00	12/23/02	Water	SW8260B_W					VOA
A1905-16B	AOC5WTB62W	12/19/02 10:00	12/23/02	Water	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B			☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B				M2
A1905-16C	AOC5WTB62W	12/19/02 10:00	12/23/02	Water	SW6010B_W	RCRA8 plus Cu,Ni,Zn,Mn,B			☑	M2
					SW7470A	RCRA8 plus Cu,Ni,Zn,Mn,B				M2
A1905-16D	AOC5WTB62W	12/19/02 10:00	12/23/02	Water	CTETPH_W					B1
A1905-16E	AOC5WTB62W	12/19/02 10:00	12/23/02	Water	SW8082_W					B1
					SW8270C_W					B1
A1905-16F	AOC5WTB62W	12/19/02 10:00	12/23/02	Water	COND_W					B1

Client Rep: Agnes R Ng

Mitkem Corporation *31/Dec/02 12:27* **WorkOrder: A1905**

Client ID: HRP **Case:** **Report Level:** LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T **SDG:** **EDD:** XL
Location: HOW0016.RA **PO:** HOW0016.RA **HC Due:** 01/13/03
Comments: Data summary and CD-ROM of full package to HRP. Full paper package and EDD to Glenn Esler @ Env. Stds. **Fax Due:**

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1905-26C	AOC2E6	12/18/02 9:15	12/23/02	Water Qualit	SW8270C_W		☐	☐	☐	B1
A1905-27A	AOC2TB5512	12/18/02 10:45	12/23/02	Soil	PMoist		☐	☐	☐	VOA
					SW8260B_LOW_S		☐	☐	☐	VOA
A1905-27B	AOC2TB5512	12/18/02 10:45	12/23/02	Soil	SW8260B_MED_S		☑	☐	☐	VOA
A1905-28A	AOC2TB5628	12/18/02 11:25	12/23/02	Soil	CTETPH_S		☐	☐	☐	B2
					E415_LK_TOC_S		☐	☐	☐	B2
					PMoist		☐	☐	☐	B2
					SW6010B_S	TAL	☐	☐	☑	B2
					SW7471A	TAL	☐	☐	☐	B2
					SW8082_S		☐	☐	☐	B2
					SW8270C_S		☐	☐	☐	B2
A1905-29A	AOC2TB5802	12/18/02 12:15	12/23/02	Soil	CTETPH_S		☐	☐	☐	B2
					PMoist		☐	☐	☐	B2
A1905-30A	AOC2TB57675	12/18/02 12:10	12/23/02	Soil	CTETPH_S		☐	☐	☐	B2

Client Rep: Agnes R Ng Page 12 of 13

Mitkem Corporation *31/Dec/02 12:27* **WorkOrder: A1905**

Client ID: HRP **Case:** **Report Level:** LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T **SDG:** **EDD:** XL
Location: HOW0016.RA **PO:** HOW0016.RA **HC Due:** 01/13/03
Comments: Data summary and CD-ROM of full package to HRP. Full paper package and EDD to Glenn Esler @ Env. Stds. **Fax Due:**

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1905-22A	AOC5SSTB7167	12/19/02 14:00	12/23/02	Soil	PMoist		☐	☐	☐	VOA
					SW8260B_LOW_S		☐	☐	☐	VOA
A1905-22B	AOC5SSTB7167	12/19/02 14:00	12/23/02	Soil	SW8260B_MED_S		☑	☐	☐	VOA
A1905-22C	AOC5SSTB7167	12/19/02 14:00	12/23/02	Soil	E415_LK_TOC_S		☐	☐	☐	B2
					SW6010B_S		☐	☐	☑	B2
A1905-23A	AOC5A5STB7002	12/19/02 13:20	12/23/02	Soil	PMoist		☐	☐	☐	VOA
					SW8260B_LOW_S		☐	☐	☐	VOA
A1905-23B	AOC5A5STB7002	12/19/02 13:20	12/23/02	Soil	SW8260B_MED_S		☑	☐	☐	VOA
A1905-23C	AOC5A5STB7002	12/19/02 13:20	12/23/02	Soil	SW8082_S		☐	☐	☐	B2
					SW8082_W	SPLP	☐	☐	☐	B2
A1905-24A	AOC5A5STB6975	12/19/02 13:15	12/23/02	Soil	PMoist		☐	☐	☐	VOA
					SW8260B_LOW_S		☐	☐	☐	VOA

Client Rep: Agnes R Ng Page 10 of 13

Mitkem Corporation *03/Feb/03 16:26* **WorkOrder: A1905**

Client ID: HRP **Case:** **Report Level:** LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T **SDG:** **EDD:** XL
Location: HOW0016.RA **PO:** HOW0016.RA **HC Due:** 01/13/03
Comments: Data summary and CD-ROM of full package to HRP. Full paper package and EDD to Glenn Esler @ Env. Stds. **Fax Due:**

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1905-26C	AOC2E6	12/18/02 9:15	12/23/02	Water Qualit	SW8270C_W		☐	☐	☐	B1
A1905-27A	AOC2TB5512	12/18/02 10:45	12/23/02	Soil	PMoist		☐	☐	☐	VOA
					SW8260B_LOW_S		☐	☐	☐	VOA
A1905-27B	AOC2TB5512	12/18/02 10:45	12/23/02	Soil	SW8260B_MED_S		☑	☐	☐	VOA
A1905-28A	AOC2TB5628	12/18/02 11:25	12/23/02	Soil	CTETPH_S		☐	☐	☐	B2
					E415_LK_TOC_S		☐	☐	☐	B2
					PMoist		☐	☐	☐	B2
					SW6010B_S	TAL	☐	☐	☑	B2
					SW7471A	TAL	☐	☐	☐	B2
					SW8082_S		☐	☐	☐	B2
					SW8270C_S		☐	☐	☐	B2
A1905-29A	AOC2TB5802	12/18/02 12:15	12/23/02	Soil	CTETPH_S		☐	☐	☐	B2
					PMoist		☐	☐	☐	B2
A1905-30A	AOC2TB57675	12/18/02 12:10	12/23/02	Soil	CTETPH_S		☐	☐	☐	B2

Client Rep: Agnes R Ng Page 12 of 13

Mitkem Corporation *31/Dec/02 12:27* **WorkOrder: A1905**

Client ID: HRP **Case:** **Report Level:** LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T **SDG:** **EDD:** XL
Location: HOW0016.RA **PO:** HOW0016.RA **HC Due:** 01/13/03
Comments: Data summary and CD-ROM of full package to HRP. Full paper package and EDD to Glenn Esler @ Env. Stds. **Fax Due:**

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1905-24B	AOC5ASSTB6975	12/19/02 13:15	12/23/02	Soil	SW8260B_MED_S		☑	☐	☐	VOA
A1905-25A	AOC5ASSTB68015	12/19/02 12:20	12/23/02	Soil	PMoist		☐	☐	☐	VOA
					SW8260B_LOW_S		☐	☐	☐	VOA
A1905-25B	AOC5ASSTB68015	12/19/02 12:20	12/23/02	Soil	SW8260B_MED_S		☑	☐	☐	VOA
A1905-25C	AOC5ASSTB68015	12/19/02 12:20	12/23/02	Soil	E415_LK_TOC_S		☐	☐	☐	B2
					SW6010B_S		☐	☐	☑	B2
					SW8082_S		☐	☐	☐	B2
					SW8082_W	SPLP	☐	☐	☐	B2
A1905-26A	AOC2E6	12/18/02 9:15	12/23/02	Water Qualit	SW6010B_W	TAL	☐	☐	☑	M2
					SW7470A	TAL	☐	☐	☐	M2
A1905-26B	AOC2E6	12/18/02 9:15	12/23/02	Water Qualit	CTETPH_W		☐	☐	☐	B1
A1905-26C	AOC2E6	12/18/02 9:15	12/23/02	Water Qualit	SW8082_W		☐	☐	☐	B1

Client Rep: Agnes R Ng Page 11 of 13

MITKEM CORPORATION

175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

REPORT TO

COMPANY: HRP Associates — PHONE: (860) 793-6899
NAME: Melody Bova — FAX: (860) 793-6871
ADDRESS: 167 New Britian Ave
CITY/ST/ZIP: Plainville, CT 06062

INVOICE TO

COMPANY: Same — PHONE:
NAME: — FAX:
ADDRESS:
CITY/ST/ZIP:

LAB PROJECT #: A1905
TURNAROUND TIME:

CLIENT PROJECT NAME: Howe Furniture
CLIENT PROJECT #: HOW0016.RA
CLIENT P.O.#:

REQUESTED ANALYSES: VOCs 8260B (SIM); SVOCs 8270C; Pesticides 8081A; Formaldehyde 8315; Mercaptobenzothiazole 8315; Cr(VI) 7196A; Hg 7471A; Sc; Ag; SPLP Metals (Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Pb, Mg, Mn, Ni, K, Se, Na, Tl, V, Zn, Fe); Cr, Co, Cu, Pb, Mg, Mn, Ni, Sb, As, Ba, Be, K, Se, Na, Tl, V, Zn, Hg, Sc, Ag

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	COMMENTS
17DEC02-AOC3-CT-CP-6 (0-0.5)	12/17/02 11:15					X	01	5	
17DEC02-AOC3-CT-CP-7 (0-0.5)	12/17/02 11:30					X	02	5	
17DEC02-AOC3-CT-CP-8 (0-0.5)	12/17/02 12:05					X	03	5	

TSP# 0

RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS	COOLER TEMP.
Dan Hudens	12/17/02 3:30	J. Davis	12-27-02 11:20	QL's must meet CT DEP RSR's + Approved alt. criteria	6°

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

0 22

Mitkem Corporation *31/Dec/02 12:27* **WorkOrder: A1905**

Client ID: HRP — Case: — Report Level: LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T — SDG: — EDD: XL
Location: HOW0016.RA — PO: HOW0016.RA — HC Due: 01/13/03
Comments: Data summary and CD-ROM of full package to HRP. Full paper package and EDD to Glenn Esler @ Env. Stds. — Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL	Storage
A1905-30A	AOC2TB57675	12/18/02 12:10	12/23/02	Soil	PMoist		☐	☐	☐	B2

0 20

Client Rep: Agnes R Ng

MITKEM CORPORATION

175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

Page 1 of 3

REPORT TO

COMPANY: HRP Associates — PHONE: (860) 793-6899
NAME: Melody Bova — FAX:
ADDRESS: 167 New Britian Ave
CITY/ST/ZIP: Plainville, CT 06062

INVOICE TO

COMPANY: Same — PHONE:
NAME: — FAX:
ADDRESS:
CITY/ST/ZIP:

LAB PROJECT #: A1905
TURN-AROUND TIME:

CLIENT PROJECT NAME: Howe Furniture
CLIENT PROJECT #: HOW0016.RA
CLIENT P.O.#:

REQUESTED ANALYSES: VOCs 8260B TAL/TCL; SVOCs 8270C TAL/TCL Metals; PCBs 8082; Pesticides 8081A; Formaldehyde; Fe; TOC

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	COMMENTS
									All on 12/16/02
16DEC02-AOC3-SS-TB-49 (0-2)	Sample Time				X		04	5	1:05
16DEC02-AOC3-SS-TB53 (1-2)					X		05	4	2:35
16DEC02-AOC3-SS-TB54(0-2)					X		06	5	3:05
16DEC02-AOC3-BB-3						X	07	1	Bottle Blank 12:00
16DEC02-AOC3-BB-4						X	08	1	Bottle Blank 12:05
16 DEC02-AOC3-T2				X			09	2	Trip Blank 12:10
16 DEC02-AOC3-E5				X			10	7	Equip. Blank 12:15
16 DEC02-AOC3-SS-DS1(4-5)					X		11	1	Duplicate 1:15
16 DEC02-AOC3-SS-DS8(4-5)					X		12	1	Duplicate 1:20
16 DEC02-AOC3-SS-TB49(4-5)					X		13	1	1:10

TSP# 0

RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS	COOLER TEMP.
Dan Hudens	12/20/02 10:30	J. Davis	12-23-02 11:20	QL's must meet CT DEP RSRs + approved alt. criteria	6°

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

0 21

Sample Transmittal Documentation

MITKEM CORPORATION
175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

Page 3 of 3

COMPANY: HRP Associates | PHONE: (860) 793-6899 | FAX: (860) 793-6871
NAME: Melody Bova
ADDRESS: 167 New Britain Ave
CITY/ST/ZIP: Plainville, CT 06062
COMPANY (Invoice to): Same
LAB PROJECT #: A1905
CLIENT PROJECT NAME: Howe Furniture
CLIENT PROJECT #: HOWOO16.RA

REQUESTED ANALYSES: VOCs 8260B TAL/TCL; CT ETPH; SVOCs 8270C TAL/TCL; TAL/TCL Metals; PCBs 8082; Fe; TOC; 8RCRA+Cu,Ni,Zn Total; 8RCRA+Cu,Ni,Zn Dissolved, Ni; B, F, Cl, Mn, SO4, NH3; SPLP PCBs

COMMENTS: All samples 12/19/02

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	WATER	SOIL	LAB ID	# OF CONTAINERS	COMMENTS	Sample Time
19DEC02-AOC5-EB	12/19/02 12:50	X		14	7	Equip Blank	12:50
19DEC02-AOC5-SS-TB62 (6-7)			X	15	4		9:50
19DEC02-AOC5-W-TB62GW		X		16	7	Grab Water	10:00
19DEC02-AOC7-SS-TB65(7-8)			X	17	4		11:15
19DEC02-AOC7-W-TB65GW		X		18	7	Grab Water	11:20
19DEC02-AOC5A-SS-TB69(5-6)			X	19	1		1:00
19DEC02-AOC5A-SS-D7A(5-6)			X	20	1		1:05
19DEC02-AOC6-SS-TB71(6-7)			X	22	4		2:00
19DEC02-AOC5A-SS-D7B(5-6)			X	24	1		1:07
19DEC02-AOC5A-SS-TB70(0-2)			X	23	4		1:20
19DEC02-AOC5A-SS-TB69(7-8)			X	24	4		1:15
19DEC02-AOC5A-SS-TB68(0-15)			X	25	5		12:30

RELINQUISHED BY: Dean Hadzima — DATE/TIME: 12/20/02 10:30 — ACCEPTED BY: J. Davis — DATE/TIME: 12-23-02 11:20

ADDITIONAL REMARKS: QLs must meet CT DEP RSRs + approved alt. Criteria. Grab Water Dissolved Metals Field Filtered

COOLER TEMP: 6°

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

MITKEM CORPORATION
175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

Page 2 of 3

COMPANY: HRP Associates | PHONE: (860) 793-6899 | FAX: (860) 793-6871
NAME: Melody Bova
ADDRESS: 167 New Britain Ave
CITY/ST/ZIP: Plainville, CT 06062
COMPANY (Invoice to): Same
LAB PROJECT #: A1905
CLIENT PROJECT NAME: Howe Furniture
CLIENT PROJECT #: HOWOO16.RA

REQUESTED ANALYSES: VOCs 8260B TAL/TCL; SVOCs 8270C TAL/TCL; TAL/TCL Metals; PCBs 8082; CT ETPH; TOC; Fe

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	WATER	SOIL	LAB ID	# OF CONTAINERS	COMMENTS
18DEC02-AOC2-E6	12/18/02 9:15	X		26	7	Equipment Blank
18DEC02-AOC2-TB55 (1-2)			X	27	4	12/18/02 10:45
18DEC02-AOC2-TB56 (2-4)			X	28	2	11:25
18DEC02-AOC2-TB58 (0-2)			X	29	2	12:15
18DEC02-AOC2-TB57 (6-7.5)			X	30	2	12:10

RELINQUISHED BY: Dean Hadzima — DATE/TIME: 12/20/02 10:30 — ACCEPTED BY: J. Davis — DATE/TIME: 12-23-02 11:20

ADDITIONAL REMARKS: QLs must meet CT DEP RSRs + approved alt. criteria

COOLER TEMP: 6°

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

0 25

Page 1 of 1

Sample Condition Notification

Mitkem Project#: A1905 Date of Receipt: 12-23-02
Client: HRP Received By: PAS / JD
Client project #/name: Howe Furniture

Unusual Occurance Description:

E5 - All Amber liters and VOAs rec'd broken; sampled 12/16
E6 - VOAs rec'd broken; sampled 12/18

Client Contacted:
Contacted via: (Phone/Fax/E-mail)
Date: 12-23-02 Time: 1120
Contacted By: PAS
Name of person contacted: Melody Bova / Dan Titus

Client Response:
Responded via: Phone/Fax/E-mail
Date:
Name of person responding:
Responding to:

Mitkem Action Taken:

0 26

MITKEM CORPORATION

* Volatiles *

0 27

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

	EPA SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	VBLK6R	95	90	98	90	0
02	V6RLCS	106	101	101	97	0
03	AOC3T2	90	89	102	89	0
04	AOC5E7	95	85	103	88	0
05	AOC5WTB62W	95	89	105	90	0
06	AOC7WTB65GW	94	84	102	87	0
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
SMC1	= Dibromofluoromethane	(78-117)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(62-124)
SMC3 (TOL)	= Toluene-d8	(81-116)
OTHER (BFB)	= Bromofluorobenzene	(74-126)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	VBLK1K	95	90	97	91	0
02	V1KLCS	98	102	91	94	0
03	V1KLCSD	100	100	95	97	0
04	AOC3CTCP6	99	101	101	85	0
05	AOC3SSTB4902	98	100	93	84	0
06	AOC3SSTB5312	101	106	97	84	0
07	AOC3SSTB5402	95	102	88	84	0
08	AOC3CTCP7	18*	91	97	77	1
09	AOC3CTCP8	25*	96	97	85	1
10	AOC7SSTB6578	97	94	109	67	0
11	AOC6SSTB7167	100	101	105	72	0
12	AOC5ASSTB700	100	107	92	82	0
13	AOC5ASSTB697	95	94	109	63	0
14	AOC5ASSTB680	70	55	87	55	0
15	AOC3CTCP6RE	82	62	109	82	0
16	AOC2TB5512	104	112	98	88	0
17	VBLK1L	95	91	97	90	0
18	V1LLCS	111	110	102	107	0
19	AOC3CTCP7RE	76	88	102	80	0
20	AOC5ASSTB680	91	86	99	82	0
21	AOC5SSTB6267	94	85	104	79	0
22						
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
SMC1	= Dibromofluoromethane	(52-130)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(50-126)
SMC3 (TOL)	= Toluene-d8	(25-156)
OTHER (BFB)	= Bromofluorobenzene	(49-146)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Level: (low/med) MED

	EPA SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	VBLK6U	94	85	102	90	0
02	V6ULCS	104	98	104	101	0
03	AOC3CTCP8DL	92	87	101	92	0
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
SMC1	= Dibromofluoromethane	(52-130)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(50-126)
SMC3 (TOL)	= Toluene-d8	(25-156)
OTHER (BFB)	= Bromofluorobenzene	(49-146)

Column to be used to flag recovery values

* Values outside of contract required QC limits

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V1KLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	50		45	90	58-131
Chloromethane	50		48	96	63-120
Vinyl Chloride	50		48	96	61-134
Bromomethane	50		42	84	10-215
Chloroethane	50		44	88	55-146
Trichlorofluoromethane	50		48	96	63-126
1,1-Dichloroethene	50		48	96	67-127
Acetone	50		45	90	0-154
Methylene Chloride	50		45	90	62-128
trans-1,2-Dichloroethen	50		48	96	76-120
Methyl tert-butyl ether	50		55	110	52-130
1,1-Dichloroethane	50		49	98	74-118
2-Butanone	50		55	110	14-154
cis-1,2-Dichloroethene	50		49	98	83-115
2,2-Dichloropropane	50		48	96	64-125
Bromochloromethane	50		50	100	70-119
Chloroform	50		50	100	77-120
Tetrahydrofuran	50		56	112	70-130
1,1,1-Trichloroethane	50		48	96	72-126
1,1-Dichloropropene	50		47	94	71-132
Carbon Tetrachloride	50		47	94	69-135
1,2-Dichloroethane	50		53	106	65-126
Benzene	50		49	98	78-121
Trichloroethene	50		48	96	75-125
1,2-Dichloropropane	50		50	100	78-117
Dibromomethane	50		51	102	65-125
Bromodichloromethane	50		50	100	75-118
cis-1,3-Dichloropropene	50		50	100	78-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V1KLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
4-Methyl-2-pentanone	50		55	110	45-141
Toluene	50		48	96	80-126
trans-1,3-Dichloroprope	50		52	104	73-123
1,1,2-Trichloroethane	50		50	100	66-125
1,3-Dichloropropane	50		51	102	76-119
Tetrachloroethene	50		46	92	65-134
2-Hexanone	50		57	114	37-136
Dibromochloromethane	50		50	100	76-115
1,2-Dibromoethane	50		51	102	72-117
Chlorobenzene	50		47	94	78-117
1,1,1,2-Tetrachloroetha	50		49	98	80-115
Ethylbenzene	50		47	94	79-129
Xylene (Total)	150		140	93	83-125
Styrene	50		50	100	83-122
Bromoform	50		51	102	67-126
Isopropylbenzene	50		47	94	80-135
1,1,2,2-Tetrachloroetha	50		48	96	70-117
Bromobenzene	50		47	94	79-119
1,2,3-Trichloropropane	50		48	96	0-154
n-Propylbenzene	50		45	90	64-141
2-Chlorotoluene	50		46	92	70-132
1,3,5-Trimethylbenzene	50		46	92	72-133
4-Chlorotoluene	50		45	90	77-122
tert-Butylbenzene	50		43	86	31-159
1,2,4-Trimethylbenzene	50		46	92	73-126
sec-Butylbenzene	50		45	90	68-137
4-Isopropyltoluene	50		45	90	66-131
1,3-Dichlorobenzene	50		46	92	75-115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V1KLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
1,4-Dichlorobenzene	50		46	92	72-110
n-Butylbenzene	50		45	90	66-130
1,2-Dichlorobenzene	50		45	90	78-113
1,2-Dibromo-3-chloropro	50		48	96	52-128
1,2,4-Trichlorobenzene	50		46	92	49-126
Hexachlorobutadiene	50		46	92	58-115
Naphthalene	50		43	86	45-130
1,2,3-Trichlorobenzene	50		44	88	44-131
1-Chlorohexane	50		45	90	70-130
Acrylonitrile	250		220	88	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V1KLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	50	42	84	7	40	58-131
Chloromethane	50	49	98	2	40	63-120
Vinyl Chloride	50	48	96	0	40	61-134
Bromomethane	50	44	88	5	40	10-215
Chloroethane	50	45	90	2	40	55-146
Trichlorofluoromethane	50	46	92	4	40	63-126
1,1-Dichloroethene	50	50	100	4	40	67-127
Acetone	50	44	88	2	40	0-154
Methylene Chloride	50	47	94	4	40	62-128
trans-1,2-Dichloroethen	50	49	98	2	40	76-120
Methyl tert-butyl ether	50	35	70	44*	40	52-130
1,1-Dichloroethane	50	51	102	4	40	74-118
2-Butanone	50	52	104	6	40	14-154
cis-1,2-Dichloroethene	50	50	100	2	40	83-115
2,2-Dichloropropane	50	47	94	2	40	64-125
Bromochloromethane	50	51	102	2	40	70-119
Chloroform	50	51	102	2	40	77-120
Tetrahydrofuran	50	54	108	4	40	70-130
1,1,1-Trichloroethane	50	49	98	2	40	72-126
1,1-Dichloropropene	50	49	98	4	40	71-132
Carbon Tetrachloride	50	49	98	4	40	69-135
1,2-Dichloroethane	50	54	108	2	40	65-126
Benzene	50	50	100	2	40	78-121
Trichloroethene	50	50	100	4	40	75-125
1,2-Dichloropropane	50	51	102	2	40	78-117
Dibromomethane	50	52	104	2	40	65-125
Bromodichloromethane	50	52	104	4	40	75-118
cis-1,3-Dichloropropene	50	52	104	4	40	78-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V1KLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
4-Methyl-2-pentanone	50	52	104	6	40	45-141
Toluene	50	50	100	4	40	80-126
trans-1,3-Dichloroprope	50	52	104	0	40	73-123
1,1,2-Trichloroethane	50	52	104	4	40	66-125
1,3-Dichloropropane	50	52	104	2	40	76-119
Tetrachloroethene	50	50	100	8	40	65-134
2-Hexanone	50	53	106	7	40	37-136
Dibromochloromethane	50	51	102	2	40	76-115
1,2-Dibromoethane	50	52	104	2	40	72-117
Chlorobenzene	50	49	98	4	40	78-117
1,1,1,2-Tetrachloroetha	50	50	100	2	40	80-115
Ethylbenzene	50	50	100	6	40	79-129
Xylene (Total)	150	140	93	0	40	83-125
Styrene	50	50	100	0	40	83-122
Bromoform	50	51	102	0	40	67-126
Isopropylbenzene	50	49	98	4	40	80-135
1,1,2,2-Tetrachloroetha	50	48	96	0	40	70-117
Bromobenzene	50	49	98	4	40	79-119
1,2,3-Trichloropropane	50	50	100	4	40	0-154
n-Propylbenzene	50	48	96	6	40	64-141
2-Chlorotoluene	50	48	96	4	40	70-132
1,3,5-Trimethylbenzene	50	47	94	2	40	72-133
4-Chlorotoluene	50	48	96	6	40	77-122
tert-Butylbenzene	50	46	92	7	40	31-159
1,2,4-Trimethylbenzene	50	48	96	4	40	73-126
sec-Butylbenzene	50	47	94	4	40	68-137
4-Isopropyltoluene	50	47	94	4	40	66-131
1,3-Dichlorobenzene	50	48	96	4	40	75-115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V1KLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,4-Dichlorobenzene	50	48	96	4	40	72-110
n-Butylbenzene	50	47	94	4	40	66-130
1,2-Dichlorobenzene	50	47	94	4	40	78-113
1,2-Dibromo-3-chloropro	50	48	96	0	40	52-128
1,2,4-Trichlorobenzene	50	47	94	2	40	49-126
Hexachlorobutadiene	50	49	98	6	40	58-115
Naphthalene	50	44	88	2	40	45-130
1,2,3-Trichlorobenzene	50	46	92	4	40	44-131
1-Chlorohexane	50	47	94	4	40	70-130
Acrylonitrile	250	260	104	17	40	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 66 outside limits
Spike Recovery: 0 out of 132 outside limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V1LLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	50		48	96	58-131
Chloromethane	50		53	106	63-120
Vinyl Chloride	50		53	106	61-134
Bromomethane	50		42	84	10-215
Chloroethane	50		43	86	55-146
Trichlorofluoromethane	50		51	102	63-126
1,1-Dichloroethene	50		53	106	67-127
Acetone	50		54	108	0-154
Methylene Chloride	50		53	106	62-128
trans-1,2-Dichloroethen	50		50	100	76-120
Methyl tert-butyl ether	50		57	114	52-130
1,1-Dichloroethane	50		52	104	74-118
2-Butanone	50		62	124	14-154
cis-1,2-Dichloroethene	50		50	100	83-115
2,2-Dichloropropane	50		50	100	64-125
Bromochloromethane	50		52	104	70-119
Chloroform	50		53	106	77-120
Tetrahydrofuran	50		61	122	70-130
1,1,1-Trichloroethane	50		50	100	72-126
1,1-Dichloropropene	50		51	102	71-132
Carbon Tetrachloride	50		50	100	69-135
1,2-Dichloroethane	50		56	112	65-126
Benzene	50		52	104	78-121
Trichloroethene	50		51	102	75-125
1,2-Dichloropropane	50		53	106	78-117
Dibromomethane	50		55	110	65-125
Bromodichloromethane	50		53	106	75-118
cis-1,3-Dichloropropene	50		53	106	78-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V1LLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
4-Methyl-2-pentanone	50		64	128	45-141
Toluene	50		51	102	80-126
trans-1,3-Dichloroprope	50		55	110	73-123
1,1,2-Trichloroethane	50		54	108	66-125
1,3-Dichloropropane	50		55	110	76-119
Tetrachloroethene	50		50	100	65-134
2-Hexanone	50		65	130	37-136
Dibromochloromethane	50		52	104	76-115
1,2-Dibromoethane	50		54	108	72-117
Chlorobenzene	50		49	98	78-117
1,1,1,2-Tetrachloroetha	50		50	100	80-115
Ethylbenzene	50		50	100	79-129
Xylene (Total)	150		150	100	83-125
Styrene	50		52	104	83-122
Bromoform	50		53	106	67-126
Isopropylbenzene	50		50	100	80-135
1,1,2,2-Tetrachloroetha	50		51	102	70-117
Bromobenzene	50		49	98	79-119
1,2,3-Trichloropropane	50		54	108	0-154
n-Propylbenzene	50		49	98	64-141
2-Chlorotoluene	50		47	94	70-132
1,3,5-Trimethylbenzene	50		48	96	72-133
4-Chlorotoluene	50		48	96	77-122
tert-Butylbenzene	50		47	94	31-159
1,2,4-Trimethylbenzene	50		48	96	73-126
sec-Butylbenzene	50		47	94	68-137
4-Isopropyltoluene	50		48	96	66-131
1,3-Dichlorobenzene	50		48	96	75-115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V1LLCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
1,4-Dichlorobenzene	50		47	94	72-110
n-Butylbenzene	50		49	98	66-130
1,2-Dichlorobenzene	50		47	94	78-113
1,2-Dibromo-3-chloropro	50		53	106	52-128
1,2,4-Trichlorobenzene	50		47	94	49-126
Hexachlorobutadiene	50		48	96	58-115
Naphthalene	50		47	94	45-130
1,2,3-Trichlorobenzene	50		47	94	44-131
1-Chlorohexane	50		49	98	70-130
Acrylonitrile	250		290	116	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 66 outside limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V6ULCS Level: (low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	2500		2600	104	58-131
Chloromethane	2500		2800	112	63-120
Vinyl Chloride	2500		2700	108	61-134
Bromomethane	2500		3300	132	10-215
Chloroethane	2500		3200	128	55-146
Trichlorofluoromethane	2500		2400	96	63-126
1,1-Dichloroethene	2500		2500	100	67-127
Acetone	2500		1900	76	0-154
Methylene Chloride	2500		2500	100	62-128
Acrylonitrile	2500		11000	440*	0-100
trans-1,2-Dichloroethen	2500		2600	104	76-120
Methyl tert-butyl ether	2500		2400	96	52-130
1,1-Dichloroethane	2500		2500	100	74-118
2-Butanone	2500		2000	80	14-154
cis-1,2-Dichloroethene	2500		2600	104	83-115
2,2-Dichloropropane	2500		2600	104	64-125
Bromochloromethane	2500		2500	100	70-119
Chloroform	2500		2600	104	77-120
Tetrahydrofuran	2500		2400	96	0-100
1,1,1-Trichloroethane	2500		2600	104	72-126
1,1-Dichloropropene	2500		2600	104	71-132
Carbon Tetrachloride	2500		2600	104	69-135
1,2-Dichloroethane	2500		2400	96	65-126
Benzene	2500		2600	104	78-121
Trichloroethene	2500		2600	104	75-125
1,2-Dichloropropane	2500		2500	100	78-117
Dibromomethane	2500		2400	96	65-125
Bromodichloromethane	2500		2600	104	75-118

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V6ULCS Level: (low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
cis-1,3-Dichloropropene	2500		2500	100	78-120
4-Methyl-2-pentanone	2500		2100	84	45-141
Toluene	2500		2700	108	80-126
trans-1,3-Dichloroprope	2500		2500	100	73-123
1,1,2-Trichloroethane	2500		2400	96	66-125
1,3-Dichloropropane	2500		2300	92	76-119
Tetrachloroethene	2500		2500	100	65-134
2-Hexanone	2500		2100	84	37-136
Dibromochloromethane	2500		2500	100	76-115
1,2-Dibromoethane	2500		2400	96	72-117
Chlorobenzene	2500		2600	104	78-117
1,1,1,2-Tetrachloroetha	2500		2600	104	80-115
Ethylbenzene	2500		2600	104	79-129
Xylene (Total)	7500		7800	104	83-125
Styrene	2500		2600	104	83-122
Bromoform	2500		2500	100	67-126
Isopropylbenzene	2500		2700	108	80-135
1,1,2,2-Tetrachloroetha	2500		2200	88	70-117
Bromobenzene	2500		2600	104	79-119
1,2,3-Trichloropropane	2500		2300	92	0-154
n-Propylbenzene	2500		2500	100	64-141
2-Chlorotoluene	2500		2500	100	70-132
1,3,5-Trimethylbenzene	2500		2600	104	72-133
4-Chlorotoluene	2500		2500	100	77-122
tert-Butylbenzene	2500		2600	104	31-159
1,2,4-Trimethylbenzene	2500		2600	104	73-126
sec-Butylbenzene	2500		2600	104	68-137
4-Isopropyltoluene	2500		2600	104	66-131

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V6ULCS Level: (low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
1,3-Dichlorobenzene	2500		2600	104	75-115
1,4-Dichlorobenzene	2500		2600	104	72-110
n-Butylbenzene	2500		2600	104	66-130
1,2-Dichlorobenzene	2500		2500	100	78-113
1,2-Dibromo-3-chloropro	2500		2100	84	52-128
1,2,4-Trichlorobenzene	2500		2500	100	49-126
Hexachlorobutadiene	2500		2500	100	58-115
Naphthalene	2500		2300	92	45-130
1,2,3-Trichlorobenzene	2500		2400	96	44-131
1-Chlorohexane	2500		2500	100	0-100

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 1 out of 66 outside limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V6RLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	50		51	102	48-135
Chloromethane	50		46	92	60-118
Vinyl Chloride	50		44	88	65-113
Bromomethane	50		56	112	73-122
Chloroethane	50		50	100	72-118
Trichlorofluoromethane	50		46	92	68-129
1,1-Dichloroethene	50		48	96	67-121
Acetone	50		32	64	38-161
Methylene Chloride	50		49	98	59-132
Acrylonitrile	250		210	84	45-172
trans-1,2-Dichloroethen	50		49	98	71-124
Methyl tert-butyl ether	50		47	94	75-123
1,1-Dichloroethane	50		45	90	83-116
2-Butanone	50		39	78	64-139
cis-1,2-Dichloroethene	50		50	100	83-120
2,2-Dichloropropane	50		48	96	70-129
Bromochloromethane	50		53	106	85-124
Chloroform	50		48	96	89-118
Tetrahydrofuran	50		46	92	76-126
1,1,1-Trichloroethane	50		49	98	81-122
1,1-Dichloropropene	50		53	106	76-122
Carbon Tetrachloride	50		52	104	79-125
1,2-Dichloroethane	50		44	88	83-123
Benzene	50		48	96	81-120
Trichloroethene	50		55	110	77-121
1,2-Dichloropropane	50		46	92	81-116
Dibromomethane	50		48	96	86-124
Bromodichloromethane	50		49	98	90-114

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V6RLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
cis-1,3-Dichloropropene	50		49	98	78-119
4-Methyl-2-pentanone	50		40	80	57-138
Toluene	50		52	104	81-121
trans-1,3-Dichloroprope	50		48	96	85-118
1,1,2-Trichloroethane	50		49	98	44-159
1,3-Dichloropropane	50		46	92	79-125
Tetrachloroethene	50		54	108	73-121
2-Hexanone	50		40	80	53-145
Dibromochloromethane	50		52	104	80-124
1,2-Dibromoethane	50		49	98	80-124
Chlorobenzene	50		50	100	82-118
1,1,1,2-Tetrachloretha	50		51	102	84-121
Ethylbenzene	50		50	100	80-122
Xylene (Total)	150		150	100	81-121
Styrene	50		50	100	77-128
Bromoform	50		57	114	77-130
Isopropylbenzene	50		52	104	58-148
1,1,2,2-Tetrachloretha	50		43	86	76-125
Bromobenzene	50		52	104	76-124
1,2,3-Trichloropropane	50		44	88	57-140
n-Propylbenzene	50		50	100	72-119
2-Chlorotoluene	50		50	100	75-120
1,3,5-Trimethylbenzene	50		49	98	76-116
4-Chlorotoluene	50		49	98	78-116
tert-Butylbenzene	50		50	100	71-115
1,2,4-Trimethylbenzene	50		48	96	77-117
sec-Butylbenzene	50		49	98	67-117
4-Isopropyltoluene	50		49	98	68-118

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS:

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: V6RLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,3-Dichlorobenzene	50		51	102	80-116
1,4-Dichlorobenzene	50		51	102	80-114
n-Butylbenzene	50		48	96	58-121
1,2-Dichlorobenzene	50		50	100	81-116
1,2-Dibromo-3-chloropro	50		40	80	71-126
1,2,4-Trichlorobenzene	50		53	106	67-114
Hexachlorobutadiene	50		53	106	50-111
Naphthalene	50		47	94	58-133
1,2,3-Trichlorobenzene	50		51	102	64-118
1-Chlorohexane	50		48	96	70-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 66 outside limits

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK1K

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID: V1F1876 Lab Sample ID: V1B1230A

Date Analyzed: 12/30/02 Time Analyzed: 1307

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: V1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V1LKCS	V1L1230A	V1F1877	1414
02	V1LKCSD	V1L1230B	V1F1878	1445
03	AOC3CTCP6	A1905-01A	V1F1879	1519
04	AOC3SSTB4902	A1905-04A	V1F1880	1550
05	AOC3SSTB5312	A1905-05A	V1F1881	1621
06	AOC3SSTB5402	A1905-06A	V1F1882	1651
07	AOC3CTCP7	A1905-02A	V1F1883	1721
08	AOC3CTCP8	A1905-03A	V1F1884	1751
09	AOC7SSTB6578	A1905-17A	V1F1886	1851
10	AOC6SSTB7167	A1905-22A	V1F1887	1920
11	AOC5ASSTB700	A1905-23A	V1F1888	1951
12	AOC5ASSTB697	A1905-24A	V1F1889	2021
13	AOC5ASSTB680	A1905-25A	V1F1890	2050
14	AOC3CTCP6RE	A1905-01ARE	V1F1891	2120
15	AOC2TB5512	A1905-27A	V1F1892	2150
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK1L

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID: V1F1902 Lab Sample ID: V1B1231A

Date Analyzed: 12/31/02 Time Analyzed: 1017

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: V1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V1LLCS	V1L1231A	V1F1903	1052
02	AOC3CTCP7RE	A1905-02ARE	V1F1905	1153
03	AOC5ASSTB680	A1905-25ARE	V1F1906	1222
04	AOC5SSTB6267	A1905-15A	V1F1911	1606
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK6R

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID: V6C4182 Lab Sample ID: V6B1229A

Date Analyzed: 12/29/02 Time Analyzed: 1548

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: V6

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V6BLCS	V6L1229A	V6C4183	1620
02	AOC3T2	A1905-09A	V6C4194	2129
03	AOC5E7	A1905-14A	V6C4195	2156
04	AOC5WTB62W	A1905-16A	V6C4196	2223
05	AOC7WTB65GW	A1905-18A	V6C4197	2250
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK6U

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID: V6C4242 Lab Sample ID: V6B1231A

Date Analyzed: 12/31/02 Time Analyzed: 1100

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: V6

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V6ULCS	V6L1231A	V6C4244	1258
02	AOC3CTCP8DL	A1905-03ADL	V6C4246	1400
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID: V1F1870A BFB Injection Date: 12/30/02

Instrument ID: V1 BFB Injection Time: 1005

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.8
75	30.0 - 60.0% of mass 95	48.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	79.8
175	5.0 - 9.0% of mass 174	5.8 (7.3)1
176	95.0 - 101.0% of mass 174	78.5 (98.3)1
177	5.0 - 9.0% of mass 176	5.0 (6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0501K	V1S1230A	V1F1871	12/30/02	1020
02	VSTD0051K	V1S1230B	V1F1872	12/30/02	1050
03	VSTD2001K	V1S1230C	V1F1873	12/30/02	1121
04	VSTD1001K	V1S1230D	V1F1874	12/30/02	1152
05	VSTD0201K	V1S1230E	V1F1875	12/30/02	1223
06	VBLK1K	V1B1230A	V1F1876	12/30/02	1307
07	V1KLCS	V1L1230A	V1F1877	12/30/02	1414
08	V1KLCSD	V1L1230B	V1F1878	12/30/02	1445
09	AOC3CTCP6	A1905-01A	V1F1879	12/30/02	1519
10	AOC3SSTB4902	A1905-04A	V1F1880	12/30/02	1550
11	AOC3SSTB5312	A1905-05A	V1F1881	12/30/02	1621
12	AOC3SSTB5402	A1905-06A	V1F1882	12/30/02	1651
13	AOC3CTCP7	A1905-02A	V1F1883	12/30/02	1721
14	AOC3CTCP8	A1905-03A	V1F1884	12/30/02	1751
15	AOC7SSTB6578	A1905-17A	V1F1886	12/30/02	1851
16	AOC6SSTB7167	A1905-22A	V1F1887	12/30/02	1920
17	AOC5ASSTB700	A1905-23A	V1F1888	12/30/02	1951
18	AOC5ASSTB697	A1905-24A	V1F1889	12/30/02	2021
19	AOC5ASSTB680	A1905-25A	V1F1890	12/30/02	2050
20	AOC3CTCP6RE	A1905-01ARE	V1F1891	12/30/02	2120
21	AOC2TB5512	A1905-27A	V1F1892	12/30/02	2150
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID: V1F1900 BFB Injection Date: 12/31/02

Instrument ID: V1 BFB Injection Time: 0904

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.1
75	30.0 - 60.0% of mass 95	50.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	77.0
175	5.0 - 9.0% of mass 174	5.7 (7.4)1
176	95.0 - 101.0% of mass 174	75.1 (97.5)1
177	5.0 - 9.0% of mass 176	4.8 (6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0501L	V1S1231A	V1F1901	12/31/02	0941
02	VBLK1L	V1B1231A	V1F1902	12/31/02	1017
03	V1LLCS	V1L1231A	V1F1903	12/31/02	1052
04	AOC3CTCP7RE	A1905-02ARE	V1F1905	12/31/02	1153
05	AOC5ASSTB680	A1905-25ARE	V1F1906	12/31/02	1222
06	AOC5SSTB6267	A1905-15A	V1F1911	12/31/02	1606
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID: V6C4100 BFB Injection Date: 12/24/02

Instrument ID: V6 BFB Injection Time: 1252

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.5
75	30.0 - 60.0% of mass 95	50.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.3 (0.4)1
174	50.0 - 100.0% of mass 95	76.8
175	5.0 - 9.0% of mass 174	5.5 (7.1)1
176	95.0 - 101.0% of mass 174	74.3 (96.8)1
177	5.0 - 9.0% of mass 176	4.3 (5.8)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD2006N	V6S1224D	V6C4106	12/24/02	1515
02	VSTD1006N	V6S1224E	V6C4107	12/24/02	1545
03	VSTD0506N	V6S1224A	V6C4108	12/24/02	1615
04	VSTD0206N	V6S1224F	V6C4109	12/24/02	1654
05	VSTD0056N	V6S1224B	V6C4110	12/24/02	1724
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID: V6C4180 BFB Injection Date: 12/29/02

Instrument ID: V6 BFB Injection Time: 1459

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.1
75	30.0 - 60.0% of mass 95	44.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	92.8
175	5.0 - 9.0% of mass 174	6.6 (7.1)1
176	95.0 - 101.0% of mass 174	91.9 (99.0)1
177	5.0 - 9.0% of mass 176	6.6 (7.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0506R	V6S1229A	V6C4181	12/29/02	1513
02	VBLK6R	V6B1229A	V6C4182	12/29/02	1548
03	V6RLCS	V6L1229A	V6C4183	12/29/02	1620
04	AOC3T2	A1905-09A	V6C4194	12/29/02	2129
05	AOC5E7	A1905-14A	V6C4195	12/29/02	2156
06	AOC5WTB62W	A1905-16A	V6C4196	12/29/02	2223
07	AOC7WTB65GW	A1905-18A	V6C4197	12/29/02	2250
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID: V6C4240 BFB Injection Date: 12/31/02

Instrument ID: V6 BFB Injection Time: 0959

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.9
75	30.0 - 60.0% of mass 95	47.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	81.4
175	5.0 - 9.0% of mass 174	5.7 (7.0)1
176	95.0 - 101.0% of mass 174	77.4 (95.2)1
177	5.0 - 9.0% of mass 176	5.4 (6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0506U	V6S1231A	V6C4241	12/31/02	1012
02	VBLK6U	V6B1231A	V6C4242	12/31/02	1100
03	V6ULCS	V6L1231A	V6C4244	12/31/02	1258
04	AOC3CTCP8DL	A1905-03ADL	V6C4246	12/31/02	1400
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): V1F1871 Date Analyzed: 12/30/02

Instrument ID: V1 Time Analyzed: 1020

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

		IS1 AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	939689	5.96	640526	9.64	373393	12.60
	UPPER LIMIT	1879378	6.46	1281052	10.14	746786	13.10
	LOWER LIMIT	469845	5.46	320263	9.14	186697	12.10
	EPA SAMPLE NO.						
01	VBLK1K	1011395	5.97	690082	9.64	345412	12.60
02	V1KLCS	812360	5.96	573340	9.64	342965	12.60
03	V1KLCSD	803545	5.96	562356	9.64	336243	12.60
04	AOC3CTCP6	291219*	5.97	177218*	9.64	69953*	12.60
05	AOC3SSTB4902	821388	5.97	565056	9.64	265554	12.60
06	AOC3SSTB5312	738002	5.97	477921	9.64	200230	12.60
07	AOC3SSTB5402	759711	5.97	530913	9.64	251909	12.61
08	AOC3CTCP7	340462*	5.97	195285*	9.64	69537*	12.60
09	AOC3CTCP8	518900	5.97	307716*	9.64	124871*	12.59
10	AOC7SSTB6578	665269	5.97	344339	9.64	98000*	12.60
11	AOC6SSTB7167	578076	5.97	318672*	9.64	97021*	12.60
12	AOC5ASSTB700	717656	5.97	493241	9.64	204631	12.60
13	AOC5ASSTB697	806427	5.97	426614	9.64	99057*	12.60
14	AOC5ASSTB680	137100*	5.97	74909*	9.65	18770*	12.62
15	AOC3CTCP6RR	336826*	5.97	179979*	9.65	60465*	12.61
16	AOC2TB5512	640721	5.97	415298	9.64	168185*	12.61
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): V1F1901 Date Analyzed: 12/31/02

Instrument ID: V1 Time Analyzed: 0941

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

		IS1 AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	831928	5.98	586937	9.65	360372	12.61
	UPPER LIMIT	1663856	6.48	1173874	10.15	720744	13.11
	LOWER LIMIT	415964	5.48	293469	9.15	180186	12.11
	EPA SAMPLE NO.						
01	VBLK1L	956351	5.98	650148	9.66	325157	12.62
02	V1LLCS	754451	5.98	535477	9.66	326029	12.62
03	AOC3CTCP7RE	331527*	5.98	189694*	9.66	67523*	12.62
04	AOC5ASSTB680	352318*	5.98	225810*	9.66	91689*	12.62
05	AOC5SSTB6267	876418	5.99	528132	9.67	194704	12.62
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): V6C4181 Date Analyzed: 12/29/02

Instrument ID: V6 Time Analyzed: 1513

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1 AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	1060207	7.02	889517	10.76	479503	13.59
	UPPER LIMIT	2120414	7.52	1779034	11.26	959006	14.09
	LOWER LIMIT	530104	6.52	444759	10.26	239752	13.09
	EPA SAMPLE NO.						
01	VBLK6R	1108880	7.02	857579	10.77	443590	13.58
02	V6RLCS	1205478	7.02	965635	10.76	487008	13.59
03	AOC3T2	943981	7.03	680897	10.77	313890	13.59
04	AOC5B7	915988	7.03	662485	10.77	303148	13.59
05	AOC5WTB62W	885032	7.03	637827	10.77	291738	13.59
06	AOC7WTB65GW	842970	7.03	611459	10.77	279458	13.59
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): V6C4241 Date Analyzed: 12/31/02

Instrument ID: V6 Time Analyzed: 1012

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1 AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	1143343	7.03	909576	10.77	445275	13.59
	UPPER LIMIT	2286686	7.53	1819152	11.27	890550	14.09
	LOWER LIMIT	571672	6.53	454788	10.27	222638	13.09
	EPA SAMPLE NO.						
01	VBLK6U	986212	7.03	725511	10.77	351463	13.59
02	V6ULCS	985624	7.03	790100	10.77	394770	13.59
03	AOC3CTCP8DL	897894	7.02	676037	10.77	333112	13.58
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2TB5512

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-27A

Sample wt/vol: 11.8 (g/mL) G Lab File ID: V1F1892

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 8 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	24	
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	2	U
1634-04-4	Methyl tert-butyl ether	2	U
75-34-3	1,1-Dichloroethane	2	U
78-93-3	2-Butanone	2	J
156-59-2	cis-1,2-Dichloroethene	2	U
590-20-7	2,2-Dichloropropane	2	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
109-99-9	Tetrahydrofuran	2	U
71-55-6	1,1,1-Trichloroethane	2	U
563-58-6	1,1-Dichloropropene	2	U
56-23-5	Carbon Tetrachloride	2	U
107-06-2	1,2-Dichloroethane	2	U
71-43-2	Benzene	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-pentanone	2	U
108-88-3	Toluene	2	J
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
127-18-4	Tetrachloroethene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC2TB5512

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-27A

Sample wt/vol: 11.8 (g/mL) G Lab File ID: V1F1892

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 8 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	2	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	0.6	J
----------	m,p-Xylene	2	J
95-47-6	o-Xylene	1	J
1330-20-7	Xylene (Total)	3	
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
106-43-4	4-Chlorotoluene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
99-87-6	4-Isopropyltoluene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
87-68-3	Hexachlorobutadiene	2	U
91-20-3	Naphthalene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U
544-10-5	1-Chlorohexane	2	U
107-13-1	Acrylonitrile	2	U

FORM I VOA

OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AOC2TB5512

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-27A

Sample wt/vol: 11.8 (g/mL) G Lab File ID: V1F1892

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 8 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

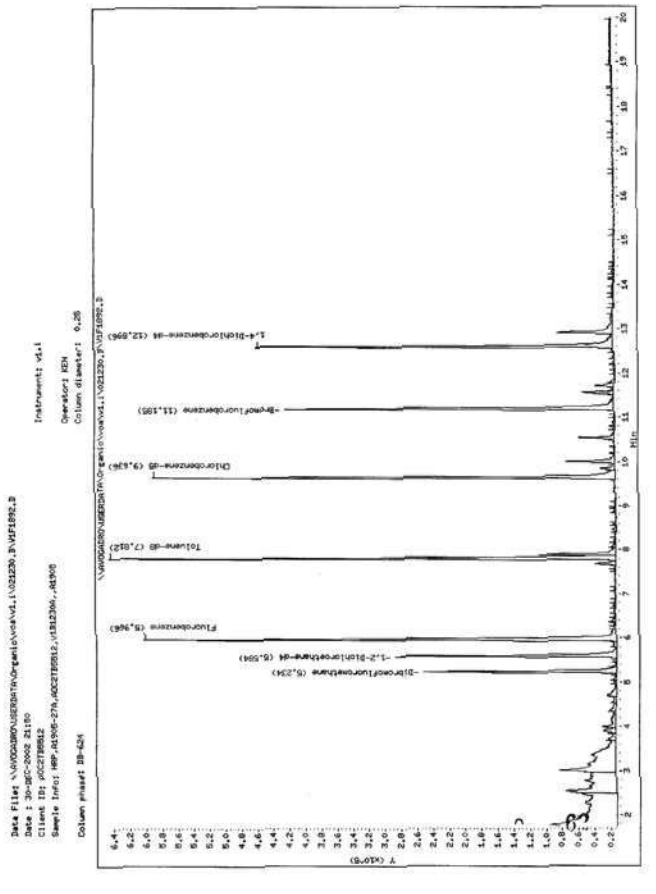
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	2.53	16	J
2.	UNKNOWN	12.91	5	J
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC

OLM03.0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1892.D
Report Date: 09-Jan-2003 16:25

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1892.D
Lab Smp Id: A1905-27A Client Smp ID: AOC2TB5512
Inj Date : 30-DEC-2002 21:50
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-27A,AOC2TB5512,V1B1230A,,A1905
Misc Info : 23-DEC-02,,,,,,,11.8
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	11.800	Weight of sample (g)
M	8.000	% Moisture (not decanted)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
	9 Acetone	43	3.006	2.998	(0.504)	103237	51.1724	24
	25 2-Butanone	43	4.767	4.748	(0.799)	14951	5.37093	2(a)
#	30 Dibromofluoromethane	113	5.234	5.225	(0.877)	186082	52.2843	24
#	35 1,2-Dichloroethane-d4	102	5.584	5.586	(0.936)	46895	55.9652	26
*	38 Fluorobenzene	96	5.965	5.957	(1.000)	640721	50.0000	
#	47 Toluene-d8	98	7.813	7.803	(0.811)	524551	49.8955	23
	48 Toluene	91	7.884	7.888	(1.322)	80408	5.38897	2(a)
*	57 Chlorobenzene-d5	117	9.634	9.638	(1.000)	415298	50.0000	
	60 Ethylbenzene	106	9.848	9.829	(1.022)	5336	1.19780	0.6(a)
	61 m,p-Xylene	106	9.997	9.999	(1.037)	26411	4.38733	2(a)
	62 o-Xylene	106	10.527	10.518	(1.092)	15825	2.70123	1(a)
#	68 Bromofluorobenzene	95	11.185	11.187	(1.161)	195441	44.0593	20
*	81 1,4-Dichlorobenzene-d4	152	12.606	12.597	(1.000)	168185	50.0000	
M	63 Xylene (Total)	106				42236	7.08857	3

1/9/03

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1892.D
Report Date: 09-Jan-2003 16:25

Mitkem Corporation

Method 8260 Water and Medium Soil

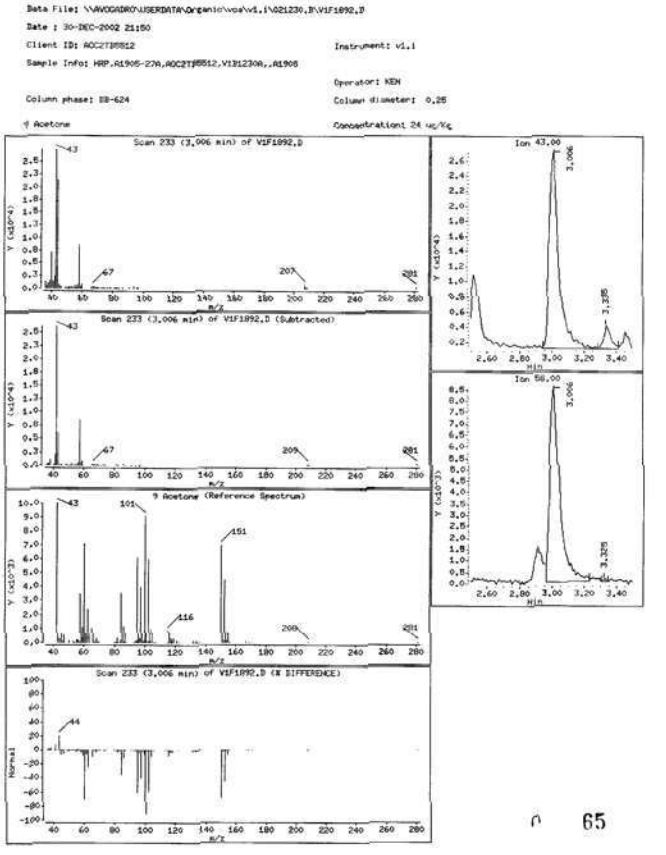
Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1892.D
Lab Smp Id: A1905-27A Client Smp ID: AOC2TB5512
Inj Date : 30-DEC-2002 21:50
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-27A,AOC2TB5512,V1B1230A,,A1905
Misc Info : 23-DEC-02,,,,,,,11.8
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

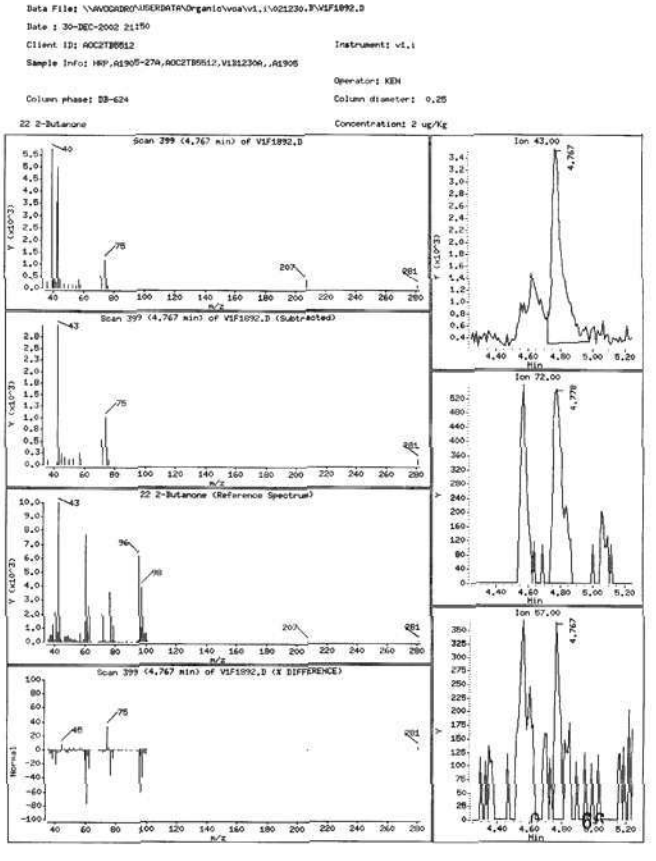
Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

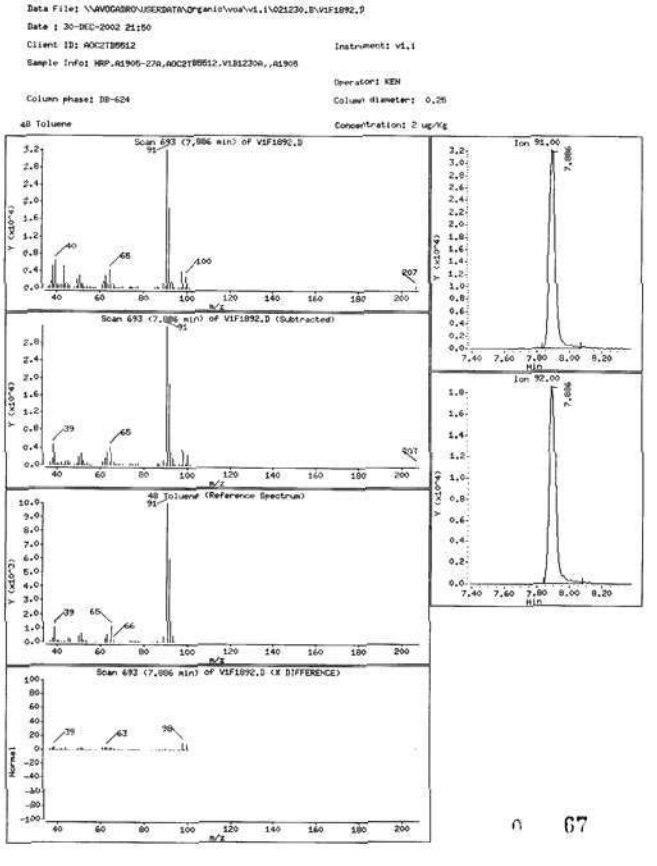
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	11.800	Weight of sample (g)
M	8.000	% Moisture (not decanted)

	ISTD	RT	AREA	AMOUNT
*	38 Fluorobenzene	5.966	1459015	50.000
*	81 1,4-Dichlorobenzene-d4	12.606	1068082	50.000

	RT	AREA	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug/Kg)	QUANT QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown	2.529	1005112	34.4448823	14	CAS #: 0		0	38
Unknown	12.914	242215	11.3387830	5	CAS #: 0		0	81







Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1892.D

Date : 30-DEC-2002 21:50

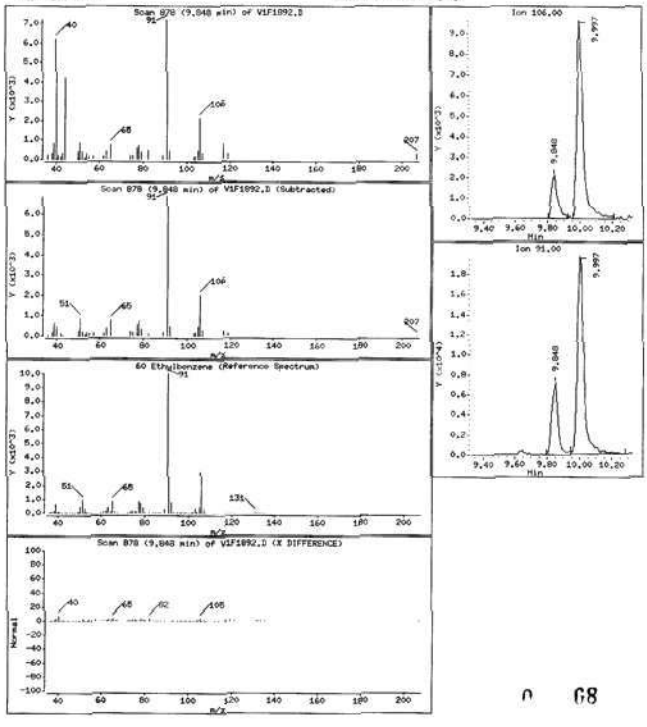
Client ID: AOC2TB5512 Instrument: v1.i

Sample Info: HRP,A1905-27A,AOC2TB5512,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

60 Ethylbenzene Concentration: 0.6 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1892.D

Date : 30-DEC-2002 21:50

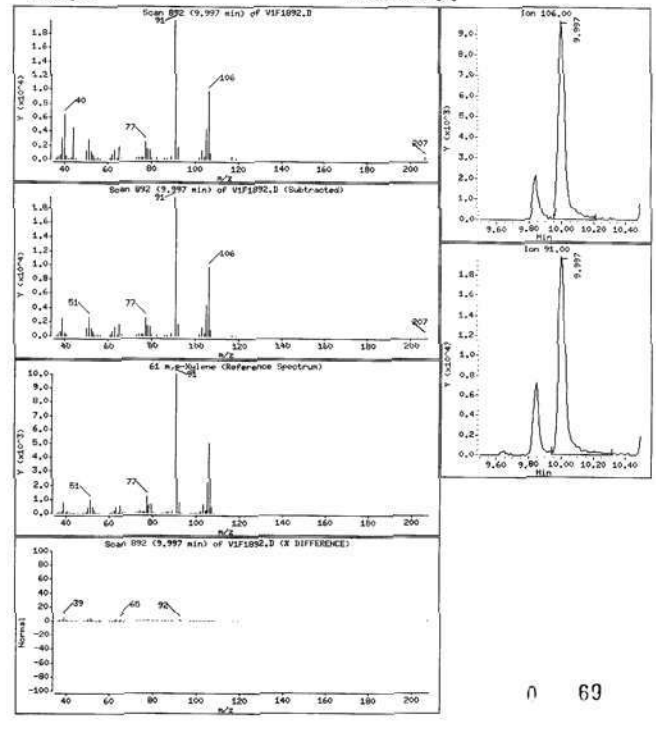
Client ID: AOC2TB5512 Instrument: v1.i

Sample Info: HRP,A1905-27A,AOC2TB5512,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

61 m,p-Xylene Concentration: 2 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1892.D

Date : 30-DEC-2002 21:50

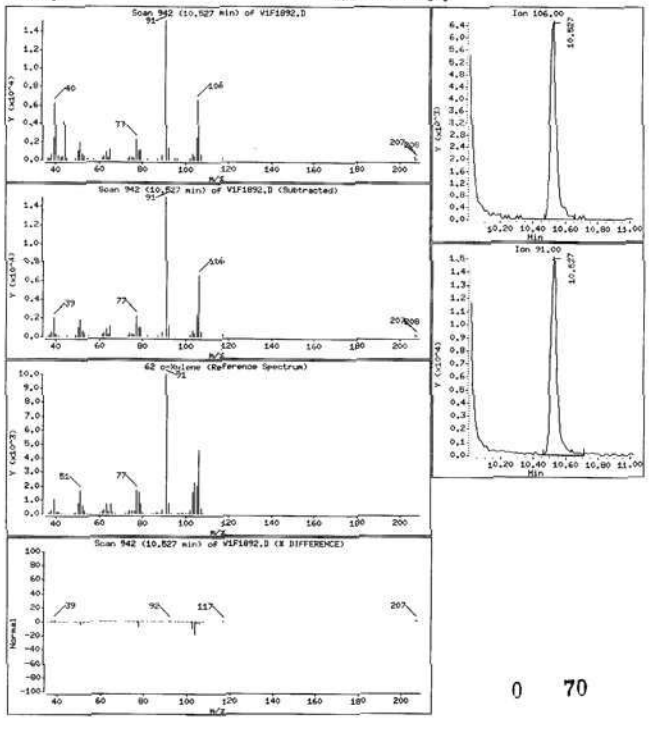
Client ID: AOC2TB5512 Instrument: v1.i

Sample Info: HRP,A1905-27A,AOC2TB5512,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

62 o-Xylene Concentration: 1 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1892.D

Date : 30-DEC-2002 21:50

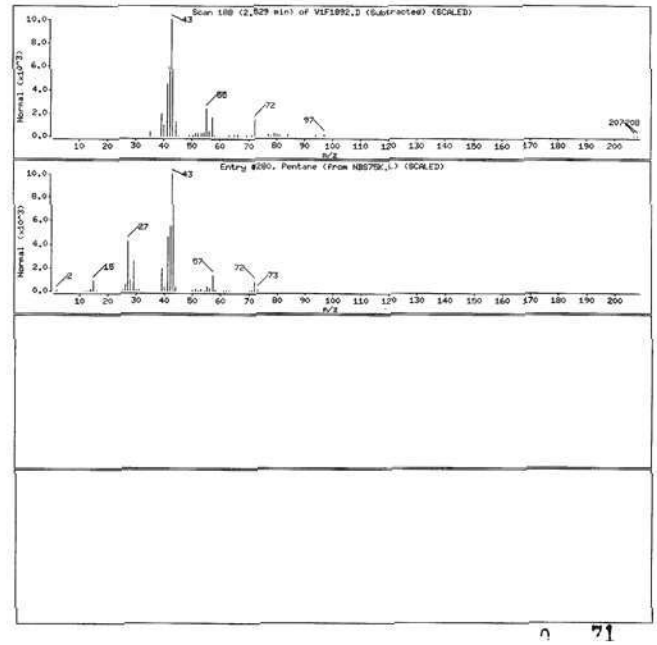
Client ID: AOC2TB5512 Instrument: v1.i

Sample Info: HRP,A1905-27A,AOC2TB5512,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Pentane	109-66-0	NBS75K.L	280	72	C5H12	72



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 21:50

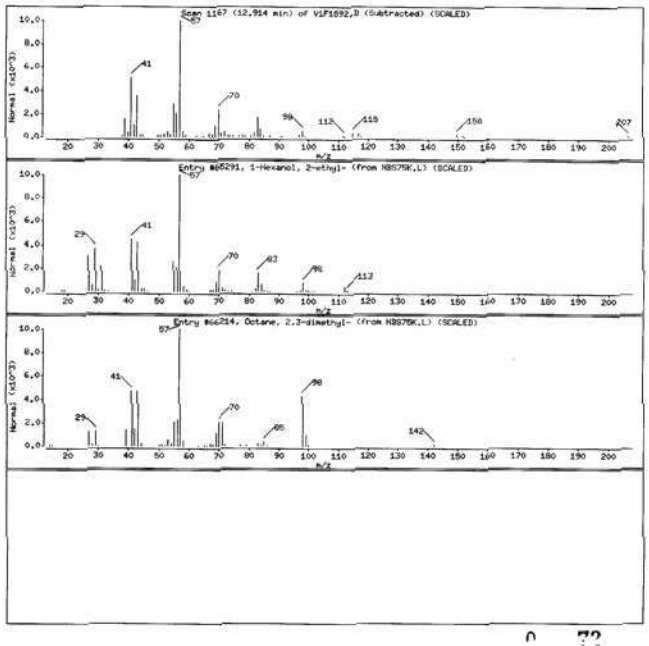
Client ID: AOC2TB5S12 Instrument: v1.i

Sample Info: MSF,01905-27A,AOC2TB5S12,V1R1230A,,A1905

Operator: KEH

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Hexanol, 2-ethyl-	104-76-7	NBS75K.L	65291	72	C8H18O	130
Octane, 2,3-dimethyl-	7146-60-3	NBS75K.L	66214	64	C10H22	142



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP6

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-01A

Sample wt/vol: 11.7 (g/mL) G Lab File ID: V1F1879

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 0 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	32	
75-09-2	Methylene Chloride	1	BJ
156-60-5	trans-1,2-Dichloroethene	2	U
1634-04-4	Methyl tert-butyl ether	2	U
75-34-3	1,1-Dichloroethane	2	U
78-93-3	2-Butanone	6	
156-59-2	cis-1,2-Dichloroethene	2	U
590-20-7	2,2-Dichloropropane	2	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
109-99-9	Tetrahydrofuran	2	U
71-55-6	1,1,1-Trichloroethane	2	U
563-58-6	1,1-Dichloropropene	2	U
56-23-5	Carbon Tetrachloride	2	U
107-06-2	1,2-Dichloroethane	2	U
71-43-2	Benzene	0.6	J
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-pentanone	6	
108-88-3	Toluene	1	J
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
127-18-4	Tetrachloroethene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP6

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-01A

Sample wt/vol: 11.7 (g/mL) G Lab File ID: V1F1879

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 0 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	2	J
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	0.8	J
	m,p-Xylene	2	J
95-47-6	o-Xylene	1	J
1330-20-7	Xylene (Total)	3	
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	6	
106-43-4	4-Chlorotoluene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	25	
135-98-8	sec-Butylbenzene	2	U
99-87-6	4-Isopropyltoluene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	J
95-50-1	1,2-Dichlorobenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	1	J
87-68-3	Hexachlorobutadiene	2	U
91-20-3	Naphthalene	4	
87-61-6	1,2,3-Trichlorobenzene	2	J
544-10-5	1-Chlorohexane	2	U
107-13-1	Acrylonitrile	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3CTCP6

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-01A

Sample wt/vol: 11.7 (g/mL) G Lab File ID: V1F1879

Level: (low/med) LOW Date Received: 12/23/02

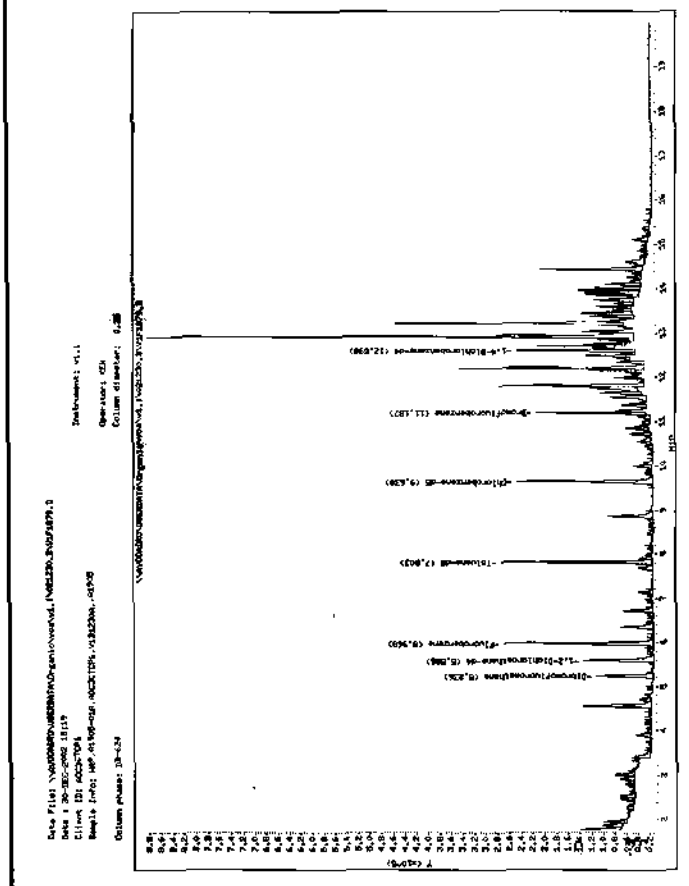
% Moisture: not dec. 0 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	115-11-7	1-PROPENE, 2-METHYL-	1.76	7	NJ
2.		UNKNOWN	1.95	4	J
3.		UNKNOWN	4.55	11	J
4.		UNKNOWN	6.34	6	J
5.		UNKNOWN	6.70	4	J
6.	66-25-1	HEXANAL	8.85	9	NJ
7.		UNKNOWN	10.73	4	J
8.		UNKNOWN	11.36	6	J
9.		UNKNOWN	11.56	10	J
10.	620-14-4	BENZENE, 1-ETHYL-3-METHYL-	11.64	9	NJ
11.		STRAIGHT-CHAIN ALKANE	11.80	29	J
12.		UNKNOWN	11.99	6	J
13.		BRANCHED ALKANE	12.16	8	J
14.		UNKNOWN	12.34	6	J
15.		UNKNOWN	12.49	7	J
16.	526-73-8	BENZENE, 1,2,3-TRIMETHYL-	12.69	11	NJ
17.		UNKNOWN	12.75	7	J
18.		UNKNOWN	12.91	92	J
19.		UNKNOWN	13.02	6	J
20.		STRAIGHT-CHAIN ALKANE	13.21	41	J
21.	527-84-4	BENZENE, 1-METHYL-2-(1-METHY	13.39	11	NJ
22.		UNKNOWN	13.45	14	J
23.		UNKNOWN	13.60	6	J
24.	2958-76-1	NAPHTHALENE, DECAHYDRO-2-MET	13.75	9	NJ
25.		UNKNOWN	13.87	10	J
26.		UNKNOWN	13.91	13	J
27.		UNKNOWN	13.98	12	J
28.		UNKNOWN	14.11	6	J
29.		UNKNOWN	14.43	20	J
30.		UNKNOWN	14.60	8	J



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D
Report Date: 09-Jan-2003 16:24

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D
Lab Smp Id: A1905-01A Client Smp ID: AOC3CTCP6
Inj Date : 30-DEC-2002 15:19
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-01A,AOC3CTCP6,V1B1230A,,A1905
Misc Info : 23-DEC-02,,,,,,,
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	11.700	Weight of sample (g)
M	0.000	% Moisture (not decanted)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
	3 Acetone	43	3.009	2.998	(0.504)	48787	76.9375	52
	14 Methylene Chloride	84	3.422	3.411	(0.573)	6861	1.32427	1(a)
	22 2-Butanone	43	4.959	4.746	(0.795)	29114	15.1071	6
S	30 Dibromofluoromethane	113	5.234	5.226	(0.876)	79897	49.3389	21
S	35 1,2-Dichloroethane-d4	102	5.584	5.586	(0.936)	18268	50.5541	22
	37 Benzene	78	5.656	5.646	(0.947)	58043	1.45033	0.6(a)
*	38 Fluorobenzene	96	5.968	5.957	(1.000)	691219	50.0000	
	44 4-Methyl-2-pentanone	43	7.478	7.466	(1.255)	31976	13.3262	6
S	47 Toluene-d8	98	7.603	7.603	(1.010)	231375	50.8188	22
	48 Toluene	91	7.666	7.666	(1.322)	17278	3.84770	1(a)
	54 2-Hexanone	43	8.727	8.715	(1.906)	8242	1.72979	1(a)
*	57 Chlorobenzene-d5	117	9.638	9.638	(1.060)	179218	50.0000	
	60 Ethylbenzene	106	9.852	9.832	(1.022)	3404	1.93156	0.8(a)
	61 m,p-Xylene	106	9.999	9.999	(2.037)	12857	4.82788	2(a0)
	62 o-Xylene	106	10.518	10.518	(2.091)	6309	1.38166	1(a0)

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D
Report Date: 09-Jan-2003 16:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
S	66 Bromofluorobenzene	95	11.187	11.187	(1.161)	88613	42.5856	18
	74 1,3,5-Trimethylbenzene	105	11.749	11.749	(0.933)	61933	14.7128	6
	75 1,2,4-Trimethylbenzene	105	12.195	12.194	(0.968)	204683	48.0989	21
*	81 1,4-Dichlorobenzene-d4	152	12.598	12.598	(1.000)	405041	50.0000	
	83 n-Butylbenzene	91	13.066	13.054	(1.037)	53841	9.60097	3(a0)
N	65 Xylene (Total)	106				19166	7.29084	3
	87 1,2,4-Trichlorobenzene	180	14.846	14.846	(1.180)	3855	1.88113	1(a)
	89 Naphthalene	128	15.121	15.121	(1.200)	12494	3.77922	1
	90 1,2,3-Trichlorobenzene	180	15.377	15.388	(1.221)	9146	4.01445	2(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

1/9/03

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D
Report Date: 09-Jan-2003 16:24

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D
Lab Smp Id: A1905-01A Client Smp ID: AOC3CTCP6
Inj Date : 30-DEC-2002 15:19
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-01A,AOC3CTCP6,V1B1230A,,A1905
Misc Info : 23-DEC-02,,,,,,,
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	11.700	Weight of sample (g)
M	0.000	% Moisture (not decanted)

ISTD	RT	AREA	AMOUNT
* 38 Fluorobenzene	5.968	691723	50.000
* 57 Chlorobenzene-d5	9.638	581130	50.000
* 81 1,4-Dichlorobenzene-d4	12.598	405041	50.000

		CONCENTRATIONS		QUANT			
RT	AREA	ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CAS #
1-Propene, 2-methyl-							Cas #: 115-11-7
1.757	216744	19.6693964	?	90	NBS75K.L	62306	39

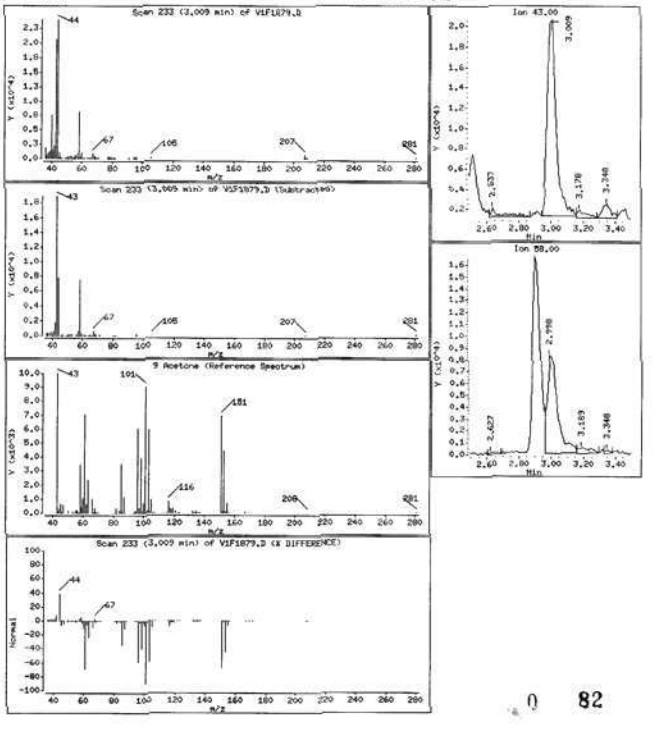
Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D
Report Date: 09-Jan-2003 16:24

RT	AREA	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
1.852	116138	8.41290527	4	0		0	38
Unknown				CAS #:			
1.948	115014	8.31359795	4	0		0	38
Unknown				CAS #:			
4.547	359140	25.9538134	11	0		0	38
Unknown				CAS #:			
6.339	181485	13.1327858	6	0		0	38
Unknown				CAS #:			
6.700	134682	9.73525530	4	0		0	38
Hexanal				CAS #:	66-25-1		
8.853	235809	20.2888338	9	90	MBS75K.L	1573	57
Unknown				CAS #:			
10.731	116053	9.98511521	4	0		0	57
Unknown				CAS #:			
11.357	112227	13.8537827	6	0		0	81
Unknown				CAS #:			
11.558	200764	24.7831701	10	0		0	81
Benzene, 1-ethyl-3-methyl-				CAS #:	620-14-4		
11.643	177068	21.8580741	9	94	MBS75K.L	64563	81
Straight-chain Alkane				CAS #:			
11.802	548147	67.4187304	29	0		0	81
Unknown				CAS #:			
11.993	107640	13.2875427	6	0		0	81
Branched Alkane				CAS #:			
12.163	154941	19.1265822	8	0		0	81
Unknown				CAS #:			
12.343	112649	13.9058962	6	0		0	81
Unknown				CAS #:			
12.492	119184	17.1814705	7	0		0	81

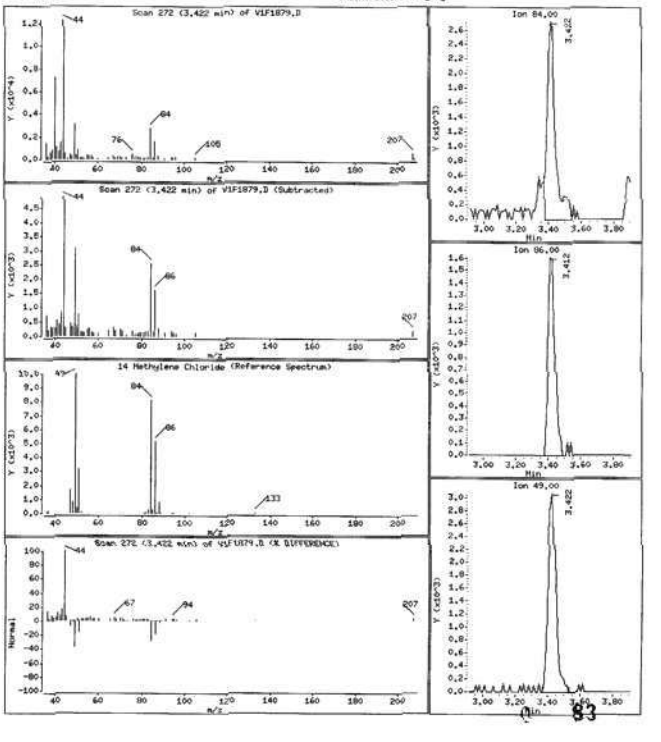
Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D
Report Date: 09-Jan-2003 16:24

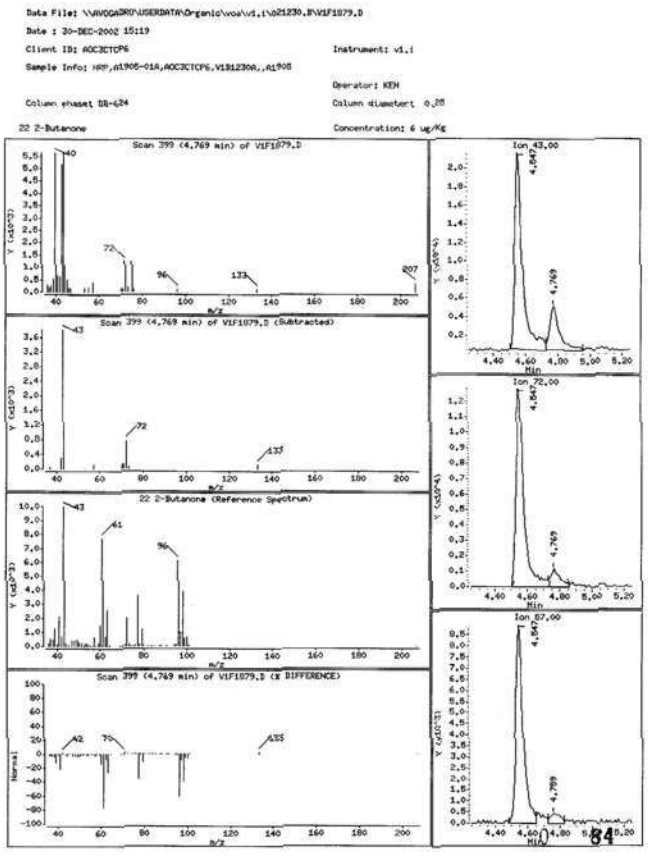
RT	AREA	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Benzene, 1,2,3-trimethyl-				CAS #:	526-73-8		
12.693	203730	25.1493059	11	95	MBS75K.L	64572	81
Unknown				CAS #:			
12.746	138073	17.0443239	7	0		0	81
Unknown				CAS #:			
12.904	1791041	316.156019	92	0		0	81
Unknown				CAS #:			
13.022	113715	14.0376678	6	0		0	81
Straight-chain Alkane				CAS #:			
13.213	780268	96.3196318	41	0		0	81
Benzene, 1-methyl-2-(1-methylethyl)-				CAS #:	527-84-4		
13.593	207996	25.6676517	11	97	MBS75K.L	85585	81
Unknown				CAS #:			
13.447	262085	32.3524976	14	0		0	81
Unknown				CAS #:			
13.595	117446	14.4980385	6	0		0	81
Naphthalene, decahydro-2-methyl-				CAS #:	2958-76-1		
13.754	170025	20.9886160	9	86	MBS75K.L	67009	81
Unknown				CAS #:			
13.871	184527	22.7788051	10	0		0	81
Unknown				CAS #:			
13.913	239133	29.5196042	13	0		0	81
Unknown				CAS #:			
13.977	234522	28.9504026	12	0		0	81
Unknown				CAS #:			
14.115	123618	15.2599366	6	0		0	81
Unknown				CAS #:			
14.433	380960	47.0273380	20	0		0	81
Unknown				CAS #:			
14.603	168219	18.2967897	8	0		0	81

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D
Date : 30-DEC-2002 15:19
Client ID: AOC3CTCP6 Instrument: v1.i
Sample Info: HRP,A1908-01A,AOC3CTCP6,V1B1230A,,A1908
Operator: KEN
Column phase: DB-624 Column diameter: 0.25
9 Acetone Concentration: 32 ug/Kg

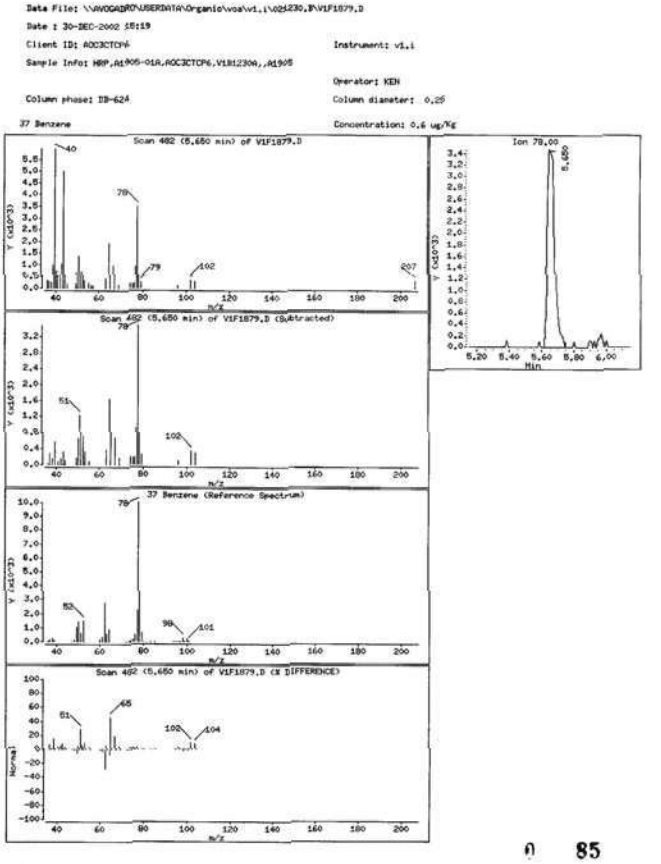


Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D
Date : 30-DEC-2002 15:19
Client ID: AOC3CTCP6 Instrument: v1.i
Sample Info: HRP,A1908-01A,AOC3CTCP6,V1B1230A,,A1908
Operator: KEN
Column phase: DB-624 Column diameter: 0.25
14 Methylene Chloride Concentration: 1 ug/Kg

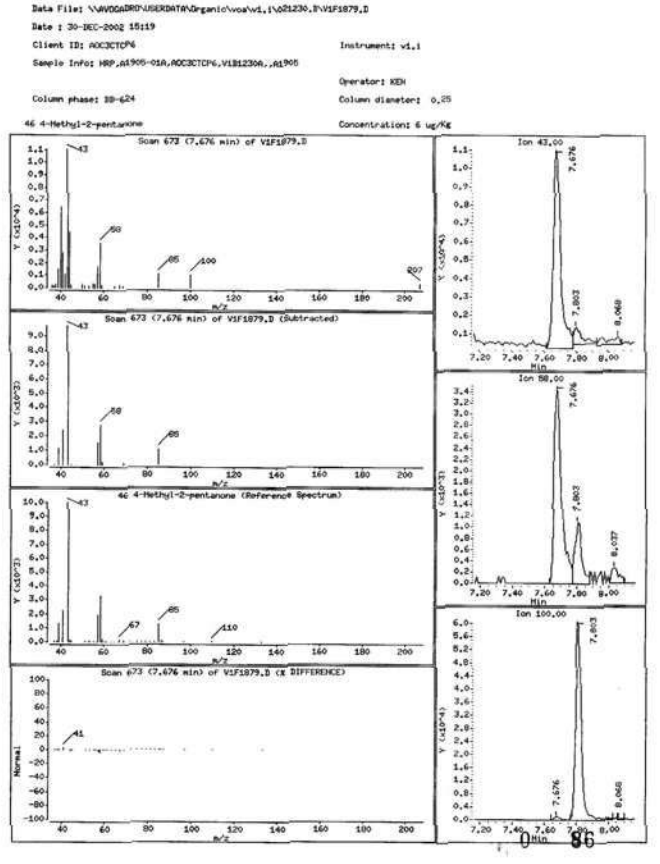




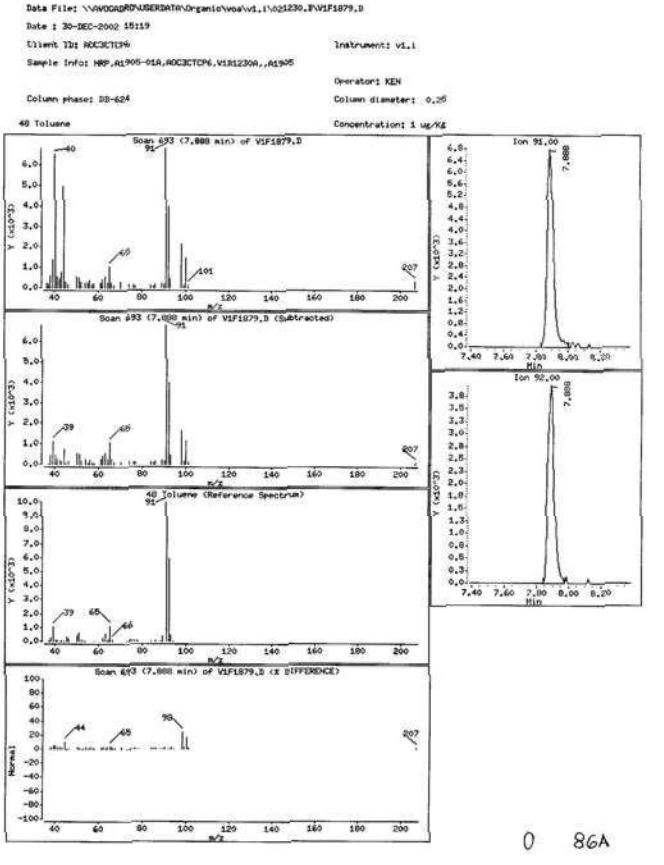
84



0 85



0 86



0 86A

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

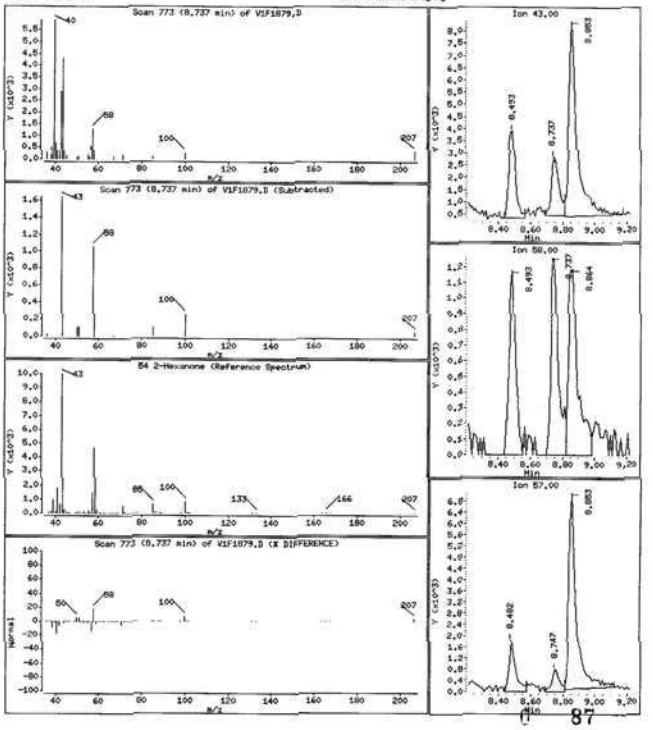
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

54 2-Hexanone Concentration: 2 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

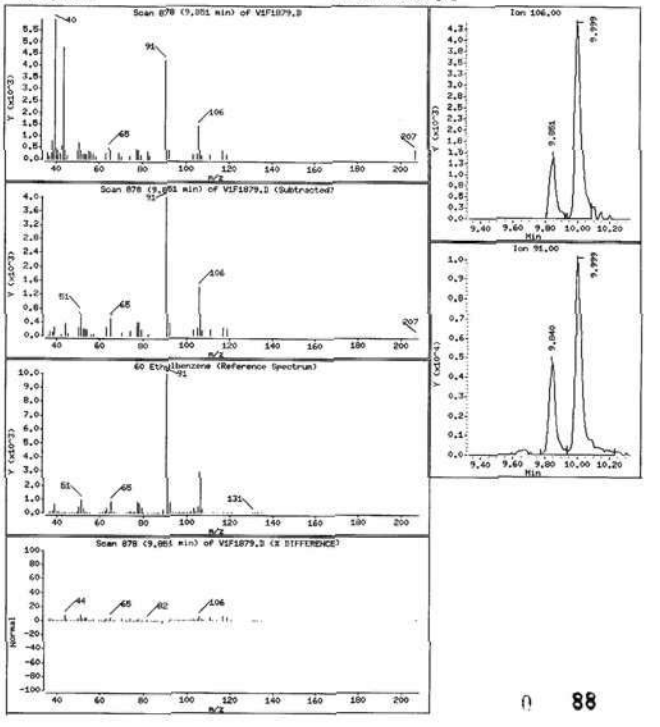
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

60 Ethylbenzene Concentration: 0.8 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

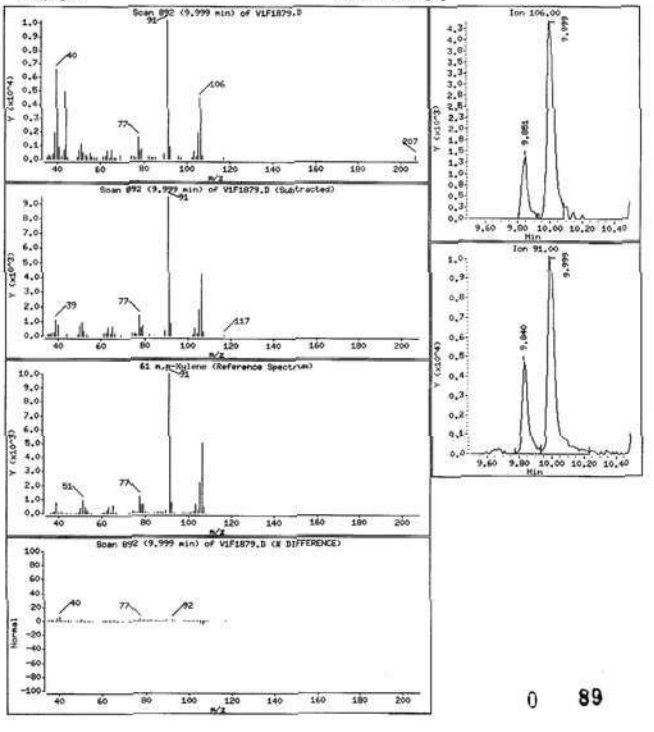
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

61 m,p-Xylene Concentration: 2 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

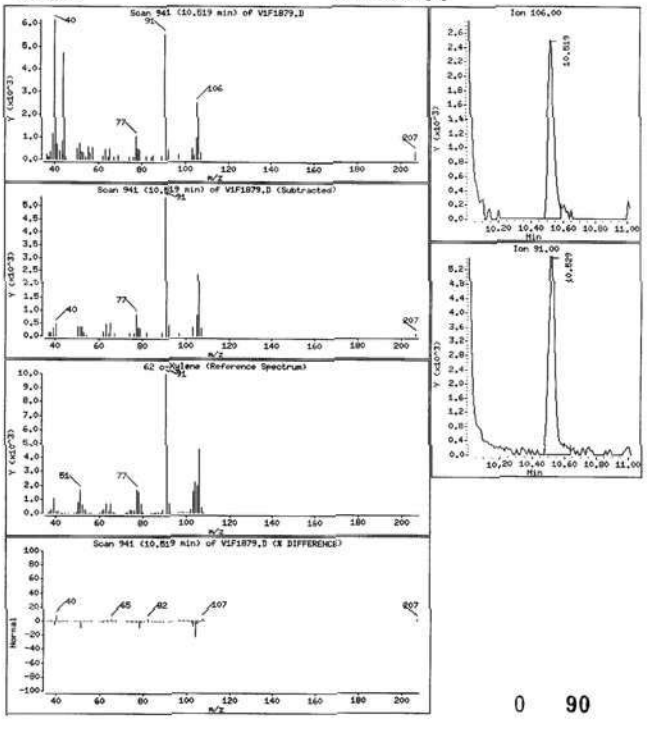
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

62 o-Xylene Concentration: 1 ug/Kg



Data File: \\AVOCADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

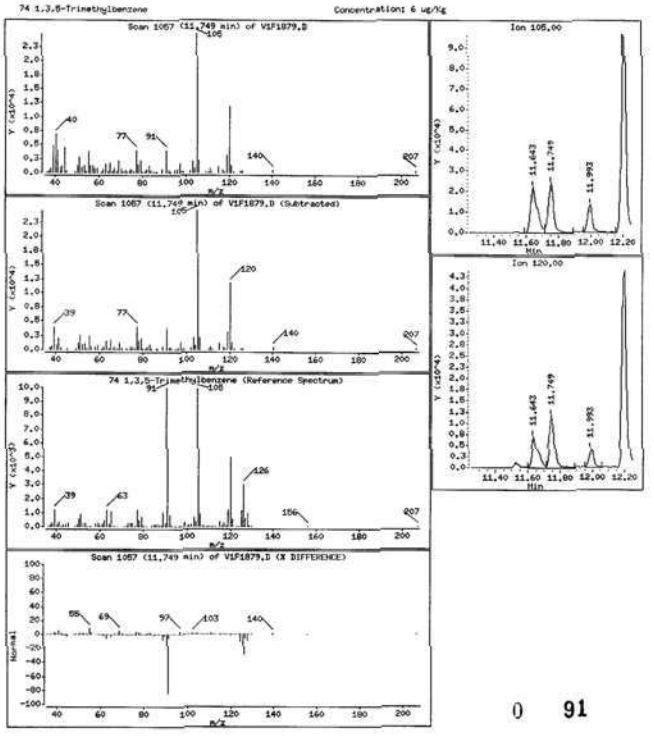
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

74 1,3,5-Trimethylbenzene Concentration: 6 ug/Kg



Data File: \\AVOCADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

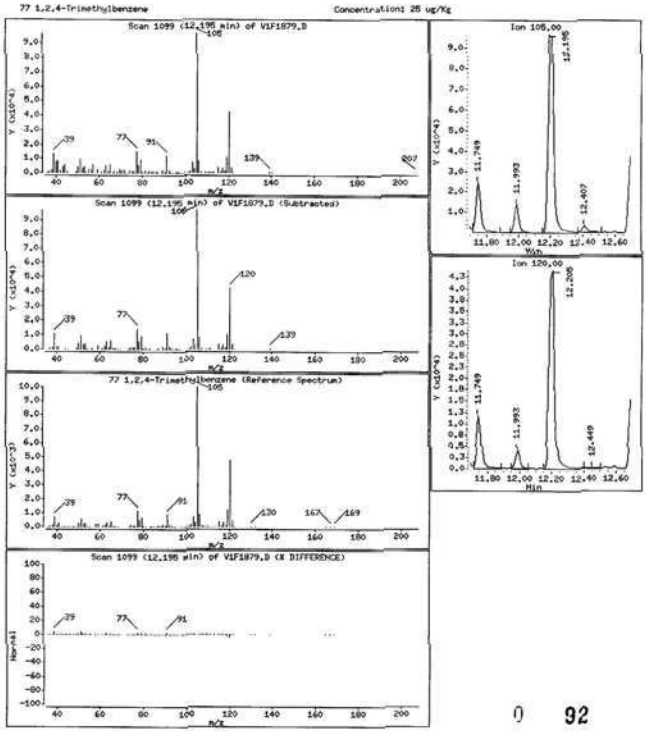
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

77 1,2,4-Trimethylbenzene Concentration: 25 ug/Kg



Data File: \\AVOCADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

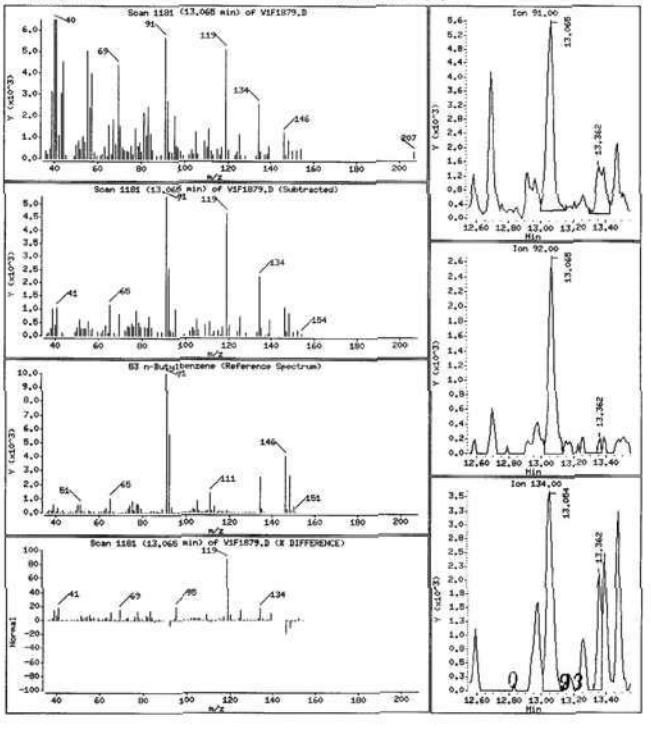
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

83 n-Butylbenzene Concentration: 2 ug/Kg



Data File: \\AVOCADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

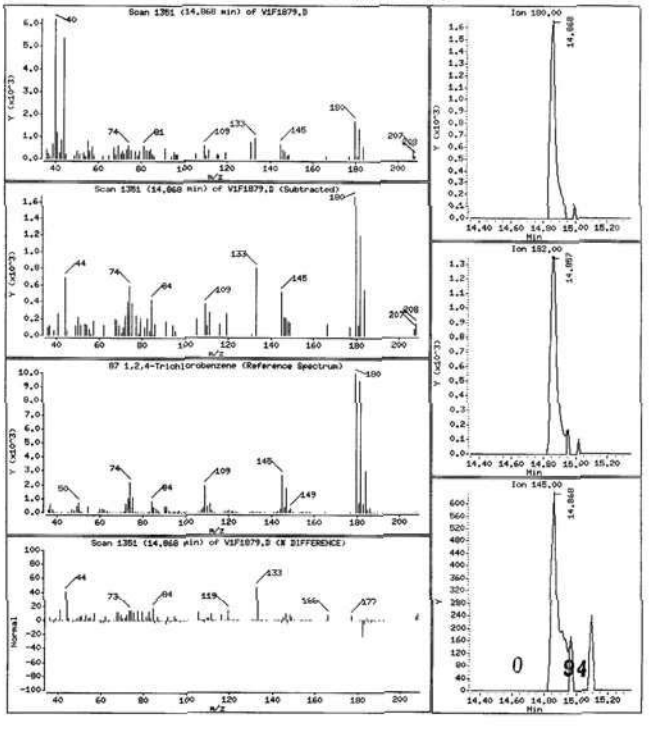
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

87 1,2,4-Trichlorobenzene Concentration: 1 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

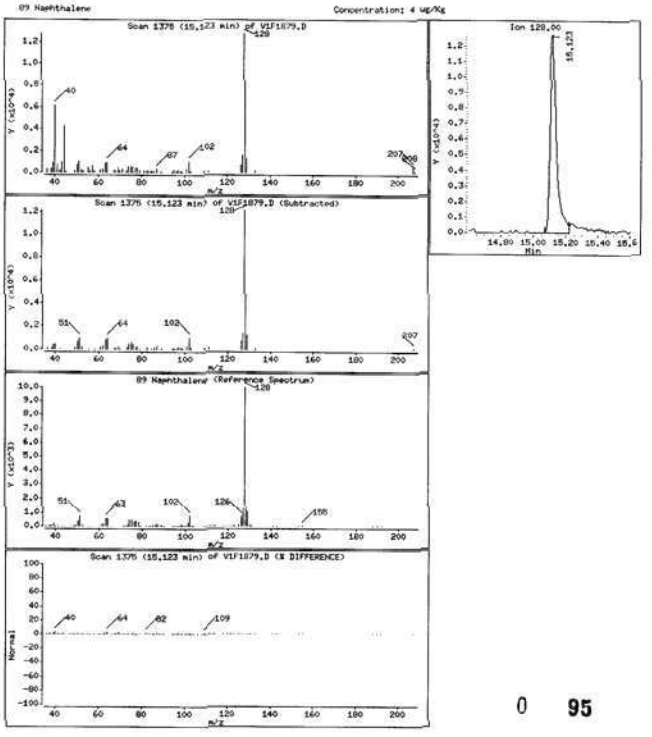
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

89 Naphthalene Concentration: 4 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

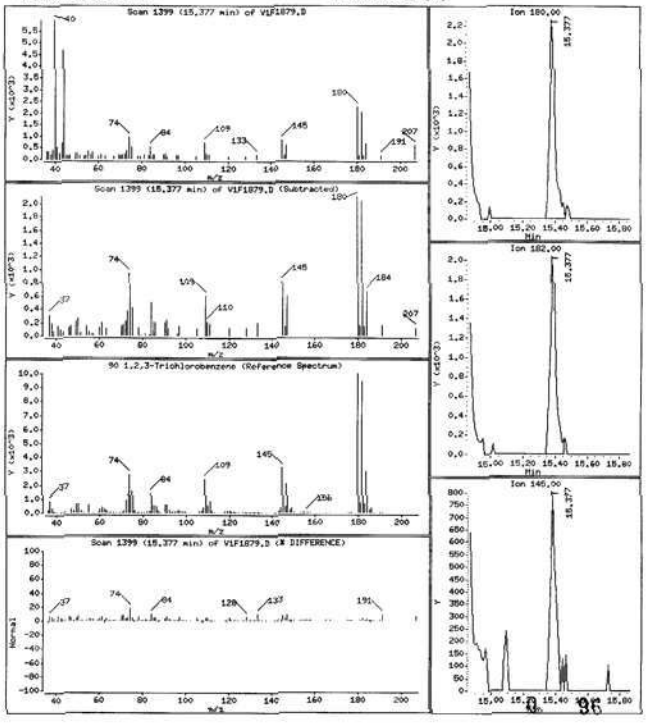
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

90 1,2,3-Trichlorobenzene Concentration: 2 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

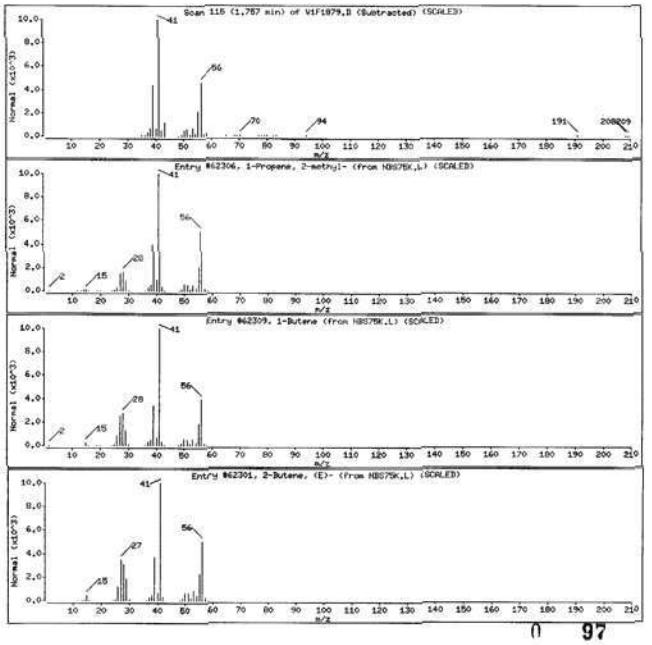
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Propene, 2-methyl-	115-11-7	NBS75K.L	62306	90	C4H8	56
1-Butene	106-98-9	NBS75K.L	62309	87	C4H8	56
2-Butene, (E)-	624-64-6	NBS75K.L	62301	80	C4H8	56



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

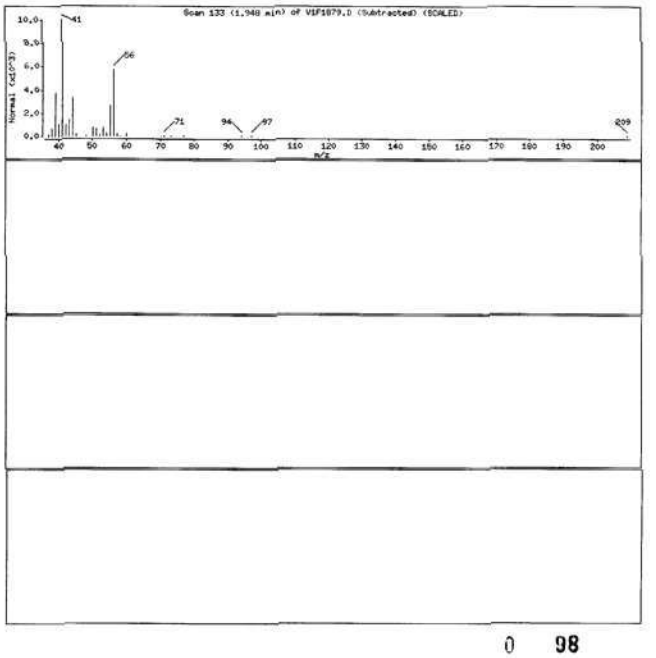
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

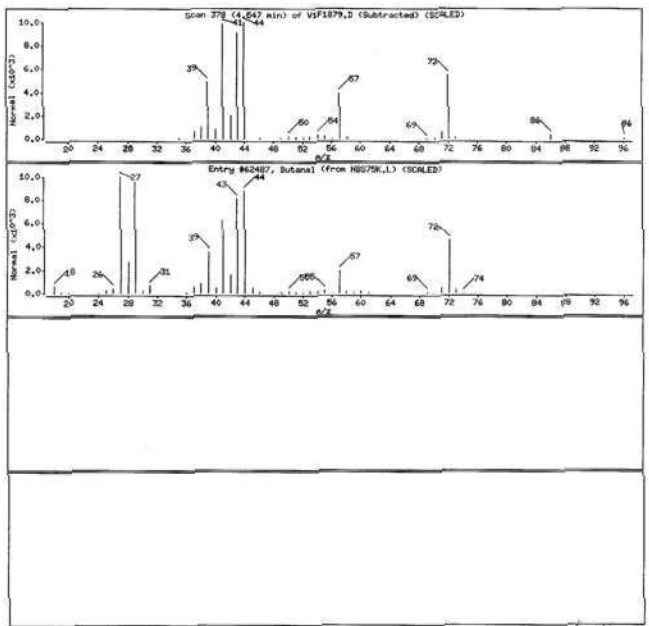
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1906-01A,AOC3CTCP6,V1B1230A,,A1906

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Butanal	123-72-8	NBS75K.L	62487	72	C4H8O	72



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

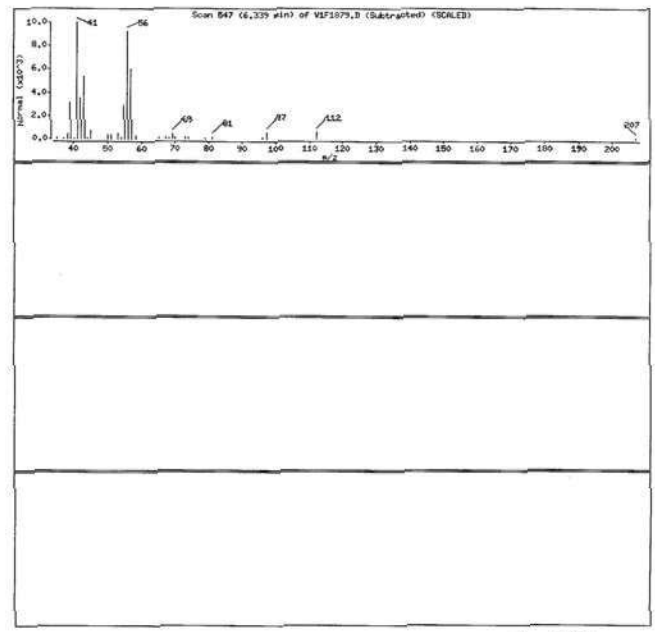
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1906-01A,AOC3CTCP6,V1B1230A,,A1906

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

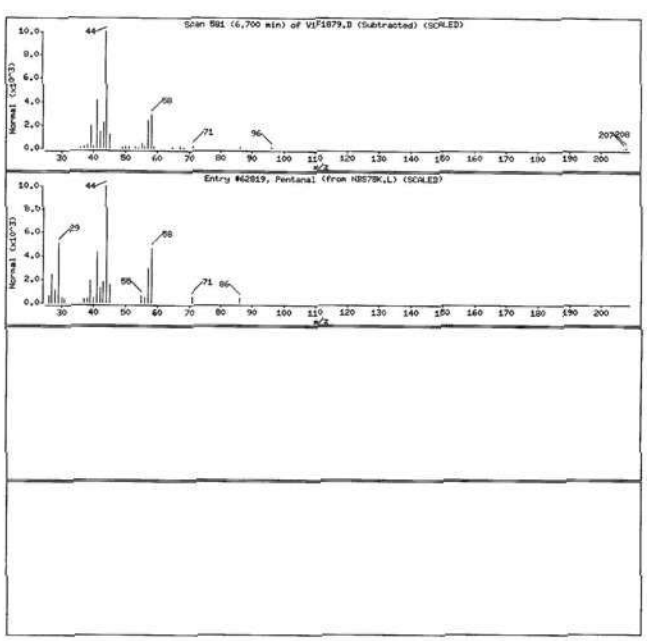
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1906-01A,AOC3CTCP6,V1B1230A,,A1906

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Pentanal	110-62-3	NBS75K.L	62819	78	C5H10O	86



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

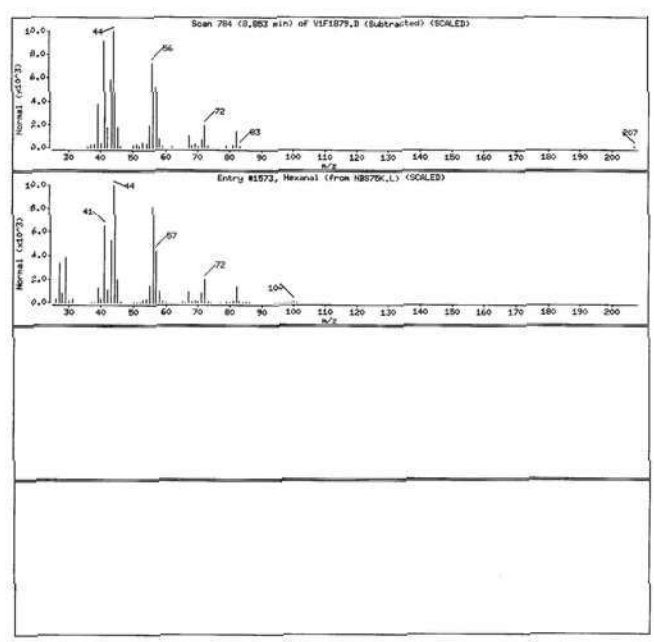
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1906-01A,AOC3CTCP6,V1B1230A,,A1906

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Hexanal	66-25-1	NBS75K.L	1573	90	C6H12O	100



Data File: \\AVOGADRO\USERDATA\Organic\woa\w1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

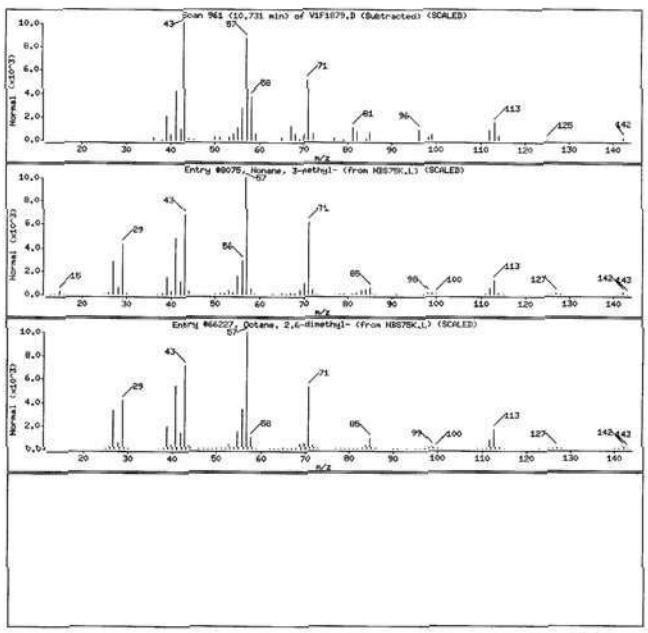
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1312304,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Nonane, 3-methyl-	5911-04-6	NBS75K.L	8075	68	C10H22	142
Octane, 2,6-dimethyl-	2051-30-1	NBS75K.L	66227	68	C10H22	142



Data File: \\AVOGADRO\USERDATA\Organic\woa\w1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

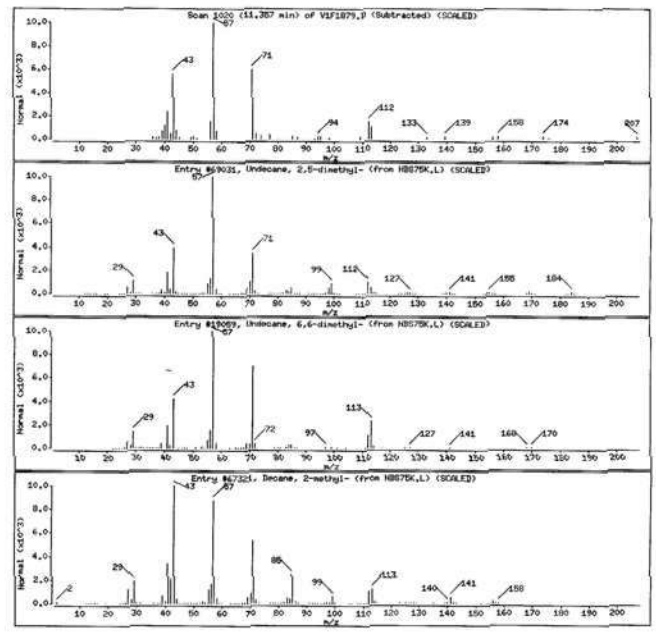
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1312304,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Undecane, 2,5-dimethyl-	17301-22-3	NBS75K.L	69031	78	C13H28	184
Undecane, 6,6-dimethyl-	17312-76-4	NBS75K.L	19069	72	C13H28	184
Decane, 2-methyl-	6975-98-0	NBS75K.L	67321	72	C11H24	156



Data File: \\AVOGADRO\USERDATA\Organic\woa\w1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

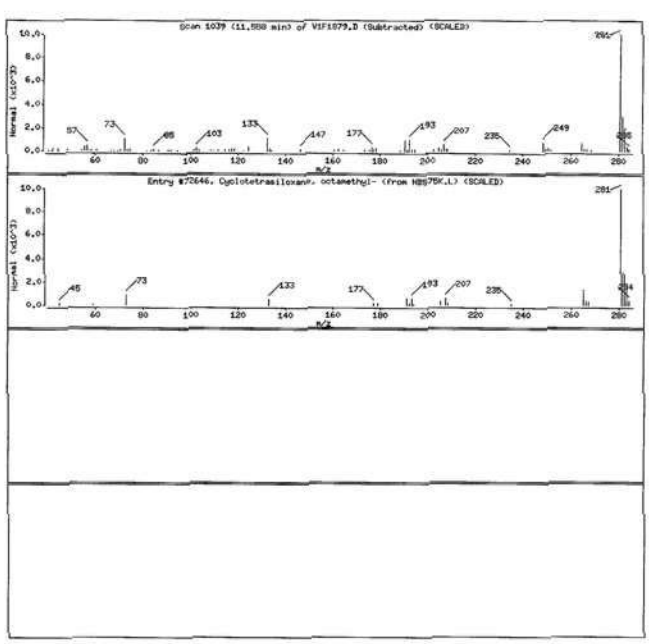
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1312304,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS75K.L	72646	64	C8H24O4Si4	296



Data File: \\AVOGADRO\USERDATA\Organic\woa\w1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

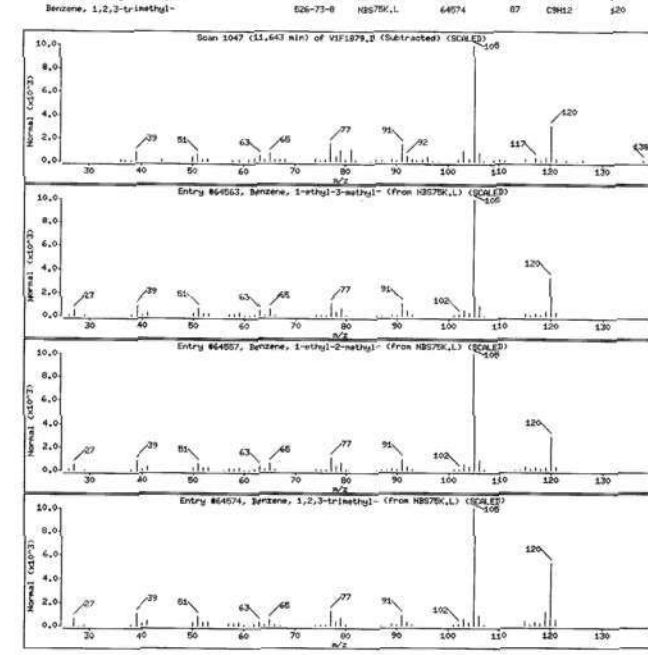
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1312304,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-ethyl-3-methyl-	620-14-4	NBS75K.L	64563	94	C9H12	120
Benzene, 1-ethyl-2-methyl-	611-14-3	NBS75K.L	64557	94	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.L	64574	87	C9H12	120



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.1\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

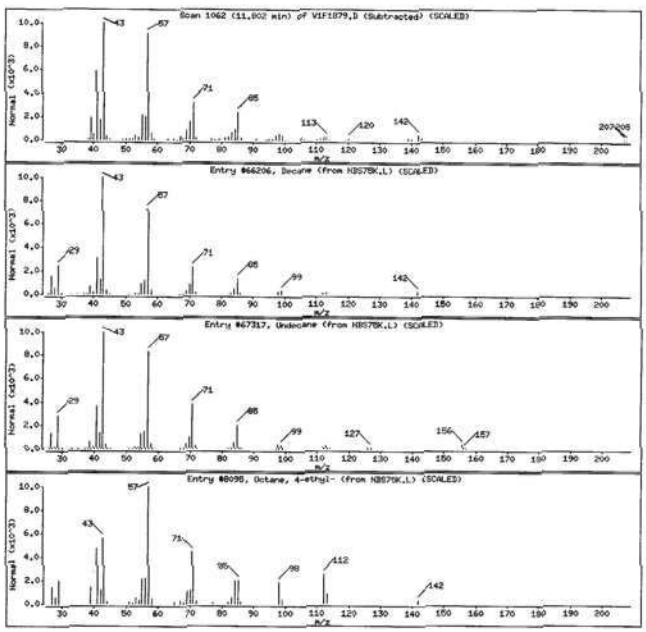
Client ID: AOC3CTCP6 Instrument: v1.1

Sample Info: HRP,A1906-01A,AOC3CTCP6,V1B12306,,A1906

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Decane	124-18-5	NBS75K.L	66206	91	C10H22	142
Undecane	1120-21-4	NBS75K.L	67317	72	C11H24	156
Octane, 4-ethyl-	15869-86-0	NBS75K.L	8098	64	C10H22	142



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.1\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

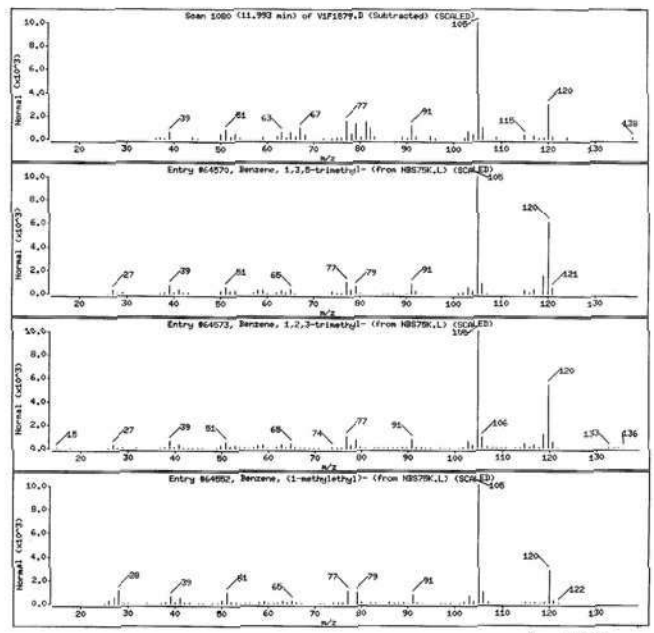
Client ID: AOC3CTCP6 Instrument: v1.1

Sample Info: HRP,A1906-01A,AOC3CTCP6,V1B12306,,A1906

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzene, 1,3,5-trimethyl-	108-67-8	NBS75K.L	64570	81	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.L	64573	81	C9H12	120
Benzene, (1-methylethyl)-	98-82-8	NBS75K.L	64852	81	C9H12	120



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.1\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

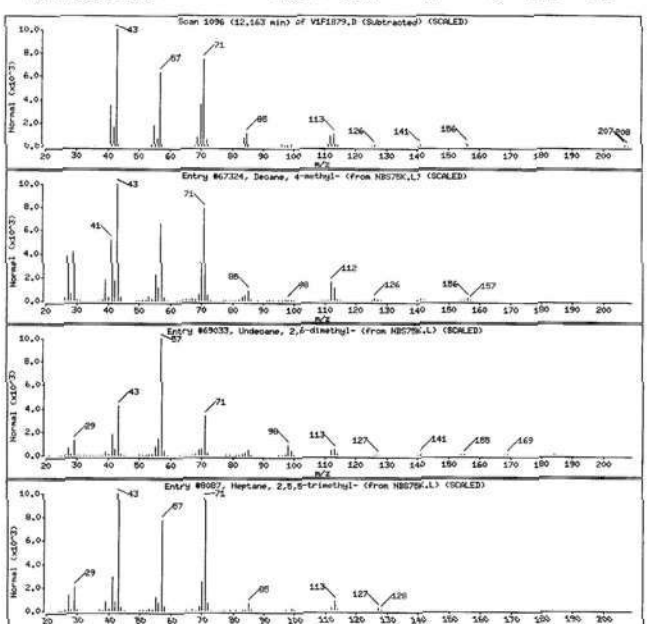
Client ID: AOC3CTCP6 Instrument: v1.1

Sample Info: HRP,A1906-01A,AOC3CTCP6,V1B12306,,A1906

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
Decane, 4-methyl-	2847-72-5	NBS75K.L	67324	91	C11H24	156
Undecane, 2,6-dimethyl-	17301-23-4	NBS75K.L	69033	72	C13H28	184
Heptane, 2,5,5-trimethyl-	1189-99-7	NBS75K.L	8087	72	C10H22	142



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.1\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

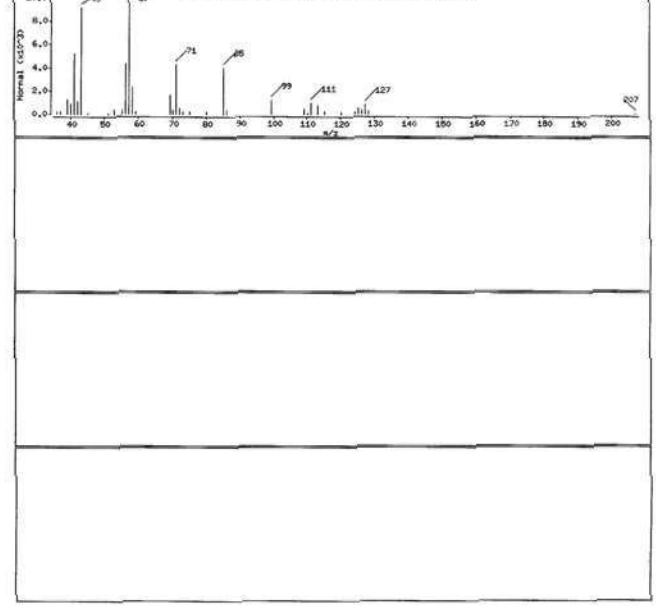
Client ID: AOC3CTCP6 Instrument: v1.1

Sample Info: HRP,A1906-01A,AOC3CTCP6,V1B12306,,A1906

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

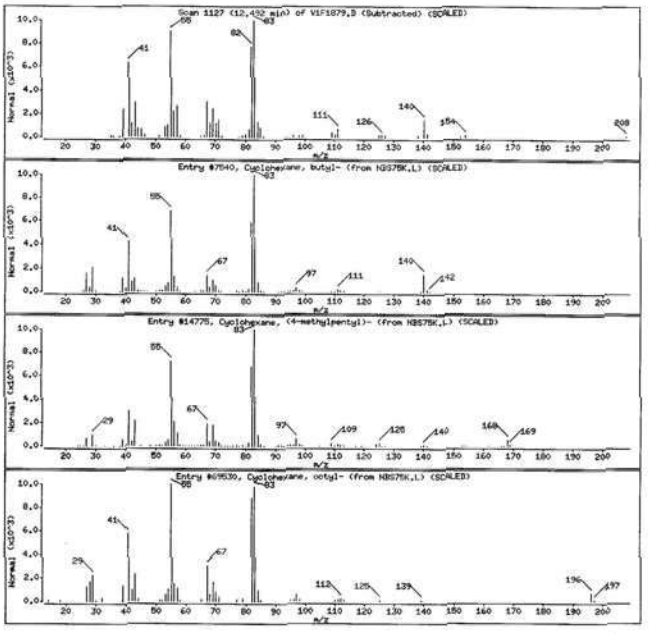
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexane, butyl-	1678-93-9	NBS75K.L	7540	80	C10H20	140
Cyclohexane, (4-methylpentyl)-	61142-20-9	NBS75K.L	14775	78	C12H24	168
Cyclohexane, octyl-	1795-15-9	NBS75K.L	69530	72	C14H28	196



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

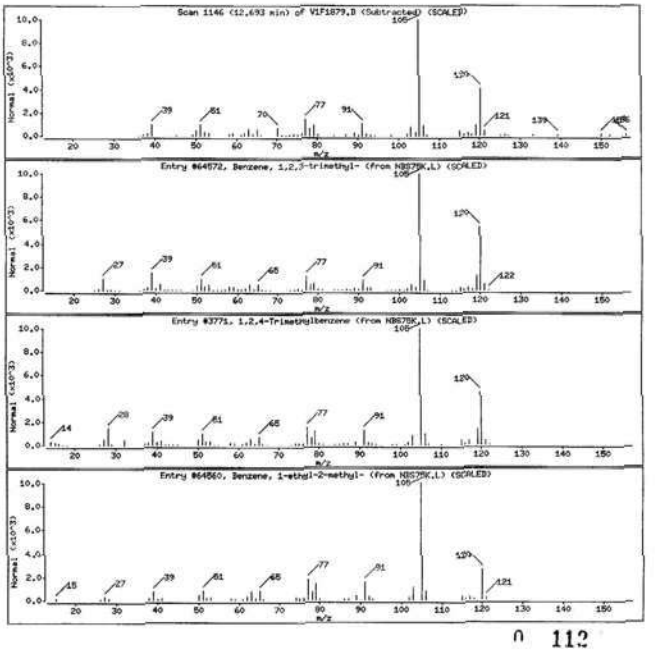
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.L	64572	96	C9H12	120
1,2,4-Trimethylbenzene	95-36-3	NBS75K.L	3771	94	C9H12	120
Benzene, 1-ethyl-2-methyl-	611-14-3	NBS75K.L	64560	94	C9H12	120



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

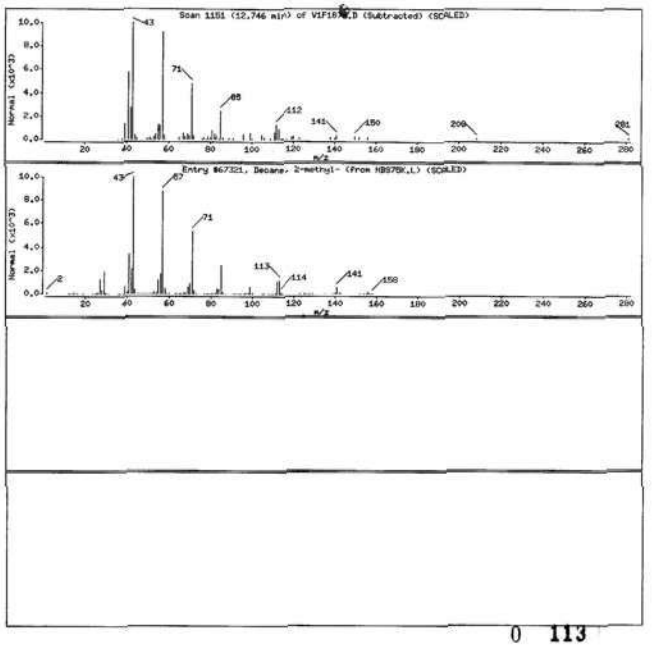
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Decane, 2-methyl-	6975-98-0	NBS75K.L	67321	80	C11H24	156



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

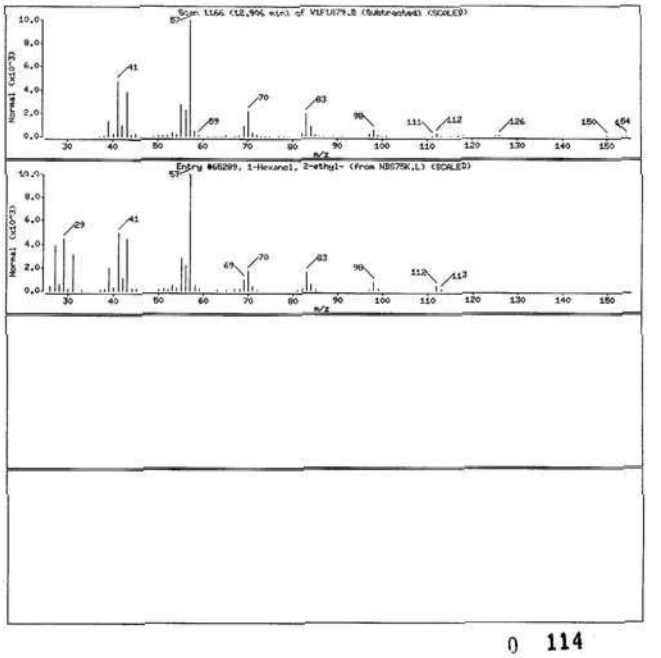
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Hexanol, 2-ethyl-	104-76-7	NBS75K.L	65289	83	C8H18O	130



Data File: \\AVOCADRO\USERDATA\Organic\woa\w1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

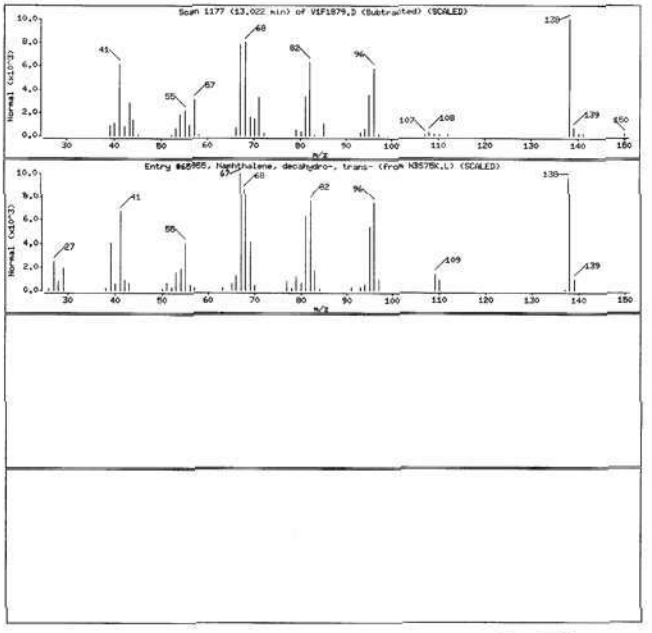
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Naphthalene, decahydro-, trans-	493-02-7	NBS75K.L	68986	80	C10H18	138



Data File: \\AVOCADRO\USERDATA\Organic\woa\w1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

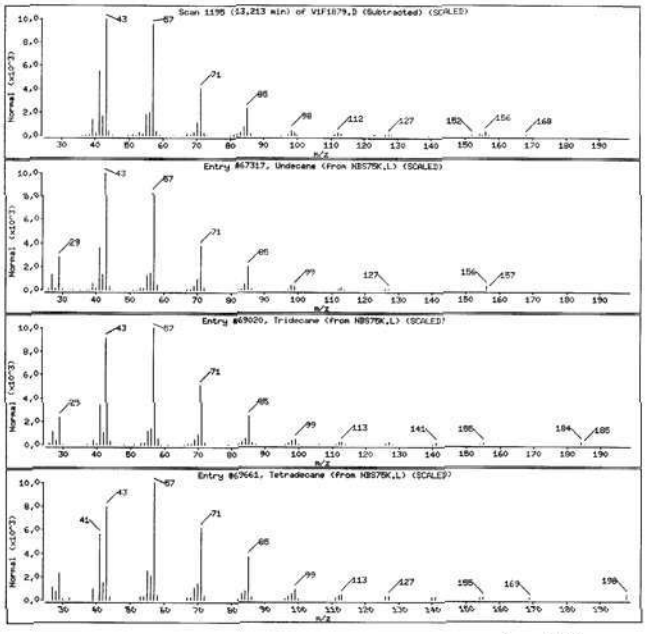
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Undecane	1120-21-4	NBS75K.L	67317	96	C11H24	156
Tridecane	629-50-5	NBS75K.L	69020	78	C13H28	184
Tetradecane	629-59-4	NBS75K.L	69661	78	C14H30	198



Data File: \\AVOCADRO\USERDATA\Organic\woa\w1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

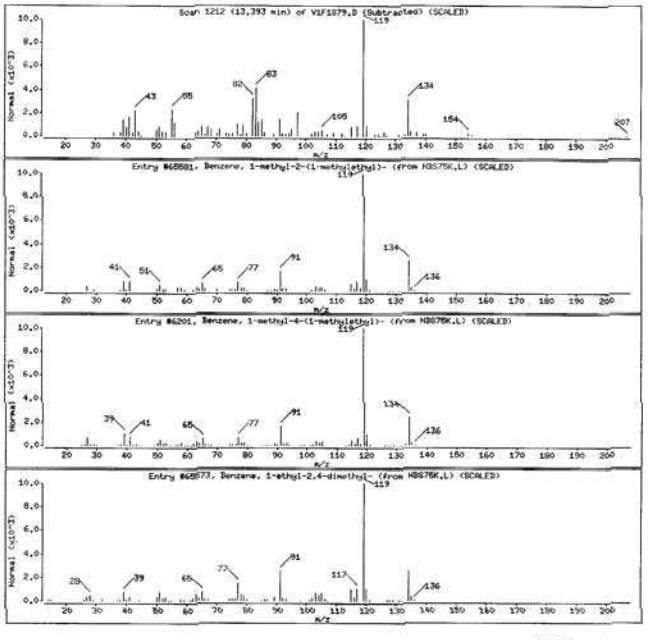
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	NBS75K.L	65581	87	C10H14	134
Benzene, 1-methyl-4-(1-methylethyl)-	99-87-6	NBS75K.L	6201	87	C10H14	134
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	NBS75K.L	65573	87	C10H14	134



Data File: \\AVOCADRO\USERDATA\Organic\woa\w1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

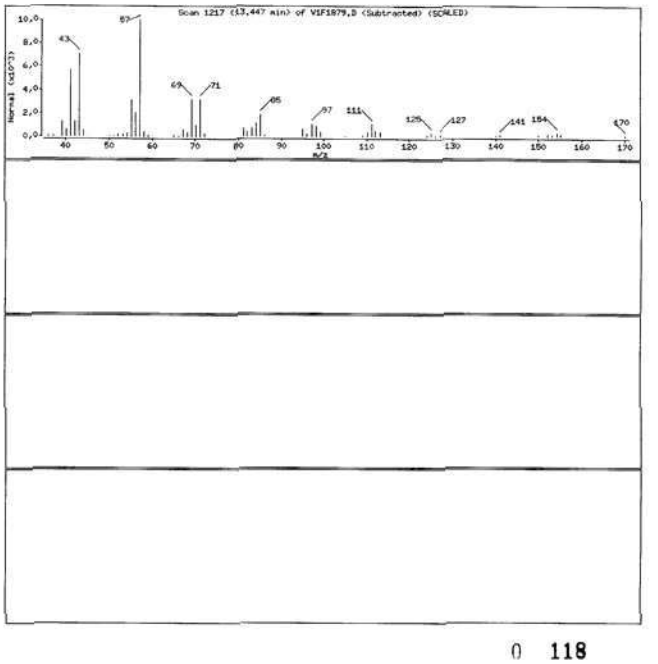
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

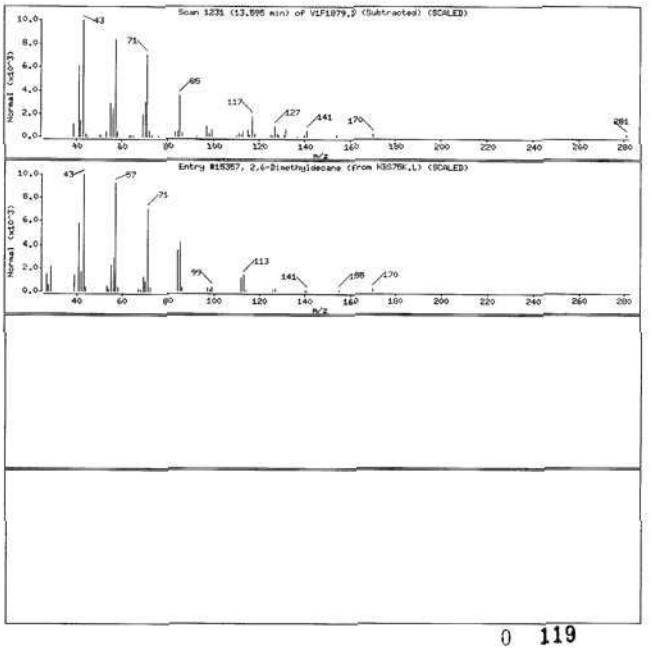
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B12304,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2,6-Dimethyldecane	13150-81-7	NBS75K.L	15357	68	C12H26	170



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

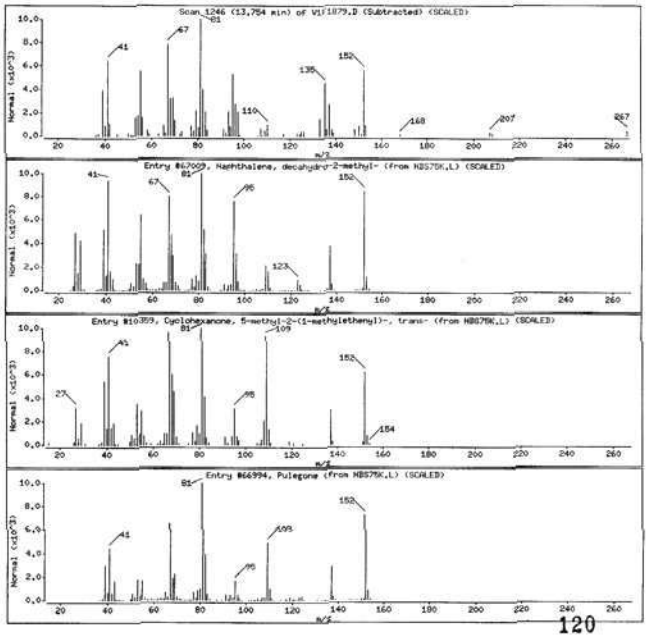
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B12304,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, decahydro-2-methyl-	2958-76-1	NBS75K.L	67009	86	C11H20	152
Cyclohexanone, 5-methyl-2-(1-methylethen	29606-79-9	NBS75K.L	10359	62	C10H16O	152
Pulegone	89-82-7	NBS75K.L	66994	60	C10H16O	152



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

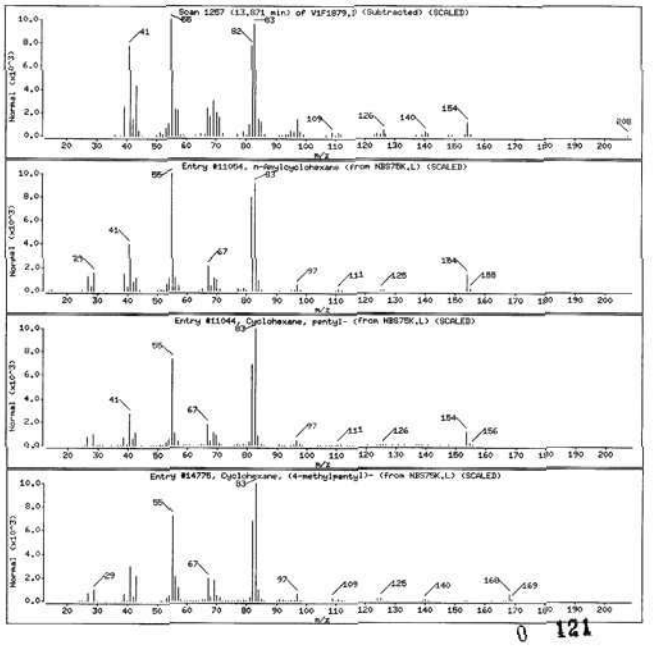
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B12304,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
n-Amylcyclohexane	29949-27-7	NBS75K.L	11054	83	C11H22	154
Cyclohexane, pentyl-	4292-92-6	NBS75K.L	11044	80	C11H22	154
Cyclohexane, (4-methylpentyl)-	61142-20-9	NBS75K.L	14775	64	C12H24	168



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

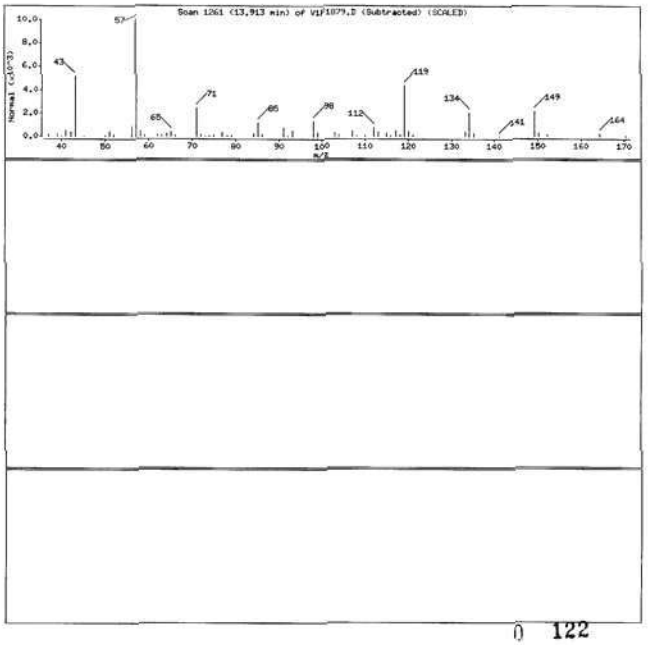
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B12304,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\woa\w1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

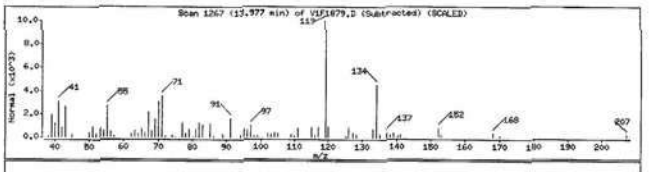
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B12304,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\woa\w1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

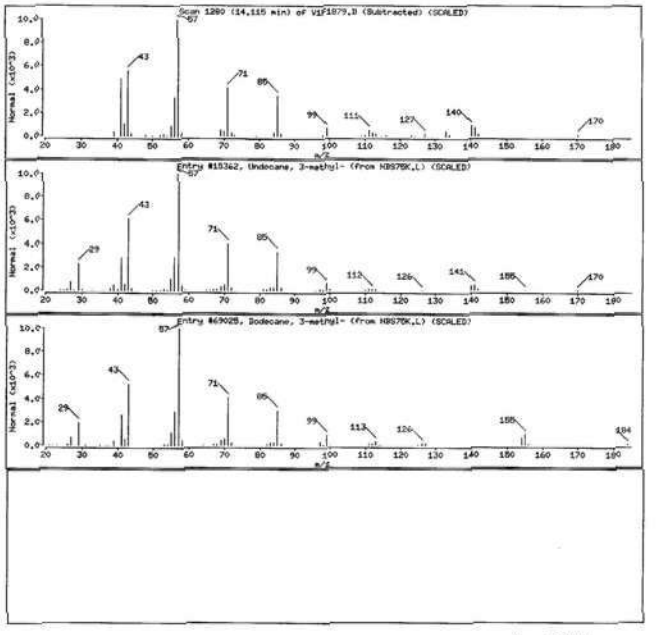
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B12304,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Undecane, 3-methyl-	1002-43-3	NIST75K.L	15362	72	C12H26	170
Dodecane, 3-methyl-	17312-57-1	NIST75K.L	69025	64	C13H28	184



Data File: \\AVOGADRO\USERDATA\Organic\woa\w1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

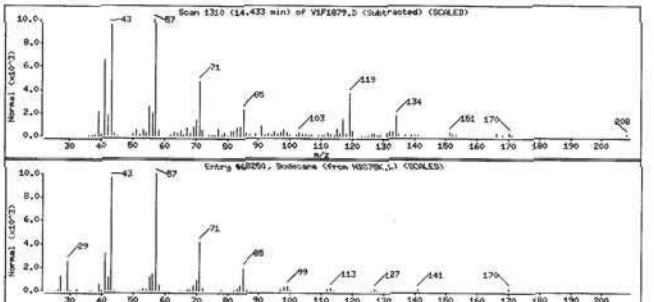
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B12304,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Dodecane	112-40-3	NIST75K.L	68250	64	C12H26	170



Data File: \\AVOGADRO\USERDATA\Organic\woa\w1.i\021230.B\V1F1879.D

Date : 30-DEC-2002 15:19

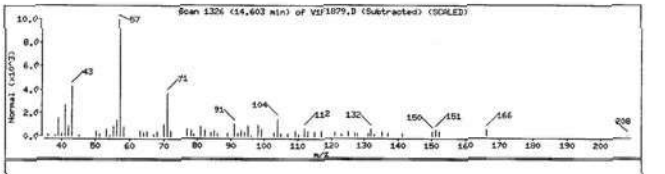
Client ID: AOC3CTCP6 Instrument: v1.i

Sample Info: HRP,A1905-01A,AOC3CTCP6,V1B12304,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Unknown			0	0		0



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP6RE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-01ARE
Sample wt/vol: 18.7 (g/mL) G Lab File ID: V1F1891
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 0 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	20	
75-09-2	Methylene Chloride	3	B
156-60-5	trans-1,2-Dichloroethene	1	U
1634-04-4	Methyl tert-butyl ether	1	U
75-34-3	1,1-Dichloroethane	1	U
78-93-3	2-Butanone	6	
156-59-2	cis-1,2-Dichloroethene	1	U
590-20-7	2,2-Dichloropropane	1	U
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	1	U
109-99-9	Tetrahydrofuran	1	U
71-55-6	1,1,1-Trichloroethane	1	U
563-58-6	1,1-Dichloropropene	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	0.5	J
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	2	
108-88-3	Toluene	1	J
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
142-28-9	1,3-Dichloropropane	1	U
127-18-4	Tetrachloroethene	1	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP6RE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-01ARE
Sample wt/vol: 18.7 (g/mL) G Lab File ID: V1F1891
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 0 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	0.8	J
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	0.3	J
	m,p-Xylene	1	J
95-47-6	o-Xylene	0.9	J
1330-20-7	Xylene (Total)	2	
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-86-1	Bromobenzene	1	U
96-18-4	1,2,3-Trichloropropane	1	U
103-65-1	n-Propylbenzene	1	U
95-49-8	2-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	6	
106-43-4	4-Chlorotoluene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	28	
135-98-8	sec-Butylbenzene	1	U
99-87-6	4-Isopropyltoluene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
104-51-8	n-Butylbenzene	1	J
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	2	
87-61-6	1,2,3-Trichlorobenzene	1	U
544-10-5	1-Chlorohexane	1	U
107-13-1	Acrylonitrile	1	U

FORM I VOA OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

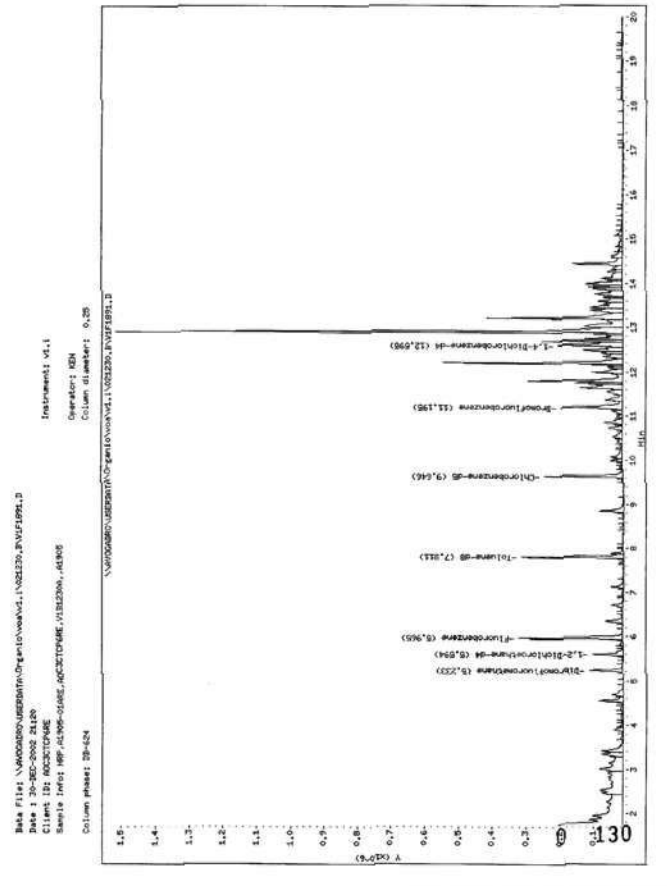
EPA SAMPLE NO.
AOC3CTCP6RE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-01ARE
Sample wt/vol: 18.7 (g/mL) G Lab File ID: V1F1891
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 0 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	1.75	46	J
2.	UNKNOWN	2.53	23	J
3.	UNKNOWN	3.33	4	J
4.	UNKNOWN	4.55	4	J
5.	UNKNOWN	6.34	3	J
6. 66-25-1	HEXANAL	8.85	6	NJ
7.	UNKNOWN	10.84	4	J
8.	UNKNOWN	11.36	5	J
9. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	11.56	5	NJ
10. 611-14-3	BENZENE, 1-ETHYL-2-METHYL-	11.64	12	NJ
11.	STRAIGHT-CHAIN ALKANE	11.80	15	J
12. 611-14-3	BENZENE, 1-ETHYL-2-METHYL-	11.99	6	NJ
13.	BRANCHED ALKANE	12.16	4	J
14.	UNKNOWN	12.34	5	J
15.	UNKNOWN	12.49	9	J
16. 95-36-3	1,2,4-TRIMETHYLBENZENE	12.70	11	NJ
17.	UNKNOWN	12.74	8	J
18.	UNKNOWN	12.91	66	J
19. 493-02-7	NAPHTHALENE, DECAHYDRO-, TRA	13.02	15	NJ
20.	STRAIGHT-CHAIN ALKANE	13.22	24	J
21. 99-87-6	BENZENE, 1-METHYL-4-(1-METHY	13.39	8	NJ
22.	UNKNOWN	13.45	11	J
23.	UNKNOWN	13.59	6	J
24. 2958-76-1	NAPHTHALENE, DECAHYDRO-2-MET	13.76	8	NJ
25.	CYCLIC ALKANE	13.87	5	J
26. 934-80-5	BENZENE, 4-ETHYL-1,2-DIMETHY	13.92	6	NJ
27.	UNKNOWN	13.97	8	J
28.	UNKNOWN	14.11	6	J
29.	STRAIGHT-CHAIN ALKANE	14.44	9	J
30.	UNKNOWN	14.61	4	J

FORM I VOA-TIC OLM03.0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1891.D
Report Date: 09-Jan-2003 16:24

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1891.D
Lab Smp Id: A1905-01ARE Client Smp ID: AOC3CTCP6RE
Inj Date : 30-DEC-2002 21:20
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-01ARE,AOC3CTCP6RE,V1B1230A,,A1905
Misc Info : 23-DEC-02,,,,,,,18.7
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	18.700	Weight of sample (g)
M	0.000	% Moisture (not decanted)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
	9 Acetone	43	2.995	2.998	(0.502)	78948	74.4398	20
	14 Methylene Chloride	84	3.419	3.411	(0.573)	32561	10.5615	3
	22 2-Butanone	43	4.766	4.748	(0.799)	34727	23.7306	6
$	30 Dibromofluoromethane	113	5.231	5.225	(0.877)	76699	40.9940	11
$	35 1,2-Dichloroethane-d4	102	5.594	5.586	(0.938)	13692	31.0829	8
	37 Benzene	78	5.657	5.649	(0.948)	14104	1.75751	0.5(a)
*	38 Fluorobenzene	96	5.965	5.957	(1.000)	336826	50.0000	
	46 4-Methyl-2-pentanone	43	7.684	7.665	(1.288)	18074	6.51212	2
$	47 Toluene-d8	98	7.811	7.803	(0.810)	253504	54.5261	14
	48 Toluene	91	7.885	7.888	(1.322)	30659	3.90866	1(a)
	54 2-Hexanone	43	8.744	8.715	(0.907)	4524	3.09674	0.8(aQ)
*	57 Chlorobenzene-d5	117	9.646	9.638	(1.000)	379979	50.0000	
	60 Ethylbenzene	106	9.837	9.829	(1.020)	2185	1.11173	0.3(aQ)
	61 m,p-Xylene	106	9.996	9.999	(1.036)	14143	5.42082	1(a)
	62 o-Xylene	106	10.526	10.518	(1.091)	8983	3.53816	0.9(a)

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1891.D
Report Date: 09-Jan-2003 16:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
$	68 Bromofluorobenzene	95	11.184	11.187	(1.159)	78384	40.7743	11
	74 1,3,5-Trimethylbenzene	105	11.746	11.749	(0.932)	73688	24.1541	6
	77 1,2,4-Trimethylbenzene	105	12.202	12.194	(0.968)	317189	104.161	28
*	81 1,4-Dichlorobenzene-d4	152	12.606	12.597	(1.000)	60465	50.0000	
	83 n-Butylbenzene	91	13.062	13.054	(1.036)	11829	3.56043	1.0(aQ)
M	63 Xylene (Total)	106				23125	8.95898	2
	89 Naphthalene	128	15.120	15.101	(1.199)	17070	5.95445	2

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

(58) 1/9/03

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1891.D
Report Date: 09-Jan-2003 16:24

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1891.D
Lab Smp Id: A1905-01ARE Client Smp ID: AOC3CTCP6RE
Inj Date : 30-DEC-2002 21:20
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-01ARE,AOC3CTCP6RE,V1B1230A,,A1905
Misc Info : 23-DEC-02,,,,,,,18.7
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	18.700	Weight of sample (g)
M	0.000	% Moisture (not decanted)

ISTD	RT	AREA	AMOUNT
* 38 Fluorobenzene	5.965	776738	50.000
* 57 Chlorobenzene-d5	9.646	585847	50.000
* 81 1,4-Dichlorobenzene-d4	12.606	645698	50.000

	RT	AREA	CONCENTRATIONS ON-COL(ug/L)	CONCENTRATIONS FINAL(ug/Kg)	QUANT QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:				
	1.754	2676177	172.270251	46	0		0	38

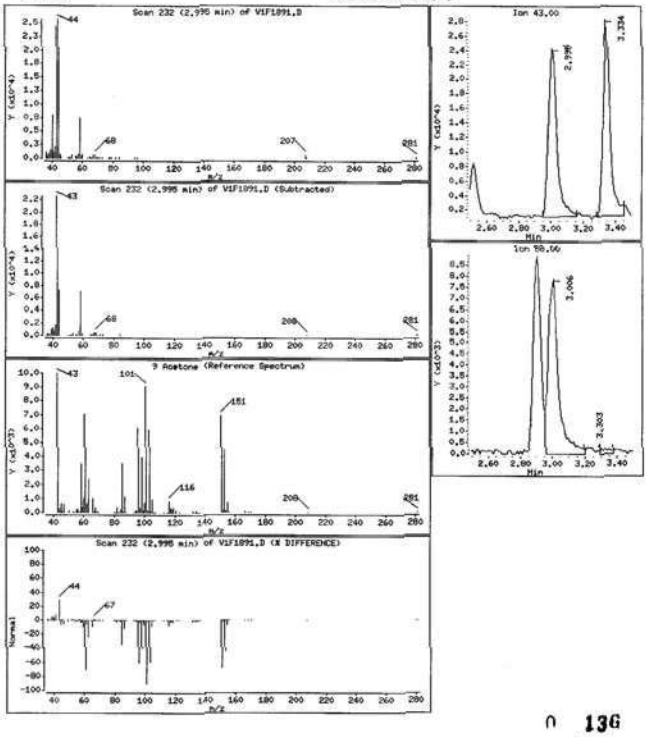
Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1891.D
Report Date: 09-Jan-2003 16:24

	RT	AREA	CONCENTRATIONS ON-COL(ug/L)	CONCENTRATIONS FINAL(ug/Kg)	QUANT QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:				
	2.528	1345405	86.4061034	23	0		0	38
Unknown				CAS #:				
	3.334	266584	17.1404840	4	0		0	38
Unknown				CAS #:				
	4.554	238037	15.3228631	4	0		0	38
Unknown				CAS #:				
	6.356	580696	55.6515777	5	0		0	38
Hexanal				CAS #: 66-25-1				
	8.850	252315	21.5342060	4	90	NBS75K.L	61408	57
Unknown				CAS #:				
	10.845	192412	36.4234006	4	0		0	57
Unknown				CAS #:				
	11.364	226963	17.5784765	5	0		0	81
Cyclotetrasiloxane, octamethyl-				CAS #: 556-67-2				
	11.555	228519	17.7264758	5	86	NBS75K.L	41966	81
Benzene, 1-ethyl-2-methyl-				CAS #: 611-14-3				
	11.640	555459	43.0122131	12	95	NBS75K.L	64559	81
Straight-chain Alkane				CAS #:				
	11.799	733933	57.2971420	15	0		0	81
Benzene, 1-ethyl-2-methyl-				CAS #: 611-14-3				
	11.990	321662	24.1337282	8	94	NBS75K.L	64557	81
Branched Alkane				CAS #:				
	12.160	210971	16.3366620	4	0		0	81
Unknown				CAS #:				
	12.340	241026	18.6639884	5	0		0	81
Unknown				CAS #:				
	12.489	447758	34.6724010	9	0		0	81
1,2,4-Trimethylbenzene				CAS #: 95-36-3				
	12.701	517481	40.0714421	11	96	NBS75K.L	3771	81

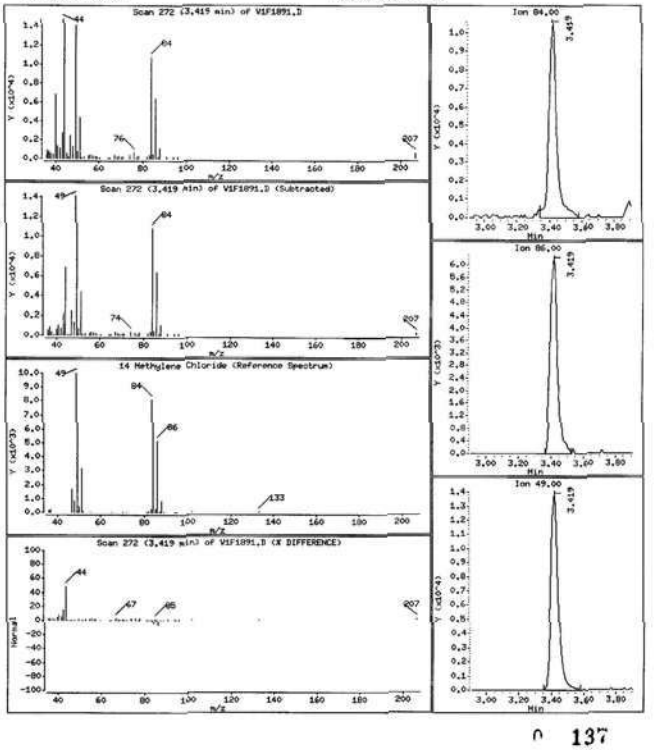
Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1891.D
Report Date: 09-Jan-2003 16:24

RT	AREA	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CMND #
****	****	**********	**********	****	*******	*******	******
Unknown					CAS #:		
12.743	413165	31.9338720	8	0		0	81
Unknown					CAS #:		
12.913	3215925	249.027022	66	0		0	81
Naphthalene, decahydro-, trans-					CAS #: 493-02-7		
13.019	727136	56.3061989	15	94	NBS75K.L	65355	81
Straight-chain Alkane					CAS #:		
13.221	1146612	88.7885668	24	0		0	81
Benzene, 1-methyl-4-(1-methylethyl)-					CAS #: 99-87-6		
13.390	375796	29.0999817	8	86	NBS75K.L	6201	81
Unknown					CAS #:		
13.454	543191	42.0623109	11	0		0	81
Unknown					CAS #:		
13.593	296079	22.9270495	6	0		0	81
Naphthalene, decahydro-2-methyl-					CAS #: 2958-76-1		
13.762	404379	31.3133229	8	93	NBS75K.L	67009	81
Cyclic Alkane					CAS #:		
13.868	220064	17.6602684	5	0		0	81
Benzene, 4-ethyl-1,2-dimethyl-					CAS #: 934-80-5		
13.921	293966	22.7634281	6	89	NBS75K.L	65569	81
Unknown					CAS #:		
13.974	407538	31.5579419	8	0		0	81
Unknown					CAS #:		
14.112	313671	24.2892962	6	0		0	81
Straight-chain Alkane					CAS #:		
14.441	452589	35.0464923	9	0		0	81
Unknown					CAS #:		
14.610	175849	13.6169695	4	0		0	81

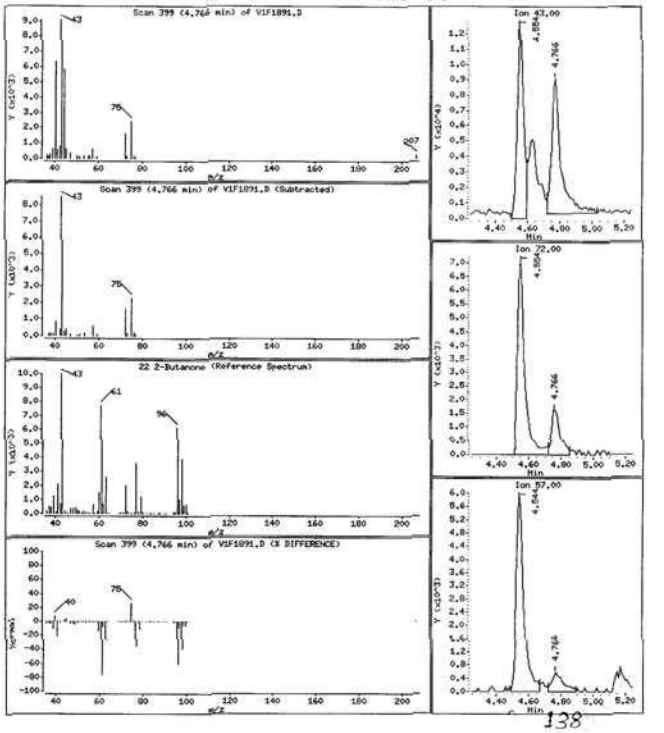
Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1891.D
Date : 30-DEC-2002 21:20
Client ID: AOC3CTCP6RE
Instrument: v1.i
Sample Info: HRP,A1905-01ARE,AOC3CTCP6RE,V1B1230A,,A1905
Operator: KEN
Column phase: DB-624
Column diameter: 0.25
9 Acetone
Concentration: 20 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1891.D
Date : 30-DEC-2002 21:20
Client ID: AOC3CTCP6RE
Instrument: v1.i
Sample Info: HRP,A1905-01ARE,AOC3CTCP6RE,V1B1230A,,A1905
Operator: KEN
Column phase: DB-624
Column diameter: 0.25
14 Methylene Chloride
Concentration: 3 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1891.D
Date : 30-DEC-2002 21:20
Client ID: AOC3CTCP6RE
Instrument: v1.i
Sample Info: HRP,A1905-01ARE,AOC3CTCP6RE,V1B1230A,,A1905
Operator: KEN
Column phase: DB-624
Column diameter: 0.25
22 2-Butanone
Concentration: 6 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP&RE

Instrument: v1.i

Sample Info: HRP,A1905-01ARE,AOC3CTCP&RE,V1B1230A,,A1905

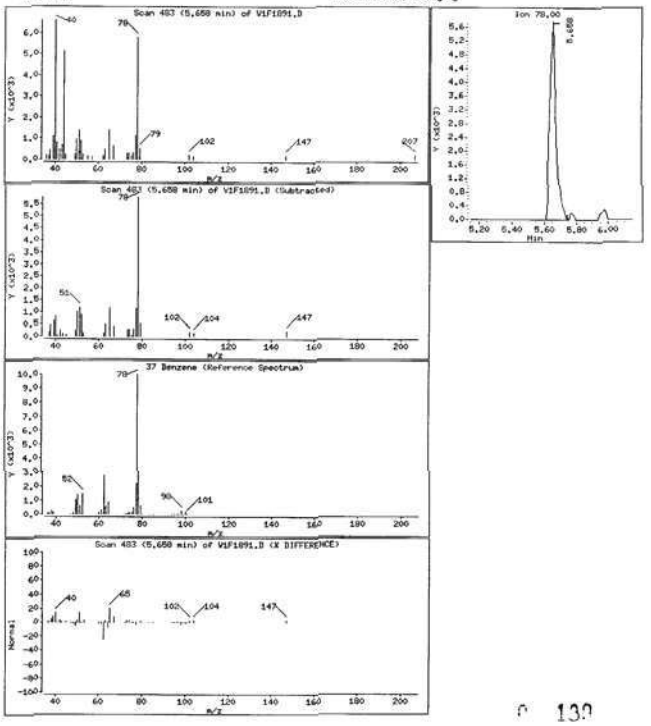
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

37 Benzene

Concentration: 0.5 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP&RE

Instrument: v1.i

Sample Info: HRP,A1905-01ARE,AOC3CTCP&RE,V1B1230A,,A1905

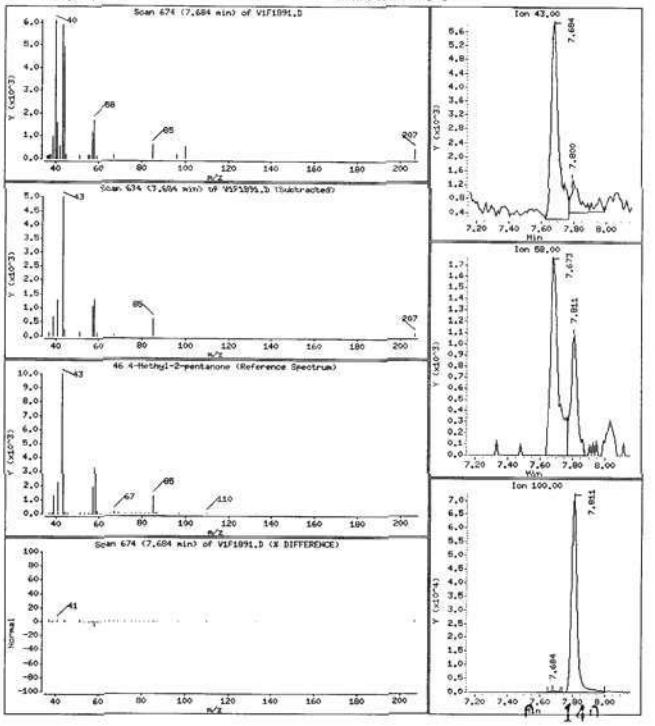
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

46 4-Methyl-2-pentanone

Concentration: 2 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP&RE

Instrument: v1.i

Sample Info: HRP,A1905-01ARE,AOC3CTCP&RE,V1B1230A,,A1905

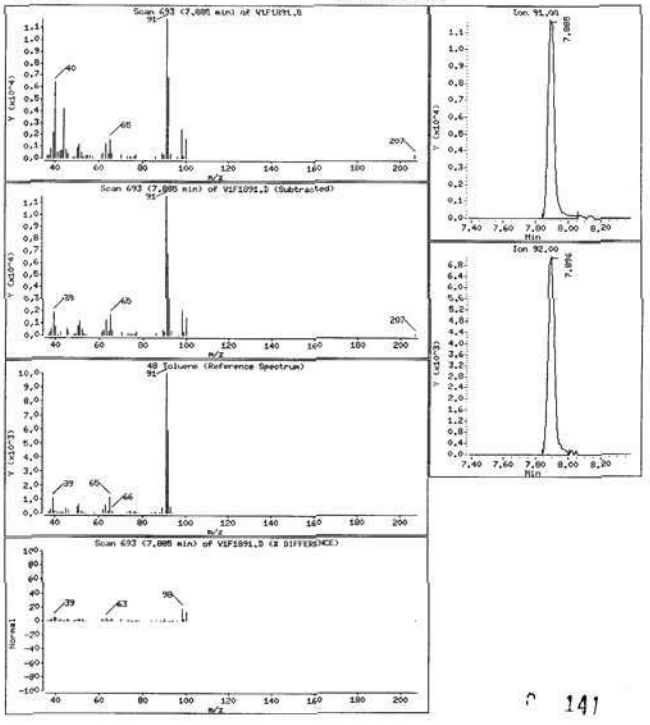
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

48 Toluene

Concentration: 1 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP&RE

Instrument: v1.i

Sample Info: HRP,A1905-01ARE,AOC3CTCP&RE,V1B1230A,,A1905

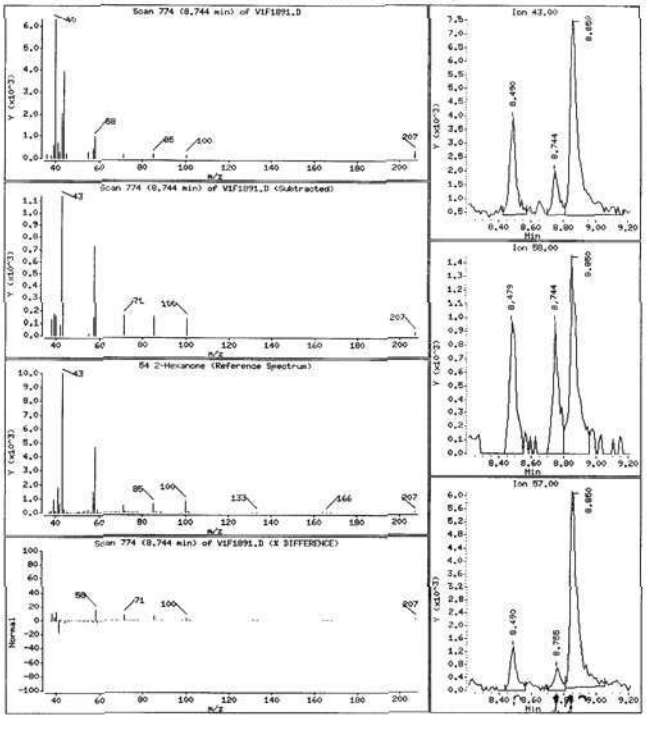
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

54 2-Hexanone

Concentration: 0.8 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\woa\w1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP6RE

Instrument: v1.i

Sample Info: HRP,A1905-01ARE,AOC3CTCP6RE,V1B1230A,,A1905

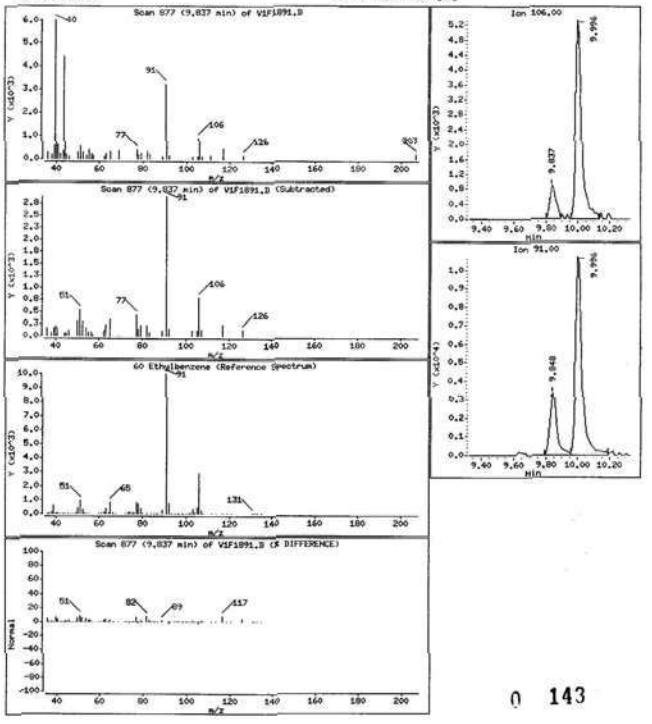
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

60 Ethylbenzene

Concentration: 0.3 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\woa\w1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP6RE

Instrument: v1.i

Sample Info: HRP,A1905-01ARE,AOC3CTCP6RE,V1B1230A,,A1905

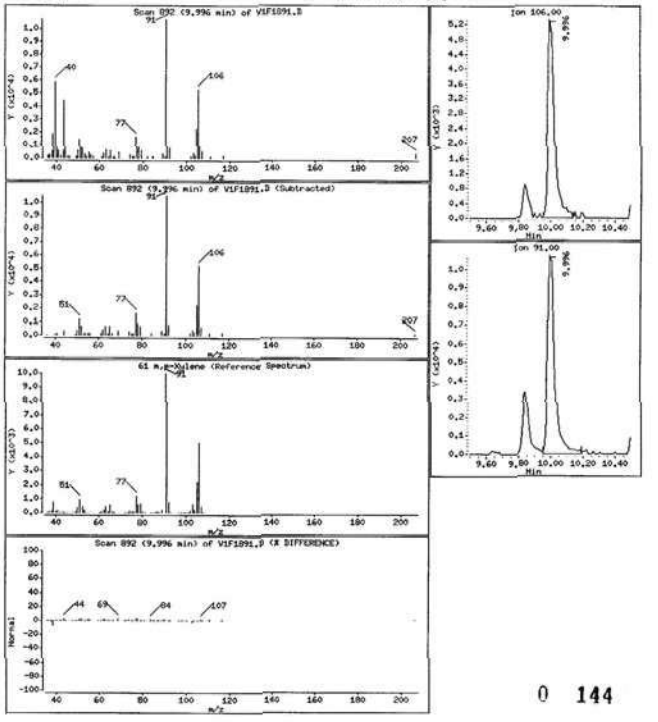
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

61 m,p-Xylene

Concentration: 1 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\woa\w1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP6RE

Instrument: v1.i

Sample Info: HRP,A1905-01ARE,AOC3CTCP6RE,V1B1230A,,A1905

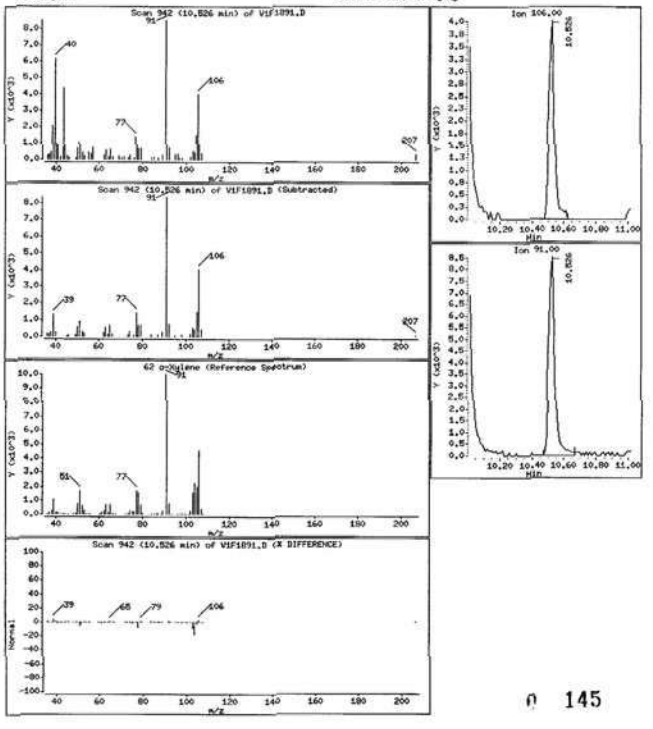
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

62 o-Xylene

Concentration: 0.9 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\woa\w1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP6RE

Instrument: v1.i

Sample Info: HRP,A1905-01ARE,AOC3CTCP6RE,V1B1230A,,A1905

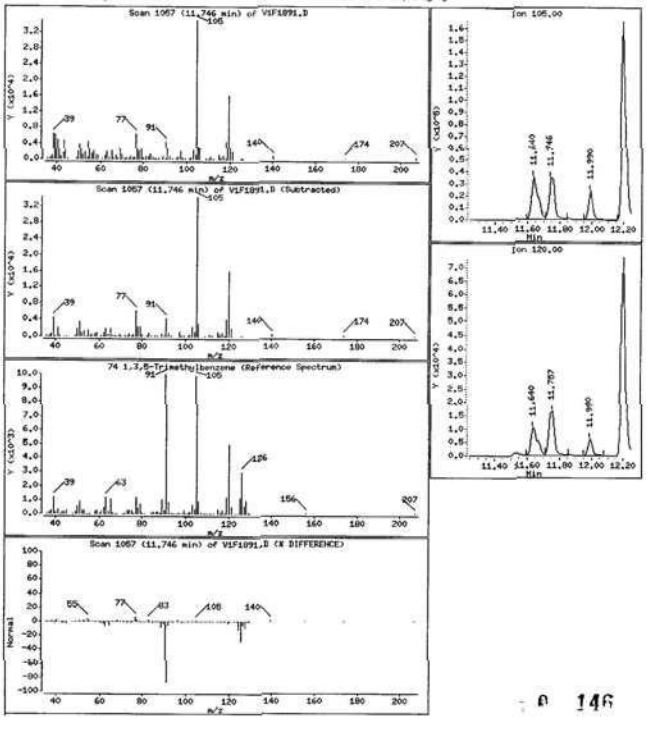
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

74 1,3,5-Trimethylbenzene

Concentration: 6 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP6RE

Instrument: v1.i

Sample Info: HRP,A1905-01ARE,AOC3CTCP6RE,V1B1230A,,A1905

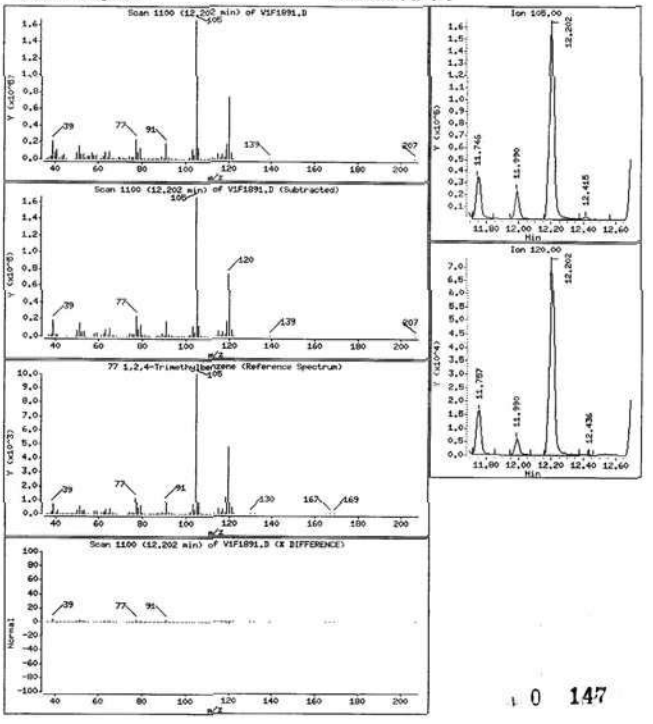
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

77 1,2,4-Trimethylbenzene

Concentration: 20 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP6RE

Instrument: v1.i

Sample Info: HRP,A1905-01ARE,AOC3CTCP6RE,V1B1230A,,A1905

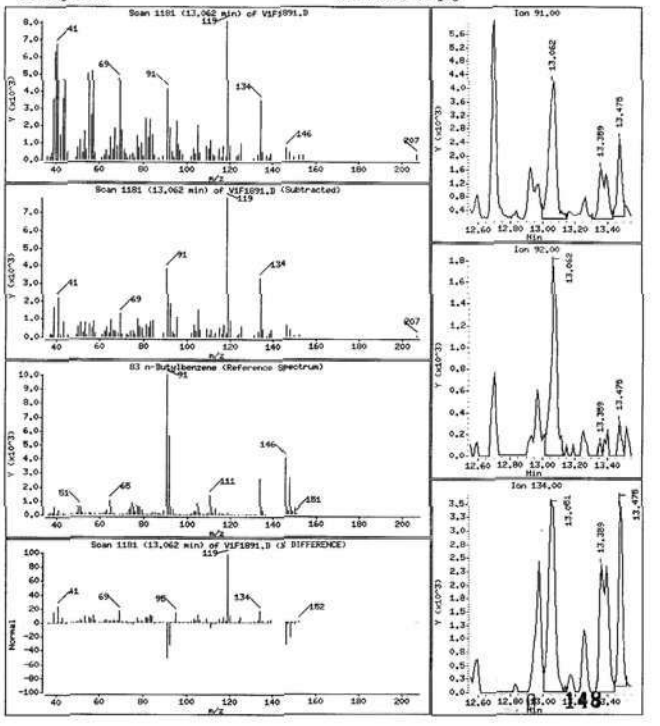
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

83 n-Butylbenzene

Concentration: 1.0 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP6RE

Instrument: v1.i

Sample Info: HRP,A1905-01ARE,AOC3CTCP6RE,V1B1230A,,A1905

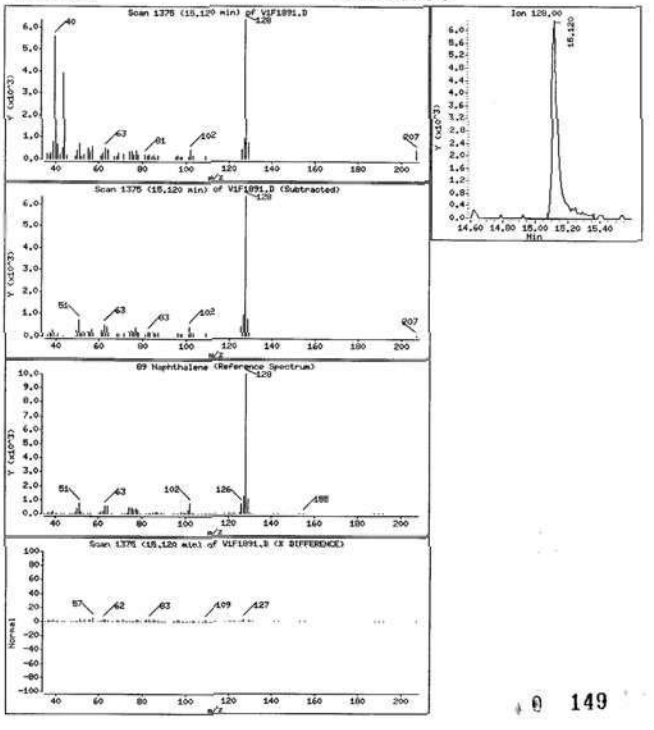
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

89 Naphthalene

Concentration: 2 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP6RE

Instrument: v1.i

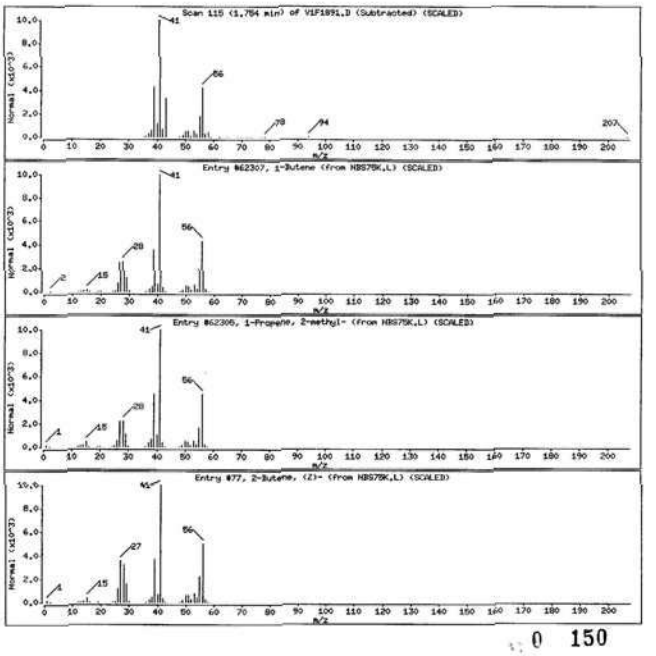
Sample Info: HRP,A1905-01ARE,AOC3CTCP6RE,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Butene#	106-98-9	NBS75K.L	62307	83	C4H8	56
1-Propene, 2-methyl-	115-11-7	NBS75K.L	62306	83	C4H8	56
2-Butene, (Z)-	590-18-1	NBS75K.L	77	72	C4H8	56



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

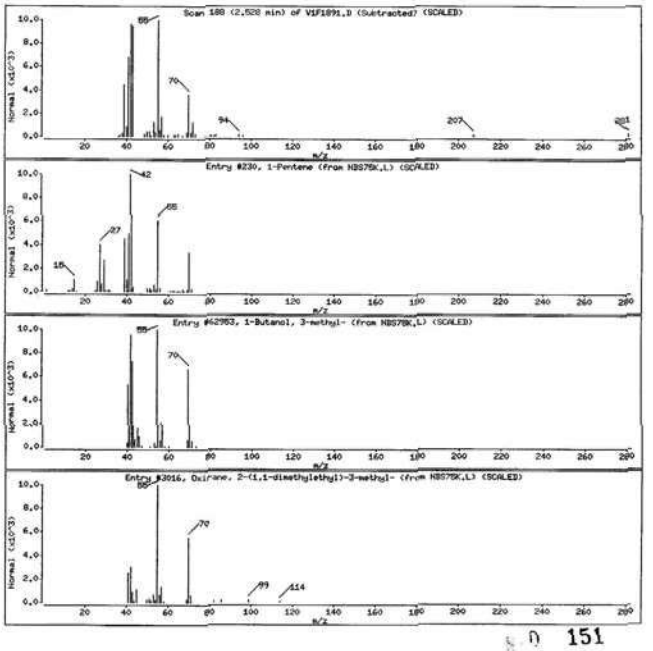
Client ID: AOC3CTCP&RE Instrument: v1.i

Sample Info: HRP,A1905-01ARE,AOC3CTCP&RE,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Pentene	109-67-1	NBS75K.L	230	72	C5H10	70
1-Butanol, 3-methyl-	123-51-3	NBS75K.L	62963	72	C5H12O	88
Oxirane, 2-(1,1-dimethylethyl)-3-methyl-	53897-30-6	NBS75K.L	3016	64	C7H14O	114



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

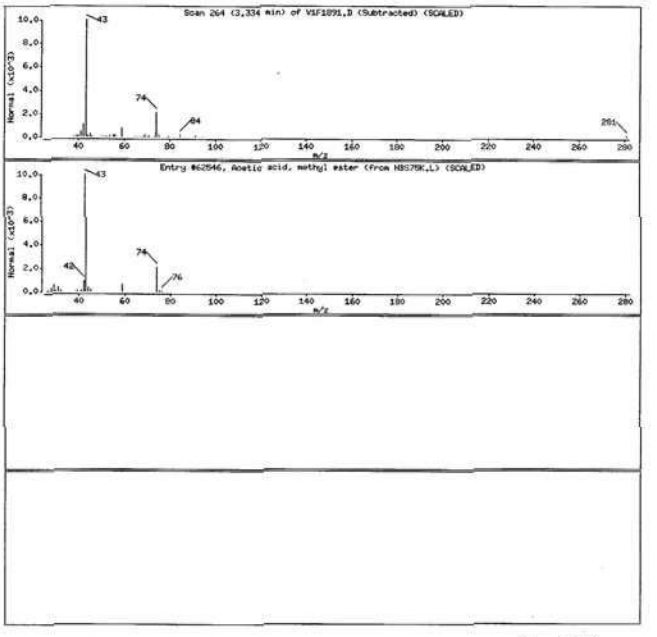
Client ID: AOC3CTCP&RE Instrument: v1.i

Sample Info: HRP,A1905-01ARE,AOC3CTCP&RE,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Acetic acid, methyl ester	79-20-9	NBS75K.L	62546	64	C3H6O2	74



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

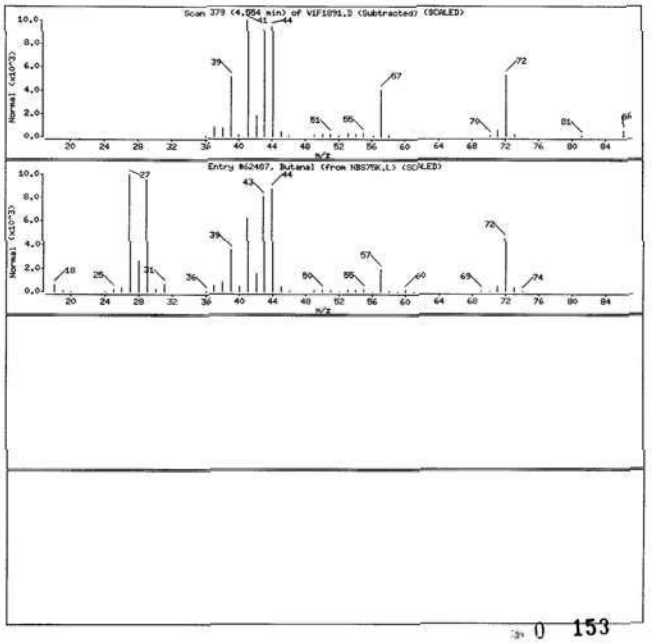
Client ID: AOC3CTCP&RE Instrument: v1.i

Sample Info: HRP,A1905-01ARE,AOC3CTCP&RE,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Butanal	123-72-8	NBS75K.L	62487	64	C4H8O	72



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

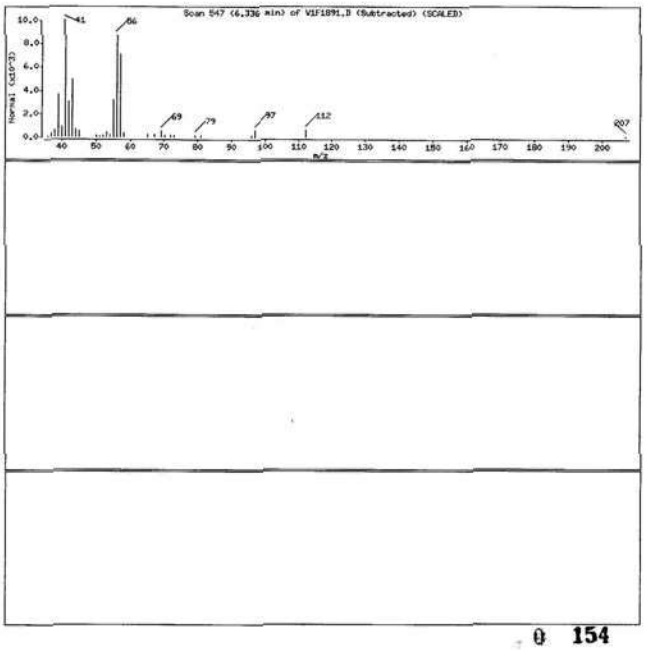
Client ID: AOC3CTCP&RE Instrument: v1.i

Sample Info: HRP,A1905-01ARE,AOC3CTCP&RE,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP6RE

Instrument: v1.i

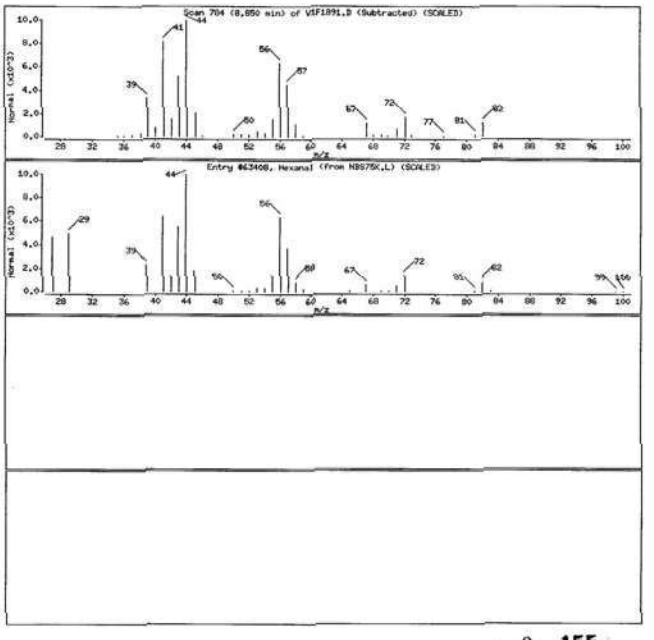
Sample Info: HRP,A1905-01ARE,AOC3CTCP6RE,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Hexanal	66-25-1	NBS75K.L	63408	90	C6H12O	100



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP6RE

Instrument: v1.i

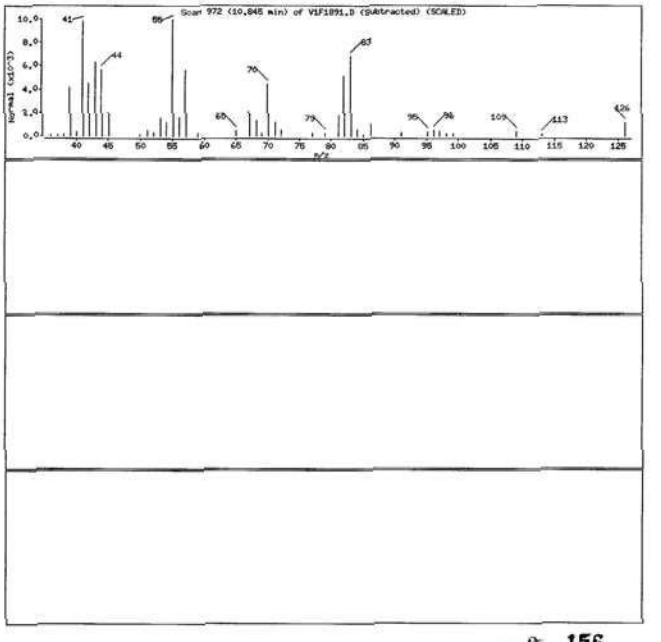
Sample Info: HRP,A1905-01ARE,AOC3CTCP6RE,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP6RE

Instrument: v1.i

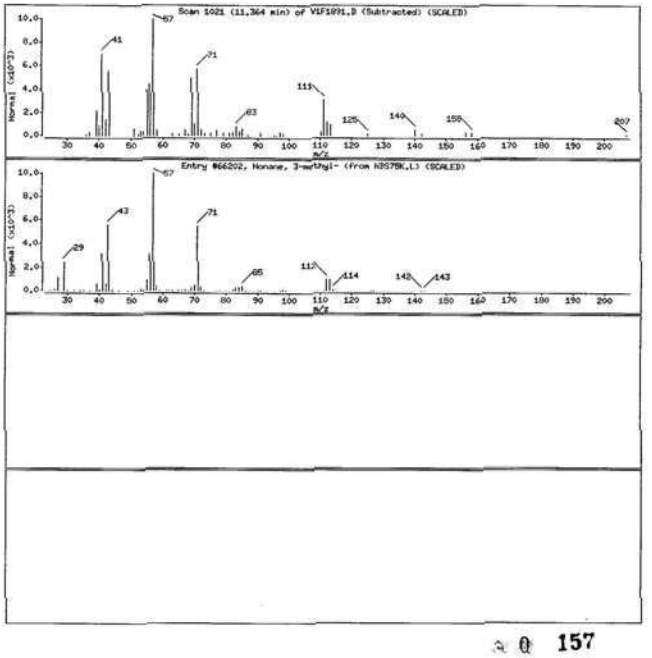
Sample Info: HRP,A1905-01ARE,AOC3CTCP6RE,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Nonane, 3-methyl-	5911-04-6	NBS75K.L	66202	64	C10H22	142



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP6RE

Instrument: v1.i

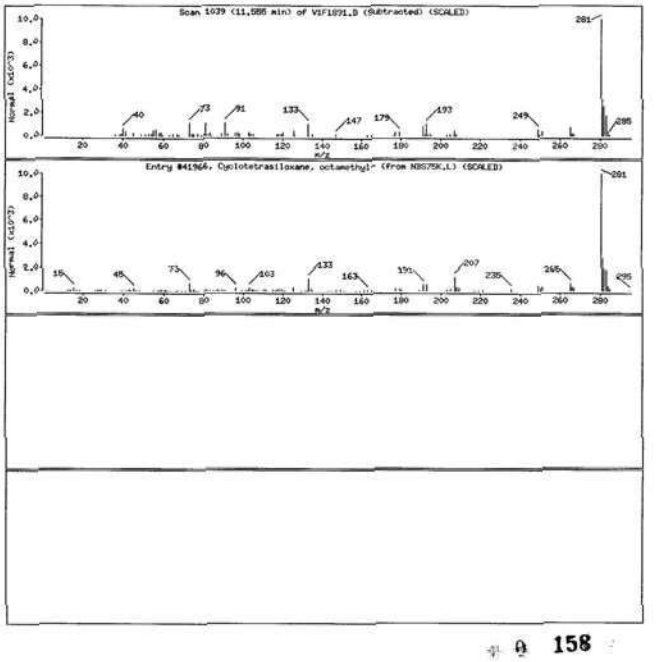
Sample Info: HRP,A1905-01ARE,AOC3CTCP6RE,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS75K.L	41966	86	C8H24O4Si4	296



Data File: \\AVOCADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

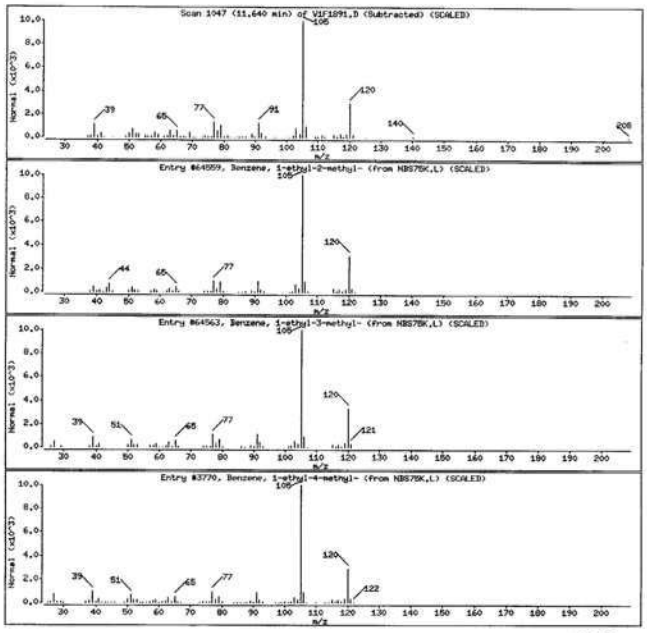
Client ID: AOC3CTCP6RE Instrument: v1.i

Sample Info: HRP,A1905-01ARE,AOC3CTCP6RE,V1B1230A,,A1906

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-ethyl-2-methyl-	611-14-3	NBS75K.L	64559	95	C9H12	120
Benzene, 1-ethyl-3-methyl-	620-14-4	NBS75K.L	64563	95	C9H12	120
Benzene, 1-ethyl-4-methyl-	622-96-8	NBS75K.L	3770	95	C9H12	120



Data File: \\AVOCADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

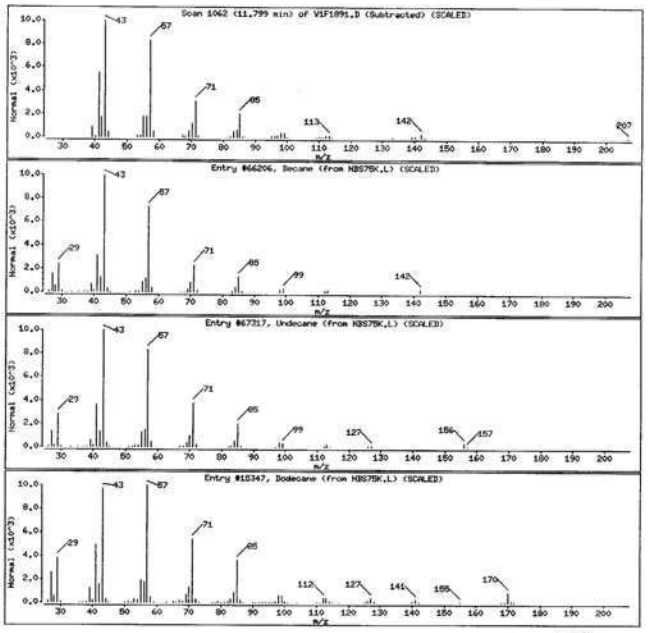
Client ID: AOC3CTCP6RE Instrument: v1.i

Sample Info: HRP,A1905-01ARE,AOC3CTCP6RE,V1B1230A,,A1906

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Decane	124-18-5	NBS75K.L	66206	94	C10H22	142
Undecane	1120-21-4	NBS75K.L	67317	90	C11H24	156
Dodecane	112-40-3	NBS75K.L	15347	83	C12H26	170



Data File: \\AVOCADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

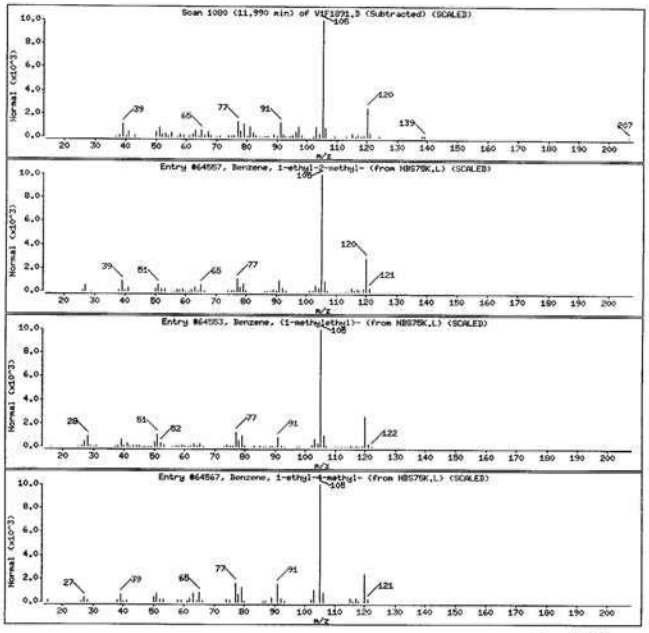
Client ID: AOC3CTCP6RE Instrument: v1.i

Sample Info: HRP,A1905-01ARE,AOC3CTCP6RE,V1B1230A,,A1906

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-ethyl-2-methyl-	611-14-3	NBS75K.L	64557	94	C9H12	120
Benzene, (1-methylethyl)-	98-82-8	NBS75K.L	64953	93	C9H12	120
Benzene, 1-ethyl-4-methyl-	622-96-8	NBS75K.L	64567	90	C9H12	120



Data File: \\AVOCADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

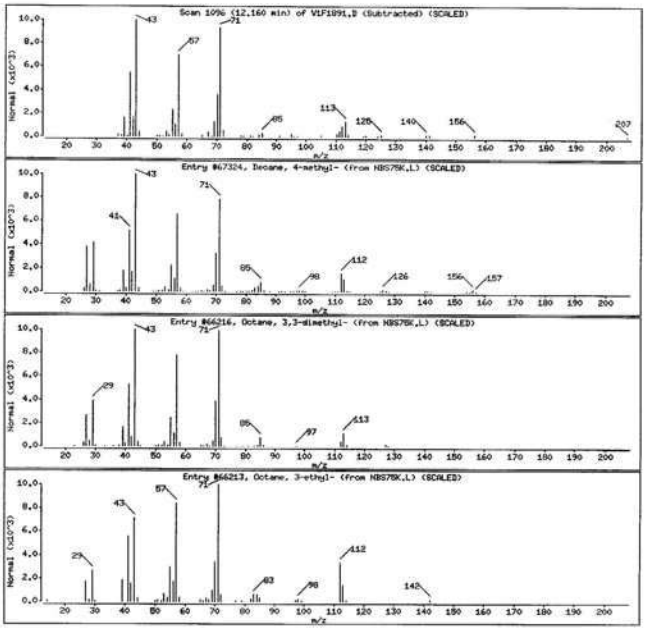
Client ID: AOC3CTCP6RE Instrument: v1.i

Sample Info: HRP,A1905-01ARE,AOC3CTCP6RE,V1B1230A,,A1906

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
Decane, 4-methyl-	2847-72-5	NBS75K.L	67324	87	C11H24	156
Octane, 3,3-dimethyl-	4110-44-5	NBS75K.L	66216	72	C10H22	142
Octane, 3-ethyl-	5881-17-4	NBS75K.L	66213	72	C10H22	142



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP6RE

Instrument: v1.i

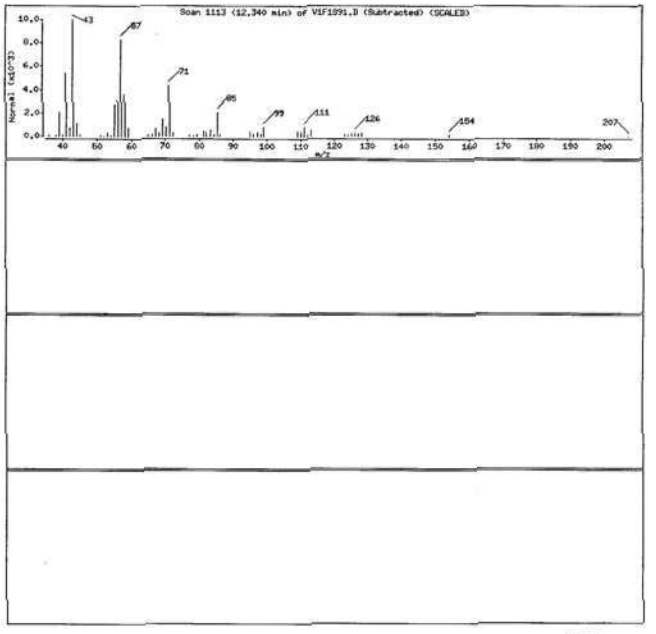
Sample Info: HRP,A1906-01ARE,AOC3CTCP6RE,V1B1230A,,A1906

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP6RE

Instrument: v1.i

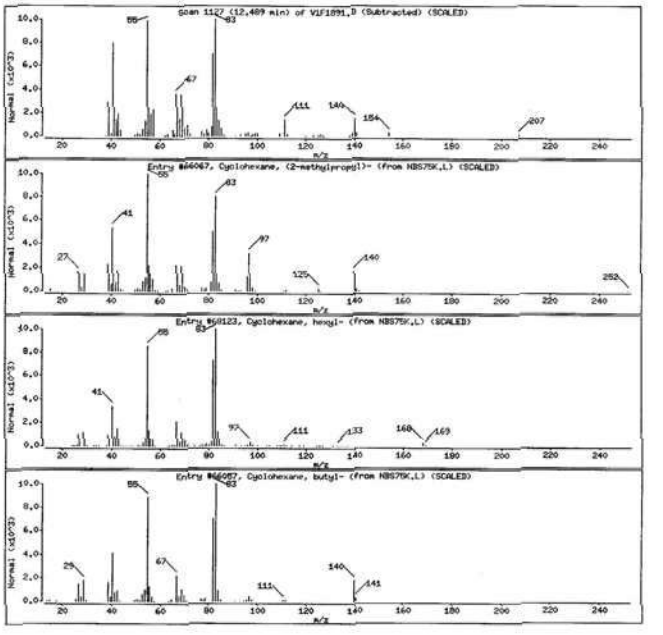
Sample Info: HRP,A1906-01ARE,AOC3CTCP6RE,V1B1230A,,A1906

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexane, (2-methylpropyl)-	1678-98-4	NBS75K.L	66067	80	C10H20	140
Cyclohexane, hexyl-	4292-75-5	NBS75K.L	68123	72	C12H24	168
Cyclohexane, butyl-	1678-93-9	NBS75K.L	66067	72	C10H20	140



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP6RE

Instrument: v1.i

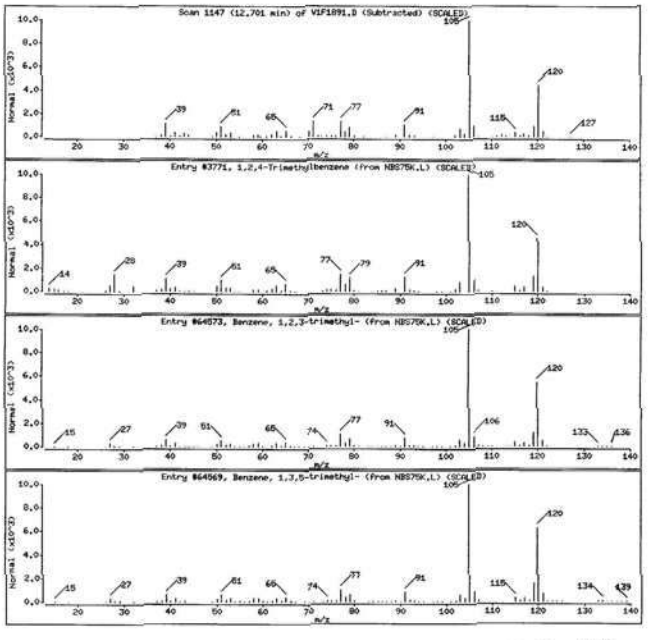
Sample Info: HRP,A1906-01ARE,AOC3CTCP6RE,V1B1230A,,A1906

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,2,4-Trimethylbenzene	95-36-3	NBS75K.L	3771	96	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.L	64673	95	C9H12	120
Benzene, 1,3,5-trimethyl-	108-67-8	NBS75K.L	64569	94	C9H12	120



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP6RE

Instrument: v1.i

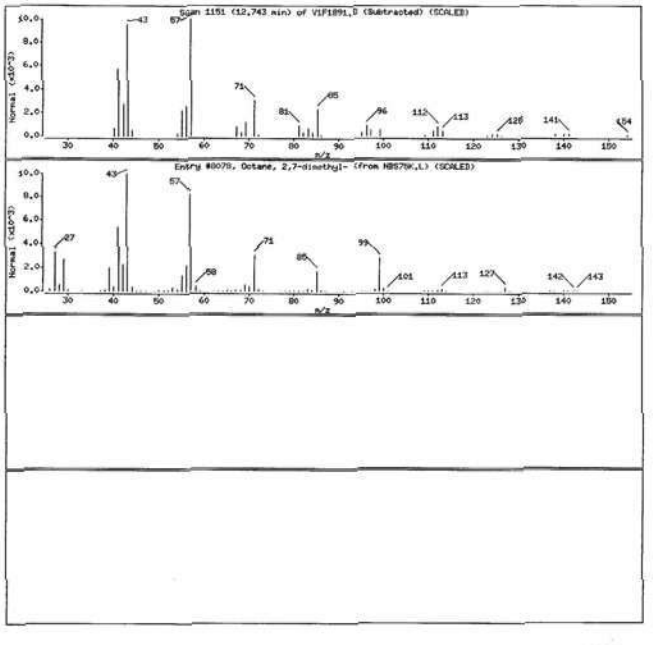
Sample Info: HRP,A1906-01ARE,AOC3CTCP6RE,V1B1230A,,A1906

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Octane, 2,7-dimethyl-	1072-16-8	NBS75K.L	8078	64	C10H22	142



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP&RE

Instrument: v1.i

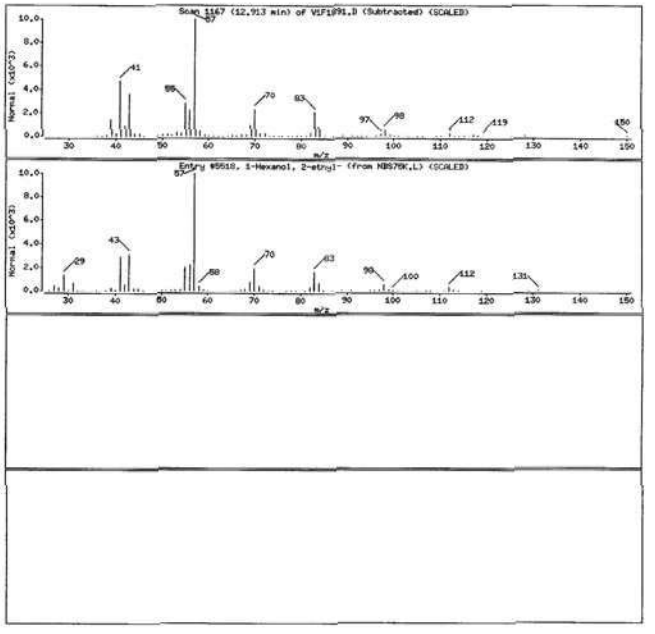
Sample Info: MRP,A1905-01ARE,AOC3CTCP&RE,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Hexanol, 2-ethyl-	104-76-7	NBS75K.L	8818	74	C8H18O	130



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP&RE

Instrument: v1.i

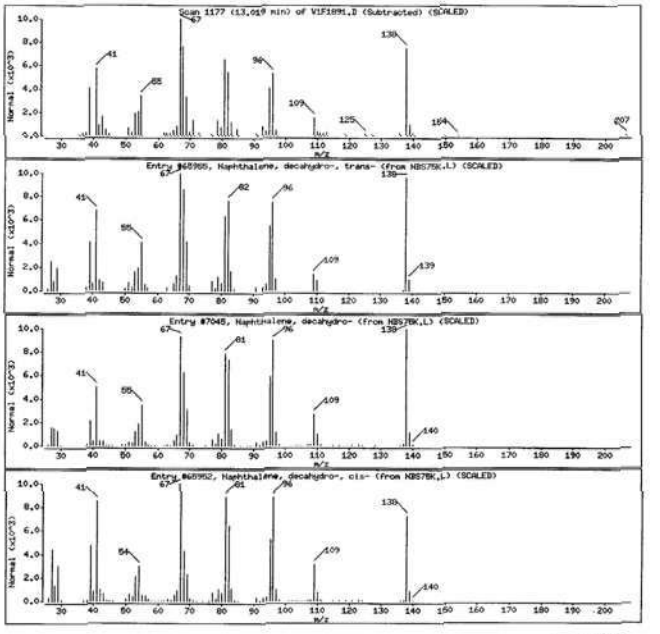
Sample Info: MRP,A1905-01ARE,AOC3CTCP&RE,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, decahydro-, trans-	493-02-7	NBS75K.L	68905	94	C10H18	138
Naphthalene, decahydro-	91-17-8	NBS75K.L	7048	93	C10H18	138
Naphthalene, decahydro-, cis-	493-01-6	NBS75K.L	68952	62	C10H18	138



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP&RE

Instrument: v1.i

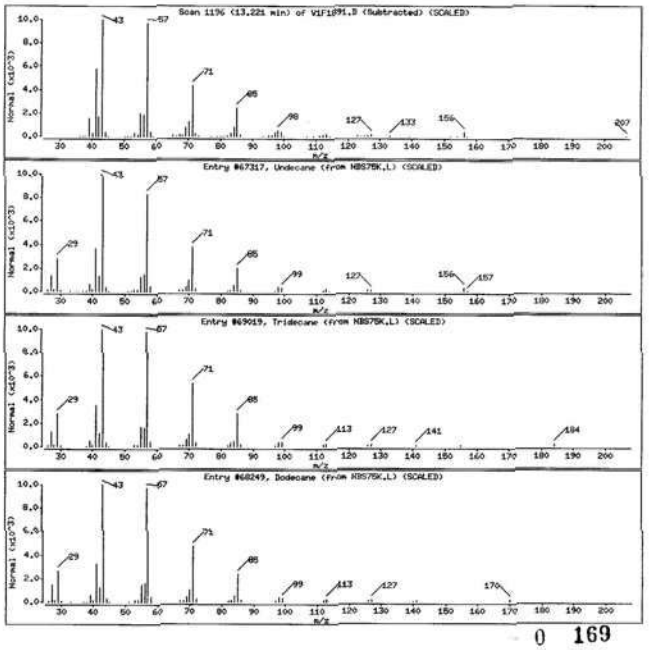
Sample Info: MRP,A1905-01ARE,AOC3CTCP&RE,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Undecane	1120-21-4	NBS75K.L	67317	97	C11H24	156
Tridecane	629-50-5	NBS75K.L	69019	86	C13H28	184
Dodecane	112-40-3	NBS75K.L	68249	80	C12H26	170



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP&RE

Instrument: v1.i

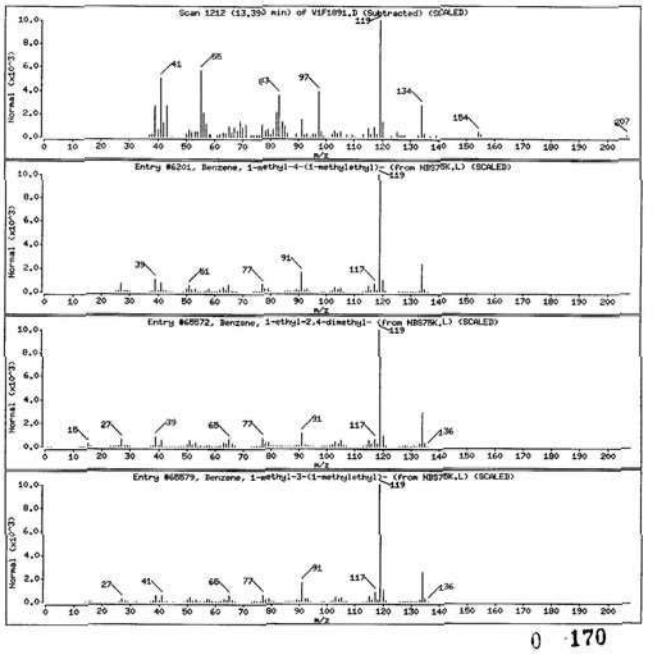
Sample Info: MRP,A1905-01ARE,AOC3CTCP&RE,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-methyl-4-(1-methylethyl)-	99-87-6	NBS75K.L	6201	86	C10H14	134
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	NBS75K.L	66872	86	C10H14	134
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NBS75K.L	66879	86	C10H14	134



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP&RE

Instrument: v1.i

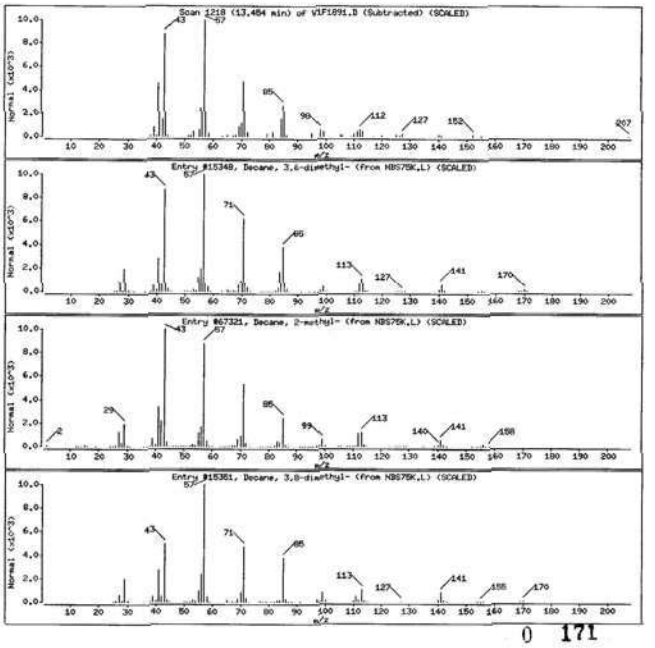
Sample Info: MRP,A1905-01ARE,AOC3CTCP&RE,V1B1230A,,A1905

Operator: KEN

Column phase: BB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Decane, 3,6-dimethyl-	17312-53-7	NBS75K.L	15340	78	C12H26	170
Decane, 2-methyl-	6975-98-0	NBS75K.L	67321	64	C11H24	156
Decane, 3,8-dimethyl-	17312-55-9	NBS75K.L	15351	64	C12H26	170



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP&RE

Instrument: v1.i

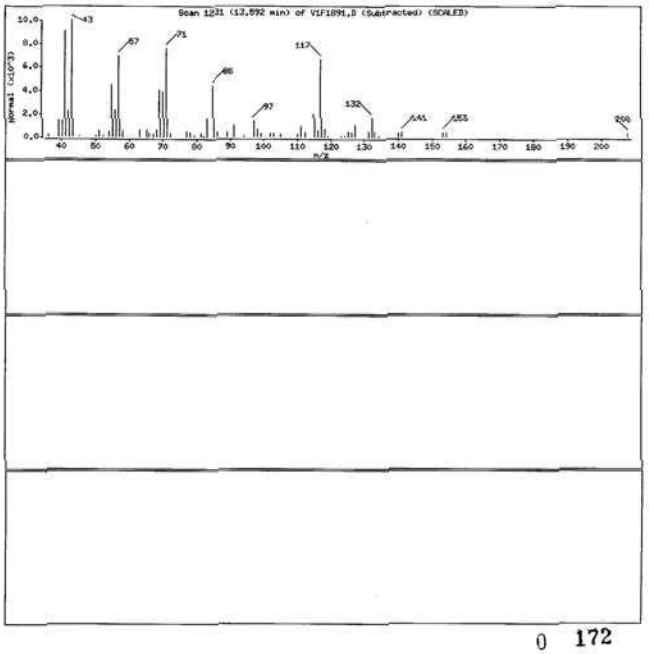
Sample Info: MRP,A1905-01ARE,AOC3CTCP&RE,V1B1230A,,A1905

Operator: KEN

Column phase: BB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP&RE

Instrument: v1.i

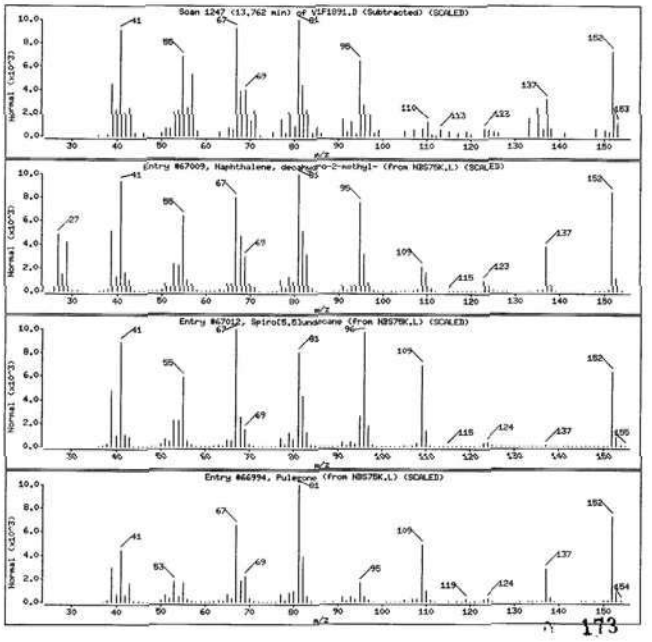
Sample Info: MRP,A1905-01ARE,AOC3CTCP&RE,V1B1230A,,A1905

Operator: KEN

Column phase: BB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, decahydro-2-methyl-	2958-76-1	NBS75K.L	67009	93	C11H20	152
Spiro[5.5]undecane	180-43-0	NBS75K.L	67012	89	C11H20	152
Pulegone	89-82-7	NBS75K.L	66994	76	C10H16O	152



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

Client ID: AOC3CTCP&RE

Instrument: v1.i

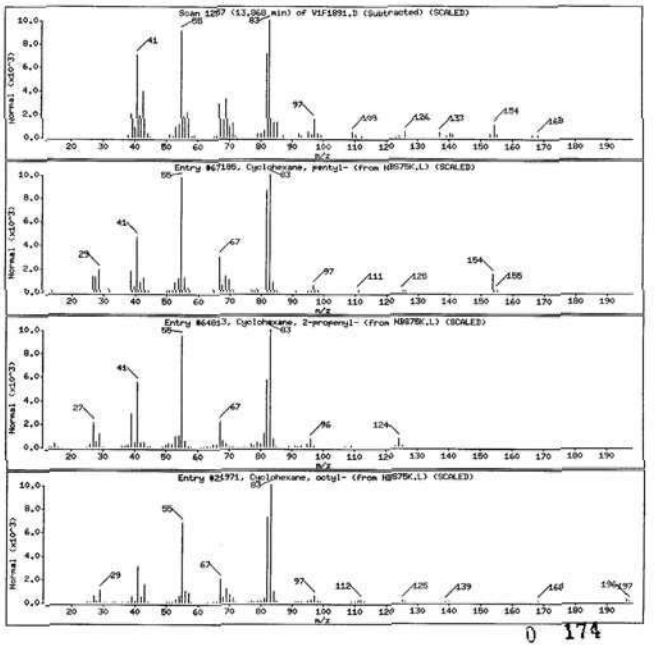
Sample Info: MRP,A1905-01ARE,AOC3CTCP&RE,V1B1230A,,A1905

Operator: KEN

Column phase: BB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclic Alkane						
Cyclohexane, pentyl-	4292-92-6	NBS75K.L	67185	87	C11H22	154
Cyclohexane, 2-propenyl-	2114-42-3	NBS75K.L	64813	64	C9H16	124
Cyclohexane, octyl-	1795-15-9	NBS75K.L	21971	64	C14H28	196



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

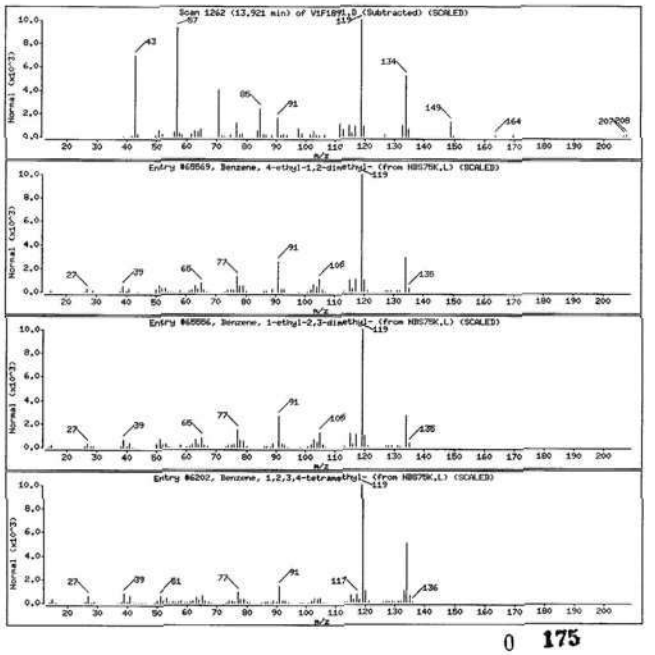
Client ID: AOC3CTCP6RE Instrument: v1.i

Sample Info: HRP,A1905-01ARE,AOC3CTCP6RE,V1812304,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	NBS75K.L	68569	89	C10H14	134
Benzene, 1-ethyl-2,3-dimethyl-	933-98-2	NBS75K.L	68556	89	C10H14	134
Benzene, 1,2,3,4-tetramethyl-	488-23-3	NBS75K.L	6202	87	C10H14	134



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

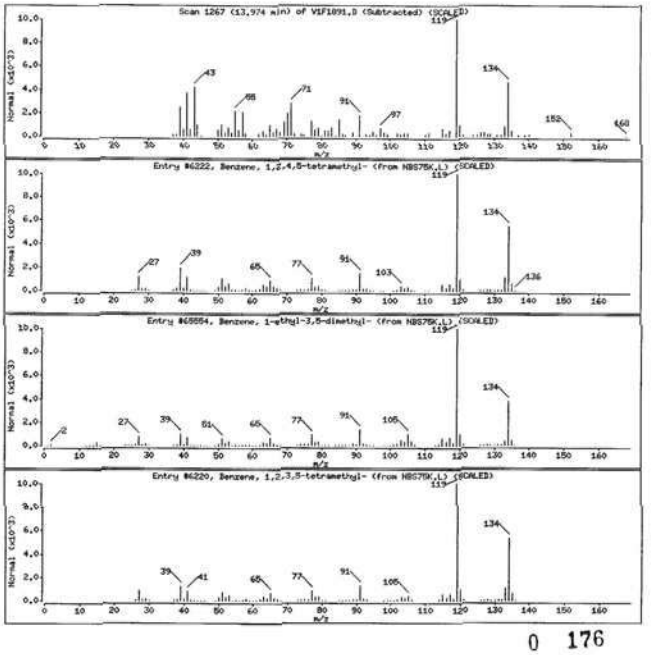
Client ID: AOC3CTCP6RE Instrument: v1.i

Sample Info: HRP,A1905-01ARE,AOC3CTCP6RE,V1812304,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NBS75K.L	6222	70	C10H14	134
Benzene, 1-ethyl-3,5-dimethyl-	934-74-7	NBS75K.L	68554	70	C10H14	134
Benzene, 1,2,3,5-tetramethyl-	527-53-7	NBS75K.L	6220	70	C10H14	134



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

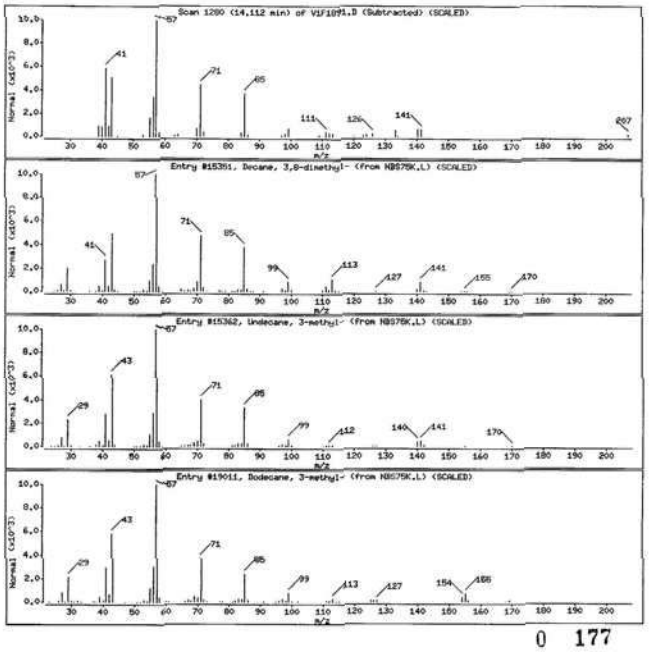
Client ID: AOC3CTCP6RE Instrument: v1.i

Sample Info: HRP,A1905-01ARE,AOC3CTCP6RE,V1812304,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Decane, 3,8-dimethyl-	17312-55-9	NBS75K.L	15381	83	C12H26	170
Undecane, 3-methyl-	1002-43-3	NBS75K.L	15362	78	C12H26	170
Dodecane, 3-methyl-	17312-57-1	NBS75K.L	19011	64	C13H28	184



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

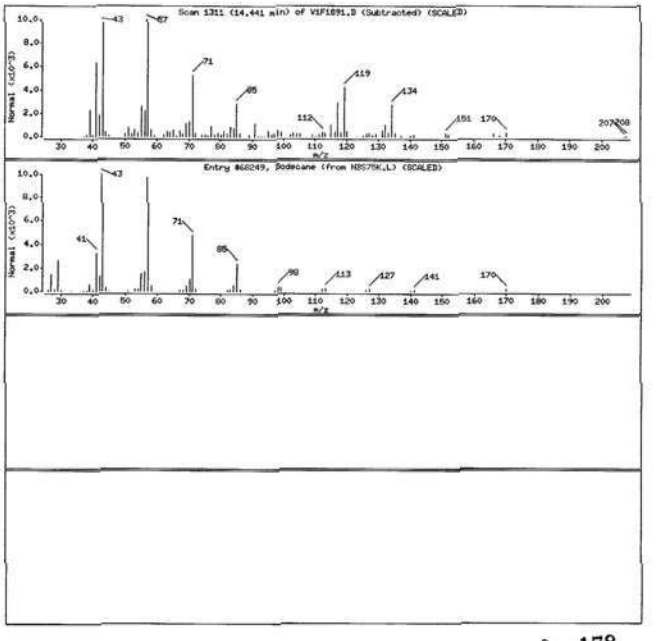
Client ID: AOC3CTCP6RE Instrument: v1.i

Sample Info: HRP,A1905-01ARE,AOC3CTCP6RE,V1812304,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Dodecane	112-40-3	NBS75K.L	68249	86	C12H26	170



Data File: \\AVOCADO\USERDATA\Organic\voa\v1.i\021230.B\V1F1891.D

Date : 30-DEC-2002 21:20

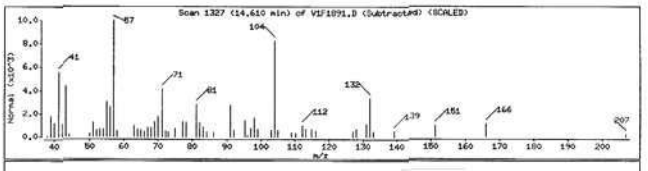
Client ID: AOC3CTCP6RE Instrument: v1.i

Sample Info: HRP,A1905-01ARE,AOC3CTCP6RE,V1312300,,A1905

Operator: KEH

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Unknown			0	0		0



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC3CTCP7

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-02A

Sample wt/vol: 13.0 (g/mL) G Lab File ID: V1F1883

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 0 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	48	
75-09-2	Methylene Chloride	0.4	BJ
156-60-5	trans-1,2-Dichloroethene	2	U
1634-04-4	Methyl tert-butyl ether	2	U
75-34-3	1,1-Dichloroethane	2	U
78-93-3	2-Butanone	13	
156-59-2	cis-1,2-Dichloroethene	2	U
590-20-7	2,2-Dichloropropane	2	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
109-99-9	Tetrahydrofuran	2	U
71-55-6	1,1,1-Trichloroethane	0.5	J
563-58-6	1,1-Dichloropropene	2	U
56-23-5	Carbon Tetrachloride	2	U
107-06-2	1,2-Dichloroethane	2	U
71-43-2	Benzene	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-pentanone	9	
108-88-3	Toluene	1	J
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
127-18-4	Tetrachloroethene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC3CTCP7

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-02A

Sample wt/vol: 13.0 (g/mL) G Lab File ID: V1F1883

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 0 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	6	
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	0.5	J
	m,p-Xylene	2	
95-47-6	o-Xylene	1	J
1330-20-7	Xylene (Total)	3	
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	8	
106-43-4	4-Chlorotoluene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	32	
135-98-8	sec-Butylbenzene	2	U
99-87-6	4-Isopropyltoluene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
87-68-3	Hexachlorobutadiene	2	U
91-20-3	Naphthalene	2	
87-61-6	1,2,3-Trichlorobenzene	2	U
544-10-5	1-Chlorohexane	2	U
107-13-1	Acrylonitrile	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: AOC3CTCP7

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-02A

Sample wt/vol: 13.0 (g/mL) G Lab File ID: V1F1883

Level: (low/med) LOW Date Received: 12/23/02

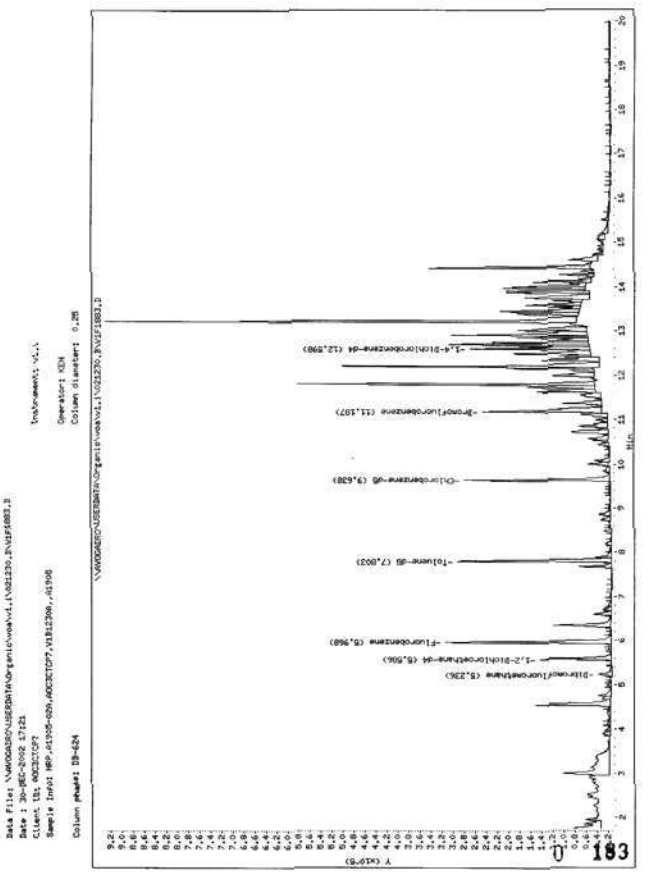
% Moisture: not dec. 0 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	115-11-7	1-PROPENE, 2-METHYL-	1.76	7	NJ
2.	123-72-8	BUTANAL	4.55	10	NJ
3.		UNKNOWN	6.34	8	J
4.		UNKNOWN	10.72	7	J
5.		UNKNOWN	10.85	6	J
6.		UNKNOWN	11.36	10	J
7.	556-67-2	CYCLOTETRASILOXANE, OCTAMETH	11.56	8	NJ
8.	611-14-3	BENZENE, 1-ETHYL-2-METHYL-	11.64	11	NJ
9.		STRAIGHT-CHAIN ALKANE	11.80	56	J
10.	611-14-3	BENZENE, 1-ETHYL-2-METHYL-	11.98	11	NJ
11.		BRANCHED ALKANE	12.16	12	J
12.		UNKNOWN	12.34	13	J
13.		UNKNOWN	12.49	17	J
14.		UNKNOWN	12.65	11	J
15.		BRANCHED ALKANE	12.75	16	J
16.		BRANCHED ALKANE	12.84	10	J
17.		UNKNOWN	12.92	28	J
18.	493-02-7	NAPHTHALENE, DECAHYDRO-, TRA	13.02	18	NJ
19.		STRAIGHT-CHAIN ALKANE	13.22	81	J
20.		UNKNOWN	13.39	13	J
21.		UNKNOWN	13.45	18	J
22.		BRANCHED ALKANE	13.59	9	J
23.		UNKNOWN	13.76	17	J
24.		CYCLIC ALKANE	13.87	13	J
25.		UNKNOWN	13.91	15	J
26.	934-74-7	BENZENE, 1-ETHYL-3,5-DIMETHY	13.98	13	NJ
27.		UNKNOWN	14.02	14	J
28.		UNKNOWN	14.11	11	J
29.		STRAIGHT-CHAIN ALKANE	14.43	25	J
30.		UNKNOWN	14.60	8	J



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1883.D
Report Date: 10-Jan-2003 11:07

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1883.D
Lab Smp Id: A1905-02A Client Smp ID: AOC3CTCP7
Inj Date : 30-DEC-2002 17:21
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905
Misc Info : 23-DEC-02,,,,,,,13.0
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	13.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
	5 Acetone	43	2.998	2.998	(0.502)	134767	125.714	48
	14 Methylene Chloride	84	3.412	3.411	(0.572)	3350	1.07500	0.4(a)
	22 2-Butanone	43	4.759	4.748	(0.797)	51411	34.7564	13
$	30 Dibromofluoromethane	113	5.236	5.225	(0.877)	19172	9.08005	3(R)
	31 1,1,1-Trichloroethane	97	5.257	5.257	(0.881)	3123	1.20955	0.5(a)
$	35 1,2-Dichloroethane-d4	102	5.506	5.506	(0.936)	20368	46.7446	18
*	38 Fluorobenzene	96	5.968	5.957	(1.000)	340462	50.0000	
	46 4-Methyl-2-pentanone	43	7.676	7.665	(1.286)	63853	22.7607	9
$	47 Toluene-d8	98	7.803	7.803	(0.810)	243759	48.3207	18
	48 Toluene	91	7.888	7.888	(1.322)	21724	2.73597	1(a)
	54 2-Hexanone	43	8.736	8.715	(0.906)	25448	16.0543	6
*	57 Chlorobenzene-d5	117	9.638	9.638	(1.000)	195285	50.0000	
	60 Ethylbenzene	106	9.840	9.829	(1.021)	2528	1.20680	0.5(a)
	61 m,p-Xylene	106	9.999	9.999	(1.037)	14799	5.22804	2
	62 o-Xylene	106	10.519	10.518	(1.091)	8145	3.19226	1(aQ)

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1883.D
Report Date: 10-Jan-2003 11:07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$	68 Bromofluorobenzene	95	11.187	11.187	(1.161)	80095	38.3988	15
	74 1,3,5-Trimethylbenzene	105	11.749	11.749	(0.933)	71916	20.4979	8
	77 1,2,4-Trimethylbenzene	105	12.205	12.194	(0.969)	293440	83.7907	32
*	81 1,4-Dichlorobenzene-d4	152	12.598	12.597	(1.000)	69537	50.0000	
M	63 Xylene (Total)	106				24144	8.62030	3
	89 Naphthalene	128	15.122	15.101	(1.200)	14249	4.32196	2

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

1/10/03

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1883.D
Report Date: 09-Jan-2003 16:24

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1883.D
Lab Smp Id: A1905-02A Client Smp ID: AOC3CTCP7
Inj Date : 30-DEC-2002 17:21
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905
Misc Info : 23-DEC-02,,,,,,,13.0
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	13.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

ISTD	RT	AREA	AMOUNT
* 38 Fluorobenzene	5.968	794564	50.000
* 57 Chlorobenzene-d5	9.638	624274	50.000
* 81 1,4-Dichlorobenzene-d4	12.598	440336	50.000

	RT	AREA	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
1-Propene, 2-methyl-				CAS #: 115-11-7				
	1.757	293022	18.3762416	7	NJ	NBS75K.L	62306	38

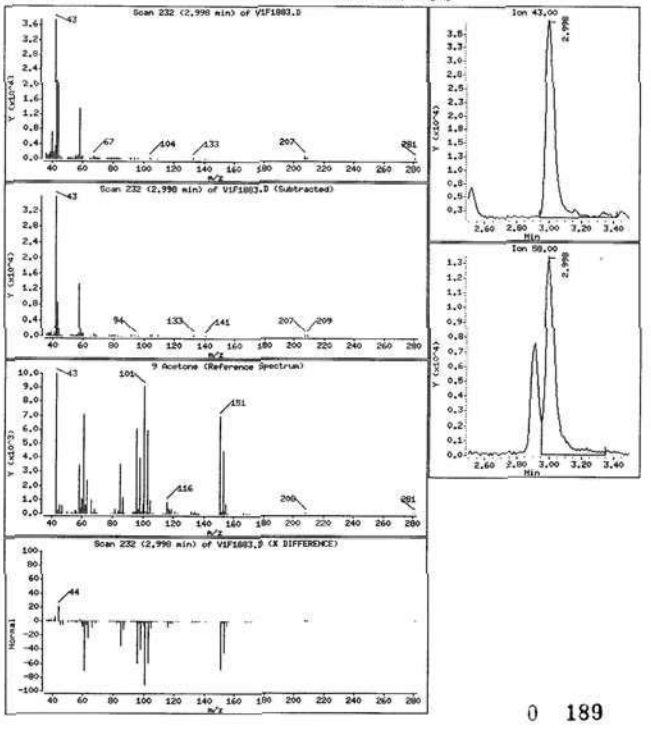
Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1883.D
Report Date: 09-Jan-2003 16:24

RT	AREA	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Butanal			CAS #: 123-72-8				
4.547	434084	27.3158613	10	91	NBS75K.L	62486	38
Unknown			CAS #:				
6.339	327777	20.6262176	8	0		0	38
Unknown			CAS #:				
10.720	234604	18.7901466	7	0		0	57
Unknown			CAS #:				
10.847	182506	14.6174696	6	0		0	57
Unknown			CAS #:				
11.357	227436	25.8252789	10	0		0	81
Cyclotetrasiloxane, octamethyl-			CAS #: 556-67-2				
11.558	181362	20.5935922	8	87	NBS75K.L	41964	81
Benzene, 1-ethyl-2-methyl-			CAS #: 611-14-3				
11.643	258556	29.3589441	11	94	NBS75K.L	64558	81
Straight-chain Alkane			CAS #:				
11.802	1272834	144.529859	56	0		0	81
Benzene, 1-ethyl-2-methyl-			CAS #: 611-14-3				
11.982	253189	28.7495231	11	92	NBS75K.L	64558	81
Branched Alkane			CAS #:				
12.163	280520	31.8529487	12	0		0	81
Unknown			CAS #:				
12.343	289580	32.8817085	13	0		0	81
Unknown			CAS #:				
12.492	389902	44.2732368	17	0		0	81
Unknown			CAS #:				
12.651	258253	29.3245385	11	0		0	81
Branched Alkane			CAS #:				
12.746	361256	41.0304934	16	0		0	81
Branched Alkane			CAS #:				
12.842	225596	25.6163475	10	0		0	81

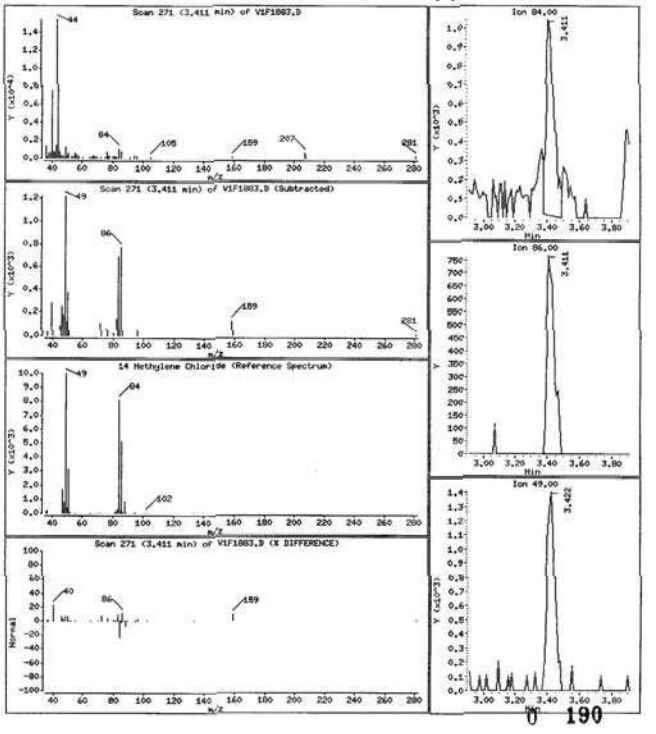
Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1883.D
Report Date: 09-Jan-2003 16:24

RT	AREA	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown			CAS #:				
12.916	633470	71.9302987	28	0		0	81
Naphthalene, decahydro-, trans-			CAS #: 493-02-7				
13.022	402669	45.7229252	18	98	NBS75K.L	65957	81
Straight-chain Alkane			CAS #:				
13.224	1856279	210.779836	81	0		0	81
Unknown			CAS #:				
13.393	292932	33.2623270	13	0		0	81
Unknown			CAS #:				
13.446	403470	45.8138785	18	0		0	81
Branched Alkane			CAS #:				
13.595	206587	23.4578822	9	0		0	81
Unknown			CAS #:				
13.765	390956	44.3929181	17	0		0	81
Cyclic Alkane			CAS #:				
13.871	293824	33.3636132	13	0		0	81
Unknown			CAS #:				
13.913	345239	39.2917686	15	0		0	81
Benzene, 1-ethyl-3,5-dimethyl-			CAS #: 934-74-7				
13.977	302892	34.3932815	13	86	NBS75K.L	65554	81
Unknown			CAS #:				
14.019	324556	36.8532212	14	0		0	81
Unknown			CAS #:				
14.115	246874	28.0324570	11	0		0	81
Straight-chain Alkane			CAS #:				
14.433	580852	65.9555430	25	0		0	81
Unknown			CAS #:				
14.603	194972	22.1390029	8	0		0	81

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1883.D
Date : 30-DEC-2002 17:21
Client ID: AOC3CTCP7 Instrument: v1.i
Sample Info: HRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905
Operator: KEN
Column phase: DB-624 Column diameter: 0.25
9 Acetone Concentration: 48 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1883.D
Date : 30-DEC-2002 17:21
Client ID: AOC3CTCP7 Instrument: v1.i
Sample Info: HRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905
Operator: KEN
Column phase: DB-624 Column diameter: 0.25
14 Methylene Chloride Concentration: 0.4 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1883.D

Date : 30-DEC-2002 17:21

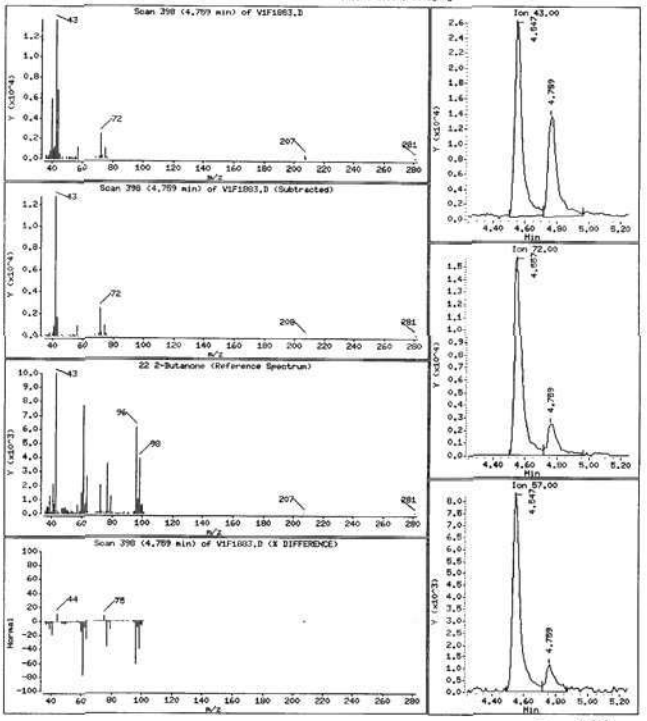
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: MRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905

Operator: KEH

Column phase: DB-624 Column diameter: 0.25

22 2-Butanone Concentration: 13 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1883.D

Date : 30-DEC-2002 17:21

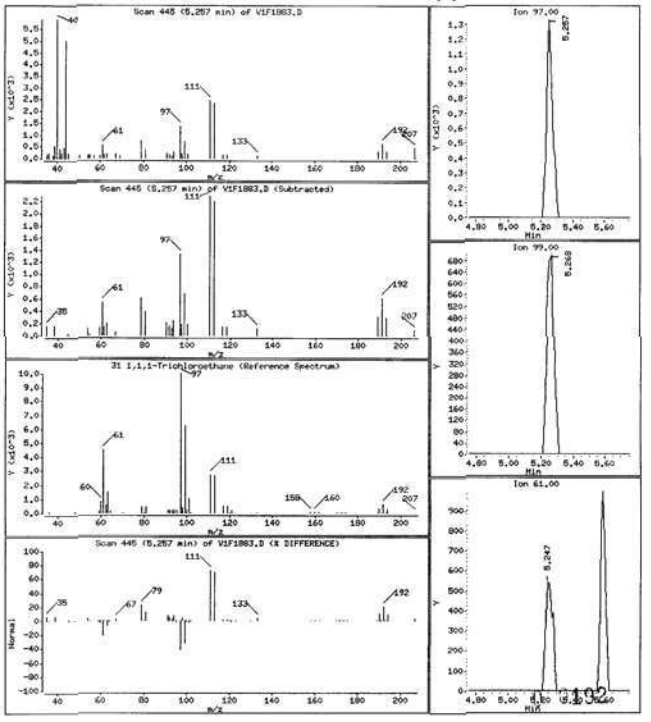
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: MRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905

Operator: KEH

Column phase: DB-624 Column diameter: 0.25

31 1,1,1-Trichloroethane Concentration: 0.5 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1883.D

Date : 30-DEC-2002 17:21

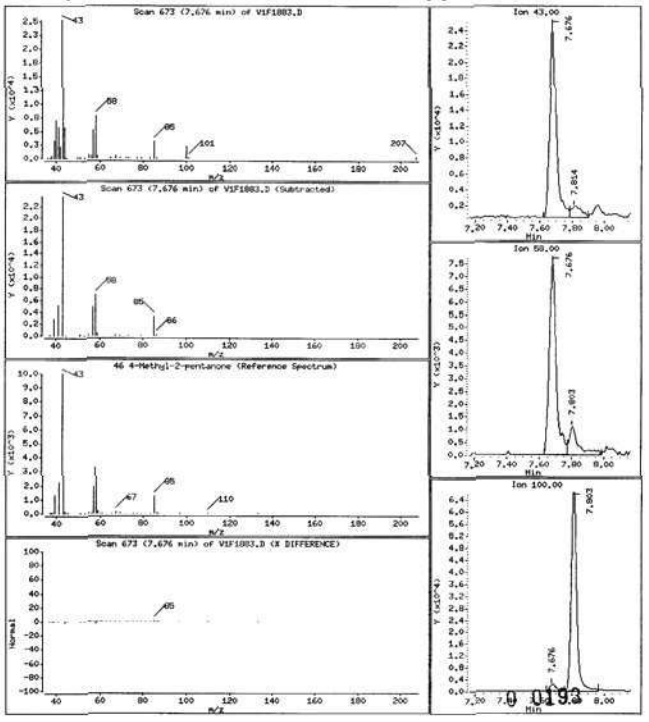
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: MRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905

Operator: KEH

Column phase: DB-624 Column diameter: 0.25

46 4-Methyl-2-pentanone Concentration: 9 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1883.D

Date : 30-DEC-2002 17:21

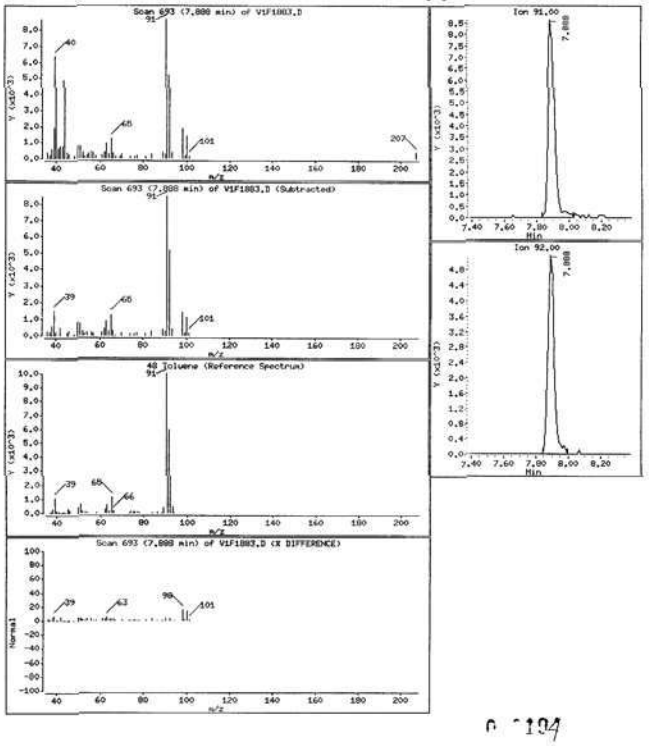
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: MRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905

Operator: KEH

Column phase: DB-624 Column diameter: 0.25

48 Toluene Concentration: 1 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1883.D

Date : 30-DEC-2002 17:21

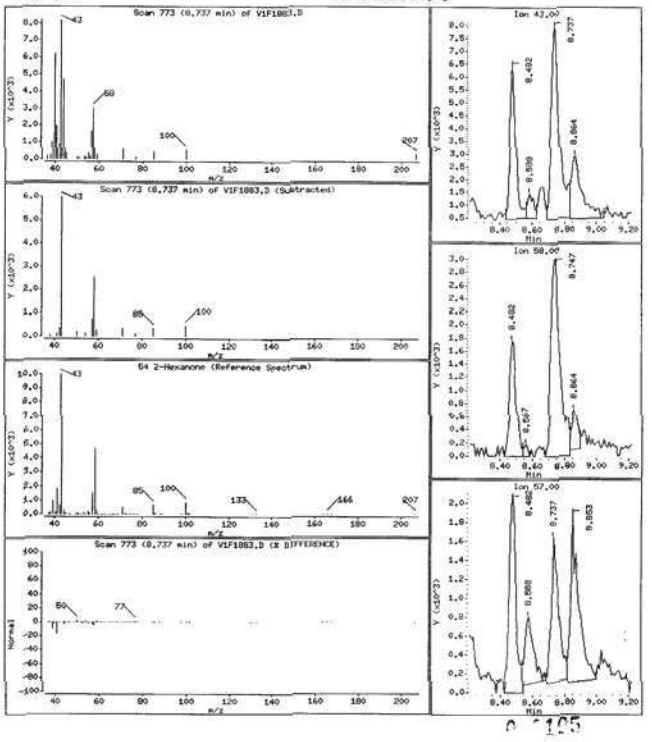
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: MRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

64 2-Hexanone Concentration: 6 ug/Kg



0 0195

Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1883.D

Date : 30-DEC-2002 17:21

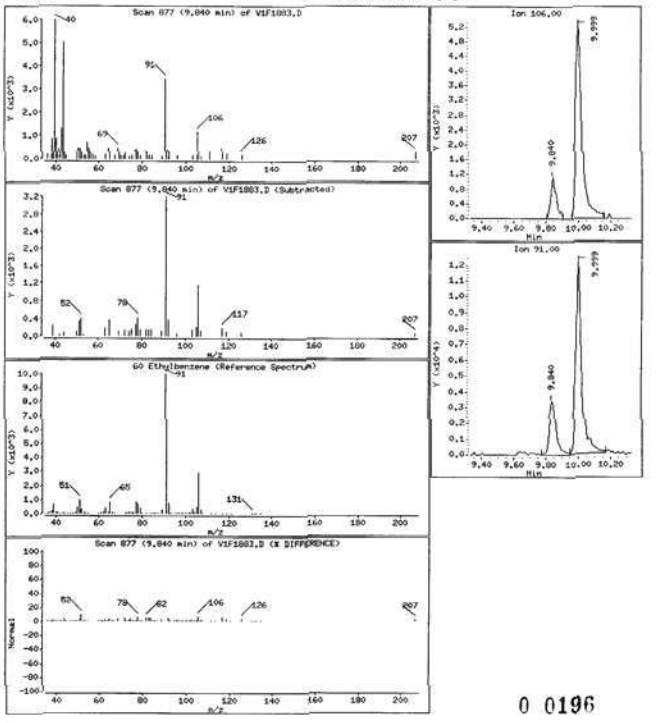
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: MRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

60 Ethylbenzene Concentration: 0.5 ug/Kg



0 0196

Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1883.D

Date : 30-DEC-2002 17:21

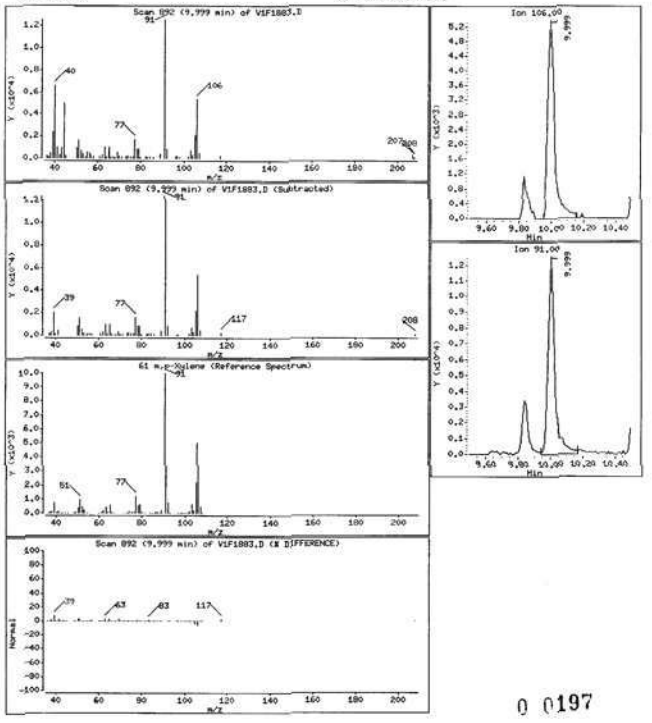
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: MRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

61 m,p-Xylene Concentration: 2 ug/Kg



0 0197

Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1883.D

Date : 30-DEC-2002 17:21

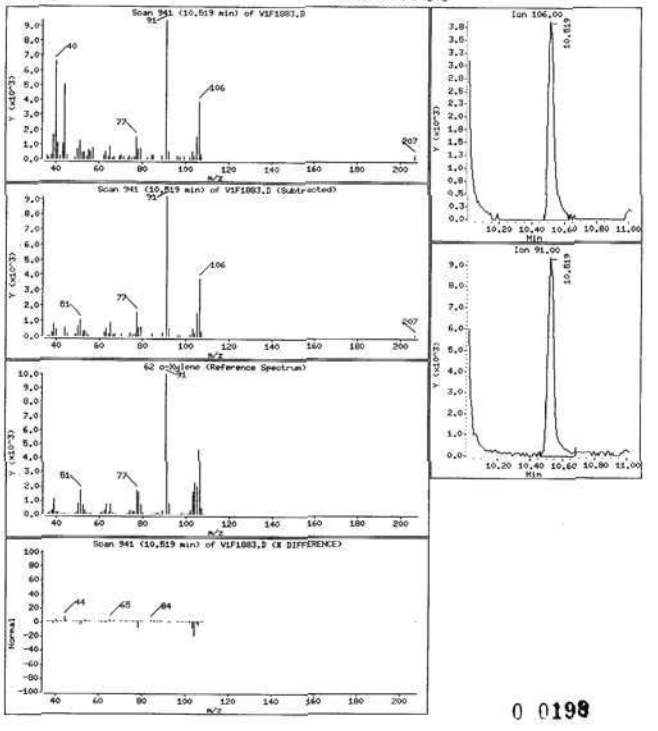
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: MRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

62 o-Xylene Concentration: 1 ug/Kg



0 0198

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1883.D

Date : 30-DEC-2002 17:21

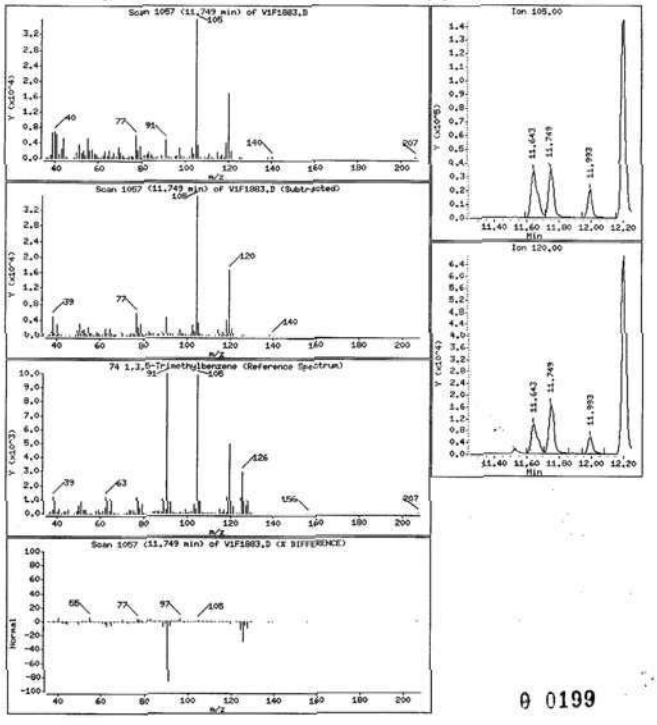
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

74 1,3,5-Trimethylbenzene Concentration: 6 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1883.D

Date : 30-DEC-2002 17:21

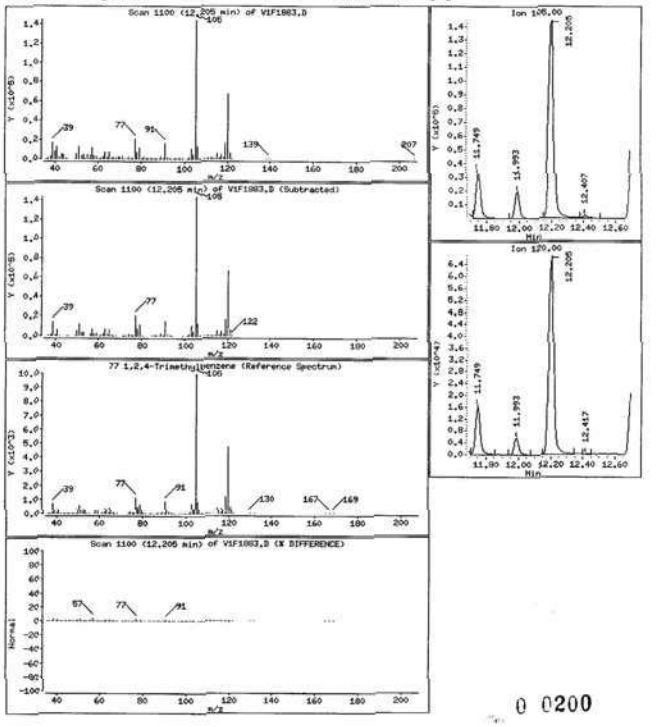
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

77 1,2,4-Trimethylbenzene Concentration: 32 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1883.D

Date : 30-DEC-2002 17:21

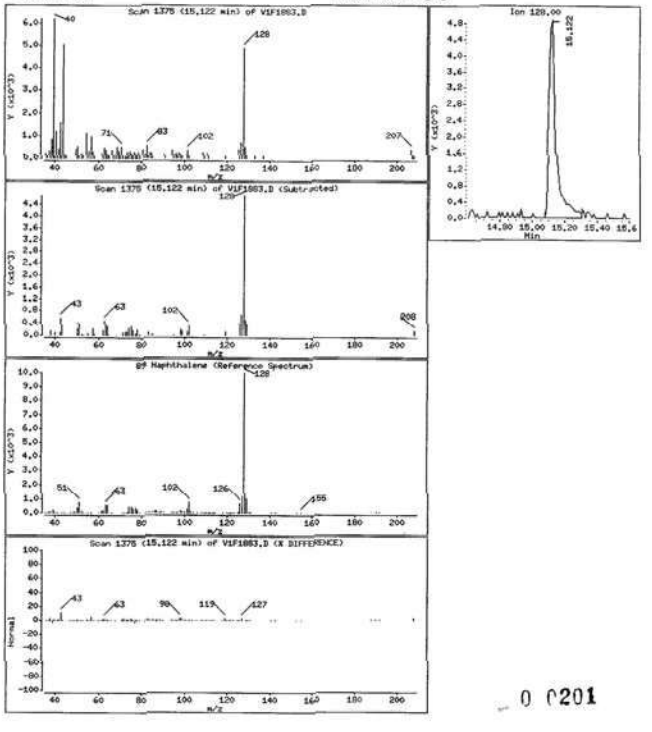
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

89 Naphthalene Concentration: 2 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1883.D

Date : 30-DEC-2002 17:21

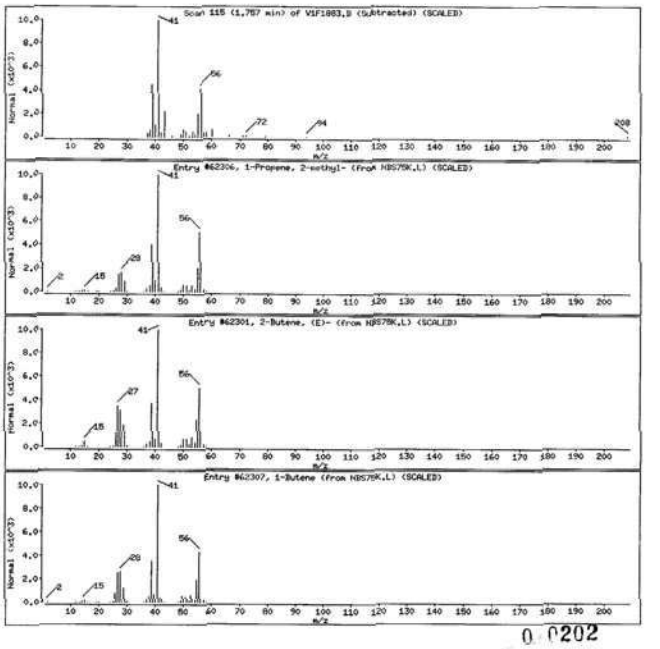
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Propene, 2-methyl-	115-11-7	NBS75K.L	62306	87	C4H8	56
2-Butene, (E)-	624-64-6	NBS75K.L	62301	72	C4H8	56
1-Butene	106-98-9	NBS75K.L	62307	72	C4H8	56



Data File: \\AVOGADRO\USERDATA\Organic\woa\w1.i\021230.B\V1F1803.D

Date : 30-DEC-2002 17:21

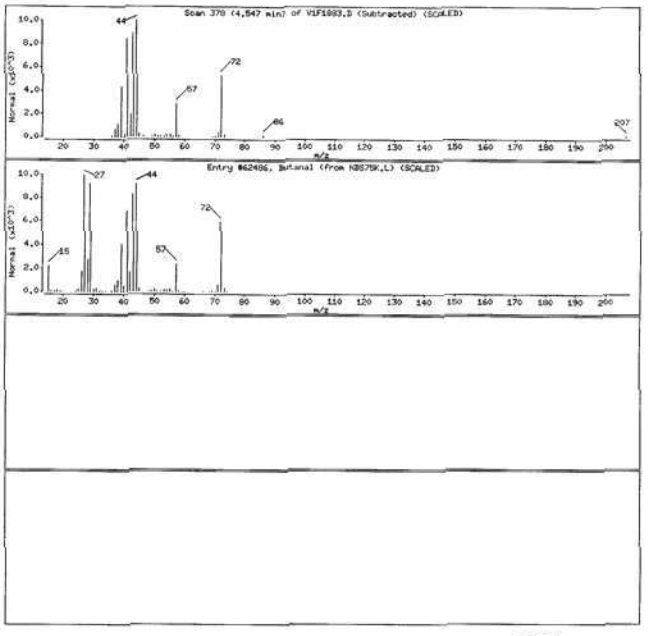
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butanal	123-72-8	NBS75K.L	62486	91	C4H80	72



Data File: \\AVOGADRO\USERDATA\Organic\woa\w1.i\021230.B\V1F1803.D

Date : 30-DEC-2002 17:21

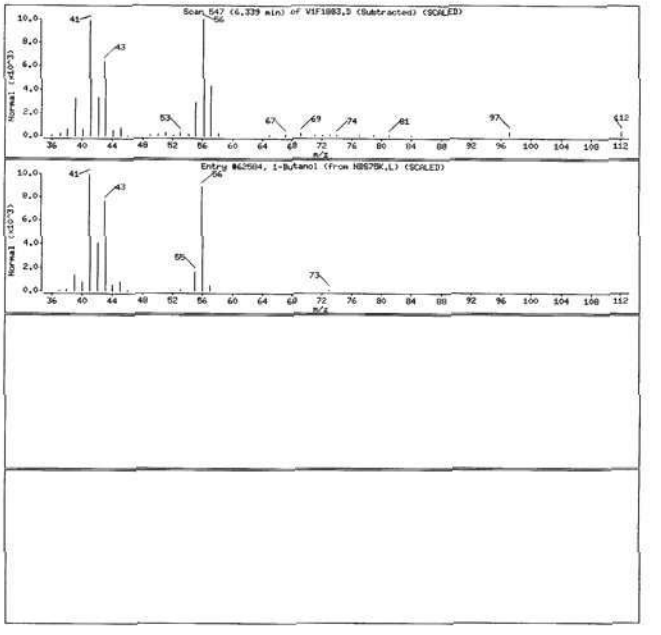
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Butanol	71-36-3	NBS75K.L	62504	64	C4H10O	74



Data File: \\AVOGADRO\USERDATA\Organic\woa\w1.i\021230.B\V1F1803.D

Date : 30-DEC-2002 17:21

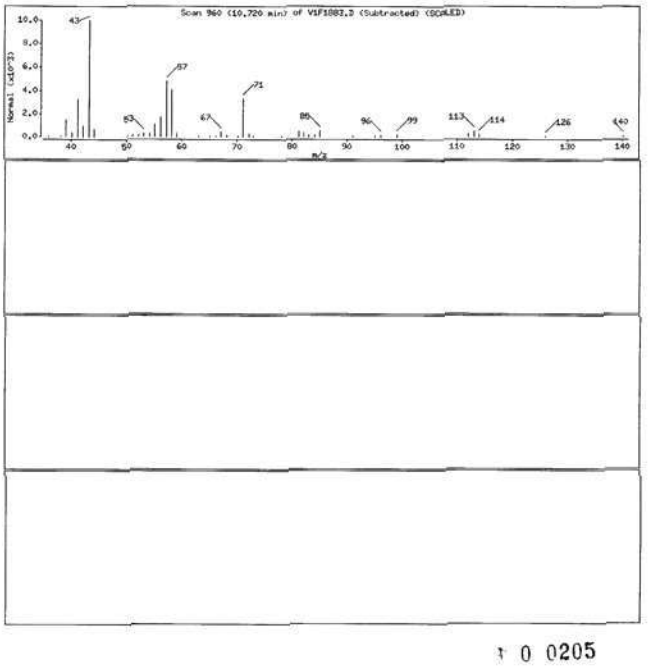
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.26

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\woa\w1.i\021230.B\V1F1803.D

Date : 30-DEC-2002 17:21

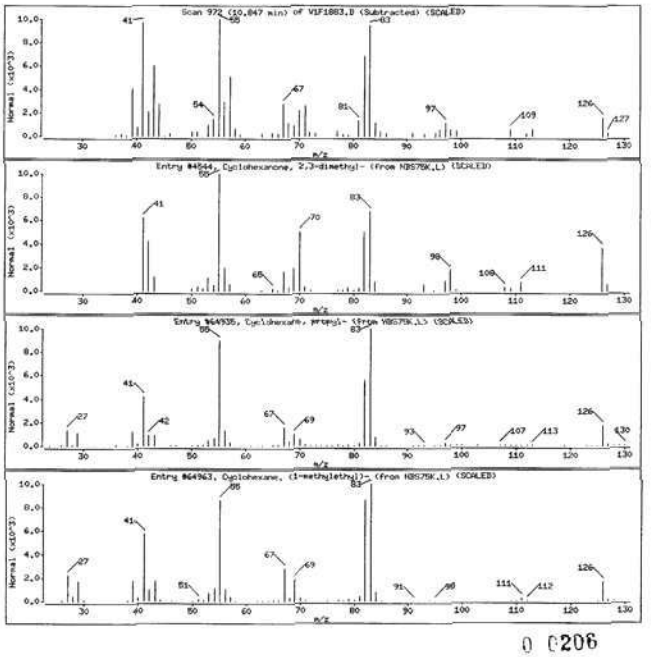
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexanone, 2,3-dimethyl-	13395-76-1	NBS75K.L	4544	68	C8H14O	126
Cyclohexane, propyl-	1678-92-8	NBS75K.L	64935	64	C9H18	126
Cyclohexane, (1-methylethyl)-	696-29-7	NBS75K.L	64963	62	C9H18	126



Data File: \\AVOGADRO\USERDATA\Organic\woa\w1.i\021230.B\V1F1883.D

Date : 30-DEC-2002 17:21

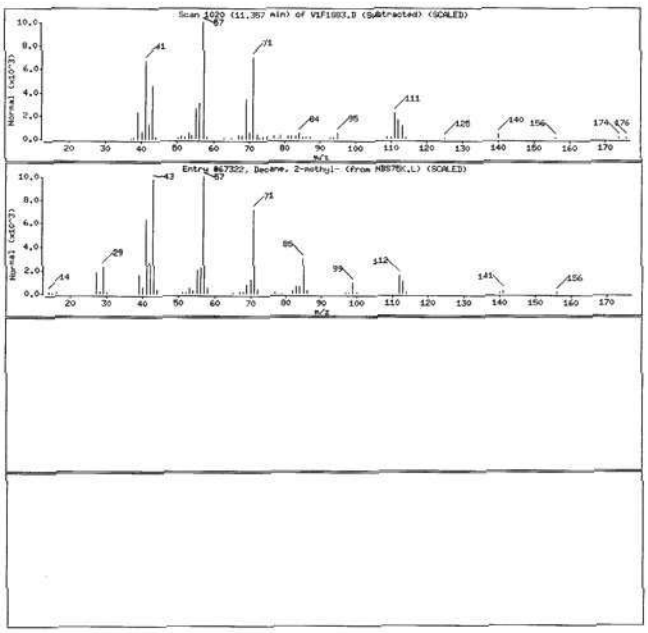
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Decane, 2-methyl-	6975-98-0	NBS75K.L	67322	64	C11H24	156



Data File: \\AVOGADRO\USERDATA\Organic\woa\w1.i\021230.B\V1F1883.D

Date : 30-DEC-2002 17:21

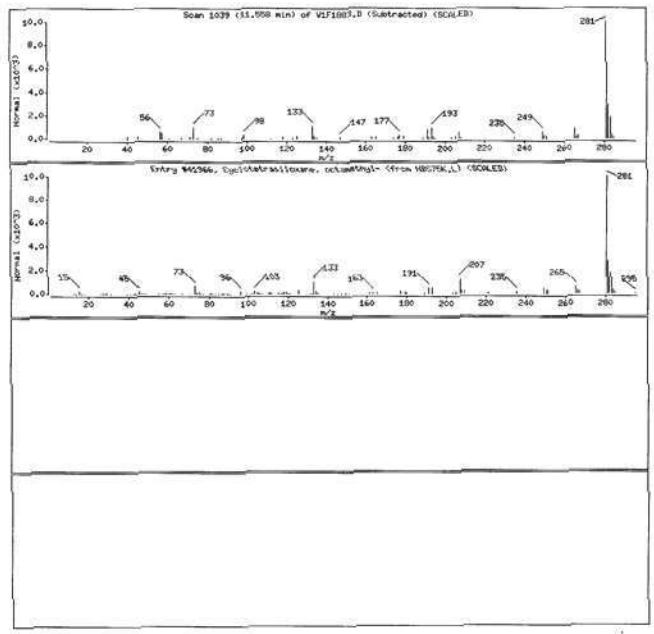
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS75K.L	41966	87	C8H24O4Si4	296



Data File: \\AVOGADRO\USERDATA\Organic\woa\w1.i\021230.B\V1F1883.D

Date : 30-DEC-2002 17:21

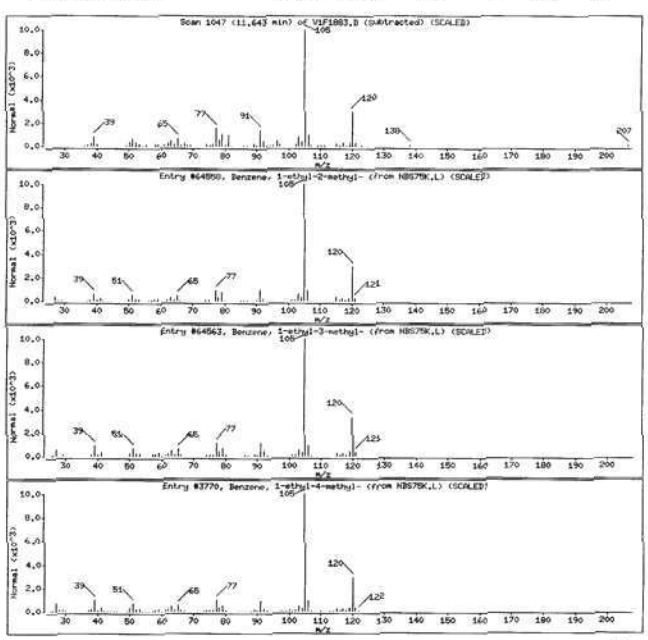
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-ethyl-2-methyl-	611-14-3	NBS75K.L	64958	94	C9H12	120
Benzene, 1-ethyl-3-methyl-	620-14-4	NBS75K.L	64563	94	C9H12	120
Benzene, 1-ethyl-4-methyl-	622-96-8	NBS75K.L	3770	93	C9H12	120



Data File: \\AVOGADRO\USERDATA\Organic\woa\w1.i\021230.B\V1F1883.D

Date : 30-DEC-2002 17:21

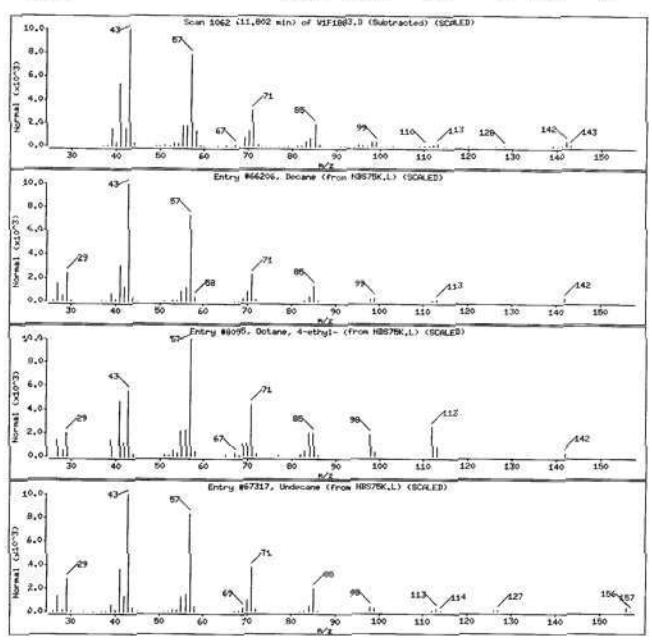
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Decane	124-18-5	NBS75K.L	66206	93	C10H22	142
Octane, 4-ethyl-	10969-86-0	NBS75K.L	8096	81	C10H22	142
Undecane	1120-21-4	NBS75K.L	67317	80	C11H24	156



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230,B\V1F1083,D

Date : 30-DEC-2002 17:21

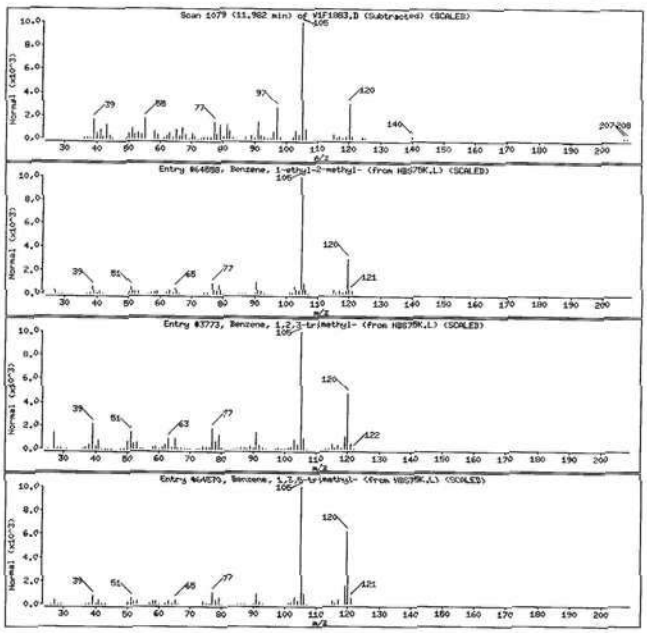
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1906-02A,AOC3CTCP7,V1812306,,A1906

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-ethyl-2-methyl-	611-14-3	NBS75K.L	64958	92	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.L	3773	83	C9H12	120
Benzene, 1,3,5-trimethyl-	108-67-8	NBS75K.L	64570	64	C9H12	120



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230,B\V1F1083,D

Date : 30-DEC-2002 17:21

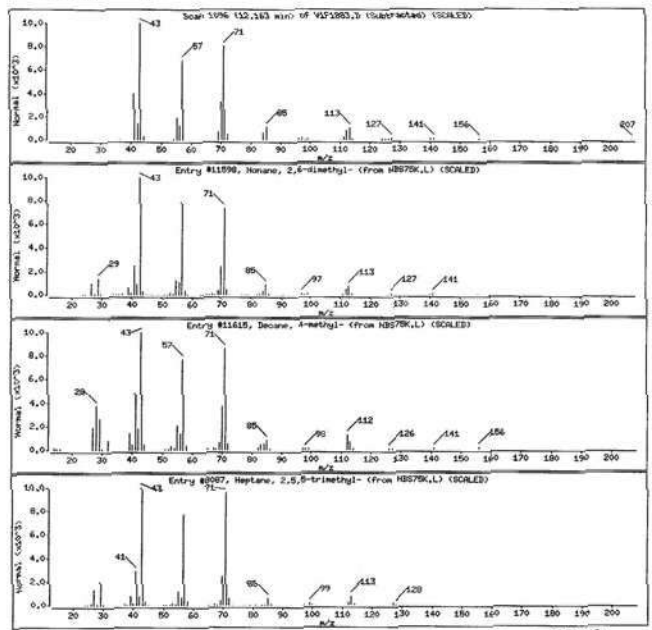
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1906-02A,AOC3CTCP7,V1812306,,A1906

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
Nonane, 2,6-dimethyl-	17302-28-2	NBS75K.L	11898	91	C11H24	156
Decane, 4-methyl-	2847-72-5	NBS75K.L	11615	83	C11H24	156
Heptane, 2,5,5-trimethyl-	1189-99-7	NBS75K.L	8087	78	C10H22	142



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230,B\V1F1083,D

Date : 30-DEC-2002 17:21

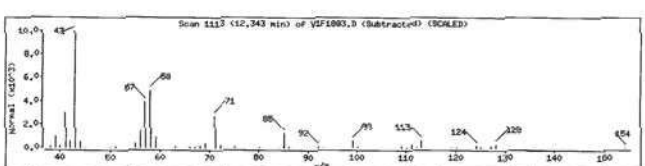
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1906-02A,AOC3CTCP7,V1812306,,A1906

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230,B\V1F1083,D

Date : 30-DEC-2002 17:21

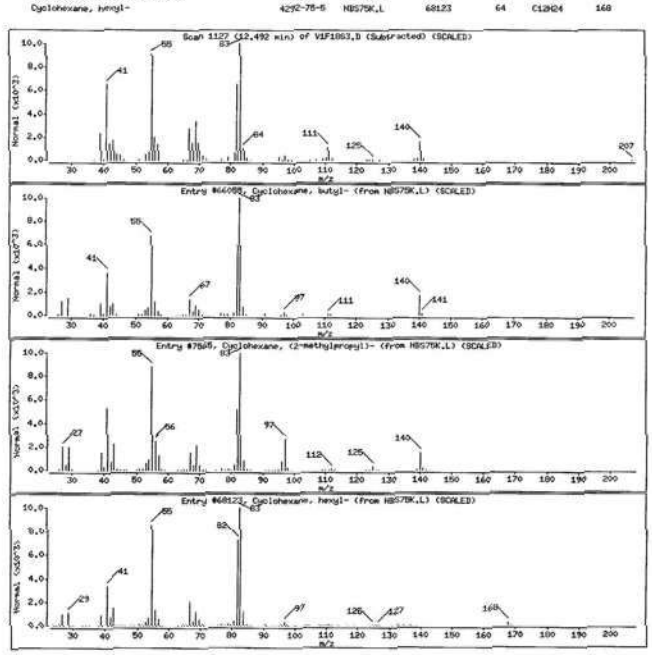
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1906-02A,AOC3CTCP7,V1812306,,A1906

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexane, butyl-	1678-93-9	NBS75K.L	64088	83	C10H20	140
Cyclohexane, (2-methylpropyl)-	1678-98-4	NBS75K.L	7568	80	C10H20	140
Cyclohexane, hexyl-	4292-75-5	NBS75K.L	68123	64	C12H24	168



Data File: \\WVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1883.D

Date : 30-DEC-2002 17:21

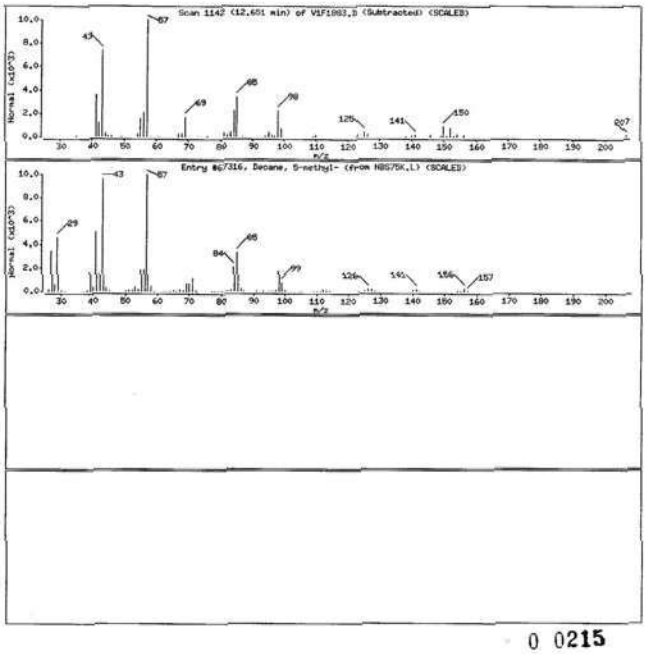
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Decane, 5-methyl-	13151-36-4	NBS75K.L	67316	64	C11H24	156



Data File: \\WVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1883.D

Date : 30-DEC-2002 17:21

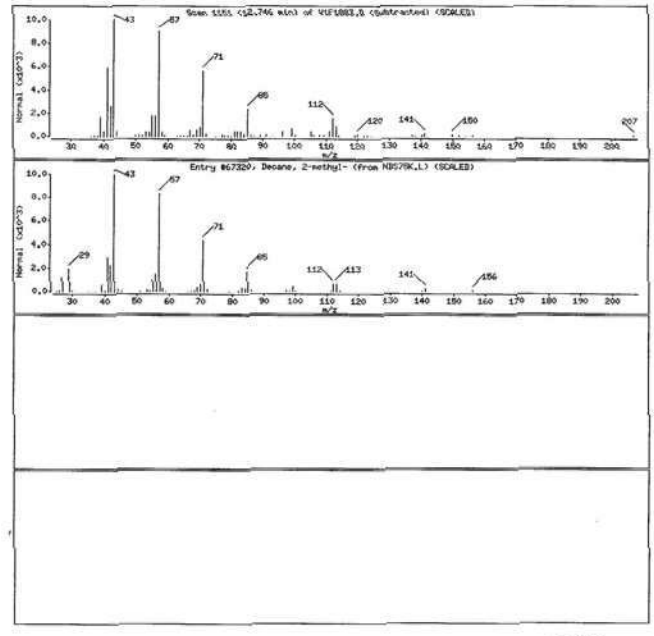
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
Decane, 2-methyl-	6975-98-0	NBS75K.L	67320	87	C11H24	156



Data File: \\WVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1883.D

Date : 30-DEC-2002 17:21

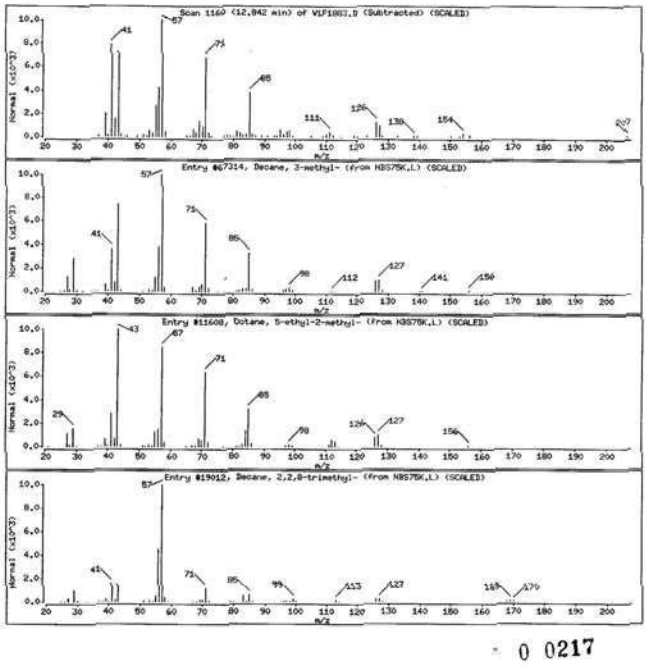
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1906

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
Decane, 3-methyl-	13151-34-3	NBS75K.L	67314	94	C11H24	156
Octane, 5-ethyl-2-methyl-	62016-18-6	NBS75K.L	11608	64	C11H24	156
Decane, 2,2,8-trimethyl-	62238-01-1	NBS75K.L	19012	64	C13H28	184



Data File: \\WVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1883.D

Date : 30-DEC-2002 17:21

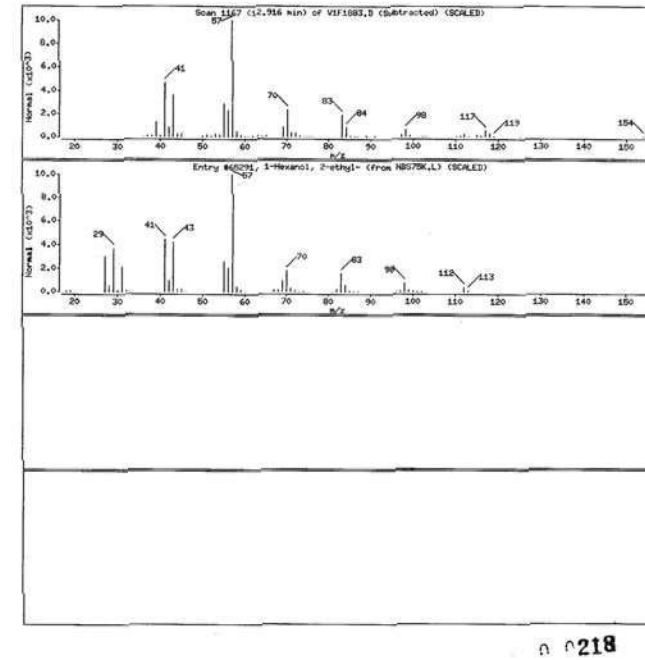
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1906

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Hexanol, 2-ethyl-	104-76-7	NBS75K.L	65291	78	C8H18O	130



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230,B\V1F1883.D

Date : 30-DEC-2002 17:21

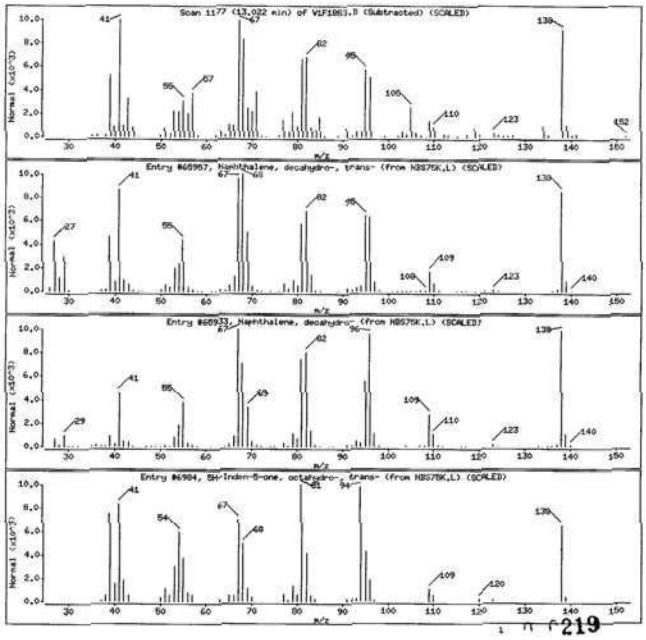
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: MRP,A1905-02A,AOC3CTCP7,V1B12306,,A1905

Operator: KEH

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, decahydro-, trans-	493-02-7	NBS75K.L	68957	98	C10H18	138
Naphthalene, decahydro-	91-17-8	NBS75K.L	68933	81	C10H18	138
5H-Inden-5-one, octahydro-, trans-	4668-81-9	NBS75K.L	6904	80	C9H14O	138



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230,B\V1F1883.D

Date : 30-DEC-2002 17:21

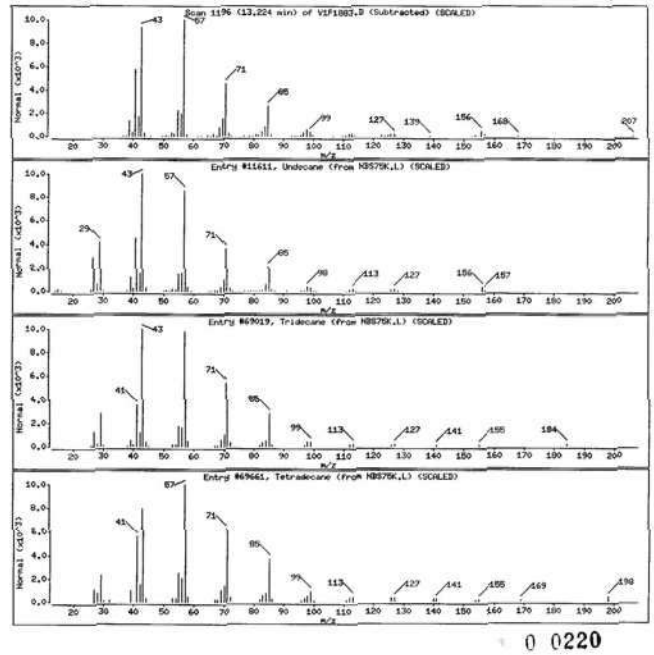
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: MRP,A1905-02A,AOC3CTCP7,V1B12306,,A1905

Operator: KEH

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Undecane	1120-21-4	NBS75K.L	11611	95	C11H24	156
Tridecane	629-50-5	NBS75K.L	69019	90	C13H28	184
Tetradecane	629-59-4	NBS75K.L	69661	90	C14H30	198



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230,B\V1F1883.D

Date : 30-DEC-2002 17:21

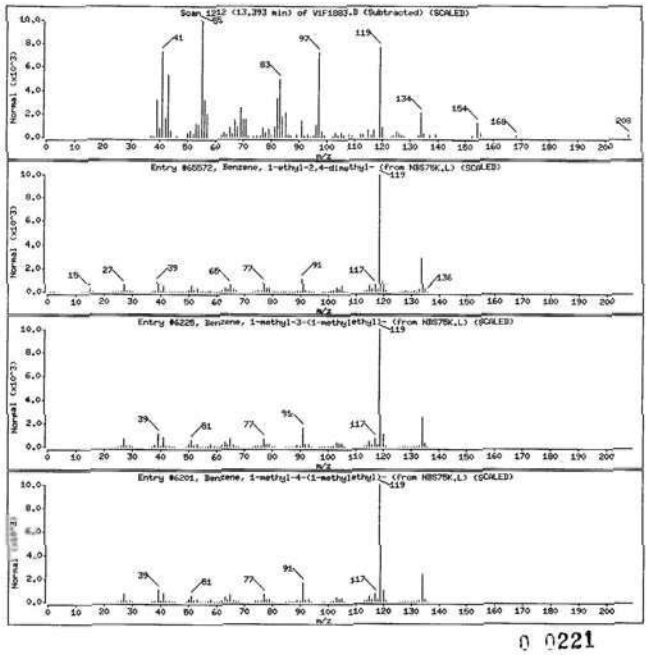
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: MRP,A1905-02A,AOC3CTCP7,V1B12306,,A1905

Operator: KEH

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	NBS75K.L	68872	74	C10H14	134
Benzene, 1-ethyl-3-(1-methylethyl)-	535-77-3	NBS75K.L	6225	74	C10H14	134
Benzene, 1-methyl-4-(1-methylethyl)-	99-87-6	NBS75K.L	6201	70	C10H14	134



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230,B\V1F1883.D

Date : 30-DEC-2002 17:21

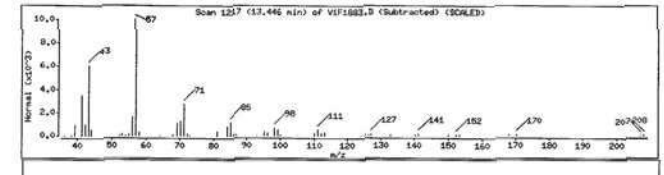
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: MRP,A1905-02A,AOC3CTCP7,V1B12306,,A1905

Operator: KEH

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1883.D

Date : 30-DEC-2002 17:21

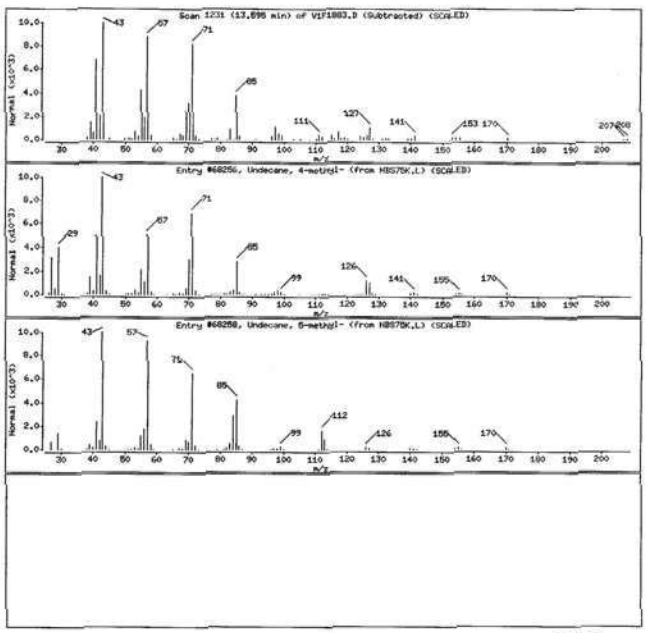
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
Undecane, 4-methyl-	2980-69-0	NBS75K.L	68256	87	C12H26	170
Undecane, 5-methyl-	1632-70-8	NBS75K.L	68258	64	C12H26	170



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1883.D

Date : 30-DEC-2002 17:21

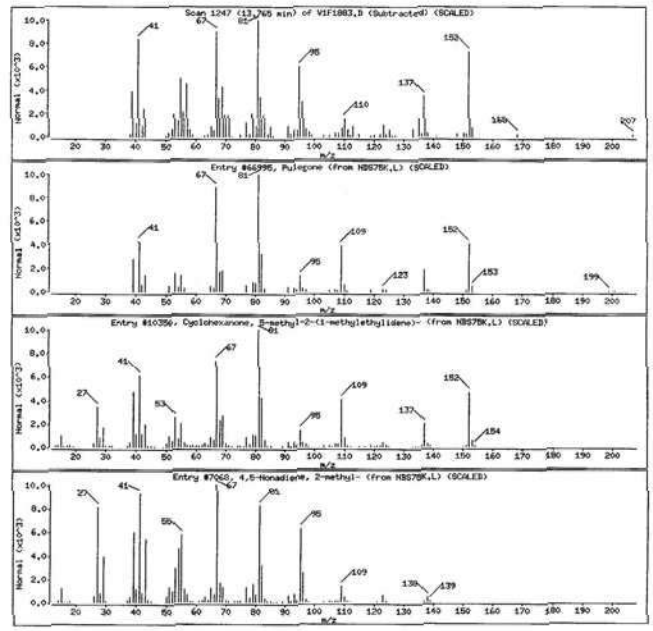
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Pulegone	89-82-7	NBS75K.L	66996	81	C10H16O	152
Cyclohexanone, 5-methyl-2-(1-methylethyl	18932-80-6	NBS75K.L	10356	68	C10H16O	152
4,6-Nonadiene, 2-methyl-	58856-32-6	NBS75K.L	7068	64	C10H18	138



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1883.D

Date : 30-DEC-2002 17:21

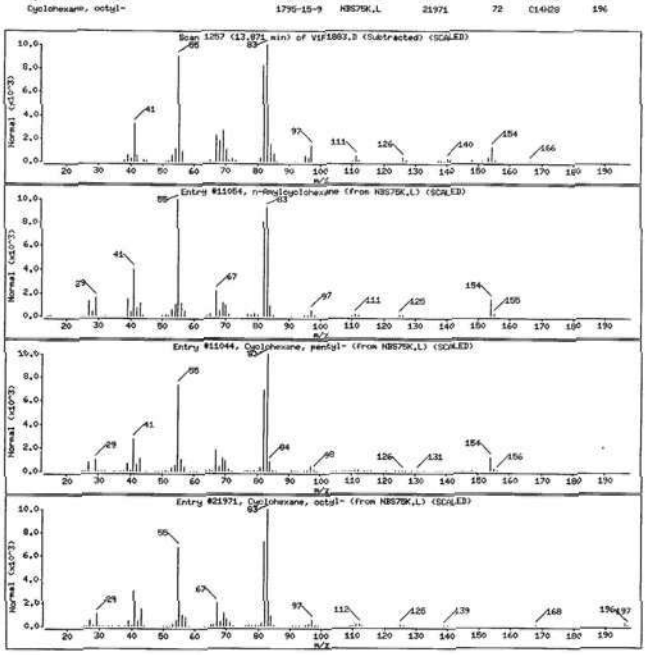
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclic Alkane						
n-Amylcyclohexane	29949-27-7	NBS75K.L	11054	87	C11H22	154
Cyclohexane, pentyl-	4292-92-6	NBS75K.L	11044	86	C11H22	154
Cyclohexane, octyl-	1795-15-9	NBS75K.L	21971	72	C14H28	196



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1883.D

Date : 30-DEC-2002 17:21

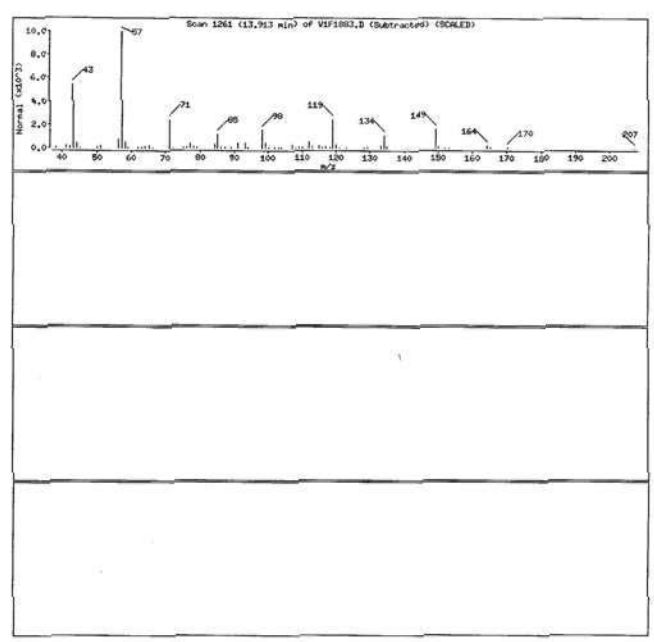
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1905-02A,AOC3CTCP7,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1803.D

Date : 30-DEC-2002 17:21

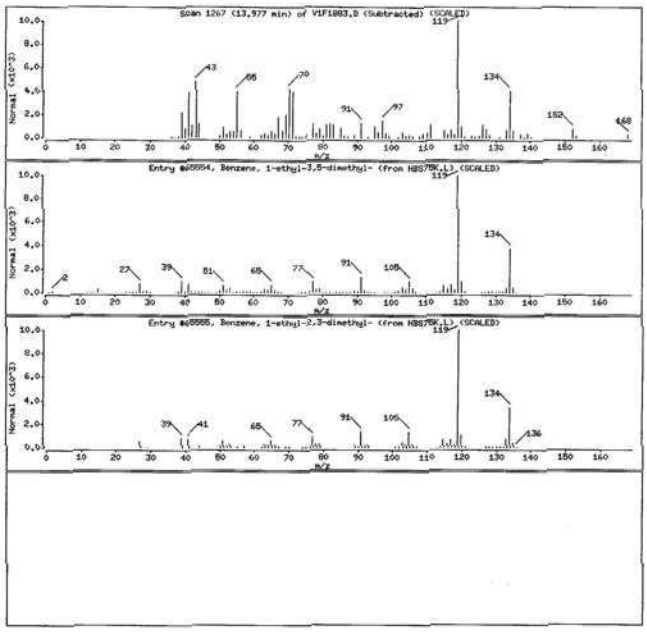
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1905-02A,AOC3CTCP7,V1B12306,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-ethyl-3,5-dimethyl-	934-74-7	NBS75K.L	65854	86	C10H14	134
Benzene, 1-ethyl-2,3-dimethyl-	933-98-2	NBS75K.L	65865	84	C10H14	134



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1803.D

Date : 30-DEC-2002 17:21

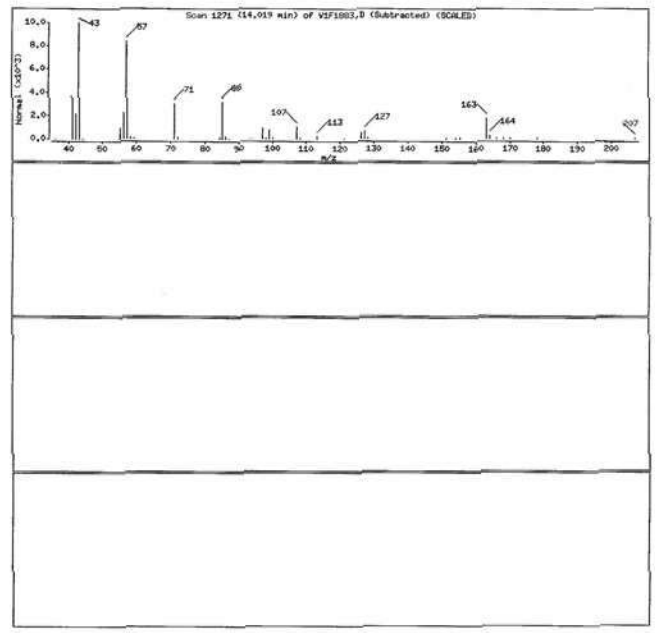
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1905-02A,AOC3CTCP7,V1B12306,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1803.D

Date : 30-DEC-2002 17:21

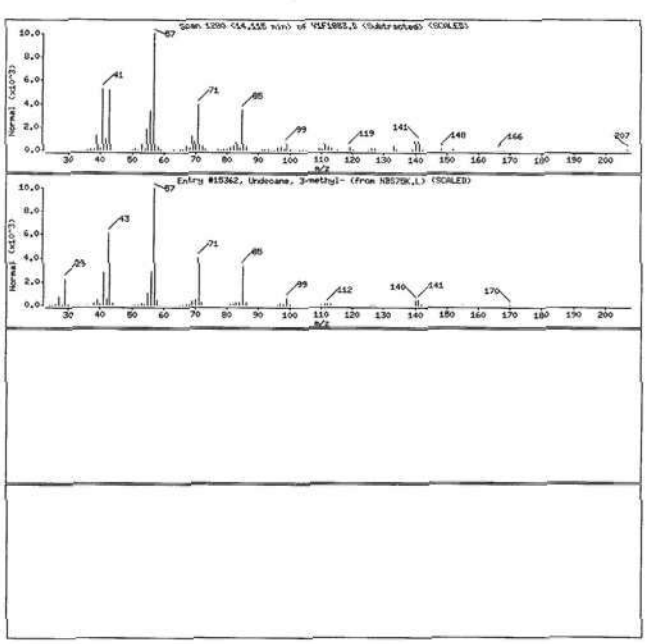
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1905-02A,AOC3CTCP7,V1B12306,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Undecane, 3-methyl-	1002-43-3	NBS75K.L	15362	72	C12H26	170



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1803.D

Date : 30-DEC-2002 17:21

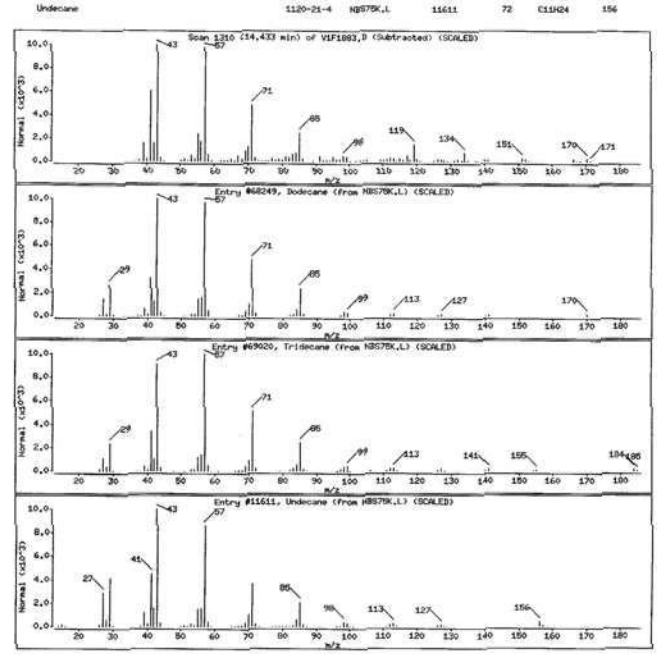
Client ID: AOC3CTCP7 Instrument: v1.i

Sample Info: HRP,A1905-02A,AOC3CTCP7,V1B12306,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Dodecane	112-40-3	NBS75K.L	68249	94	C12H26	170
Tridecane	629-50-5	NBS75K.L	69020	72	C13H28	184
Undecane	1120-21-4	NBS75K.L	11611	72	C11H24	156



Data File: \\AVOGADRO\USERDATA\Organic\voa\vd.i\021230.B\V1F1883.D

Date : 30-DEC-2002 17:21

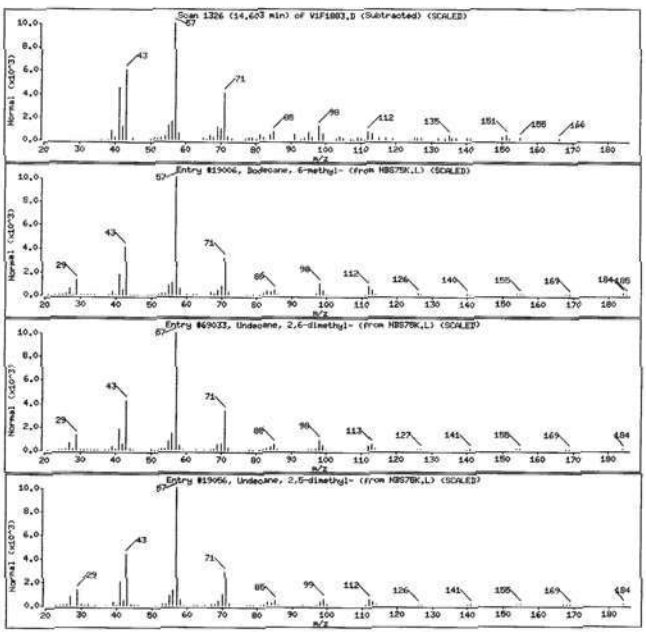
Client ID: AOC3CTCP7 Instrument: vd.i

Sample Info: MBP,A1905-02A,AOC3CTCP7,V1M1230A,,A1905

Operator: KEH

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Dodecane, 6-methyl-	6044-71-9	NBS75K.L	19006	90	C13H28	184
Undecane, 2,6-dimethyl-	17301-23-4	NBS75K.L	69033	90	C13H28	184
Undecane, 2,5-dimethyl-	17301-22-3	NBS75K.L	19056	64	C13H28	184



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC3CTCP7RE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-02ARE

Sample wt/vol: 12.0 (g/mL) G Lab File ID: V1F1905

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 0 Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	88	E
75-09-2	Methylene Chloride	1	BJ
156-60-5	trans-1,2-Dichloroethene	2	U
1634-04-4	Methyl tert-butyl ether	2	U
75-34-3	1,1-Dichloroethane	2	U
78-93-3	2-Butanone	26	
156-59-2	cis-1,2-Dichloroethene	2	U
590-20-7	2,2-Dichloropropane	2	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
109-99-9	Tetrahydrofuran	2	U
71-55-6	1,1,1-Trichloroethane	1	J
563-58-6	1,1-Dichloropropene	2	U
56-23-5	Carbon Tetrachloride	2	U
107-06-2	1,2-Dichloroethane	2	U
71-43-2	Benzene	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-pentanone	19	
108-88-3	Toluene	2	J
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
127-18-4	Tetrachloroethene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC3CTCP7RE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-02ARE

Sample wt/vol: 12.0 (g/mL) G Lab File ID: V1F1905

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 0 Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	13	
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	0.6	J
	m,p-Xylene	3	
95-47-6	o-Xylene	2	J
1330-20-7	Xylene (Total)	5	
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	10	
106-43-4	4-Chlorotoluene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	37	
135-98-8	sec-Butylbenzene	2	U
99-87-6	4-Isopropyltoluene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	1	J
87-68-3	Hexachlorobutadiene	2	U
91-20-3	Naphthalene	4	
87-61-6	1,2,3-Trichlorobenzene	1	J
544-10-5	1-Chlorohexane	2	U
107-13-1	Acrylonitrile	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: AOC3CTCP7RE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-02ARE

Sample wt/vol: 12.0 (g/mL) G Lab File ID: V1F1905

Level: (low/med) LOW Date Received: 12/23/02

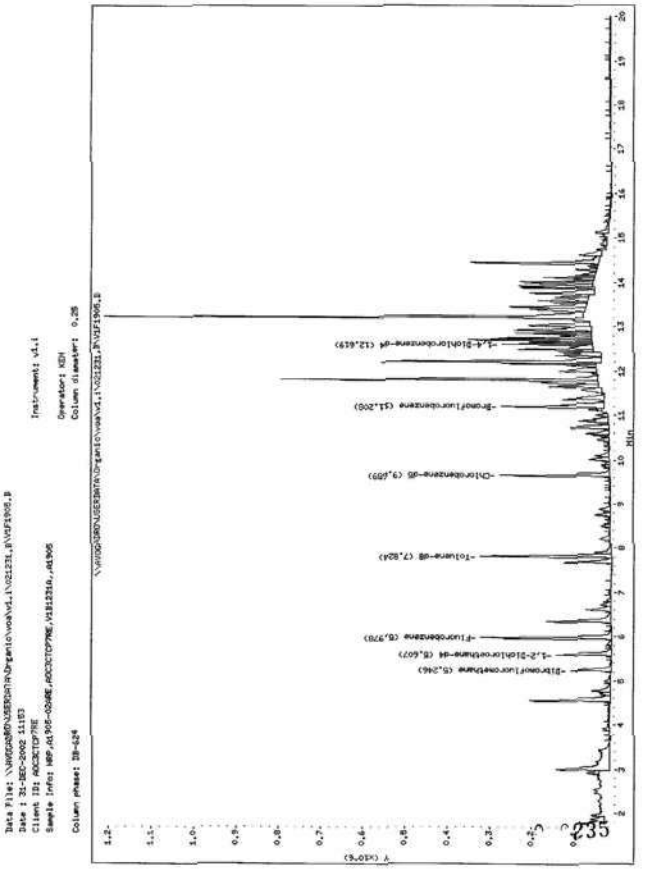
% Moisture: not dec. 0 Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	1.76	9	J
2. 123-72-8	BUTANAL	4.57	15	NJ
3.	UNKNOWN	6.35	13	J
4.	UNKNOWN	6.60	5	J
5.	UNKNOWN	10.74	11	J
6.	UNKNOWN	10.87	9	J
7.	UNKNOWN	11.38	16	J
8. 611-14-3	BENZENE, 1-ETHYL-2-METHYL-	11.66	15	NJ
9.	STRAIGHT-CHAIN ALKANE	11.81	78	J
10. 611-14-3	BENZENE, 1-ETHYL-2-METHYL-	12.00	15	NJ
11.	BRANCHED ALKANE	12.17	20	J
12.	UNKNOWN	12.36	17	J
13.	UNKNOWN	12.50	24	J
14.	UNKNOWN	12.67	16	J
15.	BRANCHED ALKANE	12.76	24	J
16.	BRANCHED ALKANE	12.86	14	J
17.	UNKNOWN	12.93	27	J
18. 493-02-7	NAPHTHALENE, DECAHYDRO-, TRA	13.04	23	NJ
19.	STRAIGHT-CHAIN ALKANE	13.23	110	J
20.	UNKNOWN	13.40	19	J
21.	STRAIGHT-CHAIN ALKANE	13.47	25	J
22.	UNKNOWN	13.61	14	J
23.	UNKNOWN	13.77	22	J
24.	CYCLIC ALKANE	13.89	16	J
25.	UNKNOWN	13.93	23	J
26.	UNKNOWN	13.99	16	J
27.	UNKNOWN	14.03	17	J
28.	UNKNOWN	14.12	11	J
29.	STRAIGHT-CHAIN ALKANE	14.45	34	J
30.	UNKNOWN	14.61	10	J



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D
Report Date: 10-Jan-2003 10:58

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D
Lab Smp Id: A1905-02ARE Client Smp ID: AOC3CTCP7RE
Inj Date : 31-DEC-2002 11:53
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905
Misc Info : 23-DEC-02,,,,,,12.0
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\v18260H.m
Meth Date : 10-Jan-2003 10:58 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	12.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
9 Acetone	43	3.008	3.009	(0.503)	221879	212.361	88(A)
34 Methylene Chloride	84	3.453	3.423	(0.576)	9555	3.58025	1(a)
22 2-Butanone	43	4.769	4.753	(0.798)	89040	61.8179	26
$ 30 Dibromofluoromethane	113	5.248	5.236	(0.878)	69642	37.8171	16
31 1,1,1-Trichloroethane	97	5.268	5.268	(0.881)	6850	2.72454	1(a)
$ 35 1,2-Dichloroethane-d4	102	5.607	5.597	(0.938)	19173	44.2213	18
* 38 Fluorobenzene	96	5.978	5.979	(1.000)	331527	50.0000	
46 4-Methyl-2-pentanone	43	7.686	7.676	(1.286)	124208	45.4673	19
$ 47 Toluene-d8	98	7.824	7.814	(0.810)	249922	51.0026	21
48 Toluene	91	7.909	7.899	(1.323)	29338	3.77412	2(a)
54 2-Hexanone	43	8.747	8.726	(0.906)	47892	21.1040	33
* 57 Chlorobenzene-d5	117	9.659	9.648	(1.000)	189694	50.0000	
60 Ethylbenzene	106	9.861	9.851	(1.021)	3127	1.53675	0.6(aQ)
61 m,p-Xylene	106	10.020	10.010	(1.037)	19232	6.99434	3
62 o-Xylene	106	10.540	10.530	(1.091)	11917	4.41603	2(a)

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D
Report Date: 10-Jan-2003 10:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
$ 68 Bromofluorobenzene	95	11.208	11.198	(1.160)	86854	39.9052	17
74 1,3,5-Trimethylbenzene	105	11.770	11.760	(0.533)	78188	22.9502	10
77 1,2,4-Trimethylbenzene	105	12.216	12.206	(0.968)	303454	89.2464	37
* 81 1,4-Dichlorobenzene-d4	152	12.619	12.609	(1.000)	67523	50.0000	
M 63 Xylene (Total)	106				31049	11.4104	5
87 1,2,4-Trichlorobenzene	180	14.878	14.858	(1.179)	3379	2.61826	1(a)
89 Naphthalene	128	15.133	15.112	(1.199)	32702	10.2149	4
90 1,2,3-Trichlorobenzene	180	15.398	15.377	(1.220)	4301	3.47635	1(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

1/10/03

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D
Report Date: 10-Jan-2003 10:58

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D
Lab Smp Id: A1905-02ARE Client Smp ID: AOC3CTCP7RE
Inj Date : 31-DEC-2002 11:53
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905
Misc Info : 23-DEC-02,,,,,,12.0
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\v18260H.m
Meth Date : 10-Jan-2003 10:58 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	12.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

ISTD	RT	AREA	AMOUNT
* 38 Fluorobenzene	5.978	796656	50.000
* 57 Chlorobenzene-d5	9.659	618428	50.000
* 81 1,4-Dichlorobenzene-d4	12.619	434778	50.000

RT	AREA	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown			CAS #:				
1.756	332613	20.8881243	9	Q		0	38

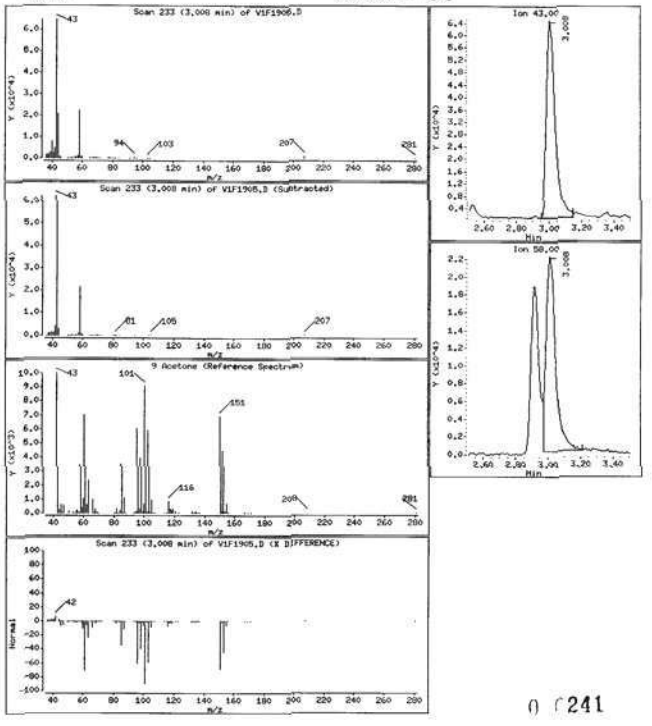
Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D
Report Date: 10-Jan-2003 10:58

RT	AREA	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CFND #
Butanal			CAS #: 123-72-8				
4.567	592470	37.1848075	15	91	NBS75K.L	62486	38
Unknown			CAS #:				
6.350	501986	31.5685149	13	0		0	38
Unknown			CAS #:				
6.606	196943	12.3606048	5	0		0	38
Unknown			CAS #:				
10.741	319575	25.8376885	11	0		0	57
Unknown			CAS #:				
10.868	270857	21.8988306	9	0		0	57
Unknown			CAS #:				
11.378	334034	38.4143172	16	0		0	81
Benzene, 1-ethyl-2-methyl-			CAS #: 611-14-3				
11.664	305668	35.1521926	15	94	NBS75K.L	64558	81
Straight-chain Alkane			CAS #:				
11.813	1621610	186.487127	78	0		0	81
Benzene, 1-ethyl-2-methyl-			CAS #: 611-14-3				
12.003	305053	35.0813519	15	92	NBS75K.L	64558	81
Branched Alkane			CAS #:				
12.173	419258	48.2151611	20	0		0	81
Unknown			CAS #:				
12.364	350812	40.3438076	17	0		0	81
Unknown			CAS #:				
12.502	493476	56.7503426	24	0		0	81
Unknown			CAS #:				
12.672	342431	39.3799824	16	0		0	81
Branched Alkane			CAS #:				
12.767	506778	58.2800878	24	0		0	81
Branched Alkane			CAS #:				
12.863	282300	32.4648441	14	0		0	81

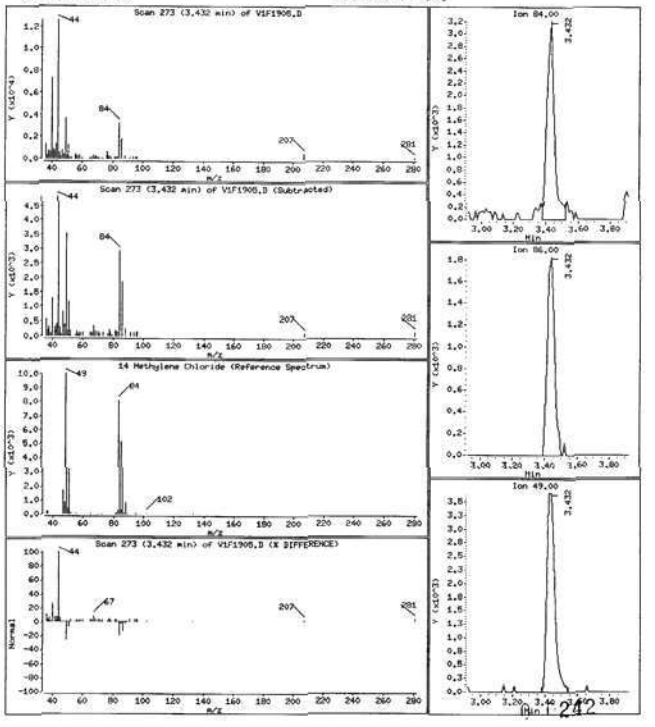
Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D
Report Date: 10-Jan-2003 10:58

RT	AREA	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CFND #
Unknown			CAS #:				
12.926	564505	64.9187631	27	0		0	81
Naphthalene, decahydro-, trans-			CAS #: 493-02-7				
13.043	473031	54.3979916	23	98	NBS75K.L	7158	81
Straight-chain Alkane			CAS #:				
13.234	2294449	263.884432	110	0		0	81
Unknown			CAS #:				
13.404	397297	45.6752892	19	0		0	81
Straight-chain Alkane			CAS #:				
13.447	520223	59.8262792	25	0		0	81
Unknown			CAS #:				
13.605	298589	34.3380990	14	0		0	81
Unknown			CAS #:				
13.775	471269	54.1965095	22	0		0	81
Cyclic Alkane			CAS #:				
13.892	334707	38.4917130	16	0		0	81
Unknown			CAS #:				
13.934	475929	54.7324152	23	0		0	81
Unknown			CAS #:				
13.987	331216	38.0902438	16	0		0	81
Unknown			CAS #:				
14.030	358239	41.1979217	17	0		0	81
Unknown			CAS #:				
14.125	229873	26.4356752	11	0		0	81
Straight-chain Alkane			CAS #:				
14.454	709137	81.5516194	34	0		0	81
Unknown			CAS #:				
14.613	205709	23.6567858	10	0		0	81

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D
Date : 31-DEC-2002 11:53
Client ID: AOC3CTCP7RE
Instrument: v1.i
Sample Info: VBP,961905-026RE,AOC3CTCP7RE,V1I1231A,,A1905
Operator: KEN
Column phase: DB-624
Column diameter: 0.25
9 Acetone
Concentration: 88 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D
Date : 31-DEC-2002 11:53
Client ID: AOC3CTCP7RE
Instrument: v1.i
Sample Info: VBP,961905-026RE,AOC3CTCP7RE,V1I1231A,,A1905
Operator: KEN
Column phase: DB-624
Column diameter: 0.25
14 Methylene Chloride
Concentration: 1 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

Client ID: AOC3CTCP7RE

Instrument: v1.i

Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

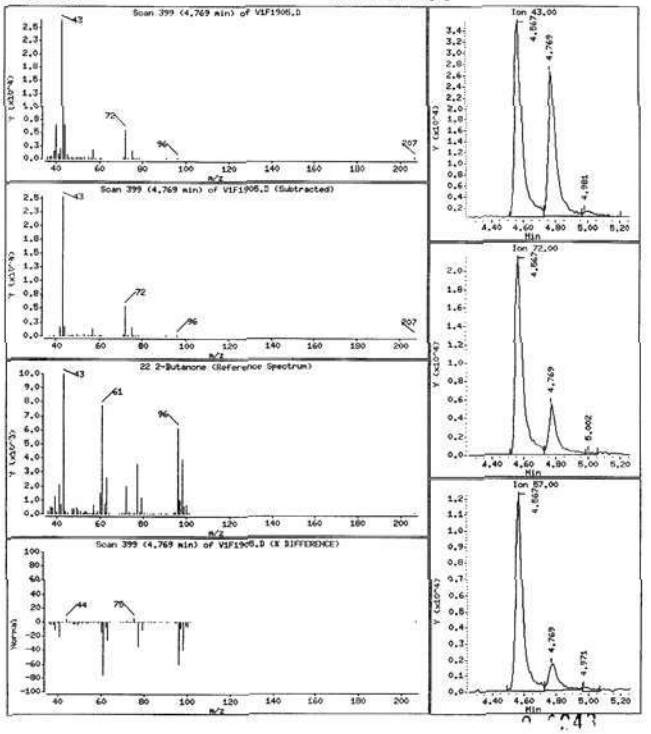
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

22 2-Butanone

Concentration: 26 ug/Kg



0 0243

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

Client ID: AOC3CTCP7RE

Instrument: v1.i

Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

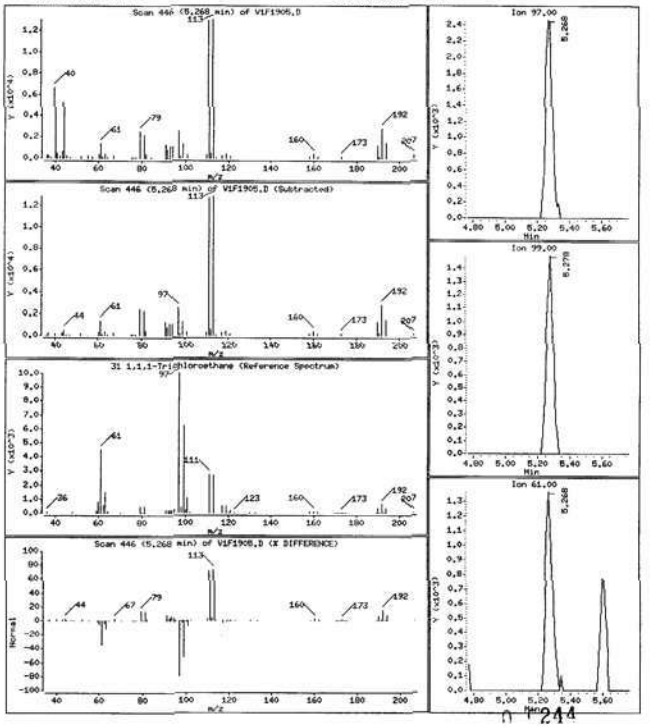
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

31 1,1,1-Trichloroethane

Concentration: 1 ug/Kg



0 0244

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

Client ID: AOC3CTCP7RE

Instrument: v1.i

Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

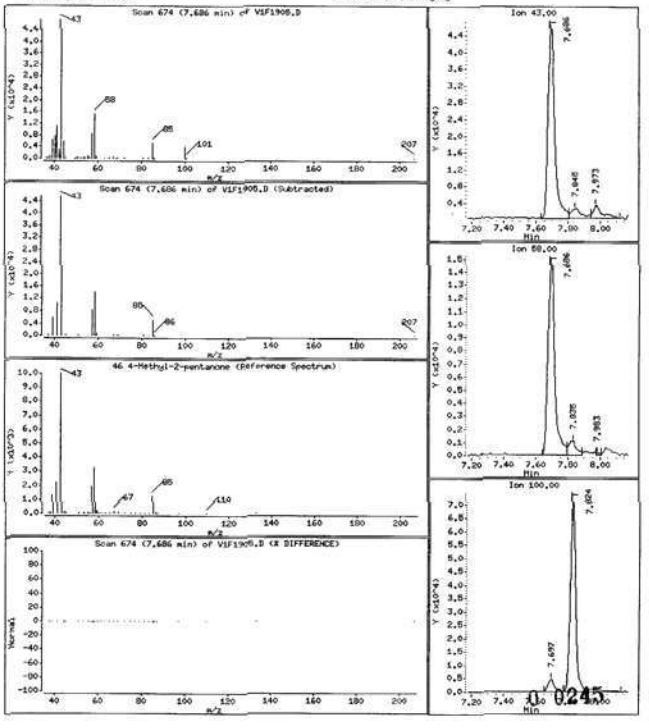
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

46 4-Methyl-2-pentanone

Concentration: 19 ug/Kg



0 0245

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

Client ID: AOC3CTCP7RE

Instrument: v1.i

Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

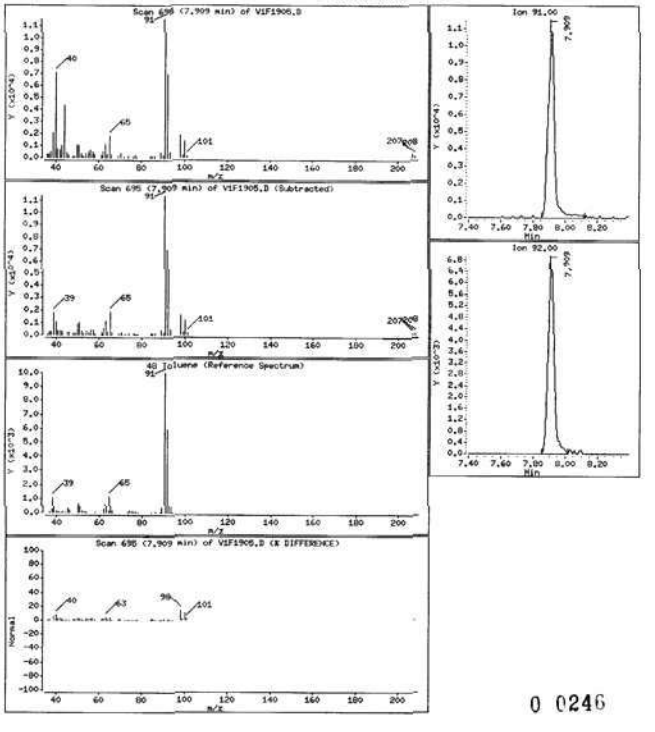
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

48 Toluene

Concentration: 2 ug/Kg



0 0246

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1_1\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

Client ID: AOC3CTCP7RE

Instrument: v1.i

Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1R1231A,,A1905

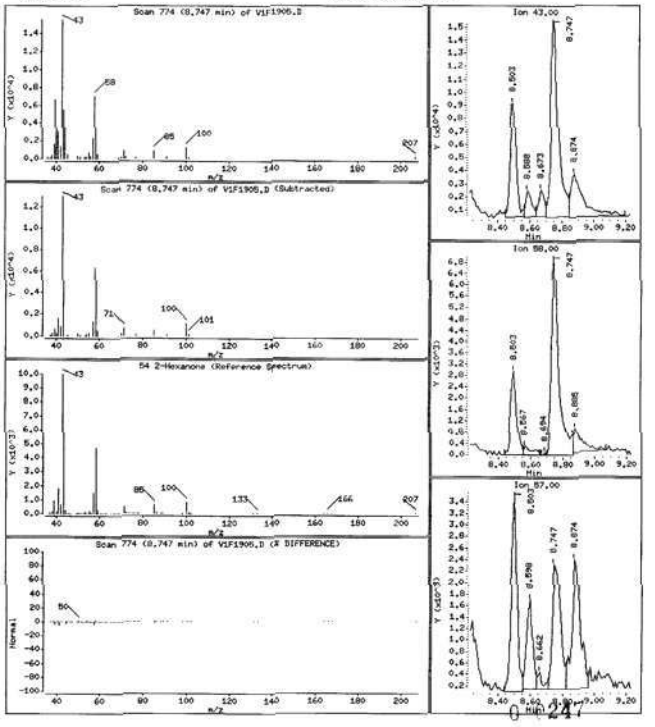
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

54 2-Hexanone

Concentration: 13 ug/Kg



0 0247

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1_1\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

Client ID: AOC3CTCP7RE

Instrument: v1.i

Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1R1231A,,A1905

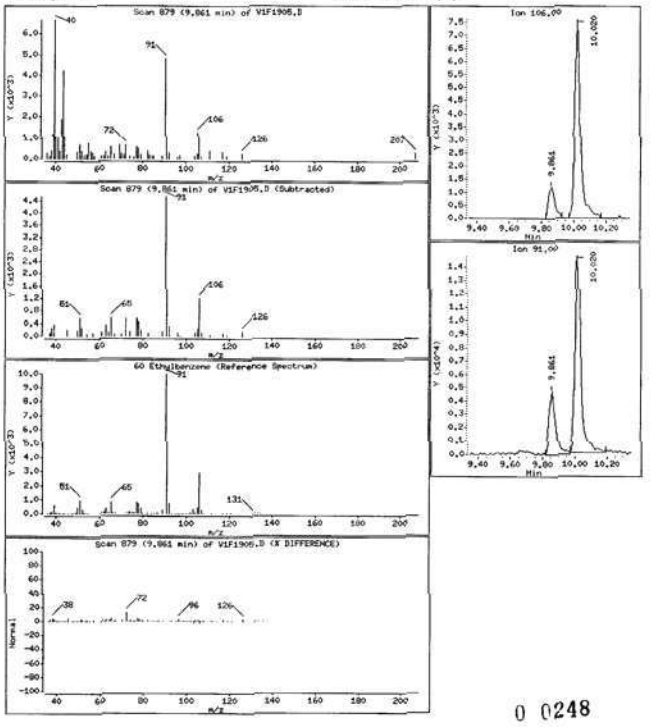
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

60 Ethylbenzene

Concentration: 0.6 ug/Kg



0 0248

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1_1\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

Client ID: AOC3CTCP7RE

Instrument: v1.i

Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1R1231A,,A1905

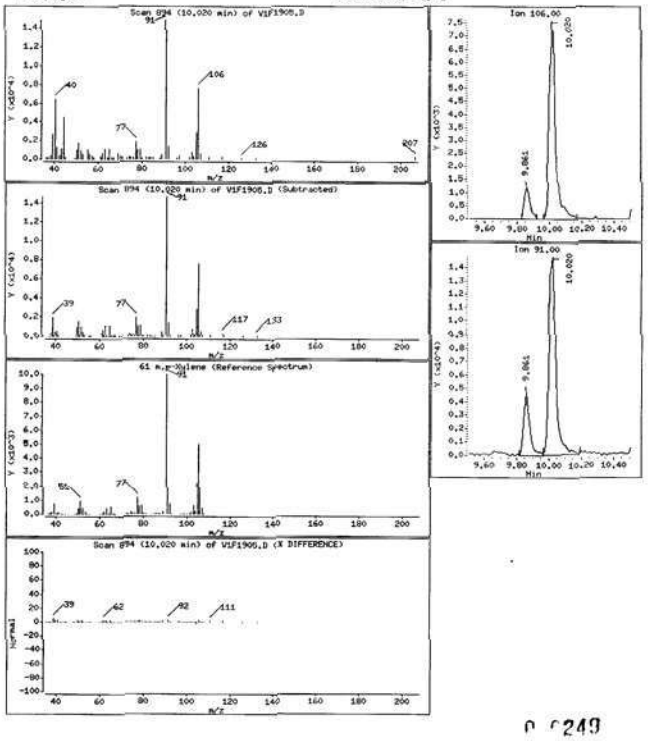
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

61 m,p-Xylene

Concentration: 3 ug/Kg



0 0249

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1_1\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

Client ID: AOC3CTCP7RE

Instrument: v1.i

Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1R1231A,,A1905

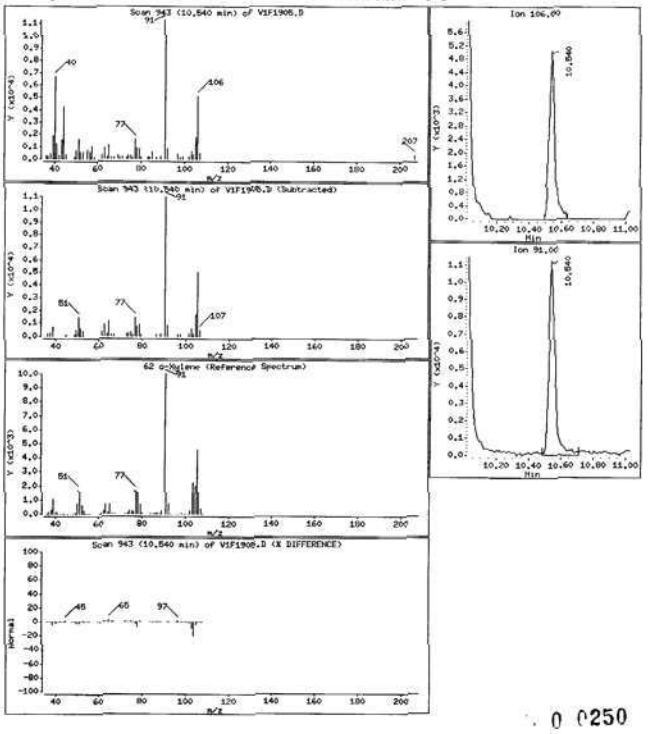
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

62 o-Xylene

Concentration: 2 ug/Kg



0 0250

Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

Client ID: AOC3CTCP7RE

Instrument: v1.i

Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1I1231A,,A1905

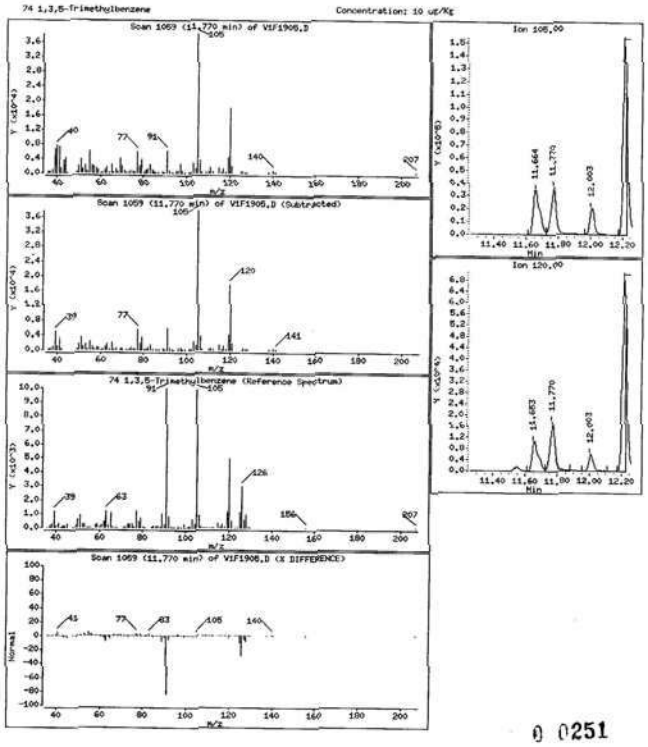
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

74 1,3,5-Trimethylbenzene

Concentration: 10 ug/Kg



0 0251

Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

Client ID: AOC3CTCP7RE

Instrument: v1.i

Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1I1231A,,A1905

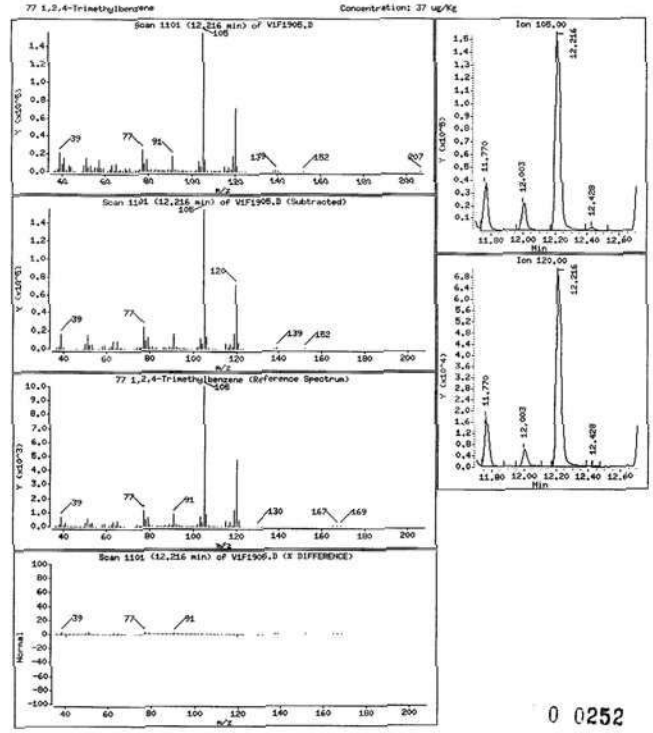
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

77 1,2,4-Trimethylbenzene

Concentration: 37 ug/Kg



0 0252

Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

Client ID: AOC3CTCP7RE

Instrument: v1.i

Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1I1231A,,A1905

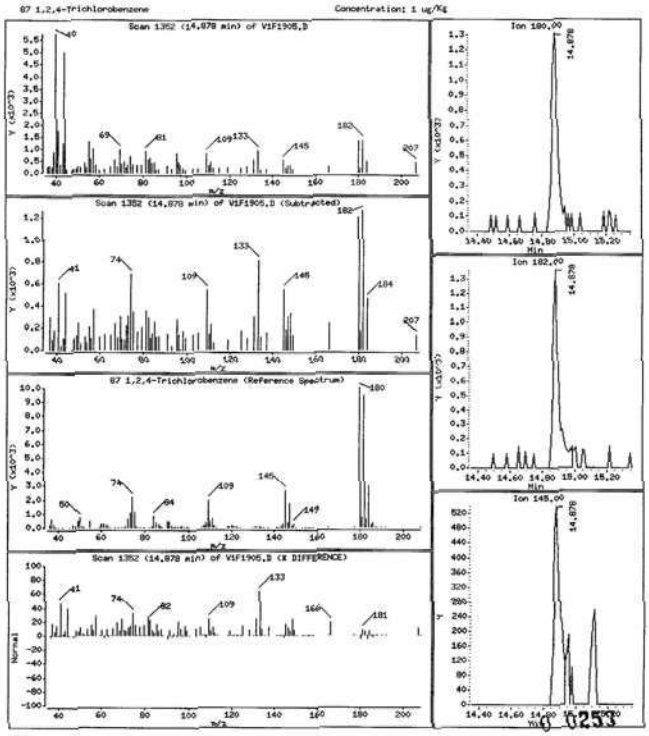
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

87 1,2,4-Trichlorobenzene

Concentration: 1 ug/Kg



0 0253

Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

Client ID: AOC3CTCP7RE

Instrument: v1.i

Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1I1231A,,A1905

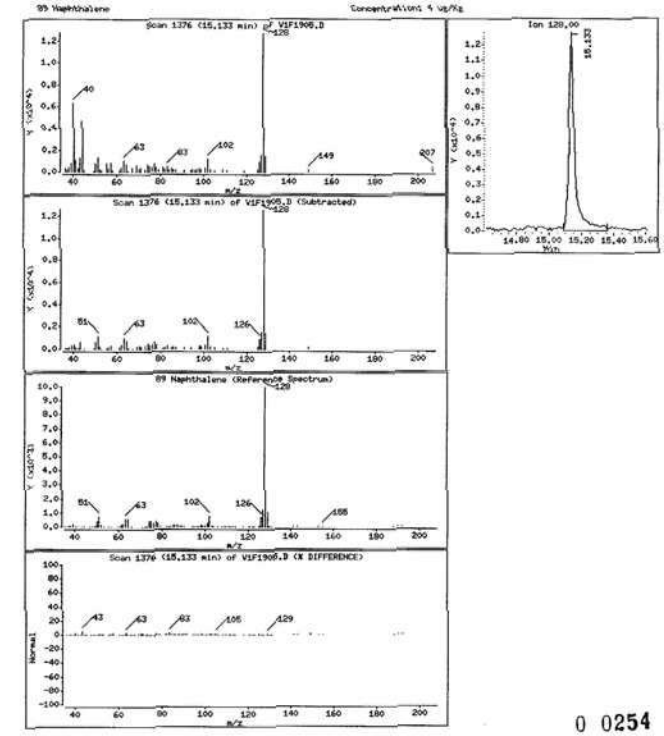
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

89 Naphthalene

Concentration: 4 ug/Kg



0 0254

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

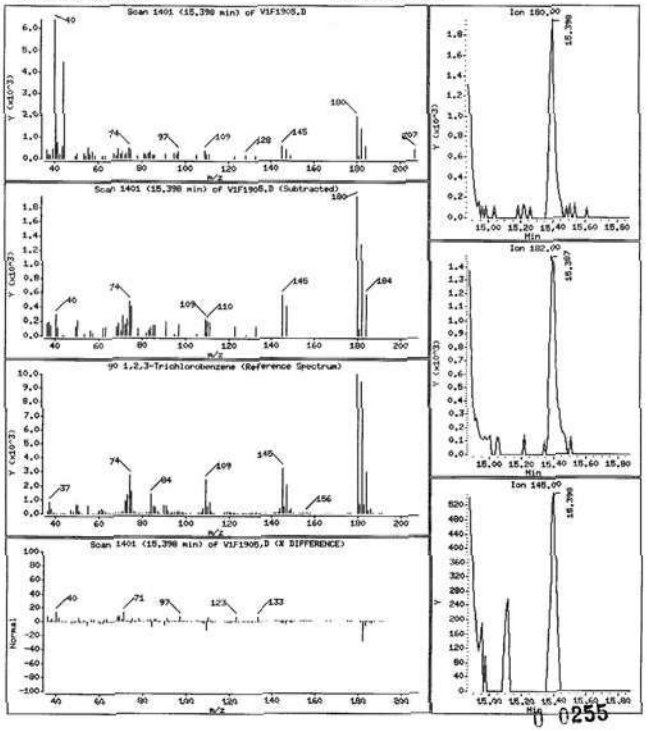
Client ID: AOC3CTCP7RE Instrument: v1.i

Sample Info: MRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

90 1,2,3-Trichlorobenzene Concentration: 1 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

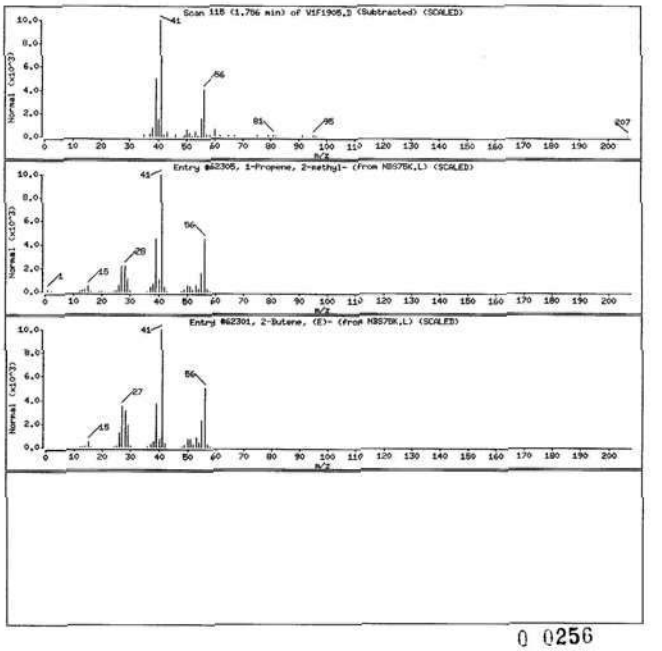
Client ID: AOC3CTCP7RE Instrument: v1.i

Sample Info: MRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Propene, 2-methyl-	115-11-7	NBS75K.L	62305	80	C4H8	56
2-Butene, (E)-	624-64-6	NBS75K.L	62301	64	C4H8	56



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

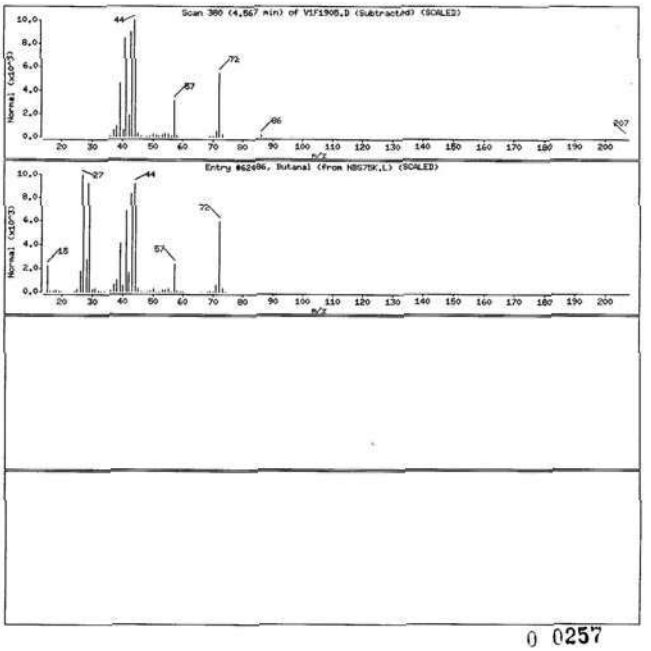
Client ID: AOC3CTCP7RE Instrument: v1.i

Sample Info: MRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butanal	123-72-8	NBS75K.L	62486	91	C4H8O	72



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

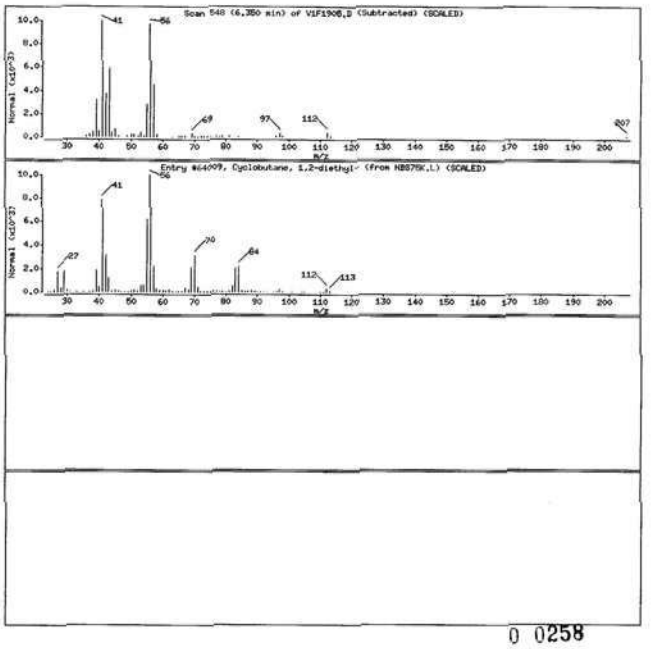
Client ID: AOC3CTCP7RE Instrument: v1.i

Sample Info: MRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclobutane, 1,2-diethyl-	61141-63-1	NBS75K.L	64009	72	C8H16	112



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

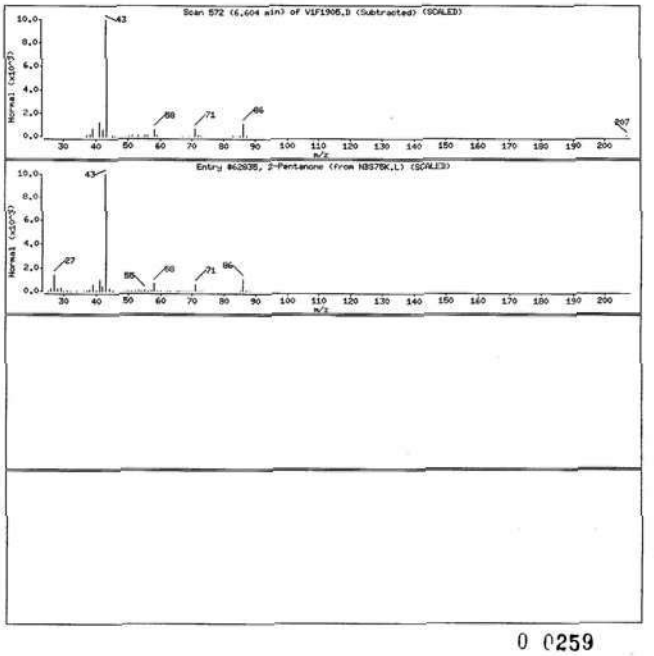
Client ID: AOC3CTCP7RE Instrument: v1.i

Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Pentanone	107-87-9	NBS75K,L	62835	72	C5H10O	86



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

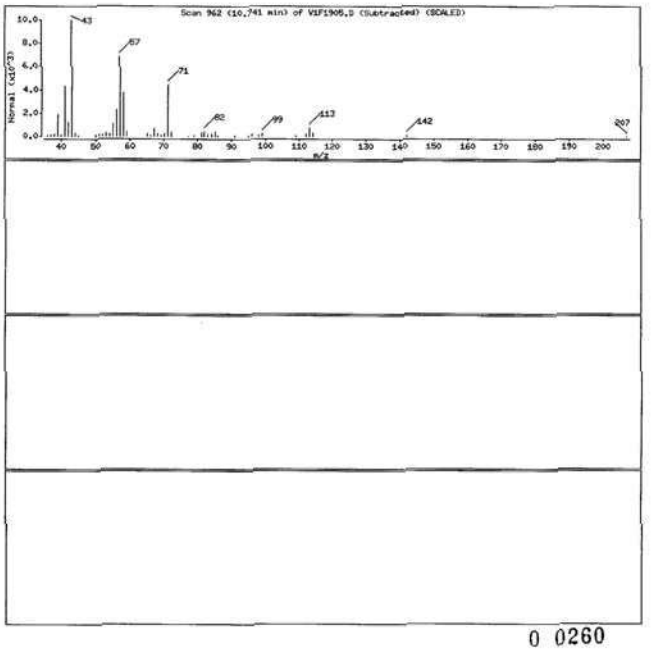
Client ID: AOC3CTCP7RE Instrument: v1.i

Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

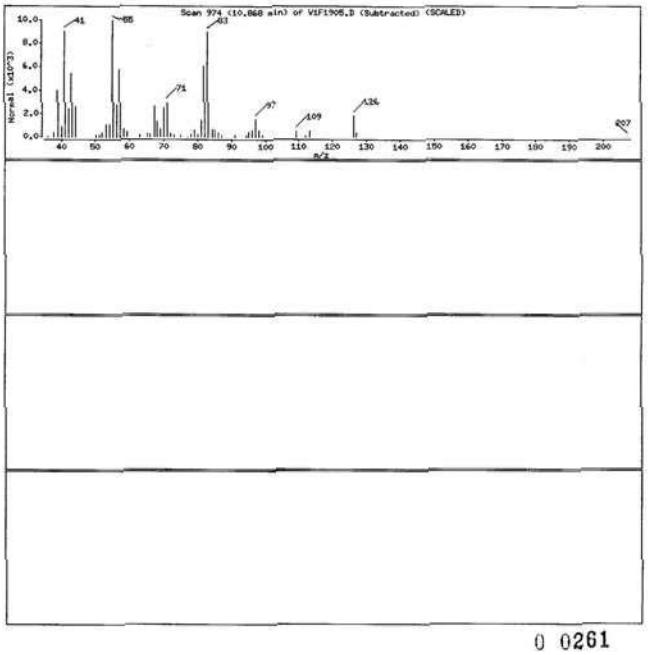
Client ID: AOC3CTCP7RE Instrument: v1.i

Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

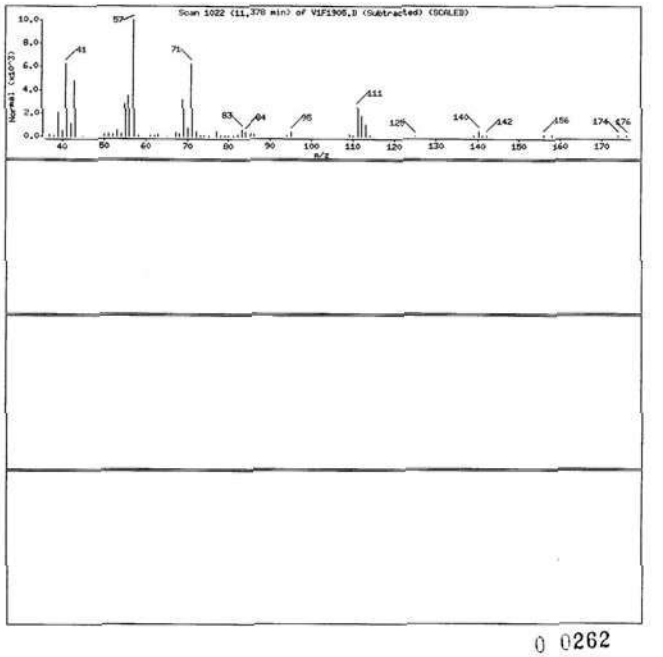
Client ID: AOC3CTCP7RE Instrument: v1.i

Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

Client ID: AOC3CTCP7RE

Instrument: v1.i

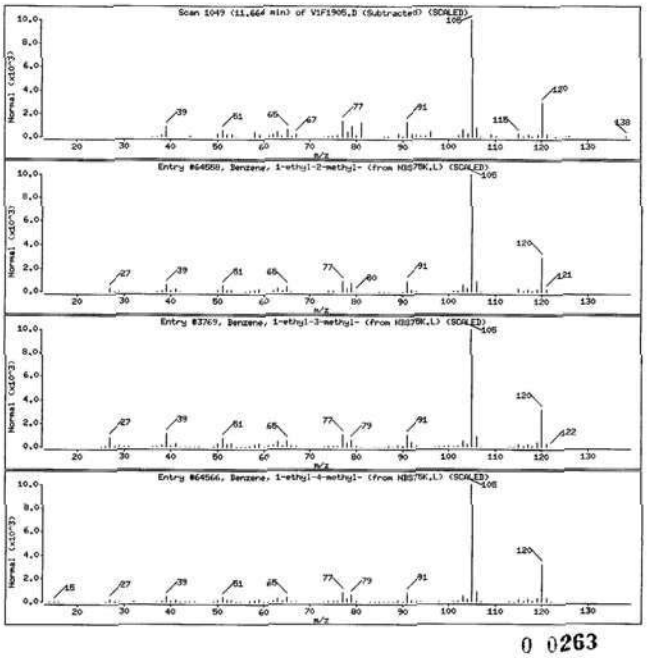
Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-ethyl-2-methyl-	611-14-3	NBS75K.L	64558	94	C9H12	120
Benzene, 1-ethyl-3-methyl-	620-14-4	NBS75K.L	3769	87	C9H12	120
Benzene, 1-ethyl-4-methyl-	622-96-8	NBS75K.L	64566	87	C9H12	120



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

Client ID: AOC3CTCP7RE

Instrument: v1.i

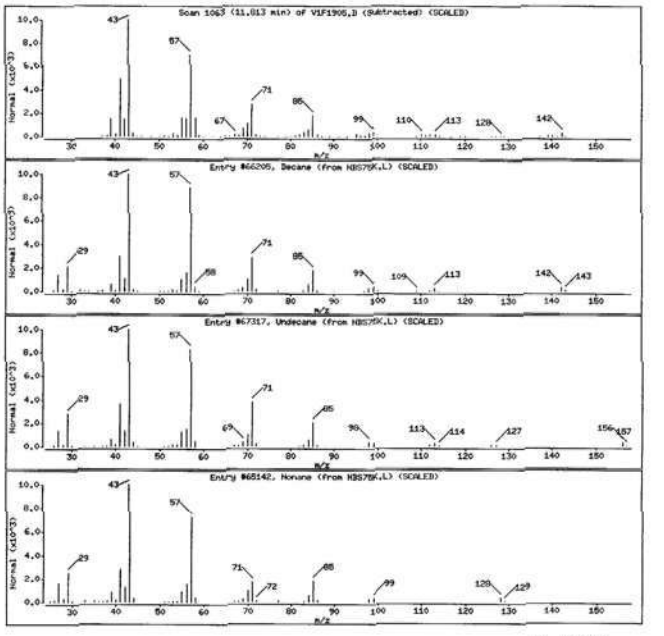
Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Decane	124-18-5	NBS75K.L	66205	93	C10H22	142
Undecane	1120-21-4	NBS75K.L	67317	80	C11H24	156
Nonane	111-84-2	NBS75K.L	65142	64	C9H20	128



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

Client ID: AOC3CTCP7RE

Instrument: v1.i

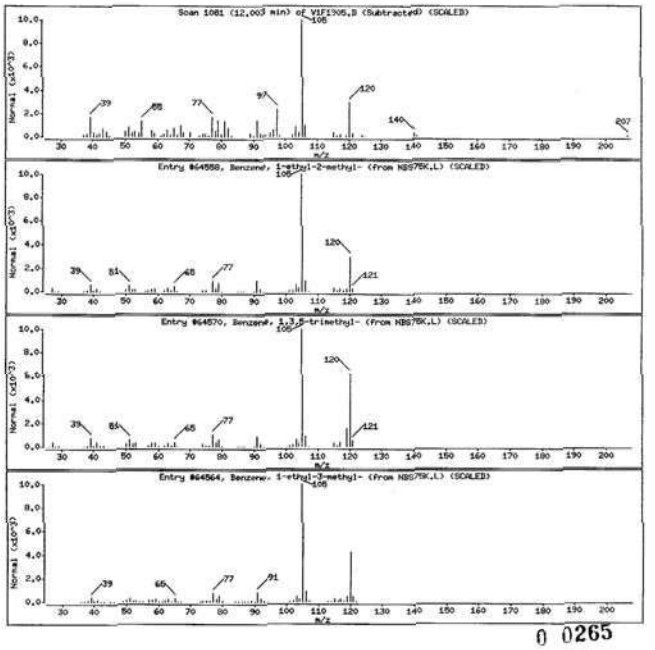
Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1-ethyl-2-methyl-	611-14-3	NBS75K.L	64558	92	C9H12	120
Benzene, 1,3,5-trimethyl-	108-67-8	NBS75K.L	64570	86	C9H12	120
Benzene, 1-ethyl-3-methyl-	620-14-4	NBS75K.L	64564	70	C9H12	120



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

Client ID: AOC3CTCP7RE

Instrument: v1.i

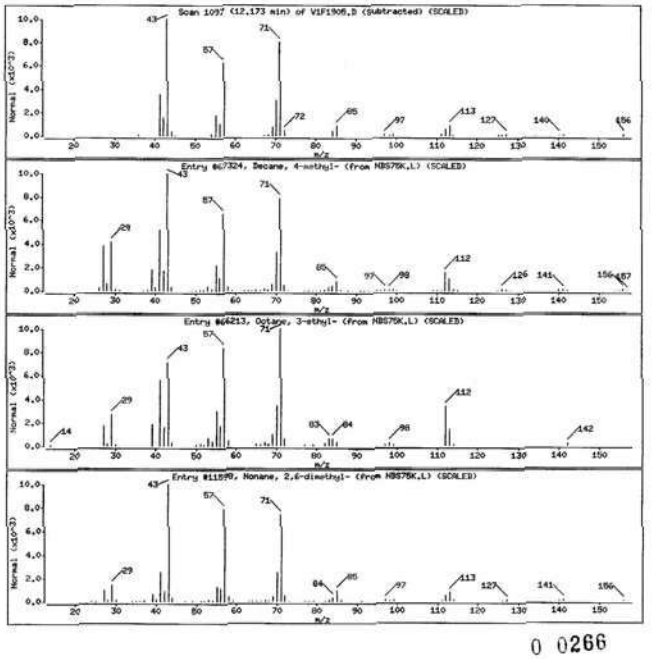
Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
Decane, 4-methyl-	2847-72-5	NBS75K.L	67324	94	C11H24	156
Octane, 3-ethyl-	5881-17-4	NBS75K.L	66213	83	C10H22	142
Nonane, 2,6-dimethyl-	17302-28-2	NBS75K.L	11590	83	C11H24	156



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

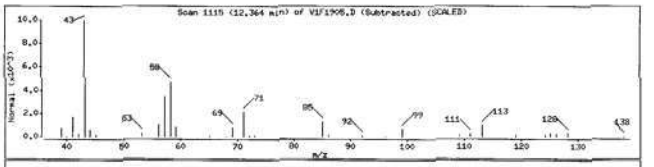
Client ID: AOC3CTCP7RE Instrument: v1.1

Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

Operator: KEH

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Unknown			0	0		0



0 0267

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

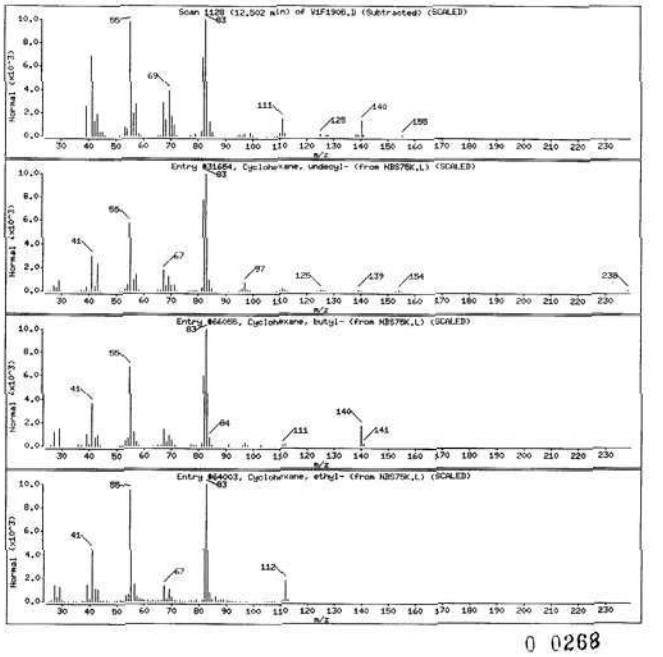
Client ID: AOC3CTCP7RE Instrument: v1.1

Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

Operator: KEH

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexane, undecyl-	64105-64-7	NBS75K.L	31654	72	C17H34	238
Cyclohexane, butyl-	1678-93-9	NBS75K.L	66068	64	C10H20	140
Cyclohexane, ethyl-	1678-91-7	NBS75K.L	64003	64	C8H16	112



0 0268

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

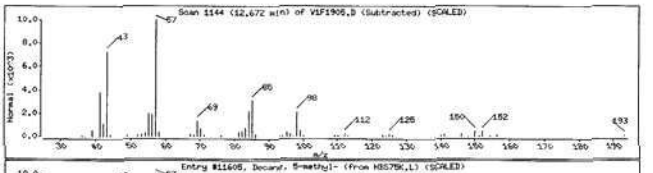
Client ID: AOC3CTCP7RE Instrument: v1.1

Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

Operator: KEH

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Decane, 5-methyl-	13151-35-4	NBS75K.L	11605	64	C11H24	156



0 0269

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

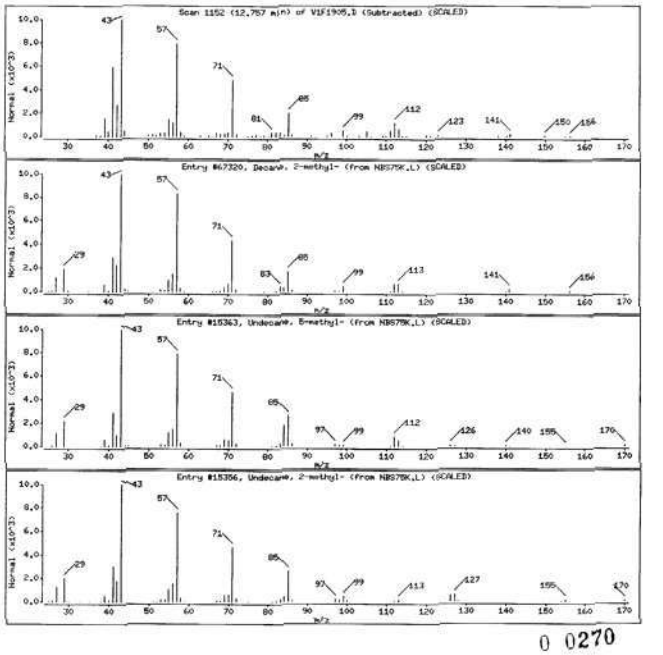
Client ID: AOC3CTCP7RE Instrument: v1.1

Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

Operator: KEH

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
Decane, 2-methyl-	6975-98-0	NBS75K.L	67320	87	C11H24	156
Undecane, 5-methyl-	1632-70-0	NBS75K.L	15363	64	C12H26	170
Undecane, 2-methyl-	7045-71-8	NBS75K.L	15356	64	C12H26	170



0 0270

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

Client ID: AOC3CTCP7RE

Instrument: v1.i

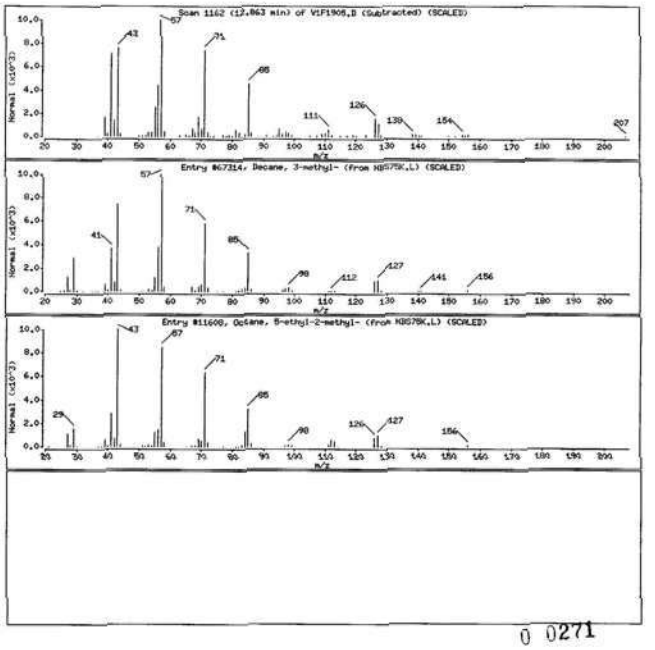
Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
Decane, 3-methyl-	13151-34-3	NBS75K.L	67314	96	C11H24	156
Octane, 5-ethyl-2-methyl-	62016-18-6	NBS75K.L	11608	72	C11H24	156



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

Client ID: AOC3CTCP7RE

Instrument: v1.i

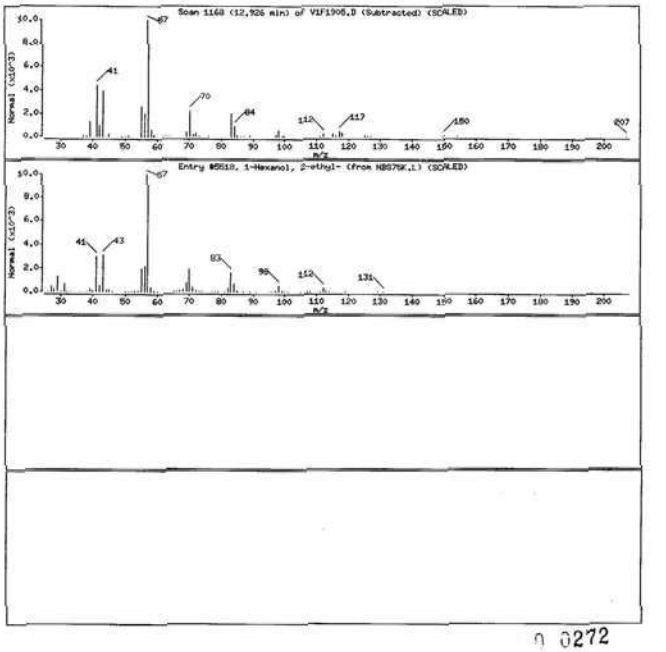
Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Hexanol, 2-ethyl-	104-76-7	NBS75K.L	5818	72	C8H18O	130



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

Client ID: AOC3CTCP7RE

Instrument: v1.i

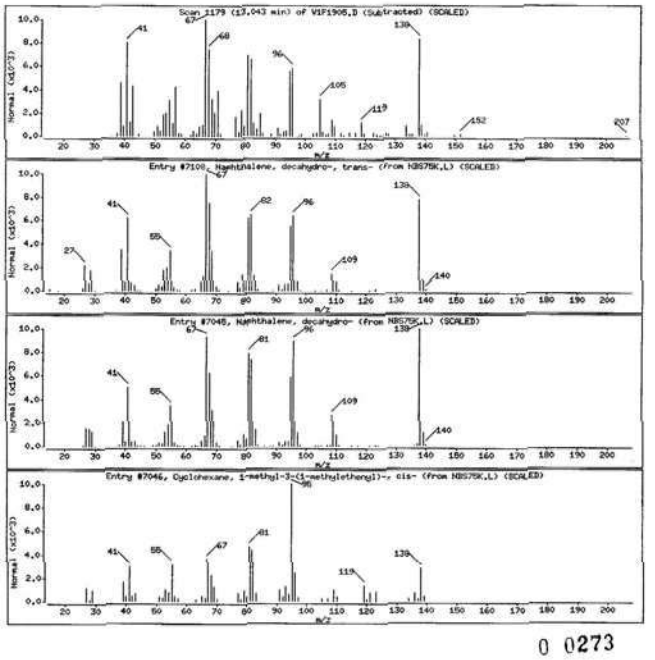
Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, decahydro-, trans-	493-02-7	NBS75K.L	7108	98	C10H18	138
Naphthalene, decahydro-	91-17-8	NBS75K.L	7045	90	C10H18	138
Cyclohexane, 1-methyl-3-(1-methylethenyl	24399-18-3	NBS75K.L	7046	74	C10H18	138



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

Client ID: AOC3CTCP7RE

Instrument: v1.i

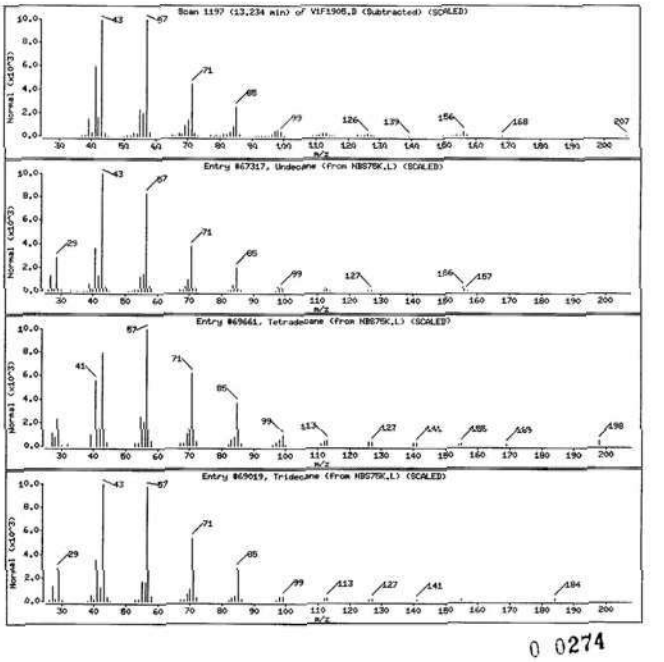
Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Undecane	1120-21-4	NBS75K.L	67317	94	C11H24	156
Tetradecane	629-59-4	NBS75K.L	69661	86	C14H30	198
Tridecane	629-50-5	NBS75K.L	69019	80	C13H28	184



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.1\021231.B\V1F1906.D

Date : 31-DEC-2002 11:53

Client ID: AOC3CTCP7RE

Instrument: v1.1

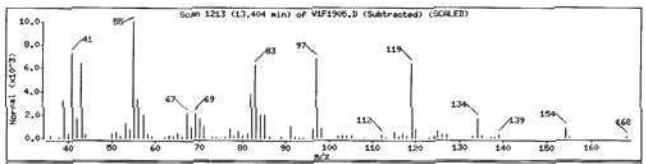
Sample Info: HRP,A1906-02ARE,AOC3CTCP7RE,V1B1231A,,A1906

Operator: KEH

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.1\021231.B\V1F1906.D

Date : 31-DEC-2002 11:53

Client ID: AOC3CTCP7RE

Instrument: v1.1

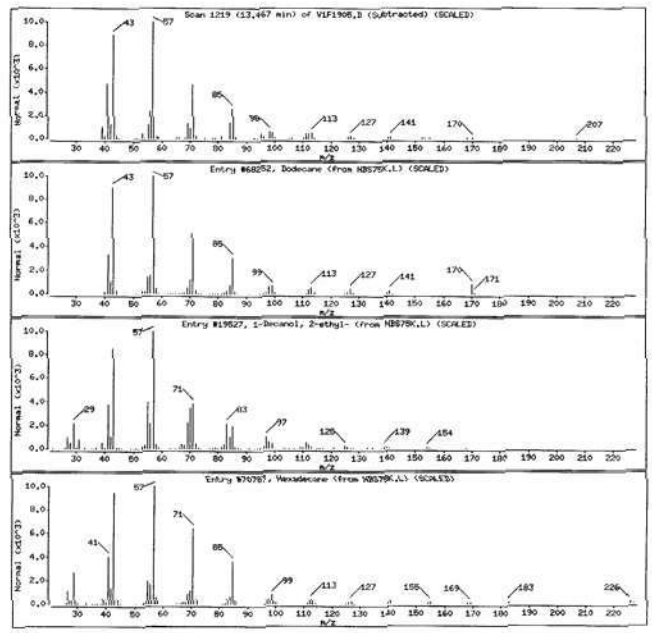
Sample Info: HRP,A1906-02ARE,AOC3CTCP7RE,V1B1231A,,A1906

Operator: KEH

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Dodecane	112-40-3	NBS75K.L	68252	93	C12H26	170
1-Decanol, 2-ethyl-	21078-65-9	NBS75K.L	19527	78	C12H26O	186
Hexadecane	544-76-3	NBS75K.L	70787	72	C16H34	226



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.1\021231.B\V1F1906.D

Date : 31-DEC-2002 11:53

Client ID: AOC3CTCP7RE

Instrument: v1.1

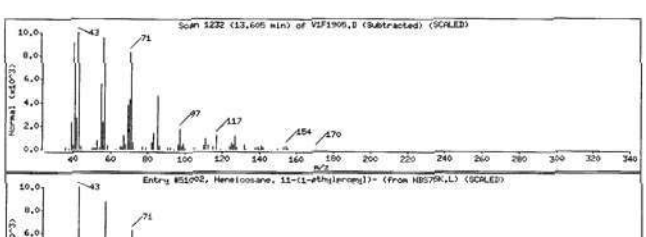
Sample Info: HRP,A1906-02ARE,AOC3CTCP7RE,V1B1231A,,A1906

Operator: KEH

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Heneicosane, 11-(1-ethylpropyl)-	55282-11-6	NBS75K.L	61002	64	C26H54	366
Nonane, 4,5-dimethyl-	17302-23-7	NBS75K.L	11612	64	C11H24	156



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.1\021231.B\V1F1906.D

Date : 31-DEC-2002 11:53

Client ID: AOC3CTCP7RE

Instrument: v1.1

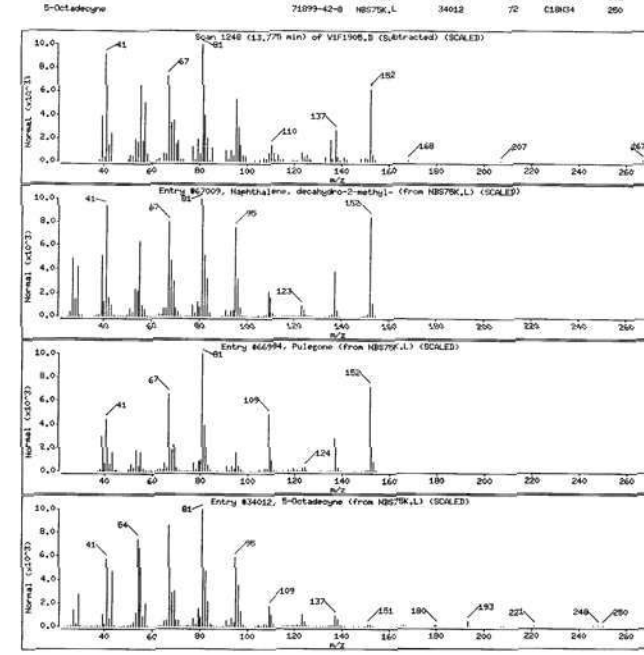
Sample Info: HRP,A1906-02ARE,AOC3CTCP7RE,V1B1231A,,A1906

Operator: KEH

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Naphthalene, decahydro-2-methyl-	2958-76-1	NBS75K.L	67009	83	C11H20	152
Pulegone	89-82-7	NBS75K.L	66994	81	C10H16O	152
5-Octadecyne	71899-42-8	NBS75K.L	34012	72	C18H34	250



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

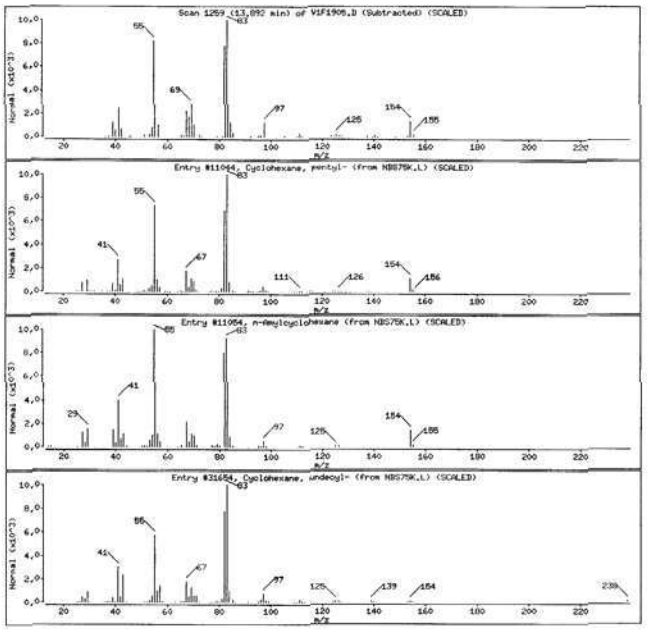
Client ID: AOC3CTCP7RE Instrument: v1.i

Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclic Alkane						
Cyclohexane, pentyl-	4292-92-6	NBS75K.L	11044	91	C11H22	154
n-Amylcyclohexane	29949-27-7	NBS75K.L	11054	90	C11H22	154
Cyclohexane, undecyl-	54105-66-7	NBS75K.L	31654	90	C17H34	238



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1906.D

Date : 31-DEC-2002 11:53

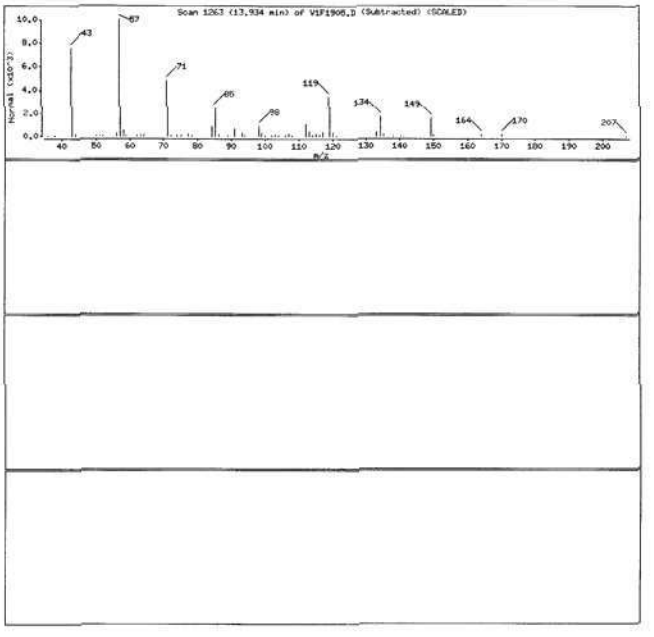
Client ID: AOC3CTCP7RE Instrument: v1.i

Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1906

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

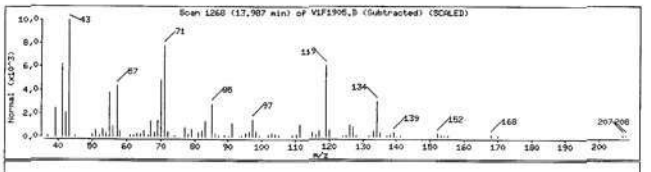
Client ID: AOC3CTCP7RE Instrument: v1.i

Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1906

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1906.D

Date : 31-DEC-2002 11:53

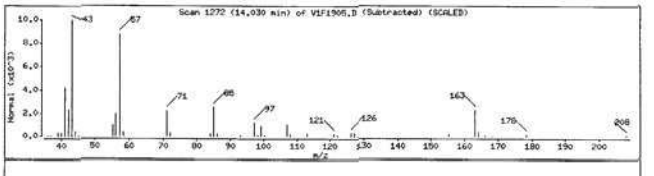
Client ID: AOC3CTCP7RE Instrument: v1.i

Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1906

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

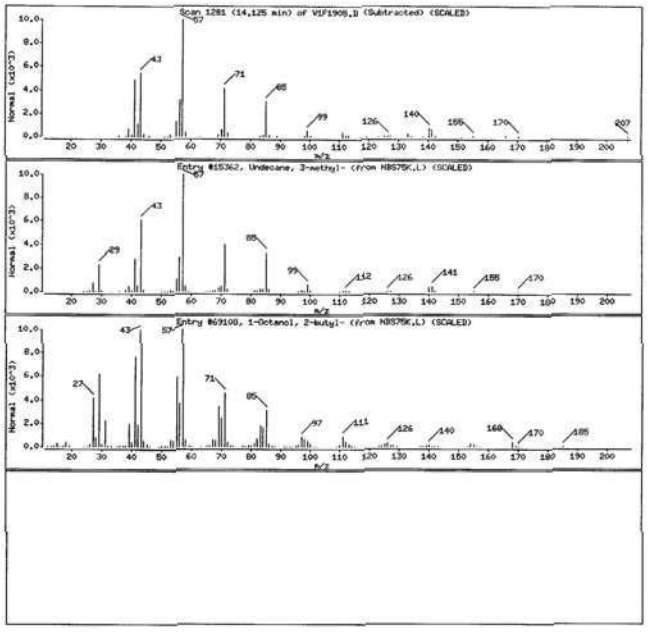
Client ID: AOC3CTCP7RE Instrument: v1.i

Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Undecane, 3-methyl-	1002-43-3	NBS75K.L	15362	72	C12H26	170
1-Octanol, 2-butyl-	3913-02-8	NBS75K.L	69108	64	C12H26O	186



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

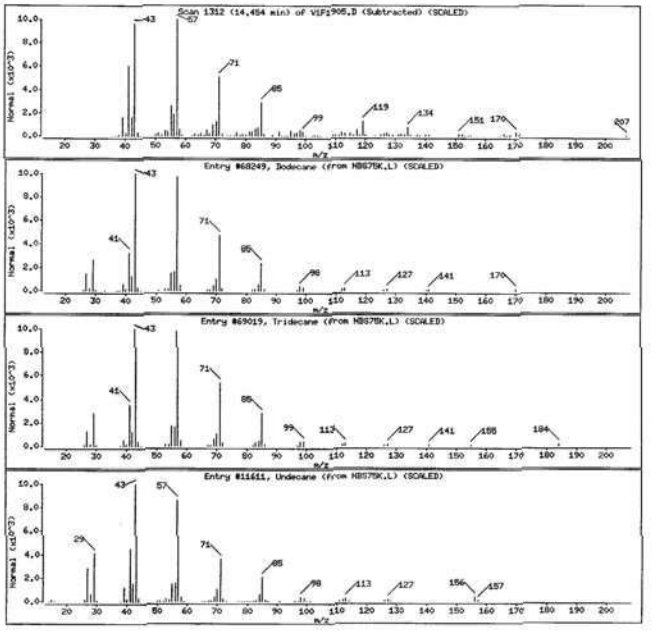
Client ID: AOC3CTCP7RE Instrument: v1.i

Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Dodecane	112-40-3	NBS75K.L	68249	94	C12H26	170
Tridecane	629-50-5	NBS75K.L	69919	64	C13H28	184
Undecane	1120-21-4	NBS75K.L	11611	64	C11H24	156



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1905.D

Date : 31-DEC-2002 11:53

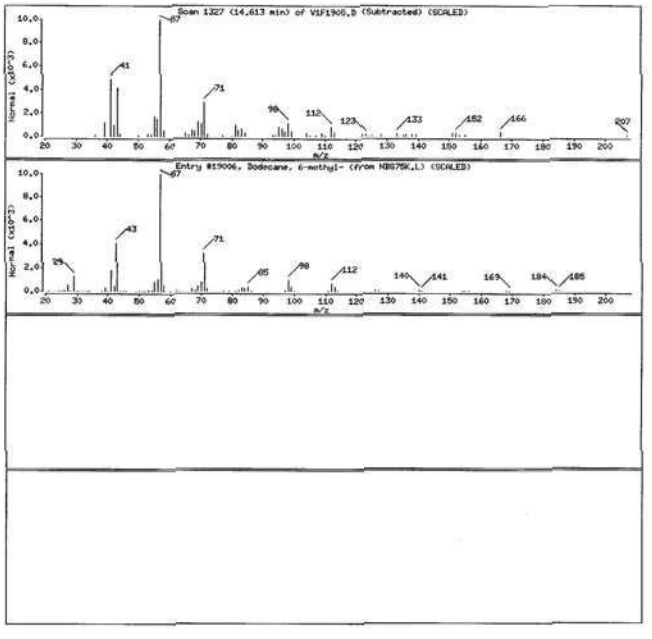
Client ID: AOC3CTCP7RE Instrument: v1.i

Sample Info: HRP,A1905-02ARE,AOC3CTCP7RE,V1B1231A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Dodecane, 6-methyl-	6044-71-9	NBS75K.L	19006	64	C13H28	184



1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC3CTCP8

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-03A

Sample wt/vol: 7.6 (g/mL) G Lab File ID: V1F1884

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 0 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	3	U
74-87-3	Chloromethane	3	U
75-01-4	Vinyl Chloride	3	U
74-83-9	Bromomethane	3	U
75-00-3	Chloroethane	3	U
75-69-4	Trichlorofluoromethane	3	U
75-35-4	1,1-Dichloroethene	6	
67-64-1	Acetone	180	E
75-09-2	Methylene Chloride	0.7	BJ
156-60-5	trans-1,2-Dichloroethene	3	U
1634-04-4	Methyl tert-butyl ether	3	U
75-34-3	1,1-Dichloroethane	3	U
78-93-3	2-Butanone	30	
156-59-2	cis-1,2-Dichloroethene	3	U
590-20-7	2,2-Dichloropropane	3	U
74-97-5	Bromochloromethane	3	U
67-66-3	Chloroform	3	U
109-99-9	Tetrahydrofuran	3	U
71-55-6	1,1,1-Trichloroethane	180	E
563-58-6	1,1-Dichloropropene	3	U
56-23-5	Carbon Tetrachloride	3	U
107-06-2	1,2-Dichloroethane	3	U
71-43-2	Benzene	1	J
79-01-6	Trichloroethene	3	U
78-87-5	1,2-Dichloropropane	3	U
74-95-3	Dibromomethane	3	U
75-27-4	Bromodichloromethane	3	U
10061-01-5	cis-1,3-Dichloropropene	3	U
108-10-1	4-Methyl-2-pentanone	11	
108-88-3	Toluene	5	
10061-02-6	trans-1,3-Dichloropropene	3	U
79-00-5	1,1,2-Trichloroethane	3	U
142-28-9	1,3-Dichloropropane	3	U
127-18-4	Tetrachloroethene	3	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP8

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-03A
Sample wt/vol: 7.6 (g/mL) G Lab File ID: V1F1884
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 0 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	29	
124-48-1	Dibromochloromethane	3	U
106-93-4	1,2-Dibromoethane	3	U
108-90-7	Chlorobenzene	3	U
630-20-6	1,1,1,2-Tetrachloroethane	3	U
100-41-4	Ethylbenzene	3	U
	m,p-Xylene	1	J
95-47-6	o-Xylene	3	U
1330-20-7	Xylene (Total)	1	J
100-42-5	Styrene	3	U
75-25-2	Bromoform	3	U
98-82-8	Isopropylbenzene	3	U
79-34-5	1,1,2,2-Tetrachloroethane	3	U
108-86-1	Bromobenzene	3	U
96-18-4	1,2,3-Trichloropropane	3	U
103-65-1	n-Propylbenzene	3	U
95-49-8	2-Chlorotoluene	3	U
108-67-8	1,3,5-Trimethylbenzene	3	U
106-43-4	4-Chlorotoluene	3	U
98-06-6	tert-Butylbenzene	3	U
95-63-6	1,2,4-Trimethylbenzene	2	J
135-98-8	sec-Butylbenzene	3	U
99-87-6	4-Isopropyltoluene	3	U
541-73-1	1,3-Dichlorobenzene	3	U
106-46-7	1,4-Dichlorobenzene	3	U
104-51-8	n-Butylbenzene	3	U
95-50-1	1,2-Dichlorobenzene	3	U
96-12-8	1,2-Dibromo-3-chloropropane	3	U
120-82-1	1,2,4-Trichlorobenzene	3	U
87-68-3	Hexachlorobutadiene	3	U
91-20-3	Naphthalene	1	J
87-61-6	1,2,3-Trichlorobenzene	3	U
544-10-5	1-Chlorohexane	3	U
107-13-1	Acrylonitrile	3	U

FORM I VOA OLM03.0

0 0287

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3CTCP8

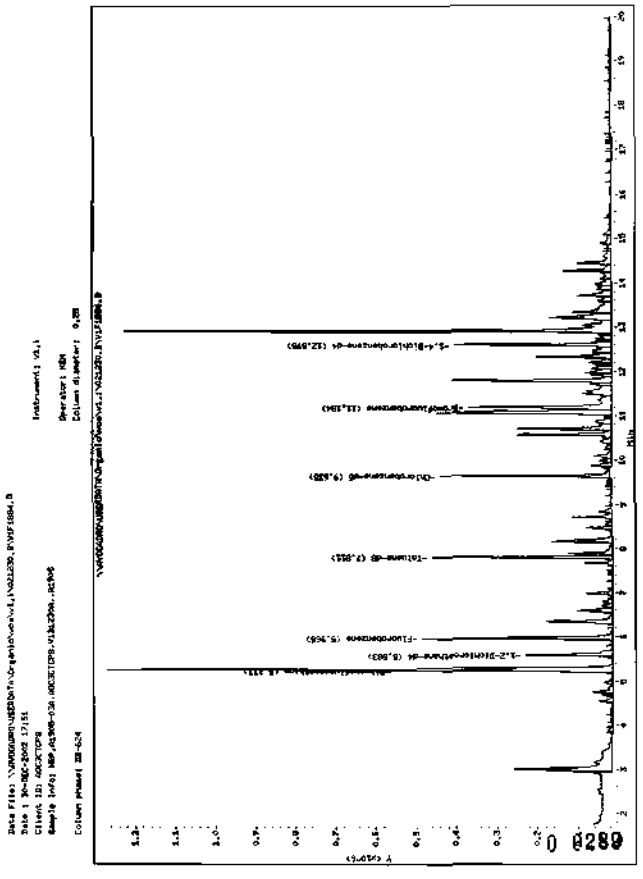
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-03A
Sample wt/vol: 7.6 (g/mL) G Lab File ID: V1F1884
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 0 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.34	13	J
2.	UNKNOWN	6.59	8	J
3.	UNKNOWN	6.99	5	J
4. 108-11-2	2-PENTANOL, 4-METHYL-	8.17	16	NJ
5. 110-12-3	2-HEXANONE, 5-METHYL-	8.48	6	NJ
6. 105-42-0	2-HEXANONE, 4-METHYL-	9.89	6	NJ
7.	UNKNOWN	10.10	6	J
8. 106-35-4	3-HEPTANONE	10.56	19	NJ
9. 110-43-0	2-HEPTANONE	10.70	23	NJ
10.	UNKNOWN	10.87	7	J
11. 111-76-2	ETHANOL, 2-BUTOXY-	11.06	52	NJ
12. 6137-06-0	2-HEPTANONE, 4-METHYL-	11.50	20	NJ
13.	UNKNOWN	11.71	7	J
14.	UNKNOWN	11.78	39	J
15.	UNKNOWN	11.92	5	J
16.	UNKNOWN	11.97	10	J
17.	UNKNOWN	12.08	7	J
18. 111-13-7	2-OCTANONE	12.33	19	NJ
19.	UNKNOWN	12.44	12	J
20.	UNKNOWN	12.74	6	J
21.	UNKNOWN	12.90	110	J
22.	STRAIGHT-CHAIN ALKANE	13.22	26	J
23.	UNKNOWN	13.34	21	J
24.	UNKNOWN	13.71	14	J
25.	UNKNOWN	13.87	6	J
26.	UNKNOWN	13.97	8	J
27.	UNKNOWN	14.21	6	J
28.	UNKNOWN	14.26	13	J
29.	UNKNOWN	14.44	14	J
30. 693-54-9	2-DECANONE	14.91	6	NJ

FORM I VOA-TIC OLM03.0

0 0288



0 0289

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1884.D
Report Date: 09-Jan-2003 16:24

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1884.D
Lab Smp Id: A1905-03A Client Smp ID: AOC3CTCP8
Inj Date : 30-DEC-2002 17:51
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905
Misc Info : 23-DEC-02,,,,,,,7.6
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Df * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Df	1.000	ng unit correction factor
Ws	7.600	Weight of sample (g)
M	0.000	% Moisture (not decanted)

	Compounds	QUANT SIG MASS	RT	REF RT	RRT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)	
	6 1,1-Dichloroethene	96	2.942	2.951	(0.681)	36688	8.68881	6	
	9 Acetone	43	2.995	2.954	(0.803)	668920	378.617	190	(A)
	14 Methylene Chloride	84	3.419	3.413	(0.971)	5590	1.13484	0.74	(a)
	22 2-Butanone	43	4.786	4.746	(0.957)	101629	46.0798	30	
S	30 Dibromofluoromethane	113	5.233	5.225	(0.877)	36339	12.5727	8	(a)
	31 1,1,1-Trichloroethane	97	5.255	5.252	(0.881)	1069050	271.447	180	(A)
S	35 1,2-Dichloroethane-d4	102	5.594	5.606	(0.938)	37761	10.2761	10	
	37 Benzene	78	5.650	5.649	(0.948)	21966	1.77647	1	(a)
*	38 Fluorobenzene	96	5.749	5.737	(1.000)	518965	50.0000		
	46 4-Methyl-2-pentanone	43	7.672	7.665	(1.336)	72147	16.9204	11	
S	47 Toluene-d8	98	7.811	7.803	(0.813)	286267	48.6678	32	
	48 Toluene	91	7.849	7.886	(1.323)	85903	7.24127	5	
	54 2-Hexanone	43	8.721	8.715	(0.905)	111014	44.4662	29	
*	57 Chlorobenzene-d5	117	9.435	9.438	(1.000)	507716	50.0000		
	61 m,p-Xylene	106	9.936	9.999	(1.057)	9303	2.08566	1	(a)

0 0290

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1884.D
Report Date: 09-Jan-2003 16:24

Compounds	QUANT SIG MASS	RT	RRT RT	Exp. RT	AREA#/MSEC	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/kg)
3 88 Bromofluorobenzene	95	11.184	11.187 (1.161)	179179	42.4312		88
79 1,2,4-Trimethylbenzene	105	10.202	10.194 (0.948)	14116	2.34348		3[a]
* 81 1,4-Dichlorobenzene-d4	152	12.595	12.587 (1.000)	196491	50.0000		
R 83 Xylene (Total)	106			9263	2.04868		1[a]
88 Naphthalene	128	15.128	15.101 (1.209)	11423	2.26728		1[a]

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1884.D
Report Date: 09-Jan-2003 16:24

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1884.D
Lab Smp Id: A1905-03A Client Smp ID: AOC3CTCP8
Inj Date : 30-DEC-2002 17:51
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905
Misc Info : 23-DEC-02,,,,,,,7.6
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	7.600	Weight of sample (g)
M	0.000	% Moisture (not decanted)

ISTD	RT	AREA	AMOUNT
* 38 Fluorobenzene	5.965	1205775	50.000
* 57 Chlorobenzene-d5	9.635	987704	50.000
* 81 1,4-Dichlorobenzene-d4	12.595	882211	50.000

RT	AREA	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/kg)	QUANT QUAL	LIBRARY	LIB SMPNT	CMPD #
Unknown			CAS #:				
6.336	488794	20.8102356	13	0		0	38

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1884.D
Report Date: 09-Jan-2003 16:24

RT	AREA	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/kg)	QUANT QUAL	LIBRARY	LIB SMPNT	CMPD #
Unknown			CAS #:				
6.581	288172	11.9445599	8	0		0	36
Unknown			CAS #:				
6.994	197570	8.1924941&	5	0		0	36
2-Pentanol, 4-methyl-			CAS #:	108-11-2			
8.172	488094	23.6468668	16	90	NBS75K.L	63845	87
2-Hexanone, 5-methyl-			CAS #:	110-12-3			
8.878	186014	9.21622519	6	90	NBS75K.L	66166	37
2-Hexanone, 4-methyl-			CAS #:	108-42-0			
9.890	172658	8.74239693	6	91	NBS75K.L	3066	37
Unknown			CAS #:				
10.102	189159	9.57468027	6	0		0	37
1-Heptanone			CAS #:	106-35-4			
10.659	574650	29.0798741	18	85	NBS75K.L	3049	37
2-Heptanone			CAS #:	110-43-0			
10.696	651204	32.9604821	22	91	NBS75K.L	3918	37
Unknown			CAS #:				
10.866	213469	10.7907254	7	0		0	37
Ethanol, 1-butoxy-			CAS #:	111-76-2			
11.057	1440188	72.8806883	52	91	NBS75K.L	64432	37
2-Heptanone, 4-methyl-			CAS #:	6137-06-5			
11.963	662107	33.5910970	26	87	NBS75K.L	63100	81
Unknown			CAS #:				
12.715	466412	23.5376602	7	0		0	81
Unknown			CAS #:				
13.734	9561651	69.6119595	39	0		0	81
Unknown			CAS #:				
13.916	161465	8.16425922	5	0		0	81
Unknown			CAS #:				
13.969	261350	14.0869249	10	0		0	81

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1884.D
Report Date: 09-Jan-2003 16:24

RT	AREA	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/kg)	QUANT QUAL	LIBRARY	LIB SMPNT	CMPD #
Unknown			CAS #:				
12.038	193185	10.9469513	7	0		0	81
2-Hexanone			CAS #:	111-13-7			
12.350	115404	99.2139257	19	91	NBS75K.L	66063	81
Unknown			CAS #:				
12.436	119559	10.6802817	13	0		0	81
Unknown			CAS #:				
12.745	376444	8.97149582	8	0		0	81
Unknown			CAS #:				
12.903	3049707	372.044856	110	0		0	81
Straight-chain Alkane			CAS #:				
13.253	893408	39.2992736	26	0		0	81
Unknown			CAS #:				
13.327	566026	32.0800806	22	0		0	81
Unknown			CAS #:				
13.795	368657	20.8939265	14	0		0	81
Unknown			CAS #:				
13.866	273966	5.83838811	6	0		0	81
Unknown			CAS #:				
13.976	290785	11.9466051	6	0		0	81
Unknown			CAS #:				
14.300	145402	8.46747847	6	0		0	81
Unknown			CAS #:				
14.360	368934	36.3126458	13	0		0	81
Unknown			CAS #:				
14.882	386860	21.9289938	14	0		0	81
2-Decanone			CAS #:	693-54-9			
14.907	156269	8.85627136	6	94	NBS75K.L	65485	81

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021230,B\V1F1884.D

Date : 30-DEC-2002 17:51

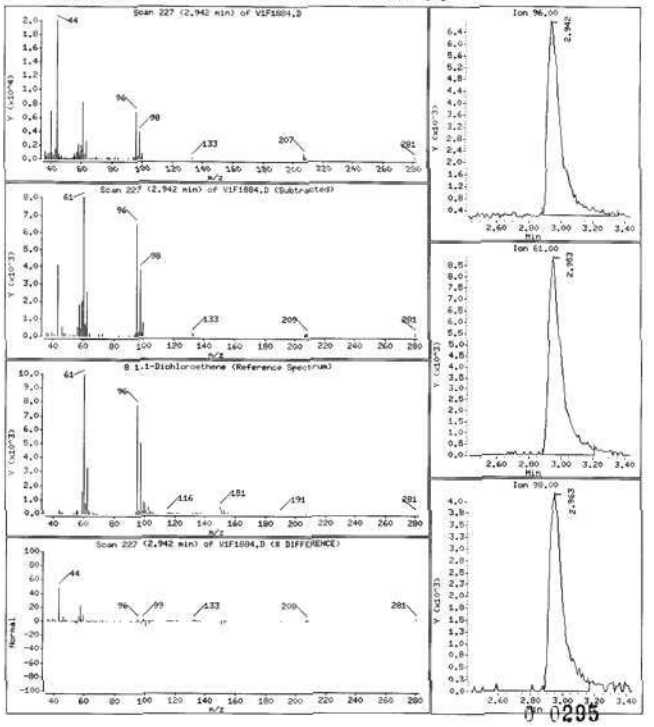
Client ID: AOC3CTCP8 Instrument: v1.1

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

8 1,1-Dichloroethene Concentration: 6 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021230,B\V1F1884.D

Date : 30-DEC-2002 17:51

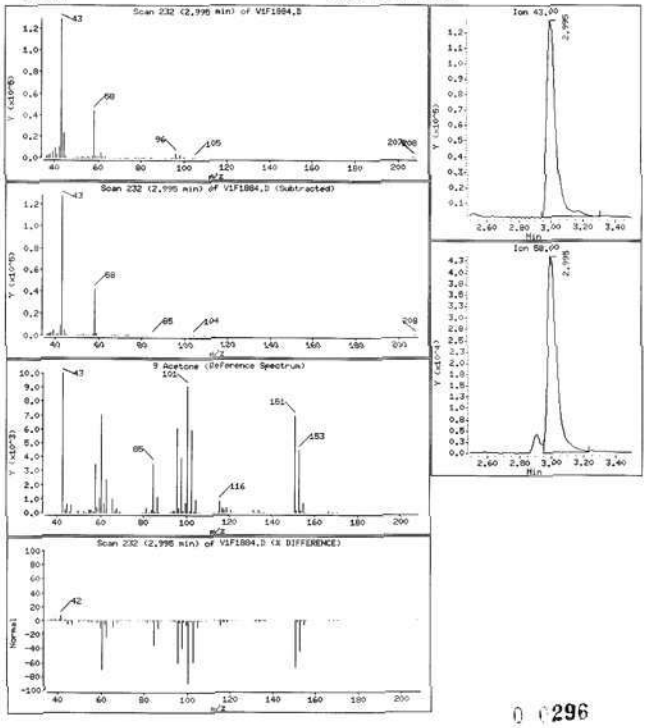
Client ID: AOC3CTCP8 Instrument: v1.1

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

9 Acetone Concentration: 180 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021230,B\V1F1884.D

Date : 30-DEC-2002 17:51

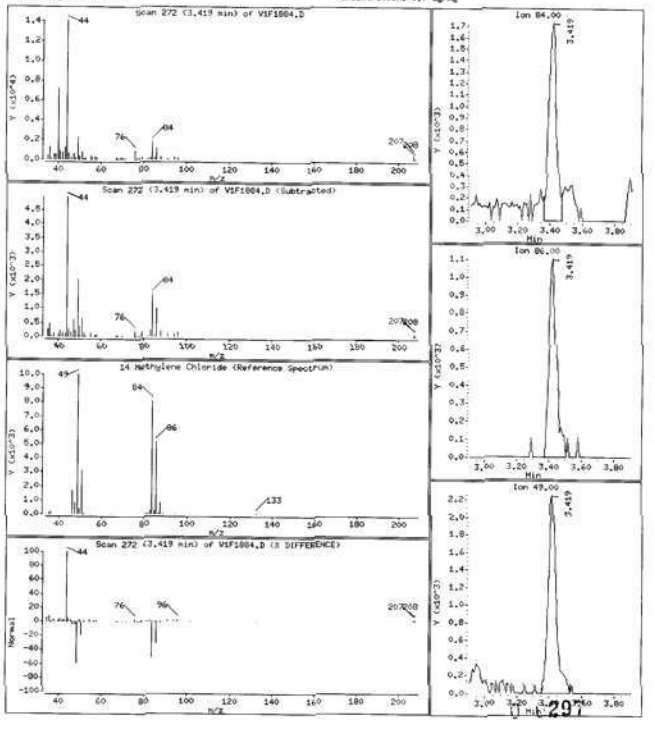
Client ID: AOC3CTCP8 Instrument: v1.1

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

14 Methylene Chloride Concentration: 0.7 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021230,B\V1F1884.D

Date : 30-DEC-2002 17:51

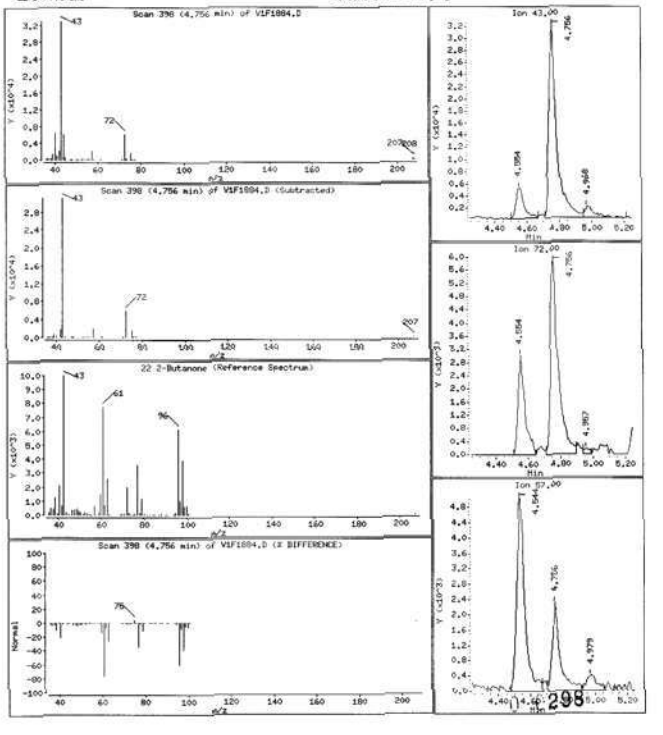
Client ID: AOC3CTCP8 Instrument: v1.1

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

22 2-Butanone Concentration: 30 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1884.D

Date : 30-DEC-2002 17:51

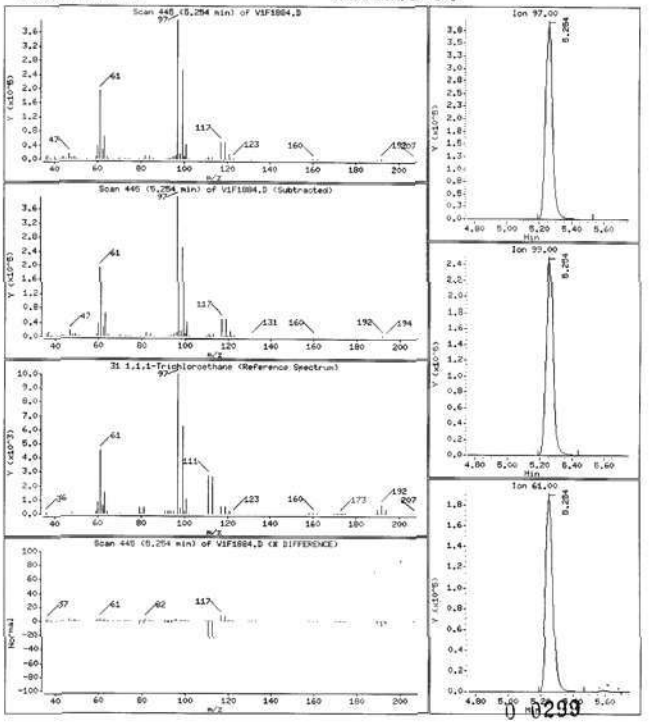
Client ID: AOC3CTCP8 Instrument: v1.i

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

31 1,1,1-Trichloroethane Concentration: 180 ug/Kg



0 0299

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1884.D

Date : 30-DEC-2002 17:51

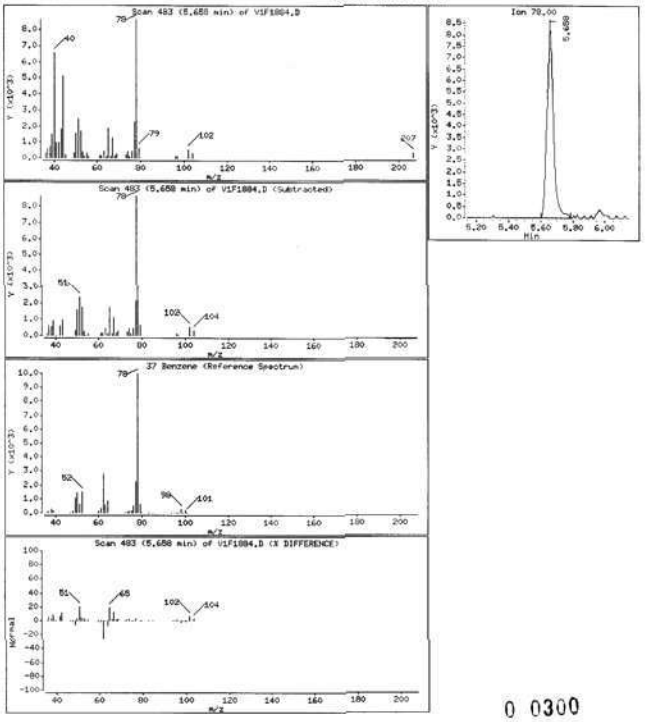
Client ID: AOC3CTCP8 Instrument: v1.i

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

37 Benzene Concentration: 1 ug/Kg



0 0300

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1884.D

Date : 30-DEC-2002 17:51

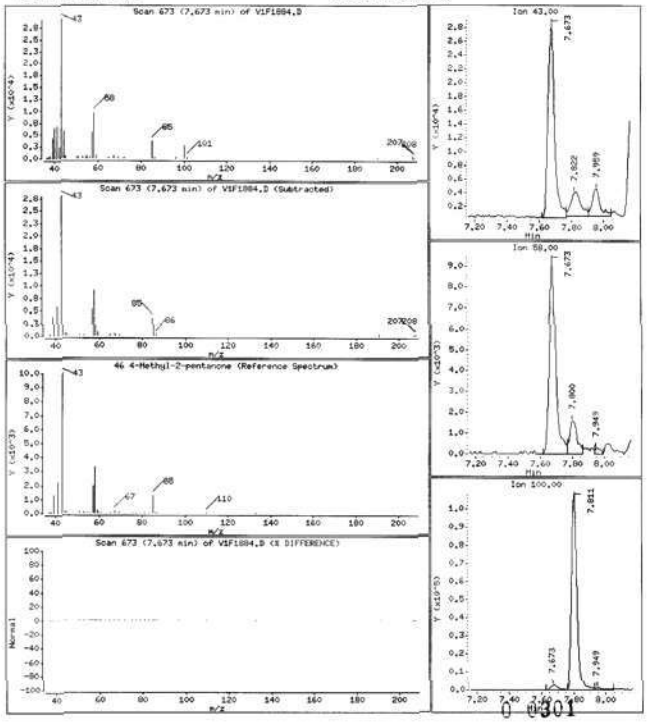
Client ID: AOC3CTCP8 Instrument: v1.i

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

46 4-Methyl-2-pentanone Concentration: 11 ug/Kg



0 0301

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1884.D

Date : 30-DEC-2002 17:51

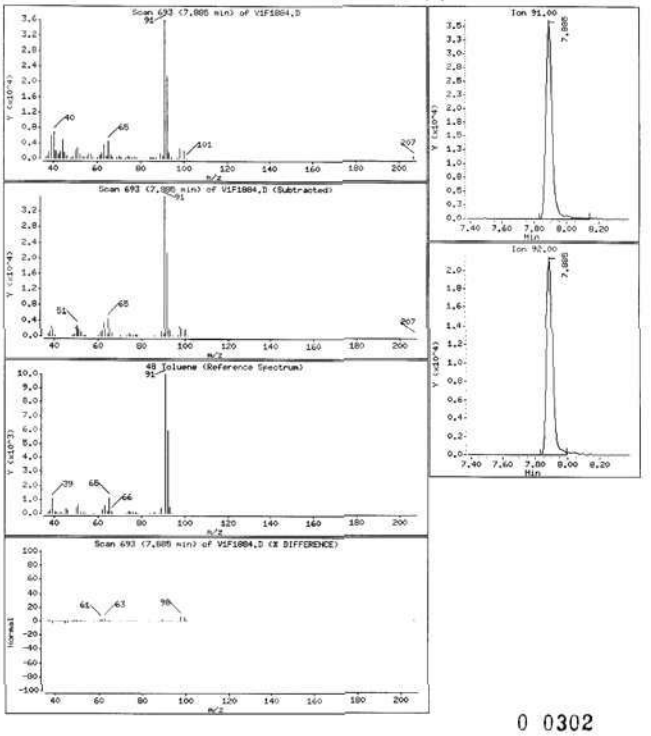
Client ID: AOC3CTCP8 Instrument: v1.i

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

48 Toluene Concentration: 5 ug/Kg



0 0302

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1804.D

Date : 30-DEC-2002 17:51

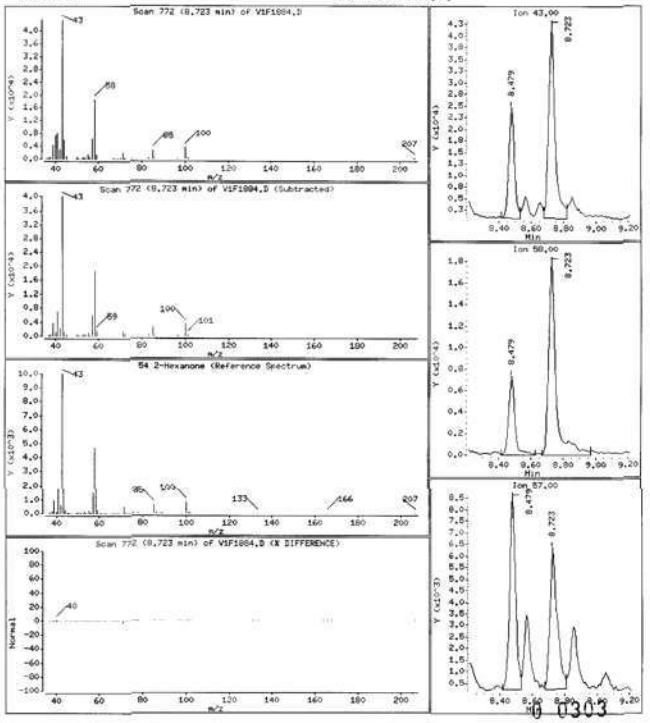
Client ID: AOC3CTCP8 Instrument: v1.i

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

54 2-Hexanone Concentration: 25 ug/Kg



0 0303

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1804.D

Date : 30-DEC-2002 17:51

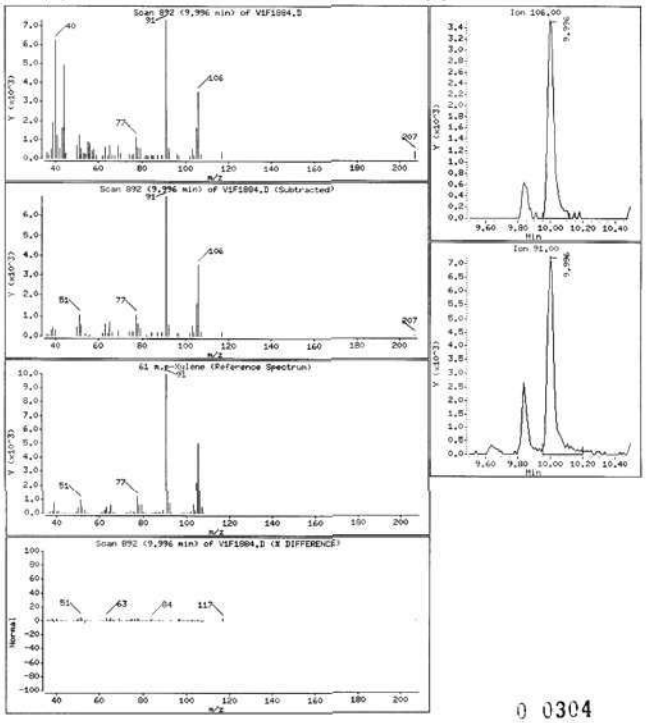
Client ID: AOC3CTCP8 Instrument: v1.i

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

61 m,p-Xylene Concentration: 1 ug/Kg



0 0304

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1804.D

Date : 30-DEC-2002 17:51

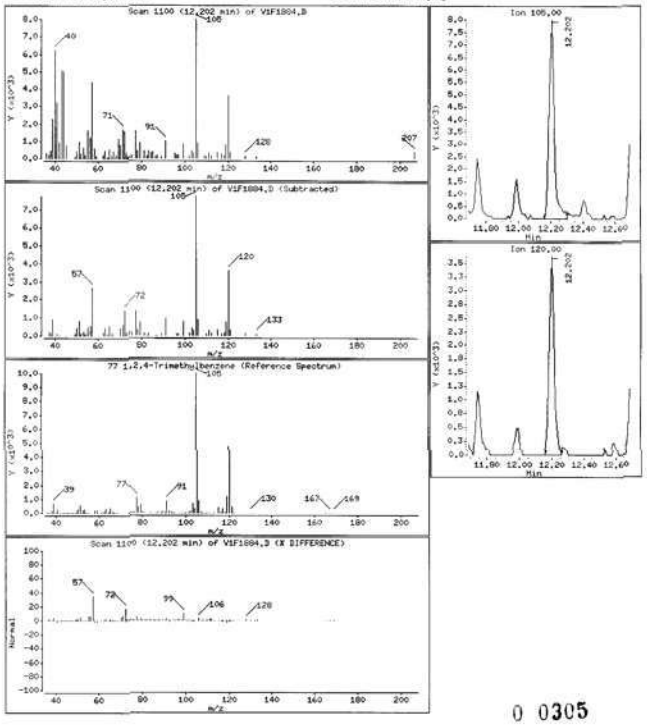
Client ID: AOC3CTCP8 Instrument: v1.i

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

77 1,2,4-Trimethylbenzene Concentration: 2 ug/Kg



0 0305

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1804.D

Date : 30-DEC-2002 17:51

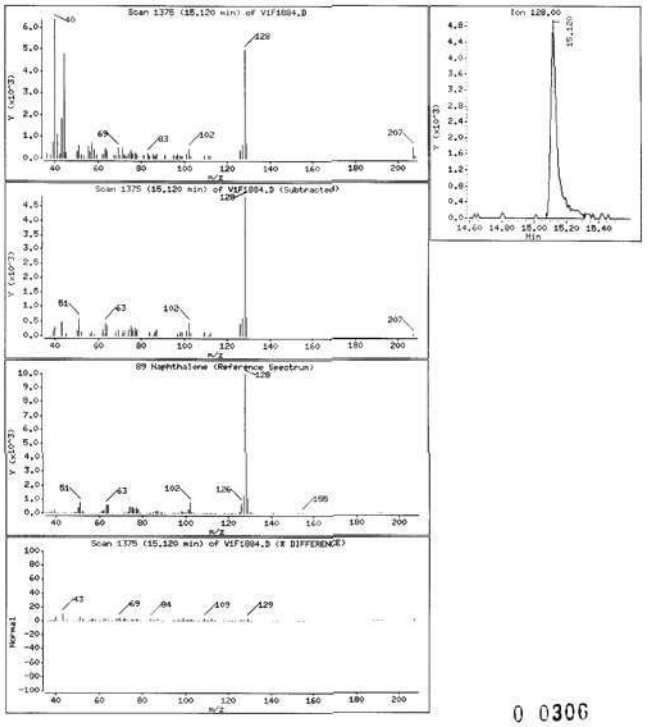
Client ID: AOC3CTCP8 Instrument: v1.i

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

89 Naphthalene Concentration: 1 ug/Kg



0 0306

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1,1\021230.B\V1F1804.D

Date : 30-DEC-2002 17:51

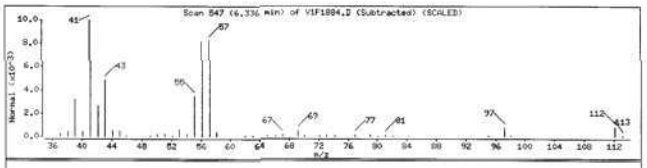
Client ID: AOC3CTCP8 Instrument: v1.1

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1,1\021230.B\V1F1804.D

Date : 30-DEC-2002 17:51

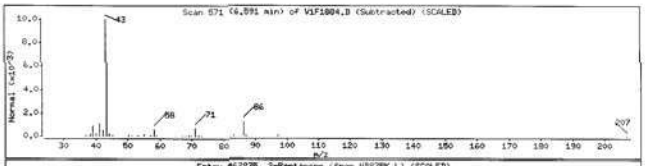
Client ID: AOC3CTCP8 Instrument: v1.1

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Pentanone	107-87-9	NBS75K.L	62935	72	C5H10O	86



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1,1\021230.B\V1F1804.D

Date : 30-DEC-2002 17:51

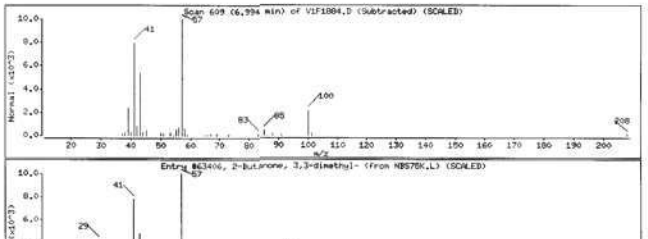
Client ID: AOC3CTCP8 Instrument: v1.1

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Butanone, 3,3-dimethyl-	75-97-8	NBS75K.L	63406	72	C6H12O	100



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1,1\021230.B\V1F1804.D

Date : 30-DEC-2002 17:51

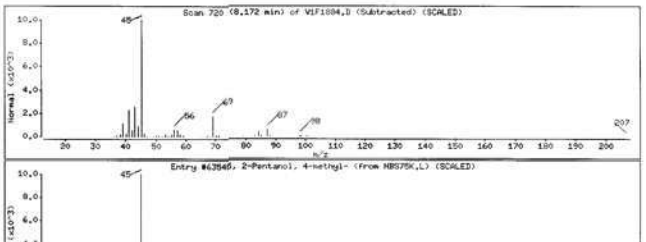
Client ID: AOC3CTCP8 Instrument: v1.1

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Pentanol, 4-methyl-	108-11-2	NBS75K.L	63545	80	C6H14O	102
2-Hexanol	626-93-7	NBS75K.L	63584	83	C6H14O	102
2-Octanol, (.+/-.)-	4128-31-8	NBS75K.L	65517	78	C8H18O	130



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021230.B\V1F1804.D

Date : 30-DEC-2002 17:51

Client ID: AOC3CTCPB

Instrument: v1.1

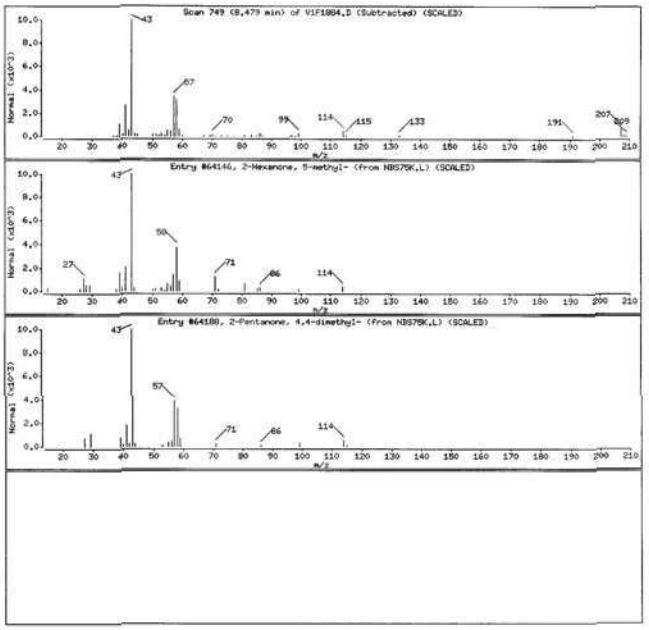
Sample Info: MRP,A1905-03A,AOC3CTCPB,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Hexanone, 5-methyl-	110-12-3	NBS75K.L	64146	90	C7H14O	114
2-Pentanone, 4,4-dimethyl-	590-50-1	NBS75K.L	64180	80	C7H14O	114



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021230.B\V1F1804.D

Date : 30-DEC-2002 17:51

Client ID: AOC3CTCPB

Instrument: v1.1

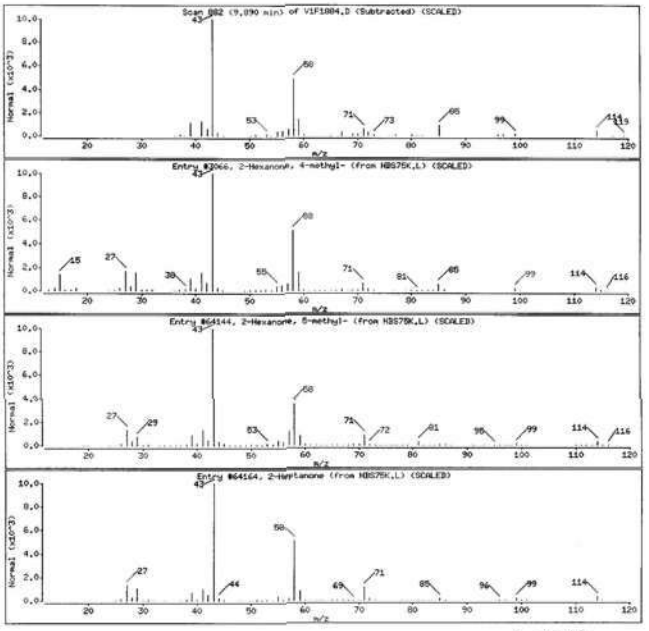
Sample Info: MRP,A1905-03A,AOC3CTCPB,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Hexanone, 4-methyl-	108-42-9	NBS75K.L	3066	91	C7H14O	114
2-Hexanone, 5-methyl-	110-12-3	NBS75K.L	64144	80	C7H14O	114
2-Heptanone	110-43-0	NBS75K.L	64164	72	C7H14O	114



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021230.B\V1F1804.D

Date : 30-DEC-2002 17:51

Client ID: AOC3CTCPB

Instrument: v1.1

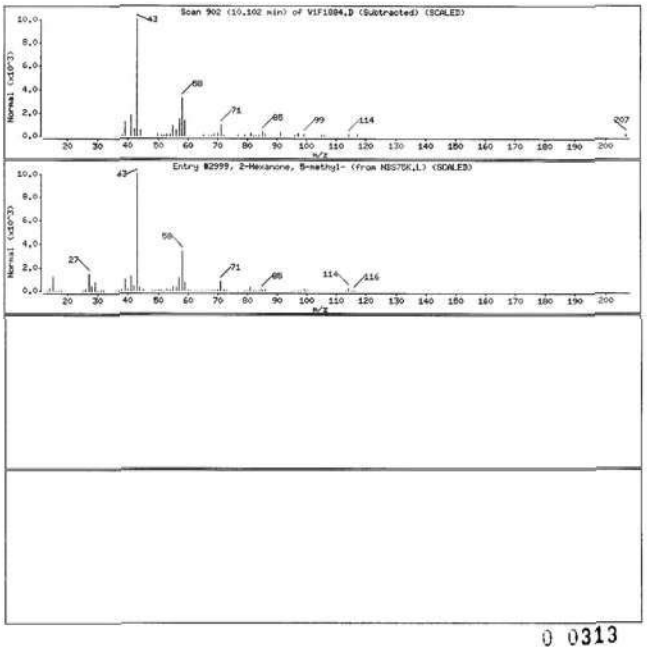
Sample Info: MRP,A1905-03A,AOC3CTCPB,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Hexanone, 5-methyl-	110-12-3	NBS75K.L	2999	83	C7H14O	114



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021230.B\V1F1804.D

Date : 30-DEC-2002 17:51

Client ID: AOC3CTCPB

Instrument: v1.1

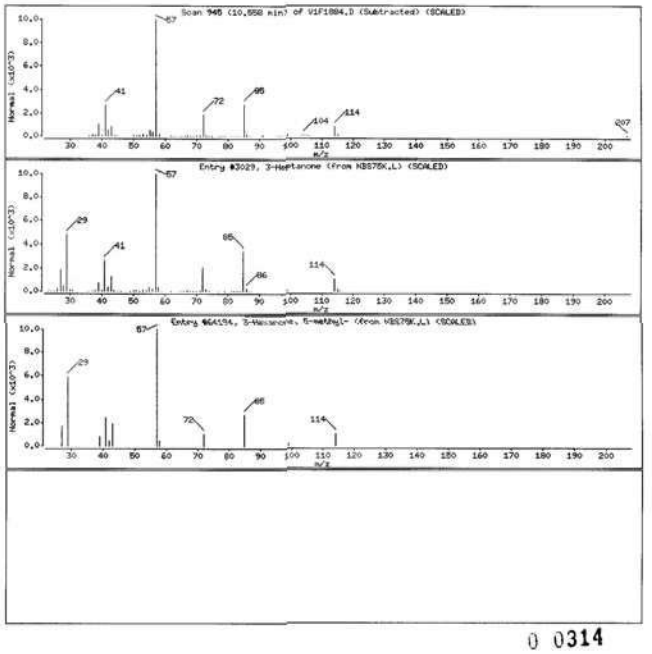
Sample Info: MRP,A1905-03A,AOC3CTCPB,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
3-Heptanone	106-35-4	NBS75K.L	3029	87	C7H14O	114
3-Hexanone, 5-methyl-	623-56-3	NBS75K.L	64194	64	C7H14O	114



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1804.D

Date : 30-DEC-2002 17:51

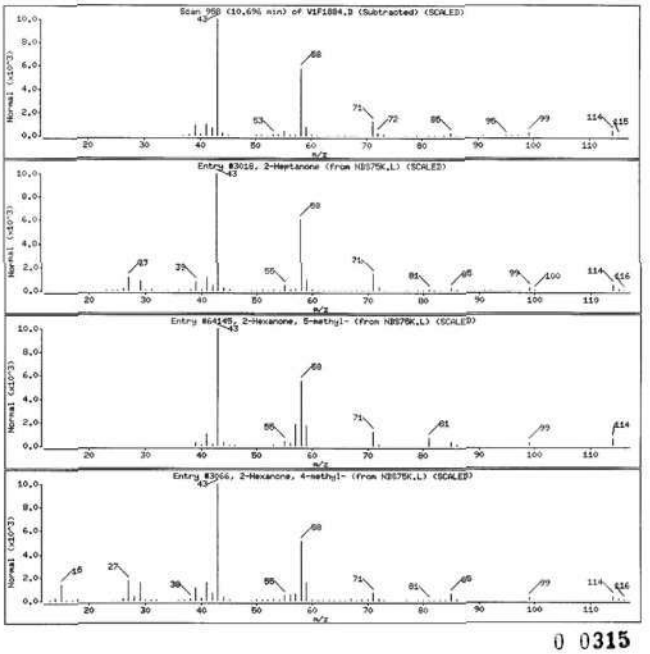
Client ID: AOC3CTCP8 Instrument: v1.i

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Heptanone*	110-43-0	NBS75K.L	3018	91	C7H14O	114
2-Hexanone, 5-methyl-	110-12-3	NBS75K.L	64148	78	C7H14O	114
2-Hexanone, 4-methyl-	105-42-0	NBS75K.L	3066	64	C7H14O	114



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1804.D

Date : 30-DEC-2002 17:51

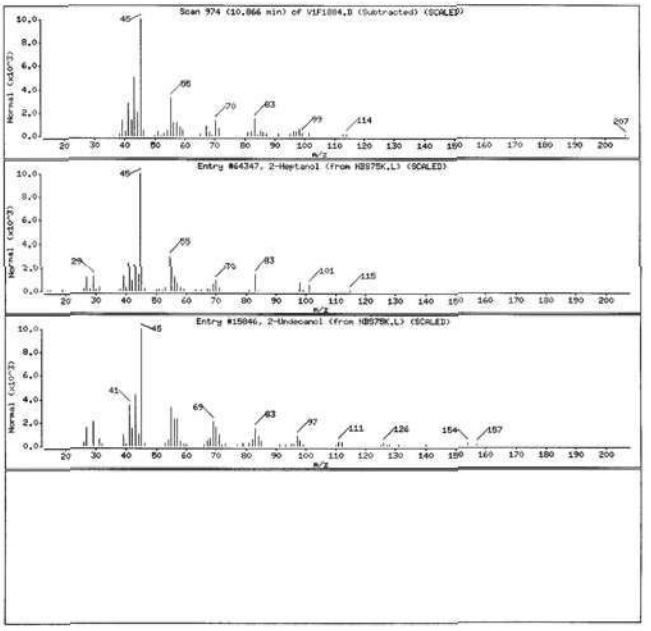
Client ID: AOC3CTCP8 Instrument: v1.i

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Heptanol	543-49-7	NBS75K.L	64347	64	C7H16O	116
2-Undecanol	1653-30-1	NBS75K.L	15046	64	C11H24O	172



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1804.D

Date : 30-DEC-2002 17:51

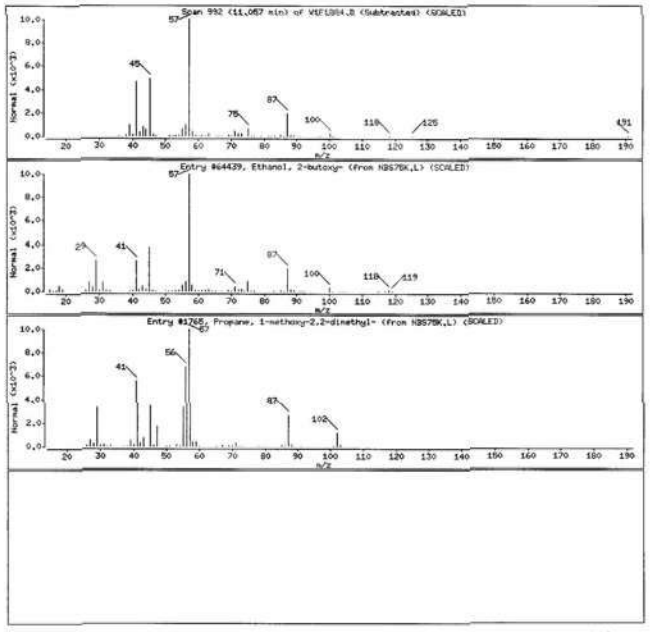
Client ID: AOC3CTCP8 Instrument: v1.i

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethanol, 2-butoxy-	111-76-2	NBS75K.L	64439	91	C6H14O2	118
Propane, 1-methoxy-2,2-dimethyl-	1118-00-9	NBS75K.L	1765	64	C6H14O	102



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1804.D

Date : 30-DEC-2002 17:51

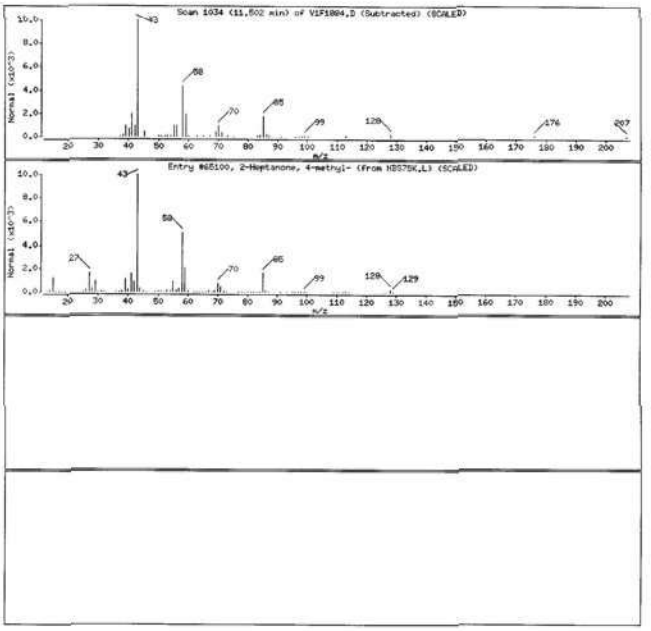
Client ID: AOC3CTCP8 Instrument: v1.i

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Heptanone, 4-methyl-	6137-06-0	NBS75K.L	65100	87	C8H16O	128



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1884.D

Date : 30-DEC-2002 17:51

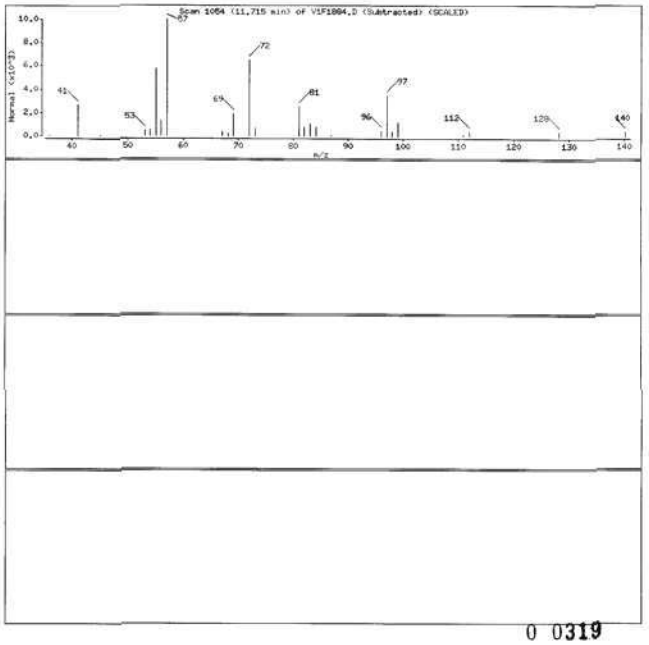
Client ID: AOC3CTCP8 Instrument: v1.i

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1884.D

Date : 30-DEC-2002 17:51

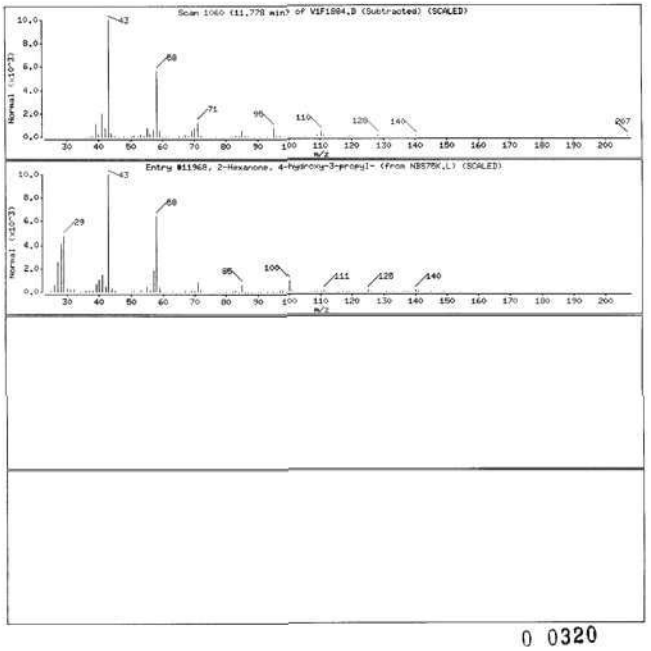
Client ID: AOC3CTCP8 Instrument: v1.i

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Hexanone, 4-hydroxy-3-propyl-	62538-17-4	NBS75K.L	11968	64	C9H18O2	158



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1884.D

Date : 30-DEC-2002 17:51

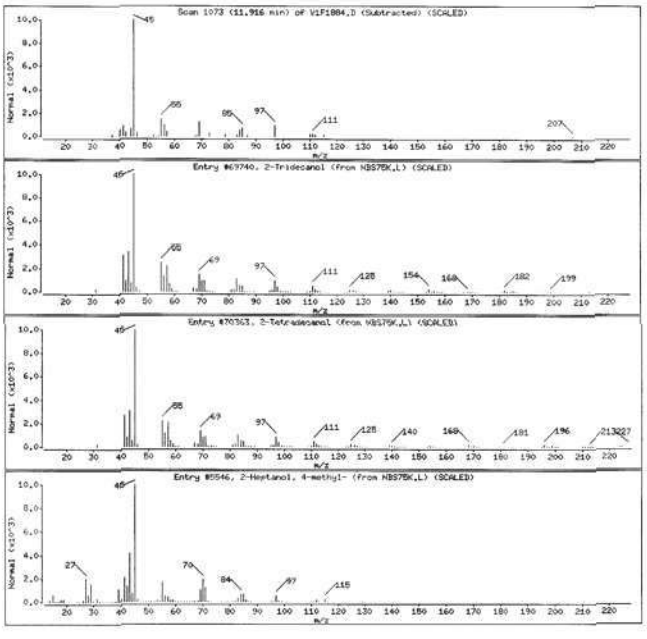
Client ID: AOC3CTCP8 Instrument: v1.i

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Tridecanol	1653-31-2	NBS75K.L	69740	74	C13H28O	200
2-Tetradecanol	4706-81-4	NBS75K.L	70363	74	C14H30O	214
2-Heptanol, 4-methyl-	56298-90-9	NBS75K.L	5546	64	C8H18O	130



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1884.D

Date : 30-DEC-2002 17:51

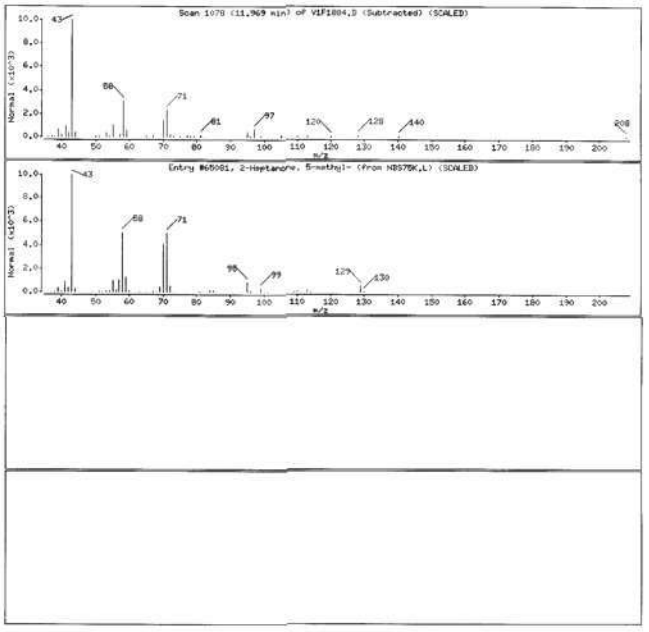
Client ID: AOC3CTCP8 Instrument: v1.i

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Heptanone, 5-methyl-	18217-12-4	NBS75K.L	65081	72	C8H16O	128



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1804.D

Date : 30-DEC-2002 17:51

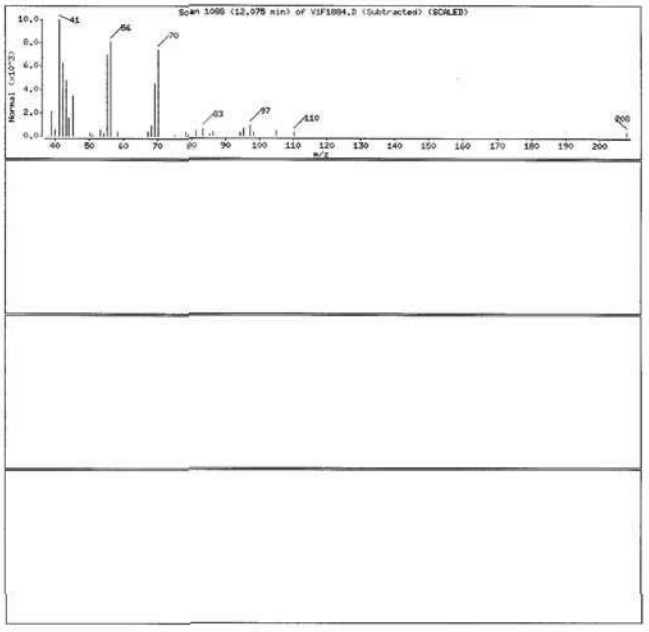
Client ID: AOC3CTCP8 Instrument: v1.i

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1804.D

Date : 30-DEC-2002 17:51

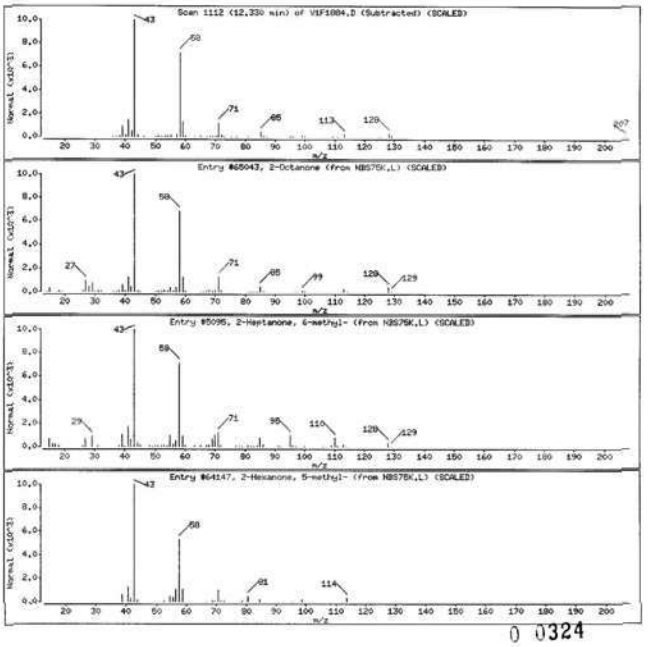
Client ID: AOC3CTCP8 Instrument: v1.i

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Octanone	111-13-7	NBS75K.L	65043	91	C8H16O	128
2-Heptanone, 6-methyl-	928-68-7	NBS75K.L	5095	80	C8H16O	128
2-Hexanone, 5-methyl-	110-12-3	NBS75K.L	64147	78	C7H14O	114



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1804.D

Date : 30-DEC-2002 17:51

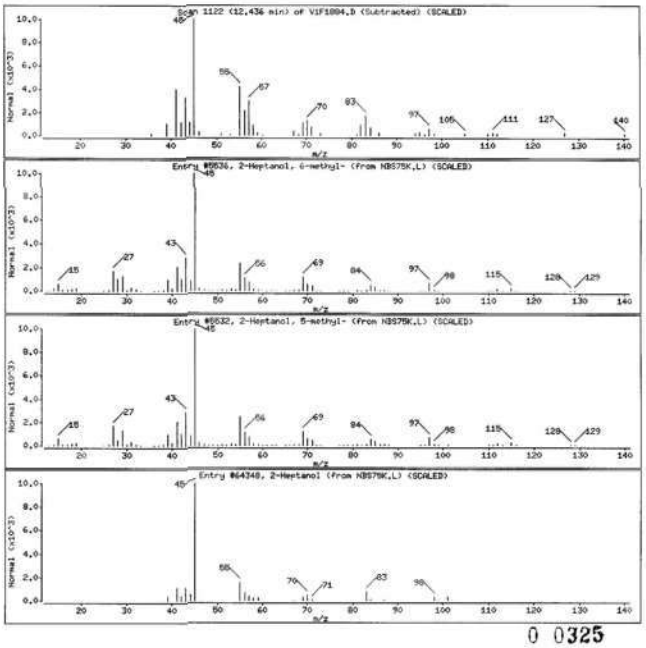
Client ID: AOC3CTCP8 Instrument: v1.i

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Heptanol, 6-methyl-	4730-22-7	NBS75K.L	5536	72	C8H18O	130
2-Heptanol, 5-methyl-	54630-50-1	NBS75K.L	5532	72	C8H18O	130
2-Heptanol	543-49-7	NBS75K.L	64348	72	C7H16O	116



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1804.D

Date : 30-DEC-2002 17:51

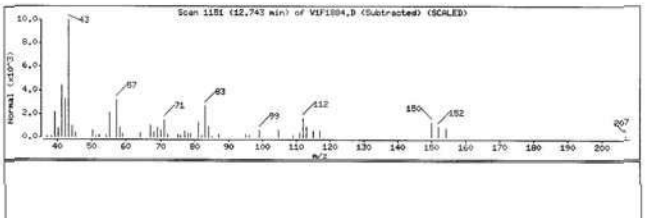
Client ID: AOC3CTCP8 Instrument: v1.i

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021230.B\V1F1884.D

Date : 30-DEC-2002 17:51

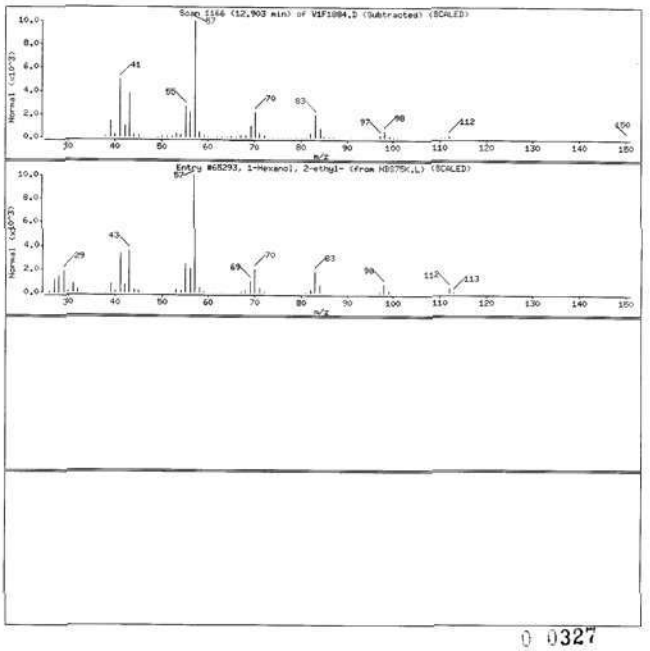
Client ID: AOC3CTCP8 Instrument: v1.1

Sample Info: MRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Hexanol, 2-ethyl-	104-76-7	NBS75K.L	65293	83	C8H18O	130



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021230.B\V1F1884.D

Date : 30-DEC-2002 17:51

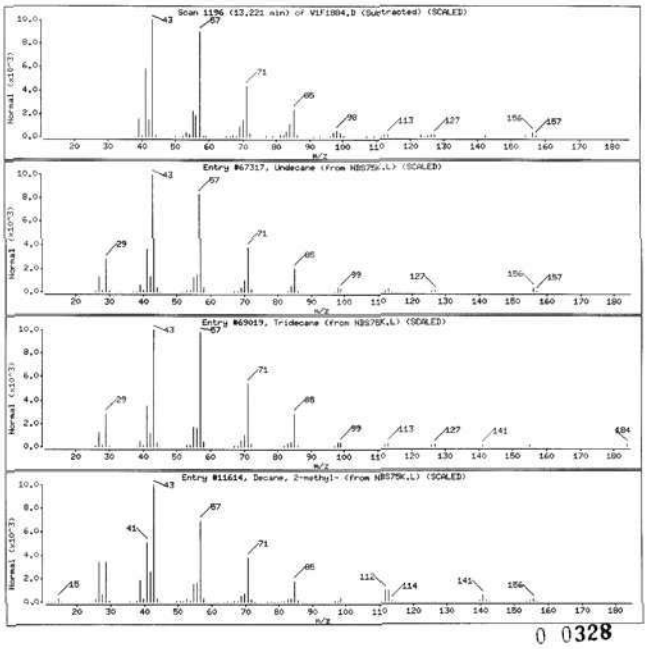
Client ID: AOC3CTCP8 Instrument: v1.1

Sample Info: MRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Undecane	1120-21-4	NBS75K.L	67317	94	C11H24	156
Tridecane	629-50-5	NBS75K.L	69019	90	C13H28	184
Decane, 2-methyl-	6975-98-0	NBS75K.L	11614	80	C11H24	156



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021230.B\V1F1884.D

Date : 30-DEC-2002 17:51

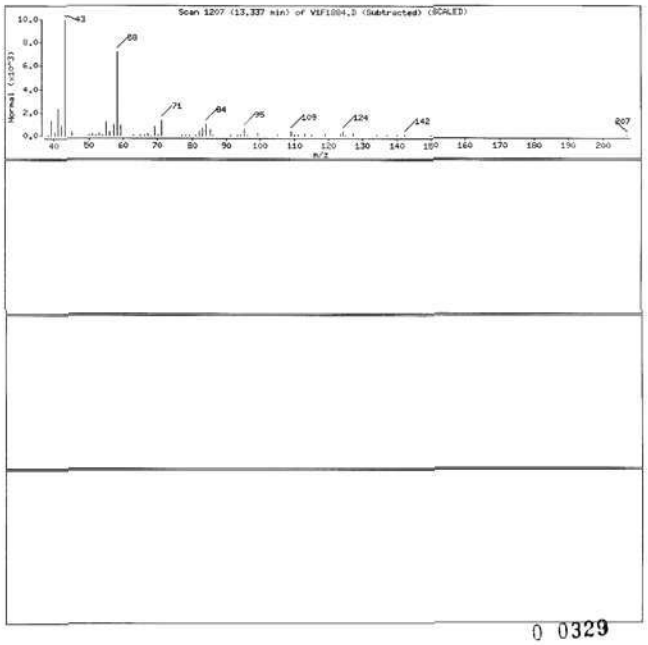
Client ID: AOC3CTCP8 Instrument: v1.1

Sample Info: MRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021230.B\V1F1884.D

Date : 30-DEC-2002 17:51

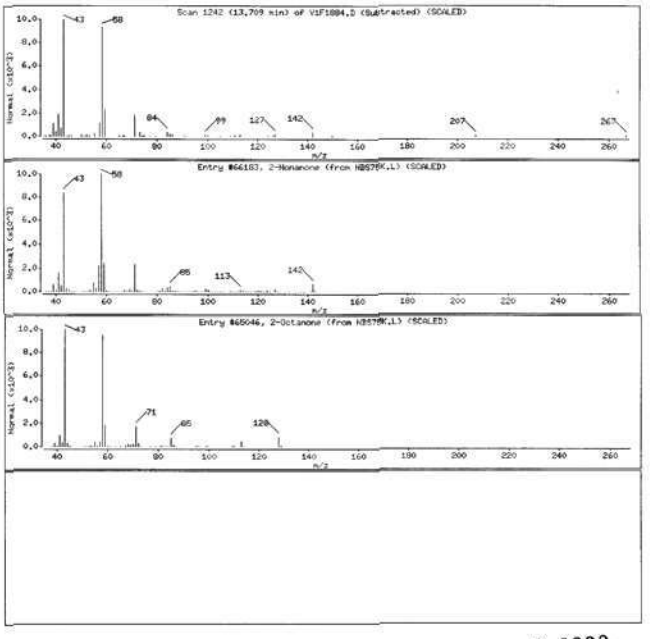
Client ID: AOC3CTCP8 Instrument: v1.1

Sample Info: MRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Nonanone	821-55-6	NBS75K.L	66183	78	C9H18O	142
2-Octanone	111-13-7	NBS75K.L	65046	72	C8H16O	128



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1884.D

Date : 30-DEC-2002 17:51

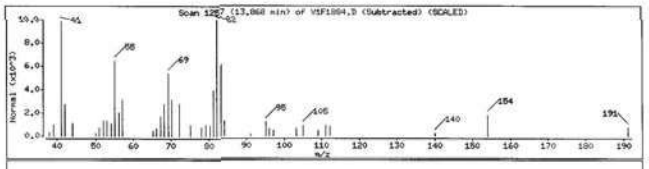
Client ID: AOC3CTCP8 Instrument: v1.i

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1884.D

Date : 30-DEC-2002 17:51

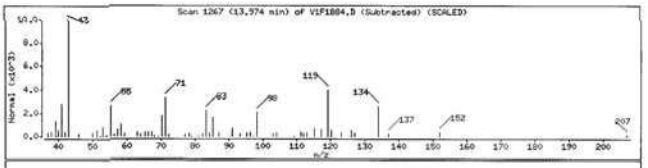
Client ID: AOC3CTCP8 Instrument: v1.i

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1884.D

Date : 30-DEC-2002 17:51

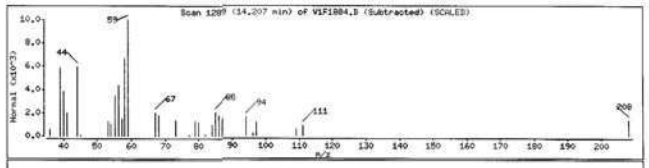
Client ID: AOC3CTCP8 Instrument: v1.i

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1884.D

Date : 30-DEC-2002 17:51

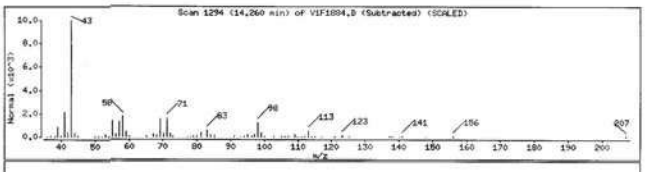
Client ID: AOC3CTCP8 Instrument: v1.i

Sample Info: HRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021230,B\V1F1804.D

Date : 30-DEC-2002 17:51

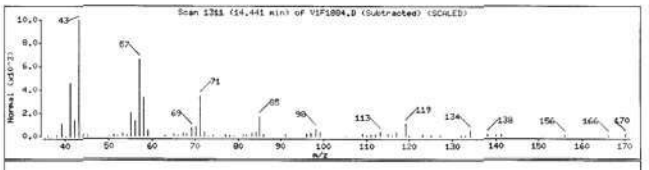
Client ID: AOC3CTCP8 Instrument: v1.1

Sample Info: MRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: SSA

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021230,B\V1F1804.D

Date : 30-DEC-2002 17:51

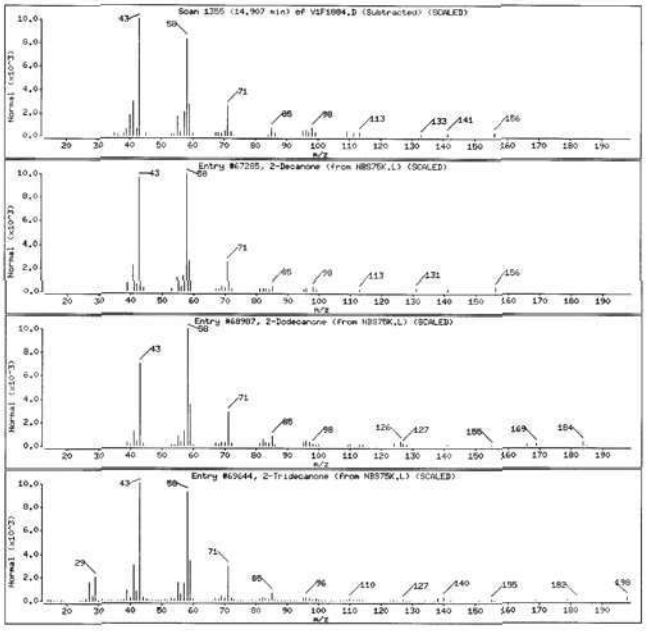
Client ID: AOC3CTCP8 Instrument: v1.1

Sample Info: MRP,A1905-03A,AOC3CTCP8,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2-Decanone	693-54-9	NIST75K.L	67285	90	C10H200	156
2-Dodecanone	6175-49-1	NIST75K.L	68907	78	C12H240	184
2-Tridecanone	593-08-8	NIST75K.L	69644	72	C13H260	198



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP8DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-03ADL

Sample wt/vol: 15.5 (g/mL) G Lab File ID: V6C4246

Level: (low/med) MED Date Received: 12/23/02

% Moisture: not dec. 0 Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	81	U
74-87-3	Chloromethane	81	U
75-01-4	Vinyl Chloride	81	U
74-83-9	Bromomethane	81	U
75-00-3	Chloroethane	81	U
75-69-4	Trichlorofluoromethane	81	U
75-35-4	1,1-Dichloroethene	23	DJ
67-64-1	Acetone	150	D
75-09-2	Methylene Chloride	54	DBJ
107-13-1	Acrylonitrile	81	U
156-60-5	trans-1,2-Dichloroethene	81	U
1634-04-4	Methyl tert-butyl ether	81	U
75-34-3	1,1-Dichloroethane	81	U
78-93-3	2-Butanone	81	U
156-59-2	cis-1,2-Dichloroethene	81	U
590-20-7	2,2-Dichloropropane	81	U
74-97-5	Bromochloromethane	81	U
67-66-3	Chloroform	81	U
109-99-9	Tetrahydrofuran	81	U
71-55-6	1,1,1-Trichloroethane	390	D
563-58-6	1,1-Dichloropropene	81	U
56-23-5	Carbon Tetrachloride	81	U
107-06-2	1,2-Dichloroethane	81	U
71-43-2	Benzene	81	U
79-01-6	Trichloroethene	81	U
78-87-5	1,2-Dichloropropane	81	U
74-95-3	Dibromomethane	81	U
75-27-4	Bromodichloromethane	81	U
10061-01-5	cis-1,3-Dichloropropene	81	U
108-10-1	4-Methyl-2-pentanone	81	U
108-88-3	Toluene	25	DJ
10061-02-6	trans-1,3-Dichloropropene	81	U
79-00-5	1,1,2-Trichloroethane	81	U
142-28-9	1,3-Dichloropropane	81	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP8DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-03ADL

Sample wt/vol: 15.5 (g/mL) G Lab File ID: V6C4246

Level: (low/med) MED Date Received: 12/23/02

% Moisture: not dec. 0 Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	81	U
591-78-6	2-Hexanone	81	U
124-48-1	Dibromochloromethane	81	U
106-93-4	1,2-Dibromoethane	81	U
108-90-7	Chlorobenzene	81	U
630-20-6	1,1,1,2-Tetrachloroethane	81	U
100-41-4	Ethylbenzene	81	U
	m,p-Xylene	81	U
95-47-6	o-Xylene	81	U
1330-20-7	Xylene (Total)	81	U
100-42-5	Styrene	81	U
75-25-2	Bromoform	81	U
98-82-8	Isopropylbenzene	81	U
79-34-5	1,1,2,2-Tetrachloroethane	81	U
108-86-1	Bromobenzene	81	U
96-18-4	1,2,3-Trichloropropane	81	U
103-65-1	n-Propylbenzene	81	U
95-49-8	2-Chlorotoluene	81	U
108-67-8	1,3,5-Trimethylbenzene	81	U
106-43-4	4-Chlorotoluene	81	U
98-06-6	tert-Butylbenzene	81	U
95-63-6	1,2,4-Trimethylbenzene	18	DJ
135-98-8	sec-Butylbenzene	81	U
99-87-6	4-Isopropyltoluene	81	U
541-73-1	1,3-Dichlorobenzene	81	U
106-46-7	1,4-Dichlorobenzene	81	U
104-51-8	n-Butylbenzene	81	U
95-50-1	1,2-Dichlorobenzene	81	U
96-12-8	1,2-Dibromo-3-chloropropane	81	U
120-82-1	1,2,4-Trichlorobenzene	81	U
87-68-3	Hexachlorobutadiene	81	U
91-20-3	Naphthalene	40	DJ
87-61-6	1,2,3-Trichlorobenzene	81	U
544-10-5	1-Chlorohexane	81	U

FORM I VOA OLM03.0

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AOC3CTCP8DL

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-03ADL

Sample wt/vol: 15.5 (g/mL) G Lab File ID: V6C4246

Level: (low/med) MED Date Received: 12/23/02

% Moisture: not dec. _____ Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

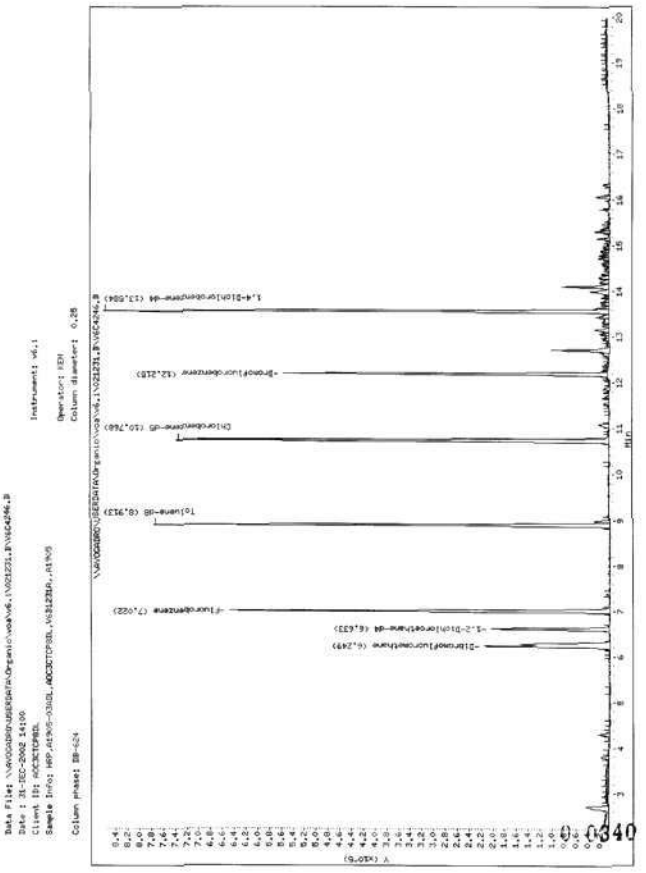
Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100(uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	2.74	87	JD
2.		UNKNOWN	12.74	100	JD
3.		STRAIGHT-CHAIN ALKANE	14.12	75	JD
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\V6C4246.D
Report Date: 10-Jan-2003 11:18

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\V6C4246.D
Lab Smp Id: A1905-03ADL Client Smp ID: AOC3CTCP8DL
Inj Date : 31-DEC-2002 14:00
Operator : KEN Inst ID: v6.i
Smp Info : HRP,A1905-03ADL,AOC3CTCP8DL,V6B1231A,,A1905
Misc Info : 23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\v68260.m
Meth Date : 09-Jan-2003 14:38 mtl Quant Type: ISTD
Cal Date : 24-DEC-2002 17:54 Cal File: V6C4111.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf*(Vt*5000)/(Va*Ws*((100-M)/100)))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	15.500	Weight of sample (g)
M	0.000	% Moisture (not decanted)
Vt	5.000	Methanol extract volume (mL)
Va	100.000	Aliquot of methanol (uL)

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
	8	1,1-Dichloroethene	96	3.811	3.798	(0.543)	7160	1.42428	23(aM)
	9	Acetone	43	3.829	3.840	(0.545)	8693	9.05972	150
	14	Methylene Chloride	84	4.322	4.327	(0.615)	16459	3.33635	54(a)
S	30	Dibromofluoromethane	113	6.250	6.248	(0.890)	184429	45.8985	740
	31	1,1,1-Trichloroethane	97	6.298	6.303	(0.897)	131462	24.0166	390
S	35	1,2-Dichloroethane-d4	102	6.639	6.638	(0.945)	45687	43.5234	700
*	38	Fluorobenzene	96	7.022	7.027	(1.000)	897894	50.0000	
S	47	Toluene-d8	98	8.913	8.918	(0.828)	830788	50.7338	820
	48	Toluene	91	8.992	9.003	(1.261)	30720	1.52756	25(a)
*	57	Chlorobenzene-d5	117	10.768	10.767	(1.000)	676037	50.0000	
S	68	Bromofluorobenzene	95	12.215	12.220	(1.134)	274047	45.9491	740
	77	1,2,4-Trimethylbenzene	105	13.182	13.181	(0.970)	19809	1.10911	18(a)
*	81	1,4-Dichlorobenzene-d4	152	13.584	13.589	(1.000)	333112	50.0000	

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\V6C4246.D
Report Date: 10-Jan-2003 11:18

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
83 Naphthalene	128	16.089	16.094	(1.164)	31195	2.45857	40(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\V6C4246.D
Report Date: 10-Jan-2003 11:18

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\V6C4246.D
Lab Smp Id: A1905-03ADL Client Smp ID: AOC3CTCP8DL
Inj Date : 31-DEC-2002 14:00
Operator : KEN Inst ID: v6.i
Smp Info : HRP,A1905-03ADL,AOC3CTCP8DL,V6B1231A,,A1905
Misc Info : 23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\v68260.m
Meth Date : 09-Jan-2003 14:38 mtl Quant Type: ISTD
Cal Date : 24-DEC-2002 17:54 Cal File: V6C4111.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf*(Vt*5000)/(Va*Ws*((100-M)/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	15.500	Weight of sample (g)
M	0.000	% Moisture (not decanted)
Vt	5.000	Methanol extract volume (mL)
Va	100.000	Aliquot of methanol (uL)

ISTD	RT	AREA	AMOUNT
* 38 Fluorobenzene	7.022	1745265	50.000
* 81 1,4-Dichlorobenzene-d4	13.584	1956488	50.000

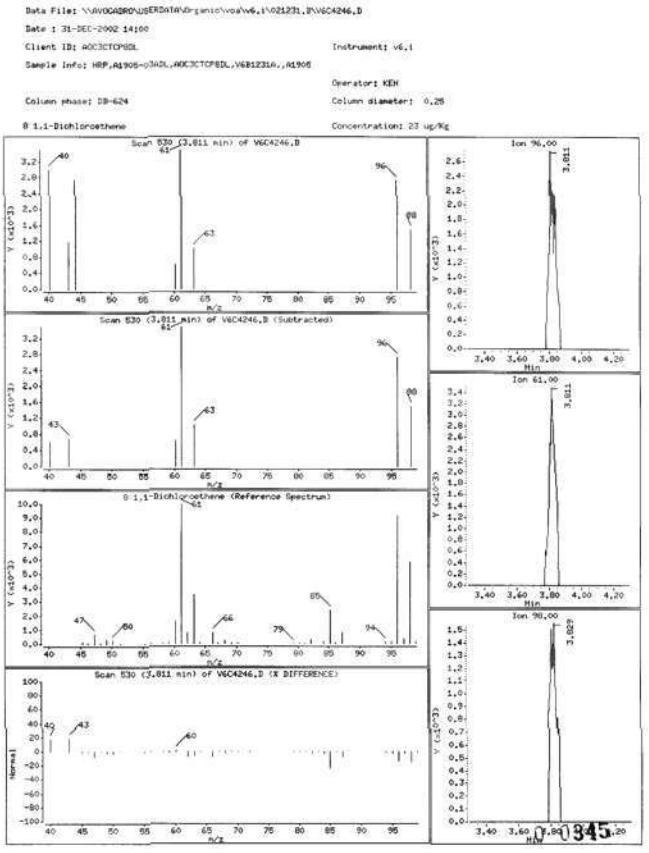
	CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	QMND #
Unknown				CAS #:			
2.741	187736	5.38015717		RT	0	0	38

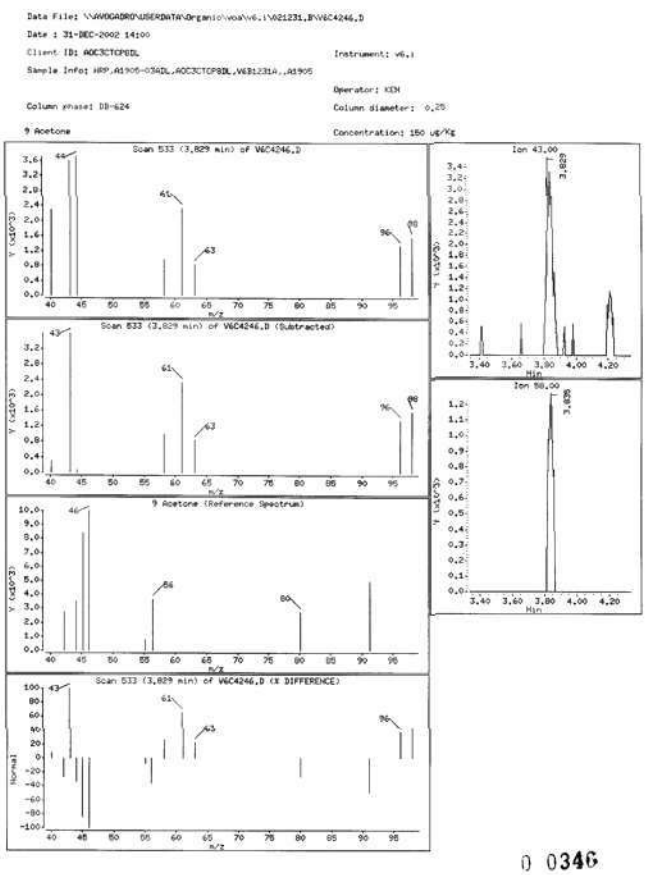
Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\V6C4246.D
Report Date: 10-Jan-2003 11:18

	CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	QMND #
Unknown				CAS #:			
12.744	253343	8.47443278		100	0	0	81
Straight-chain Alkane				CAS #:			
14.125	182158	4.65517805		75	0	0	81(L)

QC Flag Legend

L - Operator selected an alternate library search match.





Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\V6C4246.D

Date : 31-DEC-2002 14:00

Client ID: AOC3CTCP8DL

Instrument: v6.i

Sample Info: HRP,A1905-03ADL,AOC3CTCP8DL,V6B1231A,,A1905

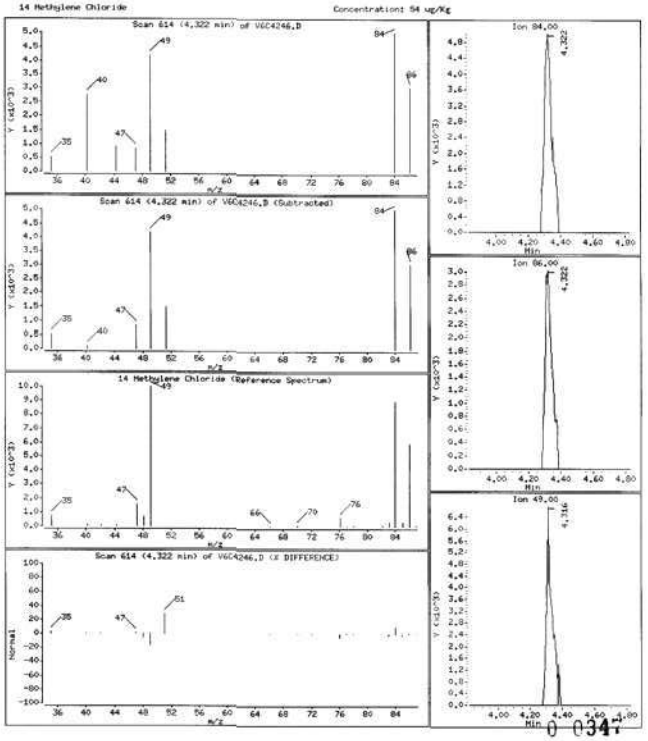
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

14 Methylene Chloride

Concentration: 54 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\V6C4246.D

Date : 31-DEC-2002 14:00

Client ID: AOC3CTCP8DL

Instrument: v6.i

Sample Info: HRP,A1905-03ADL,AOC3CTCP8DL,V6B1231A,,A1905

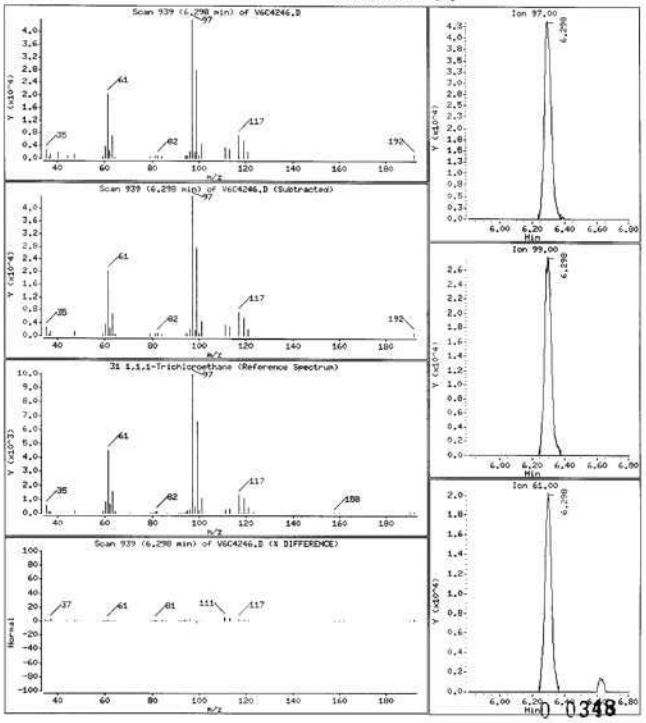
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

31 1,1,1-Trichloroethane

Concentration: 370 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\V6C4246.D

Date : 31-DEC-2002 14:00

Client ID: AOC3CTCP8DL

Instrument: v6.i

Sample Info: HRP,A1905-03ADL,AOC3CTCP8DL,V6B1231A,,A1905

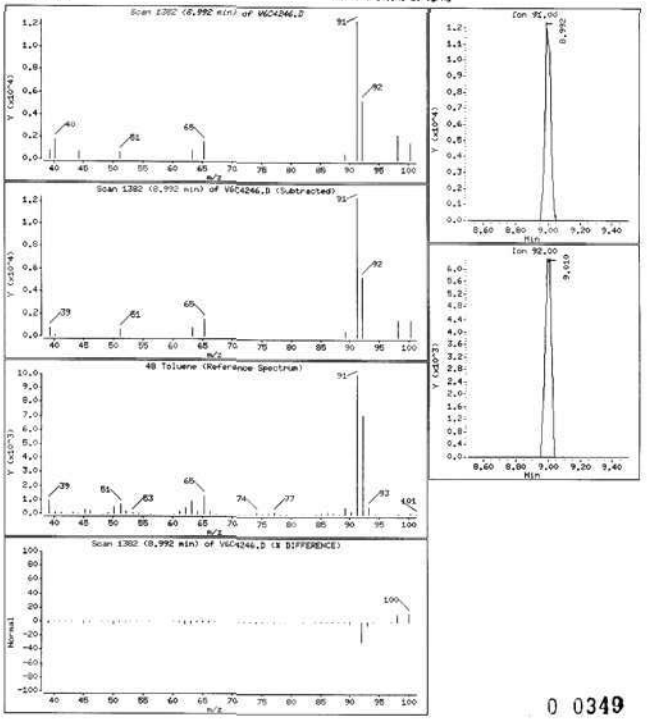
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

48 Toluene

Concentration: 25 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\V6C4246.D

Date : 31-DEC-2002 14:00

Client ID: AOC3CTCP8DL

Instrument: v6.i

Sample Info: HRP,A1905-03ADL,AOC3CTCP8DL,V6B1231A,,A1905

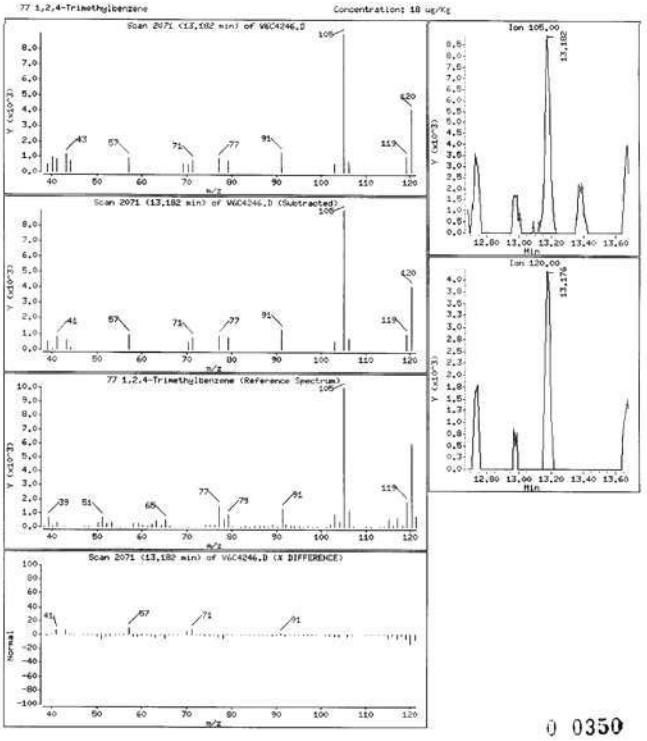
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

77 1,2,4-Trimethylbenzene

Concentration: 18 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\V6C4246.D

Date : 31-DEC-2002 14:00

Client ID: AOC3CTCP8DL

Instrument: v6.i

Sample Info: HRP,A1905-03ADL,AOC3CTCP8DL,V631231A,,A1905

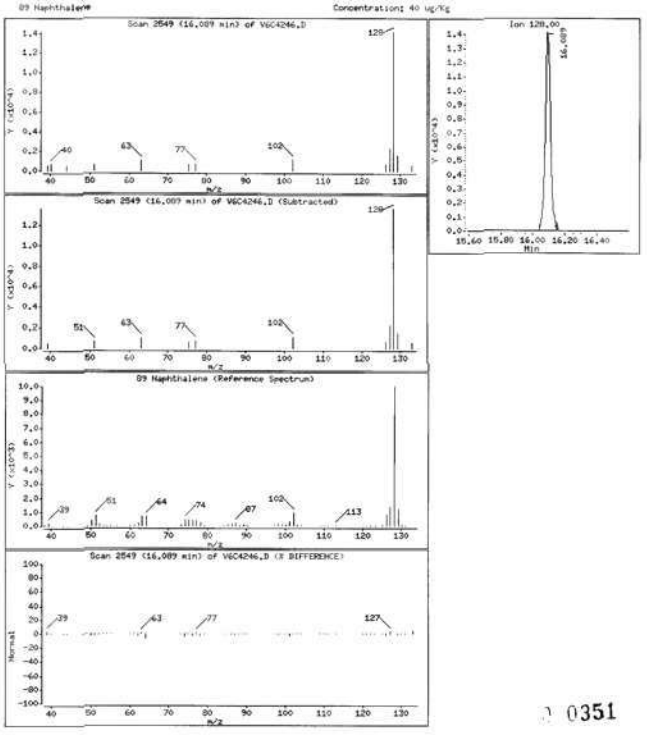
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

09 Naphthalene

Concentration: 40 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\V6C4246.D

Date : 31-DEC-2002 14:00

Client ID: AOC3CTCP8DL

Instrument: v6.i

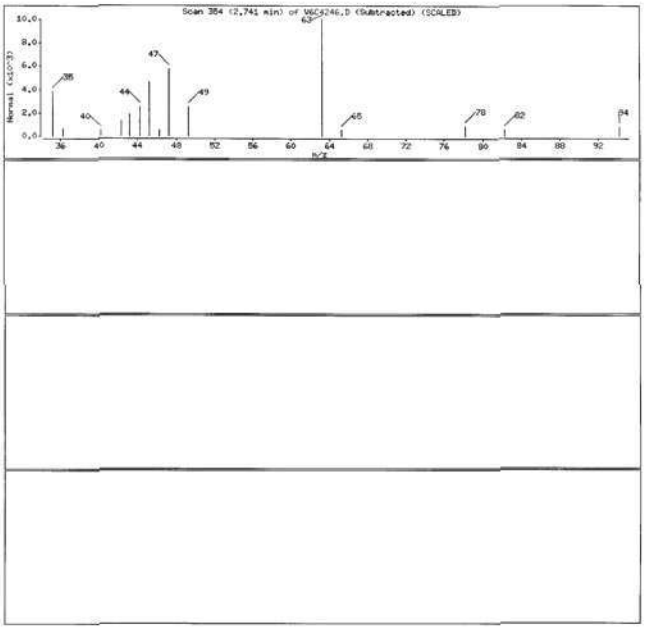
Sample Info: HRP,A1905-03ADL,AOC3CTCP8DL,V631231A,,A1905

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\V6C4246.D

Date : 31-DEC-2002 14:00

Client ID: AOC3CTCP8DL

Instrument: v6.i

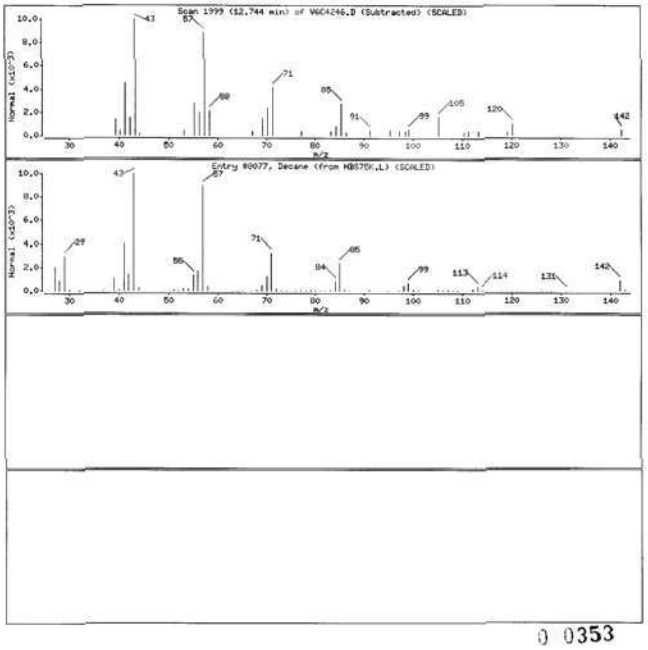
Sample Info: HRP,A1905-03ADL,AOC3CTCP8DL,V631231A,,A1905

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Decane	124-18-5	NBS75K.L	8077	70	C10H22	142



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\V6C4246.D

Date : 31-DEC-2002 14:00

Client ID: AOC3CTCP8DL

Instrument: v6.i

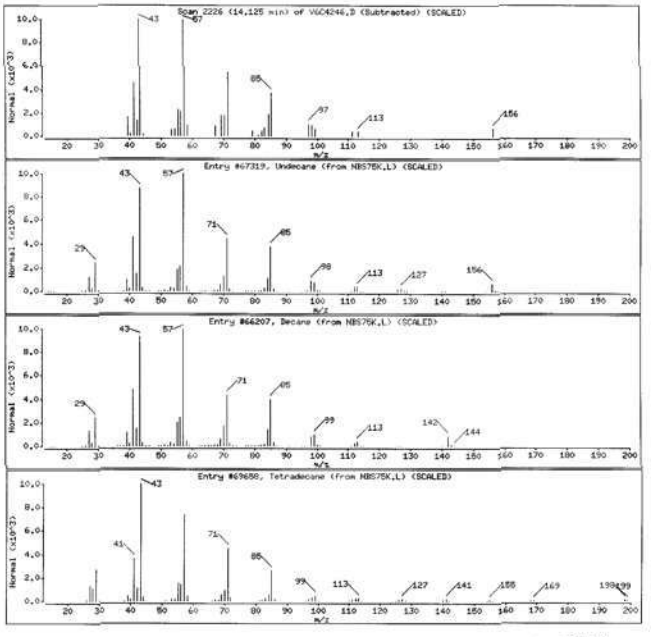
Sample Info: HRP,A1905-03ADL,AOC3CTCP8DL,V631231A,,A1905

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Undecane	1120-21-4	NBS75K.L	67319	90	C11H24	156
Decane	124-18-5	NBS75K.L	66207	72	C10H22	142
Tetradecane	629-59-4	NBS75K.L	69658	64	C14H30	198



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB4902

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-04A
Sample wt/vol: 13.1 (g/mL) G Lab File ID: V1F1880
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 9 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	19	
75-09-2	Methylene Chloride	0.5	JB
156-60-5	trans-1,2-Dichloroethene	2	U
1634-04-4	Methyl tert-butyl ether	2	U
75-34-3	1,1-Dichloroethane	2	U
78-93-3	2-Butanone	2	U
156-59-2	cis-1,2-Dichloroethene	2	U
590-20-7	2,2-Dichloropropane	2	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
109-99-9	Tetrahydrofuran	2	U
71-55-6	1,1,1-Trichloroethane	2	U
563-58-6	1,1-Dichloropropene	2	U
56-23-5	Carbon Tetrachloride	2	U
107-06-2	1,2-Dichloroethane	2	U
71-43-2	Benzene	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-pentanone	2	U
108-88-3	Toluene	2	U
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
127-18-4	Tetrachloroethene	2	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB4902

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-04A
Sample wt/vol: 13.1 (g/mL) G Lab File ID: V1F1880
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 9 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	2	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	2	U
	m,p-Xylene	2	U
95-47-6	o-Xylene	2	U
1330-20-7	Xylene (Total)	2	U
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
106-43-4	4-Chlorotoluene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
99-87-6	4-Isopropyltoluene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
87-68-3	Hexachlorobutadiene	2	U
91-20-3	Naphthalene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U
544-10-5	1-Chlorohexane	2	U
107-13-1	Acrylonitrile	2	U

FORM I VOA OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

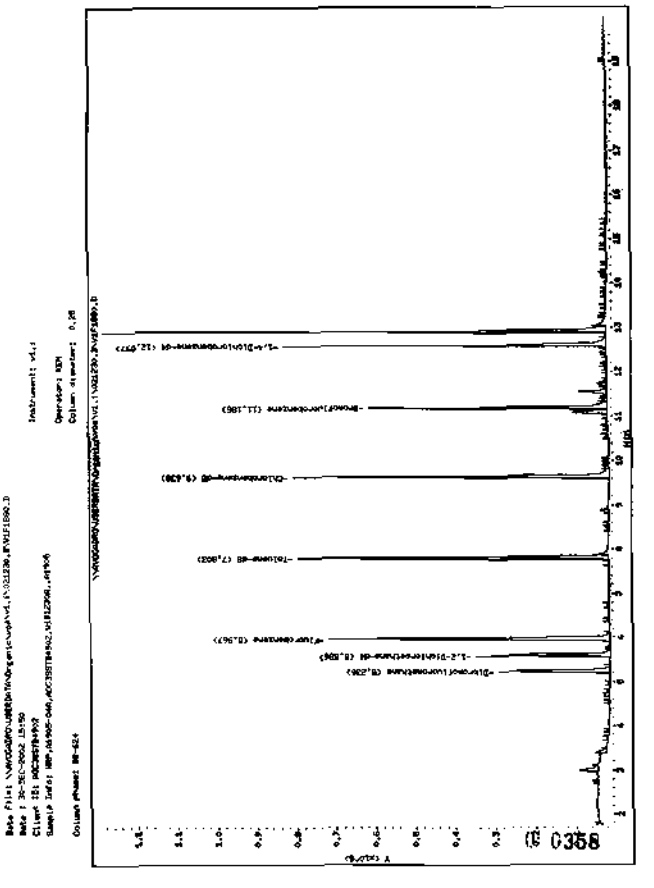
EPA SAMPLE NO.
AOC3SSTB4902

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-04A
Sample wt/vol: 13.1 (g/mL) G Lab File ID: V1F1880
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 9 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	11.08	4	J
2.		UNKNOWN	11.56	3	J
3.		UNKNOWN	12.90	34	J
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1880.D
Report Date: 09-Jan-2003 16:24

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1880.D
Lab Smp Id: A1905-04A Client Smp ID: AOC3SSTB4902
Inj Date : 30-DEC-2002 15:50
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-04A,AOC3SSTB4902,V1B1230A,,A1905
Misc Info : 23-DEC-02,,,,,,,13.1
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260M.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	13.100	Weight of sample (g)
M	9.000	% Moisture (not decanted)

Compounds	Quant Ion	RT	Exp RT	Rel RT	Response	Concentration (ug/L)	Final (ug/Kg)
9 Acetone	43	2.997	2.999	(0.903)	117651	45.2658	19
14 Methylene Chloride	84	3.402	3.411	(0.573)	9033	1.30148	0.51[a]
22 2-Butanone	43	4.969	4.748	(0.789)	14141	3.84259	1.5[a]
6 30 Dibromofluoromethane	113	5.328	5.275	(0.976)	324638	49.2130	21
8 35 1,2-Dichloroethane-d4	102	5.586	5.586	(0.916)	94012	50.2808	21
* 39 Fluorobenzene	96	5.947	5.957	(1.000)	821388	50.0000	
8 47 Toluene-d8	98	7.603	7.803	(0.810)	676131	48.3254	18
* 57 Chlorobenzene-d5	117	9.638	9.638	(1.000)	565059	50.0000	
8 68 Bromofluorobenzene	95	11.184	11.187	(1.161)	254591	42.1726	18
* 81 1,4-Dichlorobenzene-d4	152	12.597	12.597	(1.000)	366886	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

1/9/03

0 0359

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1880.D
Report Date: 09-Jan-2003 16:24

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1880.D
Lab Smp Id: A1905-04A Client Smp ID: AOC3SSTB4902
Inj Date : 30-DEC-2002 15:50
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-04A,AOC3SSTB4902,V1B1230A,,A1905
Misc Info : 23-DEC-02,,,,,,,13.1
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260M.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	13.100	Weight of sample (g)
M	9.000	% Moisture (not decanted)

ISTD	RT	AREA	AMOUNT
* 57 Chlorobenzene-d5	9.638	1845632	50.000
* 81 1,4-Dichlorobenzene-d4	12.597	1592595	50.000

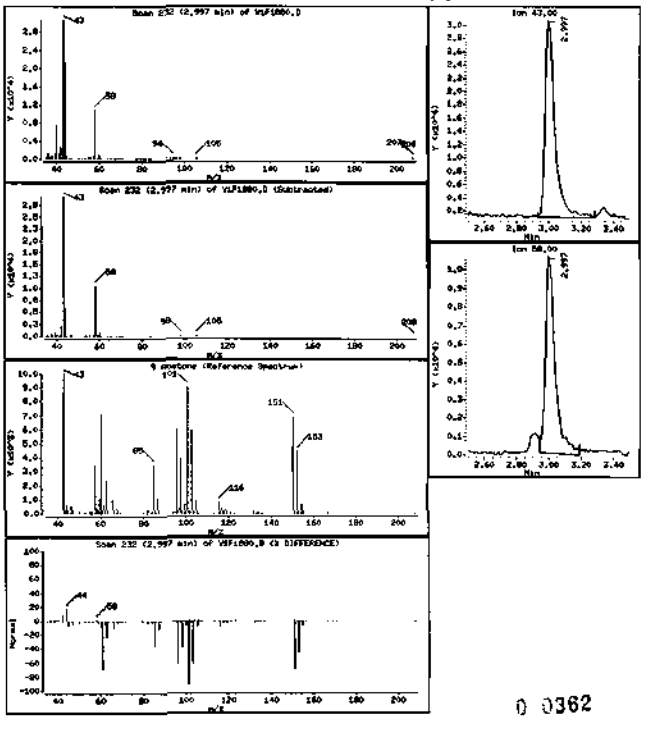
RT	Area	Concentrations On-Col (ug/L)	Concentrations Final (ug/Kg)	Qual	Quant Library	Quant Lib Entry	Cmpd #
Unknown			CAS #:				
11.080	318587	8.28801929	4	0		0	97
Unknown			CAS #:				
11.836	210113	5.89558098	3	0		0	81

0 0360

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1880.D
Report Date: 09-Jan-2003 16:24

RT	Area	Concentrations On-Col (ug/L)	Concentrations Final (ug/Kg)	Qual	Quant Library	Quant Lib Entry	Cmpd #
Unknown			CAS #:				
12.995	3144415	79.9454054	34	0		0	82

0 0361



0 0362

Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1880.D

Date : 30-DEC-2002 15:50

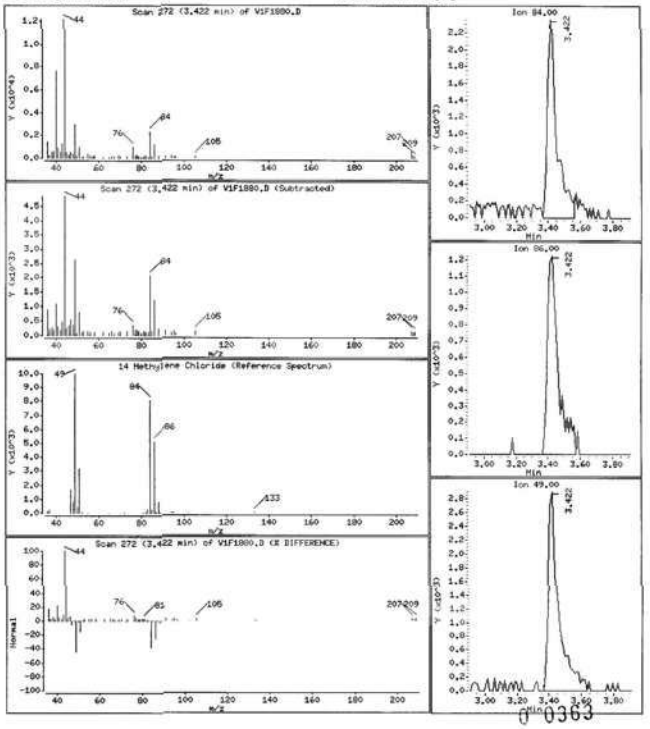
Client ID: AOC3SSTB4902 Instrument: v1.i

Sample Info: HRP,A1905-04A,AOC3SSTB4902,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

14 Methylene Chloride Concentration: 0.5 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1880.D

Date : 30-DEC-2002 15:50

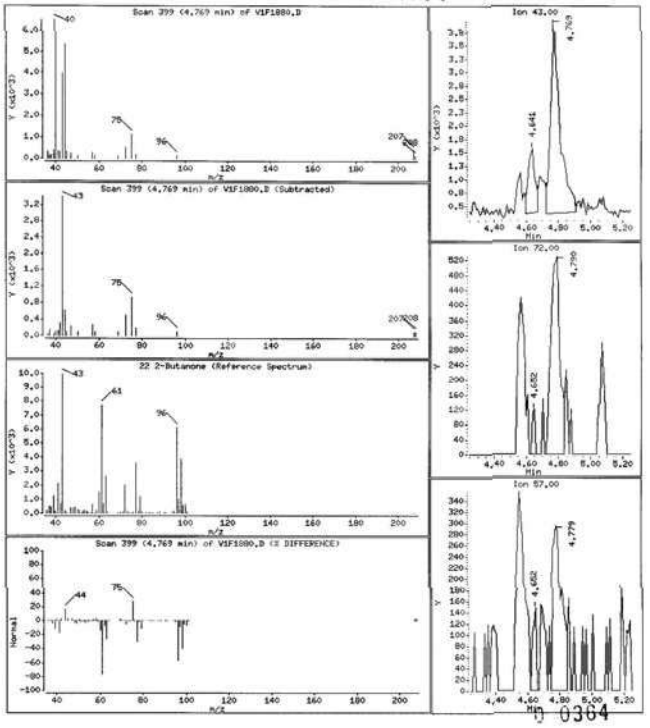
Client ID: AOC3SSTB4902 Instrument: v1.i

Sample Info: HRP,A1905-04A,AOC3SSTB4902,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

22 2-Butanone Concentration: 2 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1880.D

Date : 30-DEC-2002 15:50

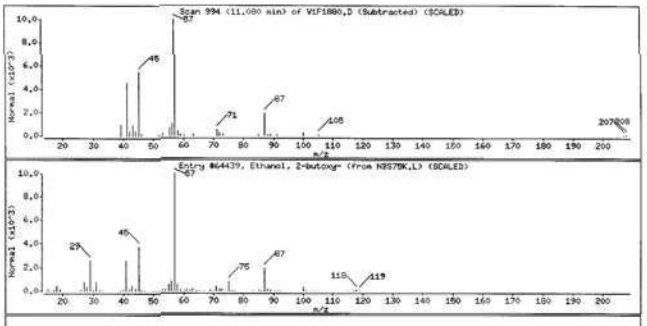
Client ID: AOC3SSTB4902 Instrument: v1.i

Sample Info: HRP,A1905-04A,AOC3SSTB4902,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Ethanol, 2-butoxy-	111-76-2	NIST5K,L	64439	64	C6H14O2	118



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1880.D

Date : 30-DEC-2002 15:50

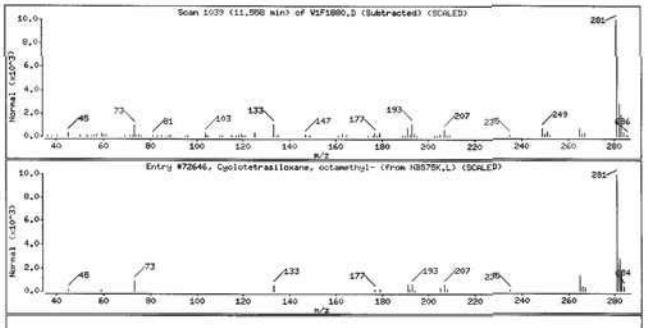
Client ID: AOC3SSTB4902 Instrument: v1.i

Sample Info: HRP,A1905-04A,AOC3SSTB4902,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST5K,L	72646	80	C8H24O4Si4	296



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1_1\021230.B\V1F1880.D

Date : 30-DEC-2002 15:50

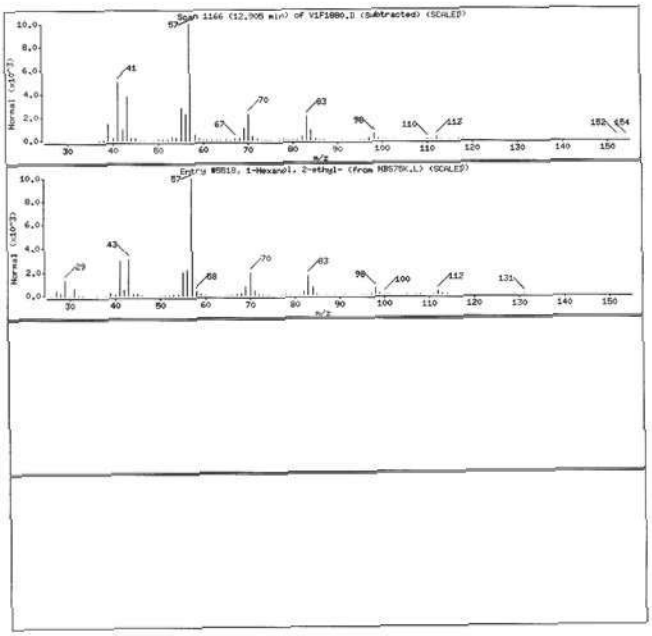
Client ID: AOC3SSTB4902 Instrument: v1.1

Sample Info: HRP,A1905-04A,AOC3SSTB4902,V1R1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Hexanol, 2-ethyl-	104-76-7	NIST75K.L	6518	78	C8H18O	130



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB5312

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-05A

Sample wt/vol: 15.1 (g/mL) G Lab File ID: V1F1881

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 7 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	22	
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	2	U
1634-04-4	Methyl tert-butyl ether	2	U
75-34-3	1,1-Dichloroethane	2	U
78-93-3	2-Butanone	2	
156-59-2	cis-1,2-Dichloroethene	2	U
590-20-7	2,2-Dichloropropane	2	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
109-99-9	Tetrahydrofuran	2	U
71-55-6	1,1,1-Trichloroethane	1	J
563-58-6	1,1-Dichloropropene	2	U
56-23-5	Carbon Tetrachloride	2	U
107-06-2	1,2-Dichloroethane	2	U
71-43-2	Benzene	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-pentanone	2	U
108-88-3	Toluene	2	U
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
127-18-4	Tetrachloroethene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB5312

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-05A

Sample wt/vol: 15.1 (g/mL) G Lab File ID: V1F1881

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 7 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	2	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	2	U
	m,p-Xylene	2	U
95-47-6	o-Xylene	2	U
1330-20-7	Xylene (Total)	2	U
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
106-43-4	4-Chlorotoluene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
99-87-6	4-Isopropyltoluene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
87-68-3	Hexachlorobutadiene	2	U
91-20-3	Naphthalene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U
544-10-5	1-Chlorohexane	2	U
107-13-1	Acrylonitrile	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3SSTB5312

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-05A

Sample wt/vol: 15.1 (g/mL) G Lab File ID: V1F1881

Level: (low/med) LOW Date Received: 12/23/02

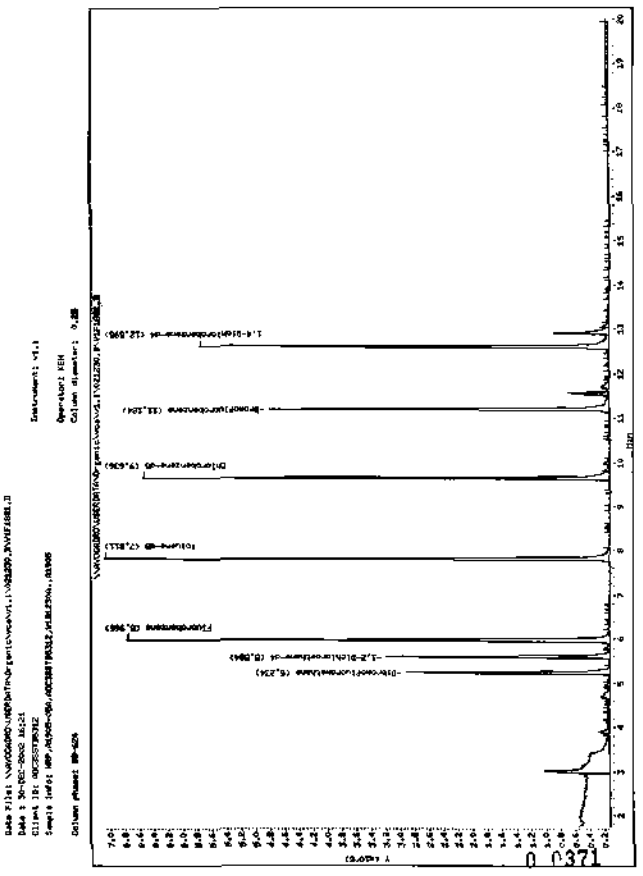
% Moisture: not dec. 7 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	11.56	2	NJ
2.	UNKNOWN	12.91	3	J
3.	UNKNOWN	19.56	3	J
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				



0 0371

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1881.D
Report Date: 09-Jan-2003 16:24

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1881.D
Lab Smp Id: A1905-05A Client Smp ID: AOC3SSTB5312
Inj Date : 30-DEC-2002 16:21
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-05A,AOC3SSTB5312,V1B1230A,,A1905
Misc Info : 23-DEC-02,,,,,,,15.1
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	15.100	Weight of sample (g)
M	7.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	RRT	SAL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
9 Acetone	43	3.006	0.998	(0.506)	144555	62.3250	22
22 2-Butanone	43	4.747	1.748	(0.799)	18491	5.76701	2(B)
10 Dibromofluoromethane	113	5.234	0.935	(0.877)	207099	50.5193	18
31 1,1,1 Trichloroethane	97	5.355	0.157	(0.681)	23866	4.08553	1(a)
35 1,2-Dichloroethane-d4	102	5.384	0.986	(0.956)	81193	52.0308	18
39 Fluorobenzene	96	5.365	0.987	(1.000)	938002	50.0000	
47 Toluene-d8	98	7.811	1.862	(0.811)	598264	48.4594	17
57 Chlorobenzene-d5	117	9.838	0.478	(1.000)	477821	50.0000	
66 Bromofluorobenzene	95	11.184	11.167	(1.161)	213930	61.7895	15
81 1,4-Dichlorobenzene-d4	152	12.595	12.597	(1.000)	380230	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

1/9/03

0 0372

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1881.D
Report Date: 09-Jan-2003 16:24

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1881.D
Lab Smp Id: A1905-05A Client Smp ID: AOC3SSTB5312
Inj Date : 30-DEC-2002 16:21
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-05A,AOC3SSTB5312,V1B1230A,,A1905
Misc Info : 23-DEC-02,,,,,,,15.1
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

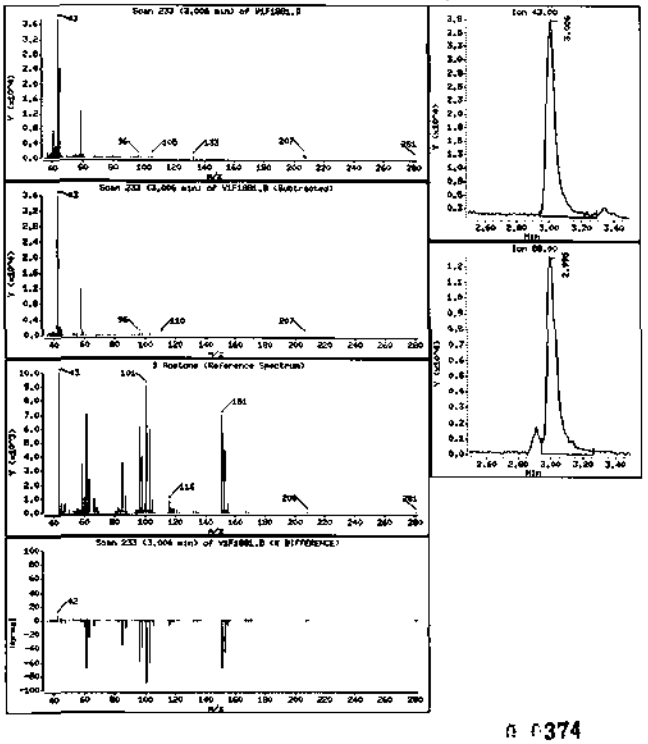
Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	15.100	Weight of sample (g)
M	7.000	% Moisture (not decanted)

ISTD	RT	AREA	AMOUNT
* 81 1,4-Dichlorobenzene-d4	12.595	1269272	50.000

RT	AREA	CONCENTRATIONS ON-COL: ug/L	CONCENTRATIONS Final: ug/Kg	QUANT QUAL	QUANT LIBRARY	QUANT SIM ENTRY	QUANT CPND #
Cyclotetrasiloxane, octamethyl-					CAS #: 556-67-2		
11.555	138581	5.16989317		3 97	HRS75K.L	81408	81
Unknown					CAS #:		
12.914	231359	8.71991977		3 0		0	81
Unknown					CAS #:		
19.565	226501	8.93563823		3 0		0	81

0 0373



0 0374

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1881.D

Date : 30-DEC-2002 16:21

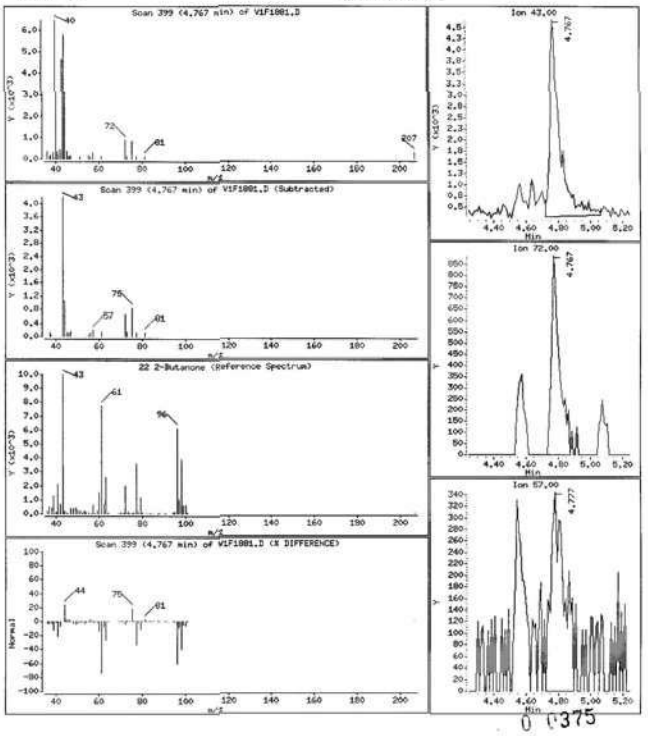
Client ID: AOC3SSTB5312 Instrument: v1.i

Sample Info: HRP,A1905-05A,AOC3SSTB5312,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

22 2-Butanone Concentration: 2 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1881.D

Date : 30-DEC-2002 16:21

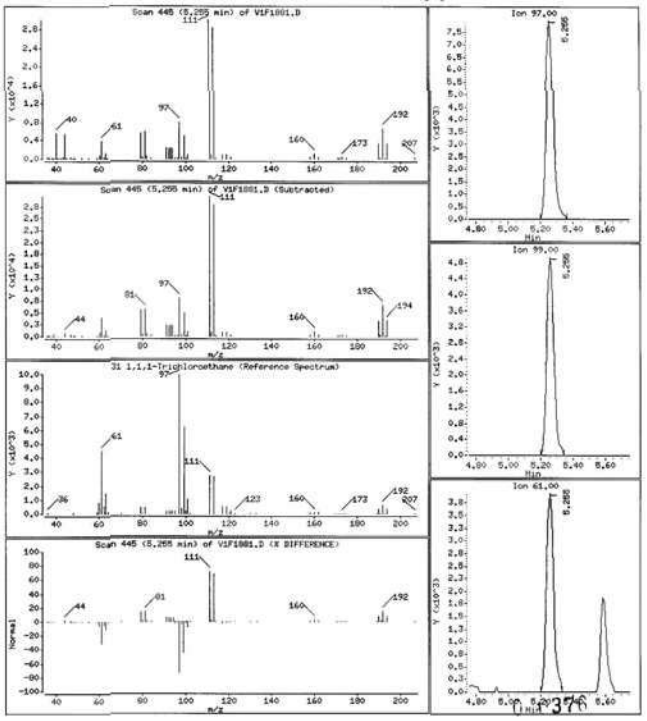
Client ID: AOC3SSTB5312 Instrument: v1.i

Sample Info: HRP,A1905-05A,AOC3SSTB5312,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

31 1,1,1-Trichloroethane Concentration: 1 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1881.D

Date : 30-DEC-2002 16:21

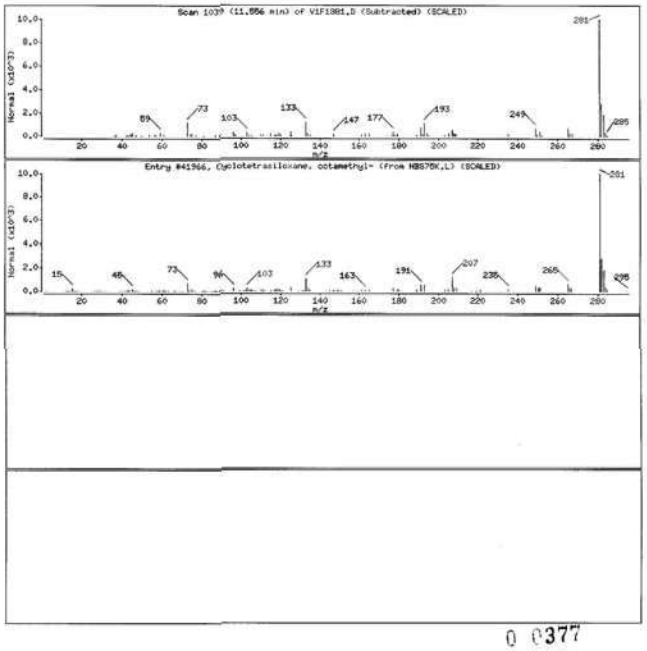
Client ID: AOC3SSTB5312 Instrument: v1.i

Sample Info: HRP,A1905-05A,AOC3SSTB5312,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS75K.L	41966	87	C8H24O4Si4	296



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1881.D

Date : 30-DEC-2002 16:21

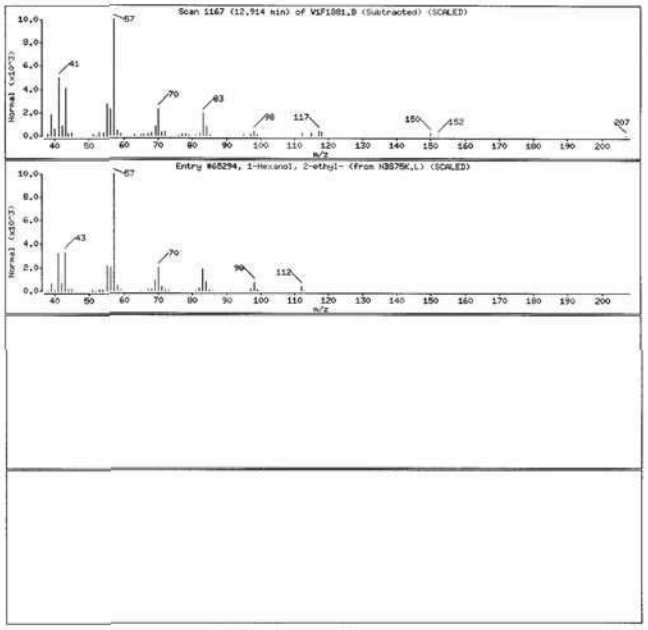
Client ID: AOC3SSTB5312 Instrument: v1.i

Sample Info: HRP,A1905-05A,AOC3SSTB5312,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Hexanol, 2-ethyl-	104-76-7	NBS75K.L	65294	72	C8H18O	130



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1881.D

Date : 30-DEC-2002 16:21

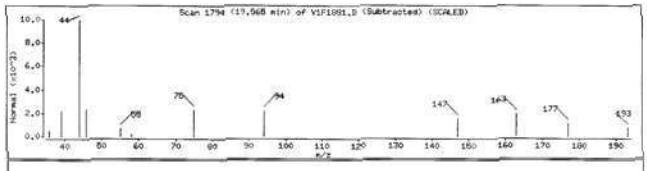
Client ID: #OC3SSTB5312 Instrument: v1.i

Sample Info: MRP,A1905-06A,AOC3SSTB5312,V1R1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Unknown			0	0		0



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB5402

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-06A

Sample wt/vol: 15.1 (g/mL) G Lab File ID: V1F1882

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 9 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	18	
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	2	U
1634-04-4	Methyl tert-butyl ether	2	U
75-34-3	1,1-Dichloroethane	2	U
78-93-3	2-Butanone	2	
156-59-2	cis-1,2-Dichloroethene	2	U
590-20-7	2,2-Dichloropropane	2	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
109-99-9	Tetrahydrofuran	2	U
71-55-6	1,1,1-Trichloroethane	2	U
563-58-6	1,1-Dichloropropene	2	U
56-23-5	Carbon Tetrachloride	2	U
107-06-2	1,2-Dichloroethane	2	U
71-43-2	Benzene	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-pentanone	2	U
108-88-3	Toluene	2	U
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
127-18-4	Tetrachloroethene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB5402

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-06A

Sample wt/vol: 15.1 (g/mL) G Lab File ID: V1F1882

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 9 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	2	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	2	U
	m,p-Xylene	2	U
95-47-6	o-Xylene	2	U
1330-20-7	Xylene (Total)	2	U
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
106-43-4	4-Chlorotoluene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
99-87-6	4-Isopropyltoluene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
87-68-3	Hexachlorobutadiene	2	U
91-20-3	Naphthalene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U
544-10-5	1-Chlorohexane	2	U
107-13-1	Acrylonitrile	2	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3SSTB5402

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-06A

Sample wt/vol: 15.1 (g/mL) G Lab File ID: V1F1882

Level: (low/med) LOW Date Received: 12/23/02

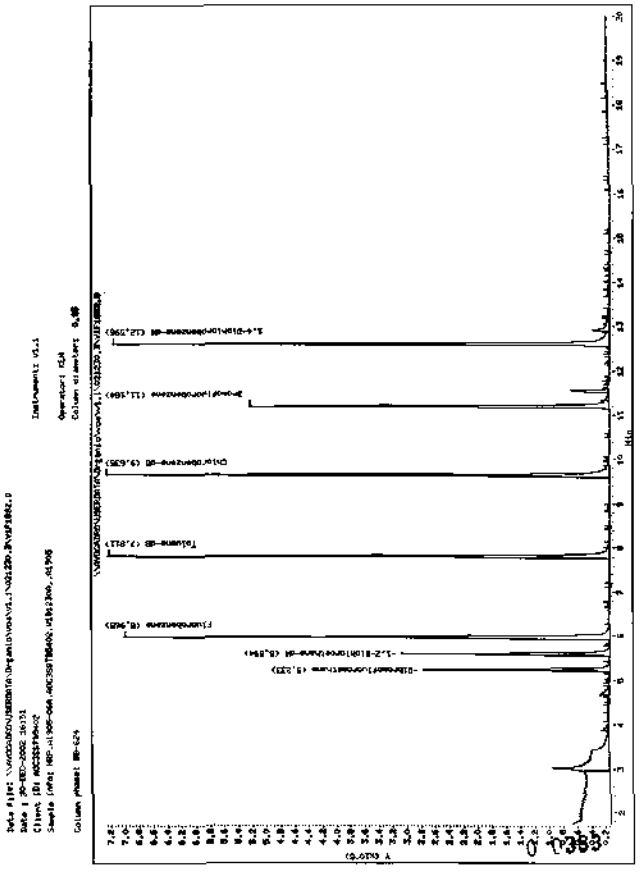
% Moisture: not dec. 9 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1882.D
Report Date: 09-Jan-2003 16:24

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1882.D
Lab Smp Id: A1905-06A Client Smp ID: AOC3SSTB5402
Inj Date : 30-DEC-2002 16:51
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-06A,AOC3SSTB5402,V1B1230A,,A1905
Misc Info : 23-DEC-02,,,,,,,15.1
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	15.100	Weight of sample (g)
M	9.000	% Moisture (not decanted)

	Compounds	QUANT SIG MASS	RT	REF RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN ng/ml	FINAL ug/Kg
	9 Acetone	43	3.006	3.998	(0.504)	513683	49.9240	18
	22 2-Butanone	43	4.766	4.768	(0.799)	139856	4.81401	3 JH
p	30 Dibromofluoromethane	111	5.233	5.225	(0.977)	200749	49.5784	17
p	35 1,2-Dichloroethane-d4	102	5.594	5.586	(0.938)	80692	51.2328	19
s	38 Fluorobenzene	96	5.965	5.967	(1.000)	739711	50.0000	
p	49 Toluene-d8	98	7.823	7.803	(0.881)	601402	43.8913	15
s	57 Chlorobenzene-d5	117	9.635	9.639	(1.000)	530953	50.0000	
p	68 Bromofluorobenzene	95	11.184	11.187	(1.161)	238331	43.0139	16
s	83 1,4-Dichlorobenzene-d4	152	13.695	13.697	(1.000)	381909	50.0000	

QC Flag Legend

H - Operator selected an alternate compound hit.

1/9/03

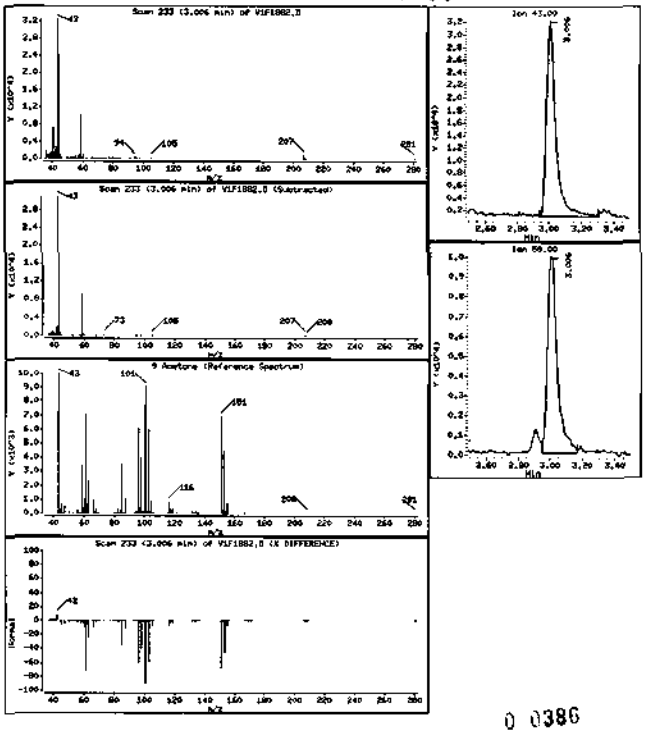
Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1882.D
Report Date: 09-Jan-2003 16:24

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1882.D
Lab Smp Id: A1905-06A Client Smp ID: AOC3SSTB5402
Inj Date : 30-DEC-2002 16:51
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-06A,AOC3SSTB5402,V1B1230A,,A1905
Misc Info : 23-DEC-02,,,,,,,15.1
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

- NO TENTATIVELY IDENTIFIED COMPOUNDS -



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1882.D

Date : 30-DEC-2002 16:51

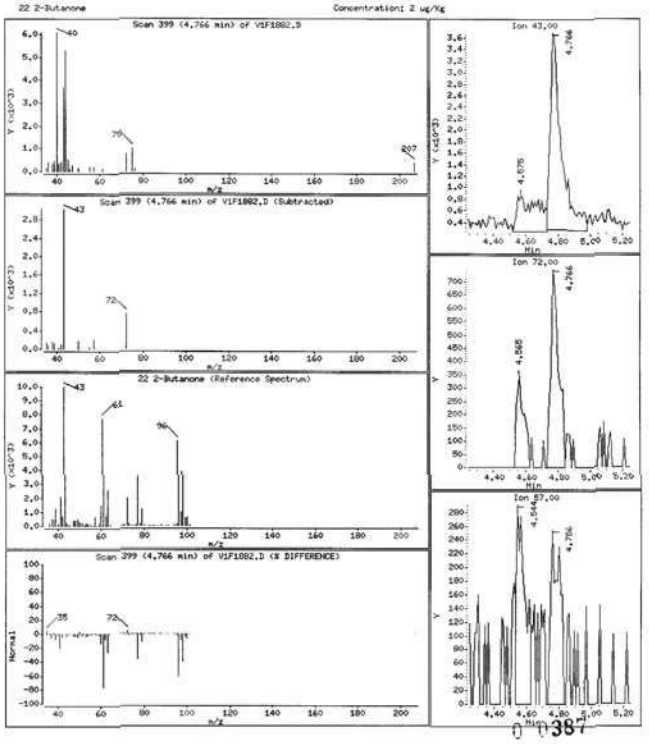
Client ID: AOC3SST95402 Instrument: v1.i

Sample Info: HRP,A1905-06A,AOC3SST95402,V1E12300,,A1905

Operator: KEM

Column phase: DB-624 Column diameter: 0.25

22 2-Butanone Concentration: 2 ug/Kg



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC3T2

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-09A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4194

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. _____ Date Analyzed: 12/29/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC3T2

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-09A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4194

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. _____ Date Analyzed: 12/29/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
----------	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: AOC3T2

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-09A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4194

Level: (low/med) LOW Date Received: 12/23/02

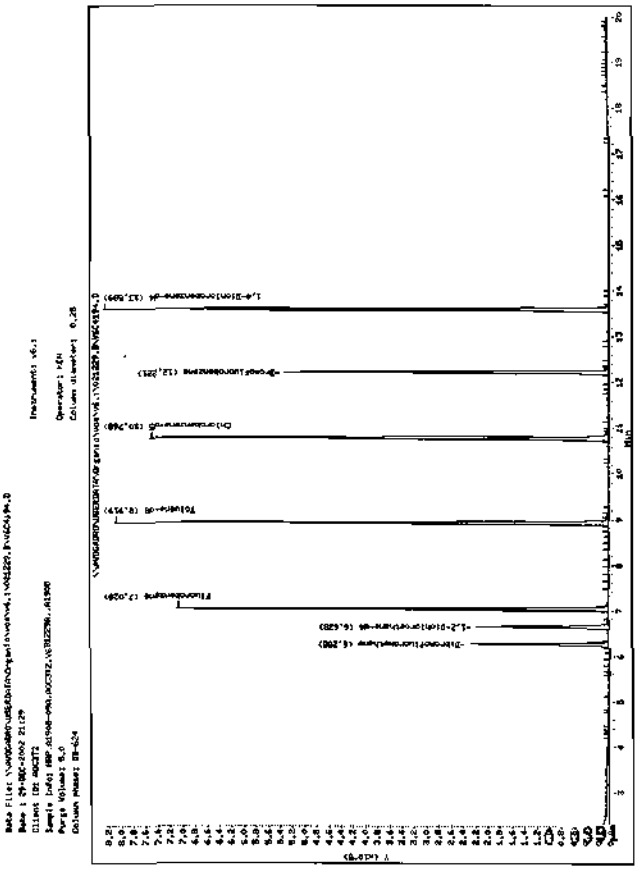
% Moisture: not dec. _____ Date Analyzed: 12/29/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4194.D
Report Date: 09-Jan-2003 12:36

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4194.D
Lab Smp Id: A1905-09A Client Smp ID: AOC3T2
Inj Date : 29-DEC-2002 21:29
Operator : KEN Inst ID: v6.i
Smp Info : HRP,A1905-09A,AOC3T2,V6B1229A,,A1905
Misc Info : 23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\v68260.m
Meth Date : 09-Jan-2003 12:27 mtl Quant Type: ISTD
Cal Date : 24-DEC-2002 17:54 Cal File: V6C4111.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
8 30 Dibromofluoromethane	113	4.349	4.349	(0.888)	190841	45.1755	45
9 35 1,2-Dichloroethane-d4	102	6.934	6.632	(0.945)	80022	44.3557	44
* 38 Fluorobenzene	96	7.026	7.026	(1.000)	842961	50.0000	
5 47 Toluene-d8	98	8.349	8.323	(0.828)	841994	51.1723	51
* 57 Chlorobenzene d5	117	10.766	10.761	(1.000)	660697	50.0000	
8 58 Bromofluorobenzene	95	11.221	11.215	(1.124)	267191	44.4758	44
* 85 1,4-Dichlorobenzene-d4	152	12.389	12.388	(1.000)	713690	50.0000	

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4194.D
Report Date: 09-Jan-2003 12:36

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4194.D
Lab Smp Id: A1905-09A Client Smp ID: AOC3T2
Inj Date : 29-DEC-2002 21:29
Operator : KEN Inst ID: v6.i
Smp Info : HRP,A1905-09A,AOC3T2,V6B1229A,,A1905
Misc Info : 23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\v68260.m
Meth Date : 09-Jan-2003 12:27 mtl Quant Type: ISTD
Cal Date : 24-DEC-2002 17:54 Cal File: V6C4111.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5SSTB6267

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-15A
Sample wt/vol: 7.8 (g/mL) G Lab File ID: V1F1911
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 43 Date Analyzed: 12/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6	U
74-87-3	Chloromethane	6	U
75-01-4	Vinyl Chloride	6	U
74-83-9	Bromomethane	6	U
75-00-3	Chloroethane	6	U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
67-64-1	Acetone	22	
75-09-2	Methylene Chloride	38	B
156-60-5	trans-1,2-Dichloroethene	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-34-3	1,1-Dichloroethane	6	U
78-93-3	2-Butanone	6	U
156-59-2	cis-1,2-Dichloroethene	6	U
590-20-7	2,2-Dichloropropane	6	U
74-97-5	Bromochloromethane	6	U
67-66-3	Chloroform	6	U
109-99-9	Tetrahydrofuran	6	U
71-55-6	1,1,1-Trichloroethane	6	U
563-58-6	1,1-Dichloropropene	6	U
56-23-5	Carbon Tetrachloride	6	U
107-06-2	1,2-Dichloroethane	6	U
71-43-2	Benzene	6	U
79-01-6	Trichloroethene	6	U
78-87-5	1,2-Dichloropropane	6	U
74-95-3	Dibromomethane	6	U
75-27-4	Bromodichloromethane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-pentanone	6	U
108-88-3	Toluene	1	J
10061-02-6	trans-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U
142-28-9	1,3-Dichloropropane	6	U
127-18-4	Tetrachloroethene	6	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5SSTB6267

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-15A
Sample wt/vol: 7.8 (g/mL) G Lab File ID: V1F1911
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 43 Date Analyzed: 12/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	6	U
124-48-1	Dibromochloromethane	6	U
106-93-4	1,2-Dibromoethane	6	U
108-90-7	Chlorobenzene	6	U
630-20-6	1,1,1,2-Tetrachloroethane	6	U
100-41-4	Ethylbenzene	6	U
	m,p-Xylene	6	U
95-47-6	o-Xylene	6	U
1330-20-7	Xylene (Total)	6	U
100-42-5	Styrene	6	U
75-25-2	Bromoform	6	U
98-82-8	Isopropylbenzene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-86-1	Bromobenzene	6	U
96-18-4	1,2,3-Trichloropropane	6	U
103-65-1	n-Propylbenzene	6	U
95-49-8	2-Chlorotoluene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
106-43-4	4-Chlorotoluene	6	U
98-06-6	tert-Butylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
135-98-8	sec-Butylbenzene	6	U
99-87-6	4-Isopropyltoluene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
104-51-8	n-Butylbenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U
87-68-3	Hexachlorobutadiene	6	U
91-20-3	Naphthalene	6	U
87-61-6	1,2,3-Trichlorobenzene	6	U
544-10-5	1-Chlorohexane	6	U
107-13-1	Acrylonitrile	6	U

FORM I VOA OLM03.0

0 0395

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC5SSTB6267

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-15A
Sample wt/vol: 7.8 (g/mL) G Lab File ID: V1F1911
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 43 Date Analyzed: 12/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

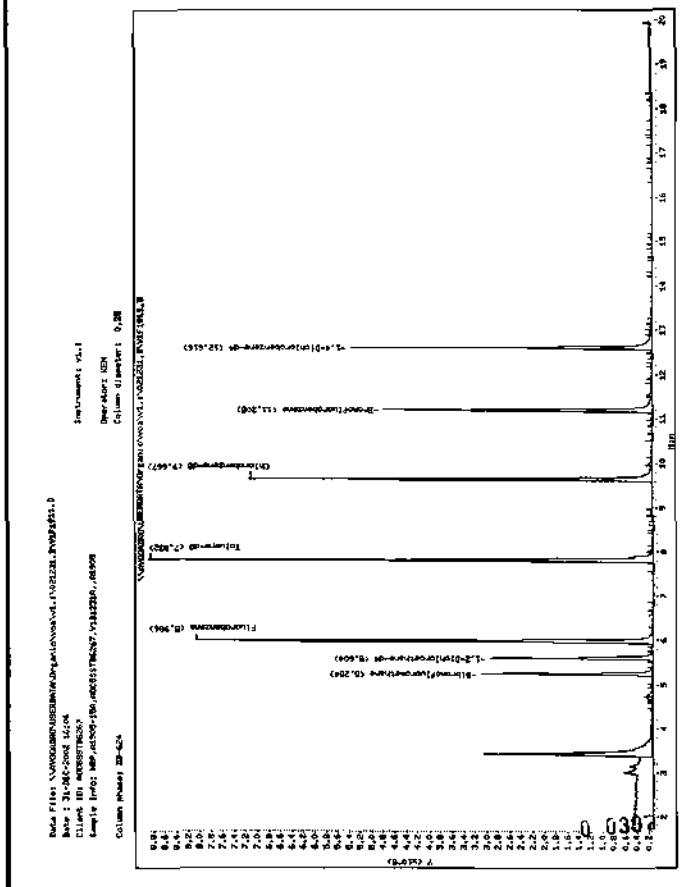
Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0

0 0396



0 0397

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1911.D
Report Date: 13-Jan-2003 10:00

Mitkem Corporation

Method 8260 Water and Medium Soil
Data file : \\AVOGADRO\USERDATA\organic\voa\v1.i\021231.B\V1F1911.D
Lab Smp Id: A1905-15A Client Smp ID: AOC5SSTB6267
Inj Date : 31-DEC-2002 16:06
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-15A,AOC5SSTB6267,V1B1231A,,A1905
Misc Info : 23-DEC-02,,,,,,7.8
Comment :
Method : \\AVOGADRO\USERDATA\organic\voa\v1.i\021231.B\v18260H.m
Meth Date : 10-Jan-2003 10:58 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	7.800	Weight of sample (g)
M	43.000	% Moisture (not decanted)

	Compounds	QUANT STD MASS	RT	RRT	RT WIN	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/kg)
	9 Acetone	43	3.027	0.969	(0.804)	52629	19.9374	33
	19 Methylene Chloride	84	3.461	0.922	(0.938)	272730	20.1362	34
#	32 Dibromofluoromethane	111	3.576	0.935	(0.878)	339963	47.2329	80
$	35 1,2-Dichloroethane-d4	102	5.404	0.997	(0.954)	68731	47.5142	80
*	36 Fluorobenzene	96	5.486	0.878	(1.000)	876618	50.0000	
$	43 Toluene-d8	98	7.032	0.814	(0.819)	713466	53.2317	90
	44 Toluene	91	7.217	0.899	(1.323)	37193	1.33040	2.24
*	57 Chlorobenzene-d5	117	9.647	0.968	(1.006)	528132	50.0000	
$	58 Bromofluorobenzene	95	11.565	11.198	(1.158)	203089	39.5828	66
*	61 1,4-Dichlorobenzene-d4	152	12.486	12.089	(1.000)	194704	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

0 0398

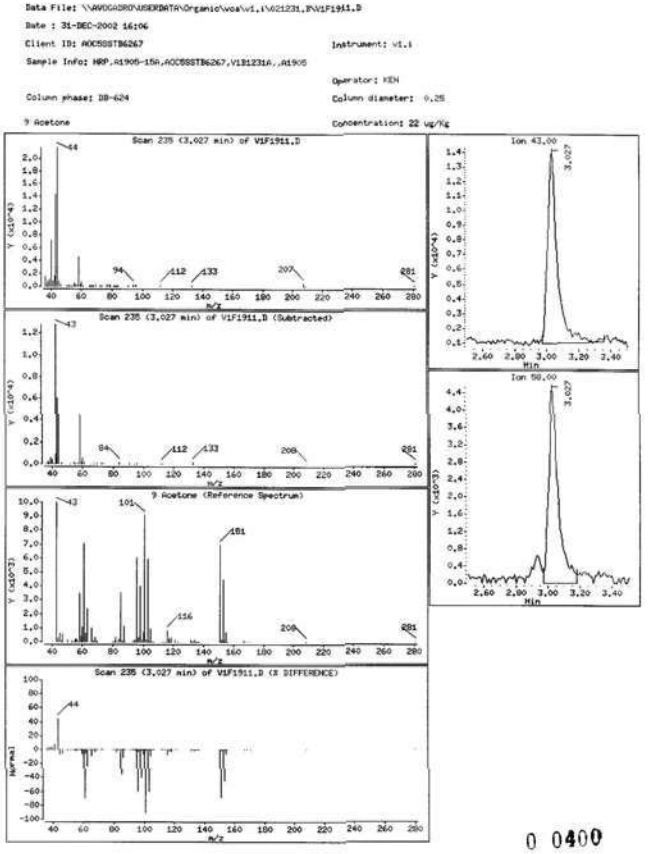
Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1911.D
Report Date: 13-Jan-2003 10:00

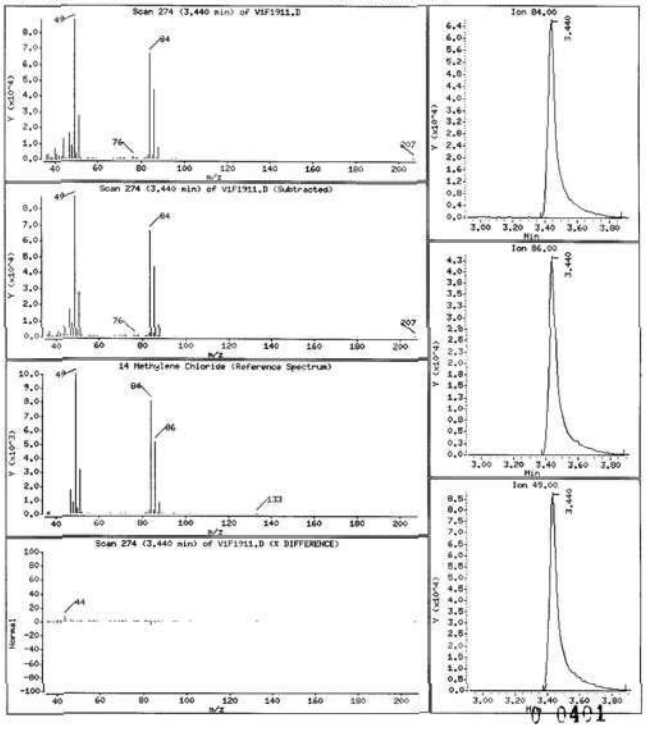
Mitkem Corporation

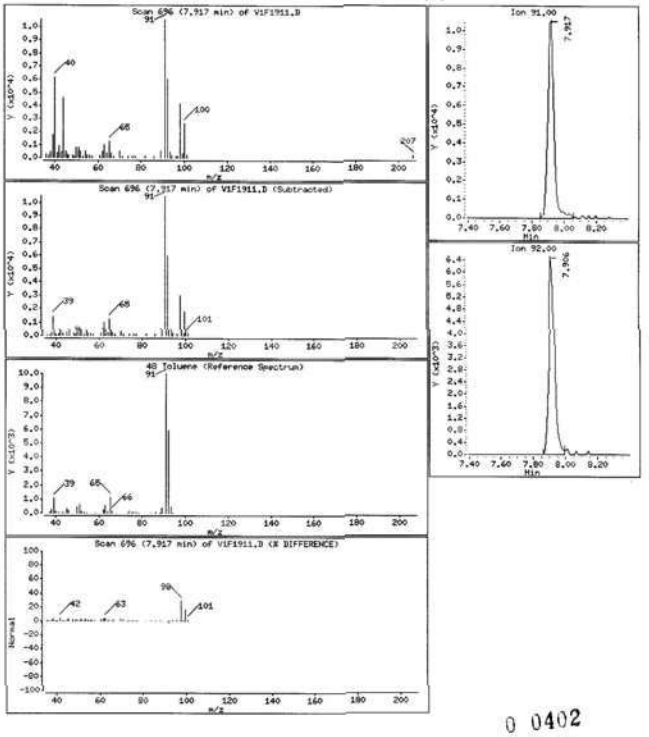
Method 8260 Water and Medium Soil

Data file	: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1911.D		
Lab Smp Id	: A1905-15A	Client Smp ID	: AOC5SSTB6267
Inj Date	: 31-DEC-2002 16:06		
Operator	: KEN	Inst ID	: v1.i
Smp Info	: HRP,A1905-15A,AOC5SSTB6267,V1B1231A,,A1905		
Misc Info	: 23-DEC-02,,,,,,,7.8		
Comment	:		
Method	: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\v18260H.m		
Meth Date	: 10-Jan-2003 10:58 mtl	Quant Type	: ISTD
Cal Date	: 30-DEC-2002 12:23	Cal File	: V1F1875.D
Als bottle	: 11		
Dil Factor	: 1.00000		
Integrator	: HP RTE	Compound Sublist	: HRP.sub
Target Version	: 4.03		
Processing Host	: TARGET3		

- NO TENTATIVELY IDENTIFIED COMPOUNDS -







1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5ASSTB68015

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-25A
Sample wt/vol: 17.2 (g/mL) G Lab File ID: V1F1890
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 7 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
75-35-4	1,1-Dichloroethene	2	U
67-64-1	Acetone	2	U
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	2	U
1634-04-4	Methyl tert-butyl ether	2	U
75-34-3	1,1-Dichloroethane	2	U
78-93-3	2-Butanone	2	U
156-59-2	cis-1,2-Dichloroethene	2	U
590-20-7	2,2-Dichloropropane	2	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
109-99-9	Tetrahydrofuran	2	U
71-55-6	1,1,1-Trichloroethane	2	U
563-58-6	1,1-Dichloropropene	2	U
56-23-5	Carbon Tetrachloride	2	U
107-06-2	1,2-Dichloroethane	2	U
71-43-2	Benzene	2	U
79-01-6	Trichloroethene	2	U
78-87-5	1,2-Dichloropropane	2	U
74-95-3	Dibromomethane	2	U
75-27-4	Bromodichloromethane	2	U
10061-01-5	cis-1,3-Dichloropropene	2	U
108-10-1	4-Methyl-2-pentanone	2	U
108-88-3	Toluene	0.6	J
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
142-28-9	1,3-Dichloropropane	2	U
127-18-4	Tetrachloroethene	2	U

FORM I VOA OLM03.0

0 0403

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5ASSTB68015

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-25A
Sample wt/vol: 17.2 (g/mL) G Lab File ID: V1F1890
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 7 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	2	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
108-90-7	Chlorobenzene	2	U
630-20-6	1,1,1,2-Tetrachloroethane	2	U
100-41-4	Ethylbenzene	2	U
----------	m,p-Xylene	2	U
95-47-6	o-Xylene	2	U
1330-20-7	Xylene (Total)	2	U
100-42-5	Styrene	2	U
75-25-2	Bromoform	2	U
98-82-8	Isopropylbenzene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
108-86-1	Bromobenzene	2	U
96-18-4	1,2,3-Trichloropropane	2	U
103-65-1	n-Propylbenzene	2	U
95-49-8	2-Chlorotoluene	2	U
108-67-8	1,3,5-Trimethylbenzene	2	U
106-43-4	4-Chlorotoluene	2	U
98-06-6	tert-Butylbenzene	2	U
95-63-6	1,2,4-Trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
99-87-6	4-Isopropyltoluene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
104-51-8	n-Butylbenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	2	U
120-82-1	1,2,4-Trichlorobenzene	2	U
87-68-3	Hexachlorobutadiene	2	U
91-20-3	Naphthalene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U
544-10-5	1-Chlorohexane	2	U
107-13-1	Acrylonitrile	2	U

FORM I VOA OLM03.0

0 0404

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC5ASSTB68015

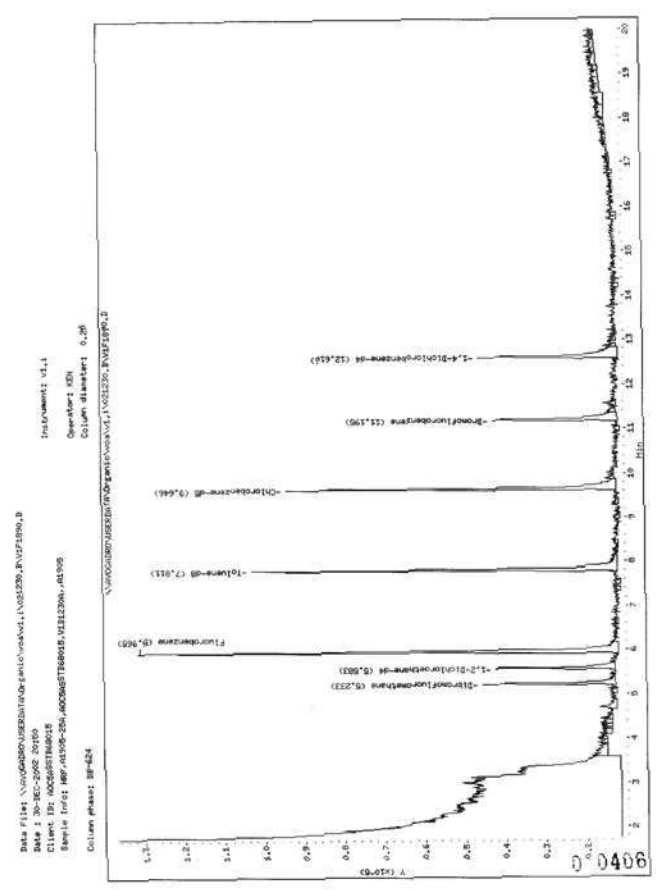
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-25A
Sample wt/vol: 17.2 (g/mL) G Lab File ID: V1F1890
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 7 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

0 0405



0 0406

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1890.D
Report Date: 09-Jan-2003 16:24

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1890.D
Lab Smp Id: A1905-25A Client Smp ID: AOC5ASSTB68015
Inj Date : 30-DEC-2002 20:50
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-25A,AOC5ASSTB68015,V1B1230A,,A1905
Misc Info : 23-DEC-02,,,,,,17.2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	17.200	Weight of sample (g)
M	7.000	% Moisture (not decanted)

	Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
S	30 Dibromofluoromethane	113	5.233	5.325	(0.977)	26814	35.2095	11
S	35 1,2-Dichloroethane-d4	102	5.594	5.586	(0.938)	4857	27.5120	8
*	38 Fluorobenzene	96	5.965	5.957	(1.000)	137100	50.0000	
S	47 Toluene-d8	98	7.811	7.803	(0.810)	84441	43.6376	14
	48 Toluene	91	7.896	7.888	(1.324)	6031	1.88898	0.6(a)
*	67 Chlorobenzene-d5	117	9.646	9.638	(1.000)	74909	50.0000	
S	68 Bromofluorobenzene	95	11.195	11.187	(1.161)	22004	27.5010	8
*	81 1,4-Dichlorobenzene-d4	152	12.616	12.597	(1.000)	18770	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

1/9/03

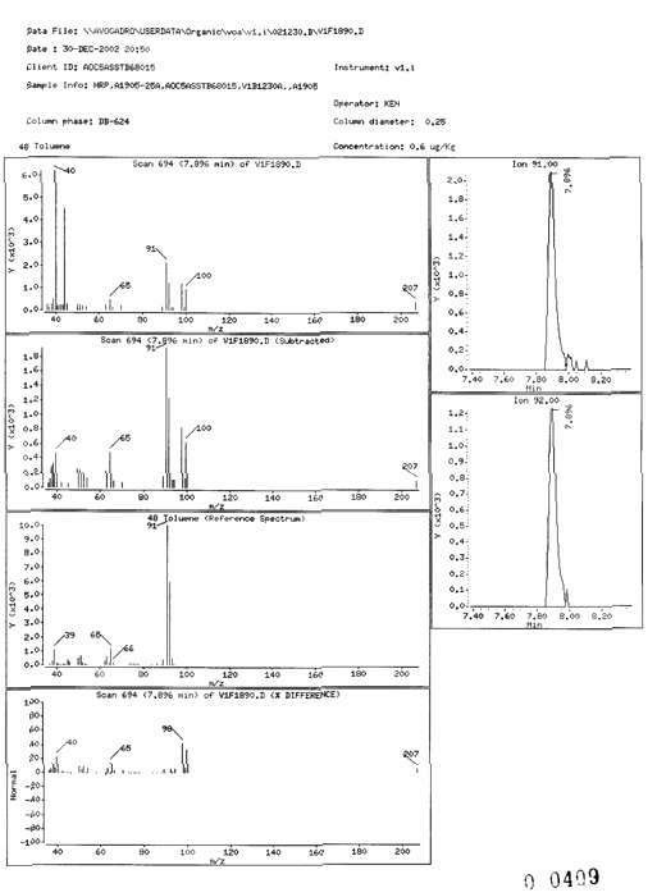
Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1890.D
Report Date: 09-Jan-2003 16:24

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1890.D
Lab Smp Id: A1905-25A Client Smp ID: AOC5ASSTB68015
Inj Date : 30-DEC-2002 20:50
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-25A,AOC5ASSTB68015,V1B1230A,,A1905
Misc Info : 23-DEC-02,,,,,,17.2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

- NO TENTATIVELY IDENTIFIED COMPOUNDS -



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5ASST B68015RE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-25ARE
Sample wt/vol: 7.0 (g/mL) G Lab File ID: V1F1906
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 7 Date Analyzed: 12/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	4	U
74-87-3	Chloromethane	4	U
75-01-4	Vinyl Chloride	4	U
74-83-9	Bromomethane	4	U
75-00-3	Chloroethane	4	U
75-69-4	Trichlorofluoromethane	4	U
75-35-4	1,1-Dichloroethene	4	U
67-64-1	Acetone	17	
75-09-2	Methylene Chloride	4	U
156-60-5	trans-1,2-Dichloroethene	4	U
1634-04-4	Methyl tert-butyl ether	4	U
75-34-3	1,1-Dichloroethane	4	U
78-93-3	2-Butanone	4	U
156-59-2	cis-1,2-Dichloroethene	4	U
590-20-7	2,2-Dichloropropane	4	U
74-97-5	Bromochloromethane	4	U
67-66-3	Chloroform	4	U
109-99-9	Tetrahydrofuran	4	U
71-55-6	1,1,1-Trichloroethane	4	U
563-58-6	1,1-Dichloropropene	4	U
56-23-5	Carbon Tetrachloride	4	U
107-06-2	1,2-Dichloroethane	4	U
71-43-2	Benzene	4	U
79-01-6	Trichloroethene	4	U
78-87-5	1,2-Dichloropropane	4	U
74-95-3	Dibromomethane	4	U
75-27-4	Bromodichloromethane	4	U
10061-01-5	cis-1,3-Dichloropropene	4	U
108-10-1	4-Methyl-2-pentanone	4	U
108-88-3	Toluene	1	J
10061-02-6	trans-1,3-Dichloropropene	4	U
79-00-5	1,1,2-Trichloroethane	4	U
142-28-9	1,3-Dichloropropane	4	U
127-18-4	Tetrachloroethene	4	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5ASST
B68015RE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-25ARE

Sample wt/vol: 7.0 (g/mL) G Lab File ID: V1F1906

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 7 Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
591-78-6	2-Hexanone	4	U
124-48-1	Dibromochloromethane	4	U
106-93-4	1,2-Dibromoethane	4	U
108-90-7	Chlorobenzene	4	U
630-20-6	1,1,1,2-Tetrachloroethane	4	U
100-41-4	Ethylbenzene	4	U
	m,p-Xylene	4	U
95-47-6	o-Xylene	4	U
1330-20-7	Xylene (Total)	4	U
100-42-5	Styrene	4	U
75-25-2	Bromoform	4	U
98-82-8	Isopropylbenzene	4	U
79-34-5	1,1,2,2-Tetrachloroethane	4	U
108-86-1	Bromobenzene	4	U
96-18-4	1,2,3-Trichloropropane	4	U
103-65-1	n-Propylbenzene	4	U
95-49-8	2-Chlorotoluene	4	U
108-67-8	1,3,5-Trimethylbenzene	4	U
106-43-4	4-Chlorotoluene	4	U
98-06-6	tert-Butylbenzene	4	U
95-63-6	1,2,4-Trimethylbenzene	4	U
135-98-8	sec-Butylbenzene	4	U
99-87-6	4-Isopropyltoluene	4	U
541-73-1	1,3-Dichlorobenzene	4	U
106-46-7	1,4-Dichlorobenzene	4	U
104-51-8	n-Butylbenzene	4	U
95-50-1	1,2-Dichlorobenzene	4	U
96-12-8	1,2-Dibromo-3-chloropropane	4	U
120-82-1	1,2,4-Trichlorobenzene	4	U
87-68-3	Hexachlorobutadiene	4	U
91-20-3	Naphthalene	4	U
87-61-6	1,2,3-Trichlorobenzene	4	U
544-10-5	1-Chlorohexane	4	U
107-13-1	Acrylonitrile	4	U

FORM I VOA OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC5ASST
B68015RE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-25ARE

Sample wt/vol: 7.0 (g/mL) G Lab File ID: V1F1906

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 7 Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

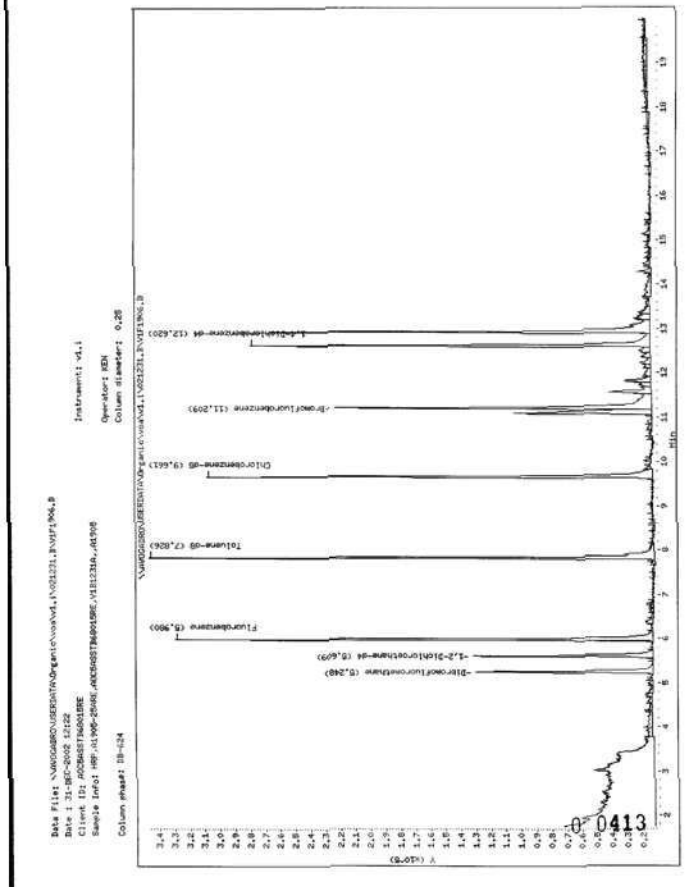
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	11.09	18	J
2.	556-67-2	CYCLOTETRASILOXANE, OCTAMETH	11.57	7	NJ
3.		UNKNOWN	11.81	4	J
4.		UNKNOWN	12.93	43	J
5.		UNKNOWN	13.74	5	J
6.		UNKNOWN	19.00	8	J
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1906.D
Report Date: 10-Jan-2003 10:58

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1906.D
Lab Smp Id: A1905-25ARE Client Smp ID: AOC5ASSTB68015RE
Inj Date : 31-DEC-2002 12:22
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-25ARE,AOC5ASSTB68015RE,V1B1231A,,A1905
Misc Info : 23-DEC-02,,,,,,7.0
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\v18260H.m
Meth Date : 10-Jan-2003 10:58 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	7.000	Weight of sample (g)
M	7.000	% Moisture (not decanted)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)	
	9 Acetone	43	3.020	3.009	(0.505)	25212	22.7270	17	
$	30 Dibromofluoromethane	113	5.248	5.236	(0.878)	89501	45.7329	35	
$	35 1,2-Dichloroethane-d4	102	5.609	5.597	(0.938)	19943	43.2826	33	
*	38 Fluorobenzene	96	5.980	5.979	(1.000)	352318	50.0000		
$	47 Toluene-d8	98	7.826	7.814	(0.810)	287643	49.3119	38	
	48 Toluene	91	7.910	7.899	(1.323)	11979	1.46003	1(a)	
*	57 Chlorobenzene-d5	117	9.661	9.649	(1.000)	225810	50.0000		
$	68 Bromofluorobenzene	95	11.209	11.198	(1.160)	98586	40.6746	31	
*	81 1,4-Dichlorobenzene-d4	152	12.620	12.609	(1.000)	91689	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

(50)
1/10/03

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1906.D
Report Date: 10-Jan-2003 10:58

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1906.D
Lab Smp Id: A1905-25ARE Client Smp ID: AOC5ASSTB68015RE
Inj Date : 31-DEC-2002 12:22
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-25ARE,AOC5ASSTB68015RE,V1B1231A,,A1905
Misc Info : 23-DEC-02,,,,,,,7.0
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\v18260H.m
Meth Date : 10-Jan-2003 10:58 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

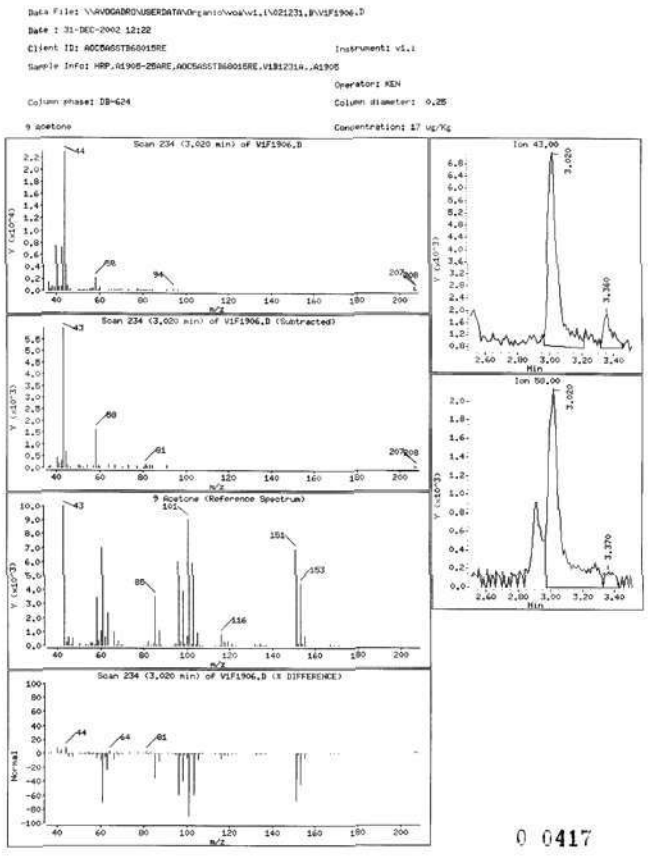
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	7.000	Weight of sample (g)
M	7.000	% Moisture (not decanted)

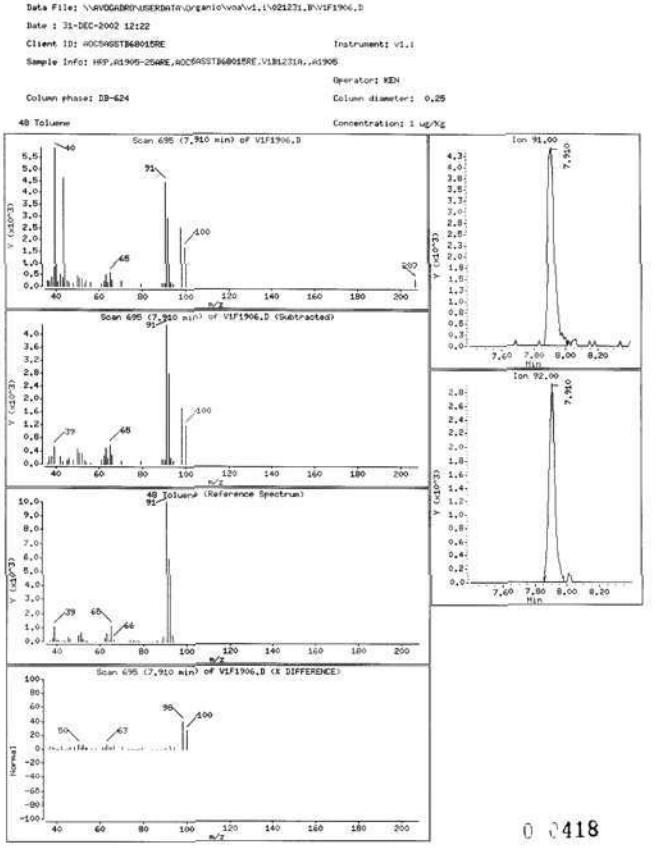
ISTD		RT	AREA	AMOUNT
* 57	Chlorobenzene-d5	9.661	743274	50.000
* 81	1,4-Dichlorobenzene-d4	12.620	615495	50.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown			CAS #:				
11.093	349597	23.5173704	18	0		0	57
Cyclote	trasiloxane, octamethyl-		CAS #: 556-67-2				
11.570	105815	8.55592688	7	90	NBS75K.L	41966	81

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1906.D
Report Date: 10-Jan-2003 10:58

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown			CAS #:				
11.814	68443	8.55999643	4	0		0	81
Unknown			CAS #:				
12.928	697082	56.6277589	43	0		0	81
Unknown			CAS #:				
13.745	75976	6.17194291	5	0		0	81
Unknown			CAS #:				
18.995	135847	11.0255892	8	0		0	81





Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021231.B\V1F1906.D

Date : 31-DEC-2002 12:22

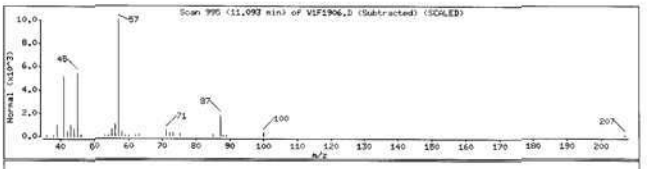
Client ID: AOC5ASSTB6801SRE Instrument: v1.1

Sample Info: HRP,A1906-25ARE,AOC5ASSTB6801SRE,V1B1231A,,A1906

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021231.B\V1F1906.D

Date : 31-DEC-2002 12:22

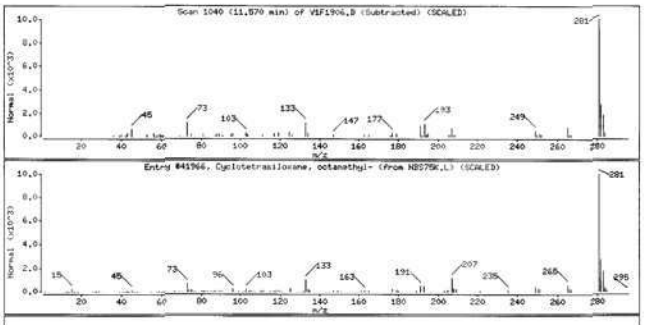
Client ID: AOC5ASSTB6801SRE Instrument: v1.1

Sample Info: HRP,A1906-25ARE,AOC5ASSTB6801SRE,V1B1231A,,A1906

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS75K.L	41966	90	C8H24O4Si4	296



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021231.B\V1F1906.D

Date : 31-DEC-2002 12:22

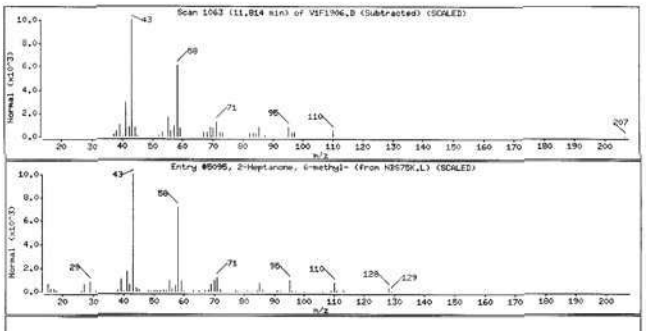
Client ID: AOC5ASSTB6801SRE Instrument: v1.1

Sample Info: HRP,A1906-25ARE,AOC5ASSTB6801SRE,V1B1231A,,A1906

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Heptanone, 6-methyl-	928-68-7	NBS75K.L	8096	72	C8H16O	128



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021231.B\V1F1906.D

Date : 31-DEC-2002 12:22

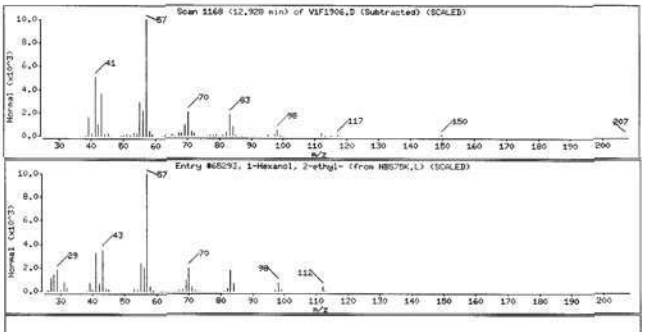
Client ID: AOC5ASSTB6801SRE Instrument: v1.1

Sample Info: HRP,A1906-25ARE,AOC5ASSTB6801SRE,V1B1231A,,A1906

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Hexanol, 2-ethyl-	104-76-7	NBS75K.L	65293	83	C8H18O	130



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021231_B\V1F1906.D

Date : 31-DEC-2002 12:22

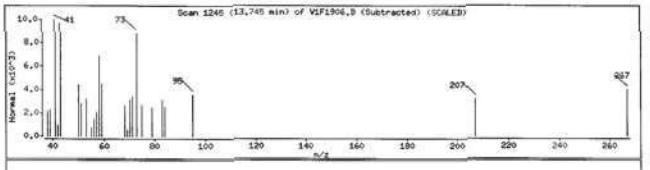
Client ID: AOC5ASSTB6801SRE Instrument: v1.1

Sample Info: HRP,A1905-25ARE,AOC5ASSTB6801SRE,V1B1231A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021231_B\V1F1906.D

Date : 31-DEC-2002 12:22

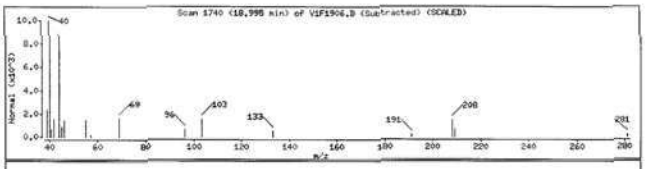
Client ID: AOC5ASSTB6801SRE Instrument: v1.1

Sample Info: HRP,A1905-25ARE,AOC5ASSTB6801SRE,V1B1231A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5ASSTB6978

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-24A

Sample wt/vol: 4.6 (g/mL) G Lab File ID: V1F1889

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 49 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
67-64-1	Acetone	150	
75-09-2	Methylene Chloride	2	JB
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl tert-butyl ether	11	U
75-34-3	1,1-Dichloroethane	11	U
78-93-3	2-Butanone	35	
156-59-2	cis-1,2-Dichloroethene	11	U
590-20-7	2,2-Dichloropropane	11	U
74-97-5	Bromochloromethane	11	U
67-66-3	Chloroform	11	U
109-99-9	Tetrahydrofuran	11	U
71-55-6	1,1,1-Trichloroethane	11	U
563-58-6	1,1-Dichloropropene	11	U
56-23-5	Carbon Tetrachloride	11	U
107-06-2	1,2-Dichloroethane	11	U
71-43-2	Benzene	11	U
79-01-6	Trichloroethene	11	U
78-87-5	1,2-Dichloropropane	11	U
74-95-3	Dibromomethane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	7	J
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
142-28-9	1,3-Dichloropropane	11	U
127-18-4	Tetrachloroethene	11	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5ASSTB6978

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-24A

Sample wt/vol: 4.6 (g/mL) G Lab File ID: V1F1889

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 49 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
630-20-6	1,1,1,2-Tetrachloroethane	11	U
100-41-4	Ethylbenzene	11	U
	m,p-Xylene	11	U
95-47-6	o-Xylene	11	U
1330-20-7	Xylene (Total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-86-1	Bromobenzene	11	U
96-18-4	1,2,3-Trichloropropane	11	U
103-65-1	n-Propylbenzene	11	U
95-49-8	2-Chlorotoluene	11	U
108-67-8	1,3,5-Trimethylbenzene	11	U
106-43-4	4-Chlorotoluene	11	U
98-06-6	tert-Butylbenzene	11	U
95-63-6	1,2,4-Trimethylbenzene	11	U
135-98-8	sec-Butylbenzene	11	U
99-87-6	4-Isopropyltoluene	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
104-51-8	n-Butylbenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
87-68-3	Hexachlorobutadiene	11	U
91-20-3	Naphthalene	11	U
87-61-6	1,2,3-Trichlorobenzene	11	U
544-10-5	1-Chlorohexane	11	U
107-13-1	Acrylonitrile	11	U

FORM I VOA OLM03.0

1R

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AOC5ASSTB6978

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-24A

Sample wt/vol: 4.6 (g/mL) G Lab File ID: V1F1889

Level: (low/med) LOW Data Received: 12/23/02

% Moisture: not dec. 49 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

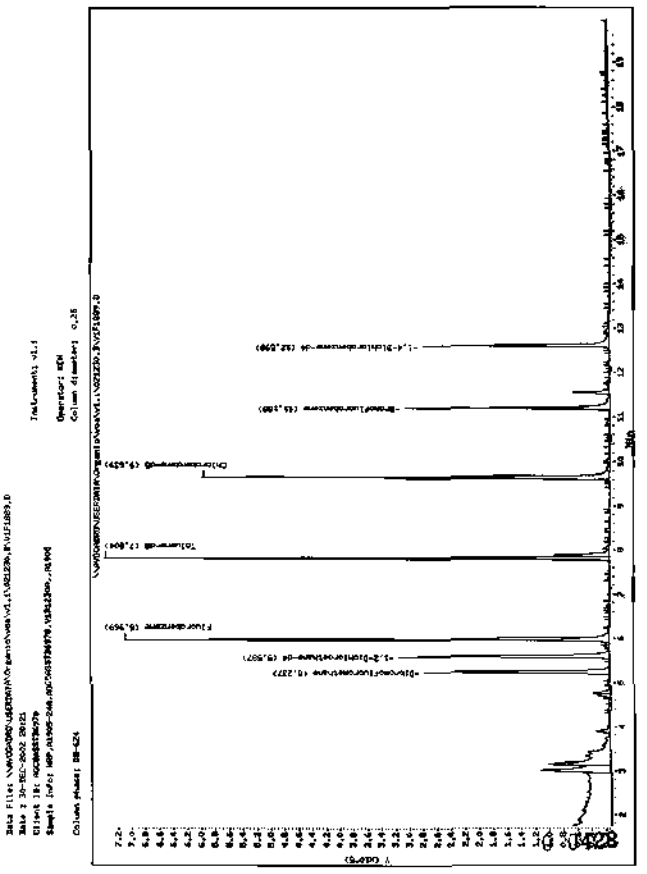
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	3.15	58	J
2.		UNKNOWN	11.56	21	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0

0 0427



0 0428

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1889.D
Report Date: 09-Jan-2003 16:24

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1889.D
Lab Smp Id: A1905-24A Client Smp ID: AOC5ASSTB6978
Inj Date : 30-DEC-2002 20:21
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-24A,AOC5ASSTB6978,V1B1230A,,A1905
Misc Info : 23-DEC-02,,,,,,,4.6
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	4.600	Weight of sample (g)
M	49.000	% Moisture (not decanted)

Compounds	QUANT SIO MASS	RT	REL RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/Kg)
9 Acetone	43	2.998	2.988	(0.802)	177824	69.8134	190
14 Methylene Chloride	84	3.423	3.413	(0.937)	8917	1.20805	3 [a]
22 2-Butanone	43	4.759	4.749	(0.595)	97879	18.5198	35
# 70 Dibromofluoromethane	112	5.237	5.226	(0.877)	213883	47.7484	100
# 35 1,2-Dichloroethane-d4	102	5.587	5.586	(0.916)	49334	46.7760	100
* 38 Fluorobenzene	96	5.969	5.957	(1.000)	806459	50.0000	
# 47 Toluene-d8	98	7.804	7.805	(0.810)	802693	56.6875	120
46 Toluene	91	7.889	7.888	(1.322)	61318	3.36511	7 [a]
* 83 Chlorobenzene-d5	117	9.639	9.638	(1.000)	626614	50.0000	
# 69 Bromofluorobenzene	95	11.188	11.187	(1.161)	743363	33.5939	67
* 81 1,4-Dichlorobenzene-d4	152	12.598	12.597	(1.000)	93657	50.0000	

1/9/03

0 0429

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1889.D
Report Date: 09-Jan-2003 16:24

Mitkem Corporation

Method 8260 Water and Medium Soil

Data File : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1889.D
Lab Smp Id: A1905-24A Client Smp ID: AOC5ASSTB6978
Inj Date : 30-DEC-2002 20:21
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-24A,AOC5ASSTB6978,V1B1230A,,A1905
Misc Info : 23-DEC-02,,,,,,,4.6
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	4.600	Weight of sample (g)
M	49.000	% Moisture (not decanted)

ISTD	RT	AREA	AMOUNT
* 38 Fluorobenzene	5.969	1793334	50.000
* 81 1,4-Dichlorobenzene-d4	12.598	643640	50.000

RT	AREA	CONCENTRATIONS ON-COL (ug/l)	FINAL (ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CFED #
Unknown		CAS #:					
3.147	976014	33.2599182	58	0	0		38
Unknown		CAS #:					
11.569	324567	9.47676010	21	0	0		81

0 0430

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021230.B\V1F1889.D

Date : 30-DEC-2002 20:21

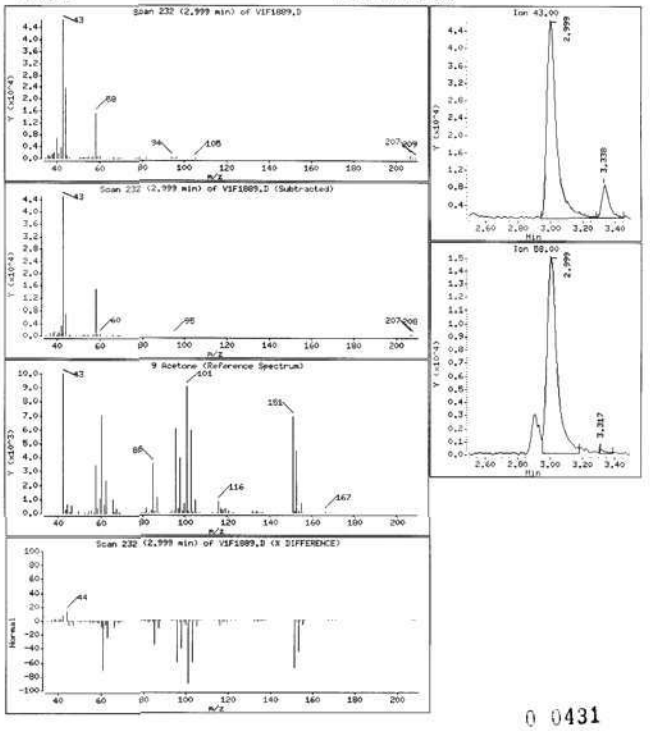
Client ID: AOC5ASST86978 Instrument: v1.1

Sample Info: HRP,A1905-24A,AOC5ASST86978,V1B1230A,,A1905

Operator: KEH

Column phase: DB-624 Column diameter: 0.25

9 Acetone Concentration: 150 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021230.B\V1F1889.D

Date : 30-DEC-2002 20:21

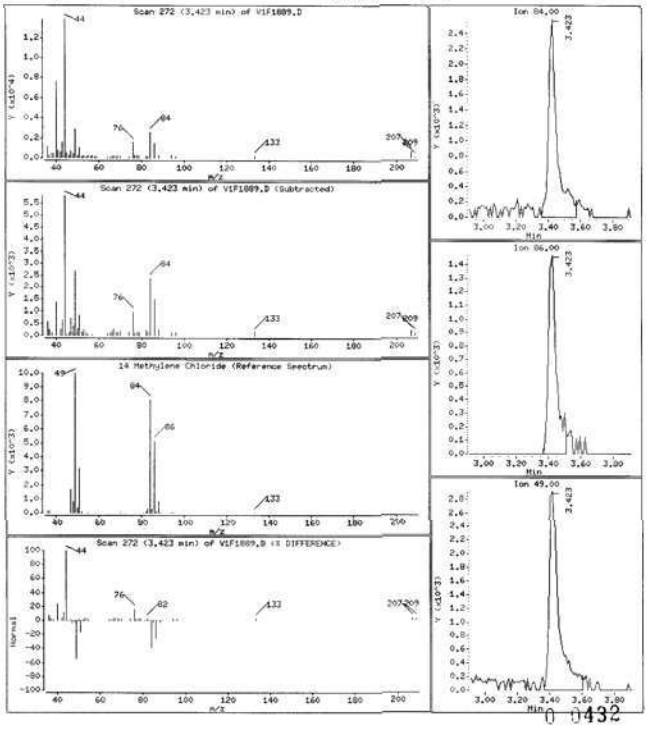
Client ID: AOC5ASST86978 Instrument: v1.1

Sample Info: HRP,A1905-24A,AOC5ASST86978,V1B1230A,,A1905

Operator: KEH

Column phase: DB-624 Column diameter: 0.25

14 Methylene Chloride Concentration: 2 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021230.B\V1F1889.D

Date : 30-DEC-2002 20:21

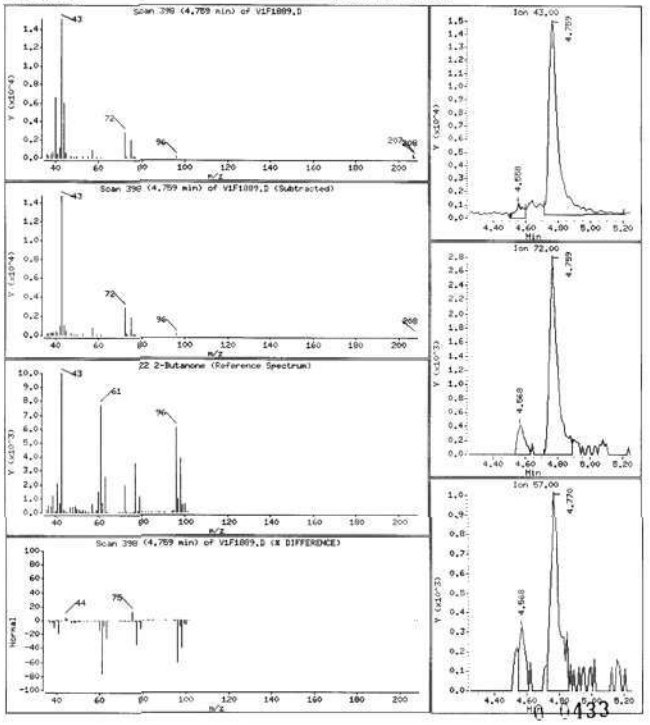
Client ID: AOC5ASST86978 Instrument: v1.1

Sample Info: HRP,A1905-24A,AOC5ASST86978,V1B1230A,,A1905

Operator: KEH

Column phase: DB-624 Column diameter: 0.25

22 2-Butanone Concentration: 35 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021230.B\V1F1889.D

Date : 30-DEC-2002 20:21

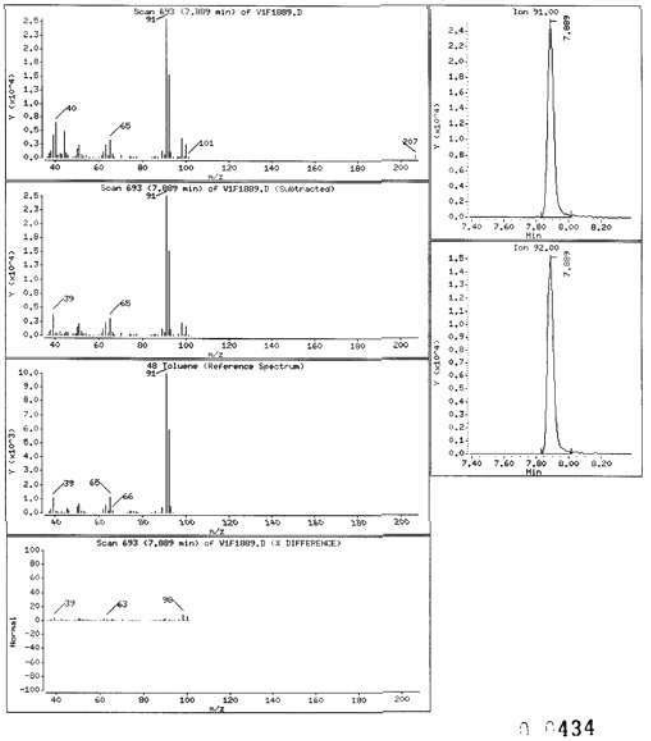
Client ID: AOC5ASST86978 Instrument: v1.1

Sample Info: HRP,A1905-24A,AOC5ASST86978,V1B1230A,,A1905

Operator: KEH

Column phase: DB-624 Column diameter: 0.25

48 Toluene Concentration: 7 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1889.D

Date : 30-DEC-2002 20:21

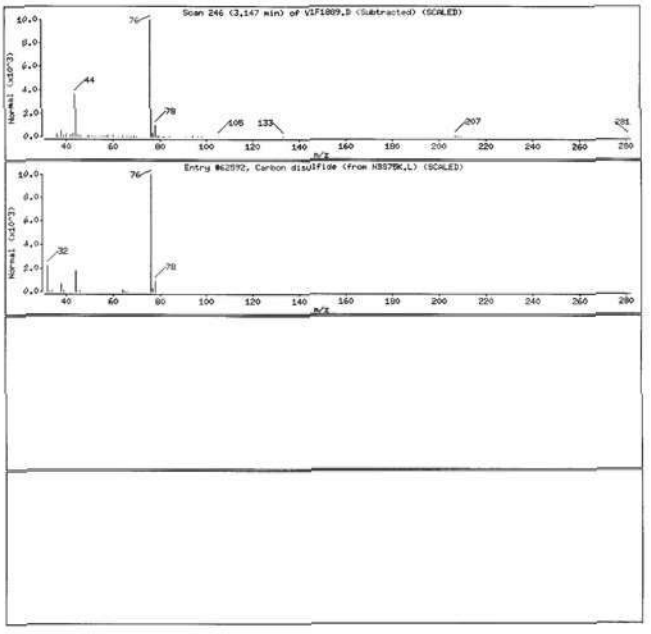
Client ID: AOC5ASSTB6978 Instrument: v1.i

Sample Info: HRP,A1905-24A,AOC5ASSTB6978,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Carbon disulfide	75-15-0	NBS75K.L	62892	78	CS2	76



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1889.D

Date : 30-DEC-2002 20:21

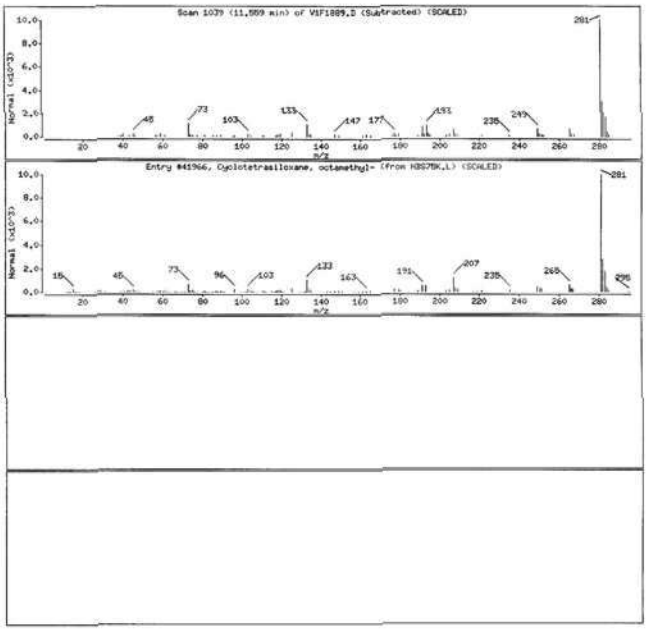
Client ID: AOC5ASSTB6978 Instrument: v1.i

Sample Info: HRP,A1905-24A,AOC5ASSTB6978,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS75K.L	41966	74	C8H24O4Si4	296



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5ASSTB7002

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-23A

Sample wt/vol: 18.5 (g/mL) G Lab File ID: V1F1888

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 7 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	9	
75-09-2	Methylene Chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
1634-04-4	Methyl tert-butyl ether	1	U
75-34-3	1,1-Dichloroethane	1	U
78-93-3	2-Butanone	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
590-20-7	2,2-Dichloropropane	1	U
74-97-5	Bromochloromethane	1	U
67-66-3	Chloroform	1	U
109-99-9	Tetrahydrofuran	1	U
71-55-6	1,1,1-Trichloroethane	1	U
563-58-6	1,1-Dichloropropene	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
71-43-2	Benzene	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	1	U
75-27-4	Bromodichloromethane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
142-28-9	1,3-Dichloropropane	1	U
127-18-4	Tetrachloroethene	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5ASSTB7002

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-23A

Sample wt/vol: 18.5 (g/mL) G Lab File ID: V1F1888

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 7 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	1	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-90-7	Chlorobenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
100-41-4	Ethylbenzene	1	U
----------	m,p-Xylene	1	U
95-47-6	o-Xylene	1	U
1330-20-7	Xylene (Total)	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-86-1	Bromobenzene	1	U
96-18-4	1,2,3-Trichloropropane	1	U
103-65-1	n-Propylbenzene	1	U
95-49-8	2-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
106-43-4	4-Chlorotoluene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
135-98-8	sec-Butylbenzene	1	U
99-87-6	4-Isopropyltoluene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U
544-10-5	1-Chlorohexane	1	U
107-13-1	Acrylonitrile	1	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC5ASSTB7002

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-23A

Sample wt/vol: 18.5 (g/mL) G Lab File ID: V1F1888

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. 7 Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

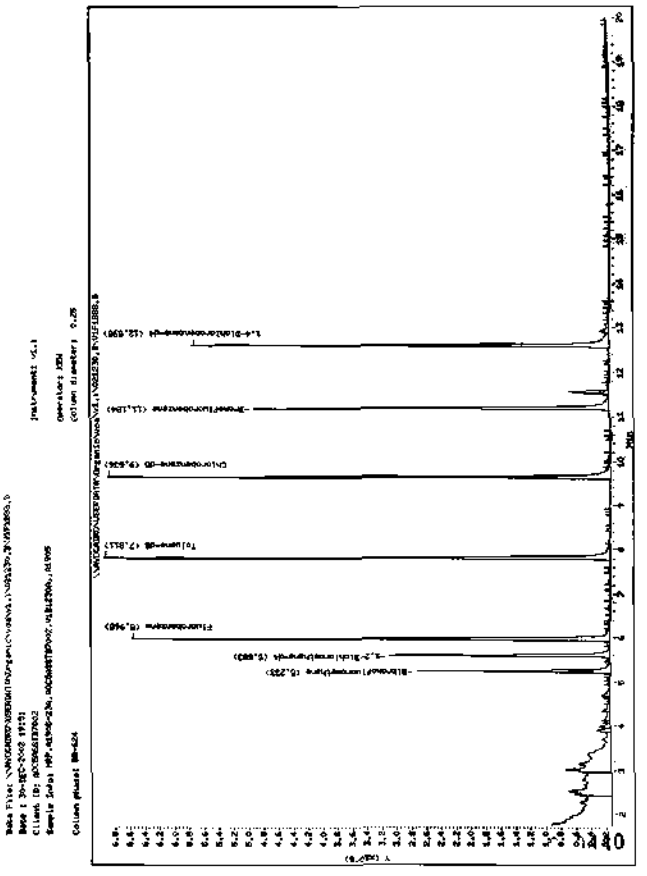
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0

0 0439



0 0440

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1888.D
Report Date: 09-Jan-2003 16:24

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1888.D
Lab Smp Id: A1905-23A Client Smp ID: AOC5ASSTB7002
Inj Date : 30-DEC-2002 19:51
Operator : KEM Inst ID: v1.i
Smp Info : HRP,A1905-23A,AOC5ASSTB7002,V1B1230A,,A1905
Misc Info : 23-DEC-02,,,,,,,18.5
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * S/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	18.500	Weight of sample (g)
M	7.000	% Moisture (not decanted)

Compounds	Quant Ion MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN ug/l	FINAL ug/kg
9 Acetone	43	2.006	2.998	(0.504)	72855	93.2881	8
30 Dichlorodifluoromethane	101	5.233	5.225	(0.977)	195853	50.1628	14
36 1,2-Dichloroethane-d4	102	5.594	5.588	(0.928)	52180	53.4656	16
38 Fluorobenzene	96	5.963	5.957	(1.000)	517656	50.0000	
47 Toluene-d8	98	7.611	7.605	(0.811)	564457	45.8708	13
57 Chlorobenzene-d5	117	9.838	9.834	(1.000)	493241	50.0000	
58 Bromofluorobenzene	95	11.184	11.187	(1.183)	398060	61.0346	18
81 1,4-Dichlorobenzene-d4	152	12.598	12.597	(1.000)	264653	50.0000	

1/9/03

- 0441

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1888.D
Report Date: 09-Jan-2003 16:24

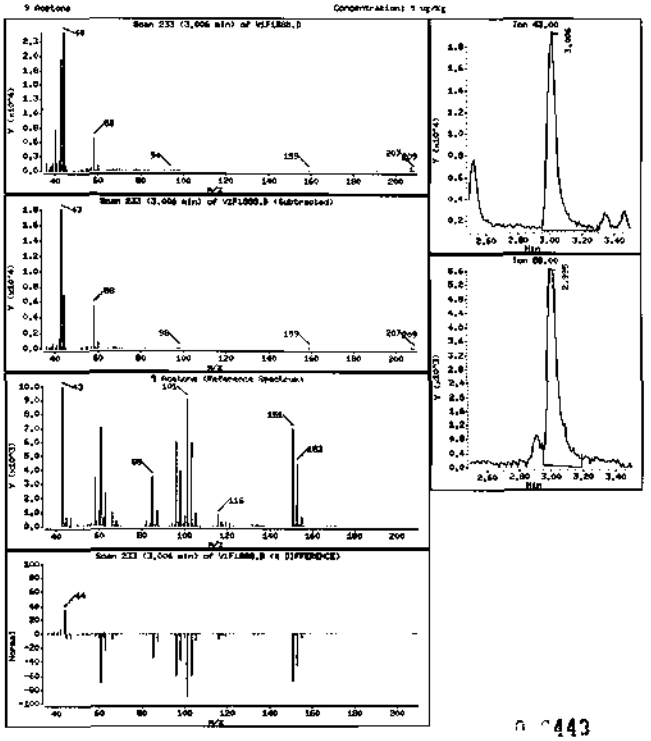
Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1888.D
Lab Smp Id: A1905-23A Client Smp ID: AOC5ASSTB7002
Inj Date : 30-DEC-2002 19:51
Operator : KEM Inst ID: v1.i
Smp Info : HRP,A1905-23A,AOC5ASSTB7002,V1B1230A,,A1905
Misc Info : 23-DEC-02,,,,,,,18.5
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

0 0442



0 0443

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5E7

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-14A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C419S

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. _____ Date Analyzed: 12/29/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	2	J
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U

FORM I VOA OLM03.0

0 0444

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5E7

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-14A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C419S

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. _____ Date Analyzed: 12/29/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

0 0445

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC5E7

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-14A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C419S

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. _____ Date Analyzed: 12/29/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

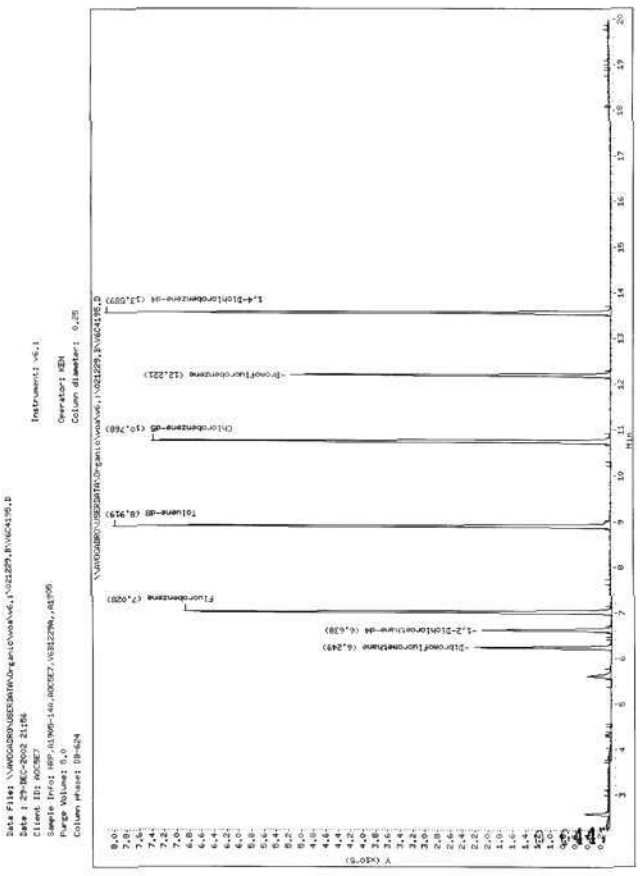
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	2.60	4	J
2.		UNKNOWN	5.62	4	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0

0 0446



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4195.D
Report Date: 09-Jan-2003 12:36

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4195.D
Lab Smp Id: A1905-14A Client Smp ID: AOC5E7
Inj Date : 29-DEC-2002 21:56
Operator : KEN Inst ID: v6.i
Smp Info : HRP,A1905-14A,AOC5E7,V6B1229A,,A1905
Misc Info : 23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\organic\voa\v6.i\021229.B\v68260.m
Meth Date : 09-Jan-2003 12:27 mtl Quant Type: ISTD
Cal Date : 24-DEC-2002 17:54 Cal File: V6C4111.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
14 Methylene Chloride	84	4.334	4.321	(0.617)	8118	1.61336	2(a)
S 30 Dibromofluoromethane	113	6.249	6.249	(0.889)	194441	47.4343	47
S 35 1,2-Dichloroethane-d4	102	6.638	6.632	(0.945)	46338	42.5275	42
* 38 Fluorobenzene	96	7.028	7.021	(1.000)	915988	50.0000	
S 47 Toluene-d8	98	8.919	8.913	(0.828)	826189	51.4853	51
* 57 Chlorobenzene-d5	117	10.768	10.761	(1.000)	662485	50.0000	
S 68 Bromofluorobenzene	95	12.221	12.215	(1.135)	258015	44.1440	44
* 81 1,4-Dichlorobenzene-d4	152	13.589	13.583	(1.000)	303148	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

1/9/03

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4195.D
Report Date: 09-Jan-2003 12:36

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4195.D
Lab Smp Id: A1905-14A Client Smp ID: AOC5E7
Inj Date : 29-DEC-2002 21:56
Operator : KEN Inst ID: v6.i
Smp Info : HRP,A1905-14A,AOC5E7,V6B1229A,,A1905
Misc Info : 23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\v68260.m
Meth Date : 09-Jan-2003 12:27 mtl Quant Type: ISTD
Cal Date : 24-DEC-2002 17:54 Cal File: V6C4111.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/Vo

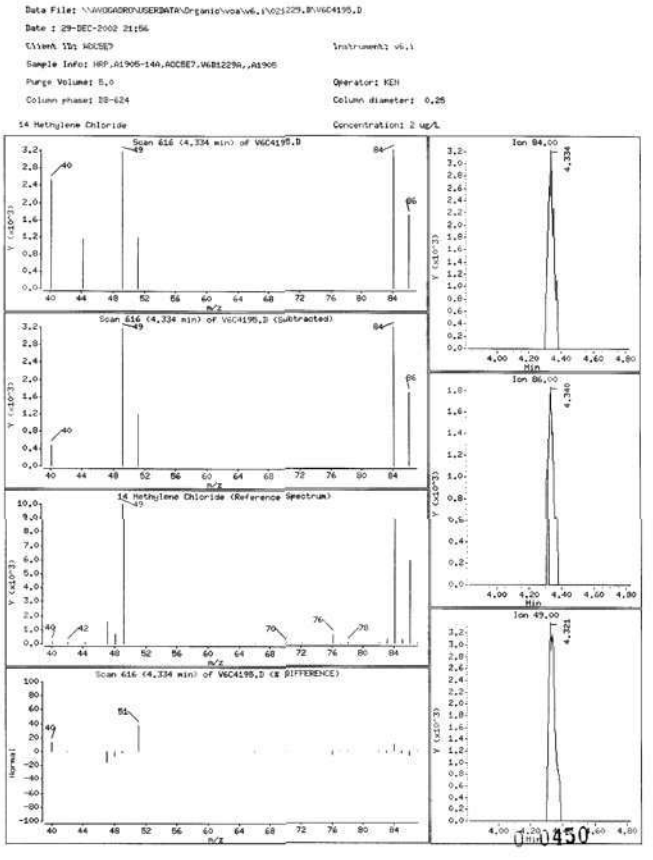
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

ISTD	RT	AREA	AMOUNT
* 38 Fluorobenzene	7.028	1786270	50.000

RT	AREA	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	CAS #
Unknown			CAS #:				
2.600	139892	3.91578742	4	0	0		38(L)
Unknown			CAS #:				
5.617	136171	3.81160183	4	0	0		38(L)

QC Flag Legend

L - Operator selected an alternate library search match.



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4195.D

Date : 29-DEC-2002 21:56

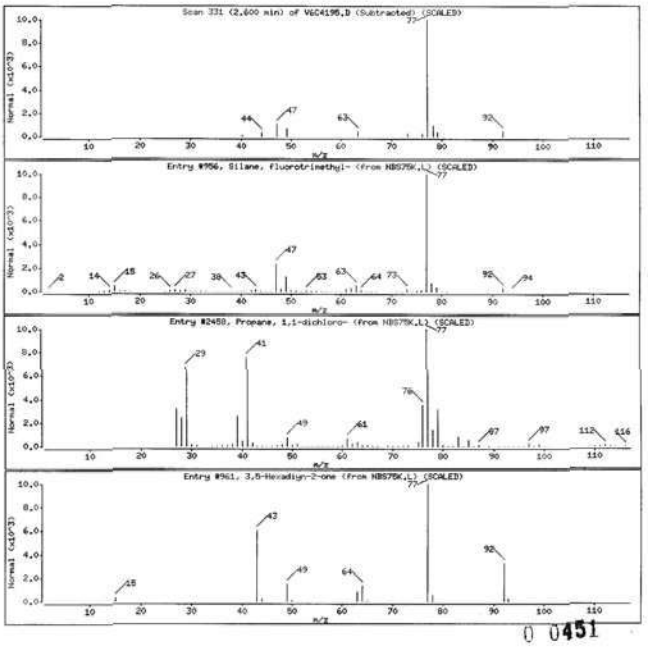
Client ID: AOC5E7 Instrument: v6.i

Sample Info: HBP,A1905-14A,AOC5E7,V6B1229A,,A1905

Purge Volume: 5.0 Operator: KEH

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Silane, fluorotrimethyl-	420-56-4	NBS75K.L	956	83	C3H9FSi	92
Propane, 1,1-dichloro-	78-99-9	NBS75K.L	2458	2	C3H6Cl2	112
3,5-Hexadiyn-2-one	31097-80-0	NBS75K.L	961	2	C6H4O	92



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4195.D

Date : 29-DEC-2002 21:56

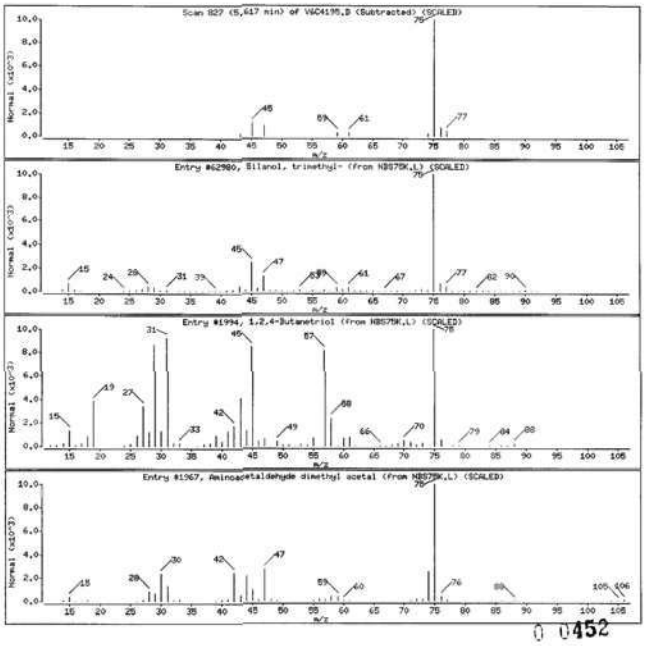
Client ID: AOC5E7 Instrument: v6.i

Sample Info: HBP,A1905-14A,AOC5E7,V6B1229A,,A1905

Purge Volume: 5.0 Operator: KEH

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Silanol, trimethyl-	1066-40-6	NBS75K.L	62980	9	C3H10OSi	90
1,2,4-Butanetriol	3068-00-6	NBS75K.L	1994	2	C4H10O3	106
Aminoacetaldehyde dimethyl acetal	22483-09-6	NBS75K.L	1967	2	C4H11NO2	105



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC5WTB62W

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-16A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4196

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. _____ Date Analyzed: 12/29/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	2	J
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	6	
75-34-3	1,1-Dichloroethane	57	
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC5WTB62W

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-16A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4196

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. _____ Date Analyzed: 12/29/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AOC5WTB62W

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-16A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4196

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. _____ Date Analyzed: 12/29/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

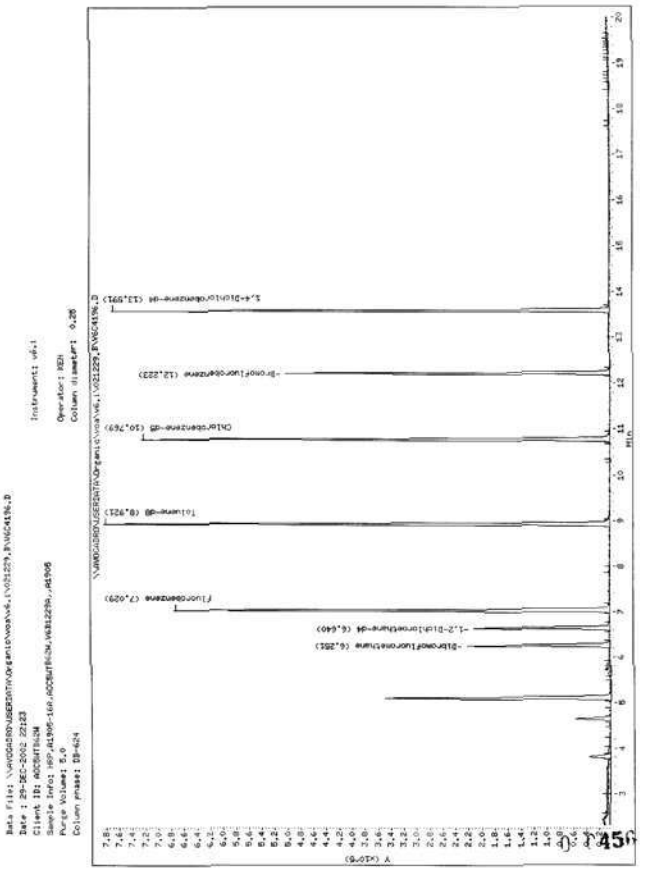
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0

0 0455



0 0456

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4196.D
Report Date: 09-Jan-2003 12:36

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4196.D
Lab Smp Id: A1905-16A Client Smp ID: AOC5WTB62W
Inj Date : 29-DEC-2002 22:23
Operator : KEN Inst ID: v6.i
Smp Info : HRP,A1905-16A,AOC5WTB62W,V6B1229A,,A1905
Misc Info : 23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\v68260.m
Meth Date : 09-Jan-2003 12:27 mtl Quant Type: ISTD
Cal Date : 24-DEC-2002 17:54 Cal File: V6C4111.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
	3 Vinyl Chloride	62	2.420	3.412	(0.344)	13236	2.23710	2(am)	
	8 1,1-Dichloroethene	96	3.812	3.817	(0.542)	24738	4.99241	5	
	17 methyl tert-butyl ether	73	4.646	4.637	(0.661)	71402	5.43485	5	
	18 1,1-Dichloroethane	63	5.096	5.088	(0.725)	449029	56.9334	57	
S	30 Dibromofluoromethane	113	6.261	6.249	(0.989)	188509	47.5957	48	
S	35 1,2-Dichloroethane-d4	102	6.640	6.632	(0.945)	46879	44.3375	44	
*	36 Fluorobenzene	96	7.029	7.021	(1.000)	885032	50.0000		
S	47 Toluene-d8	98	8.921	8.913	(0.828)	812627	52.5976	52	
*	57 Chlorobenzene-d5	117	10.769	10.761	(1.000)	637827	50.0000		
S	68 Bromofluorobenzene	95	12.217	12.215	(1.134)	252919	44.9470	45	
*	81 1,4-Dichlorobenzene-d4	152	13.591	13.589	(1.000)	291738	50.0000		

SB 1/9/03

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

0 0457

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4196.D
Report Date: 09-Jan-2003 12:36

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4196.D
Lab Smp Id: A1905-16A Client Smp ID: AOC5WTB62W
Inj Date : 29-DEC-2002 22:23
Operator : KEN Inst ID: v6.i
Smp Info : HRP,A1905-16A,AOC5WTB62W,V6B1229A,,A1905
Misc Info : 23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\v68260.m
Meth Date : 09-Jan-2003 12:27 mtl Quant Type: ISTD
Cal Date : 24-DEC-2002 17:54 Cal File: V6C4111.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

0 0458

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4196.D

Date : 29-DEC-2002 22:23

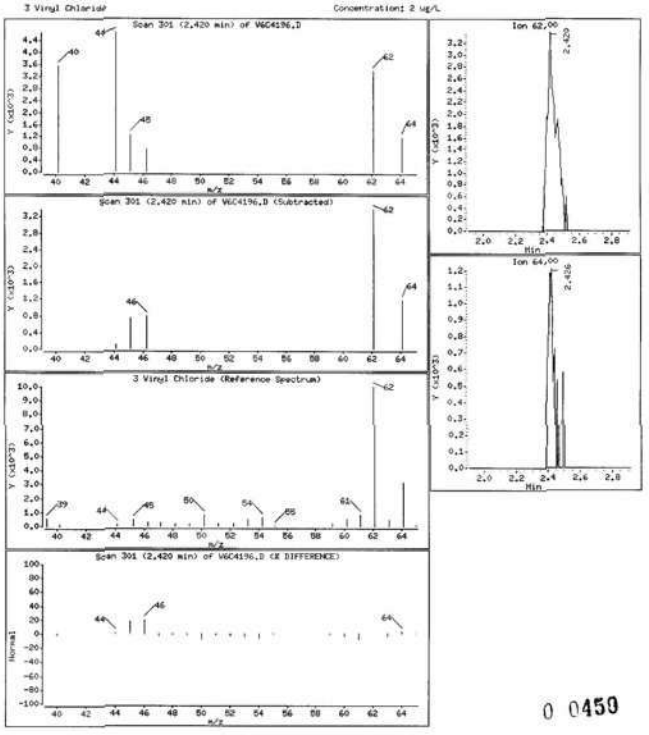
Client ID: AOCSWTB62W — Instrument: v6.i

Sample Info: HRP,A1905-16A,AOCSWTB62W,V6B1229A,,A1905

Purge Volume: 5.0 — Operator: KEN

Column phase: DB-624 — Column diameter: 0.25

3 Vinyl Chloride — Concentration: 2 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4196.D

Date : 29-DEC-2002 22:23

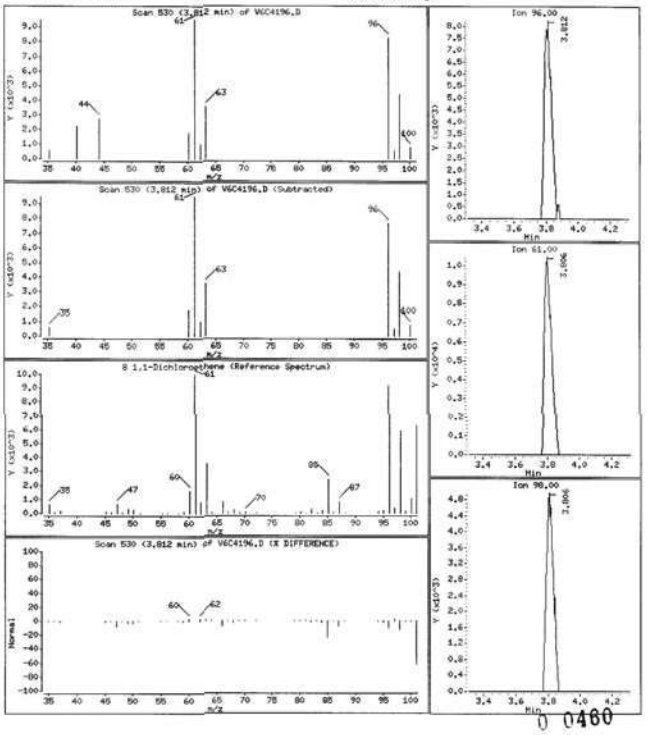
Client ID: AOCSWTB62W — Instrument: v6.i

Sample Info: HRP,A1905-16A,AOCSWTB62W,V6B1229A,,A1905

Purge Volume: 5.0 — Operator: KEN

Column phase: DB-624 — Column diameter: 0.25

8 1,1-Dichloroethene — Concentration: 5 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4196.D

Date : 29-DEC-2002 22:23

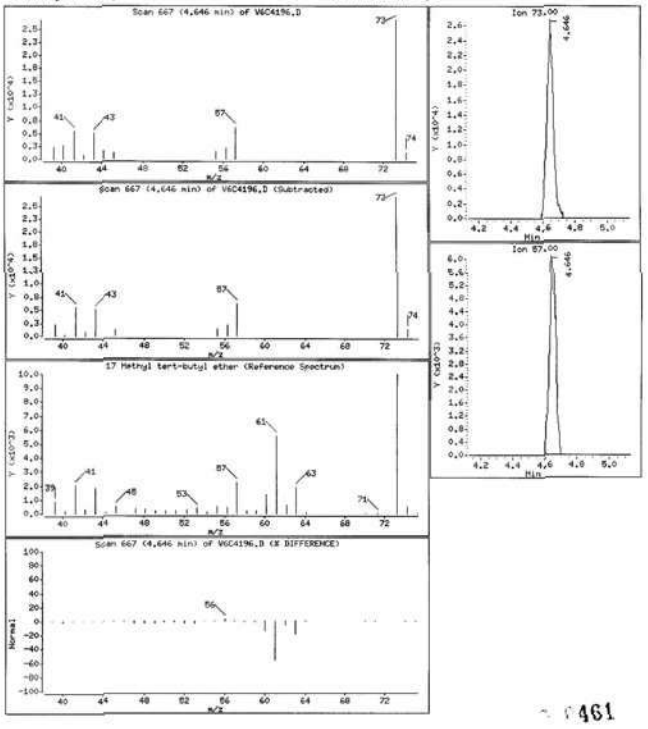
Client ID: AOCSWTB62W — Instrument: v6.i

Sample Info: HRP,A1905-16A,AOCSWTB62W,V6B1229A,,A1905

Purge Volume: 5.0 — Operator: KEN

Column phase: DB-624 — Column diameter: 0.25

17 Methyl tert-butyl ether — Concentration: 6 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4196.D

Date : 29-DEC-2002 22:23

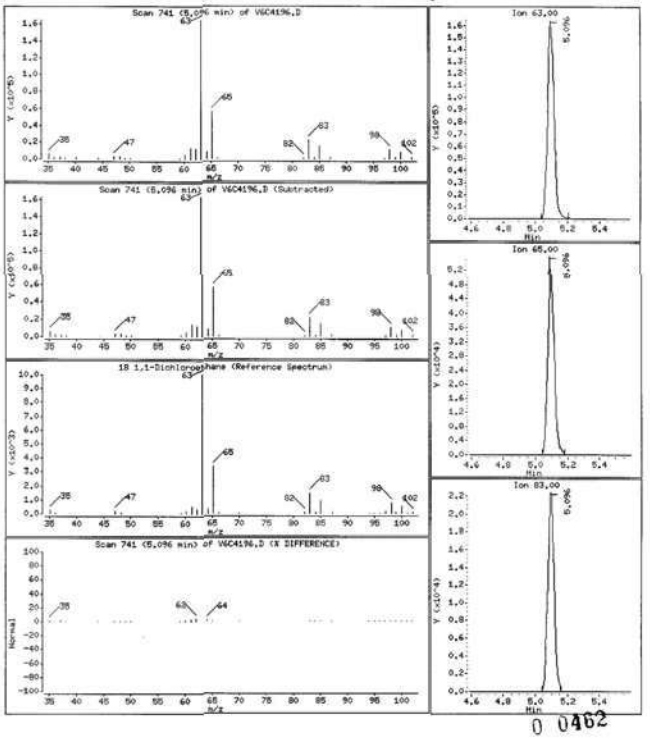
Client ID: AOCSWTB62W — Instrument: v6.i

Sample Info: HRP,A1905-16A,AOCSWTB62W,V6B1229A,,A1905

Purge Volume: 5.0 — Operator: KEN

Column phase: DB-624 — Column diameter: 0.25

18 1,1-Dichloroethane — Concentration: 57 ug/L



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC6SSTB7167

Lab Name: MITKEM CORPORATION   Contract:

Lab Code: MITKEM   Case No.:   SAS No.:   SDG No.: A1905

Matrix: (soil/water) SOIL   Lab Sample ID: A1905-22A

Sample wt/vol: 7.0 (g/mL) G   Lab File ID: V1F1887

Level: (low/med) LOW   Date Received: 12/23/02

% Moisture: not dec. 37   Date Analyzed: 12/30/02

GC Column: DB-624   ID: 0.25 (mm)   Dilution Factor: 1.0

Soil Extract Volume: _______ (mL)   Soil Aliquot Volume: _______ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	6	U
74-87-3	Chloromethane	6	U
75-01-4	Vinyl Chloride	6	U
74-83-9	Bromomethane	6	U
75-00-3	Chloroethane	6	U
75-69-4	Trichlorofluoromethane	6	U
75-35-4	1,1-Dichloroethene	6	U
67-64-1	Acetone	100	
75-09-2	Methylene Chloride	6	U
156-60-5	trans-1,2-Dichloroethene	6	U
1634-04-4	Methyl tert-butyl ether	6	U
75-34-3	1,1-Dichloroethane	6	U
78-93-3	2-Butanone	23	
156-59-2	cis-1,2-Dichloroethene	6	U
590-20-7	2,2-Dichloropropane	6	U
74-97-5	Bromochloromethane	6	U
67-66-3	Chloroform	6	U
109-99-9	Tetrahydrofuran	6	U
71-55-6	1,1,1-Trichloroethane	6	U
563-58-6	1,1-Dichloropropene	6	U
56-23-5	Carbon Tetrachloride	6	U
107-06-2	1,2-Dichloroethane	6	U
71-43-2	Benzene	6	U
79-01-6	Trichloroethene	6	U
78-87-5	1,2-Dichloropropane	6	U
74-95-3	Dibromomethane	6	U
75-27-4	Bromodichloromethane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
108-10-1	4-Methyl-2-pentanone	6	U
108-88-3	Toluene	2	J
10061-02-6	trans-1,3-Dichloropropene	6	U
79-00-5	1,1,2-Trichloroethane	6	U
142-28-9	1,3-Dichloropropane	6	U
127-18-4	Tetrachloroethene	6	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC6SSTB7167

Lab Name: MITKEM CORPORATION   Contract:

Lab Code: MITKEM   Case No.:   SAS No.:   SDG No.: A1905

Matrix: (soil/water) SOIL   Lab Sample ID: A1905-22A

Sample wt/vol: 7.0 (g/mL) G   Lab File ID: V1F1887

Level: (low/med) LOW   Date Received: 12/23/02

% Moisture: not dec. 37   Date Analyzed: 12/30/02

GC Column: DB-624   ID: 0.25 (mm)   Dilution Factor: 1.0

Soil Extract Volume: _______ (mL)   Soil Aliquot Volume: _______ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	6	U
124-48-1	Dibromochloromethane	6	U
106-93-4	1,2-Dibromoethane	6	U
108-90-7	Chlorobenzene	6	U
630-20-6	1,1,1,2-Tetrachloroethane	6	U
100-41-4	Ethylbenzene	3	J
----------	m,p-Xylene	41	
95-47-6	o-Xylene	28	
1330-20-7	Xylene (Total)	68	
100-42-5	Styrene	6	U
75-25-2	Bromoform	6	U
98-82-8	Isopropylbenzene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-86-1	Bromobenzene	6	U
96-18-4	1,2,3-Trichloropropane	6	U
103-65-1	n-Propylbenzene	6	U
95-49-8	2-Chlorotoluene	6	U
108-67-8	1,3,5-Trimethylbenzene	6	U
106-43-4	4-Chlorotoluene	6	U
98-06-6	tert-Butylbenzene	6	U
95-63-6	1,2,4-Trimethylbenzene	6	U
135-98-8	sec-Butylbenzene	6	U
99-87-6	4-Isopropyltoluene	6	U
541-73-1	1,3-Dichlorobenzene	6	U
106-46-7	1,4-Dichlorobenzene	6	U
104-51-8	n-Butylbenzene	6	U
95-50-1	1,2-Dichlorobenzene	6	U
96-12-8	1,2-Dibromo-3-chloropropane	6	U
120-82-1	1,2,4-Trichlorobenzene	6	U
87-68-3	Hexachlorobutadiene	6	U
91-20-3	Naphthalene	6	U
87-61-6	1,2,3-Trichlorobenzene	6	U
544-10-5	1-Chlorohexane	6	U
107-13-1	Acrylonitrile	6	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: AOC6SSTB7167

Lab Name: MITKEM CORPORATION   Contract:

Lab Code: MITKEM   Case No.:   SAS No.:   SDG No.: A1905

Matrix: (soil/water) SOIL   Lab Sample ID: A1905-22A

Sample wt/vol: 7.0 (g/mL) G   Lab File ID: V1F1887

Level: (low/med) LOW   Date Received: 12/23/02

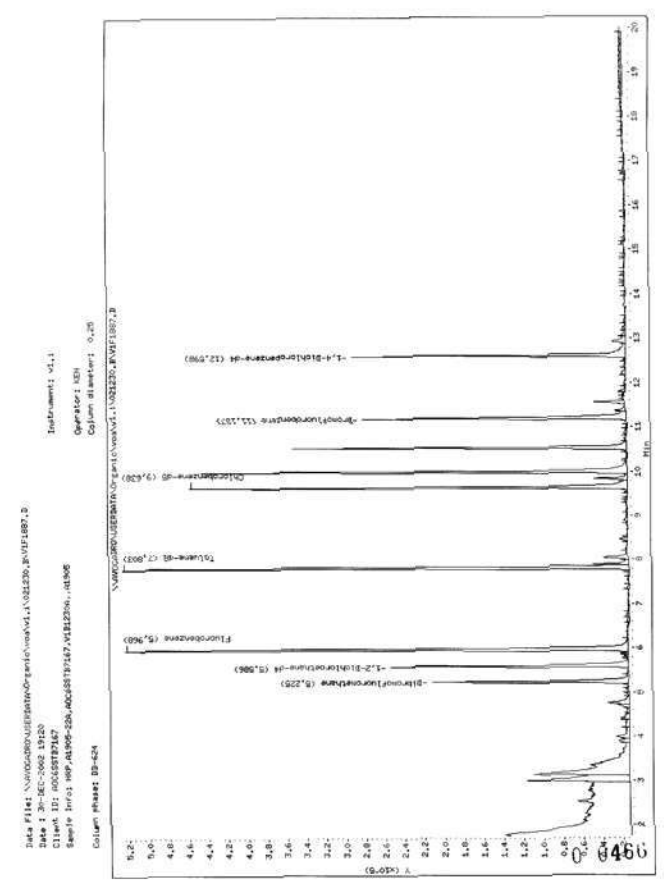
% Moisture: not dec. 37   Date Analyzed: 12/30/02

GC Column: DB-624   ID: 0.25 (mm)   Dilution Factor: 1.0

Soil Extract Volume: _______ (mL)   Soil Aliquot Volume: _______ (uL)

Number TICs found: 2   CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.15	49	J
2. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	11.56	7	NJ
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1887.D
Report Date: 09-Jan-2003 16:24

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1887.D
Lab Smp Id: A1905-22A Client Smp ID: AOC6SSTB7167
Inj Date : 30-DEC-2002 19:20
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-22A,AOC6SSTB7167,V1B1230A,,A1905
Misc Info : 23-DEC-02,,,,,,7.0
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1,000	ng unit correction factor
Ws	7.000	Weight of sample (g)
M	37.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
9 Acetone	43	2.998	2.998	(0.502)	163100	90.7051	100
22 2-Butanone	43	4.759	4.748	(0.797)	51053	20.3283	23
S 30 Dibromofluoromethane	113	5.225	5.225	(0.876)	159929	49.8056	56
S 35 1,2-Dichloroethane-d4	102	5.586	5.586	(0.936)	38257	50.6041	57
* 38 Fluorobenzene	96	5.968	5.957	(1.000)	5780?6	50.0000	
S 47 Toluene-d8	98	7.803	7.803	(0.810)	433695	52.6844	60
48 Toluene	91	7.868	7.868	(1.322)	25392	1.88620	2(a)
* 57 Chlorobenzene-d5	117	9.638	9.638	(1.000)	318472	50.0000	
60 Ethylbenzene	106	9.840	9.829	(1.021)	8210	2.40175	3(a)
61 m,p-Xylene	106	9.995	9.999	(1.037)	166446	36.0334	41
62 o-Xylene	106	10.519	10.518	(1.091)	109790	24.4229	28
S 68 Bromofluorobenzene	95	11.187	11.187	(1.161)	123148	36.1797	41
* 81 1,4-Dichlorobenzene-d4	152	12.598	12.597	(1.000)	97021	50.0000	
M 63 Xylene (Total)	106				276236	60.4563	68

1/9/03

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1887.D
Report Date: 09-Jan-2003 16:24

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1887.D
Lab Smp Id: A1905-22A Client Smp ID: AOC6SSTB7167
Inj Date : 30-DEC-2002 19:20
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-22A,AOC6SSTB7167,V1B1230A,,A1905
Misc Info : 23-DEC-02,,,,,,7.0
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

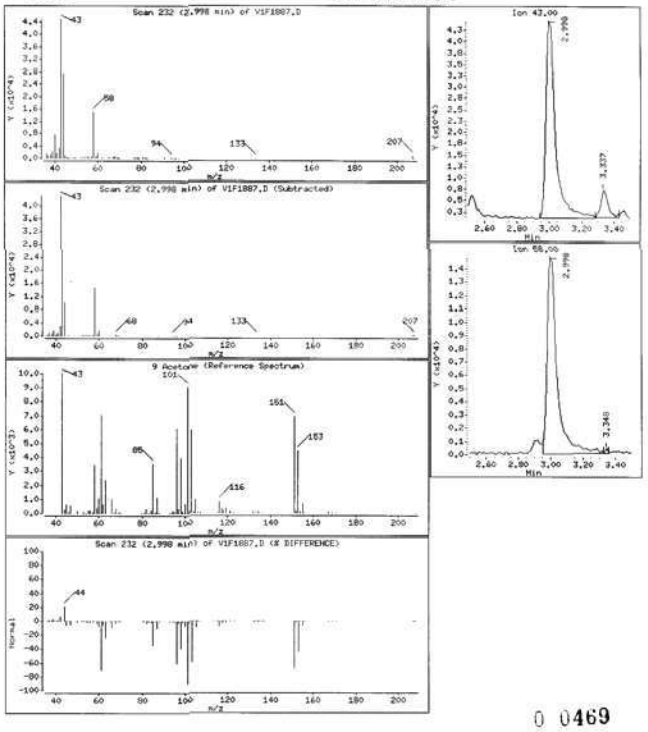
Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	7.000	Weight of sample (g)
M	37.000	% Moisture (not decanted)

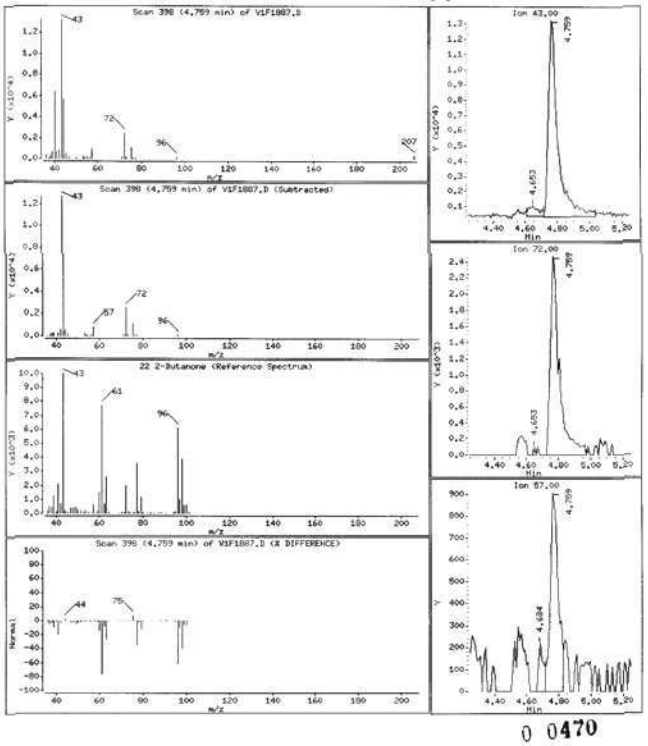
ISTD	RT	AREA	AMOUNT
* 38 Fluorobenzene	5.968	1300968	50.000
* 81 1,4-Dichlorobenzene-d4	12.598	651247	50.000

RT	AREA	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug/Kg)	QUANT QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown			CAS #:				
3.146	1116174	42.8978268	49	0		0	38
Cyclotetrasiloxane, octamethyl-			CAS #: 556-67-2				
11.558	76642	5.88424975	7	86	NBS75K.L	72646	81

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1887.D
Date : 30-DEC-2002 19:20
Client ID: AOC6SSTB7167 Instrument: v1.i
Sample Info: HRP,A1905-22A,AOC6SSTB7167,V1B1230A,,A1905
Operator: KEN
Column phase: DB-624 Column diameter: 0.25
9 Acetone Concentration: 100 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1887.D
Date : 30-DEC-2002 19:20
Client ID: AOC6SSTB7167 Instrument: v1.i
Sample Info: HRP,A1905-22A,AOC6SSTB7167,V1B1230A,,A1905
Operator: KEN
Column phase: DB-624 Column diameter: 0.25
22 2-Butanone Concentration: 23 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021230.B\V1F1887.D

Date : 30-DEC-2002 19:20

Client ID: AOC6SSTB7167

Instrument: v1.1

Sample Info: HRP,A1905-22A,AOC6SSTB7167,V1B1230A,,A1905

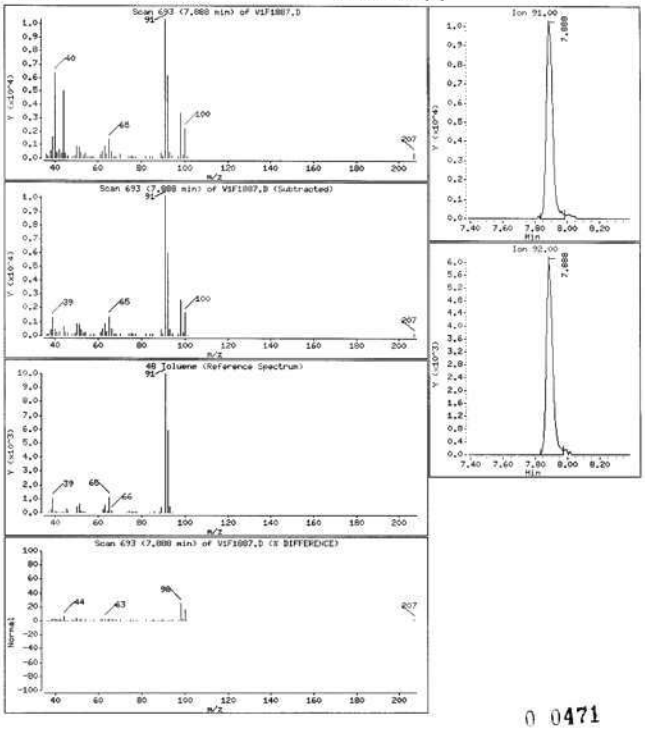
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

48 Toluene

Concentration: 2 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021230.B\V1F1887.D

Date : 30-DEC-2002 19:20

Client ID: AOC6SSTB7167

Instrument: v1.1

Sample Info: HRP,A1905-22A,AOC6SSTB7167,V1B1230A,,A1905

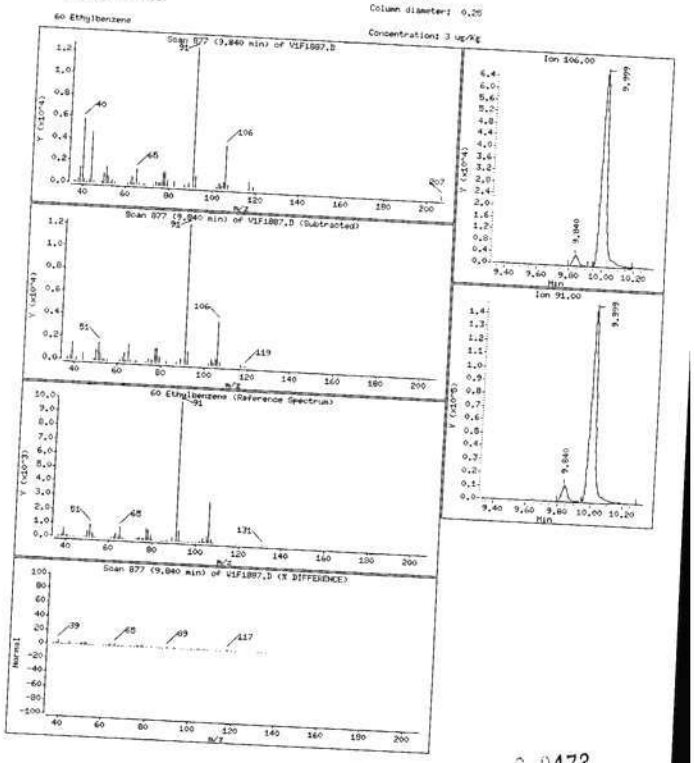
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

60 Ethylbenzene

Concentration: 3 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021230.B\V1F1887.D

Date : 30-DEC-2002 19:20

Client ID: AOC6SSTB7167

Instrument: v1.1

Sample Info: HRP,A1905-22A,AOC6SSTB7167,V1B1230A,,A1905

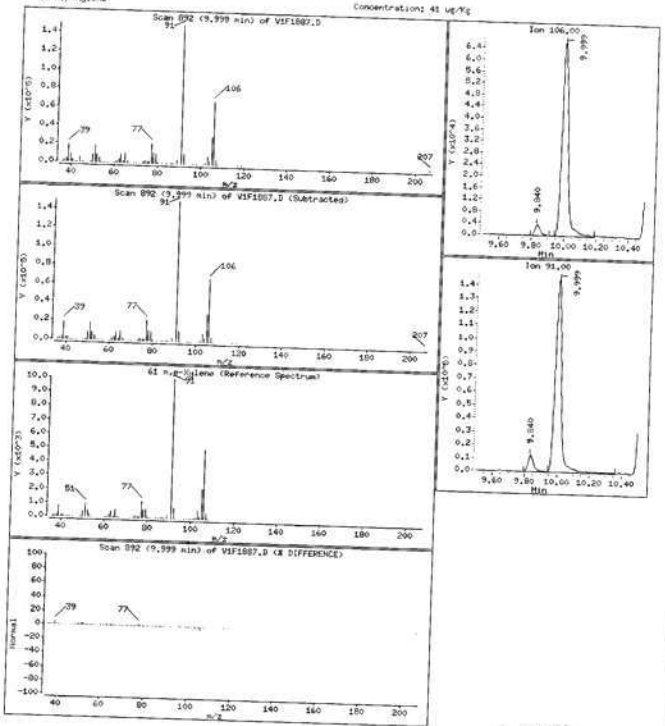
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

61 m,p-Xylene

Concentration: 41 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.1\021230.B\V1F1887.D

Date : 30-DEC-2002 19:20

Client ID: AOC6SSTB7167

Instrument: v1.1

Sample Info: HRP,A1905-22A,AOC6SSTB7167,V1B1230A,,A1905

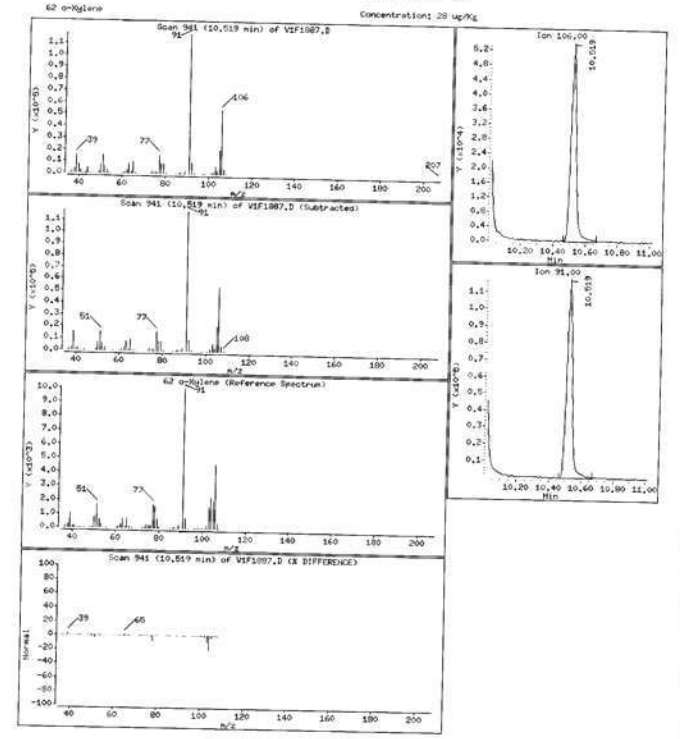
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

62 o-Xylene

Concentration: 28 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1807.D

Date : 30-DEC-2002 19:20

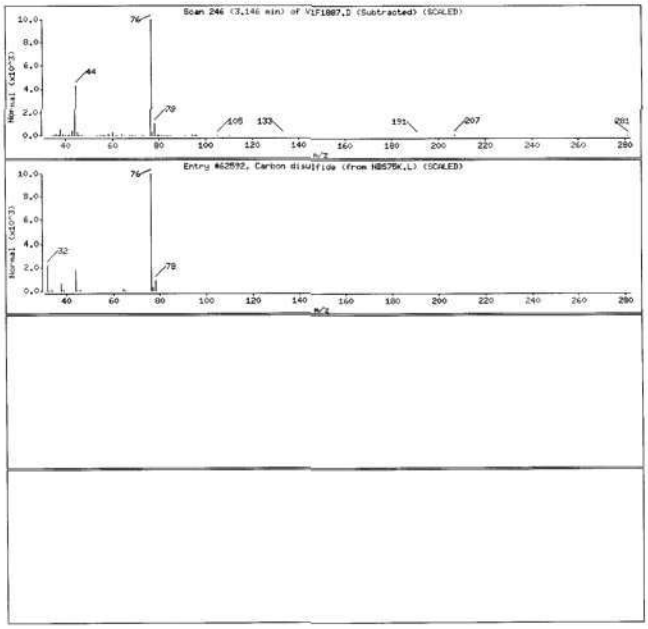
Client ID: A0C6SSTB7167 Instrument: v1.i

Sample Info: HFP,A1906-22A,A0C6SSTB7167,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Carbon disulfide	75-15-0	NBS75K.L	62592	72	CS2	76



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC7WTB65GW

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-18A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4197

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. _____ Date Analyzed: 12/29/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	4	J
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	12	
75-34-3	1,1-Dichloroethane	2	J
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	2	J
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC7WTB65GW

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-18A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4197

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: not dec. _____ Date Analyzed: 12/29/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC7WTB65GW

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-18A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4197

Level: (low/med) LOW Date Received: 12/23/02

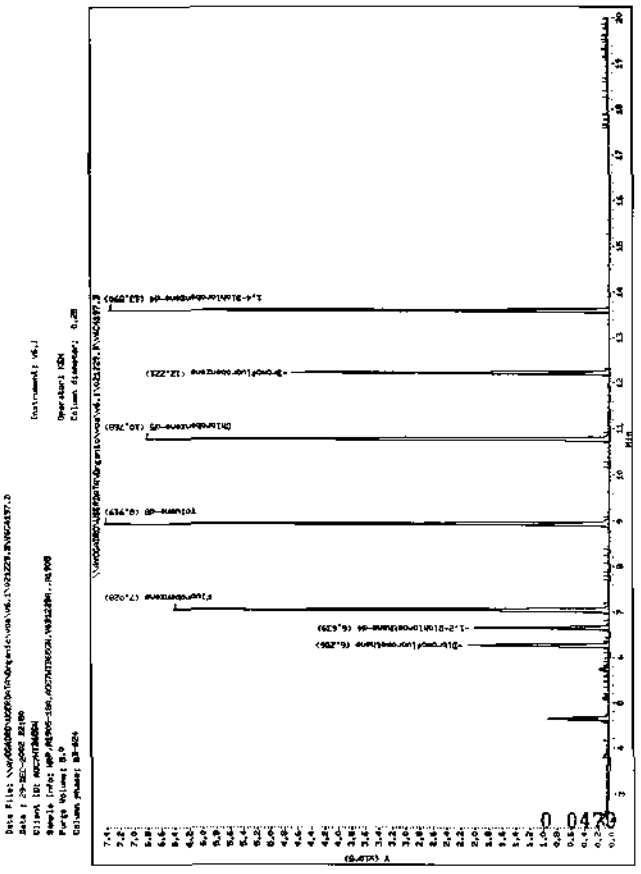
% Moisture: not dec. _____ Date Analyzed: 12/29/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				



0 0479

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4197.D
Report Date: 09-Jan-2003 12:36

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4197.D
Lab Smp Id: A1905-18A Client Smp ID: AOC7WTB65GW
Inj Date : 29-DEC-2002 22:50
Operator : KEN Inst ID: v6.i
Smp Info : HRP,A1905-18A,AOC7WTB65GW,V6B1229A,,A1905
Misc Info : 23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\v68260.m
Meth Date : 09-Jan-2003 12:27 mtl Quant Type: ISTD
Cal Date : 24-DEC-2002 17:54 Cal File: V6C4111.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	RTD RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Vinyl chloride	62	2.447	2.443	(0.347)	32500	3.95369	4(AM)
17 Methyl tert-butyl ether	73	4.650	4.637	(0.642)	329835	11.9067	12
18 1,1 Dichloroethane	63	5.100	5.088	(0.736)	14891	1.98227	2(B)
22 cis-1,2-Dichloroethene	96	5.739	5.725	(0.817)	11060	2.29386	2(B)
30 Dibromofluoromethane	113	6.366	6.349	(0.898)	176826	46.8208	47
36 1,2-Dichloroethane-d4	102	6.474	6.452	(0.949)	62696	62.1378	62
39 Fluorobenzene	96	7.038	7.021	(1.000)	842370	50.0000	
47 Toluene d8	98	8.959	8.915	(0.826)	758053	51.1833	51
57 Chlorobenzene-d5	117	10.768	10.724	(1.000)	611488	50.0000	
69 Bromofluorobenzene	95	13.231	13.216	(1.115)	234549	63.4799	63
81 1,4-Dichlorobenzene-d4	152	13.595	13.589	(1.000)	295486	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

0 0480

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4197.D
Report Date: 09-Jan-2003 12:36

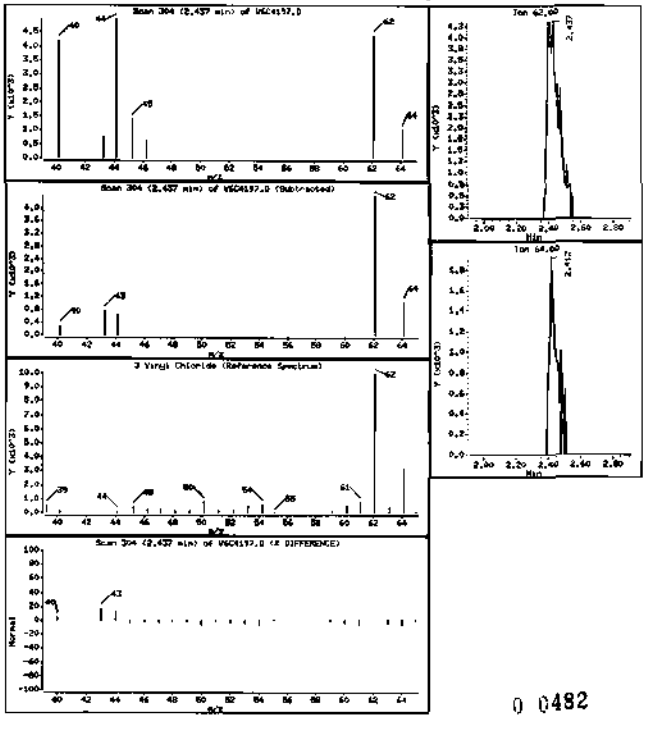
Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4197.D
Lab Smp Id: A1905-18A Client Smp ID: AOC7WTB65GW
Inj Date : 29-DEC-2002 22:50
Operator : KEN Inst ID: v6.i
Smp Info : HRP,A1905-18A,AOC7WTB65GW,V6B1229A,,A1905
Misc Info : 23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\v68260.m
Meth Date : 09-Jan-2003 12:27 mtl Quant Type: ISTD
Cal Date : 24-DEC-2002 17:54 Cal File: V6C4111.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

0 0481



0 0482

Data File: \\AWOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4197.D

Date : 29-DEC-2002 22:50

Client ID: AOC7WT865GW

Instrument: v6.i

Sample Info: HRP,A1905-18A,AOC7WT865GW,V6B1229A,,A1905

Purge Volume: 5.0

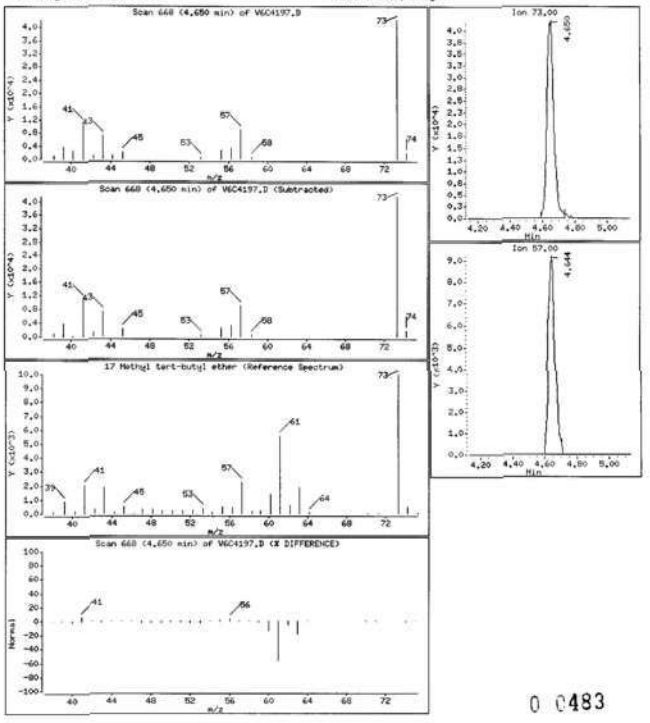
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

17 Methyl tert-butyl ether

Concentration: 12 ug/L



Data File: \\AWOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4197.D

Date : 29-DEC-2002 22:50

Client ID: AOC7WT865GW

Instrument: v6.i

Sample Info: HRP,A1905-18A,AOC7WT865GW,V6B1229A,,A1905

Purge Volume: 5.0

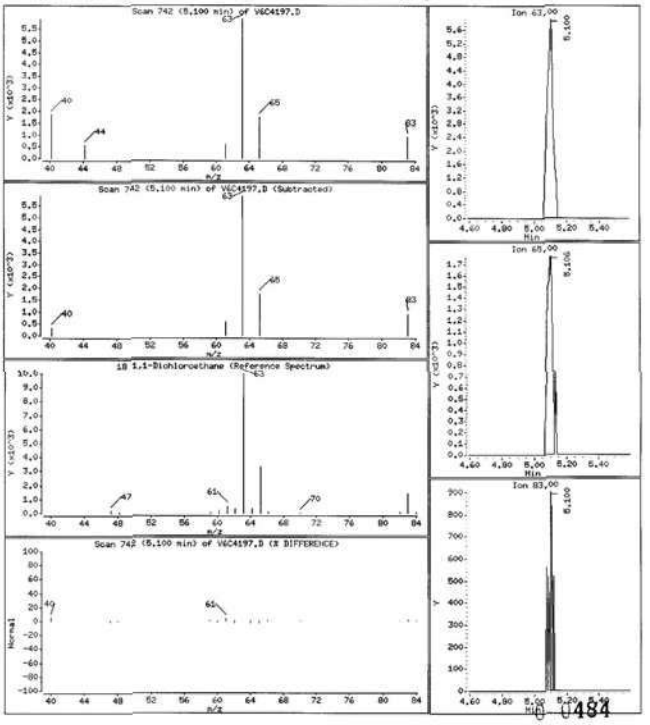
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

18 1,1-Dichloroethane

Concentration: 2 ug/L



Data File: \\AWOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4197.D

Date : 29-DEC-2002 22:50

Client ID: AOC7WT865GW

Instrument: v6.i

Sample Info: HRP,A1905-18A,AOC7WT865GW,V6B1229A,,A1905

Purge Volume: 5.0

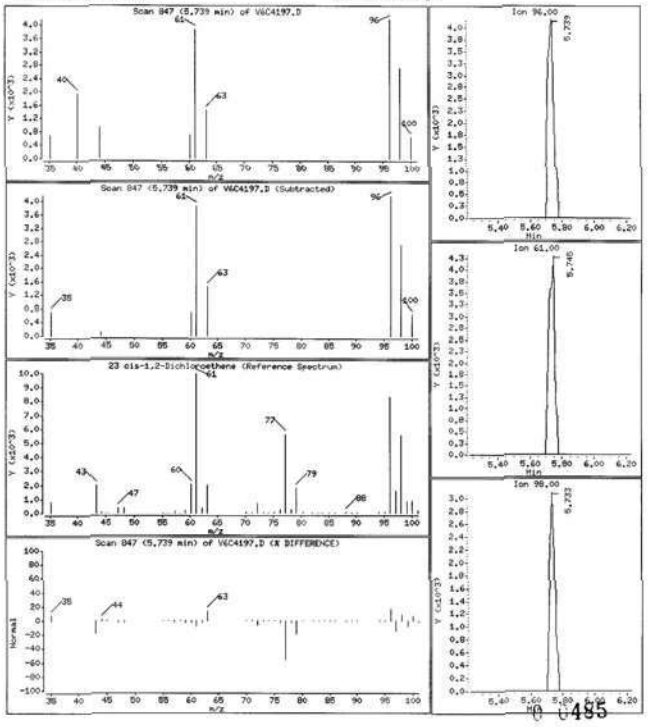
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

23 cis-1,2-Dichloroethene

Concentration: 2 ug/L



Data File: \\AWOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1887.D

Date : 30-DEC-2002 19:20

Client ID: AOC6SST87167

Instrument: v1.i

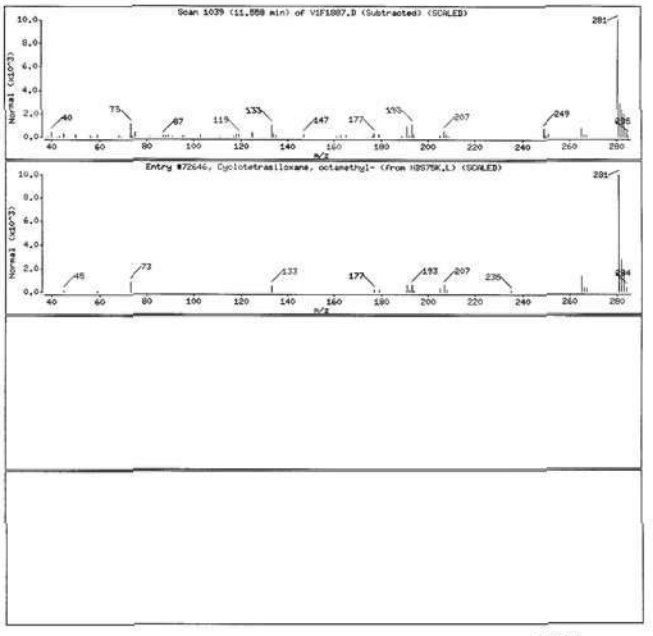
Sample Info: HRP,A1905-22A,AOC6SST87167,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST98.L	72646	86	C8H24O4Si4	296



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC7SSTB6578

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-17A
Sample wt/vol: 4.0 (g/mL) G Lab File ID: V1F1886
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 43 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	11	U
75-35-4	1,1-Dichloroethene	11	U
67-64-1	Acetone	170	
75-09-2	Methylene Chloride	11	U
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl tert-butyl ether	11	U
75-34-3	1,1-Dichloroethane	2	J
78-93-3	2-Butanone	36	
156-59-2	cis-1,2-Dichloroethene	11	U
590-20-7	2,2-Dichloropropane	11	U
74-97-5	Bromochloromethane	11	U
67-66-3	Chloroform	11	U
109-99-9	Tetrahydrofuran	11	U
71-55-6	1,1,1-Trichloroethane	11	U
563-58-6	1,1-Dichloropropene	11	U
56-23-5	Carbon Tetrachloride	11	U
107-06-2	1,2-Dichloroethane	11	U
71-43-2	Benzene	11	U
79-01-6	Trichloroethene	11	U
78-87-5	1,2-Dichloropropane	11	U
74-95-3	Dibromomethane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-pentanone	11	U
108-88-3	Toluene	15	
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
142-28-9	1,3-Dichloropropane	11	U
127-18-4	Tetrachloroethene	11	U

FORM I VOA OLM03.0

0 0487

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC7SSTB6578

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-17A
Sample wt/vol: 4.0 (g/mL) G Lab File ID: V1F1886
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 43 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
630-20-6	1,1,1,2-Tetrachloroethane	11	U
100-41-4	Ethylbenzene	11	U
	m,p-Xylene	11	U
95-47-6	o-Xylene	11	U
1330-20-7	Xylene (Total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-86-1	Bromobenzene	11	U
96-18-4	1,2,3-Trichloropropane	11	U
103-65-1	n-Propylbenzene	11	U
95-49-8	2-Chlorotoluene	11	U
108-67-8	1,3,5-Trimethylbenzene	11	U
106-43-4	4-Chlorotoluene	11	U
98-06-6	tert-Butylbenzene	11	U
95-63-6	1,2,4-Trimethylbenzene	11	U
135-98-8	sec-Butylbenzene	11	U
99-87-6	4-Isopropyltoluene	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
104-51-8	n-Butylbenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
87-68-3	Hexachlorobutadiene	11	U
91-20-3	Naphthalene	11	U
87-61-6	1,2,3-Trichlorobenzene	11	U
544-10-5	1-Chlorohexane	11	U
107-13-1	Acrylonitrile	11	U

FORM I VOA OLM03.0

0 0488

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC7SSTB6578

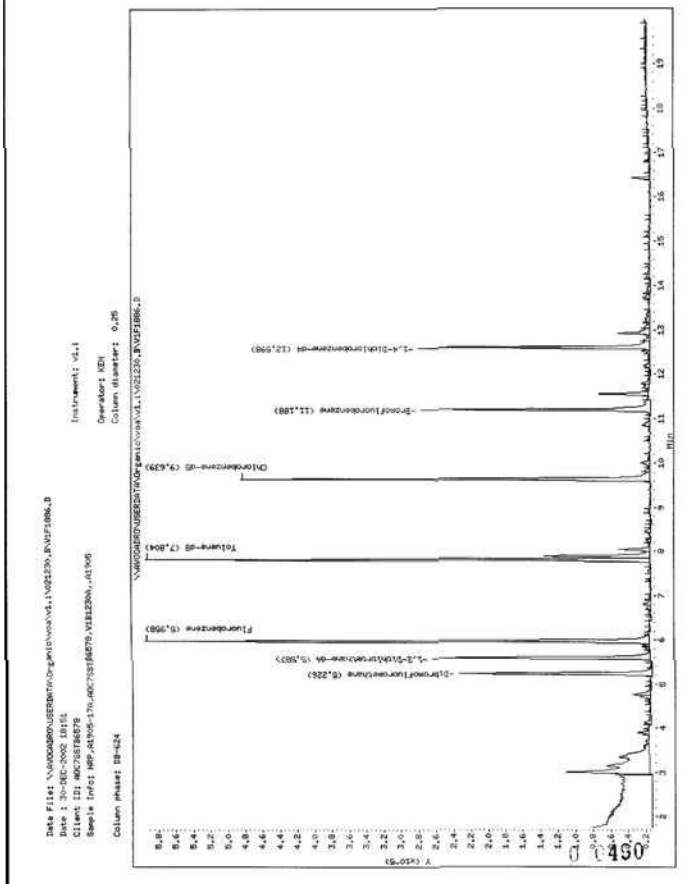
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-17A
Sample wt/vol: 4.0 (g/mL) G Lab File ID: V1F1886
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: not dec. 43 Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 556-67-2	CYCLOTETRASILOXANE, OCTAMETH	11.56	26	NJ
2.	UNKNOWN	12.92	22	J
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

0 0489



0 0490

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1886.D
Report Date: 09-Jan-2003 16:24

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1886.D
Lab Smp Id: A1905-17A Client Smp ID: AOC7SSTB6578
Inj Date : 30-DEC-2002 18:51
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-17A,AOC7SSTB6578,V1B1230A,,A1905
Misc Info : 23-DEC-02,,,,,,4.0
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	4.000	Weight of sample (g)
M	43.000	% Moisture (not decanted)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
	9 Acetone	43	2.998	2.998	(0.502)	162260	77.4611	170
	18 1,1-Dichloroethane	63	4.123	4.122	(0.691)	8746	1.18482	2(a)
	22 2-Butanone	43	4.759	4.748	(0.797)	47921	16.5797	36
S	30 Dibromofluoromethane	113	5.226	5.225	(0.876)	175437	48.5569	110
S	35 1,2-Dichloroethane-d4	102	5.587	5.586	(0.936)	40719	46.8015	100
*	38 Fluorobenzene	96	5.969	5.957	(1.000)	665269	50.0000	
S	47 Toluene-d8	98	7.804	7.803	(0.810)	483666	54.3752	120
	48 Toluene	91	7.889	7.888	(1.122)	104980	6.76972	15
*	57 Chlorobenzene-d5	117	9.639	9.638	(1.000)	344339	50.0000	
S	68 Bromofluorobenzene	95	11.188	11.187	(1.161)	121045	33.4549	73
*	81 1,4-Dichlorobenzene-d4	152	12.598	12.597	(1.000)	98000	50.0000	

1/9/03

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1886.D
Report Date: 09-Jan-2003 16:24

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1886.D
Lab Smp Id: A1905-17A Client Smp ID: AOC7SSTB6578
Inj Date : 30-DEC-2002 18:51
Operator : KEN Inst ID: v1.i
Smp Info : HRP,A1905-17A,AOC7SSTB6578,V1B1230A,,A1905
Misc Info : 23-DEC-02,,,,,,4.0
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

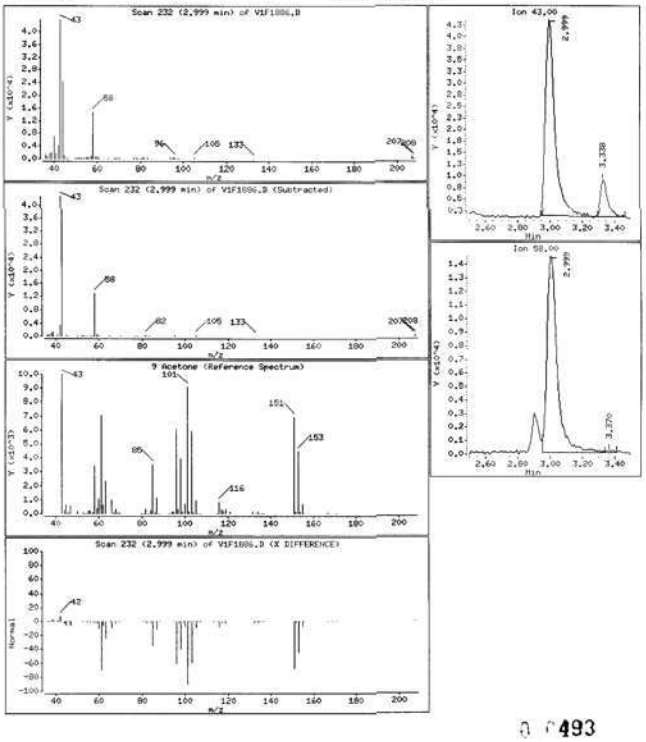
Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	4.000	Weight of sample (g)
M	43.000	% Moisture (not decanted)

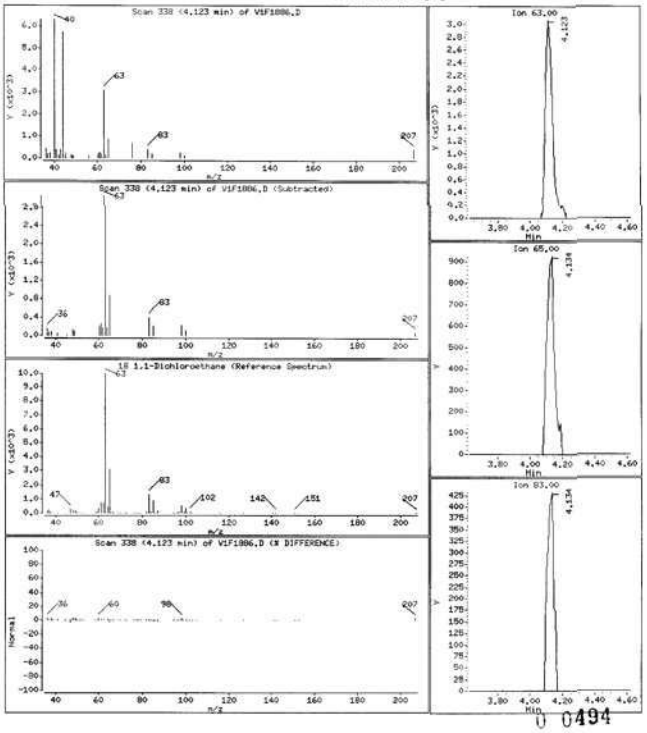
ISTD	RT	AREA	AMOUNT
* 81 1,4-Dichlorobenzene-d4	12.598	597861	50.000

RT	AREA	CONCENTRATIONS ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CFND #
Cyclotetrasiloxane, octamethyl-			CAS #: 556-67-2				
11.559	139277	11.6479416	24	86	RPBISK.L	41966	81
Unknown			CAS #:				
12.917	119875	10.0253236	22	0		0	81

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1886.D
Date : 30-DEC-2002 18:51
Client ID: AOC7SSTB6578 Instrument: v1.i
Sample Info: HRP,A1905-17A,AOC7SSTB6578,V1B1230A,,A1905
Operator: KEN
Column phase: DB-624 Column diameter: 0.25
9 Acetone Concentration: 170 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1886.D
Date : 30-DEC-2002 18:51
Client ID: AOC7SSTB6578 Instrument: v1.i
Sample Info: HRP,A1905-17A,AOC7SSTB6578,V1B1230A,,A1905
Operator: KEN
Column phase: DB-624 Column diameter: 0.25
18 1,1-Dichloroethane Concentration: 2 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1886.D

Date : 30-DEC-2002 10:51

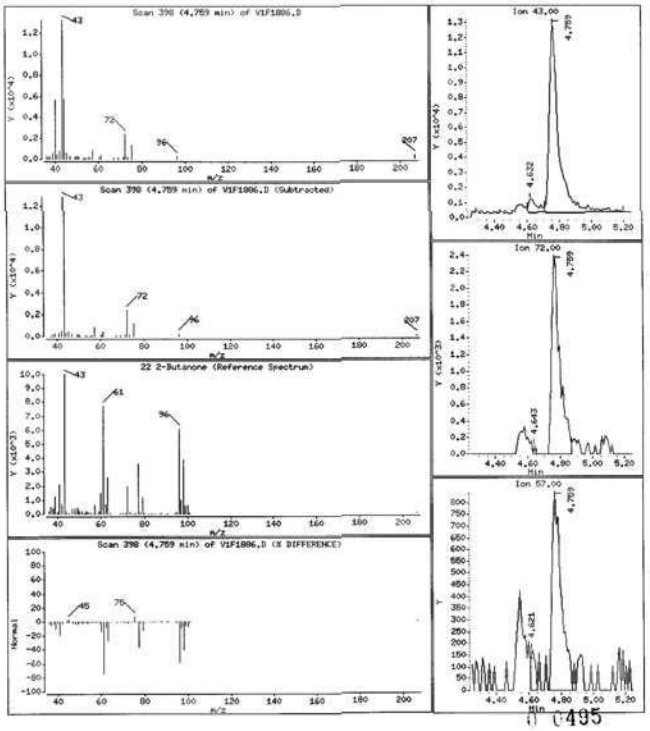
Client ID: AOC7SSTB6578 Instrument: v1.i

Sample Info: HRP,A1905-17A,AOC7SSTB6578,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

22 2-Butanone Concentration: 36 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1886.D

Date : 30-DEC-2002 10:51

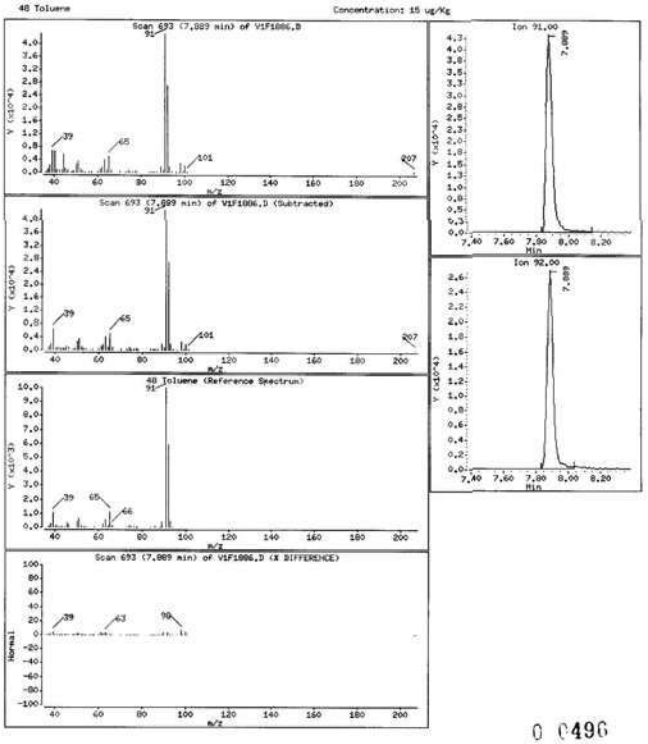
Client ID: AOC7SSTB6578 Instrument: v1.i

Sample Info: HRP,A1905-17A,AOC7SSTB6578,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

48 Toluene Concentration: 15 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1886.D

Date : 30-DEC-2002 10:51

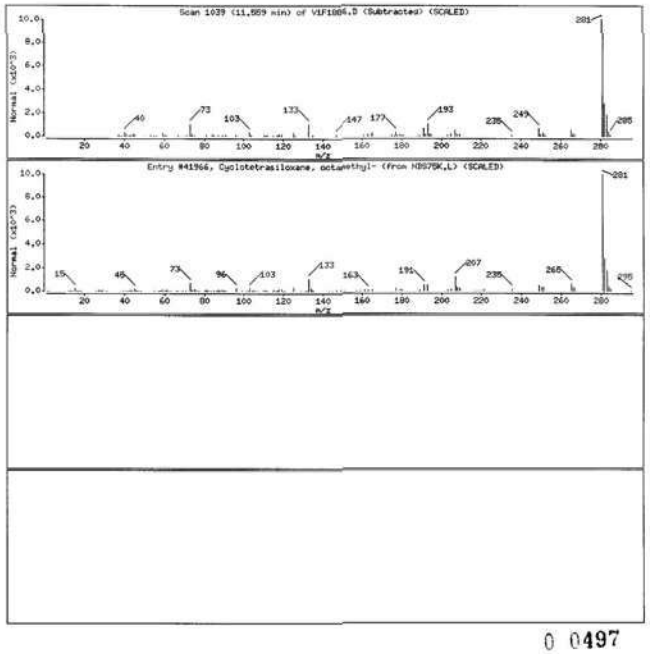
Client ID: AOC7SSTB6578 Instrument: v1.i

Sample Info: HRP,A1905-17A,AOC7SSTB6578,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS75K.L	41966	86	C8H24O4Si4	296



Data File: \\AVOGADRO\USERDATA\Organic\woa\v1.i\021230.B\V1F1886.D

Date : 30-DEC-2002 10:51

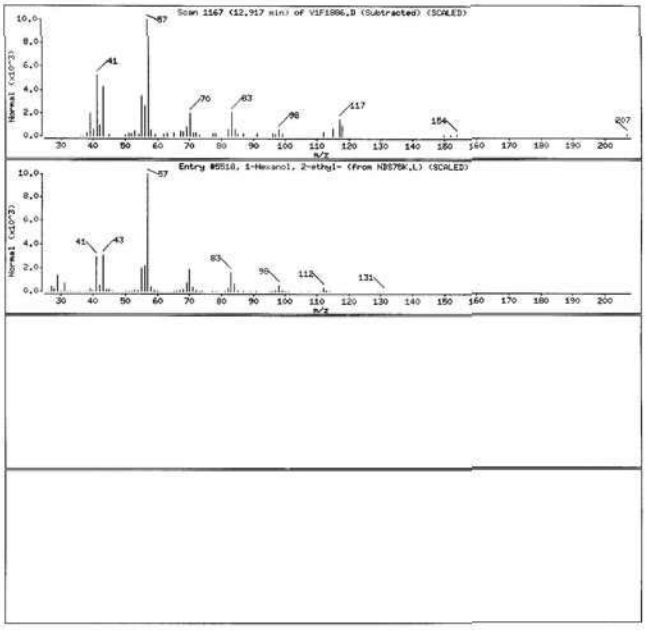
Client ID: AOC7SSTB6578 Instrument: v1.i

Sample Info: HRP,A1905-17A,AOC7SSTB6578,V1B1230A,,A1905

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Hexanol, 2-ethyl-	104-76-7	NBS75K.L	5618	64	C8H18O	130



6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: V1 Calibration Date(s): 12/30/02 12/30/02

Heated Purge: (Y/N) Y Calibration Time(s): 1020 1223

GC Column: DB-624 ID: 0.25 (mm)

LAB FILE ID: RRF5 =V1F1872 RRF20 =V1F1875
RRF50 =V1F1871 RRF100=V1F1874 RRF200=V1F1873

COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
Dichlorodifluoromethane	0.292	0.284	0.307	0.281	0.298	0.292	3.6
Chloromethane *	0.593	0.560	0.538	0.554	0.571	0.563	3.6*
Vinyl Chloride	0.408	0.419	0.417	0.418	0.438	0.420	2.6
Bromomethane	0.172	0.137	0.147	0.135	0.145	0.147	10.0
Chloroethane	0.210	0.192	0.207	0.180	0.192	0.196	6.3
Trichlorofluoromethane	0.333	0.329	0.354	0.338	0.364	0.344	4.3
1,1-Dichloroethene	0.351	0.374	0.372	0.346	0.381	0.365	4.2
Acetone	0.262	0.150	0.132	0.128	0.114	0.157	38.2
Methylene Chloride	0.515	0.494	0.410	0.447	0.422	0.458	9.9
trans-1,2-Dichloroethene	0.307	0.306	0.315	0.300	0.335	0.313	4.4
Methyl tert-butyl ether	0.469	0.448	0.497	0.445	0.461	0.464	4.5
1,1-Dichloroethane *	0.523	0.566	0.559	0.539	0.587	0.555	4.4*
2-Butanone	0.258	0.198	0.205	0.219	0.206	0.217	11.1
cis-1,2-Dichloroethene	0.311	0.323	0.318	0.309	0.350	0.322	5.1
2,2-Dichloropropane	0.305	0.308	0.314	0.283	0.306	0.303	3.9
Bromochloromethane	0.170	0.175	0.175	0.179	0.203	0.180	7.2
Chloroform	0.521	0.568	0.556	0.527	0.580	0.550	4.7
Tetrahydrofuran *	0.053	0.044	0.047	0.046	0.046	0.047	7.8*
1,1,1-Trichloroethane	0.368	0.393	0.390	0.356	0.389	0.379	4.3
1,1-Dichloropropene	0.114	0.127	0.130	0.124	0.143	0.128	8.3
Carbon Tetrachloride	0.322	0.329	0.338	0.312	0.353	0.331	4.8
1,2-Dichloroethane	0.431	0.463	0.437	0.430	0.444	0.441	3.1
Benzene	1.103	1.173	1.188	1.165	1.328	1.191	7.0
Trichloroethene	0.271	0.277	0.276	0.267	0.300	0.278	4.7
1,2-Dichloropropane	0.298	0.315	0.310	0.307	0.344	0.315	5.5
Dibromomethane	0.213	0.221	0.212	0.217	0.232	0.219	3.8
Bromodichloromethane	0.411	0.452	0.432	0.426	0.466	0.437	5.0
cis-1,3-Dichloropropene	0.478	0.523	0.515	0.511	0.574	0.520	6.7
4-Methyl-2-pentanone	0.425	0.379	0.398	0.436	0.423	0.412	5.7
Toluene	1.057	1.136	1.162	1.140	1.326	1.164	8.5
trans-1,3-Dichloropropene	0.406	0.471	0.473	0.480	0.531	0.472	9.4
1,1,2-Trichloroethane	0.246	0.269	0.258	0.268	0.293	0.267	6.5
1,3-Dichloropropane	0.650	0.694	0.686	0.681	0.716	0.685	3.5
Tetrachloroethene	0.329	0.342	0.346	0.334	0.372	0.345	4.9
2-Hexanone	0.362	0.394	0.412	0.450	0.412	0.406	7.9
Dibromochloromethane	0.424	0.475	0.458	0.463	0.480	0.460	4.8
1,2-Dibromoethane	0.378	0.409	0.408	0.408	0.424	0.405	4.1

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: V1 Calibration Date(s): 12/30/02 12/30/02

Heated Purge: (Y/N) Y Calibration Time(s): 1020 1223

GC Column: DB-624 ID: 0.25 (mm)

LAB FILE ID: RRF5 =V1F1872 RRF20 =V1F1875
RRF50 =V1F1871 RRF100=V1F1874 RRF200=V1F1873

COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
Chlorobenzene *	1.048	1.100	1.085	1.084	1.233	1.110	6.4*
1,1,1,2-Tetrachloroethane	0.364	0.394	0.379	0.372	0.404	0.383	4.3
Ethylbenzene	0.494	0.534	0.538	0.519	0.595	0.536	6.9
m,p-Xylene	0.672	0.695	0.712	0.705	0.840	0.725	9.1
o-Xylene	0.641	0.692	0.690	0.697	0.807	0.705	8.7
Xylene (Total)	0.662	0.694	0.704	0.702	0.829	0.718	8.9
Styrene	0.888	1.099	1.165	1.214	1.413	1.156	16.5
Bromoform *	0.312	0.361	0.339	0.350	0.366	0.346	6.2*
Isopropylbenzene	1.484	1.630	1.642	1.605	1.870	1.646	8.5
1,1,2,2-Tetrachloroethane *	1.122	1.280	1.016	1.051	0.995	1.093	10.5*
Bromobenzene	0.887	0.939	0.836	0.828	0.880	0.874	5.1
1,2,3-Trichloropropane	1.074	1.101	1.079	1.088	1.011	1.071	3.3
n-Propylbenzene	0.756	0.794	0.754	0.718	0.773	0.759	3.7
2-Chlorotoluene	0.741	0.768	0.697	0.665	0.712	0.717	5.5
1,3,5-Trimethylbenzene	2.479	2.572	2.472	2.439	2.651	2.523	3.5
4-Chlorotoluene	0.766	0.817	0.770	0.750	0.833	0.787	4.5
tert-Butylbenzene	2.478	2.472	2.362	2.380	2.594	2.457	3.8
1,2,4-Trimethylbenzene	2.550	2.630	2.428	2.420	2.562	2.518	3.6
sec-Butylbenzene	3.239	3.348	3.190	3.083	3.371	3.246	3.6
4-Isopropyltoluene	2.501	2.612	2.518	2.464	2.702	2.559	3.8
1,3-Dichlorobenzene	1.458	1.599	1.415	1.443	1.554	1.494	5.3
1,4-Dichlorobenzene	1.661	1.804	1.551	1.552	1.636	1.641	6.3
n-Butylbenzene	2.490	2.802	2.772	2.713	2.958	2.747	6.2
1,2-Dichlorobenzene	1.505	1.665	1.433	1.491	1.640	1.547	6.5
1,2-Dibromo-3-chloropropane	0.228	0.231	0.183	0.190	0.166	0.200	14.5
1,2,4-Trichlorobenzene	0.917	1.036	0.900	0.935	0.990	0.956	5.8
Hexachlorobutadiene	0.422	0.471	0.424	0.425	0.442	0.437	4.7
Naphthalene	2.769	2.660	1.995	2.283	2.145	2.370	14.0
1,2,3-Trichlorobenzene	0.976	1.024	0.810	0.883	0.887	0.916	9.2
1-Chlorohexane	0.618	0.582	0.602	0.617	0.696	0.623	7.0
Acrylonitrile	0.170	0.128	0.133	0.136	0.137	0.141	12.0
Dibromofluoromethane	0.274	0.280	0.271	0.250	0.313	0.278	8.2
1,2-Dichloroethane-d4	0.067	0.062	0.064	0.059	0.076	0.066	9.9
Toluene-d8	1.310	1.281	1.279	1.138	1.450	1.292	8.6
Bromofluorobenzene	0.560	0.530	0.521	0.467	0.592	0.534	8.7

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: V6 Calibration Date(s): 12/24/02 12/24/02

Heated Purge: (Y/N) N Calibration Time(s): 1515 1724

GC Column: DB-624 ID: 0.25 (mm)

LAB FILE ID: RRF5 =V6C4110 RRF20 =V6C4109
RRF50 =V6C4108 RRF100=V6C4107 RRF200=V6C4106

COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
Dichlorodifluoromethane	0.185	0.196	0.207	0.211	0.209	0.202	5.4
Chloromethane *	0.237	0.384	0.354	0.370	0.345	0.338	17.3*
Vinyl Chloride	0.317	0.342	0.331	0.343	0.340	0.335	3.3
Bromomethane	0.133	0.187	0.159	0.204	0.158	0.168	16.5
Chloroethane	0.172	0.185	0.181	0.161	0.120	0.164	16.0
Trichlorofluoromethane	0.333	0.337	0.347	0.372	0.375	0.353	5.6
1,1-Dichloroethene	0.287	0.254	0.282	0.292	0.284	0.280	5.2
Acetone	0.099	0.050	0.045	0.044	0.035	0.055	46.7
Methylene Chloride	0.299	0.273	0.261	0.278	0.262	0.275	5.7
Acrylonitrile *	0.067	0.065	0.067	0.074	0.067	0.068	4.9*
trans-1,2-Dichloroethene	0.252	0.257	0.268	0.281	0.270	0.266	4.3
Methyl tert-butyl ether	0.582	0.607	0.639	0.671	0.635	0.627	5.4
1,1-Dichloroethane *	0.430	0.443	0.448	0.473	0.434	0.446	3.8*
2-Butanone	0.084	0.076	0.078	0.084	0.077	0.080	5.0
cis-1,2-Dichloroethene	0.281	0.277	0.288	0.305	0.289	0.288	3.7
2,2-Dichloropropane	0.227	0.201	0.223	0.228	0.217	0.219	5.1
Bromochloromethane	0.130	0.129	0.134	0.142	0.135	0.134	3.6
Chloroform	0.435	0.430	0.431	0.450	0.416	0.432	2.7
Tetrahydrofuran *	0.013	0.027	0.027	0.029	0.026	0.024	26.8*
1,1,1-Trichloroethane	0.306	0.300	0.309	0.316	0.294	0.305	2.8
1,1-Dichloropropene	0.111	0.122	0.127	0.131	0.129	0.124	6.3
Carbon Tetrachloride	0.267	0.273	0.279	0.295	0.290	0.281	4.1
1,2-Dichloroethane	0.313	0.317	0.313	0.323	0.301	0.313	2.6
Benzene	1.057	1.080	1.088	1.111	1.005	1.068	3.8
Trichloroethene	0.262	0.268	0.271	0.281	0.272	0.271	2.6
1,2-Dichloropropane	0.261	0.272	0.276	0.290	0.272	0.274	3.8
Dibromomethane	0.144	0.150	0.150	0.160	0.152	0.151	3.8
Bromodichloromethane	0.320	0.330	0.329	0.352	0.331	0.332	3.6
cis-1,3-Dichloropropene	0.392	0.410	0.435	0.461	0.439	0.427	6.3
4-Methyl-2-pentanone	0.148	0.157	0.162	0.174	0.170	0.162	6.4
Toluene	1.103	1.154	1.162	1.154	1.025	1.120	5.2
trans-1,3-Dichloropropene	0.318	0.349	0.367	0.397	0.380	0.362	8.3
1,1,2-Trichloroethane	0.211	0.225	0.225	0.236	0.224	0.224	3.8
1,3-Dichloropropane	0.479	0.521	0.511	0.540	0.507	0.512	4.4
Tetrachloroethene	0.266	0.271	0.270	0.279	0.269	0.271	1.8
2-Hexanone	0.122	0.133	0.137	0.146	0.146	0.137	7.3
Dibromochloromethane	0.283	0.307	0.303	0.322	0.310	0.305	4.7

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: V6 Calibration Date(s): 12/24/02 12/24/02

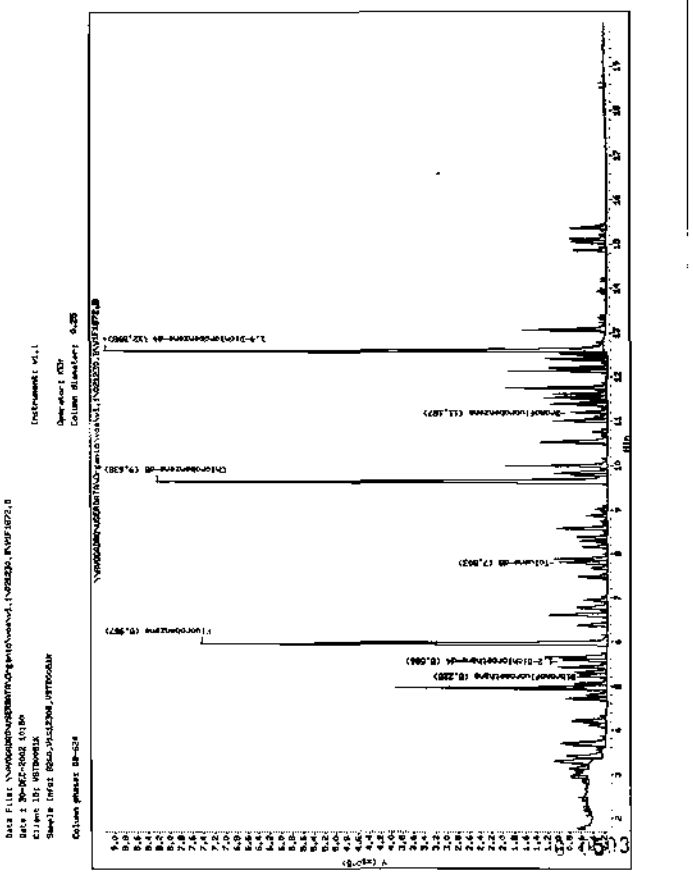
Heated Purge: (Y/N) N Calibration Time(s): 1515 1724

GC Column: DB-624 ID: 0.25 (mm)

LAB FILE ID: RRF5 =V6C4110 RRF20 =V6C4109
RRF50 =V6C4108 RRF100=V6C4107 RRF200=V6C4106

COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
1,2-Dibromoethane	0.262	0.293	0.282	0.298	0.282	0.283	4.9
Chlorobenzene *	1.014	1.050	0.998	1.002	0.921	0.997	4.7*
1,1,1,2-Tetrachloroethane	0.326	0.325	0.330	0.334	0.325	0.328	1.3
Ethylbenzene	0.496	0.561	0.552	0.551	0.539	0.540	4.8
m,p-Xylene	0.625	0.685	0.670	0.669	0.630	0.656	4.1
o-Xylene	0.593	0.662	0.667	0.687	0.673	0.656	5.6
Xylene (Total)	0.614	0.678	0.669	0.675	0.644	0.656	4.1
Styrene	0.992	1.128	1.121	1.117	1.025	1.077	5.9
Bromoform *	0.154	0.170	0.176	0.183	0.178	0.172	6.4*
Isopropylbenzene	1.374	1.555	1.548	1.491	1.330	1.460	7.0
1,1,2,2-Tetrachloroethane *	0.708	0.742	0.737	0.775	0.728	0.738	3.3*
Bromobenzene	0.753	0.804	0.802	0.828	0.796	0.797	3.4
1,2,3-Trichloropropane	0.798	0.834	0.889	0.942	0.895	0.872	6.5
n-Propylbenzene	0.848	0.943	0.960	0.982	0.974	0.941	5.8
2-Chlorotoluene	0.788	0.837	0.832	0.856	0.830	0.829	3.0
1,3,5-Trimethylbenzene	2.516	2.686	2.703	2.693	2.462	2.612	4.4
4-Chlorotoluene	0.824	0.869	0.853	0.888	0.886	0.864	3.1
tert-Butylbenzene	2.727	2.991	3.016	3.018	2.841	2.919	4.4
1,2,4-Trimethylbenzene	2.581	2.815	2.776	2.742	2.490	2.681	5.2
sec-Butylbenzene	3.285	3.571	3.549	3.414	2.979	3.360	7.2
4-Isopropyltoluene	2.640	2.906	2.861	2.828	2.548	2.757	5.6
1,3-Dichlorobenzene	1.553	1.559	1.540	1.561	1.478	1.538	2.3
1,4-Dichlorobenzene	1.655	1.580	1.554	1.552	1.449	1.558	4.7
n-Butylbenzene	2.451	2.790	2.719	2.655	2.367	2.596	6.9
1,2-Dichlorobenzene	1.482	1.504	1.442	1.458	1.388	1.455	3.0
1,2-Dibromo-3-chloropropane	0.106	0.105	0.105	0.113	0.106	0.107	3.2
1,2,4-Trichlorobenzene	0.849	0.947	0.894	0.974	0.919	0.917	5.3
Hexachlorobutadiene	0.393	0.442	0.395	0.421	0.420	0.414	5.0
Naphthalene	1.780	2.068	1.883	2.010	1.781	1.904	6.9
1,2,3-Trichlorobenzene	0.792	0.831	0.768	0.836	0.769	0.799	4.1
1-Chlorohexane	0.491	0.472	0.495	0.481	0.491	0.486	1.9
Dibromofluoromethane	0.216	0.221	0.222	0.234	0.225	0.224	2.9
1,2-Dichloroethane-d4	0.058	0.057	0.058	0.065	0.060	0.060	5.3
Toluene-d8	1.200	1.285	1.248	1.227	1.095	1.211	6.0
Bromofluorobenzene	0.427	0.445	0.441	0.453	0.439	0.441	2.2

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.



0 0503

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1872.D
Report Date: 09-Jan-2003 14:57

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1872.D
Lab Smp Id: V1S1230B Client Smp ID: VSTD0051K
Inj Date : 30-DEC-2002 10:50
Operator : KEN Inst ID: v1.i
Smp Info : 8260,V1S1230B,VSTD0051K
Misc Info : ,1,1
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v10260H.m
Meth Date : 09-Jan-2003 13:23 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 10:50 Cal File: V1F1872.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Df * S/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Df	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL.AMT (ug/L)	AMOUNTS ON-COL (ug/L)
3 Dichlorodifluoromethane	85	1.503	1.503	(0.262)	24046	5.00000	5
2 Chloromethane	50	1.662	1.672	(0.292)	28720	5.00000	5
3 Vinyl Chloride	62	1.766	1.788	(0.309)	31509	5.00000	5
4 Bromomethane	94	2.098	2.117	(0.370)	24181	5.00000	5
5 Chloroethane	64	2.223	2.223	(0.388)	19757	5.00000	5
6 Trichlorofluoromethane	101	2.446	2.455	(0.431)	27165	5.00000	5
8 1,1-Dichloroethene	96	2.534	2.554	(0.453)	24804	5.00000	5
9 Acetone	43	2.998	2.998	(0.503)	21570	5.02000	5
333 1,1,2-Trichlo-1,2,2-trifluoro	101	2.998	2.998	(0.503)	23896	5.00000	5(a)
10 Iodomethane	142	3.072	3.072	(0.516)	18360	5.00000	5
11 Carbon Disulfide	76	3.136	3.135	(0.526)	100759	5.00000	5
332 Methyl Acetate	43	3.326	3.326	(0.558)	42553	5.00000	5
34 Methylene Chloride	84	3.411	3.411	(0.573)	42329	5.00000	5
116 Acrylonitrile	53	3.566	3.555	(0.815)	70020	25.0000	20
16 trans-1,2-Dichloroethene	96	3.598	3.598	(0.604)	25328	5.00000	5

0 0504

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1872.D
Report Date: 09-Jan-2003 14:57

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL.AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 Methyl tert-butyl ether	73	3.719	3.708	(0.624)	38168	5.00000	5
18 1,1-Dichloroethane	63	4.122	4.122	(0.692)	63060	5.00000	5
19 Vinyl acetate	43	4.138	4.138	(0.695)	68791	5.00000	5
21 cis-1,2-Dichloroethene	96	4.727	4.716	(0.793)	29696	5.00000	5
22 2-Butanone	43	4.769	4.768	(0.801)	31211	5.00000	5
23 Tetrahydrofuran	72	5.058	5.034	(0.849)	4381	5.00000	5
24 2,2-Dichloropropane	77	4.716	4.716	(0.792)	29698	5.00000	5
29 Bromochloromethane	128	4.891	4.873	(0.934)	34016	5.00000	5
26 Chloroform	83	5.066	5.065	(0.850)	42829	5.00000	5
$ 30 Dibromofluoromethane	111	5.225	5.225	(0.877)	22544	5.00000	5
31 1,1,1-Trichloroethane	97	5.267	5.257	(0.882)	30247	5.00000	5
113 Cyclohexane	56	5.321	5.321	(0.893)	38075	5.00000	5
33 1,1-Dichloropropene	110	5.457	5.457	(0.913)	9166	5.00000	4(a)
32 Carbon Tetrachloride	117	5.457	5.457	(0.913)	24650	5.00000	5
$ 38 1,2-Dichloroethane-d4	102	5.594	5.586	(0.938)	5473	5.00000	5
37 Benzene	78	5.650	5.649	(0.948)	90673	5.00000	5
36 1,2-Dichloroethane	62	5.671	5.660	(0.952)	35429	5.00000	5
* 39 Fluorobenzene	96	5.957	5.957	(1.000)	821975	50.0000	
39 Trichloroethene	130	6.348	6.341	(1.071)	22268	5.00000	5
118 Methylcyclohexane	83	6.594	6.584	(1.107)	38314	5.00000	5
40 1,2-Dichloropropane	63	6.625	6.615	(1.113)	24698	5.00000	5
42 Dibromomethane	93	6.791	6.771	(1.136)	17483	5.00000	5
43 Bromodichloromethane	83	6.944	6.944	(1.166)	31629	5.00000	5
45 cis-1,3-Dichloropropene	75	7.485	7.474	(1.258)	35251	5.00000	4(a)
46 4-Methyl-2-pentanone	43	7.476	7.465	(1.256)	34904	5.00000	5
$ 47 Toluene-d8	98	7.801	7.803	(0.910)	71708	5.00000	5
48 Toluene	91	7.886	7.868	(1.326)	88872	5.00000	4(a)
49 trans-1,3-Dichloropropene	75	8.164	8.153	(1.370)	33404	5.00000	4(a)
51 1,1,2-Trichloroethane	97	8.384	8.375	(1.408)	20366	5.00000	5
53 Tetrachloroethene	164	8.577	8.577	(0.896)	18040	5.00000	5
52 1,3-Dichloropropane	76	8.588	8.588	(0.897)	35605	5.00000	5
54 2-Hexanone	43	8.749	8.715	(0.908)	19888	5.00000	4(a)
55 Dibromochloromethane	129	8.886	8.876	(0.922)	23295	5.00000	5
56 1,2-Dibromoethane	107	9.053	9.012	(0.938)	20733	5.00000	5
* 57 Chlorobenzene-d5	117	9.838	9.838	(1.000)	547858	50.0000	
115 1-Chlorohexane	91	9.870	9.870	(1.003)	55864	5.00000	5
58 Chlorobenzene	112	9.870	9.870	(1.003)	57139	5.00000	5
59 1,1,1,2-Tetrachloroethane	131	9.787	9.786	(1.014)	19926	5.00000	5
60 Ethylbenzene	106	9.860	9.839	(1.021)	27079	5.00000	5
61 m,p-Xylene	106	9.988	9.988	(1.037)	72453	10.0000	5
62 o-Xylene	106	10.518	10.518	(1.091)	75180	5.00000	4(a)
64 Styrene	104	10.548	10.529	(1.094)	40631	5.00000	4(a)
65 Bromoform	173	10.783	10.782	(1.117)	17203	5.00000	4(a)
66 Isopropylbenzene	105	11.006	10.996	(1.140)	81234	5.00000	4(a)
$ 68 Bromofluorobenzene	95	11.187	11.167	(1.161)	30846	5.00000	5
69 1,1,2,2-Tetrachloroethane	83	11.378	11.367	(0.903)	31502	5.00000	5
70 Bromobenzene	156	11.367	11.356	(0.902)	24937	5.00000	5

0 0505

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1872.D
Report Date: 09-Jan-2003 14:57

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL.AMT (ug/L)	AMOUNTS ON-COL (ug/L)
71 1,2,3-Trichloropropane	75	11.426	11.409	(0.907)	30148	5.00000	5(a) MR2 (SB) 1/9/03
72 n-Propylbenzene	120	11.526	11.526	(0.915)	21341	5.00000	5
73 2-Chlorotoluene	126	11.631	11.611	(0.922)	20803	5.00000	5
74 1,3,5-Trimethylbenzene	105	11.769	11.748	(0.933)	69616	5.00000	5
75 4-Chlorotoluene	126	11.769	11.769	(0.933)	21503	5.00000	5
76 tert-Butylbenzene	119	12.141	12.141	(0.964)	69587	5.00000	5
77 1,2,4-Trimethylbenzene	105	12.194	12.194	(0.968)	71603	5.00000	5
78 sec-Butylbenzene	105	12.467	12.467	(0.989)	90361	5.00000	5
80 1,3-Dichlorobenzene	146	12.621	12.611	(0.994)	40440	5.00000	5
79 4-Isopropyltoluene	119	12.587	12.587	(0.999)	70243	5.00000	5
* 81 1,4-Dichlorobenzene-d4	152	12.599	12.597	(1.000)	260824	50.0000	
82 1,4-Dichlorobenzene	146	12.629	12.619	(1.002)	44449	5.00000	5
83 n-Butylbenzene	91	13.066	13.056	(1.037)	69910	5.00000	4(a)
84 1,2-Dichlorobenzene	146	13.086	13.086	(1.038)	42256	5.00000	5
M 85 Xylene (Total)	106				188753	15.0000	M
86 1,2-Dibrom-3-chloropropane	75	13.931	13.933	(1.106)	6404	5.00000	5
87 1,2,4-Trichlorobenzene	180	14.557	14.546	(1.155)	25557	5.00000	5
88 Hexachlorobutadiene	225	15.049	15.048	(1.195)	31844	5.00000	4
89 Naphthalene	128	15.132	15.101	(1.200)	79768	5.00000	4
90 1,2,3-Trichlorobenzene	180	15.377	15.366	(1.221)	27438	5.00000	5

QC Flag Legend

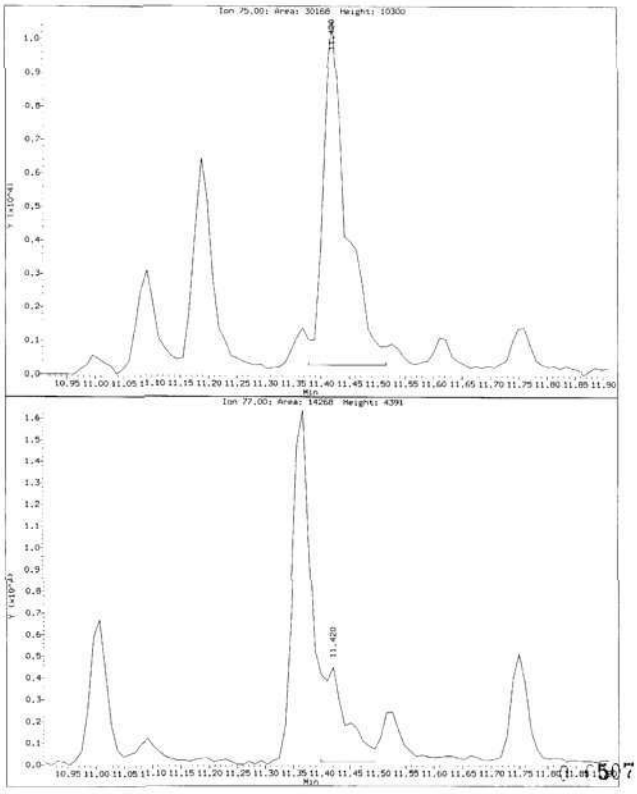
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

(SB) 1/9/03

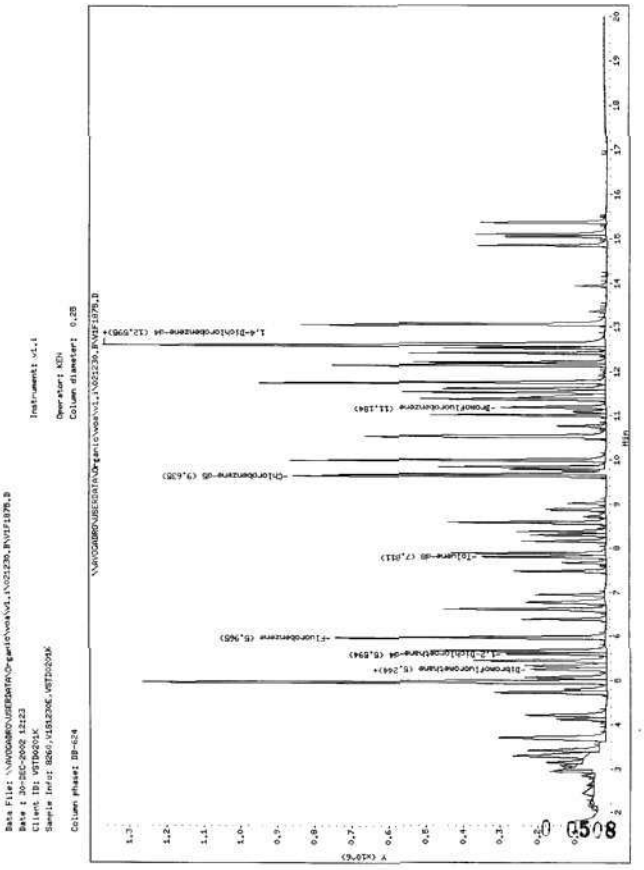
0 0506

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1872.D
Injection Date: 30-DEC-2002 10:59
Instrument: v1.i
Client Sample ID: VSTD0051K

Compound: 1,2,3-Trichloropropane
CAS Number: 96-18-4



0 0507



0 0508

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1875.D
Report Date: 09-Jan-2003 14:57

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1875.D
Lab Smp Id: V1S1230E Client Smp ID: VSTD0201K
Inj Date : 30-DEC-2002 12:23
Operator : KEN Inst ID: v1.i
Smp Info : 8260,V1S1230E,VSTD0201K
Misc Info : ,1,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 13:23 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.499	1.502	(0.251)	92669	20.0000	19
2	Chloromethane	50	1.680	1.672	(0.282)	180008	20.0000	20
3	Vinyl Chloride	62	1.786	1.788	(0.299)	136795	20.0000	20
4	Bromomethane	94	2.104	2.117	(0.353)	44834	20.0000	19
5	Chloroethane	64	2.221	2.223	(0.372)	62801	20.0000	20
6	Trichlorofluoromethane	101	2.433	2.435	(0.408)	107498	20.0000	19
8	1,1-Dichloroethene	96	2.931	2.934	(0.491)	122364	20.0000	20
9	Acetone	43	3.006	2.998	(0.504)	48991	20.0000	19
111	1,1,2-Trichlo-1,2,2-trifluoro	101	2.995	2.998	(0.502)	107851	20.0000	20
10	Iodomethane	142	3.069	3.072	(0.515)	145213	20.0000	20
11	Carbon Disulfide	76	3.144	3.135	(0.527)	371976	20.0000	20
112	Methyl Acetate	43	3.334	3.326	(0.559)	122104	20.0000	19
14	Methylene Chloride	84	3.409	3.411	(0.571)	161374	20.0000	22
116	Acrylonitrile	53	3.663	3.655	(0.614)	208797	100.000	91
16	trans-1,2-Dichloroethene	96	3.695	3.698	(0.619)	100570	20.0000	20

0 0509

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1875.D
Report Date: 09-Jan-2003 14:57

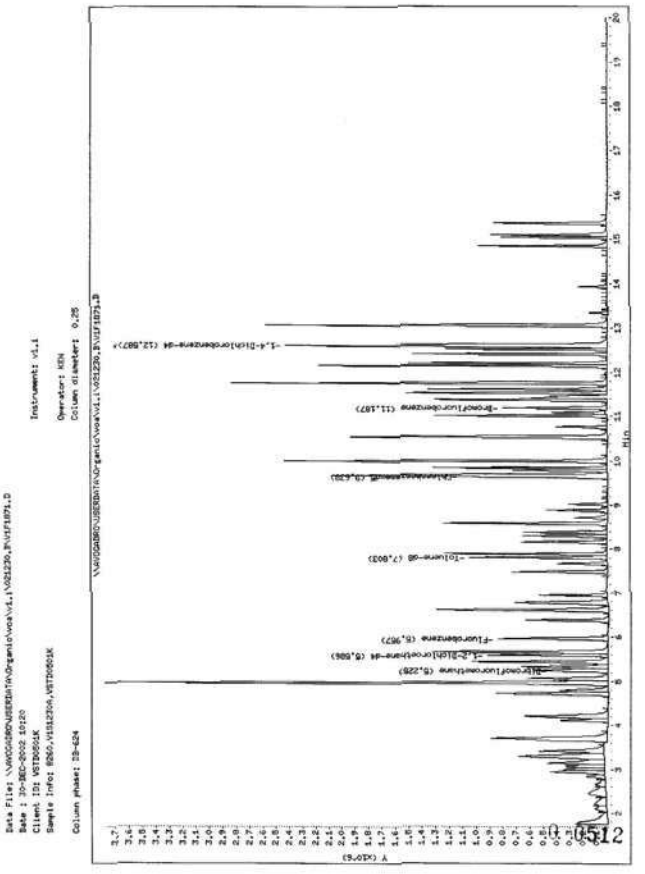
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
17	Methyl tert-butyl ether	73	3.716	3.708	(0.623)	146479	20.0000	19
18	1,1-Dichloroethane	63	4.119	4.122	(0.691)	184918	20.0000	20
19	Vinyl acetate	43	4.194	4.186	(0.703)	344660	10.0000	18
23	cis-1,2-Dichloroethene	96	4.724	4.716	(0.792)	105539	20.0000	20
22	2-Butanone	43	4.756	4.748	(0.797)	64540	20.0000	18
29	Tetrahydrofuran	72	5.042	5.034	(0.845)	14269	20.0000	18
24	2,2-Dichloropropane	77	4.724	4.716	(0.792)	100797	20.0000	20
27	Bromochloromethane	128	4.968	4.971	(0.833)	57183	20.0000	19
28	Chloroform	83	5.064	5.055	(0.849)	185566	20.0000	21
S 30	Dibromofluoromethane	113	5.233	5.225	(0.877)	91525	20.0000	20
31	1,1,1-Trichloroethane	97	5.255	5.257	(0.881)	128315	20.0000	21
113	Cyclohexane	56	5.318	5.321	(0.892)	153709	20.0000	20
32	1,1-Dichloropropene	110	5.435	5.437	(0.911)	41657	20.0000	20
33	Carbon Tetrachloride	117	5.435	5.437	(0.911)	107443	20.0000	20
S 35	1,2-Dichloroethane-d4	102	5.583	5.586	(0.936)	20187	20.0000	19
37	Benzene	78	5.657	5.645	(0.948)	383305	20.0000	20
36	1,2-Dichloroethane	62	5.668	5.660	(0.950)	151313	20.0000	21
* 38	Fluorobenzene	96	5.965	5.957	(1.000)	816859	50.0000	
39	Trichloroethene	130	6.379	6.381	(1.069)	90659	20.0000	20
114	Methylcyclohexane	83	6.602	6.604	(1.107)	145047	20.0000	19
40	1,2-Dichloropropane	63	6.623	6.615	(1.110)	102976	20.0000	20
42	Dibromomethane	93	6.750	6.753	(1.132)	72271	20.0000	20
43	Bromodichloromethane	83	6.941	6.944	(1.164)	147635	20.0000	21
45	cis-1,3-Dichloropropene	75	7.482	7.474	(1.254)	170958	20.0000	20
46	4-Methyl-2-pentanone	43	7.673	7.665	(1.286)	123709	20.0000	18
S 47	Toluene-d8	98	7.811	7.803	(0.811)	286435	20.0000	20
48	Toluene	91	7.895	7.888	(1.322)	371351	20.0000	20
49	trans-1,3-Dichloropropene	75	8.163	8.153	(1.368)	153966	20.0000	20
51	1,1,2-Trichloroethane	97	8.384	8.376	(1.405)	88067	20.0000	20
53	Tetrachloroethene	164	8.575	8.577	(0.890)	76411	20.0000	20
52	1,3-Dichloropropane	76	8.596	8.588	(0.892)	155262	20.0000	20
54	2-Hexanone	43	8.723	8.715	(0.905)	88146	20.0000	19
55	Dibromochloromethane	129	8.882	8.874	(0.922)	106197	20.0000	21
56	1,2-Dibromoethane	107	9.020	9.012	(0.936)	91540	20.0000	20
* 57	Chlorobenzene-d5	117	9.635	9.628	(1.000)	558988	50.0000	
115	1-Chlorohexane	91	9.667	9.670	(1.003)	130183	20.0000	19
58	Chlorobenzene	112	9.678	9.670	(1.004)	245881	20.0000	20
59	1,1,1,2-Tetrachloroethane	131	9.784	9.786	(1.015)	88140	20.0000	21
60	Ethylbenzene	106	9.837	9.829	(1.021)	119462	20.0000	20
61	m,p-Xylene	106	9.996	9.999	(1.037)	310816	40.0000	38
63	o-Xylene	106	10.516	10.518	(1.091)	154806	20.0000	20
64	Styrene	104	10.537	10.529	(1.094)	245762	20.0000	19
65	Bromoform	173	10.760	10.752	(1.117)	80767	20.0000	21
66	Isopropylbenzene	105	11.004	10.996	(1.142)	364446	20.0000	20
S 68	Bromofluorobenzene	95	11.184	11.187	(1.161)	118534	20.0000	20
69	1,1,2,2-Tetrachloroethane	83	11.375	11.367	(0.903)	157164	20.0000	23
70	Bromobenzene	156	11.366	11.354	(0.902)	115285	20.0000	21

0 0510

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1875.D
Report Date: 09-Jan-2003 14:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	71 1,2,3-Trichloropropane	75	11.417	11.409	(0.907)	135250	20.0000	25
	72 n-Propylbenzene	120	11.524	11.526	(0.915)	97505	20.0000	21
	73 2-Chlorotoluene	126	11.619	11.611	(0.923)	94328	20.0000	21
	74 1,3,5-Trimethylbenzene	105	11.746	11.749	(0.933)	315563	20.0000	20
	75 4-Chlorotoluene	126	11.757	11.749	(0.933)	100339	20.0000	21
	76 tert-Butylbenzene	119	12.129	12.141	(0.964)	303631	20.0000	20
	77 1,2,4-Trimethylbenzene	105	12.202	12.194	(0.969)	323013	20.0000	21
	78 sec-Butylbenzene	105	12.404	12.407	(0.985)	411247	20.0000	21
	80 1,3-Dichlorobenzene	146	12.521	12.513	(0.994)	196350	20.0000	21
	79 4-Isopropyltoluene	119	12.584	12.587	(0.999)	320857	20.0000	20
*	81 1,4-Dichlorobenzene-d4	152	12.595	12.597	(1.000)	307047	50.0000	
	82 1,4-Dichlorobenzene	146	12.627	12.619	(1.003)	221577	20.0000	22
	83 n-Butylbenzene	91	13.062	13.054	(1.037)	344205	20.0000	20
	84 1,2-Dichlorobenzene	146	13.051	13.054	(1.036)	204447	20.0000	22
M	63 Xylene (Total)	106				465625	60.0000	58
	86 1,2-Dibromo-3-chloropropane	75	13.932	13.923	(1.106)	28371	20.0000	23
	87 1,2,4-Trichlorobenzene	180	14.854	14.846	(1.179)	127182	20.0000	22
	88 Hexachlorobutadiene	225	15.056	15.048	(1.196)	97831	20.0000	22
	89 Naphthalene	128	15.109	15.101	(1.200)	326763	20.0000	22
	90 1,2,3-Trichlorobenzene	180	15.374	15.366	(1.221)	125627	20.0000	22

(36) 1/9/03



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1871.D
Report Date: 09-Jan-2003 14:57

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1871.D
Lab Smp Id: V1S1230A Client Smp ID: VSTD0501K
Inj Date : 30-DEC-2002 10:20
Operator : KEN Inst ID: v1.i
Smp Info : 8260,V1S1230A,VSTD0501K
Misc Info : ,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 13:23 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 10:20 Cal File: V1F1871.D
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	1 Dichlorodifluoromethane	85	1.502	1.502	(0.252)	288184	50.0000	50
	2 Chloromethane	50	1.672	1.672	(0.281)	505450	50.0000	50
	3 Vinyl Chloride	62	1.788	1.788	(0.300)	391708	50.0000	50
	4 Bromomethane	94	2.117	2.117	(0.355)	138550	50.0000	50
	5 Chloroethane	64	2.223	2.223	(0.373)	194723	50.0000	50
	6 Trichlorofluoromethane	101	2.435	2.435	(0.409)	332702	50.0000	50
	8 1,1-Dichloroethene	96	2.934	2.934	(0.493)	349989	50.0000	50
	9 Acetone	43	2.998	2.998	(0.503)	124153	50.0000	50
	111 1,1,2-Trichlo-1,2,2-trifluoro	101	2.998	2.998	(0.503)	317375	50.0000	50
	10 Iodomethane	142	3.072	3.072	(0.516)	430671	50.0000	50
	11 Carbon Disulfide	76	3.135	3.135	(0.526)	1070625	50.0000	50
	112 Methyl Acetate	43	3.326	3.326	(0.558)	330910	50.0000	50
	14 Methylene Chloride	84	3.411	3.411	(0.573)	385316	50.0000	50
	116 Acrylonitrile	53	3.655	3.655	(0.614)	626138	250.000	250
	16 trans-1,2-Dichloroethene	96	3.698	3.698	(0.621)	295777	50.0000	50

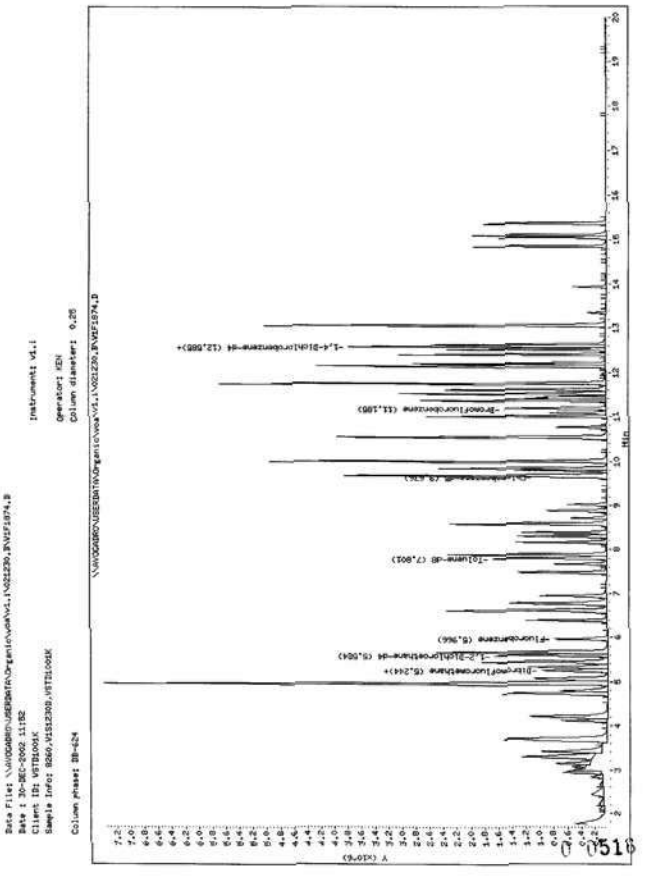
Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1871.D
Report Date: 09-Jan-2003 14:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	17 Methyl tert-butyl ether	73	3.708	3.708	(0.622)	466780	50.0000	50
	18 1,1-Dichloroethane	63	4.122	4.122	(0.692)	525641	50.0000	50
	19 Vinyl acetate	43	4.186	4.186	(0.703)	746869	50.0000	50
	23 cis-1,2-Dichloroethene	96	4.716	4.716	(0.792)	298723	50.0000	50
	22 2-Butanone	43	4.748	4.748	(0.797)	193043	50.0000	50
	29 Tetrahydrofuran	72	5.034	5.034	(0.845)	44082	50.0000	50
	24 2,2-Dichloropropane	77	4.716	4.716	(0.792)	295239	50.0000	50
	27 Bromochloromethane	128	4.971	4.971	(0.834)	164489	50.0000	50
	28 Chloroform	83	5.055	5.055	(0.849)	522654	50.0000	50
S	30 Dibromofluoromethane	113	5.225	5.225	(0.877)	254982	50.0000	50
	31 1,1,1-Trichloroethane	97	5.257	5.257	(0.882)	346613	50.0000	50
	113 Cyclohexane	56	5.321	5.321	(0.893)	453223	50.0000	50
	32 1,1-Dichloropropene	110	5.437	5.437	(0.913)	122173	50.0000	50
	33 Carbon Tetrachloride	117	5.437	5.437	(0.913)	318120	50.0000	50
S	35 1,2-Dichloroethane-d4	102	5.586	5.586	(0.938)	60257	50.0000	50
	37 Benzene	78	5.649	5.649	(0.948)	1116125	50.0000	50
	36 1,2-Dichloroethane	62	5.660	5.660	(0.950)	410946	50.0000	50
*	38 Fluorobenzene	96	5.957	5.957	(1.000)	939688	50.0000	
	39 Trichloroethene	130	6.381	6.381	(1.071)	259734	50.0000	50
	114 Methylcyclohexane	83	6.604	6.604	(1.109)	439604	50.0000	50
	40 1,2-Dichloropropane	63	6.615	6.615	(1.110)	291488	50.0000	50
	42 Dibromomethane	93	6.753	6.753	(1.134)	198850	50.0000	50
	43 Bromodichloromethane	83	6.944	6.944	(1.166)	405782	50.0000	50
	45 cis-1,3-Dichloropropene	75	7.474	7.474	(1.255)	484163	50.0000	50
	46 4-Methyl-2-pentanone	43	7.665	7.665	(1.287)	373634	50.0000	50
S	47 Toluene-d8	98	7.803	7.803	(1.310)	819140	50.0000	50
	48 Toluene	91	7.888	7.888	(1.324)	1091790	50.0000	50
	49 trans-1,3-Dichloropropene	75	8.153	8.153	(1.369)	444797	50.0000	50
	51 1,1,2-Trichloroethane	97	8.376	8.376	(1.406)	242168	50.0000	50
	53 Tetrachloroethene	164	8.577	8.577	(1.890)	221519	50.0000	50
	52 1,3-Dichloropropane	76	8.588	8.588	(0.891)	439624	50.0000	50
	54 2-Hexanone	43	8.715	8.715	(0.904)	263743	50.0000	50
	55 Dibromochloromethane	129	8.874	8.874	(0.921)	293052	50.0000	50
	56 1,2-Dibromoethane	107	9.012	9.012	(0.935)	284187	50.0000	50
*	57 Chlorobenzene-d5	117	9.638	9.638	(1.000)	640526	50.0000	
	115 1-Chlorohexane	91	9.670	9.670	(1.003)	385647	50.0000	50
	58 Chlorobenzene	112	9.670	9.670	(1.003)	695037	50.0000	50
	59 1,1,1,2-Tetrachloroethane	131	9.786	9.786	(1.015)	243002	50.0000	50
	60 Ethylbenzene	106	9.829	9.829	(1.020)	344590	50.0000	50
	61 m,p-Xylene	106	9.999	9.999	(1.037)	911529	100.000	100
	62 o-Xylene	106	10.518	10.518	(1.091)	441808	50.0000	50
	64 Styrene	104	10.529	10.529	(1.092)	746111	50.0000	50
	65 Bromoform	173	10.752	10.752	(1.116)	217402	50.0000	50
	66 Isopropylbenzene	105	10.996	10.996	(1.141)	1052085	50.0000	50
S	68 Bromofluorobenzene	95	11.187	11.187	(1.161)	333962	50.0000	50
	69 1,1,2,2-Tetrachloroethane	83	11.367	11.367	(0.902)	379584	50.0000	50
	70 Bromobenzene	156	11.356	11.356	(0.901)	312243	50.0000	50

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1871.D
Report Date: 09-Jan-2003 14:57

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
71 1,2,3-Trichloropropane	75	11.409	11.409	(0.906)	403028	50.0000	50
72 n-Propylbenzene	120	11.526	11.526	(0.915)	282743	50.0000	50
73 2-Chlorotoluene	126	11.611	11.611	(0.922)	266421	50.0000	50
74 1,3,5-Trimethylbenzene	105	11.749	11.749	(0.933)	923195	50.0000	50
75 4-Chlorotoluene	126	11.749	11.749	(0.933)	287616	50.0000	50
76 tert-Butylbenzene	119	12.141	12.141	(0.964)	882032	50.0000	50
77 1,2,4-Trimethylbenzene	105	12.194	12.194	(0.968)	904801	50.0000	50
78 sec-Butylbenzene	105	12.407	12.407	(0.985)	1191331	50.0000	50
80 1,3-Dichlorobenzene	146	12.513	12.513	(0.993)	528270	50.0000	50
79 4-Isopropyltoluene	119	12.587	12.587	(0.999)	940336	50.0000	50
* 81 1,4-Dichlorobenzene-d4	152	12.597	12.597	(1.000)	373393	50.0000	
82 1,4-Dichlorobenzene	146	12.619	12.619	(1.002)	579258	50.0000	50
83 n-Butylbenzene	91	13.054	13.054	(1.036)	1035220	50.0000	50
84 1,2-Dichlorobenzene	146	13.054	13.054	(1.036)	535181	50.0000	50
M 63 Xylene (Total)	106				1353337	150.000	150
86 1,2-Dibromo-3-chloropropane	75	13.923	13.923	(1.105)	68217	50.0000	50
87 1,2,4-Trichlorobenzene	180	14.846	14.846	(1.179)	336203	50.0000	50
88 Hexachlorobutadiene	225	15.048	15.048	(1.195)	158389	50.0000	50
89 Naphthalene	128	15.101	15.101	(1.199)	744974	50.0000	50
90 1,2,3-Trichlorobenzene	180	15.366	15.366	(1.220)	302264	50.0000	50

SB 1/9/03



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1874.D
Report Date: 09-Jan-2003 14:57

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1874.D
Lab Smp Id: V1S1230D Client Smp ID: VSTD1001K
Inj Date : 30-DEC-2002 11:52
Operator : KEN Inst ID: v1.i
Smp Info : 8260,V1S1230D,VSTD1001K
Misc Info : ,1,4
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 13:23 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 11:52 Cal File: V1F1874.D
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.500	1.502	(0.251)	494515	100.000	95
2 Chloromethane	50	1.680	1.672	(0.282)	974807	100.000	98
3 Vinyl Chloride	62	1.786	1.788	(0.299)	733906	100.000	99
4 Bromomethane	94	2.105	2.117	(0.353)	236861	100.000	90
5 Chloroethane	64	2.221	2.223	(0.372)	316762	100.000	91
6 Trichlorofluoromethane	101	2.434	2.435	(0.408)	594384	100.000	97
8 1,1-Dichloroethene	96	2.932	2.934	(0.491)	609248	100.000	96
9 Acetone	43	2.996	2.998	(0.502)	225657	100.000	80
111 1,1,2-Trichlo-1,2,2-trifluoro	101	2.996	2.998	(0.502)	555641	100.000	99
10 Iodomethane	142	3.070	3.072	(0.515)	771578	100.000	98
11 Carbon Disulfide	76	3.144	3.155	(0.527)	1512654	100.000	94
112 Methyl Acetate	43	3.335	3.326	(0.559)	657888	100.000	94
14 Methylene Chloride	84	3.420	3.411	(0.573)	785386	100.000	100
116 Acrylonitrile	53	3.664	3.655	(0.614)	1191085	500.000	470
16 trans-1,2-Dichloroethene	96	3.696	3.698	(0.619)	527098	100.000	95

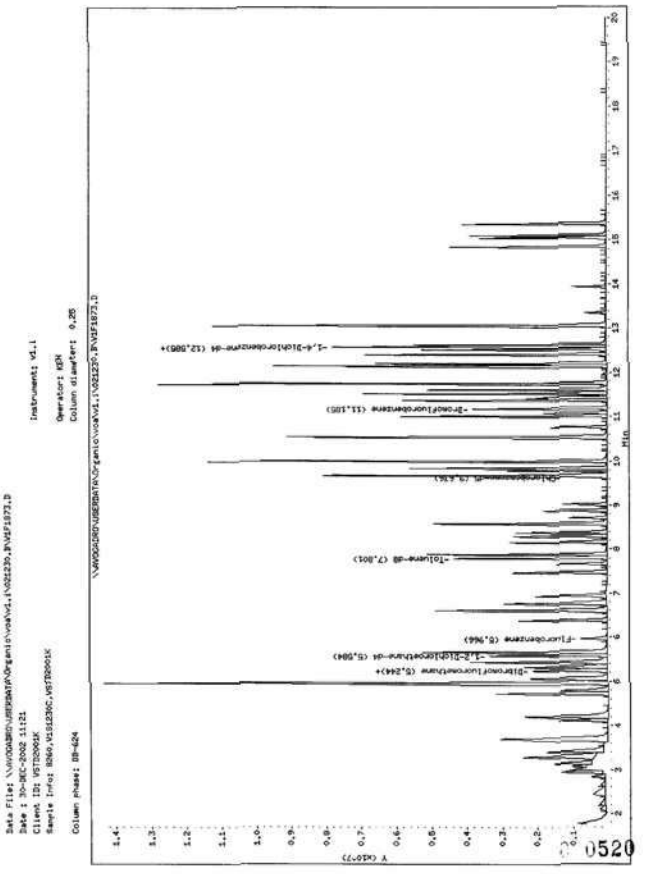
Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1874.D
Report Date: 09-Jan-2003 14:57

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
17 Methyl tert-butyl ether	73	3.717	3.708	(0.623)	781998	100.000	95
18 1,1-Dichloroethane	63	4.120	4.122	(0.691)	947158	100.000	98
19 Vinyl acetate	43	4.184	4.186	(0.701)	1464719	100.000	100
23 cis-1,2-Dichloroethene	96	4.725	4.716	(0.792)	543434	100.000	96
22 2-Butanone	43	4.746	4.748	(0.796)	384672	100.000	98
29 Tetrahydrofuran	72	5.043	5.034	(0.845)	80881	100.000	96
24 2,2-Dichloropropane	77	4.714	4.716	(0.790)	498000	100.000	94
27 Bromochloromethane	128	4.969	4.971	(0.833)	314960	100.000	98
28 Chloroform	83	5.064	5.055	(0.849)	926397	100.000	96
$ 30 Dibromofluoromethane	113	5.234	5.225	(0.877)	439136	100.000	90
31 1,1,1-Trichloroethane	97	5.255	5.257	(0.881)	626255	100.000	96
113 Cyclohexane	56	5.319	5.321	(0.892)	830597	100.000	98
32 1,1-Dichloropropene	110	5.435	5.437	(0.911)	218878	100.000	97
33 Carbon Tetrachloride	117	5.435	5.437	(0.911)	548102	100.000	94
$ 35 1,2-Dichloroethane-d4	102	5.584	5.586	(0.936)	103117	100.000	88
37 Benzene	78	5.658	5.643	(0.948)	2548035	100.000	97
36 1,2-Dichloroethane	62	5.669	5.660	(0.950)	756380	100.000	99
* 38 Fluorobenzene	96	5.966	5.957	(1.000)	878836	50.0000	
39 Trichloroethene	130	6.380	6.381	(1.069)	468921	100.000	96
114 Methylcyclohexane	83	6.602	6.604	(1.107)	820348	100.000	99
40 1,2-Dichloropropane	63	6.623	6.615	(1.110)	539739	100.000	98
42 Dibromomethane	93	6.751	6.753	(1.132)	381094	100.000	99
43 Bromodichloromethane	83	6.942	6.944	(1.164)	748278	100.000	98
45 cis-1,3-Dichloropropene	75	7.483	7.474	(1.254)	897531	100.000	98
46 4-Methyl-2-pentanone	43	7.674	7.665	(1.286)	766337	100.000	100
$ 47 Toluene-d8	98	7.801	7.803	(0.810)	1407338	100.000	88
48 Toluene	91	7.886	7.888	(1.322)	1004056	100.000	97
49 trans-1,3-Dichloropropene	75	8.162	8.153	(1.368)	843038	100.000	100
51 1,1,2-Trichloroethane	97	8.384	8.376	(1.405)	470889	100.000	100
53 Tetrachloroethene	164	8.575	8.577	(0.890)	412579	100.000	97
52 1,3-Dichloropropane	76	8.588	8.588	(0.891)	841769	100.000	100
54 2-Hexanone	43	8.713	8.715	(0.904)	556262	100.000	110
55 Dibromochloromethane	129	8.883	8.874	(0.922)	573004	100.000	100
56 1,2-Dibromoethane	107	9.021	9.012	(0.936)	504072	100.000	100
* 57 Chlorobenzene-d5	117	9.636	9.638	(1.000)	638216	50.0000	
115 1-Chlorohexane	91	9.668	9.670	(1.003)	763260	100.000	97
58 Chlorobenzene	112	9.678	9.670	(1.004)	1339691	100.000	97
59 1,1,1,2-Tetrachloroethane	131	9.785	9.786	(1.015)	460051	100.000	98
60 Ethylbenzene	106	9.838	9.829	(1.021)	642307	100.000	97
61 m,p-Xylene	106	9.997	9.999	(1.037)	1743277	200.000	190
62 o-Xylene	106	10.518	10.518	(1.091)	861429	100.000	98
64 Styrene	104	10.538	10.529	(1.094)	1501257	100.000	100
65 Bromoform	173	10.750	10.752	(1.116)	432342	100.000	100
66 Isopropylbenzene	105	11.004	10.996	(1.142)	1984691	100.000	97
$ 68 Bromofluorobenzene	95	11.185	11.187	(1.161)	577952	100.000	87
69 1,1,2,2-Tetrachloroethane	83	11.376	11.367	(0.903)	789496	100.000	100
70 Bromobenzene	156	11.365	11.356	(0.902)	622185	100.000	96

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1874.D
Report Date: 09-Jan-2003 14:57

Compound#	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
71 1,2,3-Trichloropropane	75	11.418	11.409	(0.907)	817783	100.000	130
72 n-Propylbenzene	120	11.524	11.526	(0.958)	539184	100.000	96
73 2-Chlorotoluene	126	11.620	11.611	(0.923)	499910	100.000	94
74 1,3,5-Trimethylbenzene	105	11.747	11.749	(0.933)	1832510	100.000	97
75 4-Chlorotoluene	126	11.747	11.749	(0.933)	563866	100.000	96
76 tert-Butylbenzene	119	12.139	12.141	(0.964)	1788270	100.000	97
77 1,2,4-Trimethylbenzene	105	12.203	12.194	(0.969)	1818531	100.000	97
78 sec-Butylbenzene	105	12.405	12.407	(0.985)	2316228	100.000	96
80 1,3-Dichlorobenzene	146	12.521	12.513	(0.994)	1084414	100.000	98
79 4-Isopropyltoluene	119	12.585	12.587	(0.999)	1851146	100.000	97
* 81 1,4-Dichlorobenzene-d4	152	12.596	12.597	(1.000)	375681	50.0000	
82 1,4-Dichlorobenzene	146	12.627	12.619	(1.003)	1166543	100.000	97
83 n-Butylbenzene	91	13.062	13.054	(1.037)	2038634	100.000	99
84 1,2-Dichlorobenzene	146	13.052	13.054	(1.036)	1120409	100.000	98
M 63 Xylene (Total)	106				2604707	300.000	290
86 1,2-Dibromo-3-chloropropane	75	13.932	13.923	(1.106)	142744	100.000	99
87 1,2,4-Trichlorobenzene	180	14.655	14.646	(1.179)	702650	100.000	100
88 Hexachlorobutadiene	225	15.057	15.048	(1.195)	319272	100.000	99
89 Naphthalene	128	15.110	15.101	(1.200)	1715583	100.000	99
90 1,2,3-Trichlorobenzene	180	15.373	15.366	(1.221)	663643	100.000	99

SB 1/9/03



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1873.D
Report Date: 09-Jan-2003 14:57

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1873.D
Lab Smp Id: V1S1230C Client Smp ID: VSTD2001K
Inj Date : 30-DEC-2002 11:21
Operator : KEN Inst ID: v1.i
Smp Info : 8260,V1S1230C,VSTD2001K
Misc Info : ,1,5
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 13:23 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 11:21 Cal File: V1F1873.D
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

Compound#	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.500	1.502	(0.261)	996456	200.000	200
2 Chloromethane	50	1.680	1.672	(0.292)	1906431	200.000	200(A)
3 Vinyl Chloride	62	1.786	1.788	(0.299)	1461742	200.000	210(A)
4 Bromomethane	94	2.104	2.117	(0.363)	483429	200.000	190
5 Chloroethane	64	2.221	2.223	(0.372)	641997	200.000	190
6 Trichlorofluoromethane	101	2.433	2.435	(0.409)	1215814	200.000	210(A)
8 1,1-Dichloroethene	96	2.932	2.934	(0.491)	1270812	200.000	210(A)
9 Acetone	43	2.996	2.998	(0.502)	381471	200.000	130
111 1,1,2-Trichlo-1,2,2-trifluoro	101	2.996	2.998	(0.502)	1124027	200.000	210(A)
10 Iodomethane	142	3.070	3.072	(0.515)	1584854	200.000	210(A)
11 Carbon Disulfide	76	3.144	3.135	(0.527)	3747747	200.000	190
112 Methyl Acetate	43	3.335	3.326	(0.559)	1168498	200.000	170
14 Methylene Chloride	84	3.409	3.411	(0.571)	1410514	200.000	190
116 Acrylonitrile	53	3.664	3.655	(0.614)	2290016	1000.00	930
16 trans-1,2-Dichloroethene	96	3.696	3.688	(0.619)	1118983	200.000	210(A)

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1873.D
Report Date: 09-Jan-2003 14:57

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
17 Methyl tert-butyl ether	73	3.717	3.708	(0.623)	1537647	200.000	190
18 1,1-Dichloroethane	63	4.120	4.122	(0.691)	1958192	200.000	210(A)
19 Vinyl acetate	43	4.184	4.186	(0.701)	2839687	200.000	210(A)
23 cis-1,2-Dichloroethene	96	4.725	4.716	(0.792)	1167845	200.000	210(A)
22 2-Butanone	43	4.746	4.748	(0.796)	888657	200.000	180
29 Tetrahydrofuran	72	5.032	5.034	(0.844)	154464	200.000	190
24 2,2-Dichloropropane	77	4.714	4.716	(0.790)	1021748	200.000	200
27 Bromochloromethane	128	4.969	4.971	(0.833)	678141	200.000	220(A)
28 Chloroform	83	5.064	5.055	(0.849)	1936151	200.000	210(A)
S 30 Dibromofluoromethane	113	5.234	5.225	(0.877)	1045240	200.000	220(A)
31 1,1,1-Trichloroethane	97	5.255	5.257	(0.881)	1297824	200.000	200
113 Cyclohexane	56	5.319	5.321	(0.892)	1680947	200.000	210(A)
32 1,1-Dichloropropene	110	5.436	5.437	(0.911)	478098	200.000	220(A)
33 Carbon Tetrachloride	117	5.435	5.437	(0.911)	1179095	200.000	210(A)
S 35 1,2-Dichloroethane-d4	102	5.586	5.586	(0.936)	252780	200.000	220(A)
37 Benzene	78	5.658	5.649	(0.948)	4431926	200.000	220(A)
36 1,2-Dichloroethane	62	5.669	5.660	(0.950)	1482432	200.000	200(A)
* 38 Fluorobenzene	96	5.966	5.957	(1.000)	834490	50.0000	
39 Trichloroethene	130	6.379	6.381	(1.069)	1003115	200.000	210(A)
114 Methylcyclohexane	83	6.602	6.604	(1.107)	1733819	200.000	220(A)
40 1,2-Dichloropropane	63	6.623	6.615	(1.110)	1148110	200.000	220(A)
42 Dibromomethane	93	6.751	6.753	(1.132)	774810	200.000	210(A)
43 Bromodichloromethane	83	6.942	6.944	(1.164)	1556477	200.000	210(A)
45 cis-1,3-Dichloropropene	75	7.483	7.474	(1.254)	1914409	200.000	220(A)
46 4-Methyl-2-pentanone	43	7.661	7.665	(1.284)	1412515	200.000	200(A)
S 47 Toluene-d8	98	7.801	7.803	(0.810)	3576696	200.000	220(A)
48 Toluene	91	7.886	7.888	(1.322)	4427956	200.000	220(A)
49 trans-1,3-Dichloropropene	75	8.162	8.153	(1.368)	1771695	200.000	220(A)
51 1,1,2-Trichloroethane	97	8.384	8.376	(1.405)	979660	200.000	220(A)
53 Tetrachloroethene	164	8.575	8.577	(0.890)	918151	200.000	210(A)
52 1,3-Dichloropropane	76	8.586	8.588	(0.891)	1765432	200.000	210(A)
54 2-Hexanone	43	8.713	8.715	(0.904)	1015054	200.000	210(A)
55 Dibromochloromethane	129	8.883	8.874	(0.922)	1183857	200.000	210(A)
56 1,2-Dibromoethane	107	9.021	9.012	(0.936)	1045697	200.000	210(A)
* 57 Chlorobenzene-d5	117	9.636	9.638	(1.000)	616531	50.0000	
115 1-Chlorohexane	91	9.668	9.670	(1.003)	1717052	200.000	220(A)
58 Chlorobenzene	112	9.678	9.670	(1.004)	3039872	200.000	220(A)
59 1,1,1,2-Tetrachloroethane	131	9.784	9.786	(1.015)	996633	200.000	210(A)
60 Ethylbenzene	106	9.838	9.829	(1.021)	1468352	200.000	220(A)
61 m,p-Xylene	106	9.997	9.999	(1.037)	4141511	400.000	430(A)
62 o-Xylene	106	10.516	10.518	(1.091)	1989528	200.000	230(A)
64 Styrene	104	10.538	10.529	(1.094)	3485018	200.000	240(A)
65 Bromoform	173	10.750	10.752	(1.116)	903782	200.000	220(A)
66 Isopropylbenzene	105	11.004	10.996	(1.142)	6812552	200.000	220(A)
S 68 Bromofluorobenzene	95	11.185	11.187	(1.161)	1459046	200.000	210(A)
69 1,1,2,2-Tetrachloroethane	83	11.376	11.367	(0.903)	1602057	200.000	190
70 Bromobenzene	156	11.365	11.364	(0.902)	1416517	200.000	200(A)

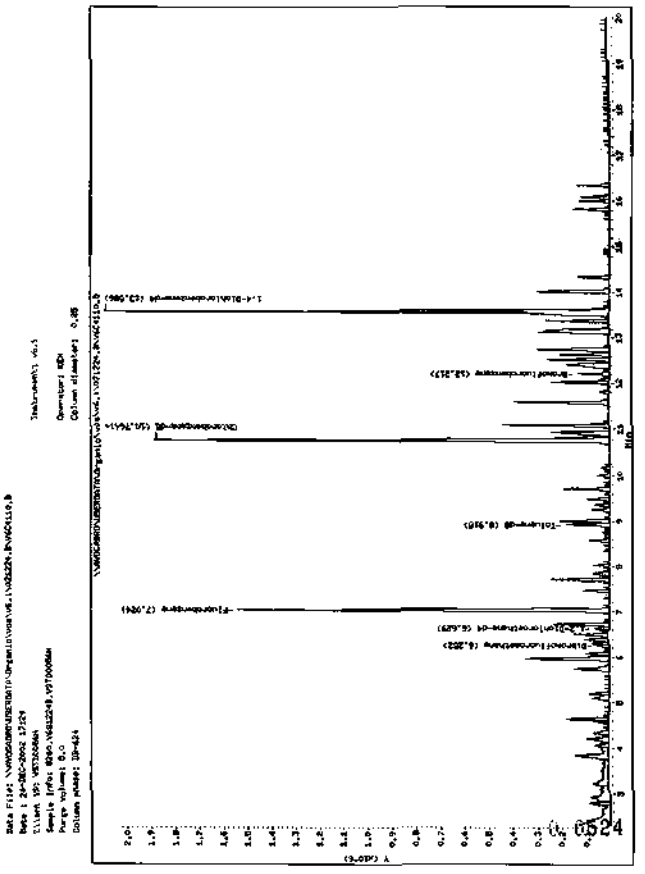
Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1P1873.D
Report Date: 09-Jan-2003 14:57

Compounds	QUANT RIO MASS	RT	REF RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	QM-COL (ug/L)
73 1,2,3-Trichloropropane	75	11.416	11.405	(0.907)	1627831	200.000	270(A)
74 n-Propylbenzene	120	11.524	11.526	(0.965)	1244482	200.000	280(A)
75 2-Chlorotoluene	126	11.620	11.613	(0.903)	1146252	200.000	200
76 1,3,5-Trimethylbenzene	105	11.747	11.749	(0.932)	4868958	200.000	310(A)
77 4-Chlorotoluene	126	11.747	11.749	(0.932)	1360799	200.000	270(A)
78 tert-Butylbenzene	119	12.138	12.142	(0.962)	4174871	200.000	260(A)
79 1,2,4-Trimethylbenzene	105	12.203	12.196	(0.966)	4134378	200.000	290(A)
80 sec-Butylbenzene	105	12.406	12.402	(0.982)	5626667	200.000	310(A)
81 1,3-Dichlorobenzene	146	12.521	12.537	(0.974)	3501851	200.000	260(A)
82 4-Isopropyltoluene	119	12.585	12.580	(0.959)	4349594	200.000	310(A)
83 1,4-Dichlorobenzene-d4	152	12.895	12.599	(1.000)	407634	50.0000	
84 1,4-Dichlorobenzene	146	12.637	12.619	(1.003)	3534687	200.000	200(A)
85 n-Butylbenzene	91	13.062	13.054	(1.037)	4747916	200.000	220(A)
86 1,2-Dichlorobenzene	146	13.083	13.064	(1.038)	3539231	200.000	210(A)
R 87 Xylene (Total)	106				8151940	600.000	680
88 1,2-Dibromo-3-chloropropane	75	13.932	13.903	(1.106)	266553	200.000	170
89 1,2,4-Trichlorobenzene	180	14.855	14.846	(1.179)	1893376	200.000	210(A)
90 Hexachlorobutadiene	225	15.046	15.048	(1.195)	733973	200.000	200(A)
91 Naphthalene	128	15.110	15.101	(1.200)	3492269	200.000	190
92 1,2,3-Trichlorobenzene	146	15.344	15.366	(1.220)	2923949	200.000	200

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

1/9/03



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021224.B\V6C4110.D
Report Date: 03-Jan-2003 12:19

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021224.B\V6C4110.D
Lab Smp Id: V6S1224B Client Smp ID: VSTD0056N
Inj Date : 24-DEC-2002 17:24
Operator : KEN Inst ID: v6.i
Smp Info : 8260,V6S1224B,VSTD0056N
Misc Info : ,1,1
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021224.B\v68260.m
Meth Date : 29-Dec-2002 14:40 mtl Quant Type: ISTD
Cal Date : 24-DEC-2002 17:24 Cal File: V6C4110.D
Als bottle: 10 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged [mL]

Compounds	QUANT RIO MASS	RT	REF RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	QM-COL (ug/L)
1 Dichlorodifluoromethane	85	2.021	2.045	(0.269)	38589	5.00000	4(a)
2 Freon13	85	2.301	2.189	(0.311)	26575	5.00000	5
3 Chloromethane	50	2.380	2.372	(0.325)	47905	5.00000	4(a)
4 Vinyl Chloride	62	2.414	2.414	(0.344)	46052	5.00000	5
5 Bromomethane	94	2.791	2.789	(0.397)	27705	5.00000	4(a)
6 Chloroethane	64	2.935	2.928	(0.416)	36789	5.00000	5
7 Trichlorofluoromethane	101	3.038	3.037	(0.461)	69544	5.00000	5
8 Acrolein	56	3.681	3.673	(0.525)	12833	25.0000	27
9 1,1-Dichloroethene	96	3.813	3.817	(0.543)	57827	5.00000	5
111 1,1,2-Trichlo-1,2,2-trifluoro	101	3.839	3.858	(0.546)	58797	5.00000	5
3 Acetone	43	3.837	3.867	(0.546)	20734	5.00000	9
10 Iodomethane	142	3.943	4.005	(0.562)	71266	5.00000	5
11 Carbon Disulfide	76	4.063	4.066	(0.578)	139716	5.00000	5
12 Acetonitrile	40	4.146	4.146	(0.593)	19256	50.0000	55
13 Allyl Chloride	76	4.184	4.184	(0.596)	37249	5.00000	3(a)
20 2-Chloro-1,3-Butadiene	53	5.205	5.187	(0.741)	67956	5.00000	5

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021224.B\V6C4110.D
Report Date: 03-Jan-2003 12:19

Compounds	QUANT RIO MASS	RT	REF RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	QM-COL (ug/L)
112 Methyl Acetate	43	4.320	4.332	(0.601)	13340	5.00000	5
14 Methylene Chloride	84	4.330	4.337	(0.616)	42469	5.00000	5
15 Acrylonitrile	53	4.879	4.881	(0.692)	69641	25.0000	25
16 trans-1,2-Dichloroethene	96	4.934	4.934	(0.660)	52441	5.00000	5
17 Methyl tert-butyl ether	73	5.056	4.644	(0.681)	121711	5.00000	5
18 1,1-Dichloroethane	63	5.090	5.094	(0.726)	69619	5.00000	5
19 Vinyl Acetate	43	5.118	5.138	(0.732)	68010	5.00000	4(a)
22 2-Butanone	43	5.747	5.726	(0.818)	17404	5.00000	5(a)
23 cis-1,2-Dichloroethene	96	5.729	5.732	(0.816)	56716	5.00000	5
24 2,2-Dichloropropane	77	5.715	5.732	(0.816)	47303	5.00000	5
25 Propionitrile	54	5.793	5.761	(0.823)	53423	50.0000	49(a)
26 Methacrylonitrile	41	5.964	5.967	(0.849)	376689	50.0000	50
27 Bromochloromethane	128	6.096	6.094	(0.856)	27224	5.00000	5
28 Tetrahydrofuran	72	6.067	6.061	(0.863)	2706	5.00000	3(a)
29 Chloroform	83	6.075	6.073	(0.865)	90738	5.00000	5
R 30 Dibromofluoromethane	113	6.252	6.249	(0.890)	45089	5.00000	5
31 1,1,1-Trichloroethane	97	6.304	6.304	(0.898)	92804	5.00000	5
135 Cyclohexane	56	6.175	6.383	(0.908)	78369	5.00000	5
32 1,1-Dichloropropene	110	6.423	6.425	(0.915)	83248	5.00000	4(a)
33 Carbon Tetrachloride	117	6.591	6.593	(0.926)	53898	5.00000	5
34 Isobutyl Alcohol	43	6.592	6.590	(0.939)	24855	100.000	94(a)
S 35 1,2-Dichloroethane-d4	102	6.635	6.638	(0.945)	73078	5.00000	5
77 Benzene	78	6.720	6.717	(0.957)	220436	5.00000	5
36 1,2-Dichloroethane	62	6.726	6.717	(0.958)	55307	5.00000	5
R 21 1,2-Dichloroethane (Total)	96				111351	10.0000	10
* 38 Fluorobenzene	96	7.026	7.021	(1.000)	3085985	50.0000	
39 Trichloroethene	130	7.454	7.451	(1.061)	54559	5.00000	5
134 Methylcyclohexane	83	7.699	7.702	(1.096)	86328	5.00000	4(a)
40 1,2-Dichloropropane	63	7.705	7.708	(1.097)	54547	5.00000	5(f)
41 Methyl Methacrylate	69	7.814	7.824	(1.113)	27213	5.00000	4(a)
42 Dibromomethane	93	7.851	7.846	(1.118)	30816	5.00000	5
43 Bromodichloromethane	83	8.021	8.025	(1.142)	46701	5.00000	5
44 2-Chloroethyl vinyl ether	63	8.368	8.371	(1.191)	31169	5.00000	3(a)
45 cis-1,3-Dichloropropene	75	8.474	8.466	(1.205)	89753	5.00000	4(a)
46 4-Methyl-2-pentanone	43	8.765	8.742	(1.245)	30896	5.00000	4(a)
R 47 Toluene-d8	98	8.818	8.816	(0.828)	1660e9	4.99595	5
48 Toluene	91	8.880	8.878	(1.281)	210124	5.00000	5
49 trans-1,3-Dichloropropene	75	8.998	9.253	(1.312)	66283	5.00000	4(a)
50 Ethyl Methacrylate	69	9.359	9.357	(1.332)	52046	5.00000	4(a)
51 1,1,2-Trichloroethane	97	9.487	9.484	(1.350)	44178	5.00000	5
52 Tetrachloroethene	164	9.718	9.705	(0.903)	61629	5.00000	5
53 1,3-Dichloropropane	76	9.700	9.709	(0.803)	98056	5.00000	5
54 2-Hexanone	43	9.861	9.861	(0.911)	15166	5.00000	4(a)
55 Dibromochloromethane	129	10.004	10.007	(0.929)	44304	5.00000	5
56 1,2-Dibromoethane	107	10.146	10.172	(0.943)	41119	5.00000	5(f)
115 1-Chlorohexane	91	10.778	10.755	(0.999)	76538	5.00000	5
* 57 Chlorobenzene-d5	117	10.764	10.767	(1.000)	1587646	50.0000	

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021224.B\V6C4110.D
Report Date: 03-Jan-2003 12:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
58	Chlorobenzene	112	10.800	10.804	(1.003)	158941	5.00000	5
59	1,1,1,2-Tetrachloroethane	131	10.898	10.901	(1.012)	51086	5.00000	5
60	Ethylbenzene	106	10.934	10.932	(1.016)	77712	5.00000	4
61	m,p-Xylene	106	11.086	11.084	(1.030)	195885	10.0000	10
62	o-Xylene	106	11.585	11.576	(1.076)	82920	5.00000	4
64	Styrene	104	11.591	11.588	(1.077)	151402	5.00000	5
65	Bromoform	173	11.611	11.611	(1.078)	34566	5.00000	4(a)
66	Isopropylbenzene	105	12.029	12.026	(1.118)	215354	5.00000	5
67	trans-1,4-Dichloro-2-butene	75	12.096	12.087	(1.124)	12801	5.00000	4(a)
S 68	Bromofluorobenzene	95	12.217	12.215	(1.135)	66931	5.00000	5
69	1,1,2,2-Tetrachloroethane	83	12.363	12.373	(0.910)	54748	5.00000	5
70	Bromobenzene	156	12.404	12.403	(0.913)	58217	5.00000	5
71	1,2,3-Trichloropropane	75	12.430	12.428	(0.915)	61690	5.00000	4(a)
72	n-Propylbenzene	120	12.527	12.525	(0.922)	65489	5.00000	4(a)
73	2-Chlorotoluene	126	12.637	12.634	(0.930)	60959	5.00000	5
74	1,3,5-Trimethylbenzene	105	12.734	12.732	(0.937)	194410	5.00000	5
75	4-Chlorotoluene	126	12.759	12.762	(0.939)	63641	5.00000	5
M 63	Xylene (Total)	106				288805	15.0000	14
76	tert-Butylbenzene	119	13.123	13.127	(0.966)	210747	5.00000	5
77	1,2,4-Trimethylbenzene	105	13.178	13.176	(0.970)	199422	5.00000	5
78	sec-Butylbenzene	105	13.379	13.376	(0.985)	263820	5.00000	5
80	1,3-Dichlorobenzene	146	13.513	13.510	(0.995)	119992	5.00000	5
79	4-Isopropyltoluene	119	13.543	13.541	(0.997)	204003	5.00000	5
* 81	1,4-Dichlorobenzene-d4	152	13.586	13.583	(1.000)	772717	50.0000	
82	1,4-Dichlorobenzene	146	13.616	13.614	(1.002)	127878	5.00000	5
83	n-Butylbenzene	91	14.017	14.009	(1.032)	189390	5.00000	5
84	1,2-Dichlorobenzene	146	14.042	14.039	(1.034)	114488	5.00000	5
85	Hexachloroethane	117	14.346	14.343	(1.056)	35145	5.00000	5
86	1,2-Dibromo-3-chloropropane	75	14.899	14.903	(1.097)	8189	5.00000	5
87	1,2,4-Trichlorobenzene	180	15.824	15.821	(1.165)	45574	5.00000	5
88	Hexachlorobutadiene	225	16.006	16.004	(1.178)	30357	5.00000	5
89	Naphthalene	128	16.091	16.089	(1.184)	137552	5.00000	5
90	1,2,3-Trichlorobenzene	180	16.353	16.350	(1.204)	61234	5.00000	5

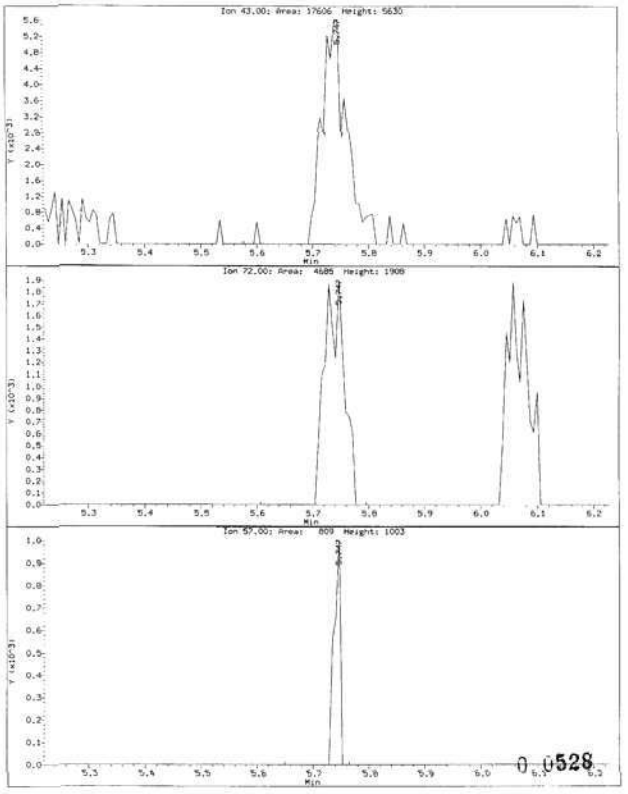
QC Flag Legend

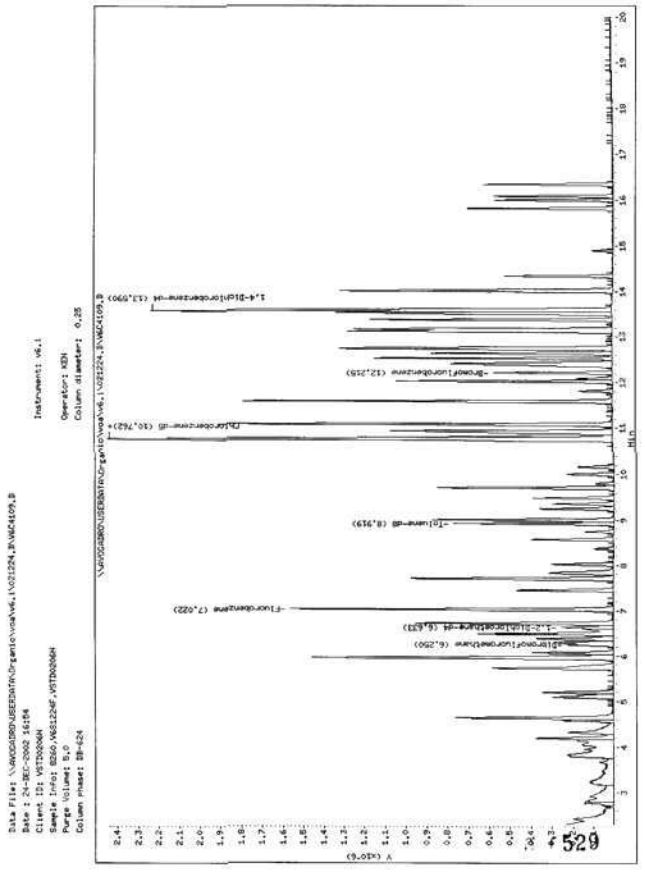
T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

1/3/03

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021224.B\V6C4110.D
Injection Date: 24-DEC-2002 17:24
Instrument: v6.i
Client Sample ID: VSTD0056H

Compound: 2-Butanone
CAS Number: 78-93-3





Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021224.B\V6C4109.D
Report Date: 03-Jan-2003 12:19

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021224.B\V6C4109.D
Lab Smp Id: V6S1224F Client Smp ID: VSTD0206N
Inj Date : 24-DEC-2002 16:54
Operator : KEN Inst ID: v6.i
Smp Info : 8260,V6S1224F,VSTD0206N
Misc Info : ,1,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021224.B\v68260.m
Meth Date : 29-Dec-2002 14:40 mtl Quant Type: ISTD
Cal Date : 24-DEC-2002 16:54 Cal File: V6C4109.D
Als bottle: 9 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * S/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1	Dichlorodifluoromethane	85	2.029	2.035	(0.289)	166810	20.0000	19
114	Freon114	85	2.193	2.199	(0.312)	233738	20.0000	20
2	Chloromethane	50	2.266	2.272	(0.323)	326733	20.0000	21
3	Vinyl Chloride	62	2.418	2.418	(0.344)	290600	20.0000	20
4	Bromomethane	94	2.777	2.789	(0.395)	159120	20.0000	21
5	Chloroethane	64	2.929	2.923	(0.417)	157523	20.0000	23
6	Trichlorofluoromethane	101	3.209	3.227	(0.457)	286849	20.0000	19
7	Acrolein	56	3.671	3.671	(0.523)	48208	100.000	100
8	1,1-Dichloroethene	96	3.799	3.817	(0.541)	216523	20.0000	18
111	1,1,2-Trichlo-1,2,2-trifluoro	101	3.853	3.835	(0.549)	144718	20.0000	15
9	Acetone	43	3.835	3.847	(0.548)	42367	20.0000	21
10	Iodomethane	142	3.957	4.005	(0.564)	251725	20.0000	18
11	Carbon Disulfide	76	4.066	4.066	(0.579)	459129	20.0000	18
12	Acetonitrile	40	4.139	4.145	(0.589)	117270	200.000	200
13	Allyl Chloride	76	4.188	4.194	(0.596)	255635	20.0000	22
20	2-Chloro-1,3-Butadiene	53	5.197	5.197	(0.740)	278132	20.0000	19

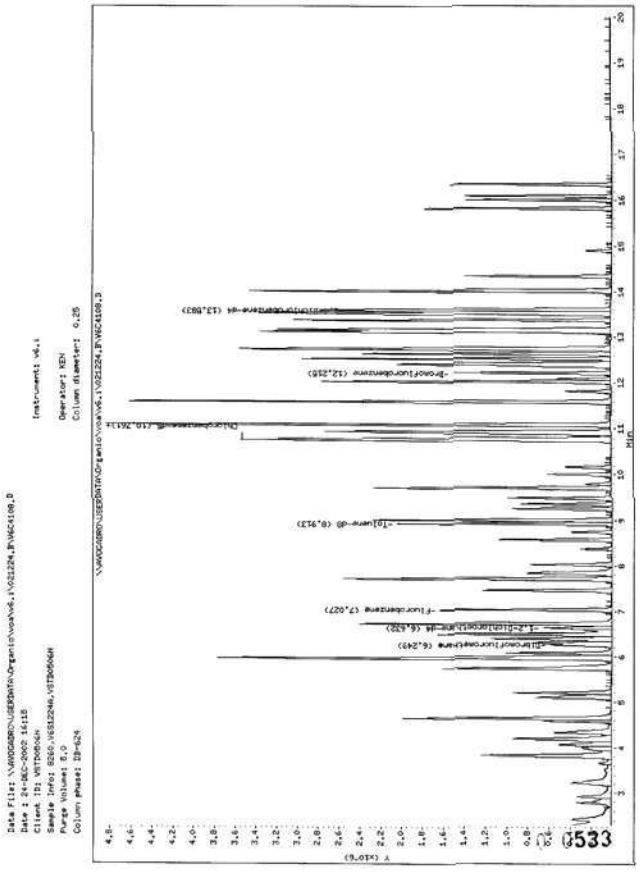
Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021224.B\V6C4109.D
Report Date: 03-Jan-2003 12:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
112	Methyl Acetate	43	4.206	4.212	(0.599)	135394	20.0000	21
14	Methylene Chloride	84	4.316	4.327	(0.615)	232203	20.0000	20
15	Acrylonitrile	53	4.577	4.583	(0.652)	277411	100.000	96
16	trans-1,2-Dichloroethene	96	4.638	4.638	(0.661)	218259	20.0000	19
17	Methyl tert-butyl ether	73	4.644	4.644	(0.661)	516316	20.0000	19
18	1,1-Dichloroethane	63	5.088	5.084	(0.725)	377125	20.0000	20
19	Vinyl acetate	43	5.131	5.136	(0.731)	283171	20.0000	18
22	2-Butanone	43	5.726	5.726	(0.816)	64899	20.0000	19
23	cis-1,2-Dichloroethene	96	5.726	5.732	(0.816)	235267	20.0000	19
24	2,2-Dichloropropane	77	5.733	5.732	(0.816)	170647	20.0000	18
25	Propionitrile	54	5.781	5.781	(0.823)	211699	200.000	190
26	Methacrylonitrile	41	5.958	5.957	(0.848)	944445	200.000	200
27	Bromochloromethane	128	5.968	5.934	(0.853)	110009	20.0000	19
29	Tetrahydrofuran	72	6.073	6.061	(0.865)	22896	20.0000	20
28	Chloroform	83	6.067	6.073	(0.864)	365931	20.0000	20
S 30	Dibromofluoromethane	113	6.250	6.249	(0.890)	188292	20.0000	20
31	1,1,1-Trichloroethane	97	6.298	6.304	(0.897)	254882	20.0000	20
113	Cyclohexane	56	6.377	6.383	(0.908)	287008	20.0000	17
32	1,1-Dichloropropene	110	6.481	6.486	(0.923)	104159	20.0000	19
33	Carbon Tetrachloride	117	6.499	6.492	(0.926)	232592	20.0000	19
34	Isobutyl Alcohol	43	6.584	6.590	(0.938)	113631	400.000	400
S 35	1,2-Dichloroethane-d4	102	6.633	6.638	(0.945)	48600	20.0000	19
37	Benzene	78	6.718	6.717	(0.957)	918350	20.0000	20
36	1,2-Dichloroethane	62	6.718	6.717	(0.957)	269725	20.0000	20
M 21	1,2-Dichloroethene (Total)	96				453526	40.0000	38
* 38	Fluorobenzene	96	7.022	7.021	(1.000)	2126318	50.0000	
39	Trichloroethene	130	7.454	7.453	(1.061)	228216	20.0000	20
114	Methylcyclohexane	83	7.703	7.702	(1.097)	354726	20.0000	18
40	1,2-Dichloropropane	63	7.703	7.709	(1.097)	231487	20.0000	20
41	Methyl Methacrylate	69	7.819	7.824	(1.113)	125857	20.0000	18
42	Dibromomethane	93	7.843	7.848	(1.117)	127710	20.0000	20
43	Bromodichloromethane	83	8.025	8.025	(1.143)	280845	20.0000	20
44	2-Chloroethyl vinyl ether	63	8.372	8.371	(1.192)	61759	20.0000	15
45	cis-1,3-Dichloropropene	75	8.566	8.566	(1.220)	348467	20.0000	19
46	4-Methyl-2-pentanone	43	8.743	8.742	(1.245)	133768	20.0000	19
S 47	Toluene-d8	98	8.919	8.919	(0.829)	816555	20.0000	21
48	Toluene	91	8.998	8.998	(1.282)	981743	20.0000	20
49	trans-1,3-Dichloropropene	75	9.248	9.253	(1.317)	296905	20.0000	19
50	Ethyl Methacrylate	69	9.357	9.357	(1.333)	238372	20.0000	18
51	1,1,2-Trichloroethane	97	9.491	9.484	(1.352)	191533	20.0000	20
53	Tetrachloroethene	164	9.710	9.709	(0.902)	172349	20.0000	20
52	1,3-Dichloropropane	76	9.704	9.709	(0.902)	331172	20.0000	20
54	2-Hexanone	43	9.795	9.801	(0.910)	84709	20.0000	19
55	Dibromochloromethane	129	10.008	10.007	(0.930)	194924	20.0000	20
56	1,2-Dibromoethane	107	10.172	10.172	(0.945)	185945	20.0000	20
115	1-Chlorohexane	91	10.756	10.755	(0.999)	300044	20.0000	19
* 57	Chlorobenzene-d5	117	10.762	10.767	(1.000)	1588043	50.0000	

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021224.B\V6C4109.D
Report Date: 03-Jan-2003 12:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
58	Chlorobenzene	112	10.798	10.804	(1.003)	667194	20.0000	21
59	1,1,1,2-Tetrachloroethane	131	10.896	10.901	(1.012)	206293	20.0000	20
60	Ethylbenzene	106	10.932	10.932	(1.016)	356546	20.0000	20
61	m,p-Xylene	106	11.078	11.084	(1.029)	670687	40.0000	41
62	o-Xylene	106	11.577	11.576	(1.076)	420780	20.0000	20
64	Styrene	104	11.589	11.588	(1.077)	716589	20.0000	20
65	Bromoform	173	11.820	11.820	(1.098)	108084	20.0000	19
66	Isopropylbenzene	105	12.027	12.026	(1.118)	987868	20.0000	21
67	trans-1,4-Dichloro-2-butene	75	12.088	12.087	(1.123)	58511	20.0000	17
S 68	Bromofluorobenzene	95	12.215	12.215	(1.135)	282720	20.0000	20
69	1,1,2,2-Tetrachloroethane	83	12.367	12.373	(0.910)	235680	20.0000	20
70	Bromobenzene	156	12.404	12.403	(0.913)	255467	20.0000	20
71	1,2,3-Trichloropropane	75	12.428	12.428	(0.915)	264754	20.0000	19
72	n-Propylbenzene	120	12.525	12.525	(0.922)	299423	20.0000	20
73	2-Chlorotoluene	126	12.635	12.634	(0.930)	265751	20.0000	20
74	1,3,5-Trimethylbenzene	105	12.732	12.732	(0.937)	852903	20.0000	20
75	4-Chlorotoluene	126	12.763	12.762	(0.940)	276025	20.0000	20
M 63	Xylene (Total)	106				1291467	60.0000	61
76	tert-Butylbenzene	119	13.121	13.127	(0.966)	949673	20.0000	20
77	1,2,4-Trimethylbenzene	105	13.176	13.176	(0.970)	893307	20.0000	21
78	sec-Butylbenzene	105	13.383	13.376	(0.985)	1133857	20.0000	21
80	1,3-Dichlorobenzene	146	13.511	13.510	(0.995)	495212	20.0000	20
79	4-Isopropyltoluene	119	13.541	13.541	(0.997)	922708	20.0000	21
* 81	1,4-Dichlorobenzene-d4	152	13.584	13.583	(1.000)	793867	50.0000	
82	1,4-Dichlorobenzene	146	13.614	13.614	(1.002)	501714	20.0000	21
83	n-Butylbenzene	91	14.015	14.009	(1.032)	845949	20.0000	21
84	1,2-Dichlorobenzene	146	14.046	14.039	(1.034)	477550	20.0000	21
85	Hexachloroethane	117	14.344	14.343	(1.056)	143323	20.0000	19
86	1,2-Dibromo-3-chloropropane	75	14.903	14.903	(1.097)	33314	20.0000	20
87	1,2,4-Trichlorobenzene	180	15.828	15.821	(1.165)	300678	20.0000	20
88	Hexachlorobutadiene	225	16.010	16.004	(1.179)	140534	20.0000	21
89	Naphthalene	128	16.093	16.089	(1.184)	656815	20.0000	21
90	1,2,3-Trichlorobenzene	180	16.357	16.350	(1.204)	263979	20.0000	21

1/3/03



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021224.B\V6C4108.D
Report Date: 03-Jan-2003 12:19

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021224.B\V6C4108.D
Lab Smp Id: V6S1224A Client Smp ID: VSTD0506N
Inj Date : 24-DEC-2002 16:15
Operator : KEN Inst ID: v6.i
Smp Info : 8260,V6S1224A,VSTD0506N
Misc Info : ,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021224.B\v68260.m
Meth Date : 29-Dec-2002 14:40 mtl Quant Type: ISTD
Cal Date : 24-DEC-2002 16:15 Cal File: V6C4108.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1	Dichlorodifluoromethane	85	2.035	2.035	(0.290)	458271	50.0000	50
)14	Freon114	85	2.199	2.199	(0.313)	602474	50.0000	49
2	Chloromethane	50	2.272	2.272	(0.324)	783476	50.0000	50
3	Vinyl Chloride	62	2.418	2.418	(0.344)	731279	50.0000	49
4	Bromomethane	94	2.789	2.789	(0.397)	351817	50.0000	46
5	Chloroethane	64	2.923	2.923	(0.416)	466058	50.0000	59
6	Trichlorofluoromethane	101	3.227	3.227	(0.460)	768023	50.0000	48
7	Acrolein	56	3.671	3.671	(0.523)	124821	250.000	270
8	1,1-Dichloroethene	96	3.817	3.817	(0.544)	623440	50.0000	49
)11	1,1,2-Trichlo-1,2,2-trifluoro	101	3.835	3.835	(0.546)	529992	50.0000	49
9	Acetone	43	3.847	3.847	(0.548)	93668	50.0000	54
10	Iodomethane	142	4.005	4.005	(0.570)	738605	50.0000	48
11	Carbon Disulfide	76	4.066	4.066	(0.579)	1432449	50.0000	50
12	Acetonitrile	40	4.145	4.145	(0.590)	314792	500.000	510
13	Allyl Chloride	76	4.194	4.194	(0.597)	492587	50.0000	41
20	2-Chloro-1,3-Butadiene	53	5.197	5.197	(0.740)	758901	50.0000	49

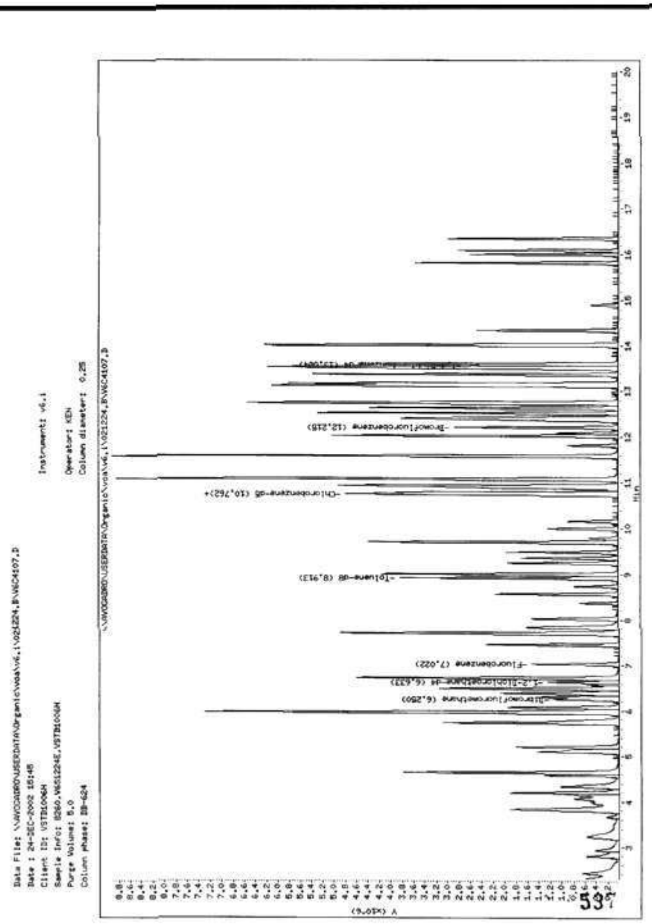
Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021224.B\V6C4108.D
Report Date: 03-Jan-2003 12:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	112 Methyl Acetate	43	4.212	4.212	(0.600)	317357	50.0000	49
	14 Methylene Chloride	84	4.327	4.327	(0.616)	576489	50.0000	49
	15 Acrylonitrile	53	4.583	4.583	(0.653)	742784	250.000	240
	16 trans-1,2-Dichloroethene	96	4.638	4.638	(0.660)	591930	50.0000	49
	17 Methyl tert-butyl ether	73	4.644	4.644	(0.661)	1413965	50.0000	49
	18 1,1-Dichloroethane	63	5.094	5.094	(0.725)	990119	50.0000	50
	19 Vinyl acetate	43	5.136	5.136	(0.732)	831597	50.0000	48
	22 2-Butanone	43	5.726	5.726	(0.816)	172310	50.0000	49
	23 cis-1,2-Dichloroethene	96	5.732	5.732	(0.816)	636529	50.0000	49
	24 2,2-Dichloropropane	77	5.732	5.732	(0.816)	493662	50.0000	50
	25 Propionitrile	54	5.781	5.781	(0.823)	574394	500.000	490
	26 Methacrylonitrile	41	5.957	5.957	(0.848)	2487517	500.000	500
	27 Bromochloromethane	128	5.994	5.994	(0.854)	297380	50.0000	49
	29 Tetrahydrofuran	72	6.061	6.061	(0.863)	60655	50.0000	49
	28 Chloroform	83	6.073	6.073	(0.865)	952979	50.0000	50
$	30 Dibromofluoromethane	113	6.249	6.249	(0.890)	491165	50.0000	49
	31 1,1,1-Trichloroethane	97	6.304	6.304	(0.898)	682747	50.0000	50
	113 Cyclohexane	56	6.383	6.383	(0.909)	875153	50.0000	49
	32 1,1-Dichloropropene	110	6.486	6.486	(0.924)	280634	50.0000	49
	33 Carbon Tetrachloride	117	6.492	6.492	(0.925)	617256	50.0000	48
	34 Isobutyl Alcohol	43	6.590	6.590	(0.939)	289972	1000.00	980
$	35 1,2-Dichloroethane-d4	102	6.638	6.638	(0.945)	129115	50.0000	48
	37 Benzene	78	6.717	6.717	(0.957)	2407954	50.0000	51
	36 1,2-Dichloroethane	62	6.717	6.717	(0.957)	691724	50.0000	50
M	21 1,2-Dichloroethene (Total)	96				1228459	100.000	98
*	38 Fluorobenzene	96	7.021	7.021	(1.000)	2312002	50.0000	
	39 Trichloroethene	130	7.453	7.453	(1.061)	599728	50.0000	49
	114 Methylcyclohexane	83	7.702	7.702	(1.097)	1001916	50.0000	48
	40 1,2-Dichloropropane	63	7.709	7.709	(1.098)	610816	50.0000	49
	41 Methyl Methacrylate	69	7.824	7.824	(1.114)	350811	50.0000	47
	42 Dibromomethane	93	7.848	7.848	(1.118)	331123	50.0000	49
	43 Bromodichloromethane	83	8.025	8.025	(1.143)	728786	50.0000	49
	44 2-Chloroethyl vinyl ether	63	8.371	8.371	(1.192)	192642	50.0000	43
	45 cis-1,3-Dichloropropene	75	8.566	8.566	(1.220)	963018	50.0000	49
	46 4-Methyl-2-pentanone	43	8.742	8.742	(1.245)	358636	50.0000	48
$	47 Toluene-d8	98	8.919	8.919	(0.828)	2133973	50.0000	52
	48 Toluene	91	8.998	8.998	(1.281)	2570081	50.0000	52
	49 trans-1,3-Dichloropropene	75	9.253	9.253	(1.318)	811611	50.0000	48
	50 Ethyl Methacrylate	69	9.357	9.357	(1.333)	670995	50.0000	48
	51 1,1,2-Trichloroethane	97	9.484	9.484	(1.351)	497017	50.0000	49
	53 Tetrachloroethene	164	9.709	9.709	(0.902)	462106	50.0000	50
	52 1,3-Dichloropropane	76	9.709	9.709	(0.902)	873271	50.0000	49
	54 2-Hexanone	43	9.801	9.801	(0.910)	234529	50.0000	46
	55 Dibromochloromethane	129	10.007	10.007	(0.929)	517654	50.0000	48
	56 1,2-Dibromoethane	107	10.172	10.172	(0.945)	481399	52.0000	49
	115 1-Chlorohexane	91	10.755	10.755	(0.999)	846675	50.0000	51
*	57 Chlorobenzene-d5	117	10.767	10.767	(1.000)	1709463	50.0000	

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021224.B\V6C4108.D
Report Date: 03-Jan-2003 12:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	58 Chlorobenzene	112	10.804	10.804	(1.003)	1706128	50.0000	51
	59 1,1,1,2-Tetrachloroethane	131	10.901	10.901	(1.012)	553907	50.0000	50
	60 Ethylbenzene	106	10.932	10.932	(1.015)	942893	50.0000	50
	61 m,p-Xylene	106	11.084	11.084	(1.029)	2291975	100.000	100
	62 o-Xylene	106	11.576	11.576	(1.076)	1140003	50.0000	49
	64 Styrene	104	11.588	11.588	(1.076)	1915802	50.0000	52
	65 Bromoform	173	11.820	11.820	(1.098)	300577	50.0000	49
	66 Isopropylbenzene	105	12.026	12.026	(1.117)	2646060	50.0000	53
	67 trans-1,4-Dichloro-2-butene	75	12.087	12.087	(1.123)	182211	50.0000	46
$	68 Bromofluorobenzene	95	12.215	12.215	(1.134)	754054	50.0000	50
	69 1,1,2,2-Tetrachloroethane	83	12.373	12.373	(0.911)	615206	50.0000	49
	70 Bromobenzene	156	12.403	12.403	(0.913)	668979	50.0000	50
	71 1,2,3-Trichloropropane	75	12.428	12.428	(0.915)	742062	50.0000	49
	72 n-Propylbenzene	120	12.525	12.525	(0.922)	801026	50.0000	49
	73 2-Chlorotoluene	126	12.634	12.634	(0.930)	694409	50.0000	50
	74 1,3,5-Trimethylbenzene	105	12.732	12.732	(0.937)	2255569	50.0000	52
	75 4-Chlorotoluene	126	12.762	12.762	(0.940)	712087	50.0000	49
M	63 Xylene (Total)	106				3431978	150.000	150
	76 tert-Butylbenzene	119	13.127	13.127	(0.966)	2517126	50.0000	51
	77 1,2,4-Trimethylbenzene	105	13.176	13.176	(0.970)	2316949	50.0000	52
	78 sec-Butylbenzene	105	13.376	13.376	(0.985)	2961752	50.0000	54
	80 1,3-Dichlorobenzene	146	13.510	13.510	(0.995)	1285005	50.0000	50
	79 4-Isopropyltoluene	119	13.541	13.541	(0.997)	2387496	50.0000	52
*	81 1,4-Dichlorobenzene-d4	152	13.583	13.583	(1.000)	834578	50.0000	
	82 1,4-Dichlorobenzene	146	13.614	13.614	(1.002)	1296915	50.0000	51
	83 n-Butylbenzene	91	14.009	14.009	(1.031)	2269107	50.0000	53
	84 1,2-Dichlorobenzene	146	14.039	14.039	(1.034)	1203909	50.0000	50
	85 Hexachloroethane	117	14.343	14.343	(1.056)	403190	50.0000	49
	86 1,2-Dibromo-3-chloropropane	75	14.903	14.903	(1.097)	87558	50.0000	48
	87 1,2,4-Trichlorobenzene	180	15.821	15.821	(1.165)	746592	50.0000	48
	88 Hexachlorobutadiene	225	16.004	16.004	(1.178)	330070	50.0000	48
	89 Naphthalene	128	16.089	16.089	(1.184)	1571421	50.0000	50
	90 1,2,3-Trichlorobenzene	180	16.350	16.350	(1.204)	641432	50.0000	48

(58)
1/3/03



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021224.B\V6C4107.D
Report Date: 03-Jan-2003 12:19

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021224.B\V6C4107.D
Lab Smp Id: V6S1224E — Client Smp ID: VSTD1006N
Inj Date : 24-DEC-2002 15:45
Operator : KEN — Inst ID: v6.i
Smp Info : 8260,V6S1224E,VSTD1006N
Misc Info : ,1,4
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021224.B\v68260.m
Meth Date : 29-Dec-2002 14:40 mtl — Quant Type: ISTD
Cal Date : 24-DEC-2002 15:45 — Cal File: V6C4107.D
Als bottle: 7 — Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE — Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	2.035	2.035	(0.290)	855371	100.000	100
116 Freon114	85	2.199	2.199	(0.313)	1124400	100.000	100
2 Chloromethane	50	2.272	2.272	(0.323)	1601225	100.000	100
3 Vinyl Chloride	62	2.412	2.418	(0.343)	1389044	100.000	100
4 Bromomethane	94	2.801	2.768	(0.399)	828041	100.000	110
5 Chloroethane	64	2.929	2.923	(0.417)	653206	100.000	110
6 Trichlorofluoromethane	101	3.233	3.227	(0.460)	1510207	100.000	100
7 Acrolein	56	3.671	3.671	(0.522)	237388	500.000	570
8 1,1-Dichloroethene	96	3.817	3.817	(0.543)	1184526	100.000	100
111 1,1,2-Trichlo-1,2,2-trifluoro	101	3.835	3.836	(0.546)	1009352	100.000	100
9 Acetone	43	3.841	3.849	(0.547)	176674	100.000	110
10 Iodomethane	142	3.999	4.006	(0.569)	1393156	100.000	98
11 Carbon Disulfide	76	4.072	4.066	(0.579)	2546200	100.000	98
12 Acetonitrile	40	4.146	4.145	(0.590)	570366	1000.00	1000
13 Allyl Chloride	76	4.134	4.134	(0.597)	1176088	100.000	98
20 2-Chloro-1,3-Butadiene	53	5.197	5.197	(0.740)	1444955	100.000	100

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021224.B\V6C4107.D
Report Date: 03-Jan-2003 12:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
112	Methyl Acetate	43	4.212	4.212	(0.599)	604833	100.000	100
14	Methylene Chloride	84	4.328	4.327	(0.616)	1125544	100.000	100
15	Acrylonitrile	53	4.577	4.583	(0.651)	1496689	500.000	520
16	trans-1,2-Dichloroethene	96	4.638	4.638	(0.660)	1140150	100.000	100
17	Methyl tert-butyl ether	73	4.644	4.644	(0.661)	2722189	100.000	100
18	1,1-Dichloroethane	63	5.088	5.094	(0.724)	1917249	100.000	100
19	Vinyl acetate	43	5.137	5.136	(0.731)	1641112	100.000	100
22	2-Butanone	43	5.727	5.726	(0.815)	340635	100.000	100
23	cis-1,2-Dichloroethene	96	5.727	5.732	(0.815)	1236008	100.000	100
24	2,2-Dichloropropane	77	5.733	5.732	(0.816)	923791	100.000	100
25	Propionitrile	54	5.781	5.781	(0.823)	1138774	1000.00	1000
26	Methacrylonitrile	41	5.958	5.957	(0.848)	4877166	1000.00	1100
27	Bromochloromethane	128	5.994	5.994	(0.853)	574719	100.000	100
29	Tetrahydrofuran	72	6.061	6.061	(0.862)	119140	100.000	100
28	Chloroform	83	6.073	6.073	(0.864)	1823402	100.000	100
$ 30	Dibromofluoromethane	113	6.250	6.249	(0.889)	947823	100.000	100
31	1,1,1-Trichloroethane	97	6.304	6.304	(0.897)	1280321	100.000	100
113	Cyclohexane	56	6.381	6.383	(0.908)	1647349	100.000	100
32	1,1-Dichloropropene	110	6.487	6.486	(0.923)	530820	100.000	100
33	Carbon Tetrachloride	117	6.499	6.492	(0.925)	1195045	100.000	100
34	Isobutyl Alcohol	43	6.584	6.590	(0.937)	577964	2000.00	2100
$ 35	1,2-Dichloroethane-d4	102	6.633	6.638	(0.944)	263355	100.000	100
37	Benzene	78	6.718	6.717	(0.956)	4503501	100.000	100
36	1,2-Dichloroethane	62	6.718	6.717	(0.956)	1309666	100.000	100
M 21	1,2-Dichloroethene (Total)	96				2376158	200.000	200
* 38	Fluorobenzene	96	7.028	7.021	(1.000)	2026986	50.0000	
39	Trichloroethene	130	7.454	7.453	(1.061)	1140674	100.000	100
114	Methylcyclohexane	83	7.703	7.702	(1.096)	1906116	100.000	99
40	1,2-Dichloropropane	63	7.709	7.709	(1.097)	1178060	100.000	100
41	Methyl Methacrylate	69	7.819	7.824	(1.113)	715722	100.000	100
42	Dibromomethane	93	7.849	7.848	(1.117)	647427	100.000	100
43	Bromodichloromethane	83	8.025	8.025	(1.142)	1426957	100.000	100
44	2-Chloroethyl vinyl ether	63	8.372	8.371	(1.191)	421684	100.000	96
45	cis-1,3-Dichloropropene	75	8.567	8.566	(1.219)	1869499	100.000	100
46	4-Methyl-2-pentanone	43	8.737	8.742	(1.243)	706514	100.000	100
$ 47	Toluene-d8	98	8.913	8.919	(0.828)	3902045	100.000	100
48	Toluene	91	8.998	8.998	(1.280)	4680457	100.000	100
49	trans-1,3-Dichloropropene	75	9.248	9.253	(1.316)	1608632	100.000	100
50	Ethyl Methacrylate	69	9.357	9.357	(1.331)	1341956	100.000	100
53	1,1,2-Trichloroethane	97	9.491	9.484	(1.350)	955732	100.000	100
53	Tetrachloroethene	164	9.710	9.709	(0.902)	886600	100.000	100
52	1,3-Dichloropropane	76	9.710	9.709	(0.902)	1718137	100.000	100
54	2-Hexanone	43	9.795	9.801	(0.910)	465579	100.000	100
55	Dibromochloromethane	129	10.008	10.007	(0.930)	1025175	100.000	100
56	1,2-Dibromoethane	107	10.166	10.172	(0.945)	948032	100.000	100
115	1-Chlorohexane	91	10.756	10.755	(0.999)	1530359	100.000	99
* 57	Chlorobenzene-d5	117	10.762	10.767	(1.000)	1589908	50.0000	

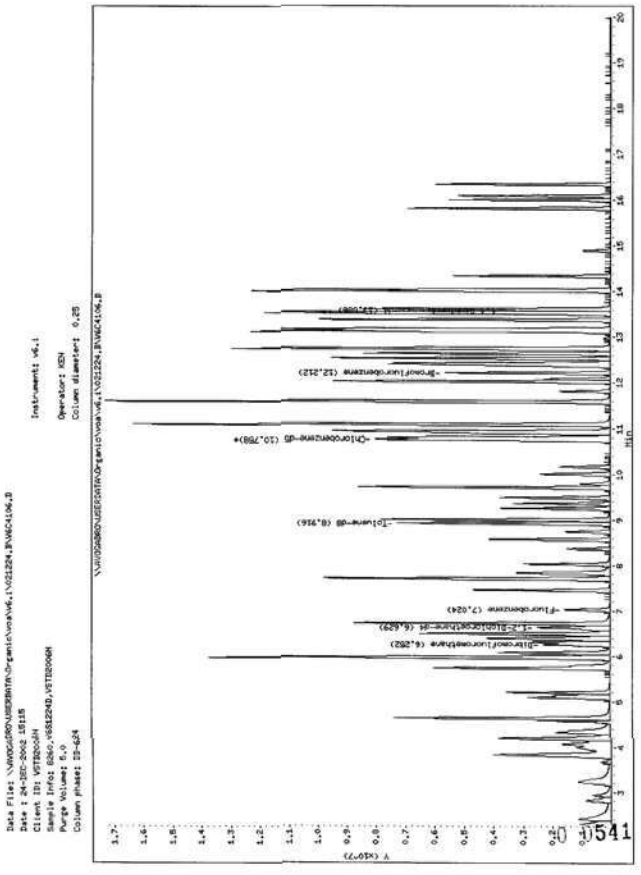
Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021224.B\V6C4107.D
Report Date: 03-Jan-2003 12:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
58	Chlorobenzene	112	10.805	10.804	(1.206)	3186900	100.000	100
59	1,1,1,2-Tetrachloroethane	131	10.896	10.901	(1.012)	1063006	100.000	100
60	Ethylbenzene	106	10.938	10.932	(1.016)	1751573	100.000	100
61	m,p-Xylene	106	11.084	11.084	(1.030)	4253222	200.000	300(A)
62	o-Xylene	106	11.577	11.576	(1.076)	2183728	100.000	100
64	Styrene	104	11.589	11.588	(1.077)	3552836	100.000	100
65	Bromoform	173	11.820	11.820	(1.098)	580869	100.000	100
66	Isopropylbenzene	105	12.027	12.026	(1.118)	4741439	100.000	100
67	trans-1,4-Dichloro-2-butene	75	12.088	12.087	(1.123)	375041	100.000	99
$ 68	Bromofluorobenzene	95	12.215	12.215	(1.135)	1442003	100.000	100
69	1,1,2,2-Tetrachloroethane	83	12.367	12.373	(0.910)	1175564	100.000	100
70	Bromobenzene	156	12.404	12.403	(0.913)	1256631	100.000	100
71	1,2,3-Trichloropropane	75	12.428	12.428	(0.915)	1429650	100.000	100
72	n-Propylbenzene	120	12.526	12.525	(0.922)	1490082	100.000	100
73	2-Chlorotoluene	126	12.635	12.634	(0.930)	1299728	100.000	100
74	1,3,5-Trimethylbenzene	105	12.732	12.732	(0.937)	4086361	100.000	100
75	4-Chlorotoluene	126	12.763	12.762	(0.940)	1347102	100.000	100
M 63	Xylene (Total)	106				6436950	300.000	310
76	tert-Butylbenzene	119	13.122	13.127	(0.966)	4579451	100.000	100
77	1,2,4-Trimethylbenzene	105	13.176	13.176	(0.970)	4162030	100.000	100
78	sec-Butylbenzene	105	13.377	13.376	(0.985)	5181539	100.000	110
80	1,3-Dichlorobenzene	146	13.511	13.510	(0.995)	2369477	100.000	100
79	4-Isopropyltoluene	119	13.541	13.541	(0.997)	4290983	100.000	100
* 81	1,4-Dichlorobenzene-d4	152	13.584	13.583	(1.000)	758735	50.0000	
82	1,4-Dichlorobenzene	146	13.614	13.614	(1.002)	2354926	100.000	100
83	n-Butylbenzene	91	14.009	14.009	(1.031)	4028344	100.000	100
84	1,2-Dichlorobenzene	146	14.040	14.039	(1.034)	2211931	100.000	100
85	Hexachloroethane	117	14.344	14.343	(1.056)	757512	100.000	100
86	1,2-Dibromo-3-chloropropane	75	14.903	14.903	(1.097)	171616	100.000	100
87	1,2,4-Trichlorobenzene	180	15.822	15.821	(1.165)	1478710	100.000	100
88	Hexachlorobutadiene	225	16.010	16.004	(1.179)	639529	100.000	100
89	Naphthalene	128	16.089	16.089	(1.184)	3049834	100.000	110
90	1,2,3-Trichlorobenzene	180	16.351	16.350	(1.204)	1268810	100.000	100

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

SB 1/3/03



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021224.B\V6C4106.D
Report Date: 03-Jan-2003 12:19

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021224.B\V6C4106.D
Lab Smp Id: V6S1224D Client Smp ID: VSTD2006N
Inj Date : 24-DEC-2002 15:15
Operator : KEN Inst ID: v6.i
Smp Info : 8260,V6S1224D,VSTD2006N
Misc Info : ,1,5
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021224.B\v68260.m
Meth Date : 29-Dec-2002 14:40 mtl Quant Type: ISTD
Cal Date : 24-DEC-2002 15:15 Cal File: V6C4106.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1	Dichlorodifluoromethane	85	2.032	2.035	(0.289)	1748398	200.000	200
116	Freon114	85	2.202	2.199	(0.313)	2337525	200.000	200
2	Chloromethane	50	2.263	2.272	(0.322)	3888577	200.000	200
3	Vinyl Chloride	62	2.415	2.418	(0.344)	2842637	200.000	200
4	Bromomethane	94	2.816	2.789	(0.401)	1322529	200.000	200(A)
5	Chloroethane	64	2.938	2.923	(0.418)	1003422	200.000	200
6	Trichlorofluoromethane	101	3.230	3.227	(0.460)	3138339	200.000	200(A)
7	Acrolein	56	3.674	3.671	(0.523)	363284	1000.00	1000
8	1,1-Dichloroethene	96	3.813	3.817	(0.543)	2378801	200.000	200
111	1,1,2-Trichlo-1,2,3-trifluoro	101	3.832	3.835	(0.545)	2044066	200.000	200
9	Acetone	43	3.862	3.847	(0.550)	296597	200.000	200(H)
10	Iodomethane	142	3.996	4.005	(0.569)	2884253	200.000	200
11	Carbon Disulfide	76	4.069	4.066	(0.579)	5463204	200.000	200
12	Acetonitrile	40	4.178	4.145	(0.595)	1112868	2000.00	2000
13	Allyl Chloride	76	4.184	4.194	(0.596)	2514307	200.000	200
20	2-Chloro-1,3-Butadiene	53	5.200	5.197	(0.740)	2869519	200.000	200

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021224.B\V6C4106.D
Report Date: 03-Jan-2003 12:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	112 Methyl Acetate	43	4.221	4.212	(0.601)	1253134	200.000	200
	14 Methylene Chloride	84	4.324	4.327	(0.616)	2196930	200.000	200
	15 Acrylonitrile	53	4.586	4.583	(0.653)	2802612	1000.00	1000
	16 trans-1,2-Dichloroethene	96	4.635	4.638	(0.660)	2260799	200.000	200
	17 Methyl tert-butyl ether	73	4.641	4.644	(0.661)	5313670	200.000	200
	18 1,1-Dichloroethane	63	5.091	5.094	(0.725)	3632832	200.000	200
	19 Vinyl acetate	43	5.133	5.136	(0.731)	3386281	200.000	200
	22 2-Butanone	43	5.735	5.726	(0.816)	643256	200.000	200
	23 cis-1,2-Dichloroethene	96	5.729	5.732	(0.816)	2422247	200.000	200
	24 2,2-Dichloropropane	77	5.735	5.732	(0.816)	1813094	200.000	200
	26 Propionitrile	54	5.790	5.791	(0.824)	2155342	2000.00	2000
	28 Methacrylonitrile	41	5.960	5.957	(0.848)	8650840	2000.00	2000
	29 Bromochloromethane	128	5.991	5.994	(0.853)	1129263	200.000	200
	25 Tetrahydrofuran	72	6.064	6.061	(0.863)	221098	200.000	200
	28 Chloroform	83	6.076	6.073	(0.865)	3485442	200.000	200
S	30 Dibromofluoromethane	113	6.252	6.249	(0.890)	1886013	200.000	200
	31 1,1,1-Trichloroethane	97	6.301	6.304	(0.897)	2456261	200.000	200
	113 Cyclohexane	56	6.346	6.343	(0.909)	3423867	200.000	200
	32 1,1-Dichloropropene	110	6.483	6.486	(0.923)	1079920	200.000	200
	33 Carbon Tetrachloride	117	6.495	6.492	(0.925)	2429842	200.000	200
	34 Isobutyl Alcohol	43	6.593	6.590	(0.939)	1068260	4000.00	4000
S	35 1,2-Dichloroethane-d4	102	6.635	6.638	(0.945)	504477	200.000	200
	37 Benzene	78	6.720	6.717	(0.957)	8410116	200.000	200
	36 1,2-Dichloroethane	62	6.720	6.717	(0.957)	2520368	200.000	200
H	21 1,2-Dichloroethene (Total)	96				4682048	400.000	400
*	38 Fluorobenzene	96	7.024	7.021	(1.000)	2091756	50.0000	
	39 Trichloroethene	130	7.456	7.453	(1.061)	2275067	200.000	200
	114 Methylcyclohexane	83	7.699	7.702	(1.096)	3985527	200.000	200
	40 1,2-Dichloropropane	63	7.706	7.709	(1.097)	2278574	200.000	200
	41 Methyl Methacrylate	69	7.821	7.824	(1.113)	1193566	200.000	200
	42 Dibromomethane	93	7.846	7.848	(1.117)	1269190	200.000	200
	43 Bromodichloromethane	83	8.028	8.025	(1.143)	2769262	200.000	200
	44 2-Chloroethyl vinyl ether	63	8.368	8.371	(1.191)	952230	200.000	200
	45 cis-1,3-Dichloropropene	75	8.569	8.566	(1.220)	3674202	200.000	200
	46 4-Methyl-2-pentanone	43	8.739	8.742	(1.244)	1420888	200.000	200
S	47 Toluene-d8	98	8.916	8.919	(0.828)	7253377	200.000	200
	48 Toluene	91	8.901	8.898	(1.281)	8180003	200.000	200
	49 trans-1,3-Dichloropropene	75	9.250	9.253	(1.317)	3177246	200.000	200
	50 Ethyl Methacrylate	69	9.256	9.257	(1.332)	2619826	200.000	200
	51 1,1,2-Trichloroethane	97	9.487	9.484	(1.352)	1873969	200.000	200
	53 Tetrachloroethene	164	9.712	9.709	(0.902)	1795588	200.000	200
	52 1,3-Dichloropropane	76	9.706	9.709	(0.902)	3359227	200.000	200
	54 2-Hexanone	43	9.798	9.801	(0.910)	967124	200.000	200
	55 Dibromochloromethane	129	10.010	10.007	(0.930)	2056521	200.000	200
	56 1,2-Dibromoethane	107	10.169	10.172	(0.945)	1867120	200.000	200
	115 1-Chlorohexane	91	10.758	10.755	(0.999)	3256921	200.000	200
*	57 Chlorobenzene-d5	117	10.765	10.767	(1.000)	1657503	50.0000	

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021224.B\V6C4106.D
Report Date: 03-Jan-2003 12:19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	58 Chlorobenzene	112	10.801	10.804	(1.003)	6109133	200.000	200
	59 1,1,1,2-Tetrachloroethane	131	10.898	10.901	(1.012)	2152637	200.000	200
	60 Ethylbenzene	106	10.935	10.932	(1.016)	3572347	200.000	200
	61 m,p-Xylene	106	11.081	11.084	(1.029)	8355831	400.000	400(A)
	62 o-Xylene	106	11.579	11.576	(1.076)	4464658	200.000	200
	64 Styrene	104	11.592	11.586	(1.077)	6791647	200.000	200
	65 Bromoform	173	11.817	11.820	(1.098)	1181699	200.000	200
	66 Isopropylbenzene	105	12.029	12.026	(1.118)	8821627	200.000	200
	67 trans-1,4-Dichloro-2-butene	75	12.090	12.087	(1.123)	789961	200.000	200
S	68 Bromofluorobenzene	95	12.212	12.215	(1.134)	2910048	200.000	200
	69 1,1,2,2-Tetrachloroethane	83	12.370	12.373	(0.910)	2293143	200.000	200
	70 Bromobenzene	156	12.406	12.403	(0.913)	2509631	200.000	200
	71 1,2,3-Trichloropropane	75	12.431	12.428	(0.915)	2821800	200.000	200
	72 n-Propylbenzene	120	12.528	12.525	(0.922)	3070383	200.000	200
	73 2-Chlorotoluene	126	12.638	12.634	(0.930)	2615324	200.000	200
	74 1,3,5-Trimethylbenzene	105	12.735	12.732	(0.937)	7757284	200.000	200
	75 4-Chlorotoluene	126	12.765	12.762	(0.940)	2790588	200.000	200
H	63 Xylene (Total)	106				12820489	600.000	600
	76 tert-Butylbenzene	119	13.324	13.327	(0.966)	6953572	200.000	200
	77 1,2,4-Trimethylbenzene	105	13.379	13.376	(0.970)	7846746	200.000	200
	78 sec-Butylbenzene	105	13.379	13.376	(0.985)	9388961	200.000	200
	80 1,3-Dichlorobenzene	146	13.513	13.510	(0.995)	4658510	200.000	200
	79 4-Isopropyltoluene	119	13.544	13.541	(0.997)	8028256	200.000	200
*	81 1,4-Dichlorobenzene-d4	152	13.586	13.583	(1.000)	787823	50.0000	
	82 1,4-Dichlorobenzene	146	13.617	13.614	(1.002)	4567289	200.000	200
	83 n-Butylbenzene	91	14.012	14.009	(1.031)	7459207	200.000	200
	84 1,2-Dichlorobenzene	146	14.042	14.039	(1.034)	4375728	200.000	200
	85 Hexachlorethane	117	14.346	14.343	(1.056)	1580285	200.000	200
	86 1,2-Dibromo-3-chloropropane	75	14.900	14.903	(1.097)	335259	200.000	200
	87 1,2,4-Trichlorobenzene	180	15.824	15.821	(1.165)	2897376	200.000	200
	88 Hexachlorobutadiene	225	16.013	16.004	(1.179)	1323828	200.000	200
	89 Naphthalene	128	16.092	16.089	(1.184)	5613356	200.000	200
	90 1,2,3-Trichlorobenzene	180	16.353	16.350	(1.204)	2423241	200.000	200(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

SB 1/3/03

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: V1 Calibration Date: 12/30/02 Time: 1020

Lab File ID: V1F1871 Init. Calib. Date(s): 12/30/02 12/30/02

Heated Purge: (Y/N) Y Init. Calib. Times: 1020 1223

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.292	0.307	0.01	5.1	20.0
Chloromethane	0.563	0.538	0.1	4.4	20.0
Vinyl Chloride	0.420	0.417	0.01	0.7	20.0
Bromomethane	0.147	0.147	0.01	0.0	20.0
Chloroethane	0.196	0.207	0.01	5.6	20.0
Trichlorofluoromethane	0.344	0.354	0.01	2.9	20.0
1,1-Dichloroethene	0.365	0.372	0.01	1.9	20.0
Acetone	0.157	0.132	0.01	15.9	20.0
Methylene Chloride	0.458	0.410	0.01	10.5	20.0
trans-1,2-Dichloroethene	0.313	0.315	0.01	0.6	20.0
Methyl tert-butyl ether	0.464	0.497	0.01	7.1	20.0
1,1-Dichloroethane	0.555	0.559	0.1	0.7	20.0
2-Butanone	0.217	0.205	0.01	5.5	20.0
cis-1,2-Dichloroethene	0.322	0.318	0.01	1.2	20.0
2,2-Dichloropropane	0.303	0.314	0.01	3.6	20.0
Bromochloromethane	0.180	0.175	0.01	2.8	20.0
Chloroform	0.550	0.556	0.01	1.1	20.0
Tetrahydrofuran	0.047	0.047	0.001	0.0	20.0
1,1,1-Trichloroethane	0.379	0.390	0.01	2.9	20.0
1,1-Dichloropropene	0.128	0.130	0.01	1.6	20.0
Carbon Tetrachloride	0.331	0.338	0.01	2.1	20.0
1,2-Dichloroethane	0.441	0.437	0.01	0.9	20.0
Benzene	1.191	1.188	0.01	0.2	20.0
Trichloroethene	0.278	0.276	0.01	0.7	20.0
1,2-Dichloropropane	0.315	0.310	0.01	1.6	20.0
Dibromomethane	0.219	0.212	0.01	3.2	20.0
Bromodichloromethane	0.437	0.432	0.01	1.1	20.0
cis-1,3-Dichloropropene	0.520	0.515	0.01	1.0	20.0
4-Methyl-2-pentanone	0.412	0.398	0.01	3.4	20.0
Toluene	1.164	1.162	0.01	0.2	20.0
trans-1,3-Dichloropropene	0.472	0.473	0.01	0.2	20.0
1,1,2-Trichloroethane	0.267	0.258	0.01	3.4	20.0
1,3-Dichloropropane	0.685	0.686	0.01	0.1	20.0
Tetrachloroethene	0.345	0.346	0.01	0.3	20.0
2-Hexanone	0.406	0.412	0.01	1.5	20.0
Dibromochloromethane	0.460	0.458	0.01	0.4	20.0
1,2-Dibromoethane	0.405	0.408	0.01	0.7	20.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: V1 Calibration Date: 12/30/02 Time: 1020

Lab File ID: V1F1871 Init. Calib. Date(s): 12/30/02 12/30/02

Heated Purge: (Y/N) Y Init. Calib. Times: 1020 1223

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chlorobenzene	1.110	1.085	0.3	2.2	20.0
1,1,1,2-Tetrachloroethane	0.383	0.379	0.01	1.0	20.0
Ethylbenzene	0.536	0.538	0.01	0.4	20.0
m,p-Xylene	0.725	0.712	0.01	1.8	20.0
o-Xylene	0.705	0.690	0.01	2.1	20.0
Xylene (Total)	0.718	0.704	0.01	1.9	20.0
Styrene	1.156	1.165	0.01	0.8	20.0
Bromoform	0.346	0.339	0.1	2.0	20.0
Isopropylbenzene	1.646	1.642	0.01	0.2	20.0
1,1,2,2-Tetrachloroethane	1.093	1.016	0.3	7.0	20.0
Bromobenzene	0.874	0.836	0.01	4.3	20.0
1,2,3-Trichloropropane	1.071	1.079	0.01	0.7	20.0
n-Propylbenzene	0.759	0.754	0.01	0.6	20.0
2-Chlorotoluene	0.717	0.697	0.01	2.8	20.0
1,3,5-Trimethylbenzene	2.523	2.472	0.01	2.0	20.0
4-Chlorotoluene	0.787	0.770	0.01	2.2	20.0
tert-Butylbenzene	2.457	2.362	0.01	3.9	20.0
1,2,4-Trimethylbenzene	2.518	2.428	0.01	3.6	20.0
sec-Butylbenzene	3.246	3.190	0.01	1.7	20.0
4-Isopropyltoluene	2.559	2.518	0.01	1.6	20.0
1,3-Dichlorobenzene	1.494	1.415	0.01	5.3	20.0
1,4-Dichlorobenzene	1.641	1.551	0.01	5.5	20.0
n-Butylbenzene	2.747	2.772	0.01	0.9	20.0
1,2-Dichlorobenzene	1.547	1.433	0.01	7.4	20.0
1,2-Dibromo-3-chloropropane	0.200	0.183	0.01	8.5	20.0
1,2,4-Trichlorobenzene	0.956	0.900	0.01	5.8	20.0
Hexachlorobutadiene	0.437	0.424	0.01	3.0	20.0
Naphthalene	2.370	1.995	0.01	15.8	20.0
1,2,3-Trichlorobenzene	0.916	0.810	0.01	11.6	20.0
1-Chlorohexane	0.623	0.602	0.01	3.4	20.0
Acrylonitrile	0.141	0.133	0.01	5.7	20.0
Dibromofluoromethane	0.278	0.271	0.01	2.5	20.0
1,2-Dichloroethane-d4	0.066	0.064	0.01	3.0	20.0
Toluene-d8	1.292	1.279	0.01	1.0	20.0
Bromofluorobenzene	0.534	0.521	0.01	2.4	20.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: V1 Calibration Date: 12/31/02 Time: 0941

Lab File ID: V1F1901 Init. Calib. Date(s): 12/30/02 12/30/02

Heated Purge: (Y/N) Y Init. Calib. Times: 1020 1223

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D	
Dichlorodifluoromethane	0.292	0.264	0.01	9.6	20.0	
Chloromethane	0.563	0.562	0.1	0.2	20.0	
Vinyl Chloride	0.420	0.409	0.01	2.6	20.0	
Bromomethane	0.147	0.123	0.01	16.3	20.0	
Chloroethane	0.196	0.166	0.01	15.3	20.0	
Trichlorofluoromethane	0.344	0.324	0.01	5.8	20.0	
1,1-Dichloroethene	0.365	0.376	0.01	3.0	20.0	
Acetone	0.157	0.168	0.01	7.0	20.0	
Methylene Chloride	0.458	0.596	0.01	30.1	20.0	<-
trans-1,2-Dichloroethene	0.313	0.306	0.01	2.2	20.0	
Methyl tert-butyl ether	0.464	0.411	0.01	11.4	20.0	
1,1-Dichloroethane	0.555	0.578	0.1	4.1	20.0	
2-Butanone	0.217	0.254	0.01	17.0	20.0	
cis-1,2-Dichloroethene	0.322	0.316	0.01	1.9	20.0	
2,2-Dichloropropane	0.303	0.272	0.01	10.2	20.0	
Bromochloromethane	0.180	0.182	0.01	1.1	20.0	
Chloroform	0.550	0.568	0.01	3.3	20.0	
Tetrahydrofuran	0.047	0.056	0.001	19.1	20.0	
1,1,1-Trichloroethane	0.379	0.362	0.01	4.5	20.0	
1,1-Dichloropropene	0.128	0.126	0.01	1.6	20.0	
Carbon Tetrachloride	0.331	0.323	0.01	2.4	20.0	
1,2-Dichloroethane	0.441	0.477	0.01	8.2	20.0	
Benzene	1.191	1.221	0.01	2.5	20.0	
Trichloroethene	0.278	0.273	0.01	1.8	20.0	
1,2-Dichloropropane	0.315	0.327	0.01	3.8	20.0	
Dibromomethane	0.219	0.232	0.01	5.9	20.0	
Bromodichloromethane	0.437	0.458	0.01	4.8	20.0	
cis-1,3-Dichloropropene	0.520	0.544	0.01	4.6	20.0	
4-Methyl-2-pentanone	0.412	0.479	0.01	16.3	20.0	
Toluene	1.164	1.175	0.01	0.9	20.0	
trans-1,3-Dichloropropene	0.472	0.512	0.01	8.5	20.0	
1,1,2-Trichloroethane	0.267	0.278	0.01	4.1	20.0	
1,3-Dichloropropane	0.685	0.737	0.01	7.6	20.0	
Tetrachloroethene	0.345	0.332	0.01	3.8	20.0	
2-Hexanone	0.406	0.491	0.01	20.9	20.0	<-
Dibromochloromethane	0.460	0.470	0.01	2.2	20.0	
1,2-Dibromoethane	0.405	0.433	0.01	6.9	20.0	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: V1 Calibration Date: 12/31/02 Time: 0941

Lab File ID: V1F1901 Init. Calib. Date(s): 12/30/02 12/30/02

Heated Purge: (Y/N) Y Init. Calib. Times: 1020 1223

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chlorobenzene	1.110	1.080	0.3	2.7	20.0
1,1,1,2-Tetrachloroethane	0.383	0.376	0.01	1.8	20.0
Ethylbenzene	0.536	0.531	0.01	0.9	20.0
m,p-Xylene	0.725	0.723	0.01	0.3	20.0
o-Xylene	0.705	0.705	0.01	0.0	20.0
Xylene (Total)	0.718	0.717	0.01	0.1	20.0
Styrene	1.156	1.221	0.01	5.6	20.0
Bromoform	0.346	0.364	0.1	5.2	20.0
Isopropylbenzene	1.646	1.630	0.01	1.0	20.0
1,1,2,2-Tetrachloroethane	1.093	1.112	0.3	1.7	20.0
Bromobenzene	0.874	0.835	0.01	4.5	20.0
1,2,3-Trichloropropane	1.071	1.165	0.01	8.8	20.0
n-Propylbenzene	0.759	0.729	0.01	4.0	20.0
2-Chlorotoluene	0.717	0.682	0.01	4.9	20.0
1,3,5-Trimethylbenzene	2.523	2.415	0.01	4.3	20.0
4-Chlorotoluene	0.787	0.743	0.01	5.6	20.0
tert-Butylbenzene	2.457	2.291	0.01	6.8	20.0
1,2,4-Trimethylbenzene	2.518	2.445	0.01	2.9	20.0
sec-Butylbenzene	3.246	3.071	0.01	5.4	20.0
4-Isopropyltoluene	2.559	2.434	0.01	4.9	20.0
1,3-Dichlorobenzene	1.494	1.414	0.01	5.4	20.0
1,4-Dichlorobenzene	1.641	1.533	0.01	6.6	20.0
n-Butylbenzene	2.747	2.707	0.01	1.4	20.0
1,2-Dichlorobenzene	1.547	1.444	0.01	6.6	20.0
1,2-Dibromo-3-chloropropane	0.200	0.213	0.01	6.5	20.0
1,2,4-Trichlorobenzene	0.956	0.918	0.01	4.0	20.0
Hexachlorobutadiene	0.437	0.415	0.01	5.0	20.0
Naphthalene	2.370	2.301	0.01	2.9	20.0
1,2,3-Trichlorobenzene	0.916	0.870	0.01	5.0	20.0
1-Chlorohexane	0.623	0.586	0.01	5.9	20.0
Acrylonitrile	0.141	0.157	0.01	11.3	20.0
Dibromofluoromethane	0.278	0.282	0.01	1.4	20.0
1,2-Dichloroethane-d4	0.066	0.069	0.01	4.5	20.0
Toluene-d8	1.292	1.268	0.01	1.8	20.0
Bromofluorobenzene	0.534	0.544	0.01	1.9	20.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: V6 Calibration Date: 12/29/02 Time: 1513

Lab File ID: V6C4181 Init. Calib. Date(s): 12/24/02 12/24/02

Heated Purge: (Y/N) N Init. Calib. Times: 1444 1754

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.202	0.202	0.01	0.0	20.0
Chloromethane	0.338	0.314	0.1	7.1	20.0
Vinyl Chloride	0.335	0.301	0.01	10.1	20.0
Bromomethane	0.168	0.166	0.01	1.2	20.0
Chloroethane	0.164	0.168	0.01	2.4	20.0
Trichlorofluoromethane	0.353	0.289	0.01	18.1	20.0
1,1-Dichloroethene	0.280	0.263	0.01	6.1	20.0
Acetone	0.055	0.046	0.01	16.4	20.0
Methylene Chloride	0.275	0.280	0.01	1.8	20.0
Acrylonitrile	0.068	0.066	0.001	2.9	20.0
trans-1,2-Dichloroethene	0.266	0.256	0.01	3.8	20.0
Methyl tert-butyl ether	0.627	0.652	0.01	4.0	20.0
1,1-Dichloroethane	0.446	0.401	0.1	10.1	20.0
2-Butanone	0.080	0.072	0.01	10.0	20.0
cis-1,2-Dichloroethene	0.288	0.297	0.01	3.1	20.0
2,2-Dichloropropane	0.219	0.184	0.01	16.0	20.0
Bromochloromethane	0.134	0.150	0.01	11.9	20.0
Chloroform	0.432	0.417	0.01	3.5	20.0
Tetrahydrofuran	0.024	0.026	0.001	8.3	20.0
1,1,1-Trichloroethane	0.305	0.273	0.01	10.5	20.0
1,1-Dichloropropene	0.124	0.123	0.01	0.8	20.0
Carbon Tetrachloride	0.281	0.269	0.01	4.3	20.0
1,2-Dichloroethane	0.313	0.291	0.01	7.0	20.0
Benzene	1.068	1.031	0.01	3.5	20.0
Trichloroethene	0.271	0.287	0.01	5.9	20.0
1,2-Dichloropropane	0.274	0.260	0.01	5.1	20.0
Dibromomethane	0.151	0.154	0.01	2.0	20.0
Bromodichloromethane	0.332	0.341	0.01	2.7	20.0
cis-1,3-Dichloropropene	0.427	0.439	0.01	2.8	20.0
4-Methyl-2-pentanone	0.162	0.148	0.01	8.6	20.0
Toluene	1.120	1.167	0.01	4.2	20.0
trans-1,3-Dichloropropene	0.362	0.382	0.01	5.5	20.0
1,1,2-Trichloroethane	0.224	0.239	0.01	6.7	20.0
1,3-Dichloropropane	0.512	0.480	0.01	6.2	20.0
Tetrachloroethene	0.271	0.269	0.01	0.7	20.0
2-Hexanone	0.137	0.116	0.01	15.3	20.0
Dibromochloromethane	0.305	0.331	0.01	8.5	20.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: V6 Calibration Date: 12/29/02 Time: 1513

Lab File ID: V6C4181 Init. Calib. Date(s): 12/24/02 12/24/02

Heated Purge: (Y/N) N Init. Calib. Times: 1444 1754

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D	
1,2-Dibromoethane	0.283	0.295	0.01	4.2	20.0	
Chlorobenzene	0.997	1.001	0.3	0.4	20.0	
1,1,1,2-Tetrachloroethane	0.328	0.337	0.01	2.7	20.0	
Ethylbenzene	0.540	0.512	0.01	5.2	20.0	
m,p-Xylene	0.656	0.622	0.01	5.2	20.0	
o-Xylene	0.656	0.642	0.01	2.1	20.0	
Xylene (Total)	0.656	0.629	0.01	4.1	20.0	
Styrene	1.077	1.090	0.01	1.2	20.0	
Bromoform	0.172	0.210	0.1	22.1	20.0	<-
Isopropylbenzene	1.460	1.417	0.01	2.9	20.0	
1,1,2,2-Tetrachloroethane	0.738	0.626	0.3	15.2	20.0	
Bromobenzene	0.797	0.797	0.01	0.0	20.0	
1,2,3-Trichloropropane	0.872	0.781	0.01	10.4	20.0	
n-Propylbenzene	0.941	0.821	0.01	12.8	20.0	
2-Chlorotoluene	0.829	0.750	0.01	9.5	20.0	
1,3,5-Trimethylbenzene	2.612	2.319	0.01	11.2	20.0	
4-Chlorotoluene	0.864	0.787	0.01	8.9	20.0	
tert-Butylbenzene	2.919	2.673	0.01	8.4	20.0	
1,2,4-Trimethylbenzene	2.681	2.446	0.01	8.8	20.0	
sec-Butylbenzene	3.360	2.918	0.01	13.2	20.0	
4-Isopropyltoluene	2.757	2.489	0.01	9.7	20.0	
1,3-Dichlorobenzene	1.538	1.495	0.01	2.8	20.0	
1,4-Dichlorobenzene	1.558	1.520	0.01	2.4	20.0	
n-Butylbenzene	2.596	2.215	0.01	14.7	20.0	
1,2-Dichlorobenzene	1.455	1.426	0.01	2.0	20.0	
1,2-Dibromo-3-chloropropane	0.107	0.094	0.01	12.1	20.0	
1,2,4-Trichlorobenzene	0.917	1.023	0.01	11.6	20.0	
Hexachlorobutadiene	0.414	0.413	0.01	0.2	20.0	
Naphthalene	1.904	1.944	0.01	2.1	20.0	
1,2,3-Trichlorobenzene	0.799	0.857	0.01	7.2	20.0	
1-Chlorohexane	0.486	0.418	0.01	14.0	20.0	
Dibromofluoromethane	0.224	0.245	0.01	9.4	20.0	
1,2-Dichloroethane-d4	0.060	0.066	0.01	10.0	20.0	
Toluene-d8	1.211	1.187	0.01	2.0	20.0	
Bromofluorobenzene	0.441	0.442	0.01	0.2	20.0	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: V6 Calibration Date: 12/31/02 Time: 1012

Lab File ID: V6C4241 Init. Calib. Date(s): 12/24/02 12/24/02

Heated Purge: (Y/N) N Init. Calib. Times: 1444 1754

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D	
Dichlorodifluoromethane	0.202	0.216	0.01	6.9	20.0	
Chloromethane	0.338	0.382	0.1	13.0	20.0	
Vinyl Chloride	0.335	0.358	0.01	6.9	20.0	
Bromomethane	0.168	0.233	0.01	38.7	20.0	<-
Chloroethane	0.164	0.208	0.01	26.8	20.0	<-
Trichlorofluoromethane	0.353	0.370	0.01	4.8	20.0	
1,1-Dichloroethene	0.280	0.268	0.01	4.3	20.0	
Acetone	0.055	0.042	0.01	23.6	20.0	<-
Methylene Chloride	0.275	0.258	0.01	6.2	20.0	
Acrylonitrile	0.068	0.053	0.001	22.0	20.0	<-
trans-1,2-Dichloroethene	0.266	0.266	0.01	0.0	20.0	
Methyl tert-butyl ether	0.627	0.609	0.01	2.9	20.0	
1,1-Dichloroethane	0.446	0.434	0.1	2.7	20.0	
2-Butanone	0.080	0.067	0.01	16.2	20.0	
cis-1,2-Dichloroethene	0.288	0.292	0.01	1.4	20.0	
2,2-Dichloropropane	0.219	0.249	0.01	13.7	20.0	
Bromochloromethane	0.134	0.130	0.01	3.0	20.0	
Chloroform	0.432	0.423	0.01	2.1	20.0	
Tetrahydrofuran	0.024	0.021	0.001	12.5	20.0	
1,1,1-Trichloroethane	0.305	0.320	0.01	4.9	20.0	
1,1-Dichloropropene	0.124	0.129	0.01	4.0	20.0	
Carbon Tetrachloride	0.281	0.292	0.01	3.9	20.0	
1,2-Dichloroethane	0.313	0.278	0.01	11.2	20.0	
Benzene	1.068	1.072	0.01	0.4	20.0	
Trichloroethene	0.271	0.281	0.01	3.7	20.0	
1,2-Dichloropropane	0.274	0.265	0.01	3.3	20.0	
Dibromomethane	0.151	0.136	0.01	9.9	20.0	
Bromodichloromethane	0.332	0.318	0.01	4.2	20.0	
cis-1,3-Dichloropropene	0.427	0.422	0.01	1.2	20.0	
4-Methyl-2-pentanone	0.162	0.141	0.01	13.0	20.0	
Toluene	1.120	1.176	0.01	5.0	20.0	
trans-1,3-Dichloropropene	0.362	0.349	0.01	3.6	20.0	
1,1,2-Trichloroethane	0.224	0.206	0.01	8.0	20.0	
1,3-Dichloropropane	0.512	0.459	0.01	10.4	20.0	
Tetrachloroethene	0.271	0.276	0.01	1.8	20.0	
2-Hexanone	0.137	0.115	0.01	16.0	20.0	
Dibromochloromethane	0.305	0.290	0.01	4.9	20.0	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: V6 Calibration Date: 12/31/02 Time: 1012

Lab File ID: V6C4241 Init. Calib. Date(s): 12/24/02 12/24/02

Heated Purge: (Y/N) N Init. Calib. Times: 1444 1754

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D	
1,2-Dibromoethane	0.283	0.254	0.01	10.2	20.0	
Chlorobenzene	0.997	1.006	0.3	0.9	20.0	
1,1,1,2-Tetrachloroethane	0.328	0.330	0.01	0.6	20.0	
Ethylbenzene	0.540	0.545	0.01	0.9	20.0	
m,p-Xylene	0.656	0.676	0.01	3.0	20.0	
o-Xylene	0.656	0.661	0.01	0.8	20.0	
Xylene (Total)	0.656	0.671	0.01	2.3	20.0	
Styrene	1.077	1.105	0.01	2.6	20.0	
Bromoform	0.172	0.165	0.1	4.1	20.0	
Isopropylbenzene	1.460	1.563	0.01	7.0	20.0	
1,1,2,2-Tetrachloroethane	0.738	0.622	0.3	15.7	20.0	
Bromobenzene	0.797	0.808	0.01	1.4	20.0	
1,2,3-Trichloropropane	0.872	0.766	0.01	12.2	20.0	
n-Propylbenzene	0.941	0.966	0.01	2.6	20.0	
2-Chlorotoluene	0.829	0.841	0.01	1.4	20.0	
1,3,5-Trimethylbenzene	2.612	2.751	0.01	5.3	20.0	
4-Chlorotoluene	0.864	0.878	0.01	1.6	20.0	
tert-Butylbenzene	2.919	3.078	0.01	5.4	20.0	
1,2,4-Trimethylbenzene	2.681	2.806	0.01	4.7	20.0	
sec-Butylbenzene	3.360	3.649	0.01	8.6	20.0	
4-Isopropyltoluene	2.757	2.973	0.01	7.8	20.0	
1,3-Dichlorobenzene	1.538	1.594	0.01	3.6	20.0	
1,4-Dichlorobenzene	1.558	1.608	0.01	3.2	20.0	
n-Butylbenzene	2.596	2.822	0.01	8.7	20.0	
1,2-Dichlorobenzene	1.455	1.471	0.01	1.1	20.0	
1,2-Dibromo-3-chloropropane	0.107	0.085	0.01	20.6	20.0	<-
1,2,4-Trichlorobenzene	0.917	0.930	0.01	1.4	20.0	
Hexachlorobutadiene	0.414	0.452	0.01	9.2	20.0	
Naphthalene	1.904	1.653	0.01	13.2	20.0	
1,2,3-Trichlorobenzene	0.799	0.773	0.01	3.2	20.0	
1-Chlorohexane	0.486	0.528	0.01	8.6	20.0	
Dibromofluoromethane	0.224	0.228	0.01	1.8	20.0	
1,2-Dichloroethane-d4	0.060	0.056	0.01	6.7	20.0	
Toluene-d8	1.211	1.234	0.01	1.9	20.0	
Bromofluorobenzene	0.441	0.433	0.01	1.8	20.0	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: V1 Calibration Date: 12/30/02 Time: 1020

Lab File ID: V1F1871 Init. Calib. Date(s): 12/30/02 12/30/02

Heated Purge: (Y/N) Y Init. Calib. Times: 1020 1223

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.292	0.307	0.01	5.1	20.0
Chloromethane	0.563	0.538	0.1	4.4	20.0
Vinyl Chloride	0.420	0.417	0.01	0.7	20.0
Bromomethane	0.147	0.147	0.01	0.0	20.0
Chloroethane	0.196	0.207	0.01	5.6	20.0
Trichlorofluoromethane	0.344	0.354	0.01	2.9	20.0
1,1-Dichloroethene	0.365	0.372	0.01	1.9	20.0
Acetone	0.157	0.132	0.01	15.9	20.0
Methylene Chloride	0.458	0.410	0.01	10.5	20.0
trans-1,2-Dichloroethene	0.313	0.315	0.01	0.6	20.0
Methyl tert-butyl ether	0.464	0.497	0.01	7.1	20.0
1,1-Dichloroethane	0.555	0.559	0.1	0.7	20.0
2-Butanone	0.217	0.205	0.01	5.5	20.0
cis-1,2-Dichloroethene	0.322	0.318	0.01	1.2	20.0
2,2-Dichloropropane	0.303	0.314	0.01	3.6	20.0
Bromochloromethane	0.180	0.175	0.01	2.8	20.0
Chloroform	0.550	0.556	0.01	1.1	20.0
Tetrahydrofuran	0.047	0.047	0.001	0.0	20.0
1,1,1-Trichloroethane	0.379	0.390	0.01	2.9	20.0
1,1-Dichloropropene	0.128	0.130	0.01	1.6	20.0
Carbon Tetrachloride	0.331	0.338	0.01	2.1	20.0
1,2-Dichloroethane	0.441	0.437	0.01	0.9	20.0
Benzene	1.191	1.188	0.01	0.2	20.0
Trichloroethene	0.278	0.276	0.01	0.7	20.0
1,2-Dichloropropane	0.315	0.310	0.01	1.6	20.0
Dibromomethane	0.219	0.212	0.01	3.2	20.0
Bromodichloromethane	0.437	0.432	0.01	1.1	20.0
cis-1,3-Dichloropropene	0.520	0.515	0.01	1.0	20.0
4-Methyl-2-pentanone	0.412	0.398	0.01	3.4	20.0
Toluene	1.164	1.162	0.01	0.2	20.0
trans-1,3-Dichloropropene	0.472	0.473	0.01	0.2	20.0
1,1,2-Trichloroethane	0.267	0.258	0.01	3.4	20.0
1,3-Dichloropropane	0.685	0.686	0.01	0.1	20.0
Tetrachloroethene	0.345	0.346	0.01	0.3	20.0
2-Hexanone	0.406	0.412	0.01	1.5	20.0
Dibromochloromethane	0.460	0.458	0.01	0.4	20.0
1,2-Dibromoethane	0.405	0.408	0.01	0.7	20.0

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

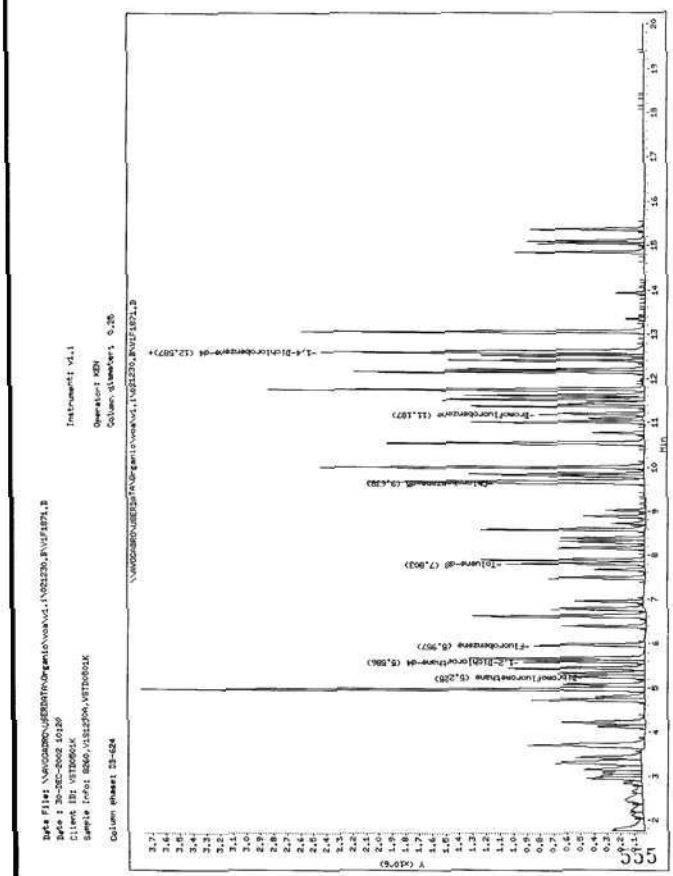
Instrument ID: V1 Calibration Date: 12/30/02 Time: 1020

Lab File ID: V1F1871 Init. Calib. Date(s): 12/30/02 12/30/02

Heated Purge: (Y/N) Y Init. Calib. Times: 1020 1223

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chlorobenzene	1.110	1.085	0.3	2.2	20.0
1,1,1,2-Tetrachloroethane	0.383	0.379	0.01	1.0	20.0
Ethylbenzene	0.536	0.538	0.01	0.4	20.0
m,p-Xylene	0.725	0.712	0.01	1.8	20.0
o-Xylene	0.705	0.690	0.01	2.1	20.0
Xylene (Total)	0.718	0.704	0.01	1.9	20.0
Styrene	1.156	1.165	0.01	0.8	20.0
Bromoform	0.346	0.339	0.1	2.0	20.0
Isopropylbenzene	1.646	1.642	0.01	0.2	20.0
1,1,2,2-Tetrachloroethane	1.093	1.016	0.3	7.0	20.0
Bromobenzene	0.874	0.836	0.01	4.3	20.0
1,2,3-Trichloropropane	1.071	1.079	0.01	0.7	20.0
n-Propylbenzene	0.759	0.754	0.01	0.6	20.0
2-Chlorotoluene	0.717	0.697	0.01	2.8	20.0
1,3,5-Trimethylbenzene	2.523	2.472	0.01	2.0	20.0
4-Chlorotoluene	0.787	0.770	0.01	2.2	20.0
tert-Butylbenzene	2.457	2.362	0.01	3.9	20.0
1,2,4-Trimethylbenzene	2.518	2.428	0.01	3.6	20.0
sec-Butylbenzene	3.246	3.190	0.01	1.7	20.0
4-Isopropyltoluene	2.559	2.518	0.01	1.6	20.0
1,3-Dichlorobenzene	1.494	1.415	0.01	5.3	20.0
1,4-Dichlorobenzene	1.641	1.551	0.01	5.5	20.0
n-Butylbenzene	2.747	2.772	0.01	0.9	20.0
1,2-Dichlorobenzene	1.547	1.433	0.01	7.4	20.0
1,2-Dibromo-3-chloropropane	0.200	0.183	0.01	8.5	20.0
1,2,4-Trichlorobenzene	0.956	0.900	0.01	5.8	20.0
Hexachlorobutadiene	0.437	0.424	0.01	3.0	20.0
Naphthalene	2.370	1.995	0.01	15.8	20.0
1,2,3-Trichlorobenzene	0.916	0.810	0.01	11.6	20.0
1-Chlorohexane	0.623	0.602	0.01	3.4	20.0
Acrylonitrile	0.141	0.133	0.01	5.7	20.0
Dibromofluoromethane	0.278	0.271	0.01	2.5	20.0
1,2-Dichloroethane-d4	0.066	0.064	0.01	3.0	20.0
Toluene-d8	1.292	1.279	0.01	1.0	20.0
Bromofluorobenzene	0.534	0.521	0.01	2.4	20.0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1871.D
Report Date: 09-Jan-2003 14:57

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1871.D
Lab Smp Id: V1S1230A Client Smp ID: VSTD0501K
Inj Date : 30-DEC-2002 10:20
Operator : KEN Inst ID: v1.i
Smp Info : 8260,V1S1230A,VSTD0501K
Misc Info : ,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 13:23 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 10:20 Cal File: V1F1871.D
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET6

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1	Dichlorodifluoromethane	85	1.502	1.502	(0.252)	288184	50.0000	50
2	Chloromethane	50	1.672	1.672	(0.281)	595450	50.0000	50
3	Vinyl Chloride	62	1.788	1.788	(0.300)	391708	50.0000	50
4	Bromomethane	94	2.117	2.117	(0.355)	138550	50.0000	50
5	Chloroethane	64	2.223	2.223	(0.373)	194723	50.0000	50
6	Trichlorofluoromethane	101	2.435	2.435	(0.409)	332762	50.0000	50
8	1,1-Dichloroethene	96	2.934	2.934	(0.493)	349989	50.0000	50
9	Acetone	43	2.998	2.998	(0.503)	124153	50.0000	50
111	1,1,2-Trichlo-1,2,2-trifluoro	101	2.998	2.998	(0.503)	317375	50.0000	50
10	Iodomethane	142	3.072	3.072	(0.516)	430471	50.0000	50
11	Carbon Disulfide	76	3.135	3.135	(0.526)	1970625	50.0000	50
112	Methyl Acetate	43	3.326	3.326	(0.558)	330910	50.0000	50
14	Methylene Chloride	84	3.411	3.411	(0.573)	395316	50.0000	50
116	Acrylonitrile	53	3.655	3.655	(0.614)	626138	250.000	250
18	trans-1,2-Dichloroethene	96	3.696	3.696	(0.621)	295777	50.0000	50

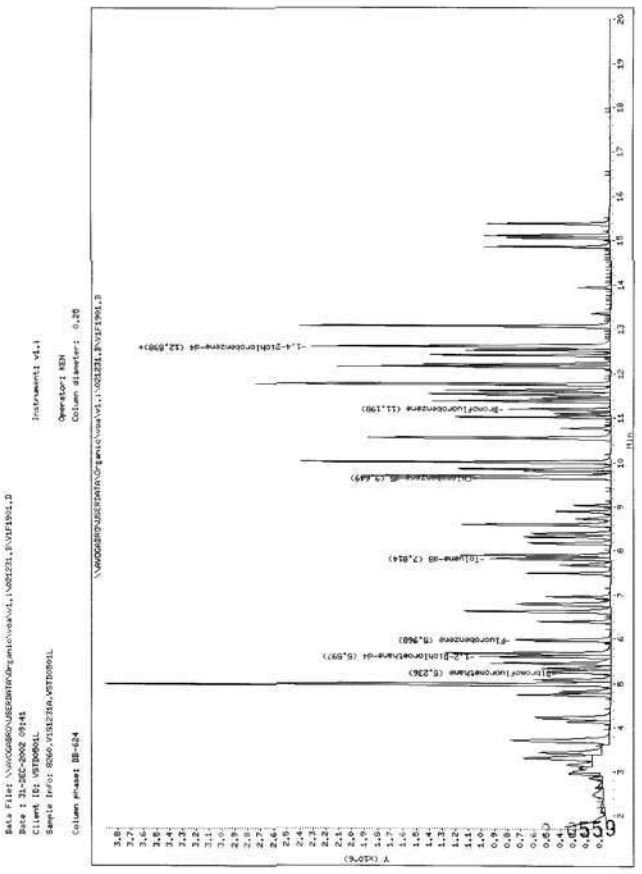
Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1871.D
Report Date: 09-Jan-2003 14:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
17	Methyl tert-butyl ether	73	3.708	3.708	(0.622)	466780	50.0000	50
16	1,1-Dichloroethane	63	4.122	4.122	(0.692)	525641	50.0000	50
19	Vinyl acetate	43	4.186	4.186	(0.702)	746869	50.0000	50
23	cis-1,2-Dichloroethene	96	4.716	4.716	(0.792)	298723	50.0000	50
22	2-Butanone	43	4.748	4.748	(0.797)	193043	50.0000	50
29	Tetrahydrofuran	72	5.034	5.034	(0.845)	44082	50.0000	50
24	2,2-Dichloropropane	77	4.716	4.716	(0.792)	295239	50.0000	50
27	Bromochloromethane	128	4.971	4.971	(0.834)	164489	50.0000	50
28	Chloroform	83	5.055	5.055	(0.849)	522654	50.0000	50
$ 30	Dibromofluoromethane	113	5.225	5.225	(0.877)	254982	50.0000	50
31	1,1,1-Trichloroethane	97	5.257	5.257	(0.882)	366613	50.0000	50
113	Cyclohexane	56	5.321	5.321	(0.893)	453223	50.0000	50
32	1,1-Dichloropropene	110	5.437	5.437	(0.913)	122173	50.0000	50
33	Carbon Tetrachloride	117	5.437	5.437	(0.913)	318120	50.0000	50
$ 35	1,2-Dichloroethane-d4	102	5.586	5.586	(0.938)	68297	50.0000	50
37	Benzene	78	5.649	5.649	(0.948)	1116125	50.0000	50
36	1,2-Dichloroethane	62	5.660	5.660	(0.950)	410940	50.0000	50
* 38	Fluorobenzene	96	5.957	5.957	(1.000)	939685	50.0000	
39	Trichloroethene	130	6.381	6.381	(1.071)	259734	50.0000	50
114	Methylcyclohexane	83	6.604	6.604	(1.109)	439604	50.0000	50
40	1,2-Dichloropropane	63	6.615	6.615	(1.110)	291688	50.0000	50
42	Dibromomethane	93	6.753	6.753	(1.134)	198850	50.0000	50
43	Bromodichloromethane	83	6.944	6.944	(1.166)	405782	50.0000	50
45	cis-1,3-Dichloropropene	75	7.474	7.474	(1.255)	486163	50.0000	50
46	4-Methyl-2-pentanone	43	7.665	7.665	(1.287)	373634	50.0000	50
$ 47	Toluene-d8	98	7.803	7.803	(0.810)	819140	50.0000	50
48	Toluene	91	7.888	7.888	(1.324)	1091790	50.0000	50
49	trans-1,3-Dichloropropene	75	8.153	8.153	(1.369)	444797	50.0000	50
51	1,1,2-Trichloroethane	97	8.376	8.376	(1.406)	242168	50.0000	50
53	Tetrachloroethene	164	8.577	8.577	(0.890)	221519	50.0000	50
52	1,3-Dichloropropane	76	8.588	8.588	(0.891)	439624	50.0000	50
54	2-Hexanone	43	8.715	8.715	(0.904)	263743	50.0000	50
55	Dibromochloromethane	129	8.874	8.874	(0.921)	293052	50.0000	50
56	1,2-Dibromoethane	107	9.012	9.012	(0.935)	261187	50.0000	50
* 57	Chlorobenzene-d5	117	9.638	9.638	(1.000)	640526	50.0000	
115	1-Chlorohexane	91	9.676	9.676	(1.005)	585647	50.0000	50
58	Chlorobenzene	112	9.670	9.670	(1.003)	695037	50.0000	50
59	1,1,1,2-Tetrachloroethane	131	9.786	9.786	(1.015)	243002	50.0000	50
60	Ethylbenzene	106	9.829	9.829	(1.020)	344590	50.0000	50
61	m,p-Xylene	106	9.999	9.999	(1.037)	911529	100.000	100
62	o-Xylene	106	10.518	10.518	(1.091)	441808	50.0000	50
64	Styrene	104	10.529	10.529	(1.092)	746111	50.0000	50
65	Bromoform	173	10.752	10.752	(1.116)	217402	50.0000	50
66	Isopropylbenzene	105	10.996	10.996	(1.141)	1052085	50.0000	50
$ 68	Bromofluorobenzene	95	11.187	11.187	(1.161)	333962	50.0000	50
69	1,1,2,2-Tetrachloroethane	83	11.367	11.367	(0.902)	378544	50.0000	50
70	Bromobenzene	156	11.356	11.356	(0.901)	312243	50.0000	50

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1871.D
Report Date: 09-Jan-2003 14:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
71	1,2,3-Trichloropropane	75	11.409	11.409	(0.906)	403028	50.0000	50
72	n-Propylbenzene	120	11.526	11.526	(0.915)	281743	50.0000	50
73	1-Chlorotoluene	126	11.611	11.611	(0.922)	366411	50.0000	50
74	1,3,5-Trimethylbenzene	105	11.749	11.749	(0.933)	923195	50.0000	50
75	4-Chlorotoluene	126	11.749	11.749	(0.933)	289616	50.0000	50
76	tert-Butylbenzene	119	12.141	12.141	(0.964)	882032	50.0000	50
77	1,2,4-Trimethylbenzene	105	12.194	12.194	(0.968)	906801	50.0000	50
78	sec-Butylbenzene	105	12.407	12.407	(0.985)	1191331	50.0000	50
80	1,3-Dichlorobenzene	146	12.513	12.513	(0.993)	528270	50.0000	50
79	4-Isopropyltoluene	119	12.587	12.587	(0.999)	940336	50.0000	50
* 81	1,4-Dichlorobenzene-d4	152	12.597	12.597	(1.000)	373393	50.0000	
82	1,4-Dichlorobenzene	146	12.619	12.619	(1.002)	579258	50.0000	50
83	n-Butylbenzene	91	13.054	13.054	(1.036)	1035220	50.0000	50
84	1,2-Dichlorobenzene	146	13.054	13.054	(1.036)	535181	50.0000	50
M 63	Xylene (Total)	106				1353337	150.000	150
86	1,2-Dibromo-3-chloropropane	75	13.923	13.923	(1.105)	68317	50.0000	50
87	1,2,4-Trichlorobenzene	180	14.846	14.846	(1.179)	336203	50.0000	50
88	Hexachlorobutadiene	225	15.048	15.048	(1.195)	158389	50.0000	50
89	Naphthalene	128	15.101	15.101	(1.199)	744974	50.0000	50
90	1,2,3-Trichlorobenzene	180	15.365	15.365	(1.220)	702264	50.0000	50

SB 1/9/03



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1901.D
Report Date: 10-Jan-2003 10:58

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1901.D
Lab Smp Id: V1S1231A Client Smp ID: VSTD0501L
Inj Date : 31-DEC-2002 09:41
Operator : KEN Inst ID: v1.i
Smp Info : 8260,V1S1231A,VSTD0501L
Misc Info : ,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\v18260H.m
Meth Date : 10-Jan-2003 10:58 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	1 Dichlorodifluoromethane	85	1.513	1.513	(0.353)	220101	50.0000	45
	2 Chloromethane	50	1.693	1.693	(0.283)	467959	50.0000	50
	3 Vinyl Chloride	62	1.789	1.789	(0.299)	360184	50.0000	49
	4 Bromomethane	94	2.107	2.107	(0.352)	102313	50.0000	42
	5 Chloroethane	64	2.224	2.224	(0.372)	137685	50.0000	43
	6 Trichlorofluoromethane	101	2.447	2.447	(0.409)	269321	50.0000	47
	8 1,1-Dichloroethene	96	2.945	2.945	(0.493)	312624	50.0000	52
	9 Acetone	43	3.009	3.009	(0.503)	140008	50.0000	53
	14 Methylene Chloride	84	3.422	3.422	(0.572)	496070	50.0000	45
	116 Acrylonitrile	53	3.477	3.477	(0.615)	654113	250.000	280
	16 trans-1,2-Dichloroethene	96	3.709	3.709	(0.620)	264437	50.0000	49
	17 Methyl tert-butyl ether	73	3.730	3.730	(0.624)	342259	50.0000	44
	18 1,1-Dichloroethane	63	4.133	4.133	(0.691)	483968	50.0000	52
	22 2-Butanone	43	4.759	4.759	(0.796)	211773	50.0000	58
	29 Tetrahydrofuran	72	5.056	5.056	(0.846)	46996	50.0000	60

0 0560

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1901.D
Report Date: 10-Jan-2003 10:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	23 cis-1,2 Dichloroethene	96	4.738	4.738	(0.792)	262659	50.0000	49
	24 2,2-Dichloropropane	77	4.727	4.727	(0.791)	226691	50.0000	45
	27 Bromochloromethane	128	4.982	4.982	(0.833)	151513	50.0000	50
	28 Chloroform	83	5.077	5.077	(0.849)	472395	50.0000	52
S	30 Dibromofluoromethane	113	5.236	5.236	(0.876)	234307	50.0000	51
	31 1,1,1-Trichloroethane	97	5.268	5.268	(0.881)	301508	50.0000	48
	32 1,1-Dichloropropene	110	5.449	5.449	(0.911)	105091	50.0000	49
	33 Carbon Tetrachloride	117	5.449	5.449	(0.911)	268389	50.0000	49
S	35 1,2-Dichloroethane-d4	102	5.597	5.597	(0.936)	57561	50.0000	53
	37 Benzene	78	5.661	5.661	(0.947)	1016014	50.0000	51
	36 1,2-Dichloroethane	62	5.682	5.682	(0.950)	396936	50.0000	54
*	38 Fluorobenzene	96	5.979	5.979	(1.000)	831928	50.0000	
	39 Trichloroethene	130	6.393	6.393	(1.069)	326811	50.0000	49
	40 1,2-Dichloropropane	63	6.624	6.624	(1.108)	272210	50.0000	52
	42 Dibromomethane	93	6.764	6.764	(1.131)	193420	50.0000	53
	43 Bromodichloromethane	83	6.955	6.955	(1.163)	381260	50.0000	52
	45 cis-1,3-Dichloropropene	75	7.485	7.485	(1.252)	452627	50.0000	52
	46 4-Methyl-2-pentanone	43	7.676	7.676	(1.284)	398375	50.0000	58
S	47 Toluene-d8	98	7.814	7.814	(0.810)	744323	50.0000	49
	48 Toluene	91	7.899	7.899	(1.321)	977447	50.0000	50
	49 trans-1,3-Dichloropropene	75	8.175	8.175	(1.367)	425606	50.0000	54
	51 1,1,2-Trichloroethane	97	8.397	8.397	(1.405)	231231	50.0000	52
	52 1,3-Dichloropropane	76	8.599	8.599	(0.891)	432563	50.0000	54
	53 Tetrachloroethene	164	8.588	8.588	(0.890)	194914	50.0000	48
	54 2-Hexanone	43	8.726	8.726	(0.904)	348020	50.0000	60
	55 Dibromochloromethane	129	8.896	8.896	(0.922)	276118	50.0000	51
	56 1,2 Dibromoethane	107	9.034	9.034	(0.936)	254304	50.0000	53
	115 1-Chlorohexane	91	9.681	9.681	(1.003)	343946	50.0000	47
*	57 Chlorobenzene-d5	117	9.649	9.649	(1.000)	586937	50.0000	
	58 Chlorobenzene	112	9.692	9.692	(1.004)	633614	50.0000	49
	59 1,1,1,2-Tetrachloroethane	131	9.798	9.798	(1.015)	220498	50.0000	49
	60 Ethylbenzene	106	9.851	9.851	(1.021)	311932	50.0000	50
	61 m,p-Xylene	106	10.010	10.010	(1.037)	848482	100.000	100
	62 o-Xylene	106	10.530	10.530	(1.091)	413822	50.0000	50
	64 Styrene	104	10.551	10.551	(1.093)	716574	50.0000	53
	65 Bromoform	173	10.763	10.763	(1.115)	213618	50.0000	53
	66 Isopropylbenzene	105	11.018	11.018	(1.142)	956982	50.0000	50
S	68 Bromofluorobenzene	95	11.198	11.198	(1.161)	319203	50.0000	51
	69 1,1,2,2-Tetrachloroethane	83	11.389	11.389	(0.903)	400785	50.0000	51
	70 Bromobenzene	156	11.378	11.378	(0.902)	301001	50.0000	48
	71 1,2,3-Trichloropropane	75	11.431	11.431	(0.907)	419956	50.0000	54
	72 n-Propylbenzene	120	11.537	11.537	(0.915)	262744	50.0000	48
	73 2-Chlorotoluene	126	11.622	11.622	(0.922)	245727	50.0000	48
	74 1,3,5-Trimethylbenzene	105	11.760	11.760	(0.933)	870370	50.0000	48
	75 4-Chlorotoluene	126	11.760	11.760	(0.933)	267814	50.0000	47
	76 tert-Butylbenzene	119	12.153	12.153	(0.964)	825578	50.0000	47
	77 1,2,4-Trimethylbenzene	105	12.206	12.206	(0.968)	881136	50.0000	48

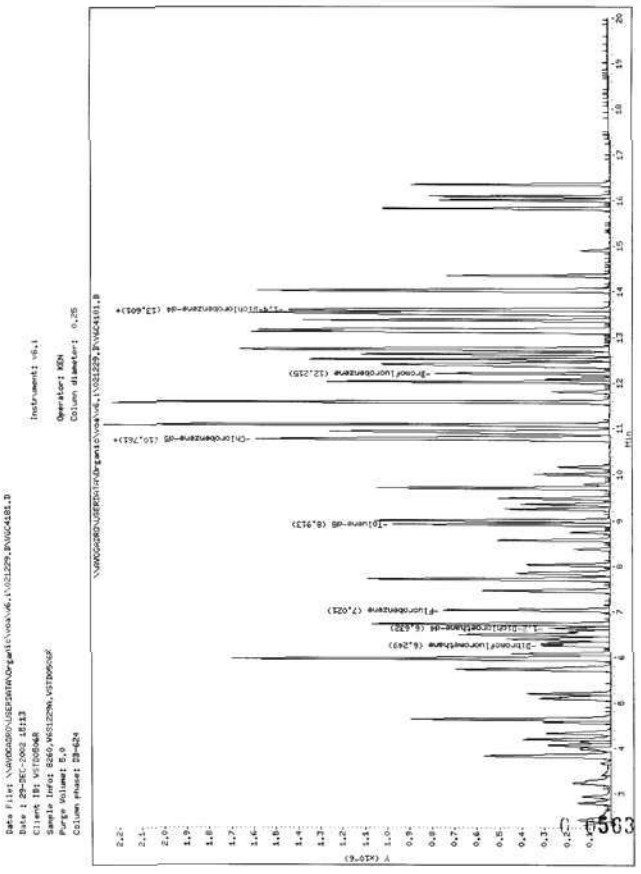
0 0561

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1901.D
Report Date: 10-Jan-2003 10:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	78 sec-Butylbenzene	105	12.418	12.418	(0.985)	1104701	50.0000	47
	80 1,3-Dichlorobenzene	146	12.524	12.524	(0.993)	509588	50.0000	47
	79 4-Isopropyltoluene	119	12.598	12.598	(0.999)	877142	50.0000	48
*	81 1,4-Dichlorobenzene-d4	152	12.609	12.609	(1.000)	340372	50.0000	
	82 1,4-Dichlorobenzene	146	12.630	12.630	(1.002)	552528	50.0000	47
	83 n-Butylbenzene	91	13.075	13.075	(1.037)	975422	50.0000	49
	84 1,2-Dichlorobenzene	146	13.065	13.065	(1.036)	520564	50.0000	47
M	63 Xylene (Total)	106				1262304	150.000	150
	86 1,2-Dibromo-3-Chloropropane	75	13.945	13.945	(1.106)	76937	50.0000	54
	87 1,2,4-Trichlorobenzene	180	14.858	14.858	(1.178)	330879	50.0000	48
	88 Hexachlorobutadiene	225	15.059	15.059	(1.194)	149519	50.0000	47
	89 Naphthalene	128	15.112	15.112	(1.199)	829212	50.0000	48
	90 1,2,3-Trichlorobenzene	180	15.377	15.377	(1.220)	313394	50.0000	47

SB 1/10/03

0 0562



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4181.D
Report Date: 09-Jan-2003 12:36

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4181.D
Lab Smp Id: V6S1229A Client Smp ID: VSTD0506R
Inj Date : 29-DEC-2002 15:13
Operator : KEN Inst ID: v6.i
Smp Info : 8260,V6S1229A,VSTD0506R
Misc Info : ,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\v68260.m
Meth Date : 09-Jan-2003 12:27 mtl Quant Type: ISTD
Cal Date : 24-DEC-2002 17:54 Cal File: V6C4111.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL AMT (ug/L)	ON-COL (ug/L)
	1 Dichlorodifluoromethane	85	2.035	2.035	(0.290)	214053	50.0000	50
	2 Chloromethane	50	2.266	2.266	(0.323)	333112	50.0000	46
	3 Vinyl Chloride	62	2.412	2.412	(0.343)	318704	50.0000	45
	4 Bromomethane	94	2.789	2.789	(0.397)	176089	50.0000	49
	5 Chloroethane	64	2.929	2.929	(0.417)	178610	50.0000	51
	6 Trichlorofluoromethane	101	3.227	3.227	(0.460)	306576	50.0000	41
	8 1,1-Dichloroethene	96	3.817	3.817	(0.544)	279128	50.0000	47
	9 Acetone	43	3.841	3.841	(0.547)	49019	50.0000	42
	10 Iodomethane	142	3.993	3.993	(0.569)	414097	50.0000	58
	11 Carbon Disulfide	76	4.066	4.066	(0.579)	711451	50.0000	54
	14 Methylene Chloride	84	4.321	4.321	(0.615)	297135	50.0000	51
	15 Acrylonitrile	53	4.577	4.577	(0.652)	347622	250.000	240
	16 trans-1,2-Dichloroethene	96	4.631	4.631	(0.660)	270931	50.0000	48
	17 Methyl tert-butyl ether	73	4.637	4.637	(0.660)	690787	50.0000	52
	18 1,1-Dichloroethane	63	5.088	5.088	(0.725)	425504	50.0000	45
	19 Vinyl acetate	43	5.130	5.130	(0.731)	372654	50.0000	48

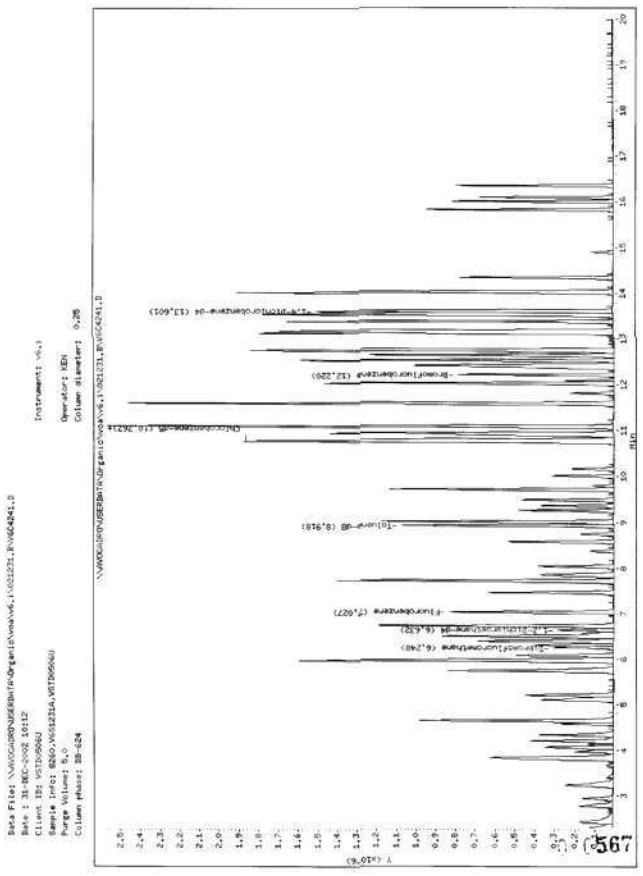
Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4181.D
Report Date: 09-Jan-2003 12:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL AMT (ug/L)	ON-COL (ug/L)
	22 2-Butanone	43	5.726	5.726	(0.814)	76500	50.0000	45
	28 Tetrahydrofuran	72	6.054	6.054	(0.862)	27708	50.0000	53
	23 cis-1,2-Dichloroethene	96	5.726	5.726	(0.814)	315193	50.0000	52
	24 2,2-Dichloropropane	77	5.732	5.732	(0.814)	194664	50.0000	42
	27 Bromochloromethane	128	5.987	5.987	(0.851)	159147	50.0000	56
	28 Chloroform	83	6.073	6.073	(0.865)	442502	50.0000	48
$	30 Dibromofluoromethane	113	6.249	6.249	(0.890)	259793	50.0000	55
	31 1,1,1-Trichloroethane	97	6.304	6.304	(0.898)	289769	50.0000	45
	32 1,1-Dichloropropene	110	6.480	6.480	(0.923)	130873	50.0000	50
	33 Carbon Tetrachloride	117	6.498	6.498	(0.925)	284799	50.0000	48
$	35 1,2-Dichloroethane-d4	102	6.632	6.632	(0.945)	69800	50.0000	55
	37 Benzene	78	6.717	6.717	(0.957)	1093041	50.0000	48
	36 1,2-Dichloroethane	62	6.717	6.717	(0.957)	308263	50.0000	46
*	38 Fluorobenzene	96	7.021	7.021	(1.000)	1060207	50.0000	
	39 Trichloroethene	130	7.453	7.453	(1.061)	304045	50.0000	53
	40 1,2-Dichloropropane	63	7.708	7.708	(1.098)	275791	50.0000	47
	42 Dibromomethane	93	7.848	7.848	(1.118)	163531	50.0000	51
	43 Bromodichloromethane	83	8.025	8.025	(1.143)	361892	50.0000	51
	45 cis-1,3-Dichloropropene	75	8.566	8.566	(1.220)	465341	50.0000	51
	46 4-Methyl-2-pentanone	43	8.736	8.736	(1.244)	157312	50.0000	46
$	47 Toluene-d8	98	8.913	8.913	(0.828)	1056050	50.0000	49
	48 Toluene	91	8.998	8.998	(1.281)	1236975	50.0000	52
	49 trans-1,3-Dichloropropene	75	9.247	9.247	(1.317)	405172	50.0000	53
	51 1,1,2-Trichloroethane	97	9.484	9.484	(1.351)	253071	50.0000	53
	52 1,3-Dichloropropane	76	9.709	9.709	(0.932)	427479	50.0000	47
	53 Tetrachloroethene	164	9.715	9.715	(0.953)	239365	50.0000	50
	54 2-Hexanone	43	9.794	9.794	(0.910)	102768	50.0000	42
	55 Dibromochloromethane	129	10.007	10.007	(0.930)	294793	50.0000	54
	56 1,2-Dibromoethane	107	10.171	10.171	(0.945)	262245	50.0000	52
	115 1-Chlorohexane	91	10.755	10.755	(0.999)	371672	50.0000	43
*	57 Chlorobenzene-d5	117	10.761	10.761	(1.000)	889517	50.0000	
	58 Chlorobenzene	112	10.804	10.804	(1.004)	890765	50.0000	50
	59 1,1,1,2-Tetrachloroethane	131	10.895	10.895	(1.012)	300012	50.0000	51
	60 Ethylbenzene	106	10.932	10.932	(1.016)	855345	50.0000	47
	61 m,p-Xylene	106	11.084	11.084	(1.030)	1106436	100.000	95
	62 o-Xylene	106	11.576	11.576	(1.076)	571148	50.0000	49
	64 Styrene	104	11.594	11.594	(1.077)	970021	50.0000	51
	65 Bromoform	173	11.819	11.819	(1.098)	186811	50.0000	42
	66 Isopropylbenzene	105	12.032	12.032	(1.118)	1260138	50.0000	48
$	68 Bromofluorobenzene	95	12.215	12.215	(1.135)	393561	50.0000	50
	69 1,1,2,2-Tetrachloroethane	83	12.373	12.373	(0.910)	300341	50.0000	42
	70 Bromobenzene	156	12.403	12.403	(0.913)	382018	50.0000	50
	71 1,2,3-Trichloropropane	75	12.428	12.428	(0.915)	374373	50.0000	45
	72 n-Propylbenzene	120	12.531	12.531	(0.922)	333588	50.0000	44
	73 2-Chlorotoluene	126	12.634	12.634	(0.930)	359939	50.0000	45
	74 1,3,5-Trimethylbenzene	105	12.732	12.732	(0.937)	1112084	50.0000	44
	75 4-Chlorotoluene	126	12.762	12.762	(0.939)	337339	50.0000	48

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4181.D
Report Date: 09-Jan-2003 12:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL AMT (ug/L)	ON-COL (ug/L)
	76 tert-Butylbenzene	119	13.127	13.127	(0.966)	1281431	50.0000	46
	77 1,2,4-Trimethylbenzene	105	13.176	13.176	(0.970)	1173056	50.0000	46
	78 sec-Butylbenzene	105	13.361	13.361	(0.965)	1398876	50.0000	43
	80 1,3-Dichlorobenzene	146	13.516	13.516	(0.995)	717001	50.0000	49
	79 4-Isopropyltoluene	119	13.547	13.547	(0.997)	1193598	50.0000	45
*	81 1,4-Dichlorobenzene-d4	152	13.589	13.589	(1.000)	479503	50.0000	
	82 1,4-Dichlorobenzene	146	13.613	13.613	(1.002)	728949	50.0000	49
	83 n-Butylbenzene	91	14.015	14.015	(1.031)	1062188	50.0000	43
	84 1,2-Dichlorobenzene	146	14.046	14.046	(1.034)	683819	50.0000	49
M	63 Xylene (Total)	106				1677984	150.000	140
	86 1,2-Dibromo-3-chloropropane	75	14.901	14.901	(1.097)	45149	50.0000	44
	87 1,2,4-Trichlorobenzene	180	15.827	15.827	(1.165)	430599	50.0000	56
	88 Hexachlorobutadiene	225	16.010	16.010	(1.178)	198166	50.0000	50
	89 Naphthalene	128	16.089	16.089	(1.184)	932014	50.0000	51
	90 1,2,3-Trichlorobenzene	180	16.350	16.350	(1.203)	411972	50.0000	54

(50) 1/9/03



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\V6C4241.D
Report Date: 09-Jan-2003 12:55

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\V6C4241.D
Lab Smp Id: V6S1231A Client Smp ID: VSTD0506U
Inj Date : 31-DEC-2002 10:12
Operator : KEN Inst ID: v6.i
Smp Info : 8260,V6S1231A,VSTD0506U
Misc Info : ,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\v68260.m
Meth Date : 09-Jan-2003 12:50 mtl Quant Type: ISTD
Cal Date : 24-DEC-2002 17:54 Cal File: V6C4111.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT STG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	2.034	2.034	(0.289)	246906	50.0000	54
2 Chloromethane	50	2.265	2.265	(0.322)	436268	50.0000	56
3 Vinyl Chloride	62	2.411	2.411	(0.343)	409081	50.0000	54
4 Bromomethane	94	2.764	2.764	(0.393)	266040	50.0000	69
5 Chloroethane	64	2.940	2.940	(0.418)	337490	50.0000	63
6 Trichlorofluoromethane	101	3.232	3.232	(0.460)	423063	50.0000	52
8 1,1-Dichloroethene	96	3.798	3.798	(0.540)	306938	50.0000	48
9 Acetone	43	3.840	3.840	(0.546)	47739	50.0000	38
10 Iodomethane	142	3.968	3.968	(0.563)	453064	50.0000	58
11 Carbon Disulfide	76	4.053	4.053	(0.577)	873936	50.0000	61
14 Methylene Chloride	84	4.327	4.327	(0.616)	295110	50.0000	47
15 Acrylonitrile	53	4.576	4.576	(0.651)	305571	250.000	200
16 trans-1,2-Dichloroethene	96	4.637	4.637	(0.660)	304443	50.0000	50
17 Methyl tert-butyl ether	73	4.637	4.637	(0.660)	636038	50.0000	48
18 1,1 Dichloroethane	63	5.093	5.093	(0.725)	495674	50.0000	49
19 Vinyl acetate	43	5.130	5.130	(0.730)	389692	50.0000	46

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\V6C4241.D
Report Date: 09-Jan-2003 12:55

Compounds	QUANT STG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
22 2-Butanone	43	5.726	5.926	(0.815)	77110	50.0000	42
23 Tetrahydrofuran	72	6.066	6.066	(0.863)	23953	50.0000	42
23 cis-1,2-Dichloroethene	96	5.732	5.932	(0.816)	334354	50.0000	51
24 2,2-Dichloropropane	77	5.738	5.938	(0.817)	264392	50.0000	57
27 Bromochloromethane	128	5.993	5.993	(0.853)	149057	50.0000	48
28 Chloroform	83	6.072	6.072	(0.864)	484068	50.0000	49
S 30 Dibromofluoromethane	113	6.248	6.248	(0.889)	280289	50.0000	51
31 1,1,1-Trichloroethane	97	6.303	6.303	(0.897)	345593	50.0000	52
32 1,1-Dichloropropene	110	6.492	6.492	(0.924)	147557	50.0000	52
33 Carbon Tetrachloride	117	6.498	6.498	(0.925)	333304	50.0000	52
S 35 1,2-Dichloroethane-d4	102	6.638	6.638	(0.945)	84096	50.0000	47
37 Benzene	78	6.717	6.717	(0.956)	1226040	50.0000	50
38 1,2-Dichloroethane	62	6.723	6.723	(0.957)	318504	50.0000	44
* 38 Fluorobenzene	96	7.027	7.027	(1.000)	1143343	50.0000	
39 Trichloroethene	130	7.459	7.459	(1.061)	321031	50.0000	52
40 1,2-Dichloropropane	63	7.708	7.708	(1.097)	323907	50.0000	48
42 Dibromomethane	93	7.848	7.848	(1.117)	154091	50.0000	45
43 BromodiChloromethane	83	8.030	8.030	(1.143)	363985	50.0000	49
45 cis-1,3 Dichloropropene	75	8.572	8.572	(1.220)	482951	50.0000	49
46 4-Methyl-2-pentanone	43	8.742	8.742	(1.244)	161236	50.0000	43
S 47 Toluene-d8	98	8.918	8.918	(0.828)	1122597	50.0000	51
48 Toluene	91	9.003	9.003	(1.281)	1344446	50.0000	52
49 trans-1,3-Dichloropropene	75	9.253	9.253	(1.317)	386403	50.0000	48
51 1,1,2-Trichloroethane	97	9.490	9.490	(1.351)	235505	50.0000	46
52 1,3-Dichloropropane	76	9.709	9.709	(0.903)	417375	50.0000	45
53 Tetrachloroethene	164	9.721	9.721	(0.903)	251429	50.0000	51
54 2-Hexanone	43	9.800	9.800	(0.910)	104882	50.0000	42
55 Dibromochloromethane	129	10.013	10.013	(0.930)	263763	50.0000	48
56 1,2-Dibromoethane	107	10.171	10.171	(0.945)	230825	50.0000	45
115 1-Chlorohexane	91	10.761	10.761	(0.999)	479824	50.0000	54
* 57 Chlorobenzene-d5	117	10.767	10.767	(1.000)	909576	50.0000	
58 Chlorobenzene	112	10.803	10.803	(1.003)	914588	50.0000	53
59 1,1,1,2-Tetrachloroethane	131	10.901	10.901	(1.012)	300549	50.0000	50
60 Ethylbenzene	106	10.937	10.937	(1.016)	495467	50.0000	50
61 m,p Xylene	106	11.083	11.083	(1.029)	1229648	100.000	100
62 o Xylene	106	11.582	11.582	(1.076)	601496	50.0000	50
64 Styrene	104	11.594	11.594	(1.077)	1004793	50.0000	51
65 Bromoform	173	11.819	11.819	(1.098)	149993	50.0000	48
66 Isopropylbenzene	105	12.032	12.032	(1.117)	1821471	50.0000	54
S 68 Bromofluorobenzene	95	12.220	12.220	(1.135)	393584	50.0000	49
69 1,1,2,2-Tetrachloroethane	83	12.372	12.372	(0.910)	377180	50.0000	42
70 Bromobenzene	156	12.409	12.409	(0.913)	359773	50.0000	51
71 1,2,3-Trichloropropane	75	12.433	12.433	(0.915)	341295	50.0000	44
72 n-Propylbenzene	120	12.530	12.530	(0.922)	429976	50.0000	51
73 2-Chlorotoluene	126	12.640	12.640	(0.930)	374353	50.0000	51
74 1,3,5-Trimethylbenzene	105	12.737	12.737	(0.937)	1225191	50.0000	53
75 4-Chlorotoluene	126	12.768	12.768	(0.940)	391013	50.0000	51

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\V6C4241.D
Report Date: 09-Jan-2003 12:55

Compounds	QUANT STG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
76 tert-Butylbenzene	119	13.126	13.126	(0.966)	1370567	50.0000	53
77 1,2,4-Trimethylbenzene	105	13.181	13.181	(0.970)	1249597	50.0000	52
78 sec-Butylbenzene	105	13.382	13.382	(0.985)	1624782	50.0000	54
80 1,3-Dichlorobenzene	146	13.516	13.516	(0.995)	709552	50.0000	52
79 4-Isopropyltoluene	119	13.546	13.546	(0.997)	1323646	50.0000	54
* 81 1,4-Dichlorobenzene-d4	152	13.589	13.589	(1.000)	845295	50.0000	
82 1,4-Dichlorobenzene	146	13.619	13.619	(1.002)	916184	50.0000	54
83 n-Butylbenzene	91	14.014	14.014	(1.031)	1256467	50.0000	50
84 1,2-Dichlorobenzene	146	14.045	14.045	(1.034)	654854	50.0000	52
M 63 Xylene (Total)	106				1830544	150.000	150
86 1,2-Dibromo-3-chloropropane	75	14.902	14.902	(1.097)	37734	50.0000	46
87 1,2,4-Trichlorobenzene	180	15.827	15.827	(1.165)	414028	50.0000	51
88 Hexachlorobutadiene	225	16.009	16.009	(1.178)	201291	50.0000	54
89 Naphthalene	128	16.094	16.094	(1.184)	734065	50.0000	43
90 1,2,3-Trichlorobenzene	180	16.356	16.356	(1.204)	344294	50.0000	48

SB 1/9/03

Data File: \\WVDOADRO\USERDATA\Organic\voa\v1,1\021230.B\V1F1870A.D Page 2

Date : 30-DEC-2002 10:08

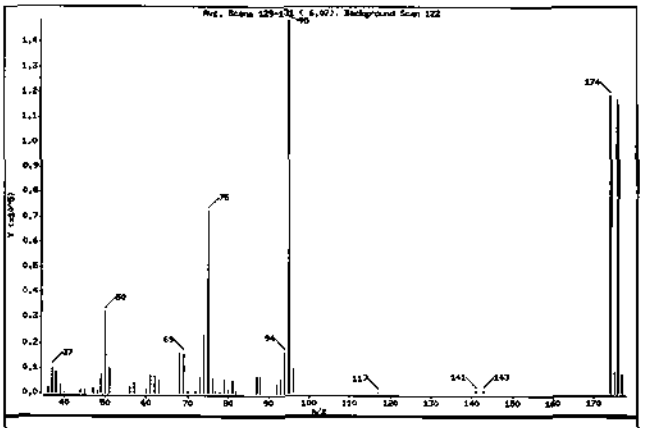
Client ID: BFBIK Instrument: v1,1

Sample Info: 8260,V1T1230A,BFBIK

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

1 bfb



m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.77
75	30.00 - 60.00% of mass 95	48.63
96	5.00 - 9.00% of mass 95	6.59
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	79.81
175	5.00 - 9.00% of mass 174	5.83 (7.31)
176	95.00 - 101.00% of mass 174	78.49 (98.33)
177	5.00 - 9.00% of mass 176	4.98 (6.34)

Data File: V1F1870A.D

Spectrum: Avg. Scans 129-131 (6,07). Background Scan 122

Location of Maximum: 95.00

Number of points: 46

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2376	86.00	2430	76.00	72320	94.00	16480
37.00	10188	87.00	4249	76.00	5940	95.00	148672
38.00	8676	60.00	1287	77.00	784	96.00	9662
39.00	3409	61.00	7186	78.00	340	117.00	360
40.00	66	62.00	6926	79.00	5464	141.00	948
44.00	1132	63.00	8115	80.00	1155	143.00	976
45.00	1474	68.00	19813	81.00	8281	174.00	118680
47.00	1879	69.00	19067	82.00	881	175.00	8670
48.00	890	70.00	1013	87.00	6484	176.00	116704
49.00	7424	72.00	756	89.00	6474	177.00	7403
50.00	32360	73.00	6219	92.00	3844		
51.00	9875	74.00	23392	93.00	8819		

Data File: \\WVDOADRO\USERDATA\Organic\voa\v1,1\021230.B\V1F1870A.D Page 1

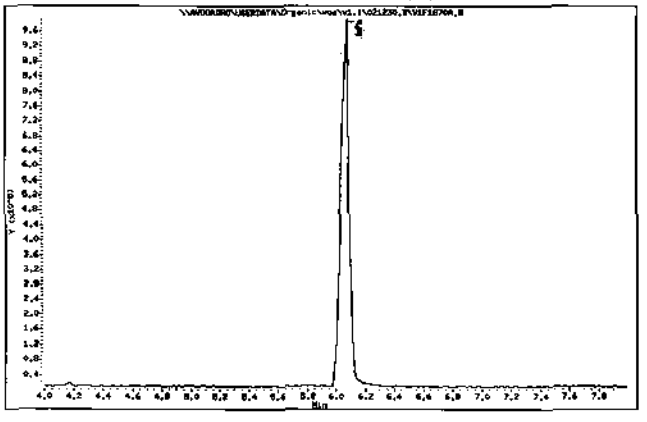
Date : 30-DEC-2002 10:08

Client ID: BFBIK Instrument: v1,1

Sample Info: 8260,V1T1230A,BFBIK

Operator: KEN

Column phase: DB-624 Column diameter: 0.25



Data File: \\WVDOADRO\USERDATA\Organic\voa\v1,1\021231.B\V1F1900.D Page 2

Date : 31-DEC-2002 09:04

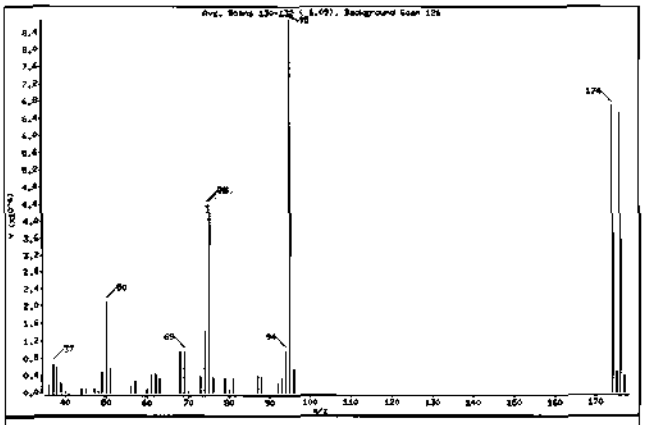
Client ID: BFBIL Instrument: v1,1

Sample Info: 8260,V1T1231A,BFBIL

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

1 bfb



m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.13
75	30.00 - 60.00% of mass 95	50.38
96	5.00 - 9.00% of mass 95	6.46
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	77.04
175	5.00 - 9.00% of mass 174	5.69 (7.39)
176	95.00 - 101.00% of mass 174	76.08 (97.46)
177	5.00 - 9.00% of mass 176	4.76 (6.34)

Data File: \\HVGCADRD\USERDATA\Organic\voa\v6.i\021231,B\v1f1900.D Page 3

Date : 31-DEC-2002 09:04

Client ID: BFBGL Instrument: v6.i

Sample Info: 8260,v1f12310,BFBGL

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Data File: V1F1900.D
Spectrum: Avg. Scans 130-132 (6.09), Background Scan 126
Location of Maximum: 95.00
Number of points: 39

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1821	80.00	21016	70.00	373	92.00	2242
37.00	6779	81.00	8911	73.00	2852	93.00	3388
38.00	6003	86.00	1447	74.00	14540	94.00	9784
39.00	2983	87.00	2944	75.00	43890	95.00	67104
40.00	148	60.00	801	76.00	3603	96.00	5629
44.00	909	61.00	4244	79.00	3382	174.00	67104
45.00	1064	62.00	4316	80.00	694	175.00	4960
47.00	1082	63.00	3188	81.00	3322	176.00	65392
48.00	382	66.00	9794	87.00	4547	177.00	4148
49.00	4724	69.00	9878	88.00	3695		

Data File: \\HVGCADRD\USERDATA\Organic\voa\v1.i\021231,B\v1f1900.D Page 1

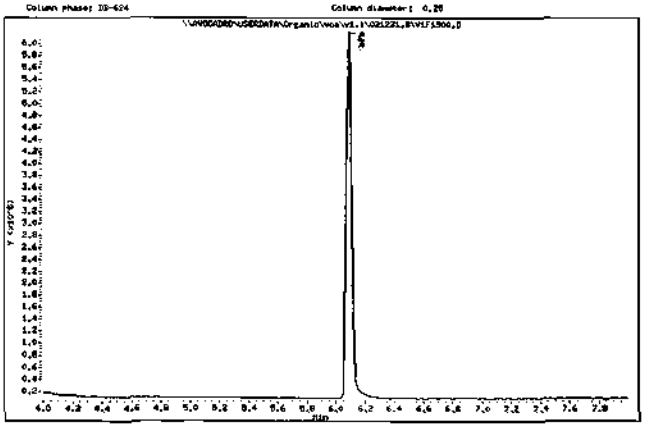
Date : 31-DEC-2002 09:04

Client ID: BFBGL Instrument: v1.i

Sample Info: 8260,v1f12310,BFBGL

Operator: KEN

Column phase: DB-624 Column diameter: 0.20



Data File: \\HVGCADRD\USERDATA\Organic\voa\v6.i\021224,B\V6C4100.D Page 2

Date : 24-DEC-2002 12:52

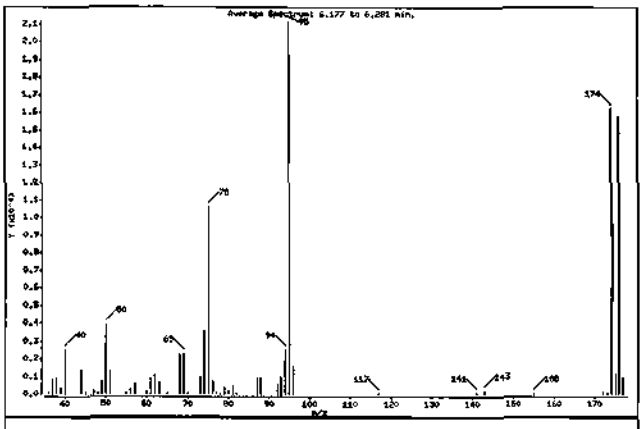
Client ID: BFB4H Instrument: v6.i

Sample Info: DLM.V6T12240,BFB4H

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

1 bfb



m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.50
75	30.00 - 60.00% of mass 95	50.34
96	5.00 - 9.00% of mass 95	7.42
173	Less than 2.00% of mass 174	0.32 (0.41)
174	50.00 - 100.00% of mass 95	76.90
175	5.00 - 9.00% of mass 174	5.48 (7.13)
176	95.00 - 101.00% of mass 174	74.21 (96.72)
177	5.00 - 9.00% of mass 176	4.31 (5.79)

Data File: \\HVGCADRD\USERDATA\Organic\voa\v6.i\021224,B\V6C4100.D Page 3

Date : 24-DEC-2002 12:52

Client ID: BFB4H Instrument: v6.i

Sample Info: DLM.V6T12240,BFB4H

Operator: KEN

Column phase: DB-624 Column diameter: 0.25

Data File: V6C4100.D
Spectrum: Average Spectrum 6.177 to 6.281 Min.
Location of Maximum: 95.00
Number of points: 80

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	120	66.00	291	76.00	716	94.00	9573
37.00	898	67.00	896	77.00	119	117.00	28
38.00	888	60.00	121	78.00	38	141.00	99
39.00	346	61.00	897	79.00	404	143.00	287
40.00	2946	62.00	1676	80.00	208	155.00	33
44.00	1388	63.00	748	91.00	433	172.00	133
45.00	128	65.00	31	92.00	64	173.00	67
47.00	201	68.00	2223	87.00	891	174.00	16270
48.00	63	69.00	2280	88.00	947	175.00	1160
49.00	716	70.00	116	92.00	542	176.00	15742
50.00	3918	73.00	962	93.00	953	177.00	912
51.00	1291	74.00	3632	94.00	2538		
55.00	28	75.00	10068	90.00	21184		

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021224.B\V6C4100.D

Page 1

Date : 24-DEC-2002 12:52

Client ID: BFB6N

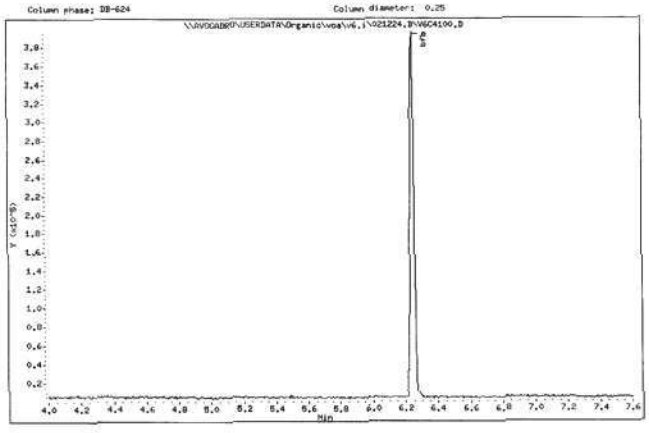
Instrument: v6.i

Sample Info: CLM,V6T1224A,BFB6N

Operator: KEN

Column phase: DB-624

Column diameter: 0.25



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4180.D

Page 2

Date : 29-DEC-2002 14:59

Client ID: BFB6R

Instrument: v6.i

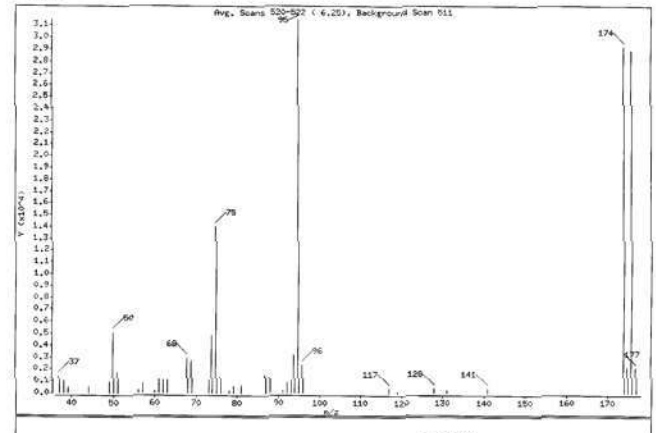
Sample Info: 8260,V6T1229A,BFB6R

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.07
75	30.00 - 60.00% of mass 95	44.88
96	5.00 - 9.00% of mass 95	7.41
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	92.81
175	5.00 - 9.00% of mass 174	6.59 (7.10)
176	95.00 - 101.00% of mass 174	91.87 (98.99)
177	5.00 - 9.00% of mass 176	6.59 (7.17)

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4180.D

Page 3

Date : 29-DEC-2002 14:59

Client ID: BFB6R

Instrument: v6.i

Sample Info: 8260,V6T1229A,BFB6R

Operator: KEN

Column phase: DB-624

Column diameter: 0.25

Data File: V6C4180.D
Spectrum: Avg. Scans 520-522 (6.25), Background Scan 511
Location of Maximum: 95.00
Number of points: 39

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1381	61.00	1153	79.00	567	117.00	393
38.00	1043	62.00	1093	81.00	637	119.00	169
39.00	481	63.00	1064	87.00	1557	129.00	387
44.00	829	68.00	2910	88.00	1230	131.00	210
49.00	909	69.00	2670	91.00	192	141.00	368
50.00	5056	73.00	1062	92.00	874	174.00	29200
51.00	1769	74.00	4068	93.00	1082	175.00	2075
56.00	206	75.00	14018	94.00	2193	176.00	28904
57.00	814	76.00	1329	95.00	31464	177.00	2073
60.00	174	78.00	102	96.00	2333		

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4180.D

Page 4

Date : 29-DEC-2002 14:59

Client ID: BFB6R

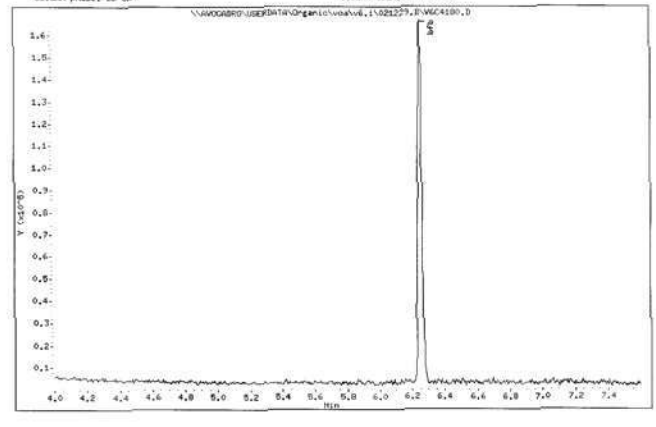
Instrument: v6.i

Sample Info: 8260,V6T1229A,BFB6R

Operator: KEN

Column phase: DB-624

Column diameter: 0.25



Data File: \\NVOCARRO\USERDATA\Organic\voa\v6.1\021231.B\V6C4240.D Page 2

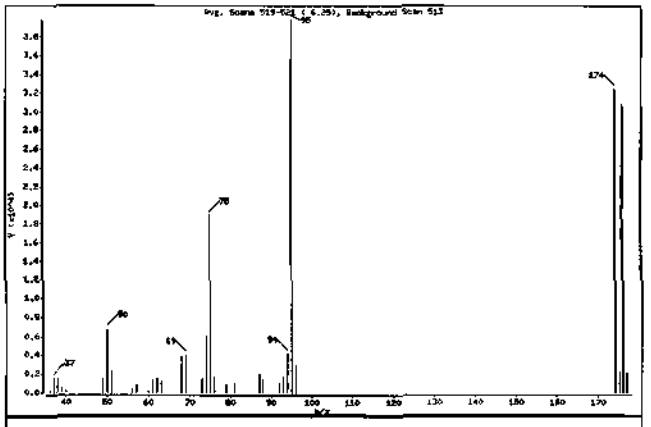
Date : 31-DEC-2002 09:09

Client ID: BF36U Instrument: v6.1

Sample Info: 8260,V6T1231A,BF36U Operator: KDN

Column phase: DB-624 Column diameter: 0.25

1 Info



m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
1	1	1
96	Base Peak, 100% relative abundance	100.00
80	15.00 - 40.00% of mass 96	16.67
75	30.00 - 60.00% of mass 96	47.62
96	5.00 - 9.00% of mass 96	7.26
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 200.00% of mass 96	81.37
175	5.00 - 9.00% of mass 174	6.66 (8.18)
176	95.00 - 101.00% of mass 174	77.43 (95.16)
177	5.00 - 9.00% of mass 176	5.37 (6.94)

Data File: \\NVOCARRO\USERDATA\Organic\voa\v6.1\021231.B\V6C4240.D Page 3

Date : 31-DEC-2002 09:09

Client ID: BF36U Instrument: v6.1

Sample Info: 8260,V6T1231A,BF36U Operator: KDN

Column phase: DB-624 Column diameter: 0.25

Data File: V6C4240.D
Spectrum: Avg, Scans 519-521 (6.25), Background Scan 513
Location of Maximum: 95.00
Number of Points: 33

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	187	57.00	839	78.00	18904	95.00	39980
37.00	1528	60.00	172	76.00	1668	96.00	2996
38.00	1615	61.00	1389	79.00	844	174.00	32448
39.00	444	62.00	1498	81.00	961	175.00	2287
40.00	187	63.00	1300	87.00	1983	176.00	30680
49.00	1462	68.00	3899	88.00	1481	177.00	2142
50.00	4727	69.00	3933	92.00	1913		
51.00	2284	72.00	1428	93.00	1666		
56.00	393	74.00	6041	94.00	4151		

Data File: \\NVOCARRO\USERDATA\Organic\voa\v6.1\021231.B\V6C4240.D Page 1

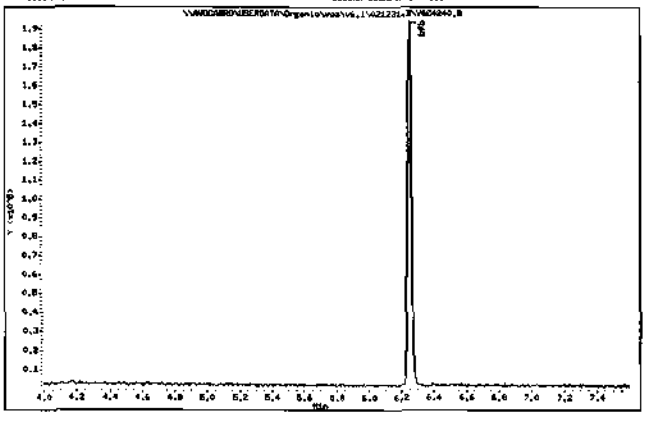
Date : 31-DEC-2002 09:09

Client ID: BF36U Instrument: v6.1

Sample Info: 8260,V6T1230A,BF36U

Column phase: DB-624 Operator: KDN

Column diameter: 0.25



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK1K

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: V1B1230A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1876

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	12	
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U
127-18-4	Tetrachloroethene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK1K

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: V1B1230A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1876

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U
107-13-1	Acrylonitrile	5	U

FORM I VOA OLM03.0

0 0587

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK1K

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: V1B1230A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1876

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

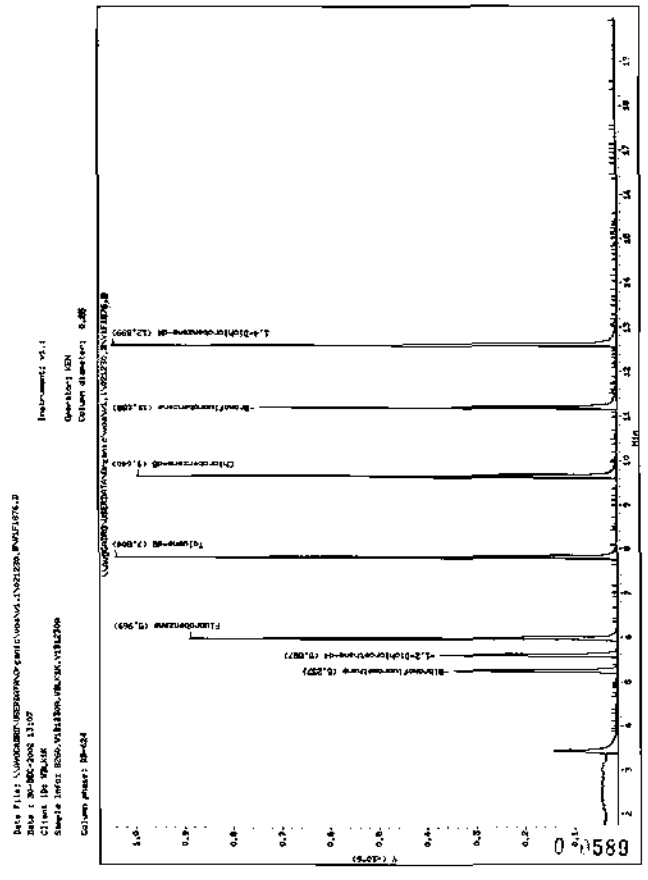
Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

0 0588



0 0589

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1876.D
Report Date: 09-Jan-2003 16:24

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1876.D
Lab Smp Id: V1B1230A Client Smp ID: VBLK1K
Inj Date : 30-DEC-2002 13:07
Operator : KEN Inst ID: v1.i
Smp Info : 8260,V1B1230A,VBLK1K,V1B1230A
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

Compound	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
24 Methylene Chloride	84	5.423	5.431	(0.874)	108587	11.6856	12
$ 30 Dibromofluoromethane	111	6.227	6.228	(0.857)	256292	47.5994	47
$ 31 1,2-Dichloroethane-d4	102	6.587	6.584	(0.938)	93428	44.9264	44
* 36 Fluorobenzene	96	8.363	8.357	(1.000)	1017305	50.3960	
$ 47 Toluene-d8	98	7.804	7.801	(0.810)	861623	48.9999	49
* 57 Chlorobenzene-d5	117	9.840	9.838	(1.000)	890982	50.0000	
$ 69 Bromofluorobenzene	95	11.188	11.187	(1.161)	351434	48.3459	48
* 81 1,4-Dichlorobenzene-d4	150	12.599	12.597	(1.000)	353111	50.0000	

0 0590

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1876.D
Report Date: 09-Jan-2003 16:24

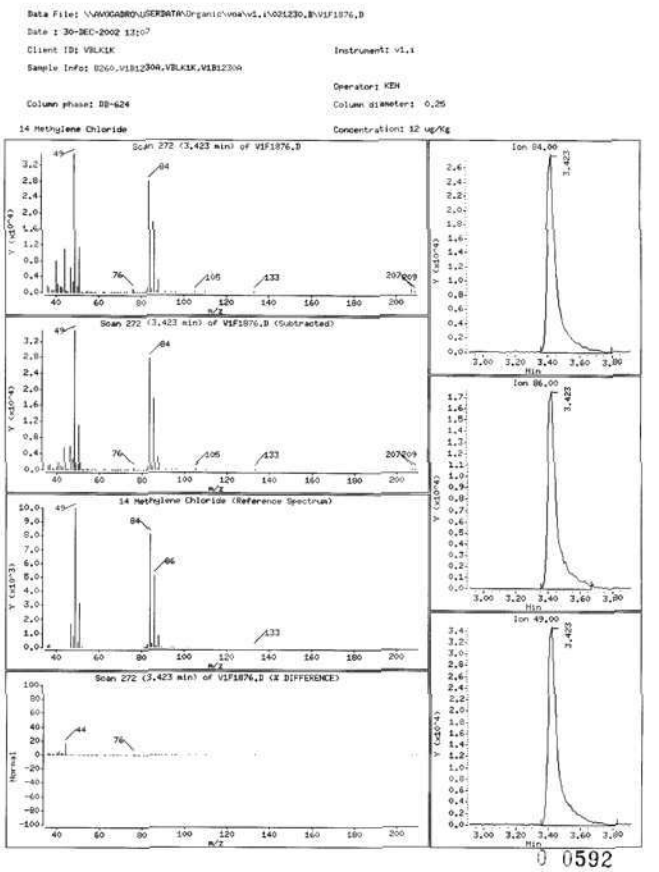
Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1876.D
Lab Smp Id: V1B1230A Client Smp ID: VBLK1K
Inj Date : 30-DEC-2002 13:07
Operator : KEN Inst ID: v1.i
Smp Info : 8260,V1B1230A,VBLK1K,V1B1230A
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 6 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

0 0591



0 0592

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK1L

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: V1B1231A
Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1902
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 12/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	7	
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U
127-18-4	Tetrachloroethene	5	U

FORM I VOA OLM03.0

0 0593

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK1L

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: V1B1231A
Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1902
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 12/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U
107-13-1	Acrylonitrile	5	U

FORM I VOA OLM03.0

0 0594

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK1L

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: V1B1231A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1902

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

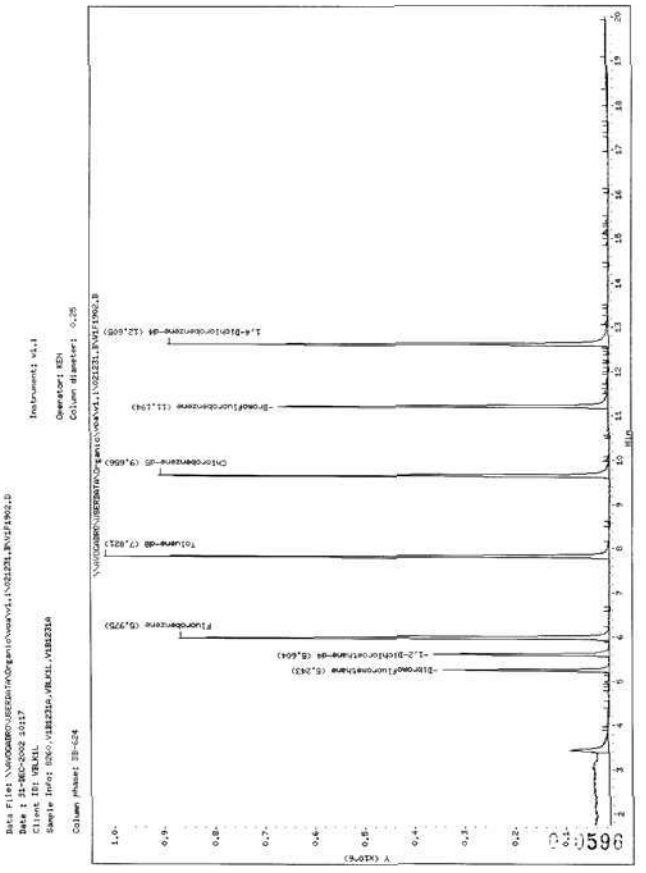
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

0 0595



0 0596

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1902.D
Report Date: 10-Jan-2003 10:58

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1902.D
Lab Smp Id: V1B1231A Client Smp ID: VBLK1L
Inj Date : 31-DEC-2002 10:17
Operator : KEN Inst ID: v1.i
Smp Info : 8260,V1B1231A,VBLK1L,V1B1231A
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\v18260H.m
Meth Date : 10-Jan-2003 10:58 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

Compounds	QUANT EIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
14 Methylene Chloride	84	3.429	3.422	(0.574)	19742	6.82466	7
$ 30 Dibromofluoromethane	113	5.243	5.236	(0.878)	252528	47.5362	48
$ 35 1,2-Dichloroethane-d4	102	5.604	5.597	(0.938)	56990	45.5661	46
* 38 Fluorobenzene	96	5.975	5.979	(1.000)	856351	50.0000	
$ 47 Toluene-d8	98	7.821	7.814	(0.810)	818254	48.7211	49
* 57 Chlorobenzene-d5	117	9.666	9.649	(1.000)	650148	50.0000	
$ 68 Bromofluorobenzene	95	11.194	11.198	(1.159)	312517	45.0024	45
* 81 1,4-Dichlorobenzene-d4	152	12.614	12.609	(1.000)	325157	50.0000	

1/10/03

0 0597

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1902.D
Report Date: 10-Jan-2003 10:58

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1902.D
Lab Smp Id: V1B1231A Client Smp ID: VBLK1L
Inj Date : 31-DEC-2002 10:17
Operator : KEN Inst ID: v1.i
Smp Info : 8260,V1B1231A,VBLK1L,V1B1231A
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\v18260H.m
Meth Date : 10-Jan-2003 10:58 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

0 0598

Data File: \\AVOGADRO\USERDATA\Organic\wsa\v1.i\021231.B\V1F1902.D

Date : 31-DEC-2002 10:17

Client ID: VBLK1L

Instrument: v1.i

Sample Info: 8260,V1B1231A,VBLK1L,V1B1231A

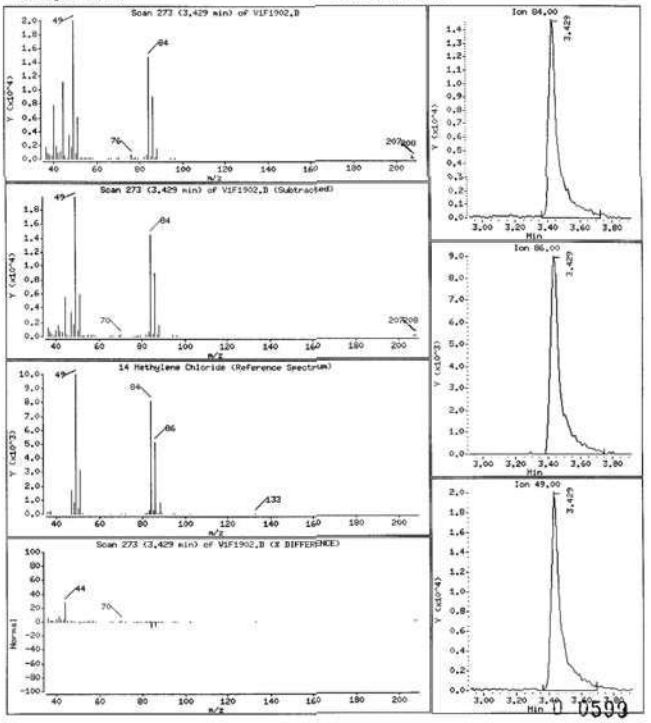
Operator: KEN

Column phase: DB-624

Column diameter: 0.25

14 Methylene Chloride

Concentration: 7 ug/Kg



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK6R

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: V6B1229A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4182

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/29/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-09-2	Methylene Chloride	5	U
107-13-1	Acrylonitrile	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
109-99-9	Tetrahydrofuran	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
142-28-9	1,3-Dichloropropane	5	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK6R

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: V6B1229A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4182

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/29/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U
544-10-5	1-Chlorohexane	5	U

FORM I VOA OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK6R

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: V6B1229A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4182

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/29/02

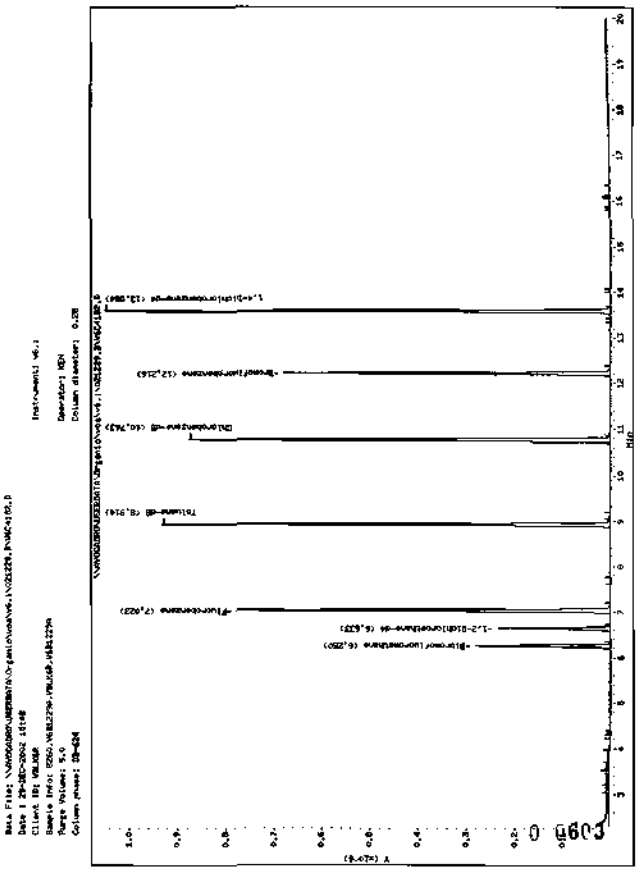
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4182.D
Report Date: 09-Jan-2003 12:36

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4182.D
Lab Smp Id: V6B1229A Client Smp ID: VBLK6R
Inj Date : 29-DEC-2002 15:48
Operator : KEN Inst ID: v6.i
Smp Info : 8260,V6B1229A,VBLK6R,V6B1229A
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\v68260.m
Meth Date : 09-Jan-2003 12:27 mtl Quant Type: ISTD
Cal Date : 24-DEC-2002 17:54 Cal File: V6C4111.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
10 Dibromofluoromethane	113	6.250	6.248	(0.880)	836607	47.4784	47
35 1,2-Dichloroethane-d4	102	6.833	6.837	(0.965)	57686	44.9777	45
3A Fluorobenzene	96	7.023	7.023	(1.000)	1108888	50.0000	
47 Toluene-d8	98	8.320	8.313	(0.828)	1033233	49.3581	49
57 Chlorobenzene-d5	117	10.769	10.761	(1.000)	857579	50.0000	
68 Bromofluorobenzene	95	12.218	12.225	(1.134)	361880	64.1878	65
81 1,4-Dichlorobenzene-d4	152	12.584	12.589	(1.000)	883590	50.0000	

1/9/03

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4182.D
Report Date: 09-Jan-2003 12:36

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4182.D
Lab Smp Id: V6B1229A Client Smp ID: VBLK6R
Inj Date : 29-DEC-2002 15:48
Operator : KEN Inst ID: v6.i
Smp Info : 8260,V6B1229A,VBLK6R,V6B1229A
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\v68260.m
Meth Date : 09-Jan-2003 12:27 mtl Quant Type: ISTD
Cal Date : 24-DEC-2002 17:54 Cal File: V6C4111.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK6U

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: V6B1231A
Sample wt/vol: 5.0 (g/mL) G Lab File ID: V6C4242
Level: (low/med) MED Date Received:
% Moisture: not dec. Date Analyzed: 12/31/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	250	U
74-87-3	Chloromethane	250	U
75-01-4	Vinyl Chloride	250	U
74-83-9	Bromomethane	250	U
75-00-3	Chloroethane	250	U
75-69-4	Trichlorofluoromethane	250	U
75-35-4	1,1-Dichloroethene	250	U
67-64-1	Acetone	250	U
75-09-2	Methylene Chloride	82	J
107-13-1	Acrylonitrile	250	U
156-60-5	trans-1,2-Dichloroethene	250	U
1634-04-4	Methyl tert-butyl ether	250	U
75-34-3	1,1-Dichloroethane	250	U
78-93-3	2-Butanone	250	U
156-59-2	cis-1,2-Dichloroethene	250	U
590-20-7	2,2-Dichloropropane	250	U
74-97-5	Bromochloromethane	250	U
67-66-3	Chloroform	250	U
109-99-9	Tetrahydrofuran	250	U
71-55-6	1,1,1-Trichloroethane	250	U
563-58-6	1,1-Dichloropropene	250	U
56-23-5	Carbon Tetrachloride	250	U
107-06-2	1,2-Dichloroethane	250	U
71-43-2	Benzene	250	U
79-01-6	Trichloroethene	250	U
78-87-5	1,2-Dichloropropane	250	U
74-95-3	Dibromomethane	250	U
75-27-4	Bromodichloromethane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
108-10-1	4-Methyl-2-pentanone	250	U
108-88-3	Toluene	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
79-00-5	1,1,2-Trichloroethane	250	U
142-28-9	1,3-Dichloropropane	250	U

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK6U

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: V6B1231A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V6C4242

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	250	U
591-78-6	2-Hexanone	250	U
124-48-1	Dibromochloromethane	250	U
106-93-4	1,2-Dibromoethane	250	U
108-90-7	Chlorobenzene	250	U
630-20-6	1,1,1,2-Tetrachloroethane	250	U
100-41-4	Ethylbenzene	250	U
----------	m,p-Xylene	250	U
95-47-6	o-Xylene	250	U
1330-20-7	Xylene (Total)	250	U
100-42-5	Styrene	250	U
75-25-2	Bromoform	250	U
98-82-8	Isopropylbenzene	250	U
79-34-5	1,1,2,2-Tetrachloroethane	250	U
108-86-1	Bromobenzene	250	U
96-18-4	1,2,3-Trichloropropane	250	U
103-65-1	n-Propylbenzene	250	U
95-49-8	2-Chlorotoluene	250	U
108-67-8	1,3,5-Trimethylbenzene	250	U
106-43-4	4-Chlorotoluene	250	U
98-06-6	tert-Butylbenzene	250	U
95-63-6	1,2,4-Trimethylbenzene	250	U
135-98-8	sec-Butylbenzene	250	U
99-87-6	4-Isopropyltoluene	250	U
541-73-1	1,3-Dichlorobenzene	250	U
106-46-7	1,4-Dichlorobenzene	250	U
104-51-8	n-Butylbenzene	250	U
95-50-1	1,2-Dichlorobenzene	250	U
96-12-8	1,2-Dibromo-3-chloropropane	250	U
120-82-1	1,2,4-Trichlorobenzene	250	U
87-68-3	Hexachlorobutadiene	250	U
91-20-3	Naphthalene	250	U
87-61-6	1,2,3-Trichlorobenzene	250	U
544-10-5	1-Chlorohexane	250	U

FORM I VOA OLM03.0

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK6U

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: V6B1231A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V6C4242

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/31/02

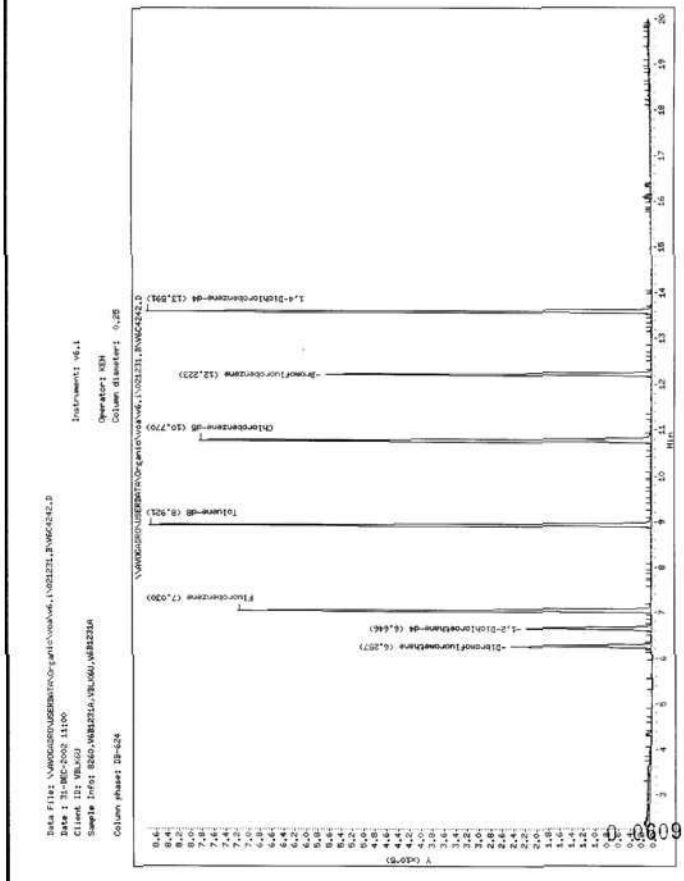
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\V6C4242.D
Report Date: 09-Jan-2003 12:55

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\V6C4242.D
Lab Smp Id: V6B1231A Client Smp ID: VBLK6U
Inj Date : 31-DEC-2002 11:00
Operator : KEN Inst ID: v6.i
Smp Info : 8260,V6B1231A,VBLK6U,V6B1231A
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\v68260.m
Meth Date : 09-Jan-2003 12:50 mtl Quant Type: ISTD
Cal Date : 24-DEC-2002 17:54 Cal File: V6C4111.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf*(Vt*5000)/(Va*Ws*((100-M)/100))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)
Vt	5.000	Methanol extract volume (mL)
Va	100.000	Aliquot of methanol (uL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
	14 Methylene Chloride	84	4.329	4.327 (0.616)		8902	1.64319	82(a)
S	30 Dibromofluoromethane	113	6.257	6.248 (0.890)		208577	47.2597	2400
S	35 1,2-Dichloroethane-d4	102	6.646	6.638 (0.945)		50187	42.5964	2100
*	38 Fluorobenzene	96	7.039	7.027 (1.000)		986212	50.0000	
S	47 Toluene-d8	98	8.921	8.918 (0.828)		900981	51.2455	2600
*	57 Chlorobenzene-d5	117	10.770	10.767 (1.000)		725511	50.0000	
S	68 Bromofluorobenzene	95	12.223	12.220 (1.135)		288160	45.0207	2200
*	91 1,4-Dichlorobenzene-d4	152	13.094	13.089 (1.000)		791883	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

1/9/03

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\V6C4242.D
Report Date: 09-Jan-2003 12:55

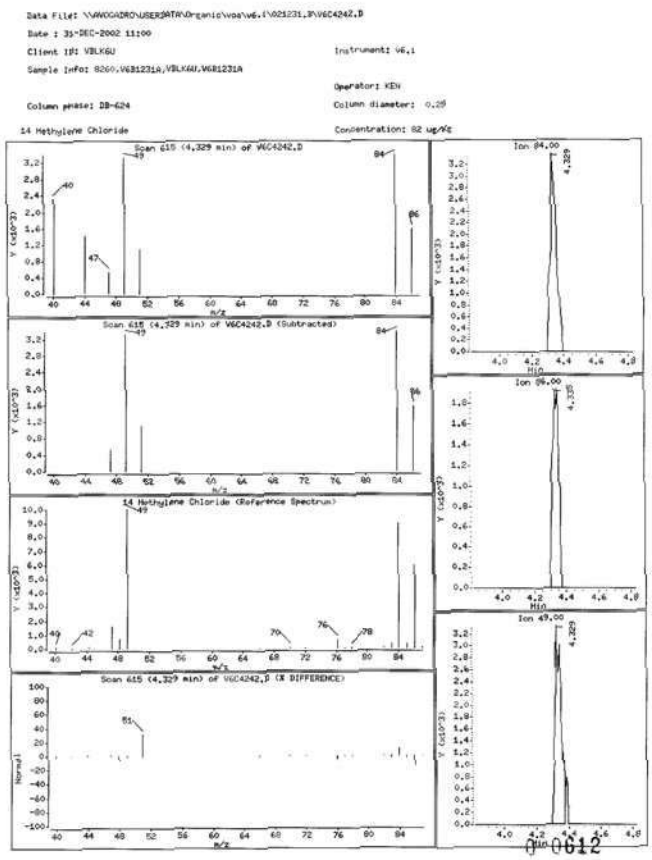
Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\V6C4242.D
Lab Smp Id: V6B1231A Client Smp ID: VBLK6U
Inj Date : 31-DEC-2002 11:00
Operator : KEN Inst ID: v6.i
Smp Info : 8260,V6B1231A,VBLK6U,V6B1231A
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\v68260.m
Meth Date : 09-Jan-2003 12:50 mtl Quant Type: ISTD
Cal Date : 24-DEC-2002 17:54 Cal File: V6C4111.D
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

0 0611



0 0612

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: V1KLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: V1L1230A
Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1877
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	45	
74-87-3	Chloromethane	48	
75-01-4	Vinyl Chloride	48	
74-83-9	Bromomethane	42	
75-00-3	Chloroethane	44	
75-69-4	Trichlorofluoromethane	48	
75-35-4	1,1-Dichloroethene	48	
67-64-1	Acetone	45	
75-09-2	Methylene Chloride	45	B
156-60-5	trans-1,2-Dichloroethene	48	
1634-04-4	Methyl tert-butyl ether	55	
75-34-3	1,1-Dichloroethane	49	
78-93-3	2-Butanone	55	
156-59-2	cis-1,2-Dichloroethene	49	
590-20-7	2,2-Dichloropropane	48	
74-97-5	Bromochloromethane	50	
67-66-3	Chloroform	50	
109-99-9	Tetrahydrofuran	56	
71-55-6	1,1,1-Trichloroethane	48	
563-58-6	1,1-Dichloropropene	47	
56-23-5	Carbon Tetrachloride	47	
107-06-2	1,2-Dichloroethane	53	
71-43-2	Benzene	49	
79-01-6	Trichloroethene	48	
78-87-5	1,2-Dichloropropane	50	
74-95-3	Dibromomethane	51	
75-27-4	Bromodichloromethane	50	
10061-01-5	cis-1,3-Dichloropropene	50	
108-10-1	4-Methyl-2-pentanone	55	
108-88-3	Toluene	48	
10061-02-6	trans-1,3-Dichloropropene	52	
79-00-5	1,1,2-Trichloroethane	50	
142-28-9	1,3-Dichloropropane	51	
127-18-4	Tetrachloroethene	46	

FORM I VOA OLM03.0

0 0613

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

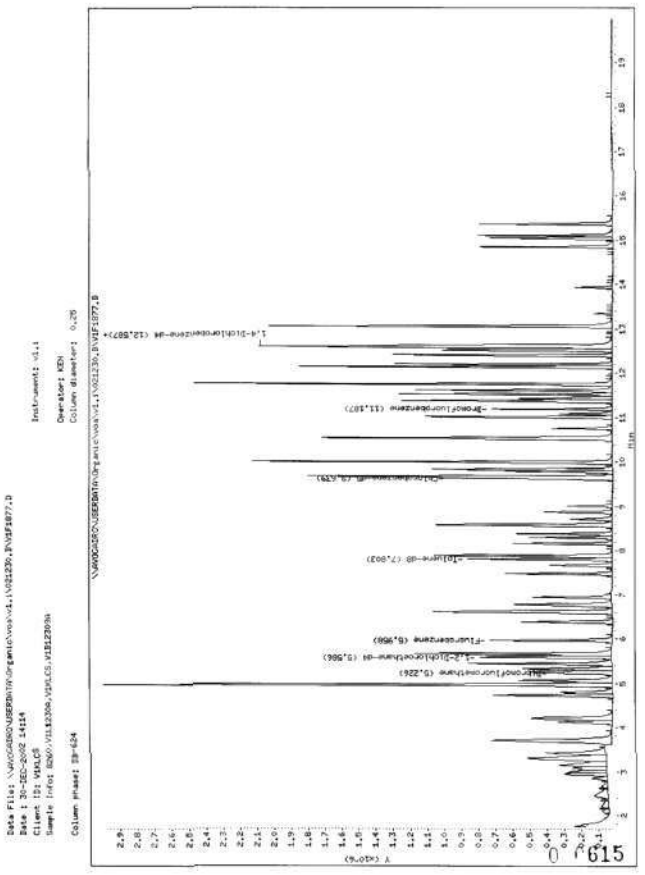
EPA SAMPLE NO.: V1KLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: V1L1230A
Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1877
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 12/30/02
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	57	
124-48-1	Dibromochloromethane	50	
106-93-4	1,2-Dibromoethane	51	
108-90-7	Chlorobenzene	47	
630-20-6	1,1,1,2-Tetrachloroethane	49	
100-41-4	Ethylbenzene	47	
----------	m,p-Xylene	92	
95-47-6	o-Xylene	47	
1330-20-7	Xylene (Total)	140	
100-42-5	Styrene	50	
75-25-2	Bromoform	51	
98-82-8	Isopropylbenzene	47	
79-34-5	1,1,2,2-Tetrachloroethane	48	
108-86-1	Bromobenzene	47	
96-18-4	1,2,3-Trichloropropane	48	
103-65-1	n-Propylbenzene	45	
95-49-8	2-Chlorotoluene	46	
108-67-8	1,3,5-Trimethylbenzene	46	
106-43-4	4-Chlorotoluene	45	
98-06-6	tert-Butylbenzene	43	
95-63-6	1,2,4-Trimethylbenzene	46	
135-98-8	sec-Butylbenzene	45	
99-87-6	4-Isopropyltoluene	45	
541-73-1	1,3-Dichlorobenzene	46	
106-46-7	1,4-Dichlorobenzene	46	
104-51-8	n-Butylbenzene	45	
95-50-1	1,2-Dichlorobenzene	45	
96-12-8	1,2-Dibromo-3-chloropropane	48	
120-82-1	1,2,4-Trichlorobenzene	46	
87-68-3	Hexachlorobutadiene	46	
91-20-3	Naphthalene	43	
87-61-6	1,2,3-Trichlorobenzene	44	
544-10-5	1-Chlorohexane	45	
107-13-1	Acrylonitrile	220	

FORM I VOA OLM03.0

0 0614



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1877.D
Report Date: 09-Jan-2003 15:16

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1877.D
Lab Smp Id: V1L1230A Client Smp ID: V1KLCS
Inj Date : 30-DEC-2002 14:14
Operator : KEN Inst ID: v1.i
Smp Info : 8260,V1L1230A,V1KLCS,V1B12309A
Misc Info : ,3,,LCS
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
	1 Dichlorodifluoromethane	85	1.502	1.502	(0.252)	315546	45.1504	45
	2 Chloromethane	50	1.683	1.672	(0.282)	443015	48.4066	48
	3 Vinyl Chloride	62	1.789	1.788	(0.300)	329342	48.2956	48
	4 Bromomethane	94	2.107	2.117	(0.354)	99503	41.6096	42
	5 Chloroethane	64	2.234	2.223	(0.375)	141361	44.2312	44
	6 Trichlorofluoromethane	101	2.436	2.435	(0.409)	266230	47.6665	48
	8 1,1-Dichloroethene	96	2.934	2.934	(0.493)	287768	48.5269	48
	9 Acetone	43	2.998	2.998	(0.503)	116003	45.3513	45
	14 Methylene Chloride	84	3.412	3.411	(0.573)	318037	45.4620	45
	116 Acrylonitrile	53	3.666	3.655	(0.615)	494875	216.276	220
	16 trans-1,2-Dichloroethene	96	3.698	3.698	(0.621)	243860	47.9648	48
	17 Methyl tert-butyl ether	73	3.719	3.708	(0.624)	412133	54.6742	55
	18 1,1-Dichloroethane	63	4.122	4.122	(0.692)	445628	49.4385	49
	22 2-Butanone	43	4.748	4.748	(0.797)	192768	54.6178	55
	28 Tetrahydrofuran	72	5.035	5.034	(0.845)	42962	55.9483	56

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1877.D
Report Date: 09-Jan-2003 15:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
	21 cis-1,2-Dichloroethene	96	4.727	4.716	(0.793)	256727	49.0310	49
	24 2,2-Dichloropropane	77	4.717	4.716	(0.792)	237984	48.2777	48
	27 Bromochloromethane	128	4.971	4.971	(0.834)	146190	49.8256	50
	28 Chloroform	83	5.067	5.055	(0.850)	449151	50.2233	50
S	30 Dibromofluoromethane	113	5.226	5.225	(0.877)	220050	48.7651	49
	31 1,1,1-Trichloroethane	97	5.258	5.257	(0.882)	294708	47.8371	48
	32 1,1-Dichloropropene	110	5.438	5.437	(0.913)	98553	47.4487	47
	33 Carbon Tetrachloride	117	5.438	5.437	(0.913)	253759	47.2089	47
S	35 1,2-Dichloroethane-d4	102	5.586	5.586	(0.938)	54357	51.1643	51
	37 Benzene	78	5.650	5.649	(0.948)	950089	49.0881	49
	38 1,2-Dichloroethane	62	5.671	5.660	(0.952)	377334	52.6432	53
*	39 Fluorobenzene	96	5.958	5.957	(1.000)	812360	50.0000	
	39 Trichloroethene	130	6.382	6.381	(1.071)	215992	47.7498	48
	40 1,2 Dichloropropane	63	6.615	6.615	(1.110)	253675	49.5794	50
	42 Dibromomethane	93	6.753	6.753	(1.134)	182907	51.4315	51
	45 Bromodichloromethane	83	6.944	6.944	(1.166)	357100	50.5985	50
	45 cis-1,3-Dichloropropene	75	7.475	7.474	(1.255)	427410	50.5878	50
	46 4-Methyl-2-pentanone	43	7.665	7.665	(1.287)	369452	55.1929	55
S	47 Toluene-d8	98	7.803	7.803	(1.310)	672869	45.4318	45
	48 Toluene	91	7.888	7.888	(1.324)	903572	47.7628	48
	49 trans-1,3-Dichloropropene	75	8.164	8.153	(1.370)	397621	51.8211	52
	51 1,1,2-Trichloroethane	97	8.387	8.376	(1.408)	219465	50.5927	50
	52 1,3-Dichloropropane	76	8.588	8.588	(0.891)	403141	50.9074	51
	53 Tetrachloroethene	164	8.578	8.577	(0.890)	182712	46.2180	46
	54 2-Hexanone	43	8.716	8.715	(0.904)	264528	56.8424	57
	55 Dibromochloromethane	129	8.885	8.874	(0.922)	264530	50.1937	50
	56 1,2-Dibromoethane	107	9.013	9.012	(0.935)	239390	51.4924	51
	115 1-Chlorohexane	91	9.670	9.670	(1.003)	325081	45.4828	45(Q)
*	57 Chlorobenzene-d5	117	9.639	9.638	(1.000)	573340	50.0000	
	58 Chlorobenzene	112	9.670	9.670	(1.003)	594865	46.7493	47
	59 1,1,1,2-Tetrachloroethane	131	9.787	9.786	(1.015)	213686	48.6470	49(Q)
	60 Ethylbenzene	106	9.840	9.829	(1.021)	289413	47.0581	47
	61 m,p-Xylene	106	9.999	9.999	(1.037)	768240	92.4401	92
	62 o-Xylene	106	10.519	10.518	(1.091)	374684	46.8213	47
	64 Styrene	104	10.540	10.529	(1.094)	563820	50.0443	50
	65 Bromoform	173	10.752	10.752	(1.116)	202428	51.0467	51
	66 Isopropylbenzene	105	11.007	10.996	(1.142)	885494	46.9060	47
S	68 Bromofluorobenzene	95	11.197	11.187	(1.161)	288000	47.0288	47
	69 1,1,2,2-Tetrachloroethane	83	11.378	11.367	(0.953)	360387	48.0795	48
	70 Bromobenzene	156	11.368	11.356	(0.952)	283133	47.2234	47(Q)
	71 1,2,3-Trichloropropane	75	11.421	11.409	(0.957)	355176	48.3555	48(Q)
	72 n-Propylbenzene	120	11.527	11.526	(0.915)	236576	45.4350	45
	73 2-Chlorotoluene	126	11.612	11.611	(0.922)	225704	45.9067	46
	74 1,3,5-Trimethylbenzene	105	11.749	11.749	(0.933)	788062	45.5417	46
	75 4-Chlorotoluene	126	11.749	11.749	(0.933)	244701	45.3142	45(Q)
	76 tert-Butylbenzene	119	12.142	12.141	(0.964)	727502	43.1634	43
	77 1,2,4-Trimethylbenzene	105	12.195	12.194	(0.968)	797714	46.1438	46

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1877.D
Report Date: 09-Jan-2003 15:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
	78 sec-Butylbenzene	105	12.407	12.407	(0.985)	993267	48.6054	45
	80 1,3-Dichlorobenzene	146	12.524	12.513	(0.994)	471490	46.0144	46
	79 4 Isopropyltoluene	119	12.567	12.587	(0.999)	795549	45.3126	45
*	81 1,4-Dichlorobenzene-d4	152	12.598	12.597	(1.000)	342965	50.0000	
	82 1,4-Dichlorobenzene	146	12.630	12.619	(1.003)	524181	46.5644	46
	83 n-Butylbenzene	91	13.065	13.054	(1.037)	948716	45.0371	45
	84 1,2-Dichlorobenzene	146	13.054	13.054	(1.036)	480569	45.2978	45
M	63 Xylene (Total)	106				1146924	139.261	140
	86 1,2-Dibromo-3-chloropropane	75	13.935	13.923	(1.106)	66304	48.4463	48
	87 1,2,4-Trichlorobenzene	180	14.857	14.846	(1.179)	300198	45.7967	46
	88 Hexachlorobutadiene	225	15.048	15.048	(1.195)	139069	46.4155	46
	89 Naphthalene	128	15.112	15.101	(1.200)	703778	43.2811	43
	90 1,2,3-Trichlorobenzene	180	15.377	15.366	(1.221)	279933	44.5461	44

QC Flag Legend

Q - Qualifier signal failed the ratio test.

1/9/03

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V1KLCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: V1L1230B

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1878

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	42	
74-87-3	Chloromethane	49	
75-01-4	Vinyl Chloride	48	
74-83-9	Bromomethane	44	
75-00-3	Chloroethane	45	
75-69-4	Trichlorofluoromethane	46	
75-35-4	1,1-Dichloroethene	50	
67-64-1	Acetone	44	
75-09-2	Methylene Chloride	47	B
156-60-5	trans-1,2-Dichloroethene	49	
1634-04-4	Methyl tert-butyl ether	35	
75-34-3	1,1-Dichloroethane	51	
78-93-3	2-Butanone	52	
156-59-2	cis-1,2-Dichloroethene	50	
590-20-7	2,2-Dichloropropane	47	
74-97-5	Bromochloromethane	51	
67-66-3	Chloroform	51	
109-99-9	Tetrahydrofuran	54	
71-55-6	1,1,1-Trichloroethane	49	
563-58-6	1,1-Dichloropropene	49	
56-23-5	Carbon Tetrachloride	49	
107-06-2	1,2-Dichloroethane	54	
71-43-2	Benzene	50	
79-01-6	Trichloroethene	50	
78-87-5	1,2-Dichloropropane	51	
74-95-3	Dibromomethane	52	
75-27-4	Bromodichloromethane	52	
10061-01-5	cis-1,3-Dichloropropene	52	
108-10-1	4-Methyl-2-pentanone	52	
108-88-3	Toluene	50	
10061-02-6	trans-1,3-Dichloropropene	52	
79-00-5	1,1,2-Trichloroethane	52	
142-28-9	1,3-Dichloropropane	52	
127-18-4	Tetrachloroethene	50	

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V1KLCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: V1L1230B

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1878

Level: (low/med) LOW Date Received: _____

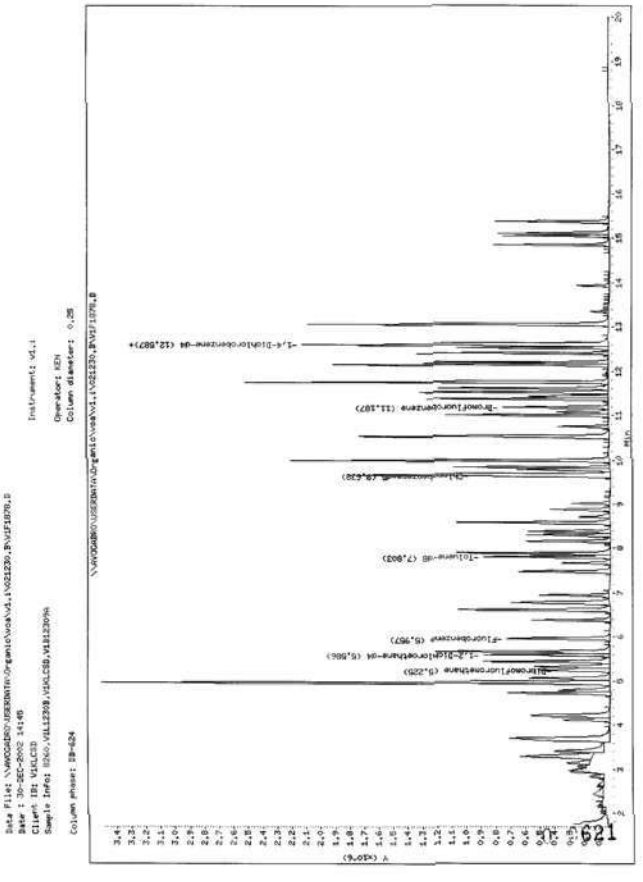
% Moisture: not dec. _____ Date Analyzed: 12/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	53	
124-48-1	Dibromochloromethane	51	
106-93-4	1,2-Dibromoethane	52	
108-90-7	Chlorobenzene	49	
630-20-6	1,1,1,2-Tetrachloroethane	50	
100-41-4	Ethylbenzene	50	
----------	m,p-Xylene	97	
95-47-6	o-Xylene	48	
1330-20-7	Xylene (Total)	140	
100-42-5	Styrene	50	
75-25-2	Bromoform	51	
98-82-8	Isopropylbenzene	49	
79-34-5	1,1,2,2-Tetrachloroethane	48	
108-86-1	Bromobenzene	49	
96-18-4	1,2,3-Trichloropropane	50	
103-65-1	n-Propylbenzene	48	
95-49-8	2-Chlorotoluene	48	
108-67-8	1,3,5-Trimethylbenzene	47	
106-43-4	4-Chlorotoluene	48	
98-06-6	tert-Butylbenzene	46	
95-63-6	1,2,4-Trimethylbenzene	48	
135-98-8	sec-Butylbenzene	47	
99-87-6	4-Isopropyltoluene	47	
541-73-1	1,3-Dichlorobenzene	48	
106-46-7	1,4-Dichlorobenzene	48	
104-51-8	n-Butylbenzene	47	
95-50-1	1,2-Dichlorobenzene	47	
96-12-8	1,2-Dibromo-3-chloropropane	48	
120-82-1	1,2,4-Trichlorobenzene	47	
87-68-3	Hexachlorobutadiene	49	
91-20-3	Naphthalene	44	
87-61-6	1,2,3-Trichlorobenzene	46	
544-10-5	1-Chlorohexane	47	
107-13-1	Acrylonitrile	260	

FORM I VOA OLM03.0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1878.D
Report Date: 09-Jan-2003 15:17

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1878.D
Lab Smp Id: V1L1230B Client Smp ID: V1KLCSD
Inj Date : 30-DEC-2002 14:45
Operator : KEN Inst ID: v1.i
Smp Info : 8260,V1L1230B,V1KLCSD,V1B12309A
Misc Info : ,3,,LCSD
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\v18260H.m
Meth Date : 09-Jan-2003 14:57 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 8 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
1 Dichlorodifluoromethane	85	1.502	1.502	(0.252)	197864	42.0868	42
2 Chloromethane	50	1.683	1.672	(0.282)	441405	48.7598	49
3 Vinyl Chloride	62	1.778	1.788	(0.298)	321803	47.7078	48
4 Bromomethane	94	2.107	2.117	(0.354)	104654	44.2435	44
5 Chloroethane	64	2.224	2.223	(0.373)	142759	45.2226	45
6 Trichlorofluoromethane	101	2.436	2.435	(0.409)	254995	46.1558	46
8 1,1-Dichloroethene	96	2.534	2.534	(0.493)	295862	50.4391	50
9 Acetone	43	2.998	2.998	(0.503)	110229	43.5632	44
14 Methylene Chloride	84	3.412	3.411	(0.573)	346137	47.0620	47
116 Acrylonitrile	53	3.666	3.655	(0.615)	583026	257.596	260
16 trans-1,2-Dichloroethene	96	3.698	3.698	(0.621)	247977	49.3501	49
17 Methyl tert-butyl ether	73	3.719	3.708	(0.624)	262252	35.1724	35
18 1,1-Dichloroethane	63	4.122	4.122	(0.692)	455636	51.1101	51
22 2-Butanone	43	4.748	4.748	(0.797)	180665	51.7502	52
29 Tetrahydrofuran	72	5.035	5.034	(0.845)	40792	53.7061	54

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1878.D
Report Date: 09-Jan-2003 15:17

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
23 cis-1,2 Dichloroethene	96	4.727	4.716	(0.795)	236430	49.9363	80
24 2,2-Dichloropropane	77	4.914	4.918	(0.792)	227924	46.7492	47
27 Bromochloromethane	128	4.931	4.931	(0.854)	147161	46.7585	65
28 Chloroform	83	5.066	5.055	(0.860)	415968	51.3222	82
F 30 Dibromofluoromethane	113	5.225	5.228	(0.877)	223856	49.9611	80
31 1,1,1-Trichloroethane	97	5.293	5.287	(0.882)	298459	49.1366	69
32 1,1-Dichloropropene	110	5.438	5.439	(0.913)	304719	49.0259	69
33 Carbon Tetrachloride	117	5.438	5.437	(0.913)	286132	48.9261	69
$ 35 1,2-Dichloroethane-d4	102	5.586	5.586	(0.938)	62779	50.2269	80
37 Benzene	78	5.650	5.649	(0.948)	944811	54.3954	66
38 1,2-Dichloroethane	62	5.671	5.669	(0.952)	385810	53.7159	54
* 39 Fluorobenzene	96	5.997	5.997	(1.000)	803548	50.0000	
39 Trichloroethene	130	6.182	6.181	(1.072)	271866	49.5844	50
40 1,2 Dichloropropane	63	6.215	6.218	(1.110)	267027	50.7856	91
42 Dibromomethane	93	6.353	6.353	(1.134)	191405	51.5765	52
43 Bromodichloromethane	83	6.544	6.544	(1.166)	364096	51.7890	52
45 cis-1,3-Dichloropropene	75	7.474	7.474	(1.255)	433507	52.1158	52
46 4-Methyl-2-pentanone	43	7.665	7.665	(1.287)	241000	51.9023	92
$ 47 Toluene-d8	98	7.803	7.803	(0.818)	691452	49.5384	66
48 Toluene	91	7.888	7.886	(1.324)	929908	49.4962	98
49 trans-1,3-Dichloropropene	75	8.154	8.153	(1.370)	394479	51.9739	52
51 1,1,2-Trichloroethane	97	8.185	8.176	(1.408)	228154	51.5571	52
52 1,3-Dichloropropane	76	8.349	8.348	(0.881)	404198	52.4230	52
53 Tetrachloroethene	164	8.478	8.477	(0.880)	193286	49.8946	50
54 2-Hexanone	43	8.715	8.715	(0.904)	265367	51.3466	65
55 Dibromochloromethane	129	8.876	8.874	(0.921)	259480	51.3189	52
56 1,2-Dibromoethane	107	9.032	9.032	(0.935)	238797	52.3181	57
115 1-Chlorohexane	91	9.670	9.670	(1.000)	331818	44.8718	47[Q]
* 57 Chlorobenzene-d5	117	9.838	9.838	(1.000)	562154	50.0000	
58 Chlorobenzene	112	9.840	9.839	(1.001)	607134	48.6439	49
59 1,1,1,2-Tetrachloroethane	131	9.767	9.766	(1.011)	218608	49.0643	50[Q]
60 Ethylbenzene	106	9.840	9.839	(1.021)	788831	49.5395	50
61 m,p-Xylene	106	9.999	9.998	(1.037)	788710	96.7868	99
62 o-Xylene	106	10.519	10.518	(1.081)	384217	48.4333	48
64 Styrene	104	10.540	10.539	(1.084)	551088	50.2371	50
65 Bromoform	173	10.753	10.752	(1.116)	187453	50.8181	51
66 Isopropylbenzene	105	11.067	10.966	(2.142)	903487	49.6362	49
* 68 Bromofluorobenzene	95	11.197	11.189	(1.161)	790486	48.3560	48
69 1,1,2,2-Tetrachloroethane	83	11.378	11.367	(0.903)	552002	47.8991	48
70 Bromobenzene	156	11.367	11.356	(0.902)	287582	48.9613	49[Q]
71 1,2,3-Trichloropropane	75	11.428	11.409	(0.907)	242563	50.2478	50[Q]
72 n-Propylbenzene	120	11.526	11.526	(0.915)	967407	48.4658	48
73 2-Chlorotoluene	126	11.631	11.631	(0.922)	338872	47.7098	48
74 1,3,5-Trimethylbenzene	105	11.748	11.748	(0.933)	865071	47.3369	47
75 4-Chlorotoluene	126	11.769	11.769	(0.933)	954851	48.5213	48[Q]
76 tert-Butylbenzene	119	12.142	12.142	(0.964)	788238	46.8076	46
77 1,2,4-Trimethylbenzene	105	12.195	12.194	(0.968)	806846	47.4453	48

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021230.B\V1F1878.D
Report Date: 09-Jan-2003 15:17

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
78 sec-Butylbenzene	105	12.497	12.497	(0.985)	1021408	46.7860	47
80 1,3-Dichlorobenzene	146	12.513	12.513	(0.990)	462791	46.0593	48
79 4-Isopropyltoluene	119	12.587	12.587	(0.989)	813263	47.3464	47
* 81 1,4-Dichlorobenzene-d4	152	12.598	12.597	(1.000)	336243	50.0000	
82 1,4-Dichlorobenzene	146	12.630	12.618	(1.001)	629347	47.9670	48
83 n-Butylbenzene	91	13.054	13.054	(1.017)	869683	47.0881	47
84 1,2-Dichlorobenzene	146	13.064	13.054	(1.036)	483338	47.2386	47
N 85 Xylenes (Total)	106				1172927	145.180	146
86 1,2-Dibromo-3-chloropropane	75	13.824	13.823	(1.106)	66249	47.8832	48
87 1,2,4-Trichlorobenzene	180	14.857	14.846	(1.178)	308736	46.7958	47
88 Hexachlorobutadiene	225	15.008	15.008	(1.190)	163065	48.7038	48
89 Naphthalene	128	15.312	15.301	(1.200)	699731	43.8925	44
90 1,2,3-Trichlorobenzene	180	15.377	15.366	(1.205)	283419	45.5776	46

QC Flag Legend

Q - Qualifier signal failed the ratio test.

(SB) 1/9/03

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: V1LLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: V1LL231A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1903

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	48	
74-87-3	Chloromethane	53	
75-01-4	Vinyl Chloride	53	
74-83-9	Bromomethane	42	
75-00-3	Chloroethane	41	
75-69-4	Trichlorofluoromethane	51	
75-35-4	1,1-Dichloroethene	53	
67-64-1	Acetone	54	
75-09-2	Methylene Chloride	53	B
156-60-5	trans-1,2-Dichloroethene	50	
1634-04-4	Methyl tert-butyl ether	87	
75-34-3	1,1-Dichloroethane	52	
78-93-3	2-Butanone	62	
156-59-2	cis-1,2-Dichloroethene	50	
590-20-7	2,2-Dichloropropane	50	
74-97-5	Bromochloromethane	52	
67-66-3	Chloroform	53	
109-99-9	Tetrahydrofuran	61	
71-55-6	1,1,1-Trichloroethane	50	
563-58-6	1,1-Dichloropropene	51	
56-23-5	Carbon Tetrachloride	50	
107-06-2	1,2 Dichloroethane	56	
71-43-2	Benzene	52	
79-01-6	Trichloroethene	51	
78-87-5	1,2-Dichloropropane	53	
74-95-3	Dibromomethane	55	
75-27-4	Bromodichloromethane	53	
10061-01-5	cis-1,3-Dichloropropene	53	
108-10-1	4-Methyl-2-pentanone	64	
108-88-3	Toluene	51	
10061-02-6	trans-1,3-Dichloropropene	55	
79-00-5	1,1,2-Trichloroethane	54	
142-28-9	1,3-Dichloropropane	55	
127-18-4	Tetrachloroethene	50	

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: V1LLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: V1LL231A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V1F1903

Level: (low/med) LOW Date Received: _____

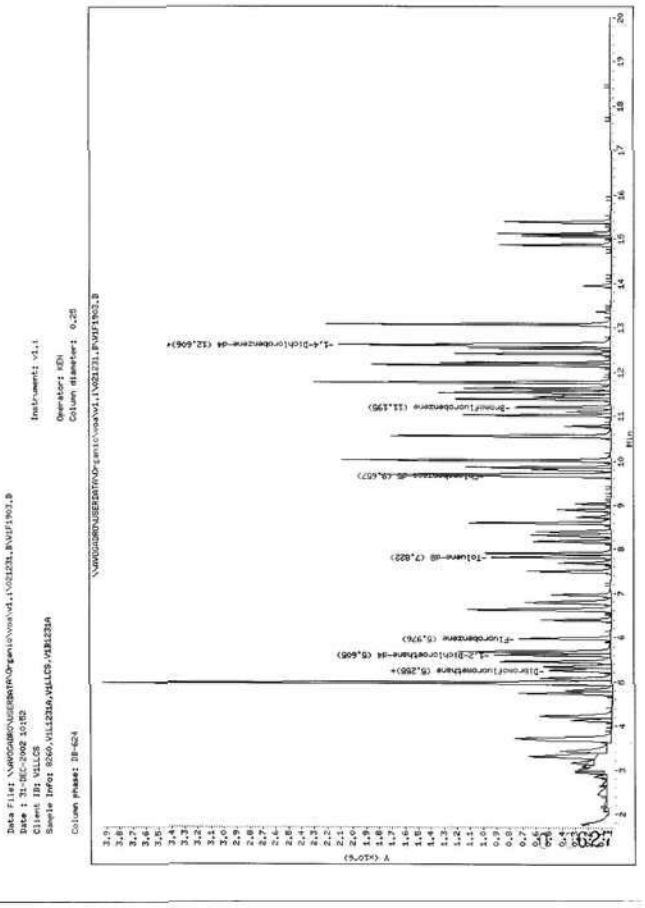
% Moisture: not dec. _____ Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
591-78-6	2-Hexanone	65	
124-48-1	Dibromochloromethane	52	
106-93-4	1,2-Dibromoethane	54	
108-90-7	Chlorobenzene	49	
630-20-6	1,1,1,2-Tetrachloroethane	50	
100-41-4	Ethylbenzene	50	
----------	m,p-Xylene	98	
95-47-6	o-Xylene	50	
1330-20-7	Xylene (Total)	150	
100-42-5	Styrene	52	
75-25-2	Bromoform	53	
98-82-8	Isopropylbenzene	50	
79-34-5	1,1,2,2-Tetrachloroethane	51	
108-86-1	Bromobenzene	49	
96-18-4	1,2,3-Trichloropropane	54	
103-65-1	n-Propylbenzene	49	
95-49-8	2-Chlorotoluene	47	
108-67-8	1,3,5-Trimethylbenzene	48	
106-43-4	4-Chlorotoluene	48	
98-06-6	tert-Butylbenzene	47	
95-63-6	1,2,4-Trimethylbenzene	48	
135-98-8	sec-Butylbenzene	47	
99-87-6	4-Isopropyltoluene	48	
541-73-1	1,3-Dichlorobenzene	48	
106-46-7	1,4-Dichlorobenzene	47	
104-51-8	n-Butylbenzene	49	
95-50-1	1,2-Dichlorobenzene	47	
96-12-8	1,2-Dibromo-3-chloropropane	53	
120-82-1	1,2,4-Trichlorobenzene	47	
87-68-3	Hexachlorobutadiene	48	
91-20-3	Naphthalene	47	
87-61-6	1,2,3-Trichlorobenzene	47	
544-10-5	1-Chlorohexane	49	
107-13-1	Acrylonitrile	290	

FORM I VOA OLM03.0



0 0627

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1903.D
Report Date: 10-Jan-2003 10:41

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1903.D
Lab Smp Id: V1L1231A Client Smp ID: V1LLCS
Inj Date : 31-DEC-2002 10:52
Operator : KEN Inst ID: v1.i
Smp Info : 8260,V1L1231A,V1LLCS,V1B1231A
Misc Info : ,3,,LCS
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\v18260H.m
Meth Date : 10-Jan-2003 10:29 mtl Quant Type: ISTD
Cal Date : 30-DEC-2002 12:23 Cal File: V1F1875.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/(Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
	1 Dichlorodifluoromethane	85	1.510	1.513	(0.253)	210612	47.7136	48
	2 Chloromethane	50	1.680	1.693	(0.281)	452419	53.2286	53
	3 Vinyl Chloride	62	1.786	1.789	(0.299)	335801	53.0225	53
	4 Bromomethane	94	2.104	2.107	(0.352)	94294	42.4577	42
	5 Chloroethane	64	2.232	2.234	(0.373)	127875	43.1437	43
	6 Trichlorofluoromethane	101	2.444	2.447	(0.409)	266027	51.2861	51
	8 1,1-Dichloroethene	96	2.953	2.945	(0.494)	289949	52.6449	53
	9 Acetone	43	3.006	3.009	(0.503)	129280	54.4214	54
	14 Methylene Chloride	84	3.430	3.422	(0.574)	365210	52.8865	53
	116 Acrylonitrile	53	3.674	3.677	(0.615)	619082	291.326	290
	16 trans-1,2-Dichloroethene	96	3.706	3.709	(0.620)	234987	49.8081	50
	17 Methyl tert-butyl ether	73	3.727	3.730	(0.624)	397680	56.8062	57
	18 1,1-Dichloroethane	63	4.130	4.133	(0.691)	459780	52.9346	52
	22 2-Butanone	43	4.767	4.759	(0.798)	205109	62.5739	63
	28 Tetrahydrofuran	72	5.053	5.056	(0.846)	43250	60.6465	61

0 0628

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1903.D
Report Date: 10-Jan-2003 10:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
	23 cis-1,2-Dichloroethene	96	4.735	4.738	(0.792)	244935	50.3694	50
	24 2,2-Dichloropropane	77	4.735	4.727	(0.792)	228441	49.8989	50
	27 Bromochloromethane	128	4.979	4.982	(0.833)	142375	52.2600	52
	26 Chloroform	83	5.074	5.077	(0.849)	439855	52.9691	53
S	30 Dibromofluoromethane	113	5.244	5.236	(0.878)	232206	55.4088	55
	31 1,1,1-Trichloroethane	97	5.266	5.268	(0.881)	287888	50.3170	50
	32 1,1-Dichloropropene	110	5.446	5.449	(0.911)	99114	51.3815	51
	33 Carbon Tetrachloride	117	5.456	5.449	(0.913)	262231	50.5264	50
S	35 1,2-Dichloroethane-d4	102	5.605	5.597	(0.938)	54151	54.8624	55
	37 Benzene	78	5.683	5.681	(0.949)	938300	52.2000	52
	36 1,2-Dichloroethane	62	5.679	5.682	(0.950)	376289	56.5269	56
*	38 Fluorobenzene	96	5.976	5.979	(1.000)	754451	50.0000	
	39 Trichloroethene	130	6.390	6.393	(1.069)	214829	51.1380	51
	40 1,2-Dichloropropane	63	6.634	6.626	(1.110)	290617	52.7414	53
	42 Dibromomethane	93	6.772	6.764	(1.133)	180512	54.6541	55
	43 Bromodichloromethane	83	6.963	6.955	(1.165)	352834	53.4566	53
	45 cis-1,3-Dichloropropene	75	7.493	7.485	(1.254)	417505	53.3084	53
	46 4-Methyl-2-pentanone	43	7.684	7.676	(1.286)	395763	63.6617	64
S	47 Toluene-d8	98	7.822	7.814	(0.610)	704863	50.9572	51
	48 Toluene	91	7.907	7.899	(1.323)	899655	51.2059	51
	49 trans-1,3-Dichloropropene	75	8.172	8.176	(1.367)	390758	54.8356	55
	51 1,1,2-Trichloroethane	97	8.395	8.397	(1.405)	219357	54.4692	54
	52 1,3-Dichloropropane	76	8.607	8.599	(0.891)	401581	54.6979	55
	53 Tetrachloroethene	164	8.596	8.588	(0.890)	183264	49.6570	50
	54 2-Hexanone	43	8.734	8.726	(0.904)	383763	65.2863	65
	55 Dibromochloromethane	129	8.893	8.896	(0.921)	266565	52.0852	52
	56 1,2-Dibromoethane	107	9.031	9.034	(0.935)	226143	54.3856	54
	115 1-Chlorohexane	91	9.689	9.681	(1.003)	330197	49.4683	49
*	57 Chlorobenzene-d5	117	9.657	9.649	(1.000)	935473	50.0000	
	58 Chlorobenzene	112	9.689	9.692	(1.003)	582462	49.0112	49
	59 1,1,1,2-Tetrachloroethane	131	9.806	9.798	(1.015)	207103	50.5294	50
	60 Ethylbenzene	106	9.848	9.851	(1.020)	288011	50.1414	50
	61 m,p-Xylene	106	10.007	10.010	(1.036)	702986	98.2995	98
	62 o-Xylene	106	10.537	10.530	(1.091)	374343	49.5573	50
	64 Styrene	104	10.548	10.551	(1.092)	644974	52.1033	52
	65 Bromoform	173	10.771	10.763	(1.115)	197457	53.3140	53
	66 Isopropylbenzene	105	11.015	11.018	(1.141)	875898	49.6773	50
S	68 Bromofluorobenzene	95	11.195	11.198	(1.159)	304992	53.3248	53
	69 1,1,2,2-Tetrachloroethane	83	11.386	11.389	(0.902)	366317	51.4092	51
	70 Bromobenzene	156	11.375	11.378	(0.902)	278259	48.8213	49
	71 1,2,3-Trichloropropane	75	11.429	11.431	(0.906)	374265	53.6011	54
	72 n-Propylbenzene	120	11.535	11.537	(0.914)	241798	48.8502	49
	73 2-Chlorotoluene	126	11.630	11.622	(0.922)	221760	47.4475	47
	74 1,3,5-Trimethylbenzene	105	11.768	11.760	(0.933)	785073	47.7258	48
	75 4-Chlorotoluene	126	11.768	11.760	(0.933)	244997	47.7257	48
	76 tert-Butylbenzene	119	12.180	12.153	(0.964)	758659	47.3502	47
	77 1,2,4-Trimethylbenzene	105	12.213	12.206	(0.968)	788628	48.0295	48

0 0629

Data File: \\AVOGADRO\USERDATA\Organic\voa\v1.i\021231.B\V1F1903.D
Report Date: 10-Jan-2003 10:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
	78 sec-Butylbenzene	105	12.426	12.418	(0.985)	994299	46.9713	47
	80 1,3-Dichlorobenzene	146	12.532	12.524	(0.993)	472758	48.5349	48
	79 4-Isopropyltoluene	119	12.595	12.598	(0.998)	805256	48.2481	48
*	81 1,4-Dichlorobenzene-d4	152	12.617	12.609	(1.000)	326029	50.0000	
	82 1,4-Dichlorobenzene	146	12.638	12.630	(1.002)	508250	47.4943	47
	83 n-Butylbenzene	91	13.073	13.075	(1.036)	875456	48.8693	49
	84 1,2-Dichlorobenzene	146	13.073	13.065	(1.036)	472229	48.9258	47
M	63 Xylene (Total)	106				1137329	147.857	150
	86 1,2-Dibromo-3-chloropropane	75	13.943	13.945	(1.105)	68846	52.9167	53
	87 1,2,4-Trichlorobenzene	180	14.865	14.858	(1.178)	295505	47.4223	47
	88 Hexachlorobutadiene	225	15.067	15.059	(1.194)	135797	47.6708	48
	89 Naphthalene	128	15.120	15.112	(1.198)	730227	47.2401	47
	90 1,2,3-Trichlorobenzene	180	15.385	15.377	(1.219)	278676	46.6496	47

KL

1/10/03

0 0630

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V6RLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: V6L1229A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4183

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/29/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	51	
74-87-3	Chloromethane	46	
75-01-4	Vinyl Chloride	44	
74-83-9	Bromomethane	56	
75-00-3	Chloroethane	50	
75-69-4	Trichlorofluoromethane	46	
75-35-4	1,1-Dichloroethene	48	
67-64-1	Acetone	32	
75-09-2	Methylene Chloride	49	
107-13-1	Acrylonitrile	210	
156-60-5	trans-1,2-Dichloroethene	49	
1634-04-4	Methyl tert-butyl ether	47	
75-34-3	1,1-Dichloroethane	45	
78-93-3	2-Butanone	39	
156-59-2	cis-1,2-Dichloroethene	50	
590-20-7	2,2-Dichloropropane	48	
74-97-5	Bromochloromethane	53	
67-66-3	Chloroform	48	
109-99-9	Tetrahydrofuran	46	
71-55-6	1,1,1-Trichloroethane	49	
563-58-6	1,1-Dichloropropene	53	
56-23-5	Carbon Tetrachloride	52	
107-06-2	1,2-Dichloroethane	44	
71-43-2	Benzene	48	
79-01-6	Trichloroethene	55	
78-87-5	1,2-Dichloropropane	46	
74-95-3	Dibromomethane	48	
75-27-4	Bromodichloromethane	49	
10061-01-5	cis-1,3-Dichloropropene	49	
108-10-1	4-Methyl-2-pentanone	40	
108-88-3	Toluene	52	
10061-02-6	trans-1,3-Dichloropropene	48	
79-00-5	1,1,2-Trichloroethane	49	
142-28-9	1,3-Dichloropropane	46	

FORM I VOA OLM03.0

0 0631

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

V6RLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: V6L1229A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C4183

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/29/02

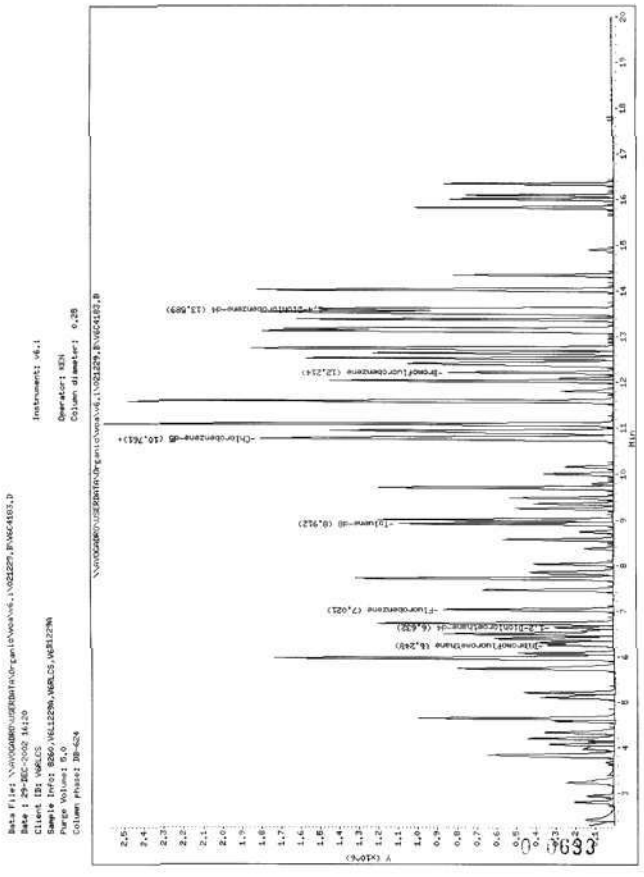
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
127-18-4	Tetrachloroethene	54	
591-78-6	2-Hexanone	40	
124-48-1	Dibromochloromethane	52	
106-93-4	1,2-Dibromoethane	49	
108-90-7	Chlorobenzene	50	
630-20-6	1,1,1,2-Tetrachloroethane	51	
100-41-4	Ethylbenzene	50	
----------	m,p-Xylene	100	
95-47-6	o-Xylene	50	
1330-20-7	Xylene (Total)	150	
100-42-5	Styrene	50	
75-25-2	Bromoform	57	
98-82-8	Isopropylbenzene	52	
79-34-5	1,1,2,2-Tetrachloroethane	43	
108-86-1	Bromobenzene	52	
96-18-4	1,2,3-Trichloropropane	44	
103-65-1	n-Propylbenzene	50	
95-49-8	2-Chlorotoluene	50	
108-67-8	1,3,5-Trimethylbenzene	49	
106-43-4	4-Chlorotoluene	49	
98-06-6	tert-Butylbenzene	50	
95-63-6	1,2,4-Trimethylbenzene	48	
135-98-8	sec-Butylbenzene	49	
99-87-6	4-Isopropyltoluene	49	
541-73-1	1,3-Dichlorobenzene	51	
106-46-7	1,4-Dichlorobenzene	51	
104-51-8	n-Butylbenzene	48	
95-50-1	1,2-Dichlorobenzene	50	
96-12-8	1,2-Dibromo-3-chloropropane	40	
120-82-1	1,2,4-Trichlorobenzene	53	
87-68-3	Hexachlorobutadiene	53	
91-20-3	Naphthalene	47	
87-61-6	1,2,3-Trichlorobenzene	51	
544-10-5	1-Chlorohexane	48	

FORM I VOA OLM03.0

0 0632



0 0633

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4183.D
Report Date: 13-Jan-2003 11:11

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4183.D
Lab Smp Id: V6L1229A Client Smp ID: V6RLCS
Inj Date : 29-DEC-2002 16:20
Operator : KEN Inst ID: v6.i
Smp Info : 8260,V6L1229A,V6RLCS,V6B1229A
Misc Info : ,3,,LCS
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\v68260.m
Meth Date : 13-Jan-2003 11:11 mtl Quant Type: ISTD
Cal Date : 24-DEC-2002 17:54 Cal File: V6C4111.D
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	2.040	2.035	(0.291)	249738	51.3521	51
2 Chloromethane	50	2.259	2.266	(0.322)	377141	46.2478	46
3 Vinyl Chloride	62	2.405	2.412	(0.343)	357602	44.3727	44
4 Bromomethane	94	2.796	2.788	(0.398)	226401	55.8114	56
5 Chloroethane	64	2.934	2.928	(0.418)	197242	49.9618	50
6 Trichlorofluoromethane	101	3.232	3.227	(0.460)	396533	46.5864	46
8 1,1-Dichloroethene	96	3.804	3.817	(0.542)	321679	47.6617	48
9 Acetone	43	3.840	3.841	(0.547)	42804	32.5559	32
14 Methylene Chloride	84	4.327	4.321	(0.616)	323285	48.8200	49
15 Acrylonitrile	53	4.576	4.577	(0.652)	544575	209.929	210
16 trans-1,2-Dichloroethene	96	4.637	4.631	(0.660)	314418	49.1000	49
17 Methyl tert-butyl ether	73	4.637	4.637	(0.660)	710183	46.9892	47
18 1,1-Dichloroethane	63	5.093	5.088	(0.725)	485603	45.2037	45
22 2-Butanone	43	5.726	5.726	(0.816)	74817	38.8378	39
29 Tetrahydrofuran	72	6.054	6.054	(0.862)	27410	46.1678	46
23 cis-1,2-Dichloroethene	96	5.726	5.726	(0.816)	350072	50.4136	50

0 0634

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4183.D
Report Date: 13-Jan-2003 11:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	24 1,2-Dichloropropane	77	5.732	5.732	(0.816)	254582	48.2100	48
	27 Bromochloromethane	128	5.993	5.987	(0.854)	171055	52.8663	53
	28 Chloroform	83	6.072	6.073	(0.865)	458660	47.8239	48
S	30 Dibromofluoromethane	113	6.248	6.249	(0.890)	285261	52.8783	53
	31 1,1,1-Trichloroethane	97	6.297	6.304	(0.897)	341319	49.1664	49
	32 1,1-Dichloropropene	110	6.486	6.480	(0.924)	158040	52.7988	53
	33 Carbon Tetrachloride	117	6.498	6.498	(0.925)	150229	51.7062	52
S	35 1,2-Dichloroethane-d4	102	6.632	6.632	(0.945)	72558	50.3823	50
	37 Benzene	78	6.717	6.717	(0.957)	1249774	48.5367	48
	36 1,2-Dichloroethane	62	6.717	6.717	(0.957)	328822	43.5126	44
*	38 Fluorobenzene	96	7.021	7.021	(1.000)	1206478	50.0000	
	39 Trichloroethene	130	7.453	7.453	(1.061)	356566	54.6025	55
	40 1,2-Dichloropropane	63	7.708	7.708	(1.098)	305691	46.1837	46
	42 Dibromomethane	93	7.848	7.848	(1.118)	174757	47.9549	48
	43 Bromodichloromethane	83	8.024	8.025	(1.143)	394495	49.2138	49
	45 cis-1,3-Dichloropropene	75	8.566	8.566	(1.220)	507958	49.2915	49
	46 4-Methyl-2-pentanone	43	8.742	8.736	(1.245)	157325	40.3047	40
S	47 Toluene-d8	98	8.913	8.913	(0.826)	1186806	50.7392	51
	48 Toluene	91	8.997	8.998	(1.282)	1391702	51.5454	52
	49 trans-1,3-Dichloropropene	75	9.247	9.247	(1.317)	422141	48.3464	48
	51 1,1,2-Trichloroethane	97	9.484	9.484	(1.351)	266271	49.2559	49
	52 1,3-Dichloropropane	76	9.703	9.709	(0.902)	452142	45.7621	46
	53 Tetrachloroethene	164	9.709	9.715	(0.902)	283962	54.2425	54
	54 2-Hexanone	43	9.794	9.794	(0.910)	105141	39.7275	40
	55 Dibromochloromethane	129	10.007	10.007	(0.930)	306481	52.0346	52
	56 1,2-Dibromoethane	107	10.165	10.171	(0.945)	268295	49.0612	49
	113 1-Chlorohexane	91	10.755	10.755	(0.999)	450835	48.0144	48
*	57 Chlorobenzene-d5	117	10.761	10.761	(1.000)	965635	50.0000	
	58 Chlorobenzene	112	10.803	10.804	(1.004)	971686	50.4552	50
	59 1,1,1,2-Tetrachloroethane	131	10.895	10.895	(1.012)	325409	51.3882	51
	60 Ethylbenzene	106	10.937	10.932	(1.016)	524413	50.3174	50
	61 m,p-Xylene	106	11.083	11.084	(1.030)	1266500	99.9846	100
	62 o-Xylene	106	11.576	11.576	(1.076)	629917	49.6876	50
	64 Styrene	104	11.588	11.594	(1.077)	1044072	50.3114	50
	65 Bromoform	173	11.813	11.819	(1.098)	190111	57.1620	57
	66 Isopropylbenzene	105	12.032	12.032	(1.118)	1454441	51.5927	52
S	68 Bromofluorobenzene	95	12.214	12.215	(1.135)	413749	48.5676	48
	69 1,1,2,2-Tetrachloroethane	83	12.366	12.373	(0.910)	310428	43.1830	43
	70 Bromobenzene	156	12.403	12.403	(0.913)	404539	52.1252	52
	71 1,2,3-Trichloropropane	75	12.427	12.428	(0.915)	370480	43.6315	44
	72 n-Propylbenzene	120	12.524	12.531	(0.922)	454468	49.5687	50
	73 2-Chlorotoluene	126	12.634	12.634	(0.930)	401592	49.7597	50
	74 1,3,5-Trimethylbenzene	105	12.737	12.732	(0.937)	1244967	48.9387	49
	75 4-Chlorotoluene	126	12.762	12.762	(0.939)	411257	48.8765	49
	76 tert-Butylbenzene	119	13.120	13.127	(0.966)	1429691	50.2931	50
	77 1,2,4-Trimethylbenzene	105	13.175	13.176	(0.970)	1254676	48.0504	48
	78 sec-Butylbenzene	105	13.376	13.382	(0.984)	1609072	49.1717	49

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021229.B\V6C4183.D
Report Date: 13-Jan-2003 11:11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	80 1,3-Dichlorobenzene	146	13.516	13.516	(0.995)	758381	50.6131	51
	79 4-Isopropyltoluene	119	13.546	13.547	(0.997)	1314391	49.1067	49
*	81 1,4-Dichlorobenzene-d4	152	13.589	13.589	(1.000)	487008	50.0000	
	82 1,4-Dichlorobenzene	146	13.613	13.613	(1.002)	773766	50.9885	51
	83 n-Butylbenzene	91	14.014	14.015	(1.031)	1203823	47.6036	48
	84 1,2-Dichlorobenzene	146	14.045	14.045	(1.034)	710283	50.1242	50
M	63 Xylene (Total)	106				1896417	149.672	150
	86 1,2-Dibromo-3-chloropropane	75	14.902	14.903	(1.097)	42315	40.5804	40
	87 1,2,4-Trichlorobenzene	180	15.827	15.827	(1.165)	474441	53.1756	53
	88 Hexachlorobutadiene	225	16.009	16.010	(1.178)	215828	53.4598	53
	89 Naphthalene	128	16.084	16.089	(1.184)	867851	46.7860	47
	90 1,2,3-Trichlorobenzene	180	16.350	16.350	(1.203)	394294	50.6381	51

SB 1/13/03

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: V6ULCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: V6L1231A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V6C4244

Level: (low/med) MED Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2600	
74-87-3	Chloromethane	2800	
75-01-4	Vinyl Chloride	2700	
74-83-9	Bromomethane	3300	
75-00-3	Chloroethane	3200	
75-69-4	Trichlorofluoromethane	2400	
75-35-4	1,1-Dichloroethene	2500	
67-64-1	Acetone	1900	
75-09-2	Methylene Chloride	2500	B
107-13-1	Acrylonitrile	11000	
156-60-5	trans-1,2-Dichloroethene	2600	
1634-04-4	Methyl tert-butyl ether	2400	
75-34-3	1,1-Dichloroethane	2500	
78-93-3	2-Butanone	2000	
156-59-2	cis-1,2-Dichloroethene	2600	
590-20-7	2,2-Dichloropropane	2600	
74-97-5	Bromochloromethane	2500	
67-66-3	Chloroform	2600	
109-99-9	Tetrahydrofuran	2400	
71-55-6	1,1,1-Trichloroethane	2600	
563-58-6	1,1-Dichloropropene	2600	
56-23-5	Carbon Tetrachloride	2600	
107-06-2	1,2-Dichloroethane	2400	
71-43-2	Benzene	2600	
79-01-6	Trichloroethene	2600	
78-87-5	1,2-Dichloropropane	2500	
74-95-3	Dibromomethane	2400	
75-27-4	Bromodichloromethane	2600	
10061-01-5	cis-1,3-Dichloropropene	2500	
108-10-1	4-Methyl-2-pentanone	2100	
108-88-3	Toluene	2700	
10061-02-6	trans-1,3-Dichloropropene	2500	
79-00-5	1,1,2-Trichloroethane	2400	
142-28-9	1,3-Dichloropropane	2300	

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: V6ULCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: V6L1231A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: V6C4244

Level: (low/med) MED Date Received: _____

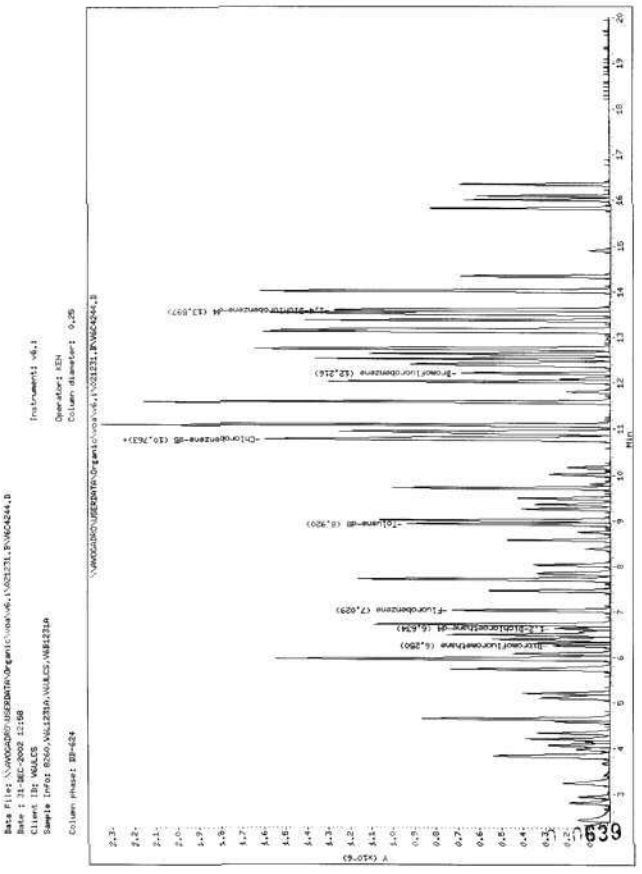
% Moisture: not dec. _____ Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: 5(mL) Soil Aliquot Volume: 100.0(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
127-18-4	Tetrachloroethene	2500	
591-78-6	2-Hexanone	2100	
124-48-1	Dibromochloromethane	2500	
106-93-4	1,2-Dibromoethane	2400	
108-90-7	Chlorobenzene	2600	
630-20-6	1,1,1,2-Tetrachloroethane	2600	
100-41-4	Ethylbenzene	2600	
----------	m,p-Xylene	5200	
95-47-6	o-Xylene	2600	
1330-20-7	Xylene (Total)	7800	
100-42-5	Styrene	2600	
75-25-2	Bromoform	2500	
98-82-8	Isopropylbenzene	2700	
79-34-5	1,1,2,2-Tetrachloroethane	2200	
108-86-1	Bromobenzene	2600	
96-18-4	1,2,3-Trichloropropane	2300	
103-65-1	n-Propylbenzene	2500	
95-49-8	2-Chlorotoluene	2500	
108-67-8	1,3,5-Trimethylbenzene	2600	
106-43-4	4-Chlorotoluene	2500	
98-06-6	tert-Butylbenzene	2600	
95-63-6	1,2,4-Trimethylbenzene	2600	
135-98-8	sec-Butylbenzene	2600	
99-87-6	4-Isopropyltoluene	2600	
541-73-1	1,3-Dichlorobenzene	2600	
106-46-7	1,4-Dichlorobenzene	2600	
104-51-8	n-Butylbenzene	2600	
95-50-1	1,2-Dichlorobenzene	2500	
96-12-8	1,2-Dibromo-3-chloropropane	2100	
120-82-1	1,2,4-Trichlorobenzene	2500	
87-68-3	Hexachlorobutadiene	2500	
91-20-3	Naphthalene	2300	
87-61-6	1,2,3-Trichlorobenzene	2400	
544-10-5	1-Chlorohexane	2500	

FORM I VOA OLM03.0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\V6C4244.D
Report Date: 13-Jan-2003 11:01

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\V6C4244.D
Lab Smp Id: V6L1231A Client Smp ID: V6ULCS
Inj Date : 31-DEC-2002 12:58
Operator : KEN Inst ID: v6.i
Smp Info : 8260,V6L1231A,V6ULCS,V6B1231A
Misc Info : ,3,,LCS
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\v68260.m
Meth Date : 13-Jan-2003 11:01 mtl Quant Type: ISTD
Cal Date : 24-DEC-2002 17:54 Cal File: V6C4111.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HRP.sub
Target Version: 4.03
Processing Host: TARGET3

Concentration Formula: Amt * DF * Uf*(Vt*5000)/(Va*Ws*((100-M)/100)))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Ws	5.000	Weight of sample (g)
M	0.000	% Moisture (not decanted)
Vt	5.000	Methanol extract volume (mL)
Va	100.000	Aliquot of methanol (uL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
	1 Dichlorodifluoromethane	85	2.030	2.034	(0.289)	207060	52.0737	2600
	2 Chloromethane	50	2.261	2.265	(0.322)	378304	56.7303	2800
	3 Vinyl Chloride	62	2.419	2.421	(0.344)	351532	53.3493	2700
	4 Bromomethane	94	2.796	2.764	(0.398)	219977	66.3219	3300(R)
	5 Chloroethane	64	2.936	2.940	(0.418)	204772	63.4391	3200(R)
	6 Trichlorofluoromethane	101	3.228	3.232	(0.459)	342146	49.1631	2400
	8 1,1-Dichloroethene	96	3.806	3.798	(0.541)	278390	50.4486	2500
	9 Acetone	43	3.842	3.840	(0.547)	40883	37.6638	1900
	14 Methylene Chloride	84	4.323	4.327	(0.615)	270360	49.9347	2500
	15 Acrylonitrile	53	4.578	4.576	(0.651)	289725	216.610	11000
	16 trans-1,2-Dichloroethene	96	4.645	4.637	(0.661)	267775	51.1440	2600
	17 Methyl tert-butyl ether	73	4.639	4.637	(0.660)	595870	48.2200	2400
	18 1,1-Dichloroethane	83	5.095	5.093	(0.725)	440066	50.1024	2500

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\V6C4244.D
Report Date: 13-Jan-2003 11:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
	22 2-Butanone	43	5.734	5.726	(0.816)	84460	40.9254	2000
	29 Tetrahydrofuran	72	6.062	6.066	(0.862)	23788	49.0045	2400
	23 cis-1,2-Dichloroethene	96	5.734	5.732	(0.816)	293743	51.7376	2600
	24 2,2-Dichloropropane	77	5.734	5.738	(0.816)	225255	52.1713	2600
	27 Bromochloromethane	128	5.995	5.993	(0.853)	134536	50.8545	2500
	28 Chloroform	83	6.074	6.072	(0.864)	439491	51.5512	2600
S	30 Dibromofluoromethane	113	6.250	6.248	(0.889)	228431	51.7891	2600
	31 1,1,1-Trichloroethane	97	6.306	6.303	(0.897)	313292	52.1405	2600
	32 1,1-Dichloropropene	110	6.488	6.492	(0.923)	128440	52.4814	2600
	33 Carbon Tetrachloride	117	6.500	6.498	(0.925)	190616	52.4757	2600
S	35 1,2-Dichloroethane-d4	102	6.640	6.638	(0.945)	57642	48.3530	2400
	37 Benzene	78	6.719	6.717	(0.956)	1095917	52.0445	2600
	36 1,2-Dichloroethane	62	6.719	6.723	(0.956)	302025	48.8815	2400
*	38 Fluorobenzene	96	7.029	7.027	(1.000)	985424	50.0000	
	39 Trichloroethene	130	7.461	7.459	(1.061)	281537	52.7298	2600
	40 1,2-Dichloropropane	63	7.710	7.708	(1.097)	274211	50.6690	2500
	42 Dibromomethane	93	7.850	7.848	(1.117)	143904	48.3371	2400
	43 Bromodichloromethane	83	8.036	8.030	(1.142)	336012	51.2682	2600
	45 cis-1,3-Dichloropropene	75	8.568	8.572	(1.219)	426559	50.6257	2500
	46 4-Methyl-2-pentanone	43	8.744	8.742	(1.244)	136412	42.6339	2100
S	47 Toluene-d8	98	8.920	8.918	(0.828)	997924	52.1428	2600
	48 Toluene	91	8.959	9.003	(1.280)	1212432	54.9224	2700
	49 trans-1,3-Dichloropropene	75	9.249	9.253	(1.316)	354662	49.6814	2500
	51 1,1,2-Trichloroethane	97	9.492	9.490	(1.350)	213822	48.3766	2400
	52 1,3-Dichloropropane	76	9.711	9.709	(0.902)	374821	48.3645	2300
	53 Tetrachloroethene	164	9.717	9.721	(0.902)	237823	50.8528	2500
	54 2-Hexanone	43	9.796	9.800	(0.910)	89564	41.3603	2100
	55 Dibromochloromethane	129	10.015	10.013	(0.930)	237350	49.2503	2500
	56 1,2-Dibromoethane	107	10.167	10.171	(0.944)	210720	47.0744	2400
	115 1-Chlorohexane	91	10.763	10.761	(0.999)	384370	50.0104	2500
*	57 Chlorobenzene-d5	117	10.769	10.767	(1.000)	790100	50.0000	
	58 Chlorobenzene	112	10.805	10.803	(1.003)	817292	51.8667	2600
	59 1,1,1,2-Tetrachloroethane	131	10.897	10.901	(1.012)	268629	51.8463	2600
	60 Ethylbenzene	106	10.939	10.937	(1.016)	435729	51.0966	2600
	61 m,p-Xylene	106	11.085	11.083	(1.029)	1076520	103.868	5200
	62 o-Xylene	106	11.586	11.582	(1.076)	546049	52.6414	2600
	64 Styrene	104	11.596	11.594	(1.077)	891994	52.4282	2600
	65 Bromoform	173	11.821	11.819	(1.098)	138473	50.8857	2500
	66 Isopropylbenzene	105	12.034	12.032	(1.117)	1236226	53.5946	2700
S	68 Bromofluorobenzene	95	12.216	12.220	(1.134)	353121	50.6598	2500
	69 1,1,2,2-Tetrachloroethane	83	12.368	12.372	(0.910)	257041	44.1109	2200
	70 Bromobenzene	156	12.405	12.409	(0.913)	324298	51.5494	2600
	71 1,2,3-Trichloropropane	75	12.429	12.433	(0.915)	315890	45.8948	2300
	72 n-Propylbenzene	120	12.532	12.530	(0.922)	375801	50.5658	2500
	73 2-Chlorotoluene	126	12.636	12.640	(0.930)	331136	50.6164	2500
	74 1,3,5-Trimethylbenzene	105	12.739	12.737	(0.937)	1081553	52.4486	2600
	75 4-Chlorotoluene	126	12.764	12.768	(0.939)	347414	50.9361	2500

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\021231.B\V6C4244.D
Report Date: 13-Jan-2003 11:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
	76 tert-Butylbenzene	119	13.128	13.126	(0.966)	1306968	52.3788	2600
	77 1,2,4-Trimethylbenzene	105	13.183	13.181	(0.970)	1119763	52.9034	2600
	78 sec-Butylbenzene	105	13.384	13.382	(0.985)	1369074	52.3670	2600
	80 1,3-Dichlorobenzene	146	13.518	13.516	(0.995)	629212	51.8041	2600
	79 4-Isopropyltoluene	119	13.548	13.548	(0.997)	1144410	52.5860	2600
*	81 1,4-Dichlorobenzene-d4	152	13.591	13.589	(1.000)	394770	50.0000	
	82 1,4-Dichlorobenzene	146	13.615	13.619	(1.002)	636648	51.7552	2600
	83 n-Butylbenzene	91	14.016	14.014	(1.031)	1065948	52.1954	2600
	84 1,2-Dichlorobenzene	146	14.047	14.045	(1.034)	585593	50.9806	2500
M	63 Xylene (Total)	106				1622569	156.509	7800
	86 1,2-Dibromo-3-chloropropane	75	14.904	14.902	(1.097)	35947	42.5291	2100
	87 1,2,4-Trichlorobenzene	180	15.829	15.827	(1.165)	363578	50.1598	2500
	88 Hexachlorobutadiene	225	16.011	16.009	(1.178)	161906	49.4737	2500
	89 Naphthalene	128	16.090	16.094	(1.184)	660276	45.2407	2300
	90 1,2,3-Trichlorobenzene	180	16.362	16.356	(1.203)	309858	47.6583	2400

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

SB 1/13/03

Percent Moisture and Percent Solids Report

Mitkem Sample ID	Client Sample ID	Analyzed	Percent Moisture	Percent Solids	Validated
A1905-04A	AOC3SSTB4902	12/31/2002	9	91	Yes
A1905-05A	AOC3SSTB5312	12/31/2002	7	93	Yes
A1905-06A	AOC3SSTB5402	12/31/2002	9	91	Yes
A1905-11A	AOC3SSD5A45	12/31/2002	9	91	Yes
A1905-12A	AOC3SSD5B45	12/31/2002	10	90	Yes
A1905-13A	AOC3SSTB4945	12/31/2002	11	89	Yes
A1905-15A	AOC5SSTB6267	12/31/2002	43	57	Yes
A1905-17A	AOC7SSTB6578	12/31/2002	43	57	Yes
A1905-19A	AOC5ASSTB6956	12/31/2002	11	89	Yes
A1905-20A	AOC5ASSD7A56	12/31/2002	8	92	Yes
A1905-21A	AOC5ASSD7B56	12/31/2002	8	92	Yes
A1905-22A	AOC6SSTB7167	12/31/2002	37	63	Yes
A1905-23A	AOC5ASSTB7002	12/31/2002	7	93	Yes
A1905-24A	AOC5ASSTB6978	12/31/2002	49	51	Yes
A1905-25A	AOC5ASSTB68015	12/31/2002	7	93	Yes
A1905-27A	AOC2TB5512	12/31/2002	8	92	Yes
A1905-28A	AOC2TB24	12/31/2002	9	91	Yes
A1905-29A	AOC2TB5802	12/31/2002	5	95	Yes
A1905-30A	AOC2TB57675	12/31/2002	11	89	Yes

0 0643

Thursday, January 09, 2003 — Page 1 of 1

Date: 12/30/02 — Instrument V 1 Injection Log — 4969 — Mitkem Corporation Volatiles Laboratory

METHOD: V1 8260 M — CAL ID: VW021201C-IS — ANALYST: YD
INITIAL CAL: 12/30/02 — IS/SS ID: VW021201D-SS, VW021216A-Gas, VW021227B-STD, VW021227C-APP25 — ARCHIVE:
COMMENTS:

AS #	FILE		MITKEM ID		CLIENT ID	SAMPLE SIZE	DIL	COMMENTS	IS	SS	pH
DT	VIF18	70A	VIT1233	A	BFBIK	2µl	—	DIC (10:05)			
1		71	VIS1230	A	VSTD0.5 01K	5ml					
2		72		B	VSTD005 11K						
3		73		C	VSTD20011K			I cal for 8260 50:1			
4		74		D	VSTD1001K						
5		75	AIS1230	E	VSTD02011K						
6		76	VIB1233	A	VBLIK11K			DIC	✓	✓	
7		77	VIL1230	A	VILCCS			DIC	✓	✓	
8		78	VIL1230	B	VILCCSD	5ml		DIC	✓	✓	
9		79	A1905-	01A	AOC3CTCP6	11.7g		RR IX	all	✓	
10		80		04A	AOC3SSTB4902	13.1g		DIC	✓	✓	
11		81		05A	AOC3SSTB5312	15.1g		DIC	✓	✓	
12		82		06A	AOC3SSTB5402	14.1g		DIC	✓	✓	
13		83		02A	AOC3CTCP7	13.8g		RR IX	all	1↓	
14		84		03A	AOC3CTCP8	7.6g		Nature 270 RRML	2,3↓	1↓	
15		85		15A	AOC5SSTB6207	9.3g		RR IX	3↓	✓	
16		86		17A	AOC7SSTB6578	4.0g		DIC	3↓	✓	
17		87		22A	AOC6SSTB7167	7.0g		DIC	2,3↓	✓	
18		88		23A	AOC5ASSTB7002	18.6g		DIC	✓	✓	
19		89		24A	AOC5ASSTB6978	4.6g		DIC	3↓	✓	
20		90		25A	AOC5ASSTB68015	17.2g		RR IX	all	✓	
21		91		01ARE	AOC3CTCP8RE	18.7 6.5g		DIC 12/31/02	all	✓	
22		92	A1905-	27A	AOC2TB5512	11.8g		DIC 21:50	3↓	✓	
23	VIF18	93	VIS1230	F	VSTD05 01L	5ml	—	DTT			

YD 12/30/02

Logbook ID 90.0204-2/02 — Reviewed By: YD 12/31/02 — Logbook page: 0 20 0644

Date: 12/31/02 — Instrument V 1 Injection Log — 4981 — Mitkem Corporation Volatiles Laboratory

METHOD: V1 8260 1-1 — CAL ID: VW021201C-IS — ANALYST: YD
INITIAL CAL: 12/30/02 — IS/SS ID: VW021201D-SS, VW021216A-Gas, VW021227B-STD, VW021227C-APP25 — ARCHIVE:
COMMENTS:

AS #	FILE		MITKEM ID		CLIENT ID	SAMPLE SIZE	DIL	COMMENTS	IS	SS	pH
DT	VIF19	00	VIT1231	A	BFB1L	2µl	—	DIC (09:04)			
1		01	VIS1231	A	VSTD05-01L	5ml		DIC			
2		02	VIB1231	A	VBLICIL			DIC	✓	✓	
3		03	VIL1231	A	VILCCS			DIC	✓	✓	
4		04	VIL1231	B	VILCCSD	5ml		DIC	✓	✓	
5		05	A1905-	02ARE	AOC3CTCP7RE	17.0g		DIC	all	✓	
6		06	A1905-	25ARE	AOC5ASSTB6978RE	7.0g		DIC	all	✓	
7		07	VIS1231	B	VSTD05 01M	5ml		DIC	✓		
8		08	A1905-	03A	AOC3CTCP8	13.1g		Not use	all	1↓	
9		09	VIS1231	C	VSTD05 01N	5ml		DIC	✓		
10		10	MDL		MDL	5ml		DIC	✓	N/S	
11		11	A1905-	15A	AOC5ASSTB6267	7.8g		DIC	✓	✓	
12		12	MDL		MDL	5ml		1000	✓	N/A	
13		13	MDL		MDL				✓		
14		14	MDL		MDL				✓		
15		15	MDL		MDL				✓		
16		16	MDL		MDL				✓		
17		17	MDL		MDL				✓		
18		18	MDL		MDL				✓		
19		19	MDL		MDL				✓		
20	VIF19	20	VIS1231	D	VSTD05 01	5ml	—	20:35			

YD 01/02/03

Logbook ID 90.0204-2/02 — Reviewed By: YD 01/02/03 — Logbook page: 0 22 0645

Date: 12/24/02 — Instrument V 6 Injection Log — Mitkem Corporation Volatiles Laboratory

METHOD: V6 8260 — CAL ID: VW021221C-IS — ANALYST: YD
INITIAL CAL: 12/24/02 — IS/SS ID: VW021201D-SS, VW021201E-STD, VW021201H-APP25, VW021216A-Gas3 — ARCHIVE:
COMMENTS:

AS #	FILE		MITKEM ID		CLIENT ID	SAMPLE SIZE	DIL	COMMENTS	IS	SS	pH
DT	V6C41	00	V6T1224	A	BFB 6N	2µl	-	DIC (12:52)			
1		01	V6S1224	A	VSTD0.5 06N	5ml	-	Not use			
2		02		B	VSTD005 6N		-				
3		03		C	VSTD0016N		-				
4		04		C	VSTD2016N		-				
5		05		D	VSTD0.516N		-	Not use			
6		06		D	VSTD2006N		-				
7		07		E	VSTD1006N		-	I cal for 8260 Aqueous and Mid Soil			
8		08		A	VSTD05 06N		-				
9		09		F	VSTD0206N		-				
10		10		B	VSTD 005 6N		-				
11		11	V6S1224	C	VSTD 0016N		-				
12		12	V6B1224	A	VBLK6N		-	Not use	✓	✓	
13		13	V6B1224	A	VBLIC6N		-	DIC	✓	✓	
14		14	V6L1224	A	V6NCCS		-	DIC	✓	✓	
15		15	V6L1224	B	V6NCCSD		-	DIC 1 out	✓	✓	
16		16	A1909-	21A	MW-1		-	DIC	✓	✓	
17		17		02A	MW-2		-	DIC	✓	✓	
18		18		05A	TRIPBLK #6		-	DIC	✓	✓	
19		19		04A	FIELBLANK#6		-	RR IX	✓	3↑	
20		20	A1909-	02A	MW-5	✓	-	DIC	✓	✓	
21	V6C41	21	V6SD224	G	VSTD0.5 060	5ml	-	(12:13)			

YD 12/26/02

Logbook ID 90.0200-2/02 — Reviewed By: YD 12/29/02 — Logbook page: 0005

Date: 12/29/02 Instrument V 6 Injection Log 4956 Mitkem Corporation Volatiles Laboratory

METHOD: V6 8260 CAL ID: VW02120K-25 ANALYST: YD
INITIAL CAL: 12/24/02 IS/SS ID: VW02120 1P-SS ARCHIVE:
VW021201T-STD
VW021201H-Spppy
COMMENTS: VW021216A-QAS

AS #	FILE		MITKEM ID		CLIENT ID	SAMPLE SIZE	DIL	COMMENTS	IS	SS	pH
02	V6C41	80	V6T1229	A	BFBGR	2mL	-	OK 14:59			
1		81	V6S1229	A	VSTD050GR	5mL	-	OK			
2		82	V6B1229	A	VBLKGR		-	OK	✓	✓	
3		83	V6L1229	A	VGRLCS		-	OK	✓	✓	
4		84	V6L1229	B	VGRLCSD		-	OK	✓	✓	
5		85	A1870-	01A	WELL D-1		-	OK	✓	✓	
6		86		02A	WELL D-1-A		-	OK	✓	✓	
7		87		03A	WELL D-8		-	OK	✓	✓	
8		88		04A	WELL D-4		-	OK	✓	✓	
9		89		05A	WELL D-1		-	OK	✓	✓	
10		90		06A	WELL D-7-A		-	OK	✓	✓	
11		91		07A	WELL D-2		-	OK	✓	✓	
12		92		08A	WELL D-6-S		-	OK	✓	✓	
13		93	A1870-	09A	WELL D-6		-	OK	✓	✓	
14		94	A1905-	09A	AOC37L		-	OK	✓	✓	
15		95		14A	AOC567		-	OK	✓	✓	
16		96		14A	AOC5W-TB6GW		-	OK	✓	✓	
17		97	A1905-	18A	AOC7 WTB6GW		-	OK	✓	✓	
18		98	A1893-	01A	MW-3		-	OK	✓	✓	
19	V6C41	99		02A	MW-4		-	FB1673, RR6X	✓	✓	
20	V6C42	00		03A	MW-5		-	RR1X	✓	✓	
21		01	A1893-	04A	MW-6		-	OK	✓	✓	
22		02	A1910-	01A	HBI-3		-	OK	✓	✓	
23		03	A1910-	02A	HBI-4		-	OK	✓	✓	
24	V6C42	04	V6S1229	A	VSTD050GR	5mL	-	01:57			

YD 12/30/02

0 0647

Logbook ID 90.0200-2/02 Reviewed By: YD 12/30/02 Logbook page: 0018

Date: 12/31/02 Instrument V 6 Injection Log 4977 Mitkem Corporation Volatiles Laboratory

METHOD: V6 8260 CAL ID: VW021201C-25 ANALYST: YD
INITIAL CAL: 12/24/02 IS/SS ID: VW021201D-SS ARCHIVE:
VW021216A-QAS
COMMENTS: VW021227B-STD
VW021227C-Spppy

AS #	FILE		MITKEM ID		CLIENT ID	SAMPLE SIZE	DIL	COMMENTS	IS	SS	pH
02	V6C42	40	V6T1231	A	BFBGU	2µL	-	OK 09:59			
1		41	V6S1231	A	VSTD050GU	5mL	-	OK			
2		42	V6B1231	A	VBLKGU	100µL/5mL	-	OK	✓	✓	
3		43	V6B1231	B	VBLKGV	5mL	-	OK	✓	✓	
4		44	V6L1231	A	VGULCS	100µL/5mL	-	OK 2nd inj	✓	✓	
5		45	V6L1231	B	VGVLCS	5mL	-	OK 2nd inj	✓	✓	
6		46	A1905-	03A RE	AOC3CTCPDRE	100µL/5mL	-	OK	✓	✓	
7		47	A1914-	01A	D060049	5mL	-	PCE 247, RR2X	✓	✓	
8		48		02A	D060050		-	PCE 24, RR1X	✓	✓	
9		49		03A	D060051		-	OK	✓	✓	
10		50	A1914-	04A	D060052		-	OK	✓	✓	
11		51	A1915-	01A	D060013		-	OK	✓	✓	
12		52		02A	D060014		-	OK	✓	✓	
13		53		03A	D060015		-	OK	✓	✓	
14		54		04A	D060025		-	OK	✓	✓	
15		55		05A	D060026		-	OK	✓	✓	
16		56		06A	D060027		-	OK	✓	✓	
17		57		07A	D060028		-	OK	✓	✓	
18		58		08A	D060029		-	OK	✓	✓	
19		59		09A	D060030		-	OK	✓	✓	
20		60		10A	D060031		-	OK	✓	✓	
21		61		11A	D060032		-	OK	✓	✓	
22		62		12A	D060033		-	OK 21:51	✓	✓	
23		63		13A	D060034		-	OK RR1X 22:20	✓	✓	
24		64		14A	D060035		-	PCE 568, RR4X	✓	✓	
25		65		15A	D060036		-	PCE 551, RR4X	✓	✓	
26		66		16A	D060040		-	PCE 576, RR4Y	✓	✓	
27		67	A1915-	17A	D060041		-	RR1X	✓	✓	
28		68	V6S123118		VSTD050GU				✓	✓	
29	V6C42	69	A1916-	03A	" 5	5mL	-	OK	✓	✓	6.29

0 0648

Logbook ID 90.0200-2/02 Reviewed By: YD 1/2/03 Logbook page: 0010

MITKEM CORPORATION: Volatile Organics Low/Medium Level Soil Extraction Log

Date	Lab ID	Analysis	Wt. Soil Extracted (g)	Extraction Volume (mL)	Extraction Solution Methanol/NaHSO4	Methanol Lot. #/ NaHSO4 ID	Comments	Analyst
12/30/02	A1914-01A	8260	11.7	5mL	NaHSO4	pre-preserved	43.84 - 33.17	YD
	-02A		13.0				44.24 - 32.208	
	-03A		7.6				39.68 - 32.088	
	-04A		13.1				45.19 - 32.057	
	-05A		15.1				47.24 - 32.181	
	-06A		15.1				47.21 - 32.141	
	-15A		9.3				41.35 - 32.022	
	-17A		4.0				36.24 - 32.139	
	-22A		2.0				39.20 - 32.160	
	-23A		18.1				40.62 - 32.156	
	-39A		4.6				38.74 - 32.150	
	-25A		12.2				49.21 - 32.020	
	-27A		11.8				43.91 - 32.116	
12/30/02	A1914-01A	8260	18.7	5mL	NaHSO4	pre-preserved	50.10 - 31.381	YD
12/31/02	-22A		12.0				44.12 - 32.160	
12/31/02	-15A		7.8				39.74 - 31.892	
12/31/02	A1905-22A	8260	7.0	5mL	NaHSO4	pre-preserved	39.22 - 32.203	YD
12/31/02	A1915-05A	8260	13.1	5mL	NaHSO4	pre-preserved	46.16 - 32.097	YD
12/30/02	A1905-03A	8260	15.5	5mL+5mL	MeOH	Pre-preserved	46.45 - 30.93	YD

5mL MeOH added to the vial, because there weight employs mass.

0 0649

Logbook ID: 90.0189-1/02 Reviewed By: SB 1/9/03 Logbook page: 0029

MITKEM CORPORATION: VOLATILE ORGANICS TRACKING LOGBOOK

Project	Client	#'s / Analyst/ Date in	Comments	#'s / Analyst/ Date out	#'s / Analyst/ Date in	#'s / Analyst/ Date out	#'s / Analyst/ Date in	#'s / Analyst/ Date out
A1899	G2A	01-02 RG	29 AN 12/30/02					
A1900	FW	01-03 4DAY RG	RG AN 12/30/02 (N) 12/31/02					
A1901	T+T	01-15	12-19 - 12-22-02 (N) 12/31/02	12:00 YD	12/31/02 12:30 YD	12/31/02 12:30 YD	12/31/02 12:30 YD	
A1904	D&B	01-06	A-10 12-27-02 YD					
A1905	HRP	1-6 & 1-8	A-10 12-27-02 YD					
A1908	FECH	1-3	A-10 12-27-02 YD					
A1909	ENVITO Standards	1-5	A-11 12-27-02 YD					
A1910	NBK Tech	1-2	A-11 12-27-02 YD					
A1912	R+RC	01-03	R4 12/30/02 YN					
A1913	LMS	-01	12 12/30/02 YN					
A1914	Ferguson	01-04 4DAY RG	R13 12/30/02 AN					
A1915	Kinsco	01-17 2DAY mi	R13 12/30/02 AN					
A1916	Pioneer	03	R10 12/30/02 AN					
A1919	EMSK	01-02	R10 12/31/02 AN					
B0002	TRACE	01-04	R10 1/8/03 (N) 1-9-03					
B0003	SHAW	01-02	R10 (N)					
B0005	LMS	01	R10 1/6/03 (N) Kesh					
A1911	05-18	Tria	R13 (YD) 1/7/03					
B0031	LMS	01-15	R4 1/8/03 (SB)					
B0029	LMS	01	R4 1/8/03 YD					
B0022	Tag Free	01-06	R4 1/8/03 YD					

0 0650

Logbook ID 90.0190-1/02 Reviewed By: KL 1/10/03 Logbook Page: 0000

MITKEM CORPORATION

* Semivolatile Organics *

0 0651

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLK2E	78	83	68	22	36	83	64	79	0
02	S2SLCS	76	83	76	25	38	79	66	76	0
03	SBLK2F	88	92	81	26	41	92	76	90	0
04	S2FLCS	76	85	79	22	34	83	66	78	0
05	AOC3883	76	83	83	21	34	75	65	78	0
06	AOC3884	80	86	77	27	41	81	71	80	0
07	AOC587	72	79	73	21	33	75	62	72	0
08	AOC5MTB62M	80	86	88	45	56	88	74	77	0
09	AOC7MTB65GM	65	82	82	44	48	85	64	69	0
10	AOC2B6	82	90	89	35	49	89	73	84	0
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(48-106)	
S2 (FBP)	= 2-Fluorobiphenyl	(38-120)	
S3 (TPH)	= Terphenyl-d14	(0-147)	
S4 (PHL)	= Phenol-d5	(0-120)	
S5 (2FP)	= 2-Fluorophenol	(1-103)	
S6 (TBP)	= 2,4,6-Tribromophenol	(37-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(28-107)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(37-106)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

0 0652

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	AOC3CTCP6	62	65	79	49	32*	8*	39*	60	3
02	AOC3CTCP7	58	64	90	4*	0*	0*	0*	59	4
03	AOC3CTCP8	55	64	94	18*	3*	0*	6*	57	4
04	AOC3SSTB5312	52	54	55*	54	55	53	54	54	1
05	AOC3SSTB5402	46	51*	54*	49	46	48	47	48	3
06	AOC3SSD5A45	50	54	57*	54	52	54	53	53	1
07	AOC3SSD5B45	53	57	57*	56	54	48*	55	56	2
08	AOC3SSTB4945	54	58	59*	56	55	56	57	57	1
09	AOC2TB24	49	52	53*	52	52	53	52	52	1
10	SBLK2D	68	69	73	71	61	51	67	71	0
11	S2ULCS	64	67	77	73	69	75	73	67	0
12	S2ULCSD	61	66	78	70	68	70	69	63	0
13	SBLK2A	82	83	95	86	82	83	85	82	0
14	S2ALCS	81	84	98	86	85	92	87	80	0
15	AOC3CTCP6RE	89	93	102	66	24*	0*	36*	86	3
16	AOC3CTCP7RE	82	92	107	16*	0*	0*	4*	81	4
17	AOC3CTCP8RE	85	94	112	40*	10*	2*	17*	88	4
18	AOC3SSTB5312	64	72	94	71	64	90	69	58	0
19	AOC3SSTB5402	76	80	99	79	75	89	80	76	0
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(46-102)	
S2 (FBP)	= 2-Fluorobiphenyl	(52-102)	
S3 (TPH)	= Terphenyl-d14	(61-113)	
S4 (PHL)	= Phenol-d5	(45- 99)	
S5 (2FP)	= 2-Fluorophenol	(44- 95)	
S6 (TBP)	= 2,4,6-Tribromophenol	(50-111)	
S7 (2CP)	= 2-Chlorophenol-d4	(45- 97)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(44-100)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

0 0653

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	AOC3CTCP6	62	65	79	49	32*	8*	39*	60	3
02	AOC3CTCP7	58	64	90	4*	0*	0*	0*	59	4
03	AOC3CTCP8	55	64	94	18*	3*	0*	6*	57	4
04	AOC3SSTB5312	52	54	55*	54	55	53	54	54	1
05	AOC3SSTB5402	46	51*	54*	49	46	48*	47	48	3
06	AOC3SSD5A45	50	54	57*	54	52	54	53	53	1
07	AOC3SSD5B45	53	57	57*	56	54	48*	55	56	2
08	AOC3SSTB4945	54	58	59*	56	55	56	57	57	1
09	AOC2TB624	49	52	53*	52	52	53	52	52	1
10	SBLK2B	68	69	73	71	61	51	67	71	0
11	S2ULCS	64	67	77	73	69	75	73	67	0
12	S2ULCSB	61	66	78	70	68	70	69	63	0
13	SBLK2A	82	83	95	86	82	83	85	82	0
14	S2ALCS	81	84	98	86	85	92	87	80	0
15	AOC3CTCP6RE	89	93	102	66	24*	0*	36*	86	3
16	AOC3CTCP7RE	82	92	107	16*	0*	0*	4*	81	4
17	AOC3CTCP8RE	85	94	112	40*	10*	2*	17*	88	4
18	AOC3SSTB5312	64	72	94	71	64	90	69	58	0
19	AOC3SSTB5402	76	80	99	79	75	89	80	76	0
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(46-102)	
S2 (FBP)	= 2-Fluorobiphenyl	(52-102)	
S3 (TPH)	= Terphenyl-d14	(61-113)	
S4 (PHL)	= Phenol-d5	(45- 99)	
S5 (2FP)	= 2-Fluorophenol	(44- 95)	
S6 (TBP)	= 2,4,6-Tribromophenol	(50-111)	
S7 (2CP)	= 2-Chlorophenol-d4	(45- 97)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(44-100)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

0006538
4/05

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2ALCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
bis(2-Chloroethyl)Ether	1700		1300	76	43-104
1,3-Dichlorobenzene	1700		1300	76	40-101
1,4-Dichlorobenzene	1700		1300	76	41-102
1,2-Dichlorobenzene	1700		1400	82	41-105
2,2'-oxybis(1-Chloropro	1700		1300	76	41-105
N-Nitroso-di-n-prop.(1)	1700		1600	94	44-111
Hexachloroethane	1700		1300	76	40-102
Nitrobenzene	1700		1400	82	44-108
Isophorone	1700		1400	82	42-113
1,2,4-Trichlorobenzene	1700		1300	76	42-107
Naphthalene	1700		1400	82	44-112
4-Chloroaniline	1700		380	22	4-102
bis(2-Chloroethoxy)meth	1700		1400	82	46-108
Hexachlorobutadiene	1700		1300	76	41-108
2-Methylnaphthalene	1700		1300	76	46-110
Hexachlorocyclopentadie	1700		1400	82	10-118
2-Chloronaphthalene	1700		1400	82	52-112
2-Nitroaniline	1700		1500	88	63-117
Dimethylphthalate	1700		1500	88	62-117
Acenaphthylene	1700		1400	82	58-112
2,6-Dinitrotoluene	1700		1500	88	60-118
3-Nitroaniline	1700		720	42	30-117
Acenaphthene	1700		1400	82	53-116
Dibenzofuran	1700		1400	82	61-112
2,4-Dinitrotoluene	1700		1500	88	59-123
Diethylphthalate	1700		1500	88	61-120
4-Chlorophenyl-phenylet	1700		1500	88	59-116
Fluorene	1700		1500	88	63-115

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2ALCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
4-Nitroaniline	1700		1200	70	35-124
N-Nitrosodiphenylamine	1700		1900	112	50-150
4-Bromophenyl-phenyleth	1700		1500	88	66-110
Hexachlorobenzene	1700		1500	88	67-112
Phenanthrene	1700		1600	94	70-115
Anthracene	1700		1600	94	63-117
Carbazole	1700		1700	100	62-122
Di-n-butylphthalate	1700		1600	94	70-120
Fluoranthene	1700		1500	88	64-121
Pyrene	1700		1600	94	66-120
Butylbenzylphthalate	1700		1700	100	63-123
3,3'-Dichlorobenzidine	1700		420	25	8-124
Benzo(a)anthracene	1700		1500	88	50-129
Chrysene	1700		1500	88	41-150
bis(2-Ethylhexyl)phthal	1700		1600	94	64-115
Di-n-octylphthalate	1700		1500	88	69-137
Benzo(b)fluoranthene	1700		1400	82	61-129
Benzo(k)fluoranthene	1700		1800	106	62-130
Benzo(a)pyrene	1700		1500	88	66-119
Indeno(1,2,3-cd)pyrene	1700		1300	76	56-128
Dibenzo(a,h)anthracene	1700		1500	88	58-128
Benzo(g,h,i)perylene	1700		1500	88	32-149

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 50 outside limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2ELCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Phenol	50		14	28	0-127
bis(2-Chloroethyl)Ether	50		35	70	46-109
2-Chlorophenol	50		34	68	22-117
1,3-Dichlorobenzene	50		38	76	28-103
1,4-Dichlorobenzene	50		38	76	28-104
1,2-Dichlorobenzene	50		39	78	29-107
2-Methylphenol	50		32	64	40-104
2,2'-oxybis(1-Chloropro	50		38	76	10-134
4-Methylphenol	50		27	54	35-106
N-Nitroso-di-n-prop.(1)	50		43	86	44-122
Hexachloroethane	50		38	76	24-104
Nitrobenzene	50		37	74	47-112
Isophorone	50		42	84	48-118
2-Nitrophenol	50		36	72	29-122
2,4-Dimethylphenol	50		37	74	14-109
2,4-Dichlorophenol	50		38	76	31-122
1,2,4-Trichlorobenzene	50		39	78	33-108
Naphthalene	50		40	80	38-117
4-Chloroaniline	50		15	30	0-152
bis(2-Chloroethoxy)meth	50		39	78	49-112
Hexachlorobutadiene	50		39	78	28-109
4-Chloro-3-Methylphenol	50		40	80	48-117
2-Methylnaphthalene	50		40	80	43-113
Hexachlorocyclopentadie	50		40	80	34-103
2,4,6-Trichlorophenol	50		40	80	34-127
2,4,5-Trichlorophenol	50		41	82	32-131
2-Chloronaphthalene	50		41	82	47-116
2-Nitroaniline	50		39	78	51-120

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2ELCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dimethylphthalate	50		41	82	53-124
Acenaphthylene	50		42	84	50-119
2,6-Dinitrotoluene	50		41	82	52-122
3-Nitroaniline	50		37	74	47-115
Acenaphthene	50		43	86	50-121
2,4-Dinitrophenol	50		31	62	0-144
4-Nitrophenol	50		13	26	0-160
Dibenzofuran	50		40	80	51-122
2,4-Dinitrotoluene	50		41	82	52-126
Diethylphthalate	50		42	84	53-126
4-Chlorophenyl-phenylet	50		42	84	50-124
Fluorene	50		43	86	52-125
4-Nitroaniline	50		42	84	47-117
4,6-Dinitro-2-methylphe	50		37	74	3-151
N-Nitrosodiphenylamine	50		54	108	50-150
4-Bromophenyl-phenyleth	50		40	80	51-124
Hexachlorobenzene	50		43	86	52-124
Pentachlorophenol	50		37	74	5-125
Phenanthrene	50		43	86	52-128
Anthracene	50		43	86	52-127
Carbazole	50		55	110	54-126
Di-n-butylphthalate	50		42	84	56-132
Fluoranthene	50		41	82	53-130
Pyrene	50		41	82	53-131
Butylbenzylphthalate	50		40	80	54-128
3,3'-Dichlorobenzidine	50		37	74	41-117
Benzo(a)anthracene	50		41	82	56-124
Chrysene	50		37	74	53-123

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2BLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
bis(2-Ethylhexyl)phthal	50		46	92	56-127
Di-n-octylphthalate	50		35	70	59-138
Benzo(b)fluoranthene	50		32	64	58-126
Benzo(k)fluoranthene	50		40	80	60-124
Benzo(a)pyrene	50		33	66	61-121
Indeno(1,2,3-cd)pyrene	50		30	60	23-152
Dibenzo(a,h)Anthracene	50		32	64	60-122
Benzo(g,h,i)perylene	50		32	64	57-124

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 64 outside limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2PLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Phenol	50		11	22	0-127
bis(2-Chloroethyl)Ether	50		35	70	46-109
2-Chlorophenol	50		34	68	22-117
1,3-Dichlorobenzene	50		35	70	28-103
1,4-Dichlorobenzene	50		35	70	28-104
1,2-Dichlorobenzene	50		36	72	29-107
2-Methylphenol	50		30	60	40-104
2,2'-oxybis(1-Chloropro	50		37	74	10-134
4-Methylphenol	50		25	50	35-106
N-Nitroso-di-n-prop.(1)	50		39	78	44-122
Hexachloroethane	50		34	68	24-104
Nitrobenzene	50		36	72	47-112
Isophorone	50		40	80	48-118
2-Nitrophenol	50		36	72	29-122
2,4-Dimethylphenol	50		34	68	14-109
2,4-Dichlorophenol	50		37	74	31-122
1,2,4-Trichlorobenzene	50		36	72	33-108
Naphthalene	50		38	76	38-117
4-Chloroaniline	50		13	26	0-152
bis(2-Chloroethoxy)meth	50		38	76	49-112
Hexachlorobutadiene	50		35	70	28-109
4-Chloro-3-Methylphenol	50		39	78	48-117
2-Methylnaphthalene	50		39	78	43-113
Hexachlorocyclopentadie	50		36	72	34-103
2,4,6-Trichlorophenol	50		39	78	34-127
2,4,5-Trichlorophenol	50		42	84	32-131
2-Chloronaphthalene	50		40	80	47-116
2-Nitroaniline	50		42	84	51-120

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2PLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dimethylphthalate	50		42	84	53-124
Acenaphthylene	50		42	84	50-119
2,6-Dinitrotoluene	50		42	84	52-122
3-Nitroaniline	50		41	82	47-115
Acenaphthene	50		43	86	50-121
2,4-Dinitrophenol	50		38	76	0-144
4-Nitrophenol	50		14	28	0-160
Dibenzofuran	50		42	84	51-122
2,4-Dinitrotoluene	50		46	92	52-126
Diethylphthalate	50		45	90	53-126
4-Chlorophenyl-phenylet	50		45	90	50-124
Fluorene	50		46	92	52-125
4-Nitroaniline	50		53	106	47-117
4,6-Dinitro-2-methylphe	50		39	78	3-151
N-Nitrosodiphenylamine	50		54	108	50-150
4-Bromophenyl-phenyleth	50		40	80	51-124
Hexachlorobenzene	50		42	84	52-124
Pentachlorophenol	50		39	78	5-125
Phenanthrene	50		44	88	52-128
Anthracene	50		44	88	52-127
Carbazole	50		65	130*	54-126
Di-n-butylphthalate	50		44	88	56-132
Fluoranthene	50		46	92	53-130
Pyrene	50		38	76	53-131
Butylbenzylphthalate	50		40	80	54-128
3,3'-Dichlorobenzidine	50		39	78	41-217
Benzo(a)anthracene	50		43	86	56-124
Chrysene	50		39	78	53-123

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2PLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
bis(2-Ethylhexyl)phthal	50		46	92	56-127
Di-n-octylphthalate	50		34	68	59-138
Benzo(b)fluoranthene	50		34	68	58-126
Benzo(k)fluoranthene	50		39	78	60-124
Benzo(a)pyrene	50		35	70	61-121
Indeno(1,2,3-cd)pyrene	50		41	82	23-152
Dibenzo(a,h)anthracene	50		37	74	60-122
Benzo(g,h,i)perylene	50		37	74	57-124

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 1 out of 64 outside limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2ULCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Phenol	1700		1200	70	45-109
bis(2-Chloroethyl)Ether	1700		1100	65	43-104
2-Chlorophenol	1700		1200	70	43-107
1,3-Dichlorobenzene	1700		1000	59	40-101
1,4-Dichlorobenzene	1700		1000	59	41-102
1,2-Dichlorobenzene	1700		1100	65	41-105
2-Methylphenol	1700		1200	70	45-108
2,2' oxybis(1 Chloropro	1700		1100	65	41-105
4-Methylphenol	1700		1200	70	48-109
N-Nitroso-di-n-prop.(1)	1700		1300	76	44-111
Hexachloroethane	1700		1000	59	40-102
Nitrobenzene	1700		1000	59	44-108
Isophorone	1700		1200	70	42-113
2-Nitrophenol	1700		1000	59	42-111
2,4-Dimethylphenol	1700		1000	59	37-107
2,4-Dichlorophenol	1700		1100	65	49-110
1,2,4-Trichlorobenzene	1700		1000	59	42-107
Naphthalene	1700		1100	65	44-112
4-Chloroaniline	1700		120	7	4-102
bis(2-Chloroethoxy)meth	1700		1100	65	46-108
Hexachlorobutadiene	1700		1000	59	41-108
4-Chloro-3-Methylphenol	1700		1200	70	56-117
2-Methylnaphthalene	1700		1100	65	46-110
Hexachlorocyclopentadie	1700		670	39	10-118
2,4,6-Trichlorophenol	1700		1100	65	53-115
2,4,5-Trichlorophenol	1700		1200	70	59-113
2-Chloronaphthalene	1700		1100	65	52-112
2-Nitroaniline	1700		1100	65	63-117

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

0 0662

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2ULCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Dimethylphthalate	1700		1200	70	62-117
Acenaphthylene	1700		1100	65	58-112
2,6-Dinitrotoluene	1700		1200	70	60-118
3-Nitroaniline	1700		460	27*	30-117
Acenaphthene	1700		1100	65	53-116
2,4-Dinitrophenol	1700		1400	82	15-136
4-Nitrophenol	1700		1100	65	50-129
Dibenzofuran	1700		1100	65	61-112
2,4-Dinitrotoluene	1700		1200	70	59-123
Diethylphthalate	1700		1200	70	61-120
4-Chlorophenyl-phenylet	1700		1200	70	59-116
Fluorene	1700		1200	70	63-115
4-Nitroaniline	1700		820	48	35-124
4,6-Dinitro-2-methylphe	1700		1300	76	33-130
N-Nitrosodiphenylamine	1700		1400	82	50-150
4-Bromophenyl-phenyleth	1700		1100	65*	66-110
Hexachlorobenzene	1700		1200	70	67-112
Pentachlorophenol	1700		1200	70	19-130
Phenanthrene	1700		1200	70	70-115
Anthracene	1700		1000	59*	63-117
Carbazole	1700		1300	76	62-122
Di-n-butylphthalate	1700		1200	70	70-120
Fluoranthene	1700		1200	70	64-121
Pyrene	1700		1200	70	66-120
Butylbenzylphthalate	1700		1300	76	63-123
3,3'-Dichlorobenzidine	1700		130	8	6-124
Benzo(a)anthracene	1700		1200	70	50-129
Chrysene	1700		1200	70	41-150

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

0 0663

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2ULCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
bis(2-Ethylhexyl)phthal	1700		1200	70	64-115
Di-n-octylphthalate	1700		1300	76	69-137
Benzo(b)fluoranthene	1700		1300	76	61-129
Benzo(k)fluoranthene	1700		1500	88	62-130
Benzo(a)pyrene	1700		1100	65*	66-119
Indeno(1,2,3-cd)pyrene	1700		1200	70	56-128
Dibenzo(a,h)anthracene	1700		1300	76	58-128
Benzo(g,h,i)perylene	1700		1300	76	52-149

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

0 0664

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2ULCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	1700	1100	65	7	40	45-109
bis(2-Chloroethyl)Ether	1700	1000	59	10	40	43-104
2-Chlorophenol	1700	1000	59	17	40	43-107
1,3-Dichlorobenzene	1700	990	58	2	40	40-101
1,4-Dichlorobenzene	1700	970	57	3	40	41-102
1,2-Dichlorobenzene	1700	1000	59	10	40	41-105
2-Methylphenol	1700	1000	59	17	40	45-108
2,2'-oxybis(1-Chloropro	1700	1000	59	10	40	41-105
4-Methylphenol	1700	1100	65	7	40	48-109
N-Nitroso-di-n-prop.(1)	1700	1200	70	8	40	44-111
Hexachloroethane	1700	980	58	2	40	40-102
Nitrobenzene	1700	1000	59	0	40	44-108
Isophorone	1700	1100	65	7	40	42-113
2-Nitrophenol	1700	980	58	2	40	42-111
2,4-Dimethylphenol	1700	560	33*	56*	40	37-107
2,4-Dichlorophenol	1700	1100	65	0	40	49-110
1,2,4-Trichlorobenzene	1700	1000	59	0	40	42-107
Naphthalene	1700	1000	59	10	40	44-112
4-Chloroaniline	1700	260	15	73*	40	4-102
bis(2-Chloroethoxy)meth	1700	1000	59	10	40	46-108
Hexachlorobutadiene	1700	980	58	2	40	41-108
4-Chloro-3-Methylphenol	1700	1100	65	7	40	56-117
2-Methylnaphthalene	1700	1000	59	10	40	46-110
Hexachlorocyclopentadie	1700	530	31	23	40	10-118
2,4,6-Trichlorophenol	1700	1000	59	10	40	53-115
2,4,5-Trichlorophenol	1700	1100	65	7	40	59-113
2-Chloronaphthalene	1700	1100	65	0	40	52-112
2-Nitroaniline	1700	1100	65	0	40	63-117

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

0 0665

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2ULCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dimethylphthalate	1700	1100	65	7	40	62-117
Acenaphthylene	1700	330	19*	110*	40	58-112
2,6-Dinitrotoluene	1700	1100	65	7	40	60-118
3-Nitroaniline	1700	790	46	52*	40	30-117
Acenaphthene	1700	1100	65	0	40	53-116
2,4-Dinitrophenol	1700	1300	76	8	40	15-136
4-Nitrophenol	1700	1100	65	0	40	50-129
Dibenzofuran	1700	1100	65	0	40	61-112
2,4-Dinitrotoluene	1700	1200	70	0	40	59-123
Diethylphthalate	1700	1200	70	0	40	61-120
4-Chlorophenyl-phenylet	1700	1100	65	7	40	59-116
Fluorene	1700	1100	65	7	40	63-115
4-Nitroaniline	1700	930	55	14	40	35-124
4,6-Dinitro-2-methylphe	1700	1200	70	8	40	33-130
N-Nitrosodiphenylamine	1700	1300	76	8	40	50-150
4-Bromophenyl-phenyleth	1700	1100	65*	0	40	66-110
Hexachlorobenzene	1700	1100	65*	7	40	67-112
Pentachlorophenol	1700	1100	65	7	40	19-130
Phenanthrene	1700	1200	70	0	40	70-115
Anthracene	1700	1000	59*	0	40	63-117
Carbazole	1700	1300	76	0	40	62-122
Di-n-butylphthalate	1700	1200	70	0	40	70-120
Fluoranthene	1700	1200	70	0	40	64-121
Pyrene	1700	1200	70	0	40	66-120
Butylbenzylphthalate	1700	1300	76	0	40	63-123
3,3'-Dichlorobenzidine	1700	520	30	116*	40	8-124
Benzo(a)anthracene	1700	1200	70	0	40	50-129
Chrysene	1700	1200	70	0	40	41-150

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: S2ULCS Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
bis(2-Ethylhexyl)phthal	1700	1200	70	0	40	64-115
Di-n-octylphthalate	1700	1200	70	8	40	69-137
Benzo(b)fluoranthene	1700	1300	76	0	40	61-129
Benzo(k)fluoranthene	1700	1400	82	7	40	62-130
Benzo(a)pyrene	1700	1200	70	7	40	66-119
Indeno(1,2,3-cd)pyrene	1700	1200	70	0	40	56-128
Dibenzo(a,h)anthracene	1700	1300	76	0	40	58-128
Benzo(g,h,i)perylene	1700	1300	76	0	40	32-149

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 5 out of 64 outside limits
Spike Recovery: 9 out of 128 outside limits

COMMENTS: _____

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.: SBLK2E

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID: S2D0818 Lab Sample ID: MB-4910

Instrument ID: S2 Date Extracted: 12/24/02

Matrix: (soil/water) WATER Date Analyzed: 12/26/02

Level: (low/med) LOW Time Analyzed: 1901

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	S2ELCS	LCS-4910	S2D0819	12/26/02
02	AOC2E6	A1905-26C	S2D0985	01/06/03
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.: SBLK2F

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID: S2D0838 Lab Sample ID: MB-4921

Instrument ID: S2 Date Extracted: 12/26/02

Matrix: (soil/water) WATER Date Analyzed: 12/27/02

Level: (low/med) LOW Time Analyzed: 1120

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	S2FLCS	LCS-4921	S2D0842	12/27/02
02	AOC3BB3	A1905-07A	S2D0980	01/06/03
03	AOC3BB4	A1905-08A	S2D0981	01/06/03
04	AOC5E7	A1905-14D	S2D0982	01/06/03
05	AOC5WTB62W	A1905-16E	S2D0983	01/06/03
06	AOC7WTB65GW	A1905-18E	S2D0984	01/06/03
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
SBLK2U

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Lab File ID: S2D1206 Lab Sample ID: MB-4928
Instrument ID: S2 Date Extracted: 12/27/02
Matrix: (soil/water) SOIL Date Analyzed: 01/18/03
Level: (low/med) LOW Time Analyzed: 1556

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	AOC3CTCP6	A1905-01D	S2D0950	01/03/03
02	AOC3CTCP7	A1905-02D	S2D0951	01/03/03
03	AOC3CTCP8	A1905-03D	S2D0952	01/04/03
04	AOC3SSTB5312	A1905-05C	S2D0953	01/04/03
05	AOC3SSTB5402	A1905-06C	S2D0954	01/04/03
06	AOC3SSD5A45	A1905-11A	S2D0955	01/04/03
07	AOC3SSD5B45	A1905-12A	S2D0956	01/04/03
08	AOC3SSTB4945	A1905-13A	S2D0957	01/04/03
09	AOC2TB24	A1905-28A	S2D0958	01/04/03
10	S2ULCS	LCS-4928	S2D1207	01/18/03
11	S2ULCSD	LCSD-4928	S2D1208	01/18/03
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

0 0670

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
SBLK2U

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Lab File ID: S2D1206 Lab Sample ID: MB-4928
Instrument ID: S2 Date Extracted: 12/27/02
Matrix: (soil/water) SOIL Date Analyzed: 01/18/03
Level: (low/med) LOW Time Analyzed: 1556

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	AOC3CTCP6	A1905-01D	S2D0950	01/03/03
02	AOC3CTCP7	A1905-02D	S2D0951	01/03/03
03	AOC3CTCP8	A1905-03D	S2D0952	01/04/03
04	AOC3SSTB5312	A1905-05C	S2D0953	01/04/03
05	AOC3SSTB5402	A1905-06C	S2D0954	01/04/03
06	AOC3SSD5A45	A1905-11A	S2D0955	01/04/03
07	AOC3SSD5B45	A1905-12A	S2D0956	01/04/03
08	AOC3SSTB4945	A1905-13A	S2D0957	01/04/03
09	AOC2TB24	A1905-28A	S2D0958	01/04/03
10	S2ULCS	LCS-4928	S2D1207	01/18/03
11	S2ULCSD	LCSD-4928	S2D1208	01/18/03
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

page 1 of 1 FORM IV SV OLM03.0

0006702
2/4/03

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
SBLK2A

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Lab File ID: S2D1265 Lab Sample ID: MB-5197
Instrument ID: S2 Date Extracted: 01/20/03
Matrix: (soil/water) SOIL Date Analyzed: 01/21/03
Level: (low/med) LOW Time Analyzed: 1237

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	S2ALCS	LCS-5197	S2D1267	01/21/03
02	AOC3CTCP6RE	A1905-01DRE	S2D1271	01/21/03
03	AOC3CTCP7RE	A1905-02DRE	S2D1272	01/21/03
04	AOC3CTCP8RE	A1905-03DRE	S2D1273	01/21/03
05	AOC3SSTB5312	A1905-05CRE	S2D1274	01/21/03
06	AOC3SSTB5402	A1905-06CRE	S2D1275	01/21/03
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

0 0671

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Lab File ID: S2D0723 DFTPP Injection Date: 12/19/02
Instrument ID: S2 DFTPP Injection Time: 0032

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	36.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	46.0
70	Less than 2.0% of mass 69	0.4 (0.8)1
127	40.0 - 60.0% of mass 198	43.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	20.7
365	Greater than 1.0% of mass 198	2.12
441	Present, but less than mass 443	12.9
442	40.0 - 99.9% of mass 198	96.4
443	17.0 - 23.0% of mass 442	18.0 (18.6)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0502P	SS1218A	S2D0724	12/19/02	0052
02	SSTD1602P	SS1218B	S2D0725	12/19/02	0139
03	SSTD0102P	SS1218C	S2D0726	12/19/02	0223
04	SSTD0202P	SS1218D	S2D0727	12/19/02	0310
05	SSTD0802P	SS1218E	S2D0728	12/19/02	0353
06	SSTD1202P	SS1218F	S2D0729	12/19/02	0439
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

0 0672

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID: S2D0812 DFTPP Injection Date: 12/26/02

Instrument ID: S2 DFTPP Injection Time: 1504

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	36.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	45.4
70	Less than 2.0% of mass 69	0.2 (0.3)1
127	40.0 - 60.0% of mass 198	43.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	21.0
365	Greater than 1.0% of mass 198	2.33
441	Present, but less than mass 443	14.1
442	40.0 - 99.9% of mass 198	80.2
443	17.0 - 23.0% of mass 442	15.8 (19.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0502Y	SS1226B	S2D0813	12/26/02	1526
02	SBLK2E	MB-4910	S2D0818	12/26/02	1901
03	S2BLCS	LCS-4910	S2D0819	12/26/02	1947
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID: S2D0836 DFTPP Injection Date: 12/27/02

Instrument ID: S2 DFTPP Injection Time: 1003

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	37.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	46.8
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	43.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	20.8
365	Greater than 1.0% of mass 198	2.37
441	Present, but less than mass 443	14.5
442	40.0 - 99.9% of mass 198	85.0
443	17.0 - 23.0% of mass 442	16.3 (19.2)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0502E	SS1227A	S2D0837	12/27/02	1032
02	SBLK2F	MB-4921	S2D0838	12/27/02	1120
03	S2FLCS	LCS-4921	S2D0842	12/27/02	1416
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID: S2D0932 DFTPP Injection Date: 01/03/03

Instrument ID: S2 DFTPP Injection Time: 1210

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	34.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	42.4
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	42.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	22.0
365	Greater than 1.0% of mass 198	2.58
441	Present, but less than mass 443	15.5
442	40.0 - 99.9% of mass 198	86.7
443	17.0 - 23.0% of mass 442	16.6 (19.1)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD1602F	SS0103B	S2D0935	01/03/03	1415
02	SSTD0102F	SS0103C	S2D0936	01/03/03	1456
03	SSTD0502F	SS0103A	S2D0937	01/03/03	1538
04	SSTD0202F	SS0103D	S2D0938	01/03/03	1621
05	SSTD0802F	SS0103E	S2D0939	01/03/03	1703
06	SSTD1202F	SS0103F	S2D0940	01/03/03	1747
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID: S2D0942 DFTPP Injection Date: 01/03/03

Instrument ID: S2 DFTPP Injection Time: 1905

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	32.[illegible]
68	Less than 2.0% of mass 69	[illegible] (0.0)1
69	Mass 69 relative abundance	[illegible].5
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	40.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	22.5
365	Greater than 1.0% of mass 198	2.59
441	Present, but less than mass 443	7.8
442	40.0 - 99.9% of mass 198	89.7
443	17.0 - 23.0% of mass 442	17.2 (19.1)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0502G	SS0103B	S2D0943	01/03/03	1926
02	AOC3CTCP6	A1905-01D	S2D0950	01/03/03	2258
03	AOC3CTCP7	A1905-02D	S2D0951	01/03/03	2340
04	AOC3CTCP8	A1905-03D	S2D0952	01/04/03	0022
05	AOC3SSTB5312	A1905-05C	S2D0953	01/04/03	0106
06	AOC3SSTB5402	A1905-06C	S2D0954	01/04/03	0148
07	AOC3SSD5A45	A1905-11[illegible]	S2D0955	01/04/03	0230
08	AOC3SSD5B45	A1905-12[illegible]	S2D0956	01/04/03	0314
09	AOC3SSTB4945	A1905-[illegible]A	S2D0957	01/04/03	0356
10	AOC2TB24	A1905-[illegible]8A	S2D0958	01/04/03	0438
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID: S2D0942 DFTPP Injection Date: 01/03/03

Instrument ID: S2 DFTPP Injection Time: 1905

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	32.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	40.5
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	40.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	22.5
365	Greater than 1.0% of mass 198	2.59
441	Present, but less than mass 443	7.8
442	40.0 - 99.9% of mass 198	89.7
443	17.0 - 23.0% of mass 442	17.2 (19.1)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0502G	SS0103B	S2D0943	01/03/03	1926
02	AOC3CTCP6	A1905-01D	S2D0950	01/03/03	2258
03	AOC3CTCP7	A1905-02D	S2D0951	01/03/03	2340
04	AOC3CTCP8	A1905-03D	S2D0952	01/04/03	0022
05	AOC1SSTB5312	A1905-05C	S2D0953	01/04/03	0106
06	AOC3SSTB5402	A1905-06C	S2D0954	01/04/03	0148
07	AOC3SSD5M45	A1905-11A	S2D0955	01/04/03	0230
08	AOC3SSD5B45	A1905-12A	S2D0956	01/04/03	0314
09	AOC3SSTB4945	A1905-13A	S2D0957	01/04/03	0356
10	AOC2TB5624	A1905-28A	S2D0958	01/04/03	0438
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

~~0607~~ am 2/4/03
000676R
2/4/03

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID: S2D0972 DFTPP Injection Date: 01/06/03

Instrument ID: S2 DFTPP Injection Time: 1137

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	35.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	44.1
70	Less than 2.0% of mass 69	0.1 (0.2)1
127	40.0 - 60.0% of mass 198	42.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	21.5
365	Greater than 1.0% of mass 198	2.51
441	Present, but less than mass 443	14.6
442	40.0 - 99.9% of mass 198	83.1
443	17.0 - 23.0% of mass 442	15.8 (19.0)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0502I	SS0106A	S2D0973	01/06/03	1158
02	AOC3BB3	A1905-07A	S2D0980	01/06/03	1710
03	AOC3BB4	A1905-08A	S2D0981	01/06/03	1752
04	AOC5E7	A1905-14D	S2D0982	01/06/03	1835
05	AOC5WTB62W	A1905-16E	S2D0983	01/06/03	1916
06	AOC7WTB65GW	A1905-18E	S2D0984	01/06/03	2000
07	AOC2E6	A1905-26C	S2D0985	01/06/03	2041
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

0 0677

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID: S2D1195 DFTPP Injection Date: 01/18/03

Instrument ID: S2 DFTPP Injection Time: 0822

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	37.9
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	44.7
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	42.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	22.8
365	Greater than 1.0% of mass 198	2.75
441	Present, but less than mass 443	14.6
442	40.0 - 99.9% of mass 198	79.5
443	17.0 - 23.0% of mass 442	15.6 (19.6)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0502A	SS0118A	S2D1196	01/18/03	0845
02	SSTD1602A	SS0118B	S2D1197	01/18/03	0927
03	SSTD0102A	SS0118C	S2D1198	01/18/03	1009
04	SSTD0802A	SS0118E	S2D1200	01/18/03	1130
05	SSTD1202A	SS0118F	S2D1201	01/18/03	1213
06	SSTD0202A	SS0118D	S2D1202	01/18/03	1256
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

0 0678

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID: S2D1204 DFTPP Injection Date: 01/18/03

Instrument ID: S2 DFTPP Injection Time: 1427

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	38.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	44.7
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	42.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	22.9
365	Greater than 1.0% of mass 198	2.56
441	Present, but less than mass 443	15.8
442	40.0 - 99.9% of mass 198	83.6
443	17.0 - 23.0% of mass 442	16.3 (19.5)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0502B	SS0118B	S2D1205	01/18/03	1449
02	SBLK2U	MB-4928	S2D1206	01/18/03	1556
03	S2ULCS	LCS-4928	S2D1207	01/18/03	1641
04	S2ULCSD	LCSD-4928	S2D1208	01/18/03	1724
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

0 0679

5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID: S2D1263 DFTPP Injection Date: 01/21/03

Instrument ID: S2 DFTPP Injection Time: 1052

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	36.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	44.3
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	41.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.5
275	10.0 - 30.0% of mass 198	23.2
365	Greater than 1.0% of mass 198	2.57
441	Present, but less than mass 443	12.2
442	40.0 - 99.9% of mass 198	82.3
443	17.0 - 23.0% of mass 442	16.1 (19.6)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD0502F	SS0121A	S2D1264	01/21/03	1124
02	SBLK2A	MB-5197	S2D1265	01/21/03	1237
03	S2ALCS	LCS-5197	S2D1267	01/21/03	1402
04	AOC3CTCP6RE	A1905-01DRE	S2D1271	01/21/03	1649
05	AOC3CTCP7RE	A1905-02DRE	S2D1272	01/21/03	1730
06	AOC3CTCP8RE	A1905-03DRE	S2D1273	01/21/03	1811
07	AOC3SSTB5312	A1905-05CRE	S2D1274	01/21/03	1852
08	AOC3SSTB5402	A1905-06CRE	S2D1275	01/21/03	1936
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): S2D0813 Date Analyzed: 12/26/02

Instrument ID: S2 Time Analyzed: 1526

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	189309	8.81	662994	11.28	338300	14.84
	UPPER LIMIT	378618	9.31	1325988	11.78	676600	15.34
	LOWER LIMIT	94655	8.31	331497	10.78	169150	14.34
	EPA SAMPLE NO.						
01	SBLK2E	155564	8.80	524064	11.25	270612	14.82
02	S2RLCS	161579	8.80	560058	11.26	289919	14.83
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): S2D0813 Date Analyzed: 12/26/02

Instrument ID: S2 Time Analyzed: 1526

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	535076	17.88	412710	23.31	234666	26.45
	UPPER LIMIT	1070152	18.38	825420	23.81	469332	26.95
	LOWER LIMIT	267538	17.38	206355	22.81	117333	25.95
	EPA SAMPLE NO.						
01	SBLK2E	420824	17.87	343351	23.30	219842	26.44
02	S2RLCS	460654	17.87	368089	23.30	243722	26.44
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): S2D0837 Date Analyzed: 12/27/02

Instrument ID: S2 Time Analyzed: 1032

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	147452	8.77	540373	11.23	279671	14.78
	UPPER LIMIT	294904	9.27	1080746	11.73	559342	15.28
	LOWER LIMIT	73726	8.27	270187	10.73	139836	14.28
	EPA SAMPLE NO.						
01	SBLK2F	114253	8.77	407888	11.23	226599	14.78
02	S2FLCS	126854	8.77	463622	11.23	244573	14.79
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): S2D0837 Date Analyzed: 12/27/02

Instrument ID: S2 Time Analyzed: 1032

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	483443	17.84	435088	23.27	263555	26.39
UPPER LIMIT	966886	18.34	870176	23.77	527110	26.89
LOWER LIMIT	241722	17.34	217544	22.77	131778	25.89
EPA SAMPLE NO.						
01 SBLK2F	380314	17.84	390481	23.26	269829	26.39
02 S2FLCS	431961	17.84	408311	23.27	299946	26.40
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): S2D0943 Date Analyzed: 01/03/03

Instrument ID: S2 Time Analyzed: 1926

	IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA	RT #
12 HOUR STD	53827	8.41	203776	10.84	113871	14.39
UPPER LIMIT	107654	8.91	407552	11.34	227742	14.89
LOWER LIMIT	26914	7.91	101888	10.34	56936	13.89
EPA SAMPLE NO.						
01 AOC3CTCP6	123363*	8.42	409856*	10.85	216508	14.40
02 AOC3CTCP7	133534*	8.42	455681*	10.85	237597*	14.40
03 AOC3CTCP8	116685*	8.42	403206*	10.85	205997	14.40
04 AOC3SSTB5312	95031	8.42	345516	10.86	190280	14.40
05 AOC3SSTB5402	126185*	8.42	453440*	10.86	250900*	14.40
06 AOC3SSD5A45	111682*	8.42	404992	10.85	225705	14.40
07 AOC3SSD5B45	122643*	8.43	444866*	10.86	243522*	14.40
08 AOC3SSTB4945	130828*	8.42	475715*	10.86	260664*	14.40
09 AOC2TB24	132352*	8.42	483432*	10.86	272244*	14.40
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): S2D0943 Date Analyzed: 01/03/03

Instrument ID: S2 Time Analyzed: 1926

	IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
12 HOUR STD	53827	8.41	203776	10.84	113871	14.39
UPPER LIMIT	107654	8.91	407552	11.34	227742	14.89
LOWER LIMIT	26914	7.91	101888	10.34	56936	13.89
EPA SAMPLE NO.						
01 AOC3CTCP6	123363*	8.42	409856*	10.85	216508	14.40
02 AOC3CTCP7	133534*	8.42	455681*	10.85	237597*	14.40
03 AOC3CTCP8	116685*	8.42	403206*	10.85	205997	14.40
04 AOC3SSTB5312	95031	8.42	345516	10.86	190280	14.40
05 AOC3SSTB5402	126185*	8.42	453440*	10.86	250900*	14.40
06 AOC3SSD5A45	111682*	8.42	404992	10.85	225705	14.40
07 AOC3SSD5B45	122643*	8.43	444866*	10.86	243522*	14.40
08 AOC3SSTB4945	130828*	8.42	475715*	10.86	260664*	14.40
09 AOC2TB24	132352*	8.42	483432*	10.86	272244*	14.40
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

0006Y5 R
2/4/03

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): S2D0943 Date Analyzed: 01/03/03

Instrument ID: S2 Time Analyzed: 1926

	IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD	199963	17.42	189880	22.83	91281	25.96
UPPER LIMIT	399926	17.92	379760	23.33	182562	26.26
LOWER LIMIT	99982	16.92	94940	22.33	45641	25.26
EPA SAMPLE NO.						
01 AOC3CTCP6	326611	17.43	199049	22.85	85367	25.80
02 AOC3CTCP7	343646	17.43	155110	22.85	54866	25.81
03 AOC3CTCP8	288960	17.43	118655	22.84	45863	25.82
04 AOC3SSTB5312	326869	17.43	316114	22.84	212684*	25.79
05 AOC3SSTB5402	428240*	17.43	403908*	22.84	258621*	25.79
06 AOC3SSD5A45	393430	17.43	395212*	22.84	261865*	25.79
07 AOC3SSD5B45	428395*	17.43	427392*	22.84	281711*	25.80
08 AOC3SSTB4945	440943*	17.44	424317*	22.84	248566*	25.79
09 AOC2TB24	480787*	17.43	464857*	22.84	297933*	25.80
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): S2D0943 Date Analyzed: 01/03/03

Instrument ID: S2 Time Analyzed: 1926

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	199963	17.42	189880	22.83	91281	25.76
	UPPER LIMIT	399926	17.92	379760	23.33	182562	26.26
	LOWER LIMIT	99982	16.92	94940	22.33	45641	25.26
	EPA SAMPLE NO.						
01	AOC3CTCP6	326611	17.43	199049	22.85	85367	25.80
02	AOC3CTCP7	343646	17.43	155110	22.85	54866	25.81
03	AOC3CTCP8	288960	17.43	118655	22.85	45863	25.82
04	AOC3SSTB5312	326869	17.43	316114	22.84	212684*	25.79
05	AOC3SSTB5402	428240*	17.43	403908*	22.84	258621*	25.79
06	AOC3SSD5A45	392430	17.43	395212*	22.84	261865*	25.79
07	AOC3SSD5B45	428396*	17.43	427392*	22.84	281711*	25.80
08	AOC3SSTB4945	440943*	17.44	424317*	22.84	248566*	25.79
09	AOC2TB5624	480787*	17.43	464859*	22.84	297933*	25.80
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

0006868
2/4/03

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): S2D0973 Date Analyzed: 01/06/03

Instrument ID: S2 Time Analyzed: 1158

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	98043	8.32	329135	10.76	178249	14.29
	UPPER LIMIT	196086	8.82	658270	11.26	356498	14.79
	LOWER LIMIT	49022	7.82	164568	10.26	89125	13.79
	EPA SAMPLE NO.						
01	AOC3BB3	99477	8.32	343489	10.75	184432	14.29
02	AOC3BB4	95879	8.32	334566	10.75	177345	14.29
03	AOC5R7	95602	8.32	325063	10.76	175779	14.29
04	AOC5WTB62W	90589	8.31	311091	10.75	165343	14.29
05	AOC7WTB65GW	97667	8.32	335427	10.76	175114	14.29
06	AOC2E6	93899	8.32	322220	10.75	172878	14.29
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

0 0687

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): S2D0973 Date Analyzed: 01/06/03

Instrument ID: S2 Time Analyzed: 1158

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	304486	17.33	295025	22.73	203879	25.63
	UPPER LIMIT	608972	17.83	590050	23.23	407758	26.13
	LOWER LIMIT	152243	16.83	147513	22.23	101940	25.13
	EPA SAMPLE NO.						
01	AOC3BB3	313161	17.32	307152	22.72	213421	25.62
02	AOC3BB4	307134	17.33	307279	22.72	215311	25.63
03	AOC5E7	301882	17.32	297977	22.72	209196	25.62
04	AOC5WTB62W	286471	17.32	279391	22.72	200049	25.63
05	AOC7WTB65GW	286568	17.32	291058	22.72	209353	25.62
06	AOC2E6	295234	17.32	291732	22.72	202266	25.62
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

0 0688

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): S2D1205 Date Analyzed: 01/18/03

Instrument ID: S2 Time Analyzed: 1449

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	45860	7.93	157379	10.35	86089	13.87
	UPPER LIMIT	91720	8.43	314758	10.85	172178	14.37
	LOWER LIMIT	22930	7.43	78690	9.85	43045	13.37
	EPA SAMPLE NO.						
01	SBLK2U	69680	7.93	251413	10.35	136948	13.87
02	S2ULCS	58543	7.93	217041	10.35	119920	13.87
03	S2ULCSD	52352	7.93	192163	10.35	105703	13.87
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

0 0689

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): S2D1205 Date Analyzed: 01/18/03

Instrument ID: S2 Time Analyzed: 1449

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	152997		16.89		155125		22.28		107356		25.04	
	UPPER LIMIT	305994		17.39		310250		22.78		214712		25.54	
	LOWER LIMIT	76499		16.39		77563		21.78		53678		24.54	
	EPA SAMPLE NO.												
01	SBLK2U	243256		16.88		255638		22.27		170097		25.04	
02	S2ULCS	217457		16.89		213369		22.28		131580		25.04	
03	S2ULCSD	191608		16.88		187511		22.27		117307		25.03	
04													
05													
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): S2D1264 Date Analyzed: 01/21/03

Instrument ID: S2 Time Analyzed: 1124

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
	12 HOUR STD	41079		7.75		142248		10.16		76312		13.67	
	UPPER LIMIT	82158		8.25		284496		10.66		152624		14.17	
	LOWER LIMIT	20540		7.25		71124		9.66		38156		13.17	
	EPA SAMPLE NO.												
01	SBLK2A	32971		7.74		117023		10.15		62792		13.66	
02	S2ALCS	33560		7.75		117197		10.15		64386		13.67	
03	AOC3CTCP6RE	37256		7.75		122479		10.16		64722		13.67	
04	AOC3CTCP7RE	31851		7.75		110643		10.16		57744		13.66	
05	AOC3CTCP8RE	37901		7.75		132340		10.16		68720		13.67	
06	AOC3SSTB5312	32574		7.74		113362		10.15		60626		13.66	
07	AOC3SSTB5402	38782		7.75		135374		10.16		72251		13.67	
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab File ID (Standard): S2D1264 Date Analyzed: 01/21/03

Instrument ID: S2 Time Analyzed: 1124

		IS4 (PHN) AREA	#	RT	#	IS5 (CRY) AREA	#	RT	#	IS6 (PRY) AREA	#	RT	#
	12 HOUR STD	132509		16.68		127242		22.05		79362		24.76	
	UPPER LIMIT	265018		17.18		254484		22.55		158724		25.26	
	LOWER LIMIT	66255		16.18		63621		21.55		39681		24.26	
	EPA SAMPLE NO.												
01	SBLK2A	109412		16.67		106194		22.03		70230		24.75	
02	S2ALCS	111820		16.67		105668		22.05		69955		24.76	
03	AOC3CTCP6RE	99413		16.69		72805		22.08		34671	*	24.82	
04	AOC3CTCP7RE	92597		16.68		70489		22.07		34065	*	24.83	
05	AOC3CTCP8RE	106151		16.69		66035		22.09		29965	*	24.85	
06	AOC3SSTB5312	102587		16.67		96273		22.03		64095		24.76	
07	AOC3SSTB5402	122433		16.68		106755		22.04		70618		24.76	
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2E6

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-26C

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0985

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 12/26/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/06/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2B6

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-26C
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0985
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroanilline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

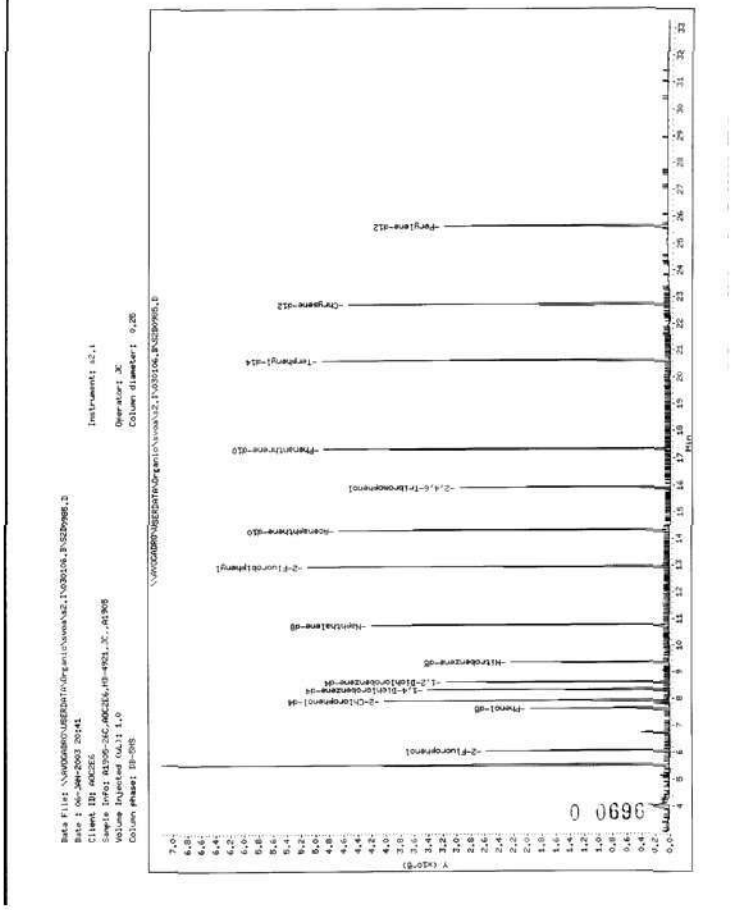
EPA SAMPLE NO.
AOC2B6

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-26C
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0985
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM03.0



Data File: S2D0985.D
Report Date: 29-Jan-2003 17:26

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\S2D0985.D
Lab Smp Id: A1905-26C Client Smp ID: AOC2B6
Inj Date : 06-JAN-2003 20:41
Operator : JC Inst ID: s2.i
Smp Info : A1905-26C,AOC2B6,MB-4921,JC,,A1905
Misc Info : 0,,,1,,,,,,,,26-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\s2_8270C.m
Meth Date : 23-Jan-2003 14:49 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 87
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)	
$	9 2-Fluorophenol	112	6.041	6.034	(0.726)	124764	36.9264	37	
$	5 Phenol-d5	99	7.617	7.620	(0.914)	114751	26.5948	26	
$	9 2-Chlorophenol-d4	132	7.898	7.901	(0.949)	191956	54.9194	55	
*	13 1,4-Dichlorobenzene-d4	152	8.319	8.322	(1.000)	93899	40.0000		(Q)
$	14 1,2-Dichlorobenzene-d4	152	8.600	8.603	(1.034)	85102	42.1411	42	
$	32 Nitrobenzene-d5	82	9.345	9.358	(0.849)	126770	40.7494	41	
*	31 Naphthalene-d8	136	10.748	10.762	(1.000)	333220	40.0000		
$	41 2-Fluorobiphenyl	172	12.929	12.932	(0.905)	261647	44.9783	45	
*	48 Acenaphthene-d10	164	14.289	14.292	(1.000)	172878	40.0000		
$	60 2,4,6-Tribromophenol	330	15.897	15.900	(0.918)	67711	47.1047	47	
*	66 Phenanthrene-d10	188	17.322	17.325	(1.000)	295234	40.0000		
$	72 Terphenyl-d14	244	20.604	20.596	(0.907)	300749	44.4488	44	
*	76 Chrysene-d12	240	22.720	22.734	(1.000)	291732	40.0000		
*	83 Perylene-d12	264	26.624	26.637	(1.000)	202266	40.0000		

1/13/03

Data File: S2D0985.D
Report Date: 29-Jan-2003 17:26

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: S2D0985.D
Report Date: 29-Jan-2003 17:26

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\S2D0985.D
Lab Smp Id: A1905-26C Client Smp ID: AOC2E6
Inj Date : 06-JAN-2003 20:41
Operator : JC Inst ID: s2.i
Smp Info : A1905-26C,AOC2E6,MB-4921,JC,,A1905
Misc Info : 0,,,1,,,,,,,,26-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\s2_8270C.m
Meth Date : 23-Jan-2003 14:49 mel Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 87
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC2TB24

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-28A
Sample wt/vol: 30.1 (g/mL) G Lab File ID: S2D0958
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 9 decanted: (Y/N) N Date Extracted: 12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)Ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-Methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	730	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	730	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	730	U
83-32-9	Acenaphthene	360	U

FORM I SV-1 OLM03.0

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC2TB5624

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-28A
Sample wt/vol: 30.1 (g/mL) G Lab File ID: S2D0958
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 9 decanted: (Y/N) N Date Extracted: 12/24/02
Concenttated Extract Volume: 1000(mL) Date Analyzed: 01/04/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)Ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-Methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	730	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	730	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	730	U
83-32-9	Acenaphthene	360	U

FORM I SV-1 OLM03.0

0007008
2/4/03

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2TB24

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-28A
Sample wt/vol: 30.1 (g/mL) G Lab File ID: S2D0958
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 9 decanted: (Y/N) N Date Extracted: 12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	730	U
100-02-7	4-Nitrophenol	730	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	730	U
534-52-1	4,6-Dinitro-2-methylphenol	730	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	730	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenzo(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	360	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

0 0701

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2TB5624

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-28A
Sample wt/vol: 30.1 (g/mL) G Lab File ID: S2D0958
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 9 decanted: (Y/N) N Date Extracted: 12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	730	U
100-02-7	4-Nitrophenol	730	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	730	U
534-52-1	4,6-Dinitro-2-methylphenol	730	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	730	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenzo(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	360	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

000701R 3/4/03

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC2TB24

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-28A
Sample wt/vol: 30.1 (g/mL) G Lab File ID: S2D0958
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 9 decanted: (Y/N) N Date Extracted: 12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.9	780	J
2.	UNKNOWN	8.08	190	J
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM03.0

0 0702

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC2TB5624

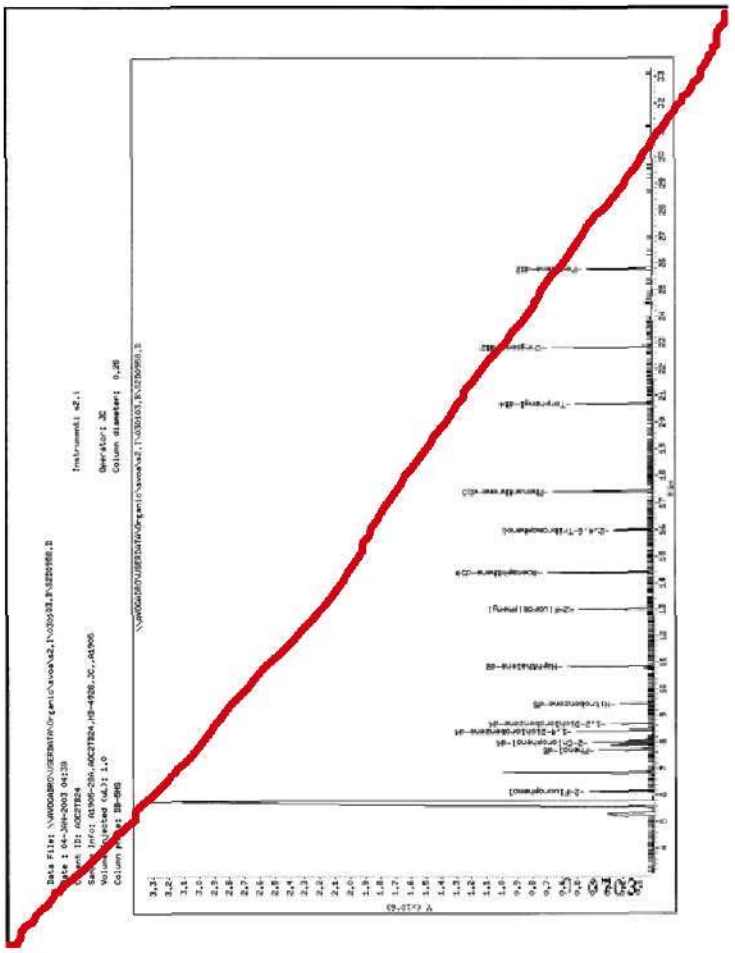
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-28A
Sample wt/vol: 30.1 (g/mL) G Lab File ID: S2D0958
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 9 decanted: (Y/N) N Date Extracted: 12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

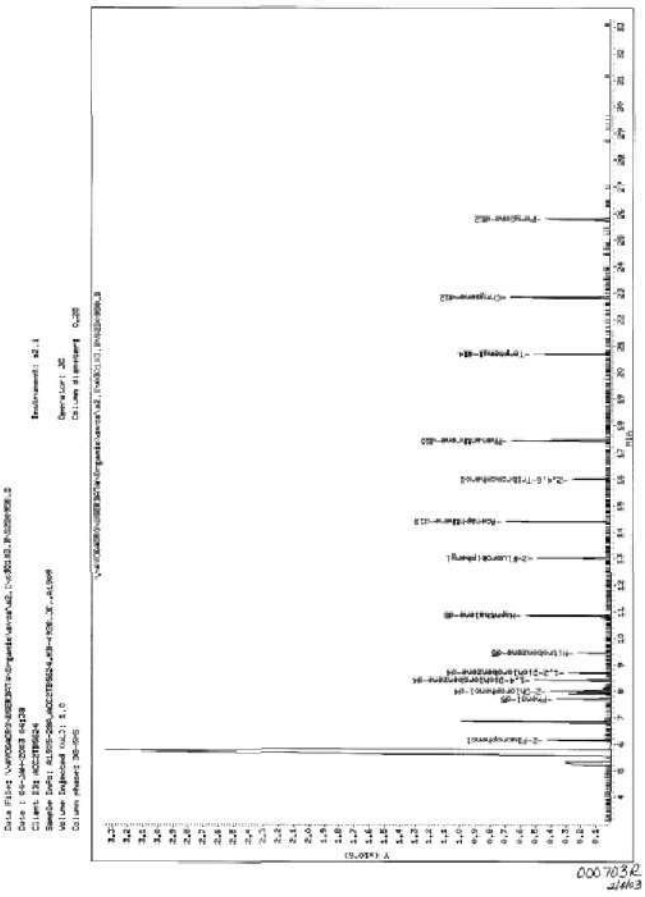
Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.91	780	J
2.	UNKNOWN	8.08	190	J
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM03.0

000702R 3/4/03





Data File: S2D0958.D
Report Date: 29-Jan-2003 09:45

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0958.D
Lab Smp Id: A1905-28A Client Smp ID: AOC2TB24
Inj Date : 04-JAN-2003 04:38
Operator : JC Inst ID: s2.i
Smp Info : A1905-28A,AOC2TB24,MB-4928,JC,,A1905
Misc Info : 0,,,1,,,,30.1,,,24-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\s2_8270C.m
Meth Date : 24-Jan-2003 13:27 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.100	Weight of sample extracted (g)
M	9.000	% Moisture

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
3 2-Fluorophenol	112	6.151	6.156	(0.731)	187149	19.2975	1400
5 Phenol-d6	99	7.716	7.693	(0.917)	219810	18.4911	1400
9 2-Chlorophenol-d4	132	7.997	7.973	(0.950)	193840	19.2983	1400
12 1,3-Dichlorobenzene-d4	152	8.418	8.405	(1.000)	132252	40.0000	
14 1,4-Dichlorobenzene-d4	152	8.699	8.686	(1.033)	74876	26.1665	960
22 Nitrobenzene-d5	82	9.448	9.431	(0.870)	214253	24.4908	890
31 Naphthalene-D8	136	10.858	10.845	(1.000)	403813	40.0000	
41 2-Fluorobiphenyl	172	13.028	13.015	(0.905)	219811	26.1781	960
49 Acenaphthene-d10	164	14.399	14.386	(1.000)	273244	40.0000	
59 2,4,6-Tribromophenol	330	16.087	15.954	(0.518)	64824	39.5105	1400
64 Phenanthrene-d10	188	17.433	17.419	(1.000)	480387	40.0000	
70 Terphenyl-d14	244	20.716	20.698	(0.997)	286767	26.5862	970(B)
74 Chrysene-d12	240	22.840	22.827	(1.000)	464959	40.0000	

0 0704

Data File: S2D0958.D
Report Date: 04-Feb-2003 11:53

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0958.D
Lab Smp Id: A1905-28A Client Smp ID: AOC2TB5624
Inj Date : 04-JAN-2003 04:38
Operator : JC Inst ID: s2.i
Smp Info : A1905-28A,AOC2TB5624,MB-4928,JC,,A1905
Misc Info : 0,,,1,,,,30.1,,,24-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\s2_8270C.m
Meth Date : 24-Jan-2003 13:27 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.100	Weight of sample extracted (g)
M	9.000	% Moisture

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
3 2-Fluorophenol	112	6.151	6.156	(0.731)	187149	19.2975	1400
5 Phenol-d6	99	7.716	7.693	(0.917)	219810	18.4911	1400
9 2-Chlorophenol-d4	132	7.997	7.973	(0.950)	193840	19.2983	1400
12 1,3-Dichlorobenzene-d4	152	8.418	8.405	(1.000)	132252	40.0000	
14 1,4-Dichlorobenzene-d4	152	8.699	8.686	(1.033)	74876	26.1665	960
22 Nitrobenzene-d5	82	9.448	9.431	(0.870)	214253	24.4908	890
31 Naphthalene-D8	136	10.858	10.845	(1.000)	403813	40.0000	
41 2-Fluorobiphenyl	172	13.028	13.015	(0.905)	219811	26.1781	960
49 Acenaphthene-d10	164	14.399	14.386	(1.000)	273244	40.0000	
59 2,4,6-Tribromophenol	330	16.087	15.954	(0.518)	64824	39.5105	1400
64 Phenanthrene-d10	188	17.433	17.419	(1.000)	480387	40.0000	
70 Terphenyl-d14	244	20.716	20.698	(0.997)	286767	26.5862	970(B)
74 Chrysene-d12	240	22.840	22.827	(1.000)	464959	40.0000	

Data File: S2D0958.D
Report Date: 29-Jan-2003 09:45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
* 83 Perylene-d12	264	23.798	23.784	(1.000)	29733	40.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

1/29/03

Data File: S2D0958.D
Report Date: 29-Jan-2003 09:45

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0958.D
Lab Smp Id: A1905-28A Client Smp ID: AOC2TB24
Inj Date : 04-JAN-2003 04:38
Operator : JC Inst ID: s2.i
Smp Info : A1905-28A,AOC2TB24,MB-4928,JC,,A1905
Misc Info : 0,,,1,,,,30.1,,,24-DBC-02,23-DBC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\s2_8270C.m
Meth Date : 24-Jan-2003 13:27 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Ans * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.100	Weight of sample extracted (g)
M	9.000	% Moisture

ISTD	RT	AREA	AMOUNT
* 12 1,4-Dichlorobenzene-d4	8.418	727361	40.000

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CAS #
Unknown					CAS #:		
7.511	386128	21.2344627	780	0		0	12
Unknown					CAS #:		
8.043	95381	5.24531835	190	0		0	12

Data File: S2D0958.D
Report Date: 04-Feb-2003 11:53

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0958.D
Lab Smp Id: A1905-28A Client Smp ID: AOC2TB5624
Inj Date : 04-JAN-2003 04:38
Operator : JC Inst ID: s2.i
Smp Info : A1905-28A,AOC2TB5624,MB-4928,JC,,A1905
Misc Info : 0,,,1,,,,30.1,,,24-DBC-02,23-DBC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\s2_8270C.m
Meth Date : 24-Jan-2003 13:27 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

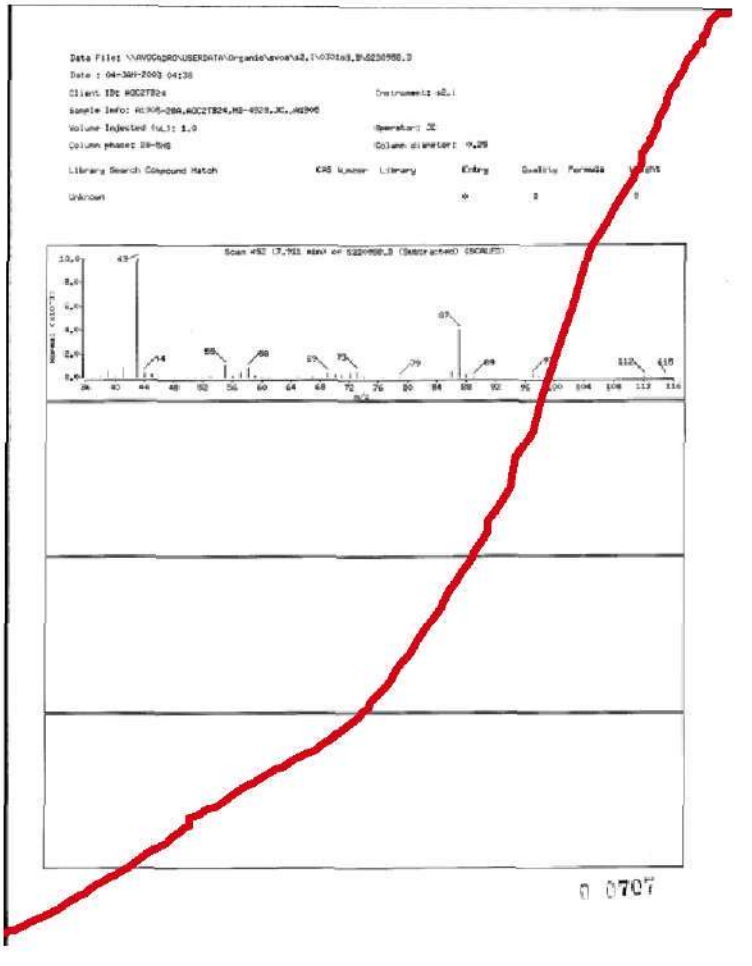
Concentration Formula: Ans * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.100	Weight of sample extracted (g)
M	9.000	% Moisture

ISTD	RT	AREA	AMOUNT
* 12 1,4-Dichlorobenzene-d4	8.418	727361	40.000

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CAS #
Unknown					CAS #:		
7.511	386128	21.2344627	780	0		0	12
Unknown					CAS #:		
8.043	95381	5.24531835	190	0		0	12

000706A
2/4/03



Data File: \\AVOGADRO\USERDATA\Organic\svoa\a2.I\030103,B\S220958.D

Date : 04-JAN-2003 04:38

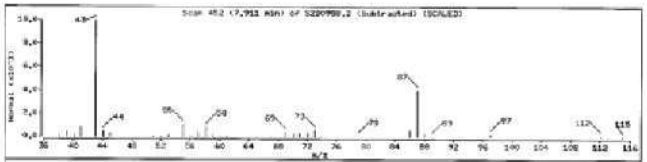
Client ID: AOC2TB624 Instrument: a2.i

Sample Info: A1905-28A,AOC2TB624,MB-4528,JC,,A1905 Operator: JC

Volume Injected (uL): 1.0 Column diameter: 0.25

Column phase: DB-5MS

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	NBS75K.L	6082	83	C6H14O3	134
Ethanol, 2-[2-(2-ethoxyethoxy)ethoxy]-	112-50-5	NBS75K.L	17075	39	C8H18O4	178
2-Propanol, 1-(1-methylethoxy)-	3944-36-3	NBS75K.L	3549	36	C6H14O2	118



0007678
2/4/03

0 0708

Data File: \\AVOGADRO\USERDATA\Organic\svoa\a2.I\030103,B\S220958.D

Date : 04-JAN-2003 04:38

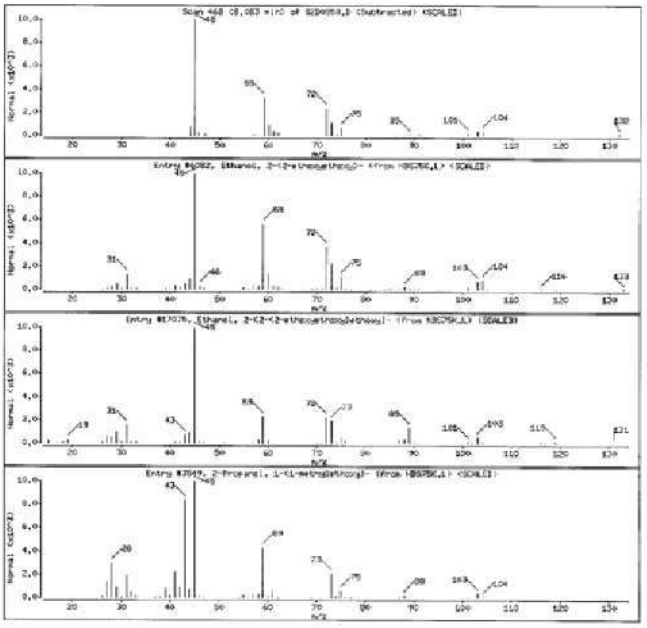
Client ID: AOC2TB624 Instrument: a2.i

Sample Info: A1905-28A,AOC2TB624,MB-4528,JC,,A1905 Operator: JC

Volume Injected (uL): 1.0 Column diameter: 0.25

Column phase: DB-5MS

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	NBS75K.L	6082	83	C6H14O3	134
Ethanol, 2-[2-(2-ethoxyethoxy)ethoxy]-	112-50-5	NBS75K.L	17075	39	C8H18O4	178
2-Propanol, 1-(1-methylethoxy)-	3944-36-3	NBS75K.L	3549	36	C6H14O2	118



0007679
2/4/03

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC3B83

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-02A

Sample wt/vol: 1000 (g/ml) ML Lab File ID: S2B0980

Level: (low/med) LOW Date Received: 12/21/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 12/26/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/06/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1 OLM03.0

0 0709

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3BB3

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-07A
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0980
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

0 0710

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3BB3

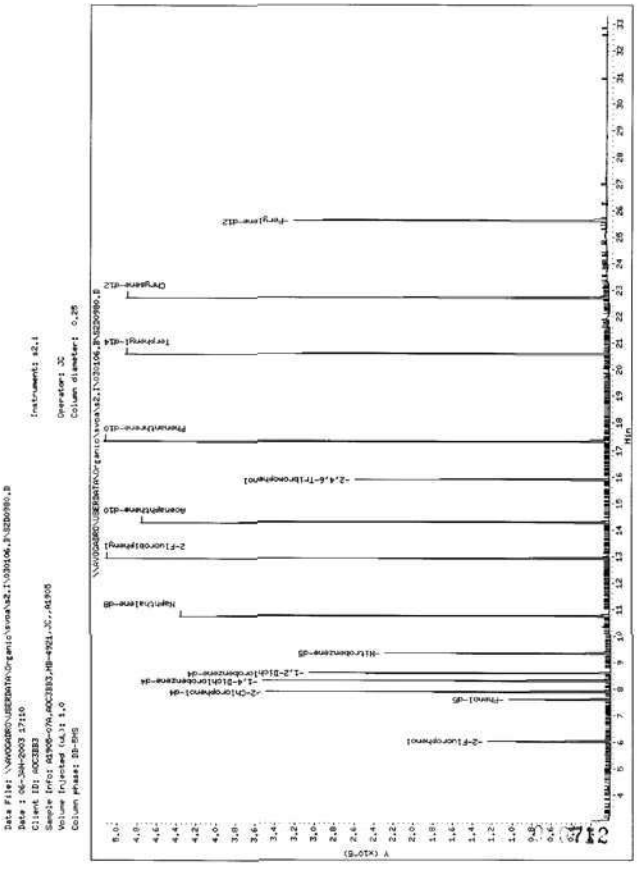
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-07A
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0980
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC OLM03.0

0 0711



Data File: S2D0980.D
Report Date: 24-Jan-2003 13:16

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\S2D0980.D
Lab Smp Id: A1905-07A Client Smp ID: AOC3BB3
Inj Date : 06-JAN-2003 17:10
Operator : JC Inst ID: s2.i
Smp Info : A1905-07A,AOC3BB3,MB-4921,JC,,A1905
Misc Info : 0,,,1,,,,,,,,26-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\s2_8270C.m
Meth Date : 23-Jan-2003 14:49 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D ✓
Als bottle: 82
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub ✓
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$	3 2-Fluorophenol	112	6.031	6.034	(0.725)	31220	25.4845	25
$	5 Phenol-d5	99	7.618	7.625	(0.926)	73577	16.0973	16
$	9 2-Chlorophenol-d4	132	7.959	7.961	(0.949)	180460	48.7004	49
*	12 1,4-Dichlorobenzene-d4	152	8.319	8.322	(1.000)	99477	40.0000	(Q)
$	14 1,2 Dichlorobenzene-d4	152	8.600	8.603	(1.034)	83393	38.9793	39
$	22 Nitrobenzene-d5	82	9.345	9.358	(0.869)	126470	38.1565	38
*	31 Naphthalene-d8	136	10.748	10.762	(1.000)	343489	40.0000	
$	41 2-Fluorobiphenyl	172	12.929	12.932	(0.905)	258452	41.8457	42
*	48 Acenaphthene-d10	164	14.289	14.292	(1.000)	194432	40.0000	
$	60 2,4,6-Tribromophenol	330	15.898	15.900	(0.918)	60412	56.4437	56
*	64 Phenanthrene-d10	188	17.323	17.325	(1.000)	313161	40.0000	
$	72 Terphenyl-d14	244	20.604	20.596	(0.907)	295124	41.8277	41
*	76 Chrysene-d12	240	22.720	22.734	(1.000)	307152	40.0000	
*	83 Perylene-d12	264	25.624	25.627	(1.000)	213421	40.0000	

1/27/-2

0 0713

Data File: S2D0980.D
Report Date: 24-Jan-2003 13:16

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: S2D0980.D
Report Date: 24-Jan-2003 13:16

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\S2D0980.D
Lab Smp Id: A1905-07A Client Smp ID: AOC3BB3
Inj Date : 06-JAN-2003 17:10
Operator : JC Inst ID: s2.i
Smp Info : A1905-07A,AOC3BB3,MB-4921,JC,,A190S
Misc Info : 0,,,1,,,,,,,26-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\s2_8270C.m
Meth Date : 23-Jan-2003 16:49 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 82
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC3BB4

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-08A
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0981
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro 3 Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC3BB4

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-08A
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0981
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

AOC3BB4

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-08A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0981

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/06/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

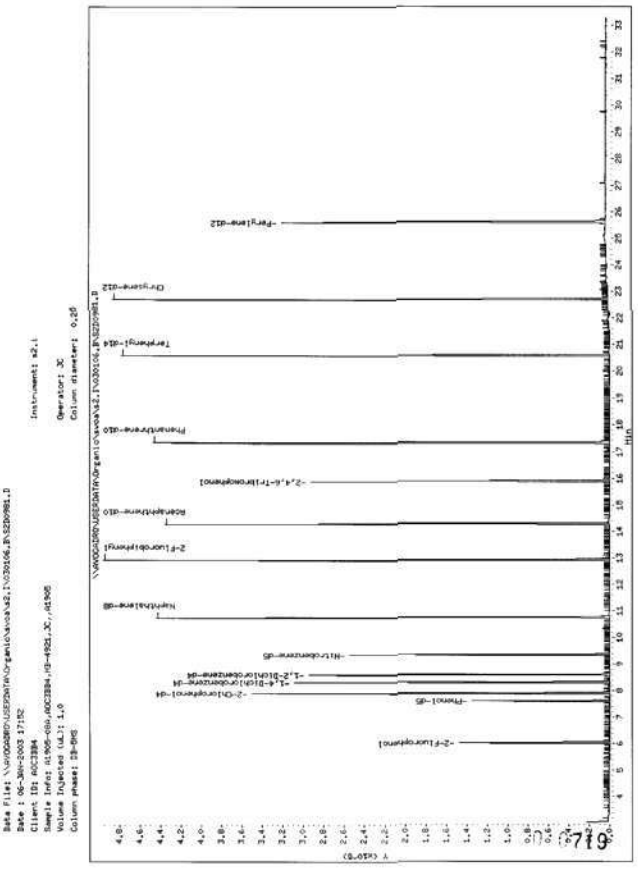
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM03.0



Data File: S2D0981.D
Report Date: 24-Jan-2003 13:16

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\S2D0981.D
Lab Smp Id: A1905-08A Client Smp ID: AOC3BB4
Inj Date : 06-JAN-2003 17:52
Operator : JC Inst ID: s2.i
Smp Info : A1905-08A,AOC3BB4,MB-4921,JC,,A1905
Misc Info : 0,,,1,,,,,,,26-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\s2_8270C.m
Meth Date : 23-Jan-2003 14:49 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 83
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)	
$	3 2-Fluorophenol	112	6.035	6.034	(0.725)	306435	30.9510	31	
$	5 Phenol-d5	99	7.611	7.620	(0.914)	88252	20.0325	20	
$	9 2-Chlorophenol-d4	132	7.902	7.901	(0.949)	189936	53.1223	53	
*	12 1,4-Dichlorobenzene-d4	152	8.323	8.322	(1.000)	95879	40.0000		(Q)
$	14 1,2 Dichlorobenzene-d4	152	8.604	8.603	(1.034)	82913	40.2093	40	
$	22 Nitrobenzene-d5	82	9.349	9.358	(0.869)	130089	40.2930	40	
*	31 Naphthalene-d8	136	10.752	10.762	(1.000)	334566	40.0000		
$	41 2-Fluorobiphenyl	172	12.922	12.932	(0.904)	257416	43.1364	43	
*	48 Acenaphthene-d10	164	14.293	14.292	(1.000)	177345	40.0000		
$	60 2,4,6-Tribromophenol	330	15.691	15.900	(0.917)	43547	60.5549	60	
*	64 Phenanthrene-d10	188	17.327	17.325	(1.000)	307134	40.0000		
$	72 Terphenyl-d14	244	20.598	20.596	(0.906)	374317	38.5752	38	
*	76 Chrysene-d12	240	22.726	22.734	(1.000)	307279	40.0000		
*	83 Perylene-d12	264	25.628	25.627	(1.000)	215311	40.0000		

1/24/03

Data File: S2D0981.D
Report Date: 24-Jan-2003 13:16

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: S2D0981.D
Report Date: 24-Jan-2003 13:16

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\S2D0981.D
Lab Smp Id: A1905-08A Client Smp ID: AOC3BB4
Inj Date : 06-JAN-2003 17:52
Operator : JC Inst ID: s2.i
Smp Info : A1905-08A,AOC3BB4,MB-4921,JC,,A1905
Misc Info : 0,,,1,,,,,,,26-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\s2_8270C.m
Meth Date : 23-Jan-2003 14:49 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 83
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP6

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-01D
Sample wt/vol: 30.2 (g/mL) G Lab File ID: S2D0950
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 0 decanted: (Y/N) N Date Extracted:12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/03/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	660	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	660	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	660	U
83-32-9	Acenaphthene	330	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP6

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-01D
Sample wt/vol: 30.2 (g/mL) G Lab File ID: S2D0950
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 0 decanted: (Y/N) N Date Extracted:12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/03/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	660	U
100-02-7	4-Nitrophenol	660	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	660	U
534-52-1	4,6-Dinitro-2-methylphenol	660	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	660	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	1100	
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

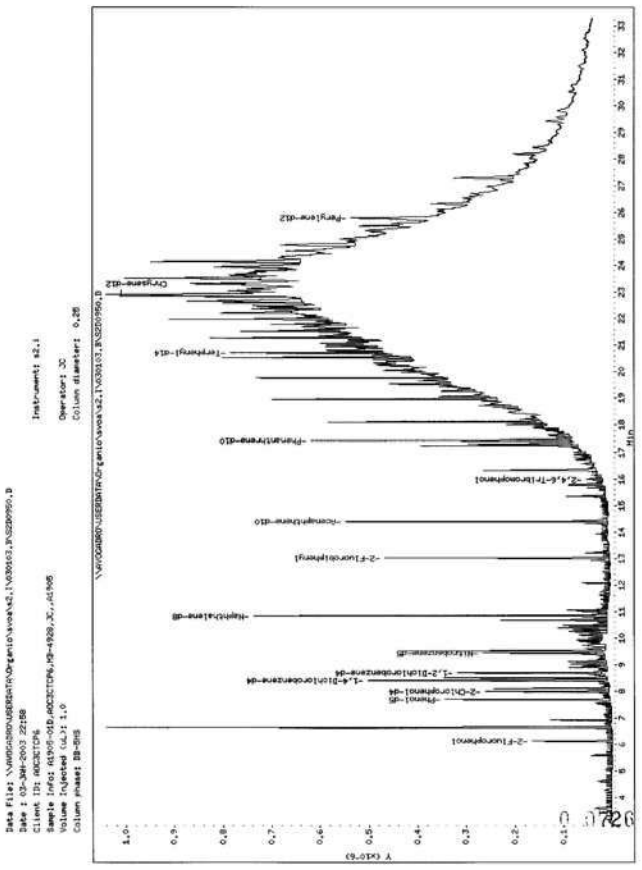
1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3CTCP6

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-01D
Sample wt/vol: 30.2 (g/mL) G Lab File ID: S2D0950
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/03/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 104-76-7	1-HEXANOL, 2-ETHYL-	8.50	840	NJ
2.	UNKNOWN	22.60	1100	J
3.	UNKNOWN	27.30	1000	J
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				



Data File: S2D0950.D
Report Date: 29-Jan-2003 09:44

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0950.D
Lab Smp Id: A1905-01D Client Smp ID: AOC3CTCP6
Inj Date : 03-JAN-2003 22:58
Operator : JC Inst ID: s2.i
Smp Info : A1905-01D,AOC3CTCP6,MB-4928,JC,,A1905
Misc Info : 0,,,2,,,,30.2,,,24-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\s2_8270C.m
Meth Date : 24-Jan-2003 13:27 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.200	Weight of sample extracted (g)
M	0.000	% Moisture

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
$	3 2-Fluorophenol	112	6.118	6.106	(0.727)	106238	23.9288	790(R)
$	5 Phenol-d5	99	7.705	7.693	(0.916)	208380	36.7625	1200
$	9 2-Chlorophenol-d4	132	7.996	7.973	(0.950)	134396	29.2142	970(R)
*	12 1,4-Dichlorobenzene-d4	152	8.417	8.405	(1.000)	123363	40.0000	
$	14 1,2-Dichlorobenzene-d4	152	8.698	8.686	(1.033)	79638	30.0167	990
$	22 Nitrobenzene-d5	82	9.443	9.431	(0.871)	122839	31.0582	1000
*	31 Naphthalene-d8	136	10.846	10.846	(1.000)	409856	40.0000	
$	41 2-Fluorobiphenyl	172	13.027	13.015	(0.905)	217164	32.5538	1100
*	48 Acenaphthene-d10	164	14.398	14.386	(1.000)	216508	40.0000	
$	60 2,4,6-Tribromophenol	330	15.995	15.994	(0.918)	6339	5.67871	190(aR)
*	64 Phenanthrene-d10	188	17.431	17.419	(1.000)	326611	40.0000	
$	72 Terphenyl-d14	244	20.713	20.698	(0.906)	182535	39.5390	1300
*	76 Chrysene-d12	240	22.850	22.827	(1.000)	199049	40.0000	

0727

Data File: S2D0950.D
Report Date: 29-Jan-2003 09:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
78 bis(2-Ethylhexyl)phthalate	149	22.904	22.892	(1.002)	142870	32.6946	1100
* 83 Perylene-d12	264	25.797	25.764	(1.000)	85367	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

1/29/03

0728

Data File: S2D0950.D
Report Date: 29-Jan-2003 09:44

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0950.D
Lab Smp Id: A1905-01D Client Smp ID: AOC3CTCP6
Inj Date : 03-JAN-2003 22:58
Operator : JC Inst ID: s2.i
Smp Info : A1905-01D,AOC3CTCP6,MB-4928,JC,,A1905
Misc Info : 0,,,2,,,,30.2,,,24-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\s2_8270C.m
Meth Date : 24-Jan-2003 13:27 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.200	Weight of sample extracted (g)
M	0.000	% Moisture

ISTD	RT	AREA	AMOUNT
* 12 1,4-Dichlorobenzene-d4	8.417	790266	40.000
* 64 Phenanthrene-d10	17.431	842904	40.000
* 76 Chrysene-d12	22.850	586962	40.000

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CMND #
Straight-Chain Alkane			CAS #:				
8.104	199843	30.2354131	670	0		0	12

0729

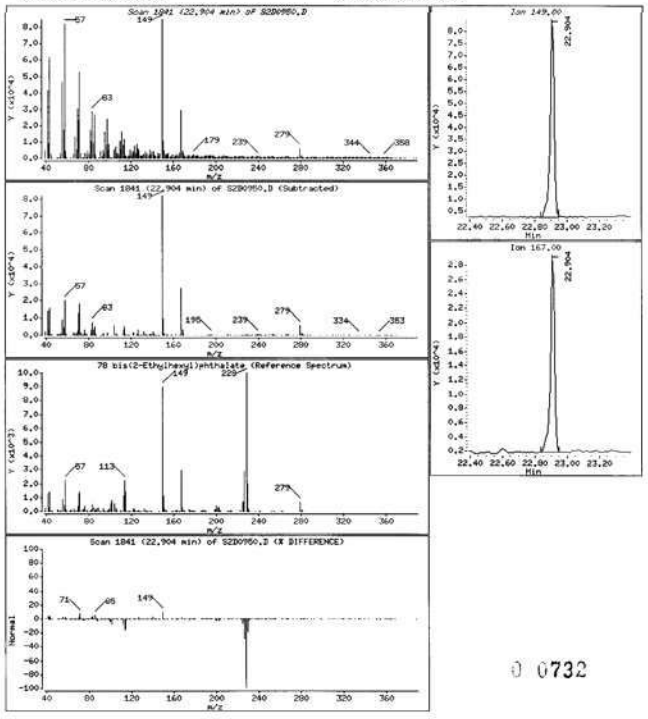
Data File: S2D0950.D
Report Date: 29-Jan-2003 09:44

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUANT QUAL	LIBRARY	LIB ENTRY	CPND #
1-Hexanol, 2-ethyl-			CAS #: 104-76-7				
8.503	499027	25.2566451	840	86	NBS75K.L	5518	12
Straight-Chain Alkane			CAS #:				
9.518	652649	33.0343960	1100	0		0	12
Straight-Chain Alkane			CAS #:				
16.319	518237	24.5529311	810	0		0	64
Straight-Chain Alkane			CAS #:				
17.248	521876	24.7654198	820	0		0	64
Straight-Chain Alkane			CAS #:				
18.122	656017	31.1312795	1000	0		0	64
Straight-Chain Alkane			CAS #:				
18.964	747476	35.4754653	1200	0		0	64
Straight-Chain Alkane			CAS #:				
19.774	666680	31.6372920	1000	0		0	64
Straight-Chain Alkane			CAS #:				
20.540	636902	43.4032868	1400	0		0	76
Straight-Chain Alkane			CAS #:				
21.274	462113	31.4918533	1000	0		0	76
Branched Alkane			CAS #:				
21.522	383983	26.1674861	870	0		0	76
Straight-Chain Alkane			CAS #:				
21.976	538158	36.6741288	1200	0		0	76
Branched Alkane			CAS #:				
22.213	374626	25.5298299	840	0		0	76
Unknown			CAS #:				
22.602	478224	32.5897758	1100	0		0	76
Straight-Chain Alkane			CAS #:				
22.656	791667	53.9501365	1800	0		0	76
Branched Alkane			CAS #:				
23.519	610196	41.5832030	1400	0		0	76

Data File: S2D0950.D
Report Date: 29-Jan-2003 09:44

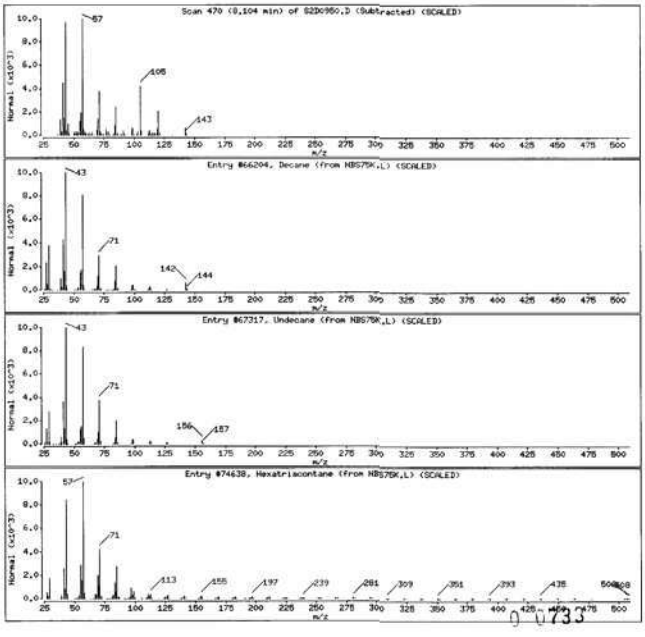
RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUANT QUAL	LIBRARY	LIB ENTRY	CPND #
Branched Alkane			CAS #:				
24.146	1062345	72.3361487	2400	0		0	76
Branched Alkane			CAS #:				
24.772	611461	41.6695459	1400	0		0	76
Unknown			CAS #:				
27.298	452940	30.8667341	1000	0		0	76

Data File: \\AVOGADRO\USERDATA\Organic\avoa\a2,I\030103,B\S2D0950,D
Date : 03-JAN-2003 22:58
Client ID: A0C3CTCP6 Instrument: s2.i
Sample Info: A1905-01D,A0C3CTCP6,MB-4928,JC,,A1905
Volume Injected (uL): 1.0 Operator: JC
Column phase: DB-5MS Column diameter: 0.25
78 bis(2-Ethylhexyl)phthalate Concentration: 1100 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\avoa\a2,I\030103,B\S2D0950,D
Date : 03-JAN-2003 22:58
Client ID: A0C3CTCP6 Instrument: s2.i
Sample Info: A1905-01D,A0C3CTCP6,MB-4928,JC,,A1905
Volume Injected (uL): 1.0 Operator: JC
Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Decane	124-18-5	NBS75K.L	66204	93	C10H22	142
Undecane	1120-21-4	NBS75K.L	67317	49	C11H24	156
Hexatriacontane	630-06-8	NBS75K.L	74638	47	C36H74	507



Data File: \\AVOGADRO\USERDATA\Organic\avoa\a2.I\030103.B\S2D0950.D

Date : 03-JAN-2003 22:58

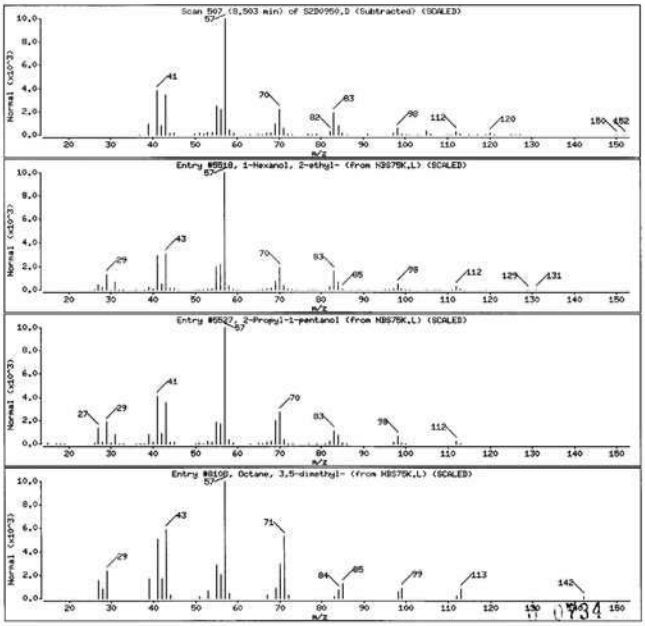
Client ID: A0C3CTCP6 Instrument: s2.i

Sample Info: A1905-01D,A0C3CTCP6,HB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Hexanol, 2-ethyl-	104-76-7	NBS75K.L	5518	86	C8H18O	130
2-Propyl-1-pentanol	58175-57-8	NBS75K.L	5527	50	C8H18O	130
Octane, 3,5-dimethyl-	15869-93-9	NBS75K.L	8108	48	C10H22	142



Data File: \\AVOGADRO\USERDATA\Organic\avoa\a2.I\030103.B\S2D0950.D

Date : 03-JAN-2003 22:58

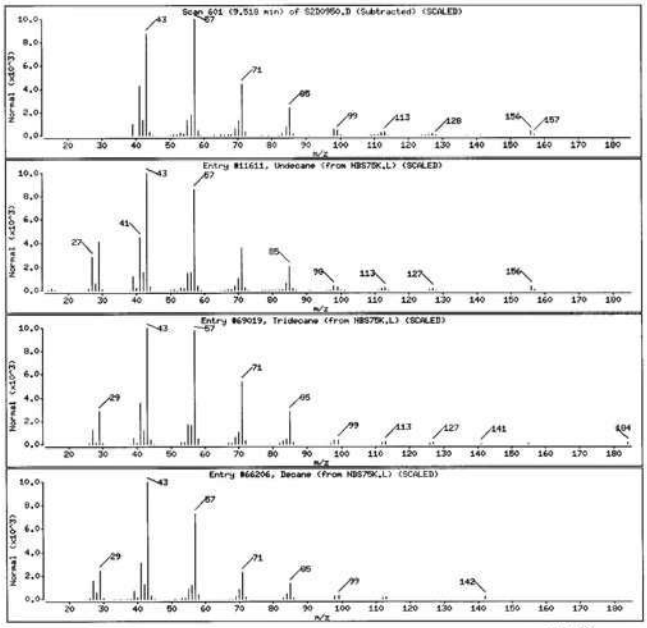
Client ID: A0C3CTCP6 Instrument: s2.i

Sample Info: A1905-01D,A0C3CTCP6,HB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Undecane	1120-21-4	NBS75K.L	11611	97	C11H24	156
Tridecane	629-50-5	NBS75K.L	69019	90	C13H28	184
Decane	124-18-5	NBS75K.L	66206	90	C10H22	142



Data File: \\AVOGADRO\USERDATA\Organic\avoa\a2.I\030103.B\S2D0950.D

Date : 03-JAN-2003 22:58

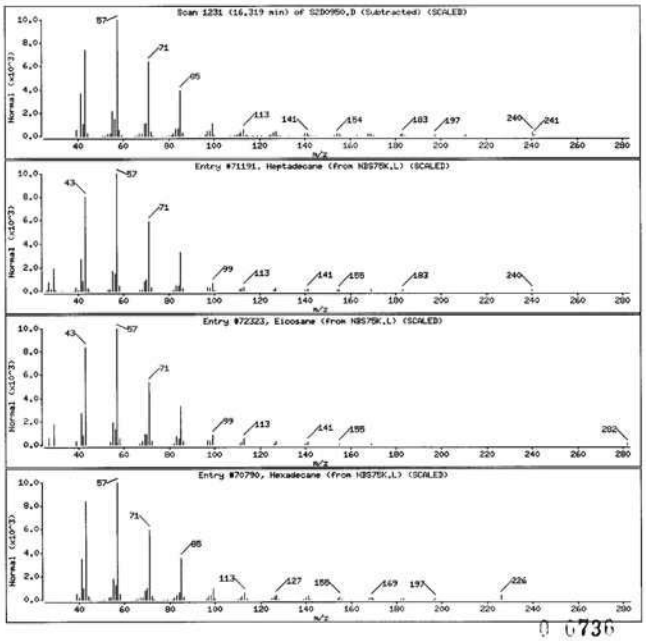
Client ID: A0C3CTCP6 Instrument: s2.i

Sample Info: A1905-01D,A0C3CTCP6,HB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Heptadecane	629-78-7	NBS75K.L	71191	97	C17H36	240
Eicosane	112-95-8	NBS75K.L	72323	91	C20H42	282
Hexadecane	544-76-3	NBS75K.L	70790	91	C16H34	226



Data File: \\AVOGADRO\USERDATA\Organic\avoa\a2.I\030103.B\S2D0950.D

Date : 03-JAN-2003 22:58

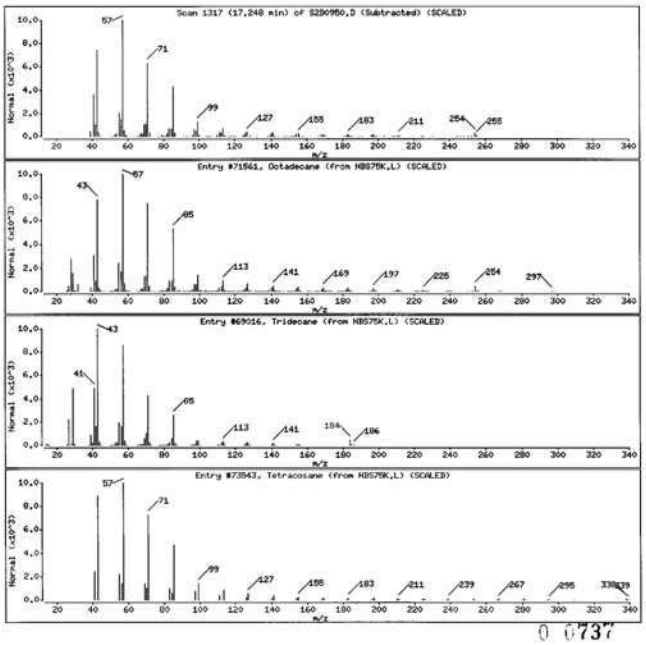
Client ID: A0C3CTCP6 Instrument: s2.i

Sample Info: A1905-01D,A0C3CTCP6,HB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Octadecane	593-45-3	NBS75K.L	71561	97	C18H38	254
Tridecane	629-50-5	NBS75K.L	69016	94	C13H28	184
Tetracosane	646-31-1	NBS75K.L	73543	91	C24H50	338



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0950.D

Date : 03-JAN-2003 22:58

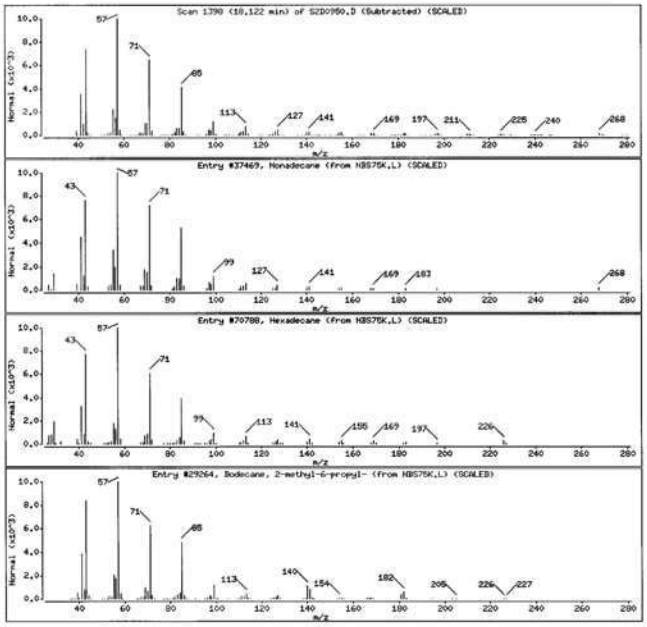
Client ID: A0C3CTCP6 Instrument: s2.i

Sample Info: A1905-01B,A0C3CTCP6,HB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Nonadecane	629-92-5	NBS75K.L	37469	98	C19H40	268
Hexadecane	544-76-3	NBS75K.L	70788	94	C16H34	226
Dodecane, 2-methyl-6-propyl-	55045-08-4	NBS75K.L	29264	93	C16H34	226



0 0738

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0950.D

Date : 03-JAN-2003 22:58

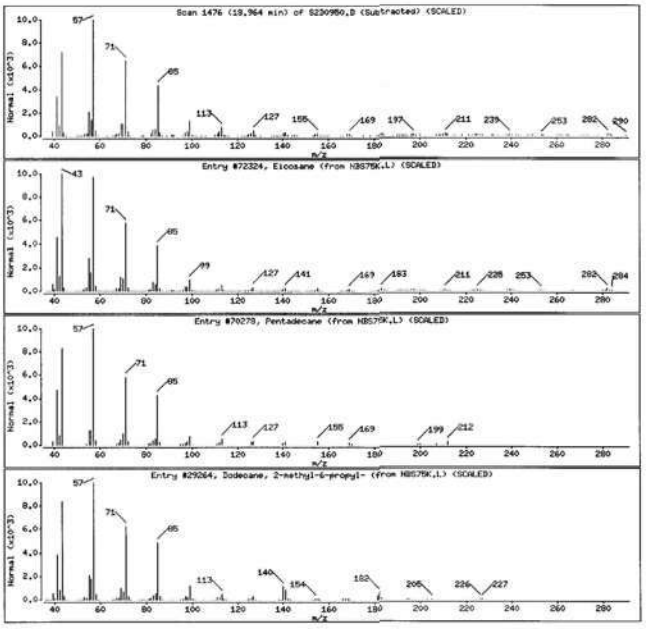
Client ID: A0C3CTCP6 Instrument: s2.i

Sample Info: A1905-01B,A0C3CTCP6,HB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Eicosane	112-95-8	NBS75K.L	72324	96	C20H42	282
Pentadecane	629-62-9	NBS75K.L	70278	95	C15H32	212
Dodecane, 2-methyl-6-propyl-	55045-08-4	NBS75K.L	29264	94	C16H34	226



0 0739

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0950.D

Date : 03-JAN-2003 22:58

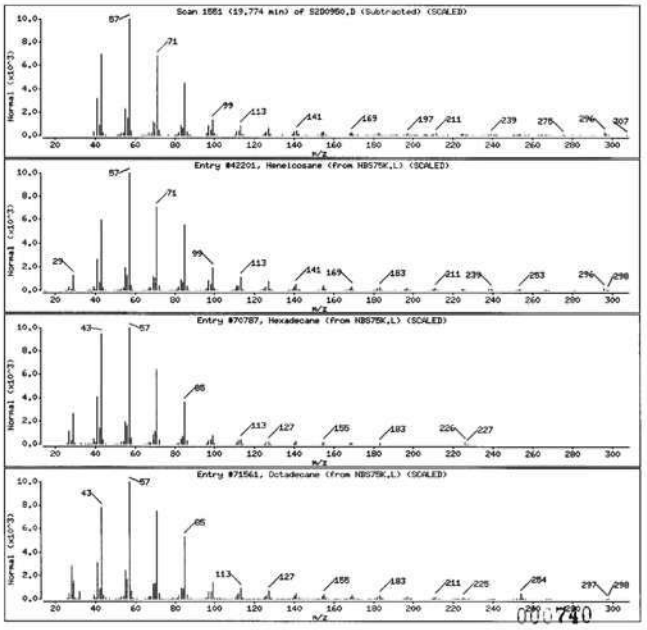
Client ID: A0C3CTCP6 Instrument: s2.i

Sample Info: A1905-01B,A0C3CTCP6,HB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Heneicosane	629-94-7	NBS75K.L	42201	99	C21H44	296
Hexadecane	544-76-3	NBS75K.L	70787	94	C16H34	226
Octadecane	593-45-3	NBS75K.L	71561	91	C18H38	254



000740

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0950.D

Date : 03-JAN-2003 22:58

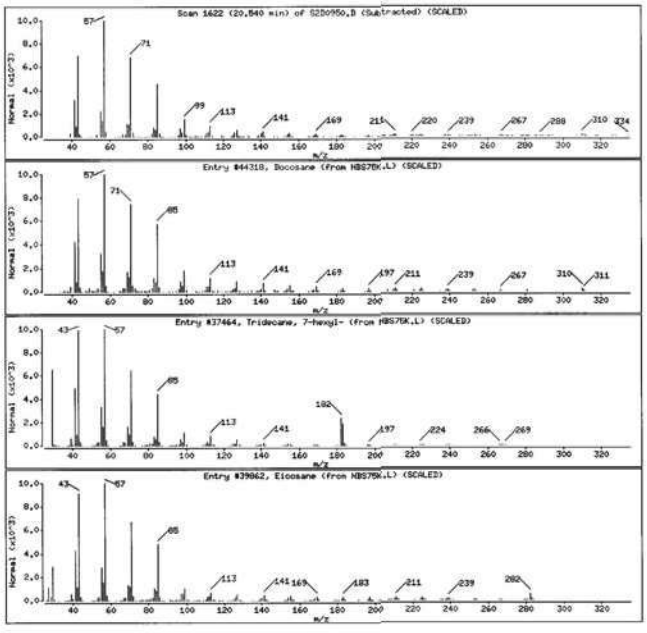
Client ID: A0C3CTCP6 Instrument: s2.i

Sample Info: A1905-01B,A0C3CTCP6,HB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Docosane	629-97-0	NBS75K.L	44318	99	C22H46	310
Tridecane, 7-hexyl-	7225-66-3	NBS75K.L	37464	93	C19H40	268
Eicosane	112-95-8	NBS75K.L	39062	91	C20H42	282



000741

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2,I\030103,B\S2D0950,D

Date : 03-JAN-2003 22:58

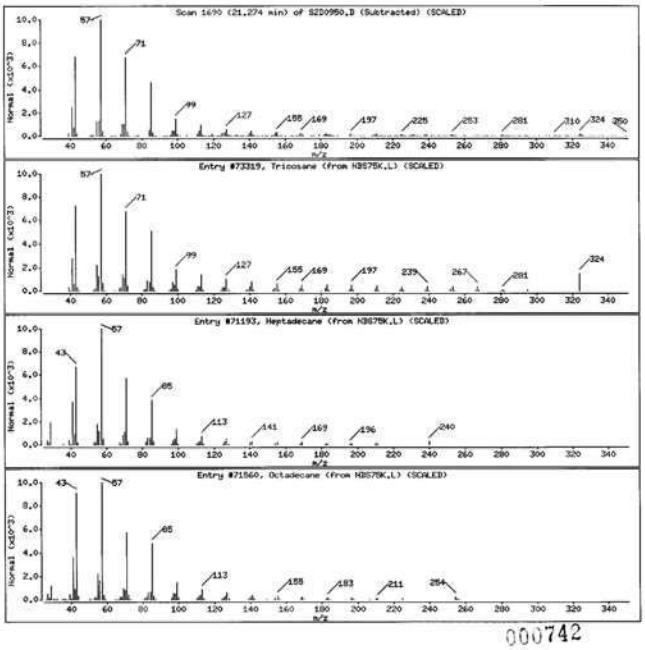
Client ID: AOC3CTCP6 Instrument: s2.i

Sample Info: A1905-01D,AOC3CTCP6,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Tricosane	638-67-5	NBS75K,L	73319	96	C23H48	324
Heptadecane	629-78-7	NBS75K,L	71193	91	C17H36	240
Octadecane	593-45-3	NBS75K,L	71560	91	C18H38	254



000742

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2,I\030103,B\S2D0950,D

Date : 03-JAN-2003 22:58

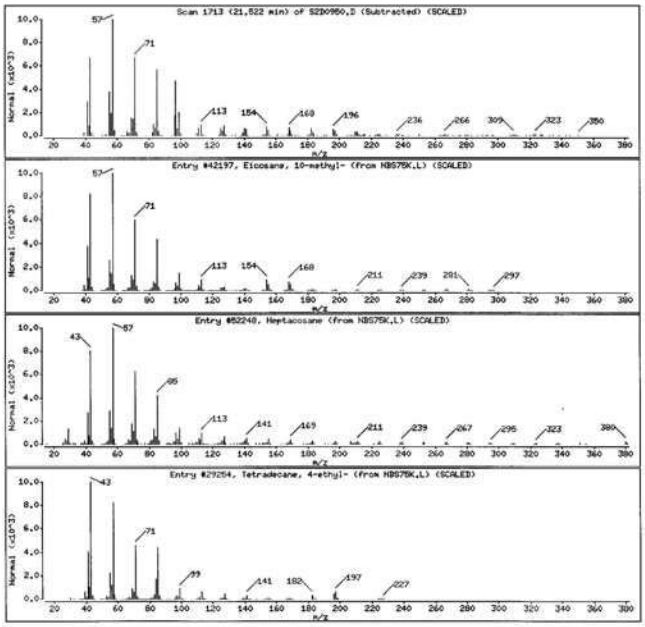
Client ID: AOC3CTCP6 Instrument: s2.i

Sample Info: A1905-01D,AOC3CTCP6,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
Eicosane, 10-methyl-	54833-23-7	NBS75K,L	42197	86	C21H44	296
Heptacosane	593-49-7	NBS75K,L	52248	64	C27H56	380
Tetradecane, 4-ethyl-	55045-14-2	NBS75K,L	29254	64	C16H34	226



000743

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2,I\030103,B\S2D0950,D

Date : 03-JAN-2003 22:58

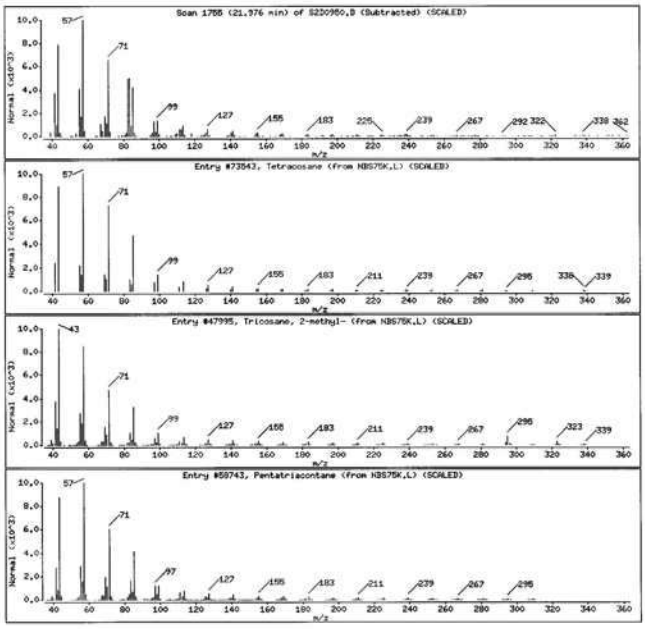
Client ID: AOC3CTCP6 Instrument: s2.i

Sample Info: A1905-01D,AOC3CTCP6,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Tetracosane	646-31-1	NBS75K,L	73543	97	C24H50	338
Tricosane, 2-methyl-	1928-30-9	NBS75K,L	47995	83	C24H50	338
Pentatriacontane	630-07-9	NBS75K,L	59743	64	C35H72	493



000744

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2,I\030103,B\S2D0950,D

Date : 03-JAN-2003 22:58

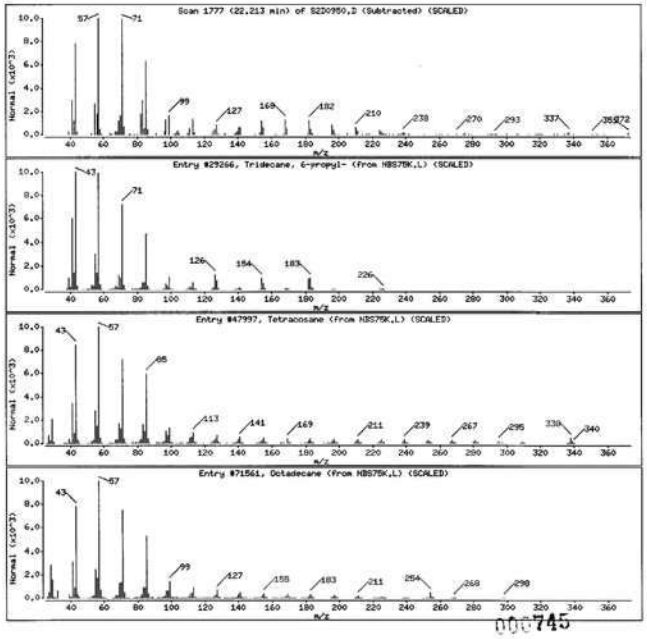
Client ID: AOC3CTCP6 Instrument: s2.i

Sample Info: A1905-01D,AOC3CTCP6,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
Tridecane, 6-propyl-	55045-10-8	NBS75K,L	29266	87	C16H34	226
Tetracosane	646-31-1	NBS75K,L	47997	72	C24H50	338
Octadecane	593-45-3	NBS75K,L	71561	48	C18H38	254



000745

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2,I\030103,B\S2D0950,D

Date : 03-JAN-2003 22:58

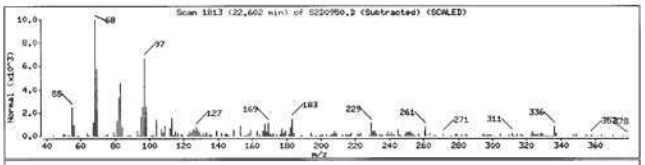
Client ID: AOC3CTCP6 Instrument: s2.i

Sample Info: A1905-01D,AOC3CTCP6,HB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2,I\030103,B\S2D0950,D

Date : 03-JAN-2003 22:58

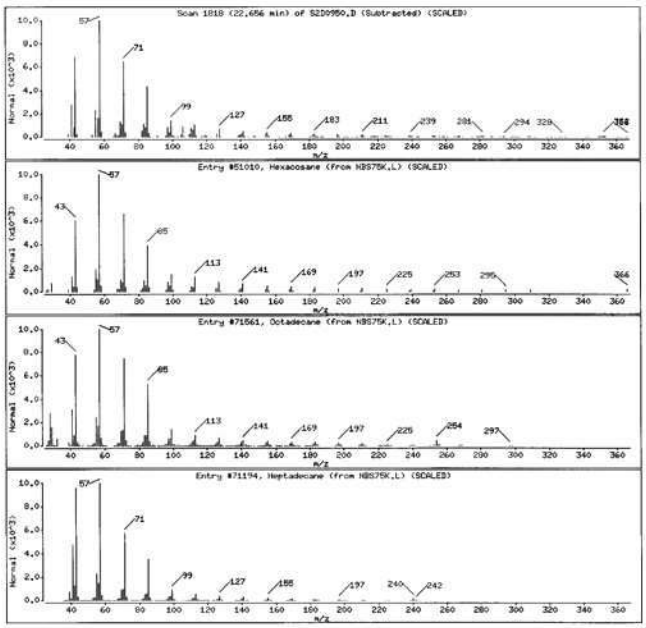
Client ID: AOC3CTCP6 Instrument: s2.i

Sample Info: A1905-01D,AOC3CTCP6,HB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Hexacosane	630-01-3	NBS75K,L	61010	98	C26H54	366
Octadecane	593-45-3	NBS75K,L	71561	96	C18H38	254
Heptadecane	629-78-7	NBS75K,L	71194	95	C17H36	240



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2,I\030103,B\S2D0950,D

Date : 03-JAN-2003 22:58

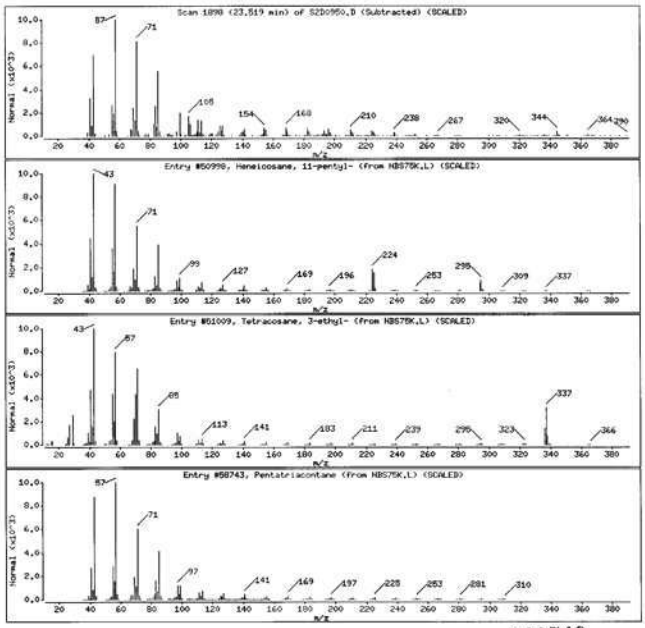
Client ID: AOC3CTCP6 Instrument: s2.i

Sample Info: A1905-01D,AOC3CTCP6,HB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
Heneicosane, 11-pentyl-	14739-72-1	NBS75K,L	50998	91	C26H54	366
Tetracosane, 3-ethyl-	55282-17-2	NBS75K,L	61009	89	C26H54	366
Pentatriacontane	630-07-9	NBS75K,L	58743	87	C35H72	493



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2,I\030103,B\S2D0950,D

Date : 03-JAN-2003 22:58

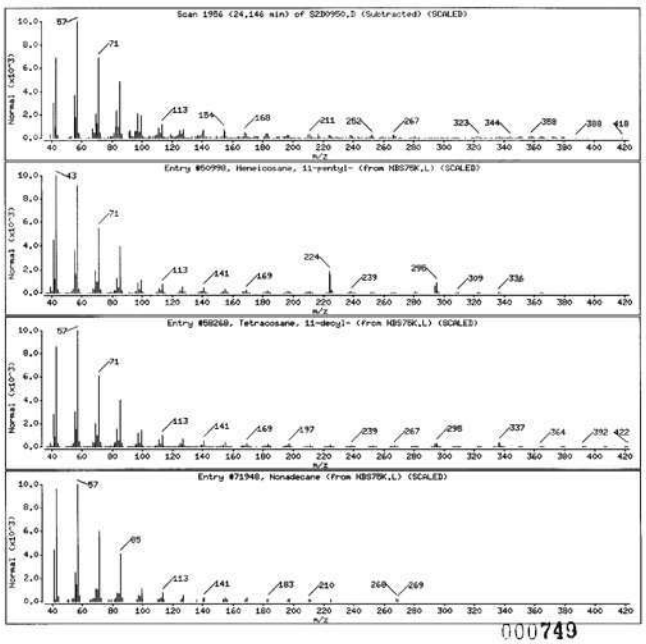
Client ID: AOC3CTCP6 Instrument: s2.i

Sample Info: A1905-01D,AOC3CTCP6,HB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
Heneicosane, 11-pentyl-	14739-72-1	NBS75K,L	50998	90	C26H54	366
Tetracosane, 11-decyl-	55429-04-0	NBS75K,L	58268	90	C34H70	479
Nonadecane	629-92-5	NBS75K,L	71948	89	C19H40	268



Data File: \\WOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0950.D

Date : 03-JAN-2003 22:58

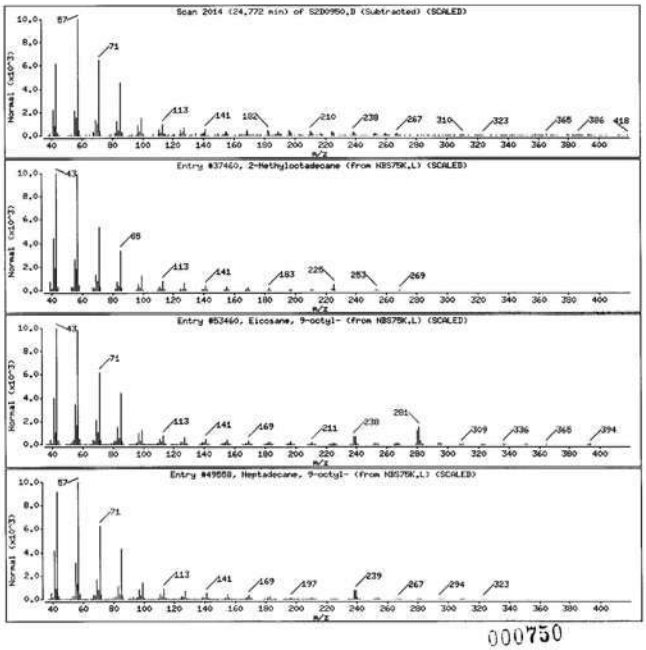
Client ID: AOC3CTCP6 Instrument: s2.i

Sample Info: A1905-01D,AOC3CTCP6,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
2-Methyloctadecane	0-00-0	NBS75K.L	37440	93	C19H40	268
Eicosane, 9-octyl-	13475-77-9	NBS75K.L	53460	91	C28H58	394
Heptadecane, 9-octyl-	7225-64-1	NBS75K.L	49668	87	C25H52	352



000750

Data File: \\WOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0950.D

Date : 03-JAN-2003 22:58

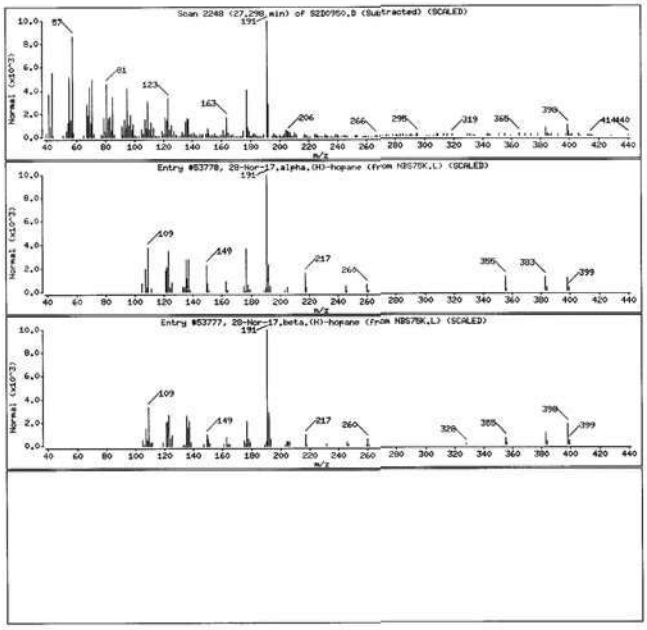
Client ID: AOC3CTCP6 Instrument: s2.i

Sample Info: A1905-01D,AOC3CTCP6,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
28-Nor-17.alpha.(H)-hopane	53584-60-4	NBS75K.L	53778	70	C29H50	398
28-Nor-17.beta.(H)-hopane	36720-72-0	NBS75K.L	53777	46	C29H50	398



000751

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC3CTCP6RE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-01DRE

Sample wt/vol: 30.8 (g/mL) G Lab File ID: S2D1271

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/20/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	320	U
111-44-4	bis(2-Chloroethyl)Ether	320	U
95-57-8	2-Chlorophenol	320	U
541-73-1	1,3-Dichlorobenzene	320	U
106-46-7	1,4-Dichlorobenzene	320	U
95-50-1	1,2-Dichlorobenzene	320	U
95-48-7	2-Methylphenol	320	U
108-60-1	2,2'-oxybis(1-Chloropropane)	320	U
106-44-5	4-Methylphenol	320	U
621-64-7	N-Nitroso-di-n-propylamine	320	U
67-72-1	Hexachloroethane	320	U
98-95-3	Nitrobenzene	320	U
78-59-1	Isophorone	320	U
88-75-5	2-Nitrophenol	320	U
105-67-9	2,4-Dimethylphenol	320	U
120-83-2	2,4-Dichlorophenol	320	U
120-82-1	1,2,4-Trichlorobenzene	320	U
91-20-3	Naphthalene	320	U
106-47-8	4-Chloroaniline	320	U
111-91-1	bis(2-Chloroethoxy)methane	320	U
87-68-3	Hexachlorobutadiene	320	U
59-50-7	4-Chloro-3-Methylphenol	320	U
91-57-6	2-Methylnaphthalene	320	U
77-47-4	Hexachlorocyclopentadiene	320	U
88-06-2	2,4,6-Trichlorophenol	320	U
95-95-4	2,4,5-Trichlorophenol	650	U
91-58-7	2-Chloronaphthalene	320	U
88-74-4	2-Nitroaniline	650	U
131-11-3	Dimethylphthalate	320	U
208-96-8	Acenaphthylene	320	U
606-20-2	2,6-Dinitrotoluene	320	U
99-09-2	3-Nitroaniline	650	U
83-32-9	Acenaphthene	320	U

FORM I SV-1 OLM03.0

000752

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC3CTCP6RE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-01DRE

Sample wt/vol: 30.8 (g/mL) G Lab File ID: S2D1271

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/20/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	650	U
100-02-7	4-Nitrophenol	650	U
132-64-9	Dibenzofuran	320	U
121-14-2	2,4-Dinitrotoluene	320	U
84-66-2	Diethylphthalate	320	U
7005-72-3	4-Chlorophenyl-phenylether	320	U
86-73-7	Fluorene	320	U
100-01-6	4-Nitroaniline	650	U
534-52-1	4,6-Dinitro-2-methylphenol	650	U
86-30-6	N-Nitrosodiphenylamine (1)	320	U
101-55-3	4-Bromophenyl-phenylether	320	U
118-74-1	Hexachlorobenzene	320	U
87-86-5	Pentachlorophenol	650	U
85-01-8	Phenanthrene	320	U
120-12-7	Anthracene	320	U
86-74-8	Carbazole	320	U
84-74-2	Di-n-butylphthalate	320	U
206-44-0	Fluoranthene	320	U
129-00-0	Pyrene	320	U
85-68-7	Butylbenzylphthalate	320	U
91-94-1	3,3'-Dichlorobenzidine	320	U
56-55-3	Benzo(a)anthracene	320	U
218-01-9	Chrysene	320	U
117-81-7	bis(2-Ethylhexyl)phthalate	1500	
117-84-0	Di-n-octylphthalate	320	U
205-99-2	Benzo(b)fluoranthene	320	U
207-08-9	Benzo(k)fluoranthene	320	U
50-32-8	Benzo(a)pyrene	320	U
193-39-5	Indeno(1,2,3-cd)pyrene	320	U
53-70-3	Dibenzo(a,h)anthracene	320	U
191-24-2	Benzo(g,h,i)perylene	320	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

000753

1F

EPA SAMPLE NO.

AOC3CTCP6RE

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-01DRE

Sample wt/vol: 30.8 (g/mL) G Lab File ID: S2D1271

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted:01/20/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

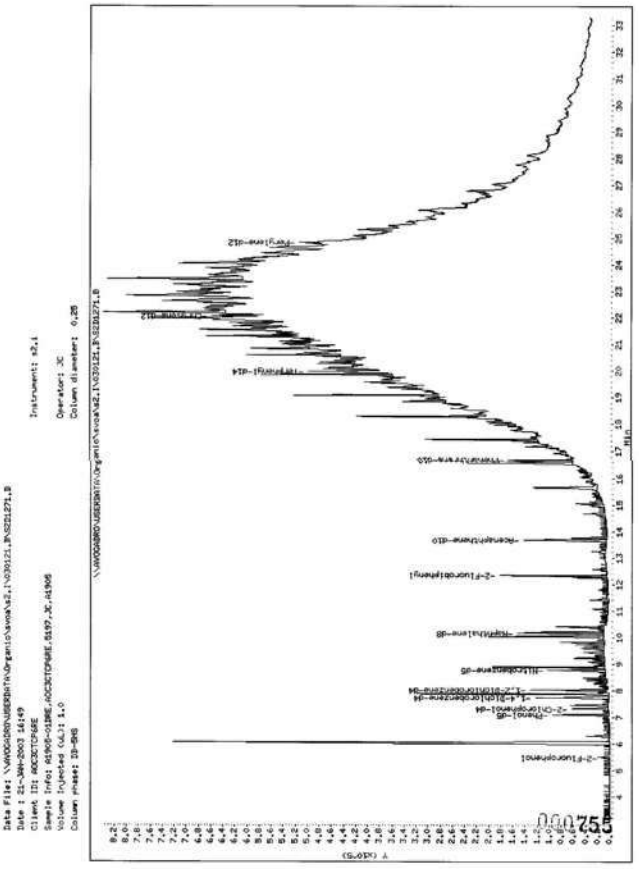
Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 872-05-9	1-DECENE	9.82	580	NJ
2. 112-34-5	ETHANOL, 2-(2-BUTOXYETHOXY)-	10.04	1600	NJ
3. 124-16-3	1-BUTOXYETHOXY-2-PROPANOL	10.40	560	NJ
4.	UNKNOWN	13.72	460	J
5.	UNKNOWN	13.76	450	J
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM03.0

000754



000755

Data File: S2D1271.D
Report Date: 29-Jan-2003 10:32

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1271.D
Lab Smp Id: A1905-01DRE Client Smp ID: AOC3CTCP6RE
Inj Date : 21-JAN-2003 16:49
Operator : JC Inst ID: s2.i
Smp Info : A1905-01DRE,AOC3CTCP6RE,5197,JC,A1905
Misc Info : 0,,,2,,,,30.8,,,20-JAN-03,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\s2_8270C.m
Meth Date : 27-Jan-2003 11:54 mtl Quant Type: ISTD
Cal Date : 18-JAN-2003 12:56 Cal File: S2D1202.D
Als bottle: 37
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.800	Weight of sample extracted (g)
M	0.000	% Moisture

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)	
$	3 2-Fluorophenol	112	5.502	5.506	(0.710)	21133	17.7356	580(RM)	MS 1/29/03
$	5 Phenol-d5	99	7.110	7.104	(0.918)	72397	49.8823	1600	
$	9 2-Chlorophenol-d4	132	7.347	7.341	(0.948)	33902	27.4368	890(E)	
*	12 1,4-Dichlorobenzene-d4	152	7.747	7.751	(1.000)	37256	40.0000	(Q)	
$	14 1,2-Dichlorobenzene-d4	152	8.027	8.021	(1.036)	32675	43.0896	1400	
$	22 Nitrobenzene-d5	82	8.772	8.777	(0.863)	49118	44.6521	1400	
*	31 Naphthalene-d8	136	10.165	10.159	(1.000)	122479	40.0000		
$	41 2-Fluorobiphenyl	172	12.335	12.329	(0.902)	102668	46.5723	1500	
*	48 Acenaphthene-d10	164	13.673	13.667	(1.000)	64722	40.0000		
*	64 Phenanthrene-d10	188	16.685	16.679	(1.000)	99433	40.0000		
$	72 Terphenyl-d14	244	19.978	19.950	(0.906)	75978	62.7968	1600(H)	
*	76 Chrysene-d12	240	22.083	22.055	(1.000)	72805	40.0000	(M)	MS 1/29/03
	78 bis(2-Ethylhexyl)phthalate	149	22.212	22.174	(1.006)	69329	47.3094	1500	

000756

Data File: S2D1271.D
Report Date: 29-Jan-2003 10:32

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)	
* 83 Perylene-d12	264	24.825	24.764	(1.000)	34671	40.0000	(M)	MS 1/29/03

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

1/29/03

000757

Data File: S2D1271.D
Report Date: 29-Jan-2003 10:32

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1271.D
Lab Smp Id: A1905-01DRE Client Smp ID: AOC3CTCP6RE
Inj Date : 21-JAN-2003 16:49
Operator : JC Inst ID: s2.i
Smp Info : A1905-01DRE,AOC3CTCP6RE,5197,JC,A1905
Misc Info : 0,,,2,,,,30.8,,,20-JAN-03,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\s2_8270C.m
Meth Date : 27-Jan-2003 11:54 mtl Quant Type: ISTD
Cal Date : 18-JAN-2003 12:56 Cal File: S2D1202.D
Als bottle: 37
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.800	Weight of sample extracted (g)
M	0.000	% Moisture

	ISTD	RT	AREA	AMOUNT
* 12	1,4-Dichlorobenzene-d4	7.747	279998	40.000
* 31	Naphthalene-d8	10.165	294823	40.000
* 48	Acenaphthene-d10	13.673	340211	40.000
* 64	Phenanthrene-d10	16.685	211625	40.000

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #

Data File: S2D1271.D
Report Date: 29-Jan-2003 10:32

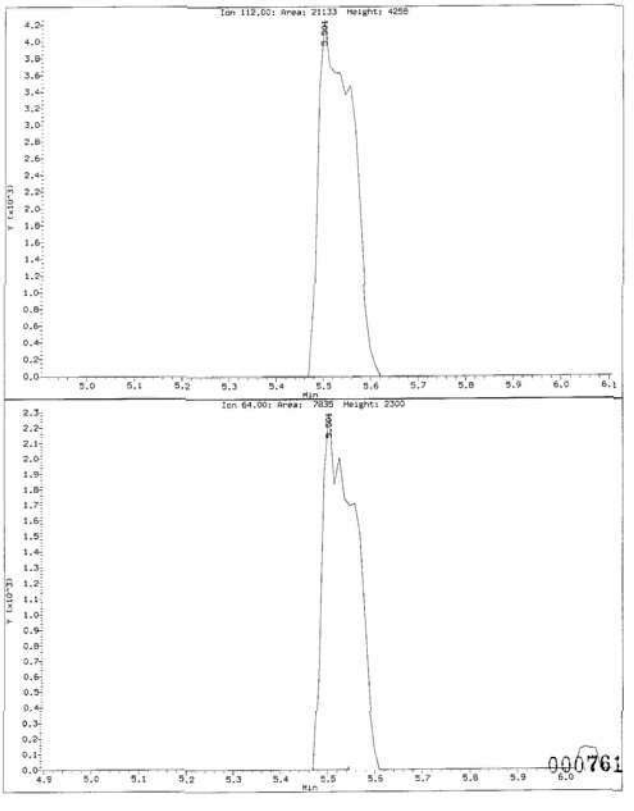
RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Straight-chain Alkane					CAS #:		
7.446	143460	20.5230037	670	0		0	13
Straight-chain Alkane					CAS #:		
8.891	348103	49.7579268	1600	0		0	32
1-Decene					CAS #: 872-05-9		
9.820	132221	17.9390346	580	86	NBS75K.L	66064	31
Ethanol, 2-(2-butoxyethoxy)					CAS #: 112-34-5		
10.035	364669	49.4763299	1600	90	NBS75K.L	67654	31
Straight-chain Alkane					CAS #:		
10.197	233754	31.3858356	1000	0		0	31
1-Butoxyethoxy-2-propanol					CAS #: 124-16-3		
10.402	127633	17.3164238	560	99	NBS75K.L	16652	31
Unknown					CAS #:		
13.717	120540	14.1723813	460	0		0	48
Unknown					CAS #:		
13.760	119008	13.9922577	450	0		0	48
Straight-chain Alkane					CAS #:		
15.649	362030	48.4285883	2300	0		0	64
Straight-chain Alkane					CAS #:		
16.566	324351	59.4166096	1900	0		0	64
Straight-chain Alkane					CAS #:		
17.452	374338	70.7549676	2100	0		0	64
Straight-chain Alkane					CAS #:		
18.294	326514	61.7155818	2000	0		0	64
Branched Alkane					CAS #:		
18.866	128514	24.3664973	790	0		0	64
Straight-chain Alkane					CAS #:		
19.093	346151	65.4272416	2100	0		0	64
Straight-chain Alkane					CAS #:		
19.659	350609	66.2698641	2200	0		0	64

Data File: S2D1271.D
Report Date: 29-Jan-2003 10:32

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Straight-chain Alkane					CAS #:		
20.593	248390	46.9498645	1500	0		0	64
Straight-chain Alkane					CAS #:		
20.841	194806	36.8203805	1200	0		0	64
Branched Alkane					CAS #:		
23.454	716732	135.472085	4400	0		0	64

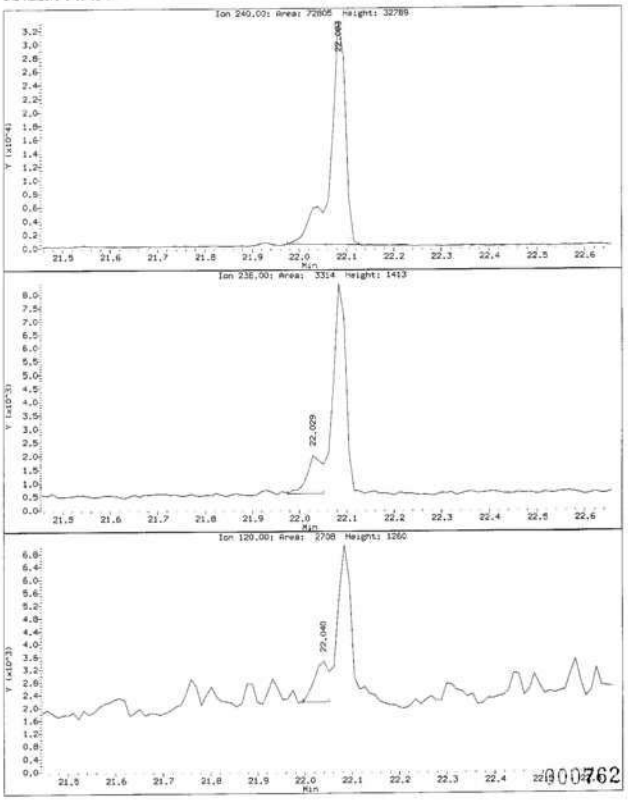
Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1271.D
Injection Date: 21-JAN-2003 16:49
Instrument: s2.i
Client Sample ID: AOC3CTCP6

Compound: 2-Fluorophenol
CAS Number: 367-12-4



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.i\030121.B\S2D1271.D
Injection Date: 21-JAN-2003 16:49
Instrument: s2.i
Client Sample ID: AOC3CTCP6

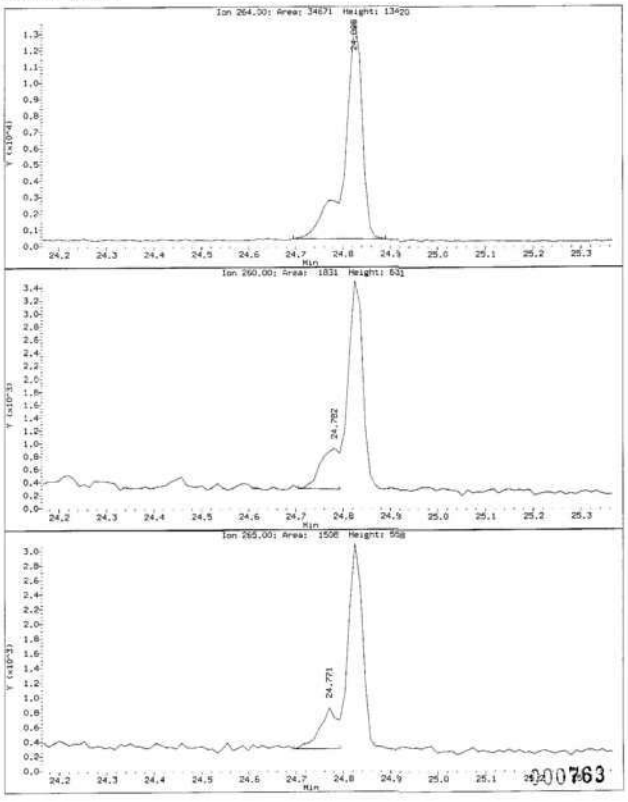
Compound: Chrysene-d12
CAS Number: 1719-03-5



000762

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.i\030121.B\S2D1271.D
Injection Date: 21-JAN-2003 16:49
Instrument: s2.i
Client Sample ID: AOC3CTCP6

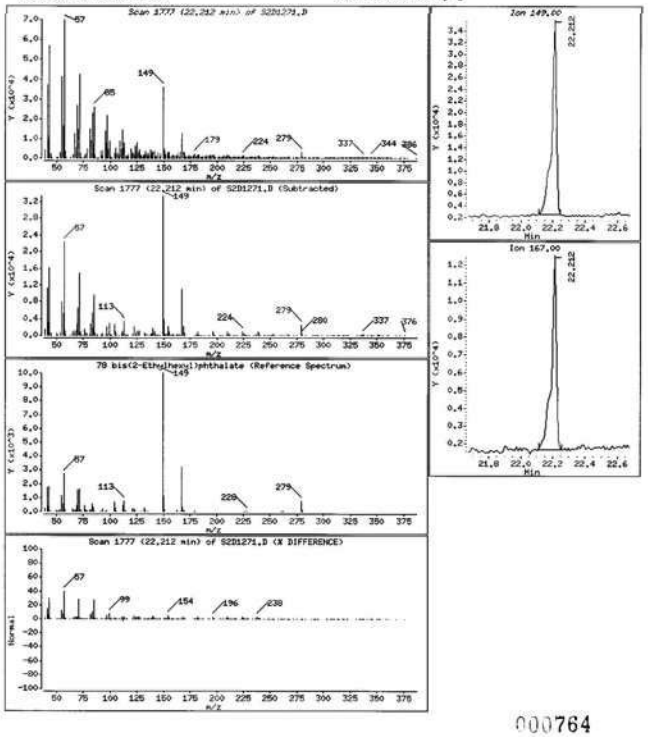
Compound: Perylene-d12
CAS Number: 1520-96-3



000763

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.i\030121.B\S2D1271.D
Date : 21-JAN-2003 16:49
Client ID: AOC3CTCP6RE
Instrument: s2.i
Sample Info: A1906-01DRE,AOC3CTCP6RE,5197,JC,A1906
Volume Injected (uL): 1.0
Operator: JC
Column phase: DB-5MS
Column diameter: 0.25

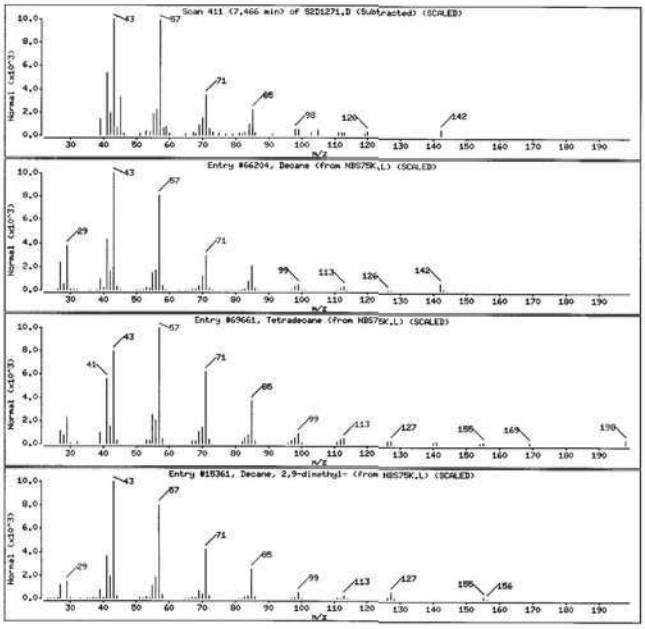
79 bis(2-Ethylhexyl)phthalate
Concentration: 1500 ug/Kg



000764

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.i\030121.B\S2D1271.D
Date : 21-JAN-2003 16:49
Client ID: AOC3CTCP6RE
Instrument: s2.i
Sample Info: A1906-01DRE,AOC3CTCP6RE,5197,JC,A1906
Volume Injected (uL): 1.0
Operator: JC
Column phase: DB-5MS
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Decane	124-18-5	NBS75K.L	66204	93	C10H22	142
Tetradecane	629-59-4	NBS75K.L	69661	59	C14H30	198
Decane, 2,9-dimethyl-	1002-17-1	NBS75K.L	15361	53	C12H26	170



000765

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030121.B\S2D1271.D

Date : 21-JAN-2003 16:49

Client ID: AOC3CTCP&RE

Instrument: s2.i

Sample Info: A1905-01DRE,AOC3CTCP&RE,5197,JC,A1905

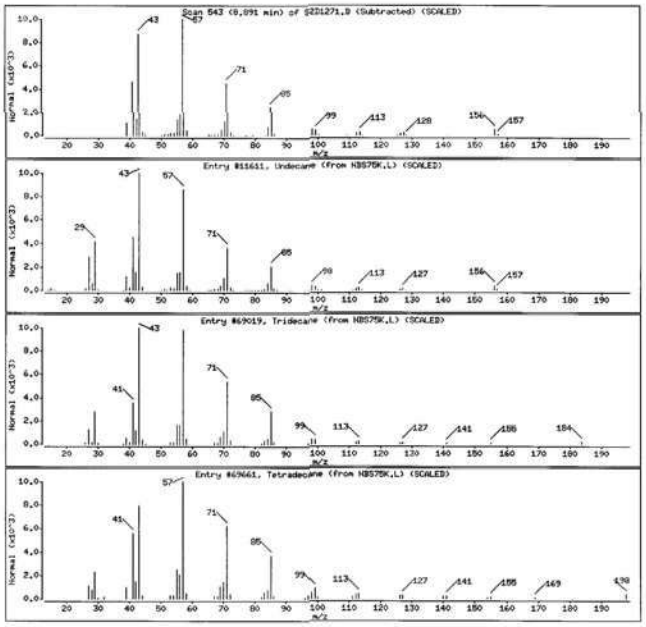
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Undecane	1120-21-4	NBS75K.L	11611	97	C11H24	156
Tridecane	629-50-5	NBS75K.L	69019	90	C13H28	184
Tetradecane	629-59-4	NBS75K.L	69661	90	C14H30	198



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030121.B\S2D1271.D

Date : 21-JAN-2003 16:49

Client ID: AOC3CTCP&RE

Instrument: s2.i

Sample Info: A1905-01DRE,AOC3CTCP&RE,5197,JC,A1905

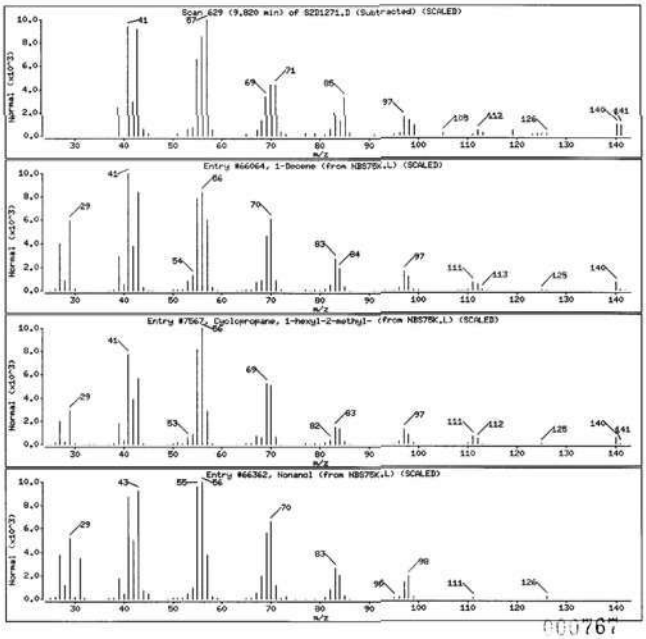
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Decene	872-05-9	NBS75K.L	66064	86	C10H20	140
Cyclopropane, 1-hexyl-2-methyl-	62238-09-9	NBS75K.L	7567	60	C10H20	140
Nonanol	28473-21-4	NBS75K.L	66362	58	C9H20O	144



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030121.B\S2D1271.D

Date : 21-JAN-2003 16:49

Client ID: AOC3CTCP&RE

Instrument: s2.i

Sample Info: A1905-01DRE,AOC3CTCP&RE,5197,JC,A1905

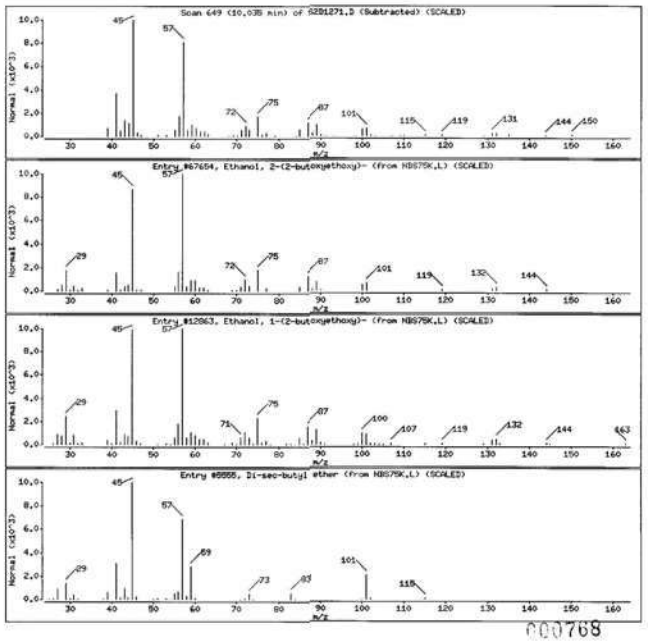
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethanol, 2-(2-butoxyethoxy)-	112-34-5	NBS75K.L	67654	90	C8H18O3	162
Ethanol, 1-(2-butoxyethoxy)-	54446-78-5	NBS75K.L	12863	59	C8H18O3	162
Di-sec-butyl ether	6863-58-7	NBS75K.L	5668	47	C8H18O	130



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030121.B\S2D1271.D

Date : 21-JAN-2003 16:49

Client ID: AOC3CTCP&RE

Instrument: s2.i

Sample Info: A1905-01DRE,AOC3CTCP&RE,5197,JC,A1905

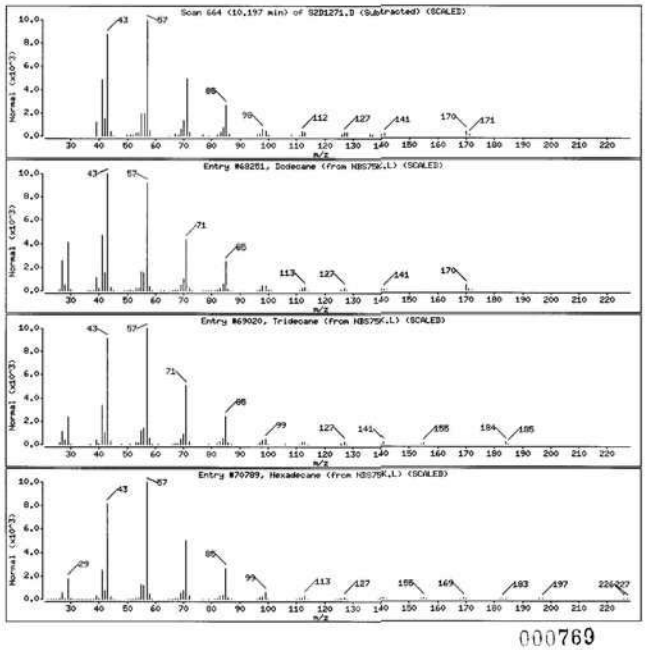
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Dodecane	112-40-3	NBS75K.L	68281	97	C12H26	170
Tridecane	629-50-5	NBS75K.L	69020	90	C13H28	184
Hexadecane	544-76-3	NBS75K.L	70789	80	C16H34	226



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1271.D

Date : 21-JAN-2003 16:49

Client ID: AOC3CTCP6RE

Instrument: s2.i

Sample Info: A1905-01DRE,AOC3CTCP6RE,5197,JC,A1905

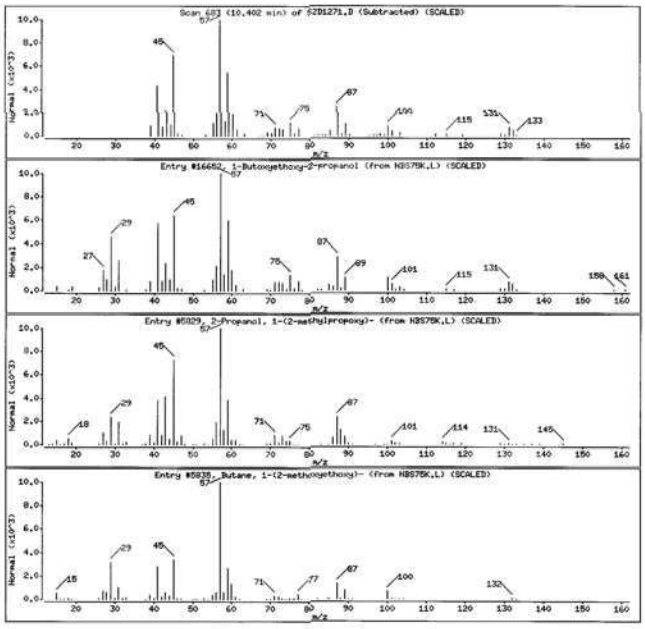
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Height
1-Butoxyethoxy-2-propanol	124-16-3	NBS75K.L	16652	90	C9H2003	176
2-Propanol, 1-(2-methylpropoxy)-	23436-19-3	NBS75K.L	6829	89	C7H1602	132
Butane, 1-(2-methoxyethoxy)-	13343-98-1	NBS75K.L	6835	86	C7H1602	132



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1271.D

Date : 21-JAN-2003 16:49

Client ID: AOC3CTCP6RE

Instrument: s2.i

Sample Info: A1905-01DRE,AOC3CTCP6RE,5197,JC,A1905

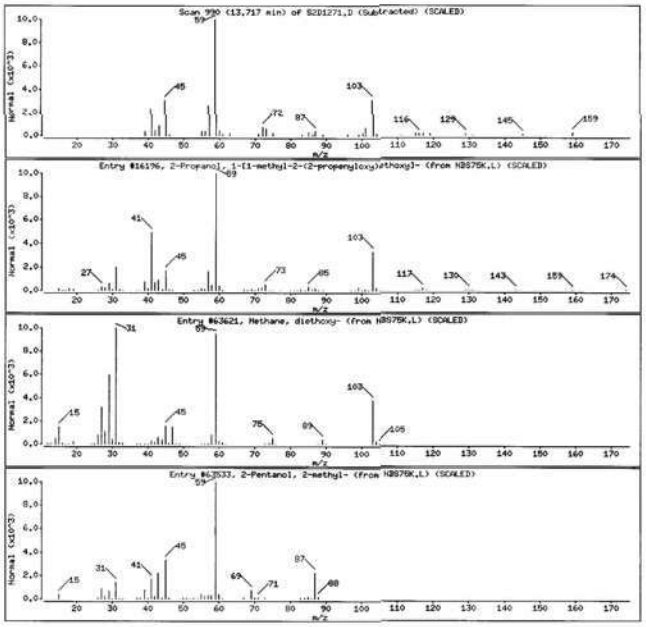
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Height
Unknown						
2-Propanol, 1-(1-methyl-2-(2-propenyloxy	55956-25-7	NBS75K.L	16196	64	C9H1803	174
Methane, diethoxy-	462-95-3	NBS75K.L	63621	59	C5H1202	104
2-Pentanol, 2-methyl-	590-36-3	NBS75K.L	63533	59	C6H140	102



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1271.D

Date : 21-JAN-2003 16:49

Client ID: AOC3CTCP6RE

Instrument: s2.i

Sample Info: A1905-01DRE,AOC3CTCP6RE,5197,JC,A1905

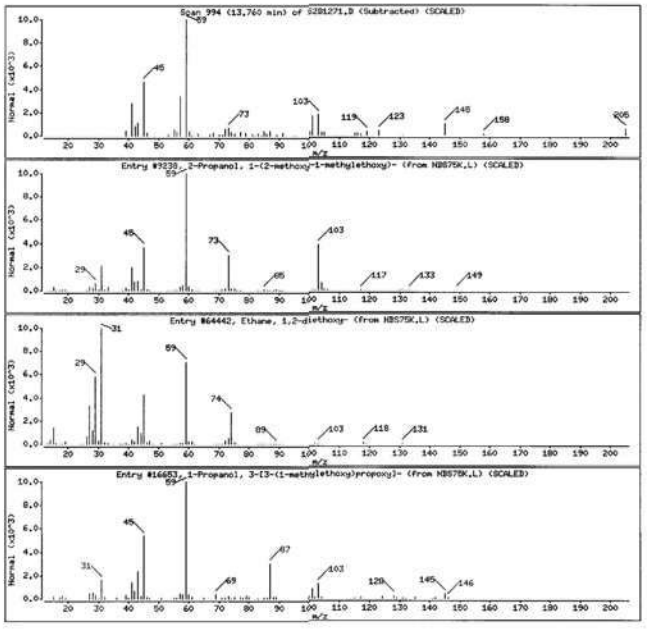
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Height
Unknown						
2-Propanol, 1-(2-methoxy-1-methylethoxy)	20324-32-7	NBS75K.L	9238	45	C7H1603	148
Ethane, 1,2-diethoxy-	629-14-1	NBS75K.L	64442	45	C6H1402	118
1-Propanol, 3-[3-(1-methylethoxy)propoxy	84618-03-5	NBS75K.L	16653	45	C9H2003	176



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1271.D

Date : 21-JAN-2003 16:49

Client ID: AOC3CTCP6RE

Instrument: s2.i

Sample Info: A1905-01DRE,AOC3CTCP6RE,5197,JC,A1905

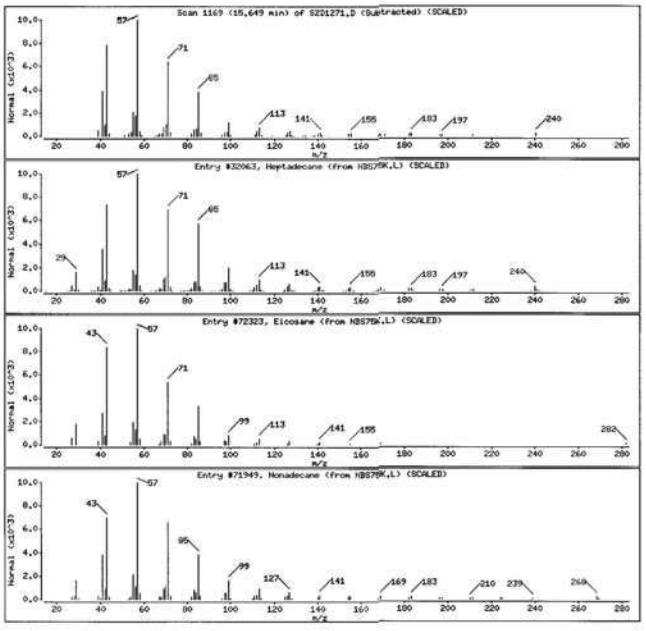
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Height
Straight-chain Alkane						
Heptadecane	629-78-7	NBS75K.L	32063	96	C17H36	240
Eicosane	112-95-8	NBS75K.L	72323	91	C20H42	282
Nonadecane	629-92-5	NBS75K.L	71949	90	C19H40	268



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.1\030121.B\S201271.D

Date : 21-JAN-2003 16:49

Client ID: AOC3CTCP4RE

Instrument: s2.i

Sample Info: A1905-01SRE,AOC3CTCP4RE,5197,JC,A1906

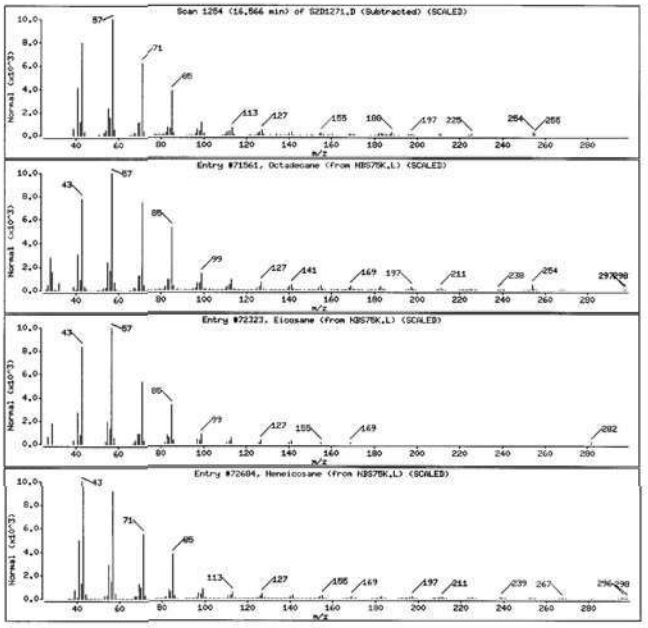
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Octadecane	593-45-3	NBS75K.L	71561	97	C18H38	254
Eicosane	112-95-8	NBS75K.L	72323	91	C20H42	282
Heneicosane	629-94-7	NBS75K.L	72684	90	C21H44	296



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.1\030121.B\S201271.D

Date : 21-JAN-2003 16:49

Client ID: AOC3CTCP4RE

Instrument: s2.i

Sample Info: A1905-01SRE,AOC3CTCP4RE,5197,JC,A1906

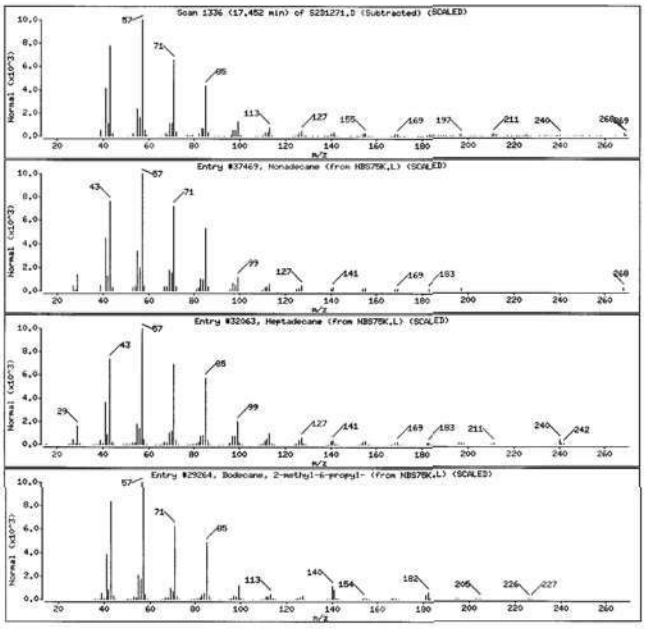
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Nonadecane	629-92-5	NBS75K.L	37469	98	C19H40	268
Heptadecane	629-78-7	NBS75K.L	32063	95	C17H36	240
Dodecane, 2-methyl-6-propyl-	55045-08-4	NBS75K.L	29264	93	C16H34	226



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.1\030121.B\S201271.D

Date : 21-JAN-2003 16:49

Client ID: AOC3CTCP4RE

Instrument: s2.i

Sample Info: A1905-01SRE,AOC3CTCP4RE,5197,JC,A1906

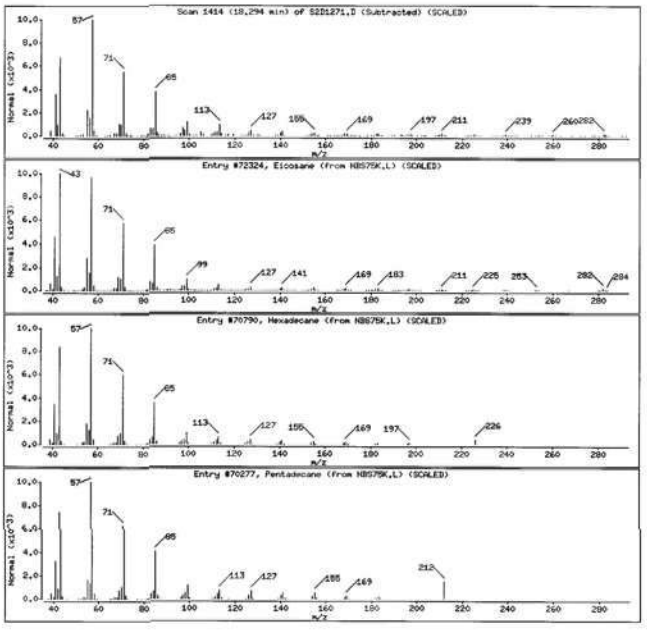
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Eicosane	112-95-8	NBS75K.L	72324	96	C20H42	282
Hexadecane	544-76-3	NBS75K.L	70790	96	C16H34	226
Pentadecane	629-62-9	NBS75K.L	70277	94	C15H32	212



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.1\030121.B\S201271.D

Date : 21-JAN-2003 16:49

Client ID: AOC3CTCP4RE

Instrument: s2.i

Sample Info: A1905-01SRE,AOC3CTCP4RE,5197,JC,A1906

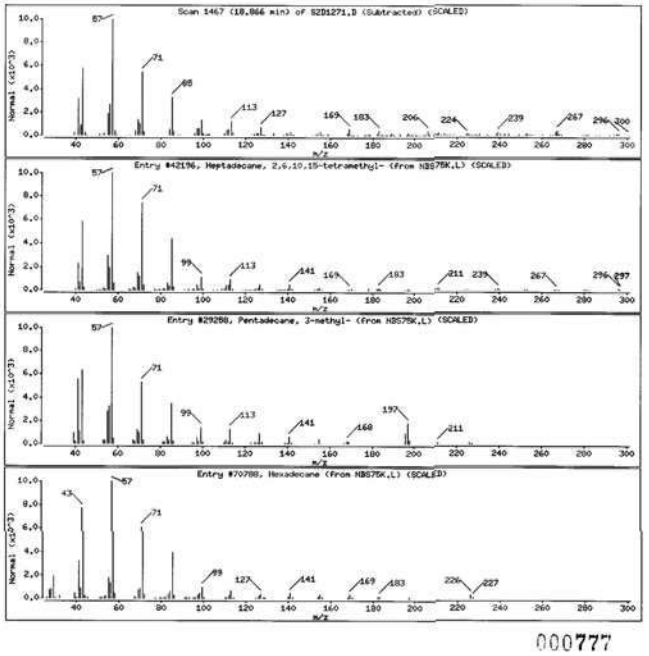
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
Heptadecane, 2,6,10,15-tetramethyl-	54833-48-6	NBS75K.L	42196	94	C21H44	296
Pentadecane, 3-methyl-	2882-96-4	NBS75K.L	29258	91	C16H34	226
Hexadecane	544-76-3	NBS75K.L	70788	76	C16H34	226



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S201271.D

Date : 21-JAN-2003 16:49

Client ID: AOC3CTCP&RE

Instrument: s2.i

Sample Info: A1905-01DRE,AOC3CTCP&RE,5197,JC,A1905

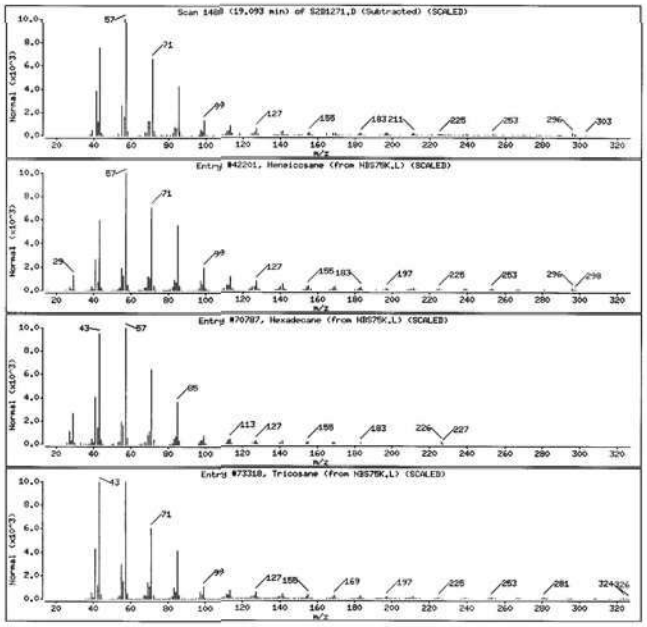
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Heneicosane	629-94-7	NBS75K.L	42201	98	C21H44	296
Hexadecane	544-76-3	NBS75K.L	70787	94	C16H34	226
Tricosane	638-67-5	NBS75K.L	73319	91	C23H48	324



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S201271.D

Date : 21-JAN-2003 16:49

Client ID: AOC3CTCP&RE

Instrument: s2.i

Sample Info: A1905-01DRE,AOC3CTCP&RE,5197,JC,A1905

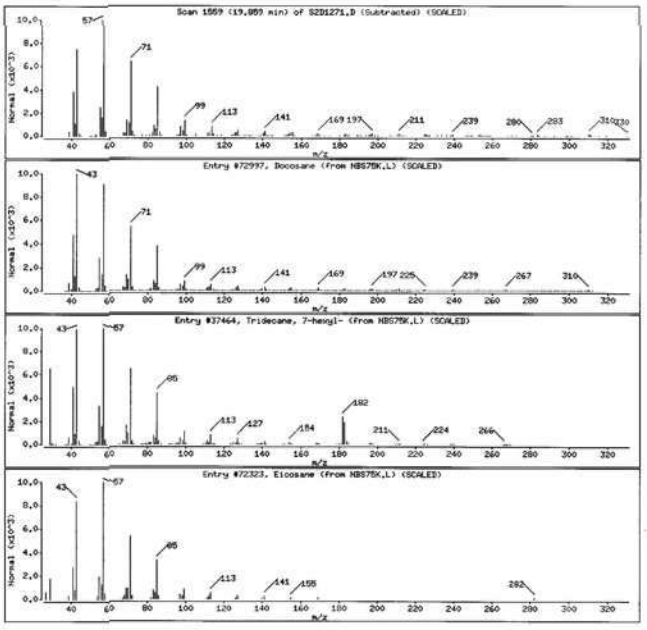
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Docosane	629-97-0	NBS75K.L	72997	98	C22H46	310
Tridecane, 7-hexyl-	7225-66-3	NBS75K.L	37464	96	C19H40	268
Eicosane	112-95-8	NBS75K.L	72323	91	C20H42	282



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S201271.D

Date : 21-JAN-2003 16:49

Client ID: AOC3CTCP&RE

Instrument: s2.i

Sample Info: A1905-01DRE,AOC3CTCP&RE,5197,JC,A1905

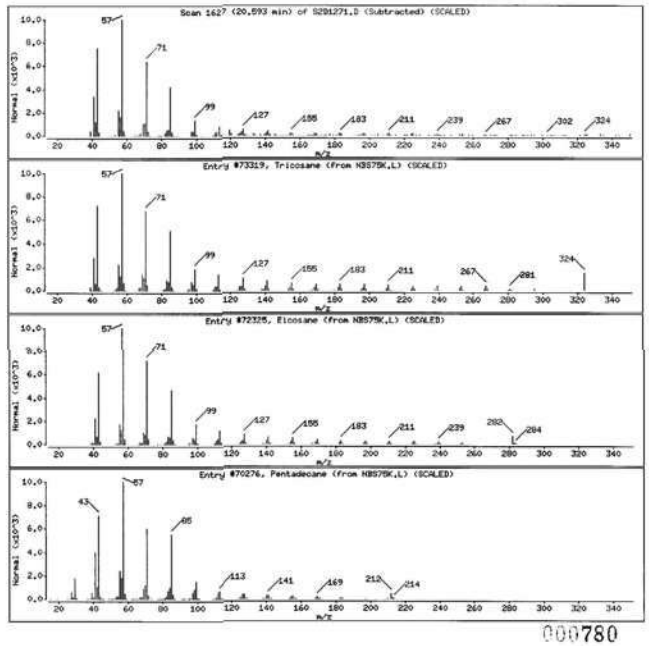
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Tricosane	638-67-5	NBS75K.L	73319	98	C23H48	324
Eicosane	112-95-8	NBS75K.L	72325	95	C20H42	282
Pentadecane	629-62-9	NBS75K.L	70276	91	C15H32	212



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S201271.D

Date : 21-JAN-2003 16:49

Client ID: AOC3CTCP&RE

Instrument: s2.i

Sample Info: A1905-01DRE,AOC3CTCP&RE,5197,JC,A1905

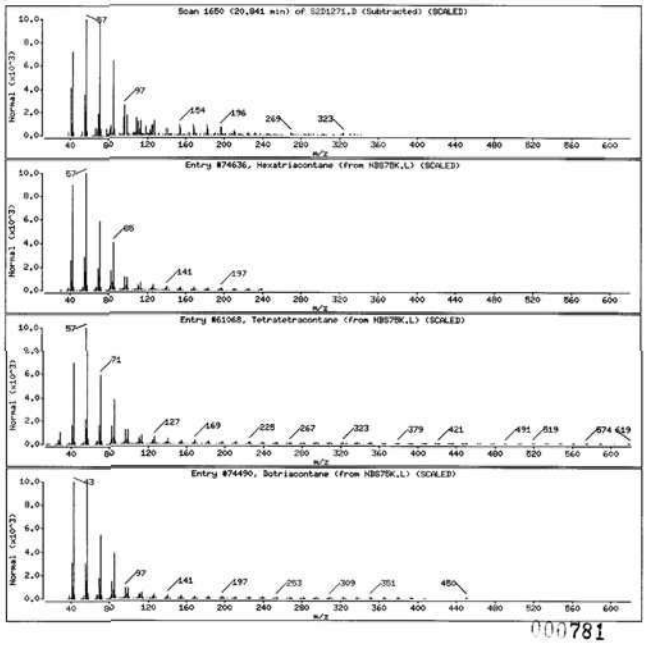
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Hexatriacontane	630-06-8	NBS75K.L	74636	87	C36H74	507
Tetratetracontane	7098-22-8	NBS75K.L	61068	86	C44H90	619
Dotriacontane	544-85-4	NBS75K.L	74490	80	C32H66	451



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2,1\030121,B\S2D1271,D

Date : 21-JAN-2003 16:49

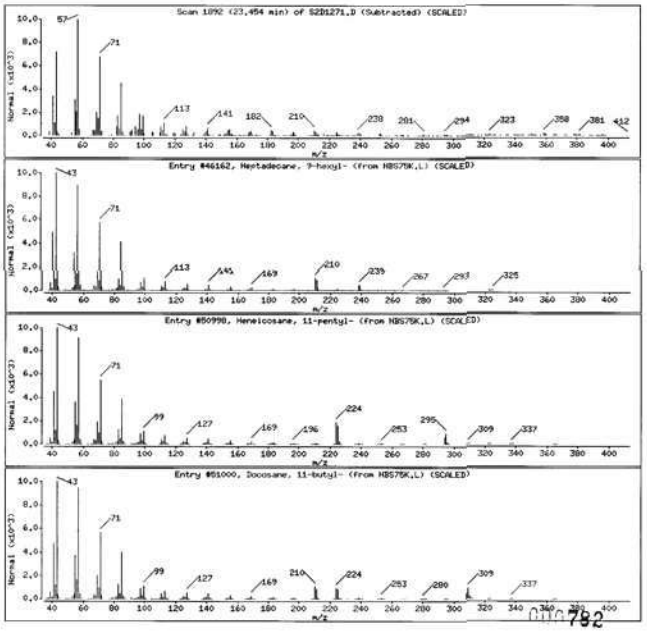
Client ID: AOC3CTCP6RE Instrument: s2.i

Sample Info: A1905-01DRE,AOC3CTCP6RE,6197,JC,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
Heptadecane, 9-hexyl-	55124-79-3	NBS75K.L	46162	93	C23H48	324
Heneicosane, 11-pentyl-	14739-72-1	NBS75K.L	50998	93	C26H54	366
Docosane, 11-butyl-	13475-76-8	NBS75K.L	51000	93	C26H54	366



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC3CTCP7

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-02D

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S2D0951

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 0 decanted: (Y/N) N Date Extracted: 12/24/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/03/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	670	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	670	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	670	U
83-32-9	Acenaphthene	330	U

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC3CTCP7

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-02D

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S2D0951

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 0 decanted: (Y/N) N Date Extracted: 12/24/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/03/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	670	U
100-02-7	4-Nitrophenol	670	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	670	U
534-52-1	4,6-Dinitro-2-methylphenol	670	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	670	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	2900	
117-84-0	Di-n-octylphthalate	79	J
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: AOC3CTCP7

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-02D

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S2D0951

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 12/24/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/03/03

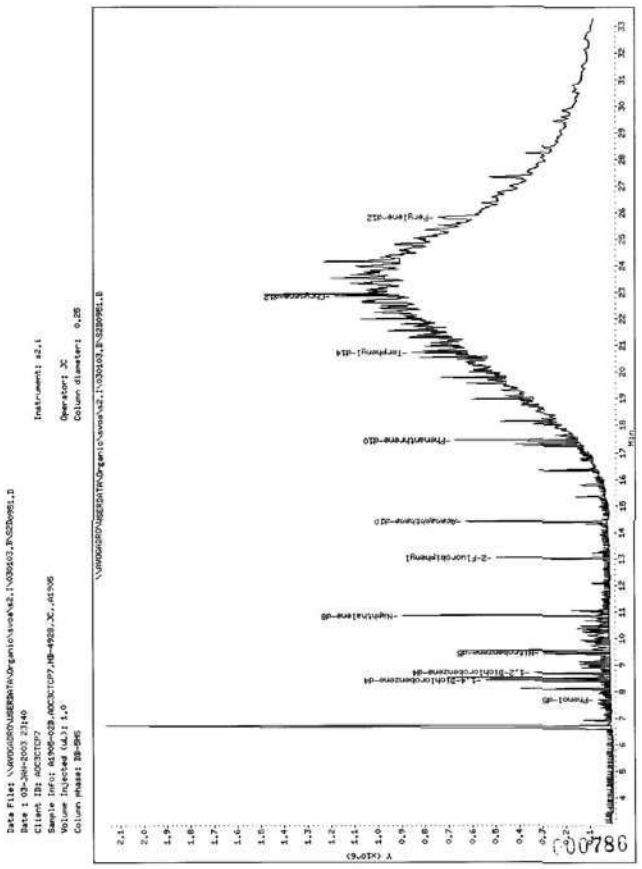
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 6 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	8.50	1600	J
2.		UNKNOWN	16.32	570	J
3.		UNKNOWN	20.78	990	J
4.		UNKNOWN	21.53	1100	J
5.		UNKNOWN	21.99	1000	J
6.		UNKNOWN	23.52	1400	J
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC OLM03.0



Data File: S2D0951.D
Report Date: 29-Jan-2003 09:44

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0951.D
Lab Smp Id: A1905-02D Client Smp ID: AOC3CTCP7
Inj Date : 03-JAN-2003 23:40
Operator : JC Inst ID: s2.i
Smp Info : A1905-02D,AOC3CTCP7,MB-4928,JC,,A1905
Misc Info : 0,,,1,,,,30.1,,,24-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\s2_8270C.m
Meth Date : 24-Jan-2003 13:27 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D ✓
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL) ✓
Ws	30.100	Weight of sample extracted (g) ✓
M	0.000	% Moisture

	Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
$	5 Phenol-d5	99	7.634	7.693	(0.914)	16699	2.72165	90(a8)
*	12 1,4-Dichlorobenzene-d4	152	8.417	8.405	(1.000)	133534	40.0000	
$	14 1,2-Dichlorobenzene-d4	152	8.698	8.686	(1.033)	84593	29.4557	960
$	22 Nitrobenzene-d5	82	9.442	9.431	(0.871)	126641	28.7994	960
*	31 Naphthalene-d8	136	10.846	10.845	(1.000)	455681	40.0000	
$	41 2-Fluorobiphenyl	172	13.026	13.015	(0.905)	256433	32.0745	1100
*	48 Acenaphthene-d10	164	14.397	14.386	(1.000)	237597	40.0000	
*	64 Phenanthrene-d10	188	17.431	17.419	(1.000)	343646	40.0000	
$	72 Terphenyl-d14	244	20.713	20.690	(0.926)	163876	44.9969	1500
*	76 Chrysene-d12	240	22.850	22.827	(1.000)	155110	40.0000	
	78 bis(2-Ethylhexyl)phthalate	149	22.915	22.892	(1.003)	300981	88.3488	2900
	79 Di-n-octylphthalate	149	24.178	24.144	(0.937)	9550	2.38203	79(a)
*	81 Perylene-d12	264	25.808	25.764	(1.000)	54866	40.0000	

1/29/03

Data File: S2D0951.D
Report Date: 29-Jan-2003 09:44

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: S2D0951.D
Report Date: 29-Jan-2003 09:44

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0951.D
Lab Smp Id: A1905-02D Client Smp ID: AOC3CTCP7
Inj Date : 03-JAN-2003 23:40
Operator : JC Inst ID: s2.i
Smp Info : A1905-02D,AOC3CTCP7,MB-4928,JC,,A1905
Misc Info : 0,,,1,,,,30.1,,,24-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\s2_8270C.m
Meth Date : 24-Jan-2003 13:27 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.100	Weight of sample extracted (g)
M	0.000	% Moisture

	ISTD	RT	AREA	AMOUNT
*	12 1,4-Dichlorobenzene-d4	8.417	934138	40.000
*	31 Naphthalene-d8	10.846	1506412	40.000
*	64 Phenanthrene-d10	17.431	900660	40.000
*	76 Chrysene-d12	22.850	514123	40.000

RT	AREA	CONCENTRATIONS ON-COL(ng)	CONCENTRATIONS FINAL(ug/Kg)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	QUANT CPND #
----	----	----------	----------	----	-------	---------	------

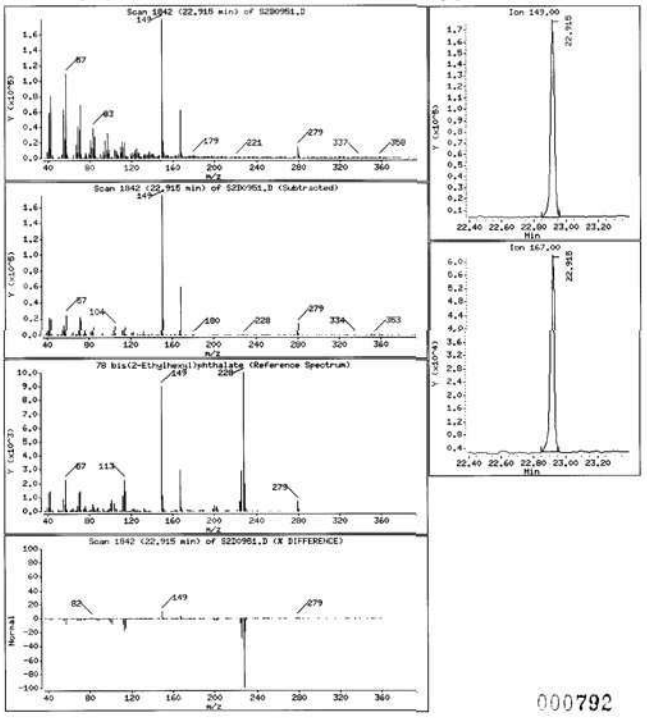
Data File: S2D0951.D
Report Date: 29-Jan-2003 09:44

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Straight-Chain Alkane				CAS #:			
8.093	675549	28.9271607	960	0		0	12
Unknown				CAS #:			
8.503	1130168	48.3540317	1600	0		0	12
Branched Alkane				CAS #:			
9.113	356851	15.2804494	510	0		0	12
Straight-Chain Alkane				CAS #:			
9.518	1078221	46.1496666	1500	0		0	12
Branched Alkane				CAS #:			
9.745	374092	9.93112501	330	0		0	31
Branched Alkane				CAS #:			
10.112	513483	13.6345366	450	0		0	31
Unknown				CAS #:			
16.319	388106	17.2365154	570	0		0	64
Branched Alkane				CAS #:			
16.351	401818	17.8454911	590	0		0	64
Straight-Chain Alkane				CAS #:			
17.247	410393	18.2263229	600	0		0	64
Branched Alkane				CAS #:			
17.301	559776	24.8687022	820	0		0	64
Straight-Chain Alkane				CAS #:			
18.122	399784	17.7551573	590	0		0	64
Straight-Chain Alkane				CAS #:			
18.964	536778	23.8393178	790	0		0	64
Straight-Chain Alkane				CAS #:			
19.773	421316	18.7114338	620	0		0	64
Straight-Chain Alkane				CAS #:			
20.540	699355	38.8510143	1300	0		0	76
Unknown				CAS #:			
20.777	384634	29.9254459	990	0		0	76

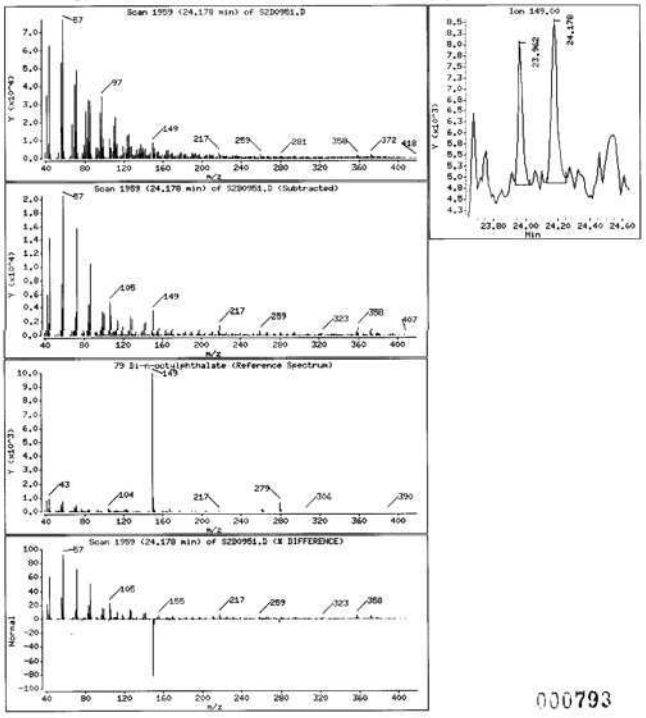
Data File: S2D0951.D
Report Date: 29-Jan-2003 09:44

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
21.533	436845	33.9875866	1100	0		0	76
Unknown				CAS #:			
21.986	406731	31.6423113	1000	0		0	76
Unknown				CAS #:			
23.519	533048	41.4717879	1400	0		0	76
Straight-Chain Alkane				CAS #:			
24.145	1089402	84.7734437	2800	0		0	76

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0951.D
Date : 03-JAN-2003 23:40
Client ID: AOC3CTCP7
Instrument: s2.i
Sample Info: A1905-02D,AOC3CTCP7,MB-4928,JC,,A1905
Volume Injected (uL): 1.0
Operator: JC
Column phase: DB-5MS
Column diameter: 0.25
78 bis(2-Ethylhexyl)phthalate
Concentration: 2900 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0951.D
Date : 03-JAN-2003 23:40
Client ID: AOC3CTCP7
Instrument: s2.i
Sample Info: A1905-02D,AOC3CTCP7,MB-4928,JC,,A1905
Volume Injected (uL): 1.0
Operator: JC
Column phase: DB-5MS
Column diameter: 0.25
79 Di-n-octylphthalate
Concentration: 79 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0951.D

Date : 03-JAN-2003 23:40

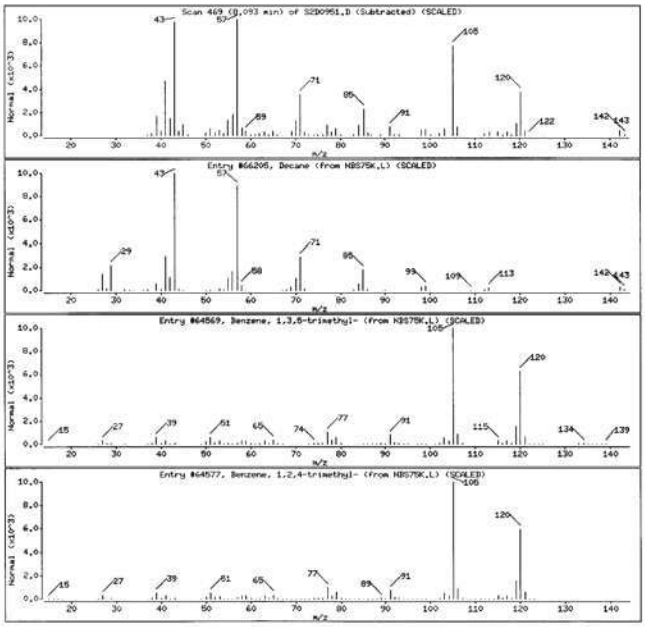
Client ID: AOC3CTCP7 Instrument: s2.i

Sample Info: A1905-02D,AOC3CTCP7,HB-4920,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Decane	124-18-5	NBS75K.L	66206	89	C10H22	142
Benzene, 1,3,5-trimethyl-	108-67-8	NBS75K.L	64569	89	C9H12	120
Benzene, 1,2,4-trimethyl-	95-63-6	NBS75K.L	64577	89	C9H12	120



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0951.D

Date : 03-JAN-2003 23:40

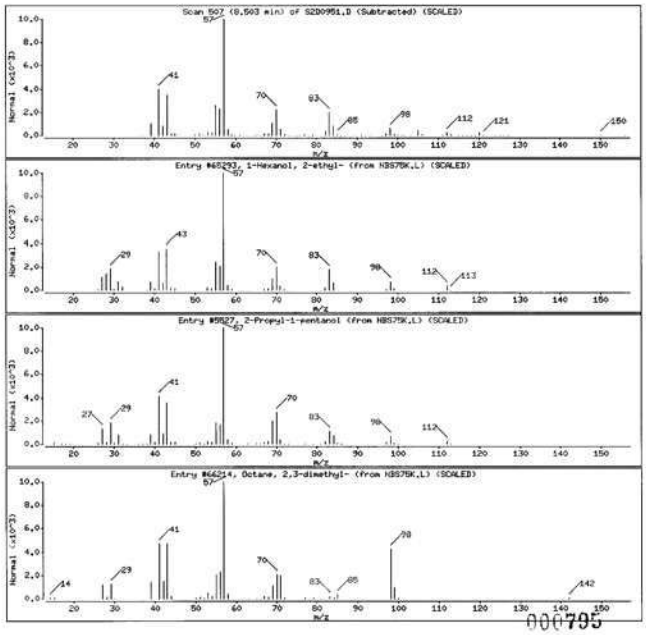
Client ID: AOC3CTCP7 Instrument: s2.i

Sample Info: A1905-02D,AOC3CTCP7,HB-4920,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Hexanol, 2-ethyl-	104-76-7	NBS75K.L	65293	78	C8H18O	130
2-Propyl-1-pentanol	58175-57-8	NBS75K.L	5527	50	C8H18O	130
Octane, 2,3-dimethyl-	7146-60-3	NBS75K.L	66214	47	C10H22	142



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0951.D

Date : 03-JAN-2003 23:40

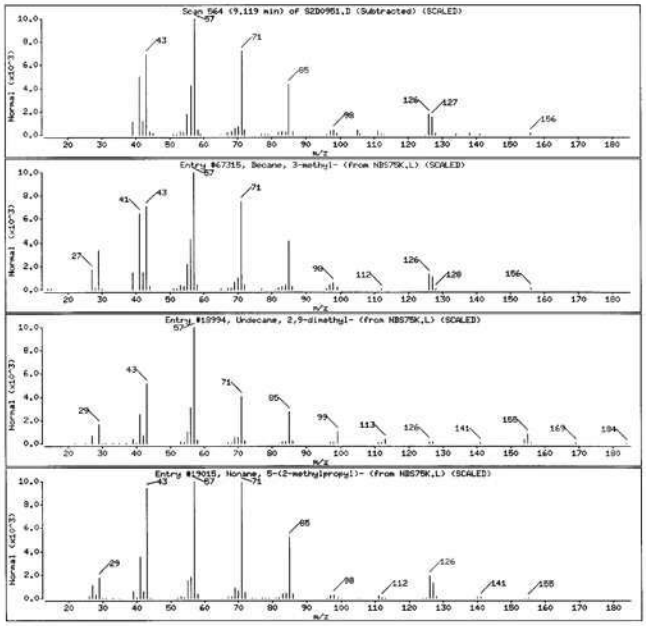
Client ID: AOC3CTCP7 Instrument: s2.i

Sample Info: A1905-02D,AOC3CTCP7,HB-4920,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
Decane, 3-methyl-	13151-34-3	NBS75K.L	67315	94	C11H24	156
Undecane, 2,9-dimethyl-	17301-26-7	NBS75K.L	19994	72	C13H28	184
Nonane, 5-(2-methylpropyl)-	62185-53-9	NBS75K.L	19015	64	C13H28	184



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0951.D

Date : 03-JAN-2003 23:40

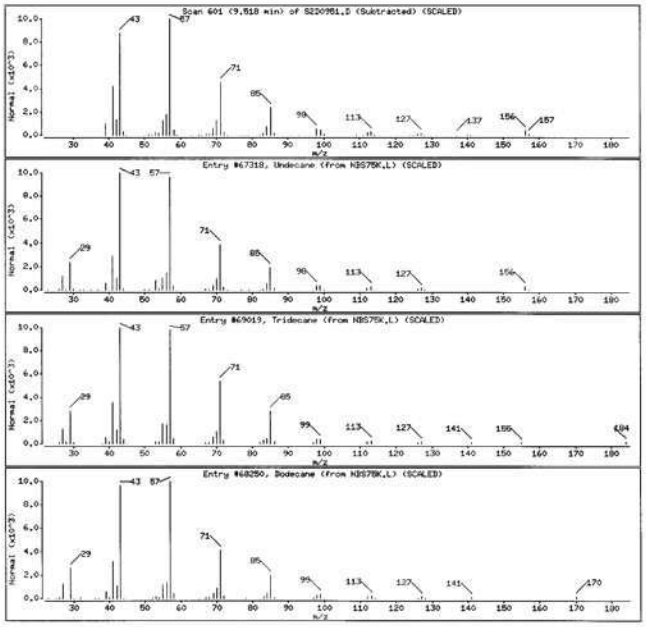
Client ID: AOC3CTCP7 Instrument: s2.i

Sample Info: A1905-02D,AOC3CTCP7,HB-4920,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Undecane	1120-21-4	NBS75K.L	67318	95	C11H24	156
Tridecane	629-50-5	NBS75K.L	69019	90	C13H28	184
Dodecane	112-40-3	NBS75K.L	68250	86	C12H26	170



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0951.D

Date : 03-JAN-2003 23:40

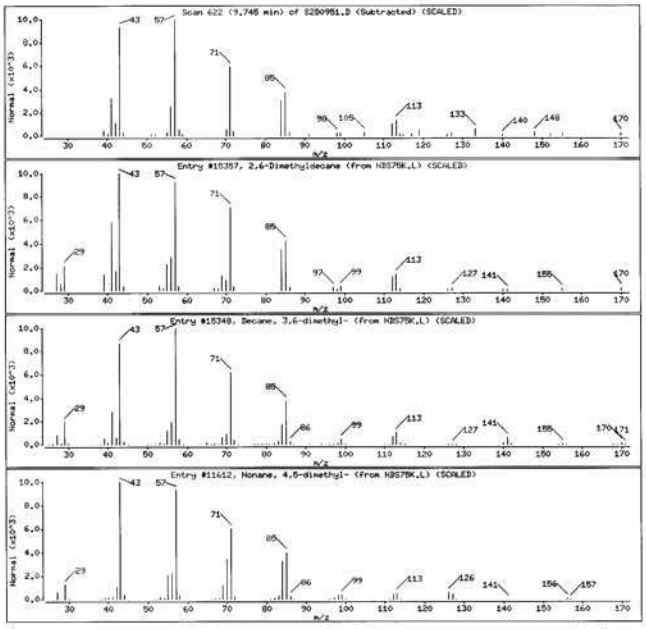
Client ID: AOC3CTCP7 Instrument: s2.i

Sample Info: A1905-02D,AOC3CTCP7,HB-4928.JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
2,6-Dimethyldecane	13150-81-7	NBS75K.L	15357	93	C12H26	170
Decane, 3,6-dimethyl-	17312-53-7	NBS75K.L	15348	87	C12H26	170
Nonane, 4,5-dimethyl-	17302-23-7	NBS75K.L	11612	72	C11H24	156



000798

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0951.D

Date : 03-JAN-2003 23:40

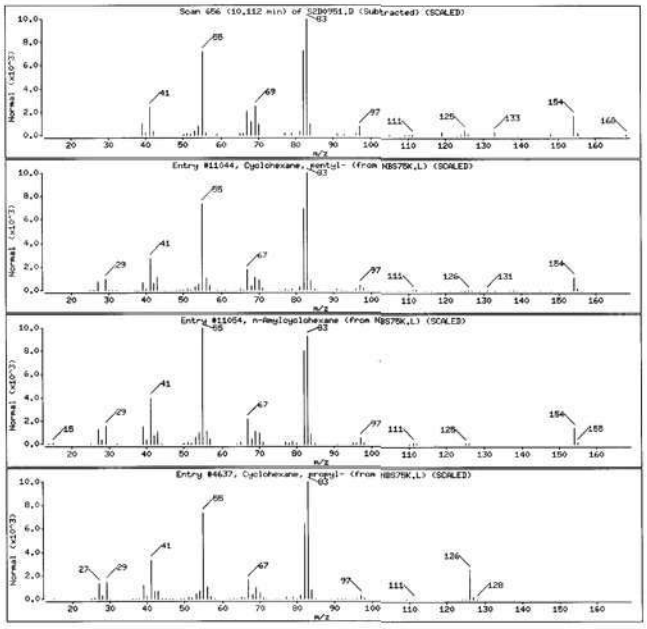
Client ID: AOC3CTCP7 Instrument: s2.i

Sample Info: A1905-02D,AOC3CTCP7,HB-4928.JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
Cyclohexane, pentyl-	4292-92-6	NBS75K.L	11044	90	C11H22	154
n-Amylcyclohexane	29949-27-7	NBS75K.L	11054	87	C11H22	154
Cyclohexane, propyl-	1678-92-8	NBS75K.L	4637	72	C9H18	126



000799

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0951.D

Date : 03-JAN-2003 23:40

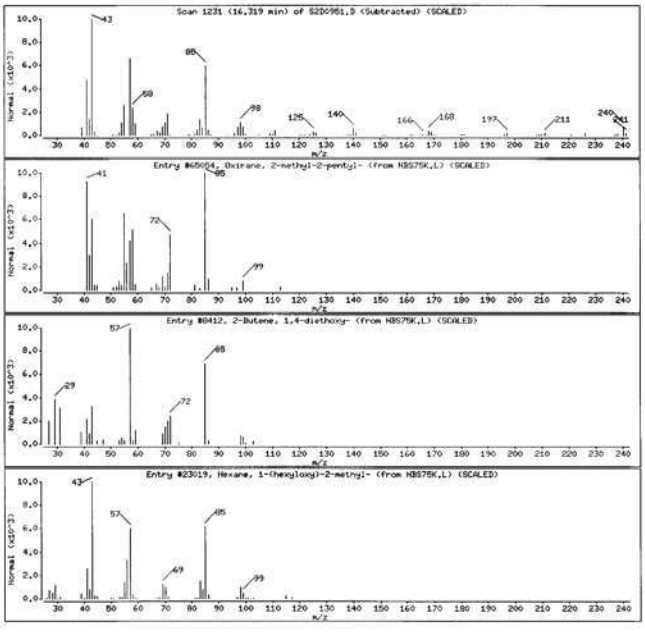
Client ID: AOC3CTCP7 Instrument: s2.i

Sample Info: A1905-02D,AOC3CTCP7,HB-4928.JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Oxirane, 2-methyl-2-pentyl-	53907-75-8	NBS75K.L	65054	47	C8H16O	128
2-Butene, 1,4-diethoxy-	7250-85-3	NBS75K.L	8412	47	C8H16O2	144
Hexane, 1-(hexyloxy)-2-methyl-	74421-17-3	NBS75K.L	23019	38	C13H28O	200



000800

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0951.D

Date : 03-JAN-2003 23:40

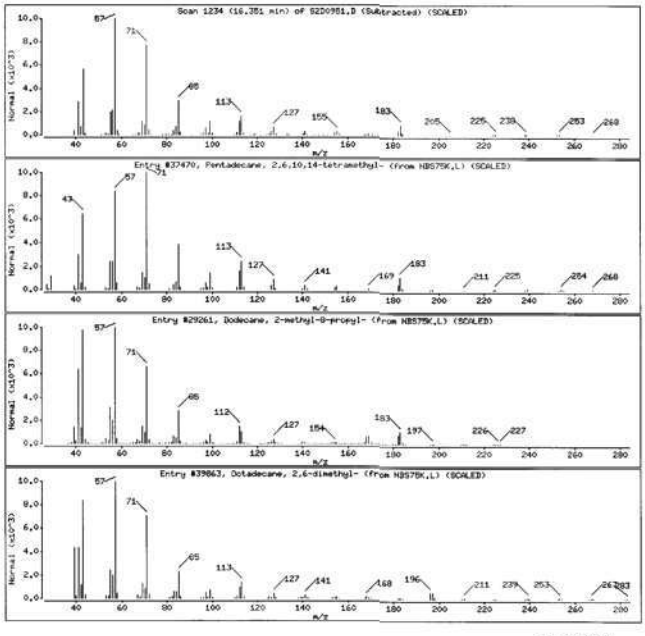
Client ID: AOC3CTCP7 Instrument: s2.i

Sample Info: A1905-02D,AOC3CTCP7,HB-4928.JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
Pentadecane, 2,6,10,14-tetramethyl-	1921-70-6	NBS75K.L	37470	98	C19H40	268
Dodecane, 2-methyl-8-propyl-	85045-07-3	NBS75K.L	29261	90	C16H34	226
Octadecane, 2,6-dimethyl-	75163-97-2	NBS75K.L	39863	86	C20H42	282



000801

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2,I\030103,B\S2D0951,D

Date : 03-JAN-2003 23:40

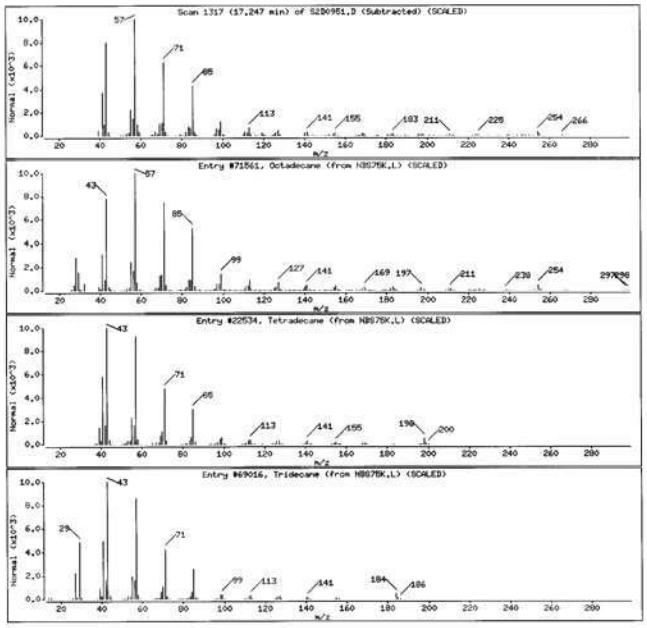
Client ID: A0C3CTCP7 Instrument: s2.i

Sample Info: A1905-02D,A0C3CTCP7,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Octadecane	593-45-3	NBS75K.L	71561	98	C18H38	254
Tetradecane	629-59-4	NBS75K.L	22534	96	C14H30	198
Tridecane	629-50-5	NBS75K.L	69016	93	C13H28	184



000802

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2,I\030103,B\S2D0951,D

Date : 03-JAN-2003 23:40

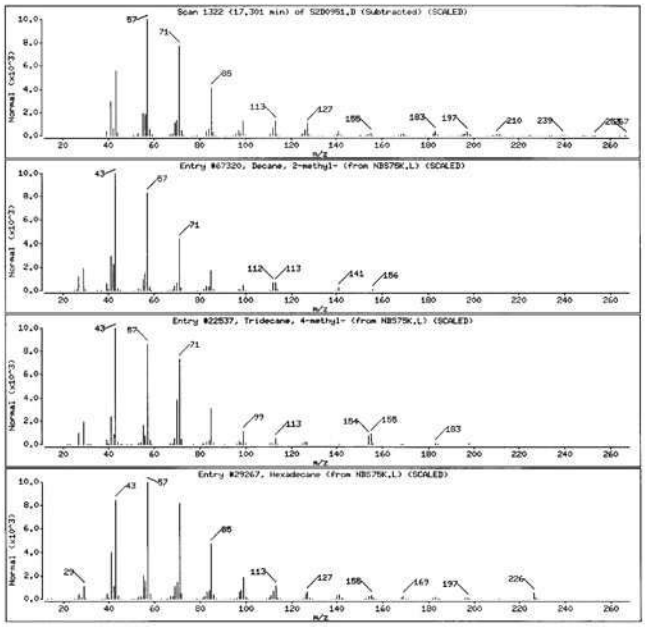
Client ID: A0C3CTCP7 Instrument: s2.i

Sample Info: A1905-02D,A0C3CTCP7,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
Decane, 2-methyl-	6975-98-0	NBS75K.L	67320	87	C11H24	156
Tridecane, 4-methyl-	26730-12-1	NBS75K.L	22537	87	C14H30	198
Hexadecane	544-76-3	NBS75K.L	29267	87	C16H34	226



000803

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2,I\030103,B\S2D0951,D

Date : 03-JAN-2003 23:40

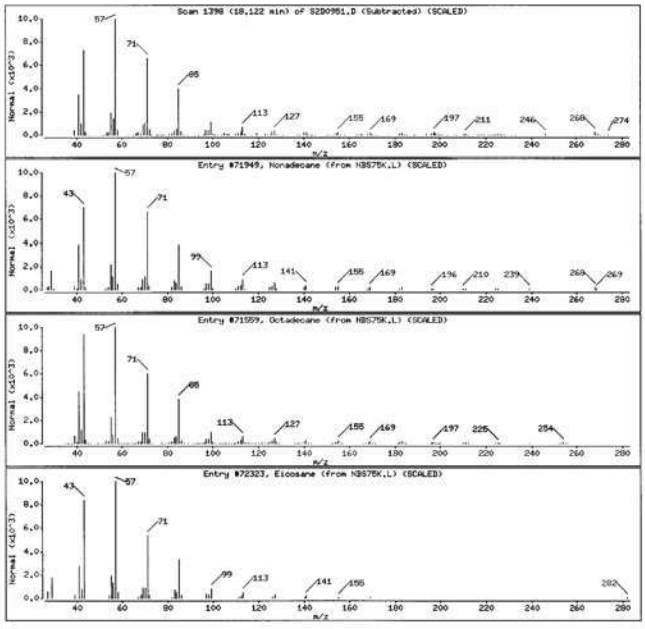
Client ID: A0C3CTCP7 Instrument: s2.i

Sample Info: A1905-02D,A0C3CTCP7,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Nonadecane	629-92-5	NBS75K.L	71949	95	C19H40	268
Octadecane	593-45-3	NBS75K.L	71559	91	C18H38	254
Eicosane	112-95-8	NBS75K.L	72323	91	C20H42	282



000804

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2,I\030103,B\S2D0951,D

Date : 03-JAN-2003 23:40

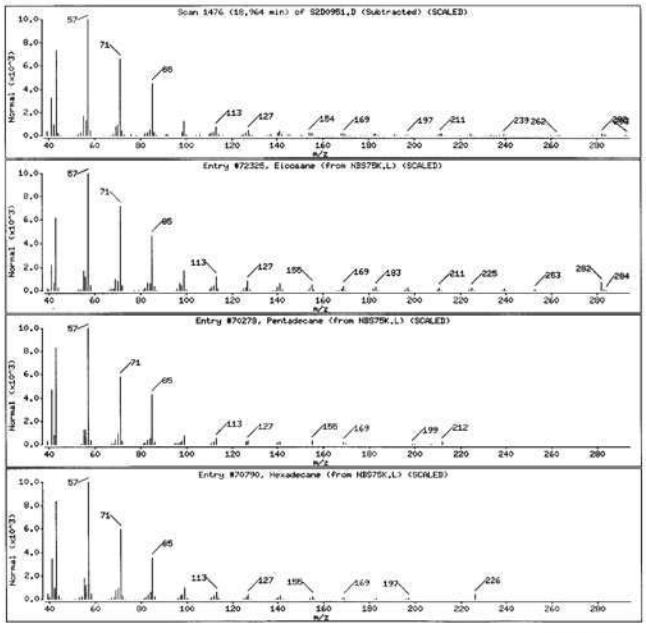
Client ID: A0C3CTCP7 Instrument: s2.i

Sample Info: A1905-02D,A0C3CTCP7,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Eicosane	112-95-8	NBS75K.L	72325	97	C20H42	282
Pentadecane	629-62-9	NBS75K.L	70278	95	C15H32	212
Hexadecane	544-76-3	NBS75K.L	70790	91	C16H34	226



000805

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0951.D

Date : 03-JAN-2003 23:40

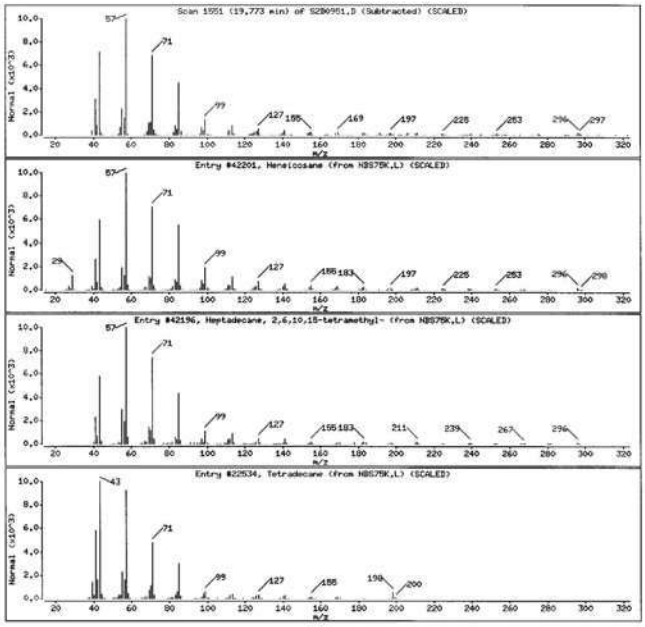
Client ID: AOC3CTCP7 Instrument: s2.i

Sample Info: A1905-02D,AOC3CTCP7,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Heneicosane	629-94-7	NBS75K.L	42201	99	C21H44	296
Heptadecane, 2,6,10,15-tetramethyl-	54833-48-6	NBS75K.L	42196	91	C21H44	296
Tetradecane	629-59-4	NBS75K.L	22534	91	C14H30	198



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0951.D

Date : 03-JAN-2003 23:40

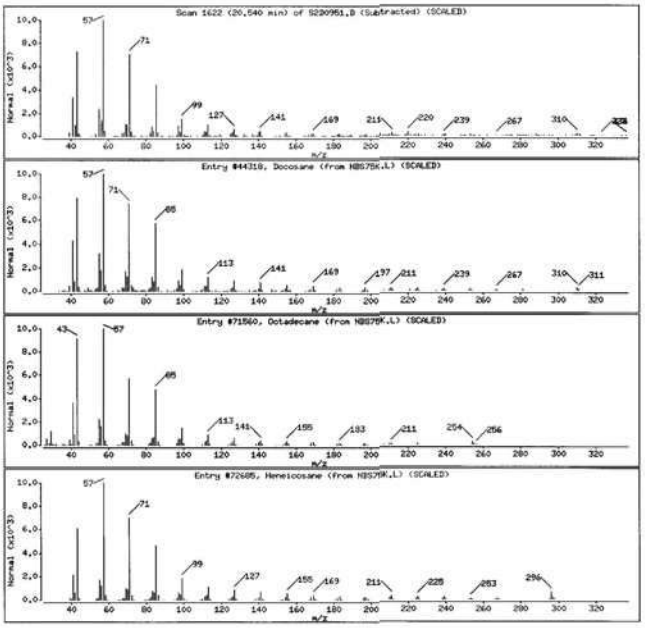
Client ID: AOC3CTCP7 Instrument: s2.i

Sample Info: A1905-02D,AOC3CTCP7,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Docosane	629-97-0	NBS75K.L	44318	98	C22H46	310
Octadecane	593-45-3	NBS75K.L	71560	91	C18H38	254
Heneicosane	629-94-7	NBS75K.L	72685	91	C21H44	296



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0951.D

Date : 03-JAN-2003 23:40

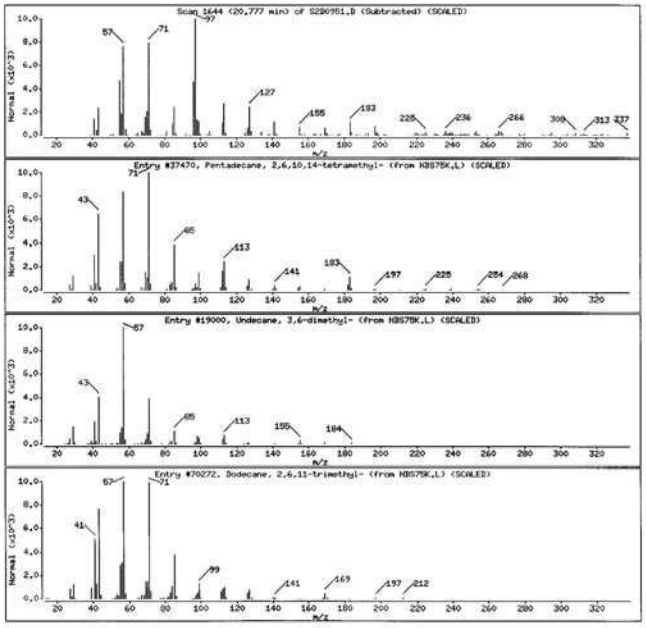
Client ID: AOC3CTCP7 Instrument: s2.i

Sample Info: A1905-02D,AOC3CTCP7,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Pentadecane, 2,6,10,14-tetramethyl-	1921-70-6	NBS75K.L	37470	50	C19H40	268
Undecane, 3,6-dimethyl-	17301-28-9	NBS75K.L	19000	38	C13H28	184
Dodecane, 2,6,11-trimethyl-	31295-56-4	NBS75K.L	70272	27	C15H32	212



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0951.D

Date : 03-JAN-2003 23:40

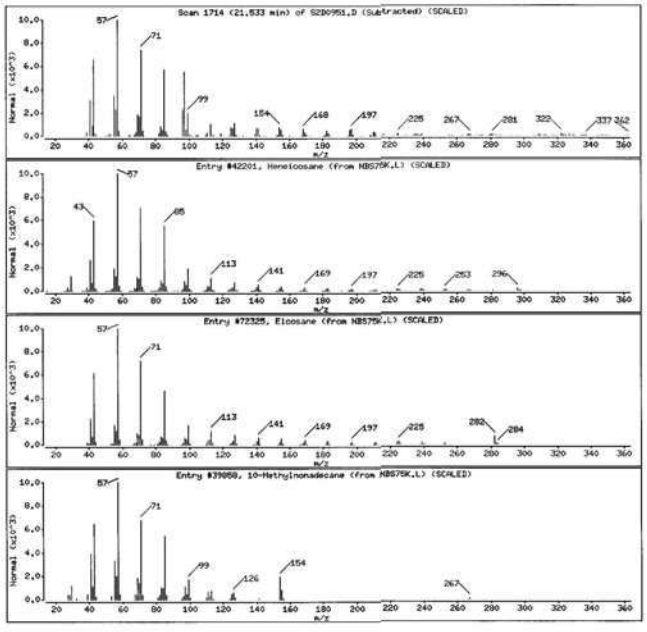
Client ID: AOC3CTCP7 Instrument: s2.i

Sample Info: A1905-02D,AOC3CTCP7,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Heneicosane	629-94-7	NBS75K.L	42201	62	C21H44	296
Eicosane	112-95-8	NBS75K.L	72325	58	C20H42	282
10-Methylnonadecane	0-00-0	NBS75K.L	39858	58	C20H42	282



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0951.D

Date : 03-JAN-2003 23:40

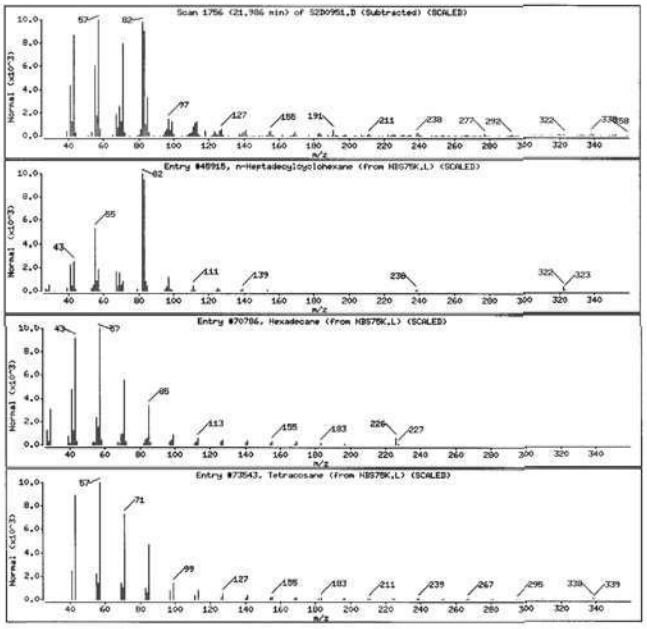
Client ID: AOC3CTCP7 Instrument: s2.i

Sample Info: A1905-02D,AOC3CTCP7,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
n-Heptadecylcyclohexane	19781-73-8	NBS75K.L	45915	58	C23H46	322
Hexadecane	544-76-3	NBS75K.L	70706	53	C16H34	226
Tetracosane	646-31-1	NBS75K.L	73543	51	C24H50	338



000810

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0951.D

Date : 03-JAN-2003 23:40

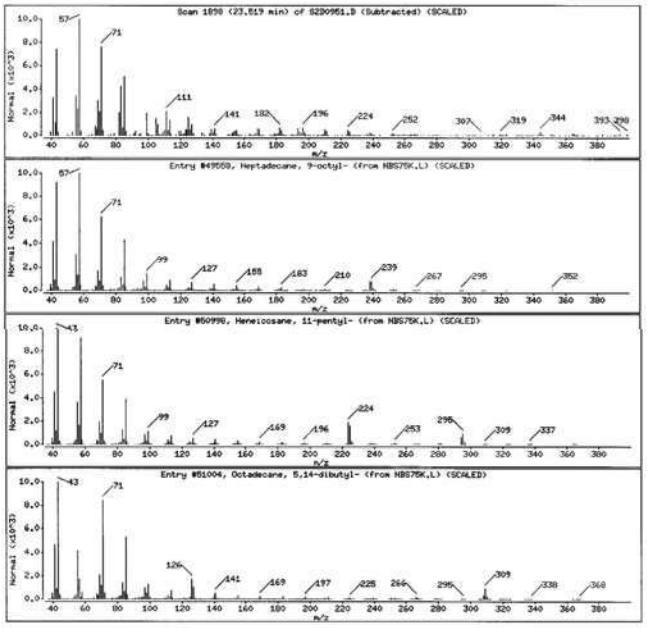
Client ID: AOC3CTCP7 Instrument: s2.i

Sample Info: A1905-02D,AOC3CTCP7,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Heptadecane, 9-octyl-	7225-64-1	NBS75K.L	49658	83	C25H52	352
Heneicosane, 11-pentyl-	14739-72-1	NBS75K.L	60998	62	C26H54	366
Octadecane, 5,14-dibutyl-	55282-13-8	NBS75K.L	61004	60	C26H54	366



000811

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0951.D

Date : 03-JAN-2003 23:40

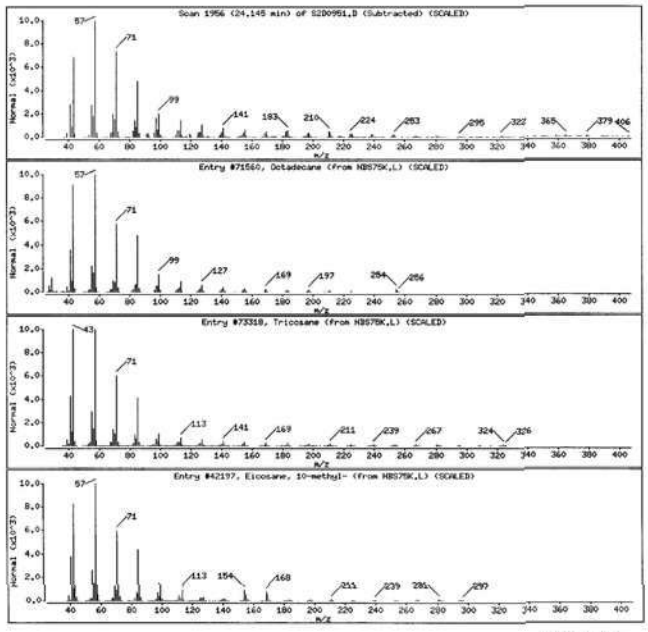
Client ID: AOC3CTCP7 Instrument: s2.i

Sample Info: A1905-02D,AOC3CTCP7,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Octadecane	593-45-3	NBS75K.L	71560	95	C18H38	254
Tricosane	638-67-5	NBS75K.L	73318	93	C23H48	324
Eicosane, 10-methyl-	54833-23-7	NBS75K.L	42197	93	C21H44	296



000812

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC3CTCP7RE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-02DRE

Sample wt/vol: 30.6 (g/mL) G Lab File ID: S2D1272

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/20/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	320	U
111-44-4	bis(2-Chloroethyl)Ether	320	U
95-57-8	2-Chlorophenol	320	U
541-73-1	1,3-Dichlorobenzene	320	U
106-46-7	1,4-Dichlorobenzene	320	U
95-50-1	1,2-Dichlorobenzene	320	U
95-48-7	2-Methylphenol	320	U
108-60-1	2,2'-oxybis(1-Chloropropane)	320	U
106-44-5	4-Methylphenol	320	U
621-64-7	N-Nitroso-di-n-propylamine	320	U
67-72-1	Hexachloroethane	320	U
98-95-3	Nitrobenzene	320	U
78-59-1	Isophorone	320	U
88-75-5	2-Nitrophenol	320	U
105-67-9	2,4-Dimethylphenol	320	U
120-83-2	2,4-Dichlorophenol	320	U
120-82-1	1,2,4-Trichlorobenzene	320	U
91-20-3	Naphthalene	320	U
106-47-8	4-Chloroaniline	320	U
111-91-1	bis(2-Chloroethoxy)methane	320	U
87-68-3	Hexachlorobutadiene	320	U
59-50-7	4-Chloro-3-Methylphenol	320	U
91-57-6	2-Methylnaphthalene	320	U
77-47-4	Hexachlorocyclopentadiene	320	U
88-06-2	2,4,6-Trichlorophenol	320	U
95-95-4	2,4,5-Trichlorophenol	660	U
91-58-7	2-Chloronaphthalene	320	U
88-74-4	2-Nitroaniline	660	U
131-11-3	Dimethylphthalate	320	U
208-96-8	Acenaphthylene	320	U
606-20-2	2,6-Dinitrotoluene	320	U
99-09-2	3-Nitroaniline	660	U
83-32-9	Acenaphthene	320	U

FORM I SV-1 OLM03.0

000813

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP7RE

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-02DRE
Sample wt/vol: 30.6 (g/mL) G Lab File ID: S2D1272
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/20/03
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	660	U
100-02-7	4-Nitrophenol	660	U
132-64-9	Dibenzofuran	320	U
121-14-2	2,4-Dinitrotoluene	320	U
84-66-2	Diethylphthalate	320	U
7005-72-3	4-Chlorophenyl-phenylether	320	U
86-73-7	Fluorene	320	U
100-01-6	4-Nitroaniline	660	U
534-52-1	4,6-Dinitro-2-methylphenol	660	U
86-30-6	N-Nitrosodiphenylamine (1)	320	U
101-55-3	4-Bromophenyl-phenylether	320	U
118-74-1	Hexachlorobenzene	320	U
87-86-5	Pentachlorophenol	660	U
85-01-8	Phenanthrene	320	U
120-12-7	Anthracene	320	U
86-74-8	Carbazole	320	U
84-74-2	Di-n-butylphthalate	320	U
206-44-0	Fluoranthene	320	U
129-00-0	Pyrene	320	U
85-68-7	Butylbenzylphthalate	320	U
91-94-1	3,3' Dichlorobenzidine	320	U
56-55-3	Benzo(a)anthracene	320	U
218-01-9	Chrysene	320	U
117-81-7	bis(2-Ethylhexyl)phthalate	2000	
117-84-0	Di-n-octylphthalate	320	U
205-99-2	Benzo(b)fluoranthene	320	U
207-08-9	Benzo(k)fluoranthene	320	U
50-32-8	Benzo(a)pyrene	320	U
193-39-5	Indeno(1,2,3-cd)pyrene	320	U
53-70-3	Dibenzo(a,h)anthracene	320	U
191-24-2	Benzo(g,h,i)perylene	320	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

000814

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3CTCP7RE

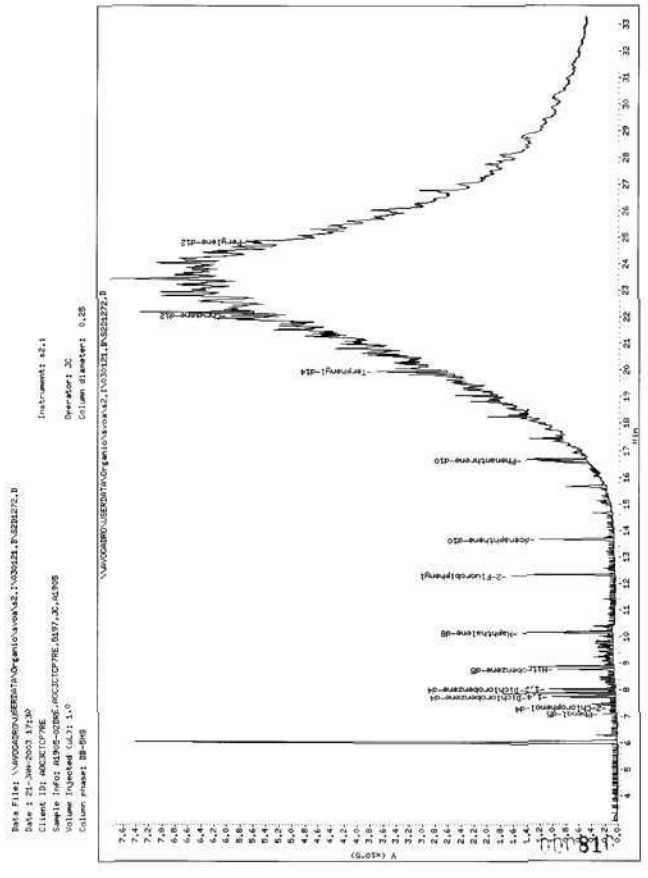
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-02DRE
Sample wt/vol: 30.6 (g/mL) G Lab File ID: S2D1272
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 01/20/03
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 6 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.87	1800	J
2.	UNKNOWN	9.24	360	J
3.	UNKNOWN	9.44	280	J
4.	UNKNOWN	9.60	300	J
5.	UNKNOWN	9.73	310	J
6.	UNKNOWN	9.81	270	J
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM03.0

000815



000816

Data File: S2D1272.D
Report Date: 29-Jan-2003 10:32

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1272.D
Lab Smp Id: A1905-02DRE Client Smp ID: AOC3CTCP7RE
Inj Date : 21-JAN-2003 17:30
Operator : JC Inst ID: s2.i
Smp Info : A1905-02DRE,AOC3CTCP7RE,5197,JC,A1905
Misc Info : 0,,,2,,,,30.6,,,20-JAN-03,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\s2_8270C.m
Meth Date : 27-Jan-2003 11:54 mtl Quant Type: ISTD
Cal Date : 18-JAN-2003 12:56 Cal File: S2D1202.D ✓
Als bottle: 38
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub ✓
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000 ✓	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.600 ✓	Weight of sample extracted (g)
M	0.000	% Moisture

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)	
S	5 Phenol-d5	99	7.100	7.104	(0.916)	15332	12.3566	400	(M)
S	9 2-Chlorophenol-d4	132	7.338	7.341	(0.943)	3449	3.2693	110	(M)
*	12 1,4-Dichlorobenzene-d4	152	7.748	7.751	(1.000)	31851	40.0000		(Q)
S	14 1,2 Dichlorobenzene-d4	152	8.018	8.021	(1.035)	26154	40.3430	1300	
S	22 Nitrobenzene-d5	82	8.773	8.777	(0.864)	41010	41.2694	1300	
*	31 Naphthalene-d8	136	10.155	10.159	(1.000)	110643	40.0000		
S	41 2-Fluorobiphenyl	172	12.325	12.328	(0.902)	90134	45.8275	1500	
*	48 Acenaphthene-d10	164	13.664	13.667	(1.000)	57744	40.0000		
*	64 Phenanthrene-d10	188	16.675	16.679	(1.000)	92597	40.0000		
S	72 Terphenyl-d14	244	19.968	19.950	(0.905)	77372	53.4266	1700	(M)
*	76 Chrysene-d12	240	22.073	22.055	(1.000)	70489	40.0000		(M)
	78 bis(2-Ethylhexyl)phthalate	149	22.203	22.174	(1.006)	87463	61.5618	2000	(M)
*	83 Perylene-d12	264	24.906	24.764	(1.000)	34065	40.0000		(M)

M1

1/29/03

1/29/03

000817

Data File: S2D1272.D
Report Date: 29-Jan-2003 10:32

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: S2D1272.D
Report Date: 29-Jan-2003 10:32

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1272.D
Lab Smp Id: A1905-02DRE Client Smp ID: AOC3CTCP7RE
Inj Date : 21-JAN-2003 17:30
Operator : JC Inst ID: s2.i
Smp Info : A1905-02DRE,AOC3CTCP7RE,5197,JC,A1905
Misc Info : 0,,,2,,,,30.6,,,20-JAN-03,23-DEC-02
Comment   :
Method   : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\s2_8270C.m
Meth Date : 27-Jan-2003 11:54 mtl Quant Type: ISTD
Cal Date : 18-JAN-2003 12:56 Cal File: S2D1202.D
Als bottle: 38
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.600	Weight of sample extracted (g)
M	0.000	% Moisture

	ISTD	RT	AREA	AMOUNT
*	12 1,4-Dichlorobenzene-d4	7.748	215117	40.000
*	31 Naphthalene-d8	10.155	264408	40.000
*	48 Acenaphthene-d10	13.664	293721	40.000
*	64 Phenanthrene-d10	16.675	177979	40.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #

Data File: S2D1272.D
Report Date: 29-Jan-2003 10:32

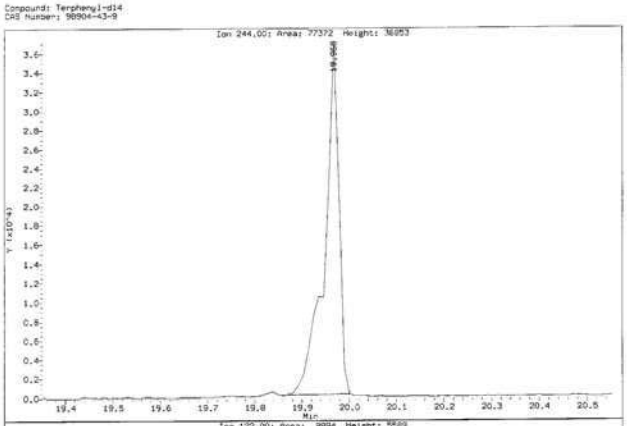
		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Straight-chain Alkane					CAS #:		
7.456	84149	15.6471130	510	0		0	12
Unknown					CAS #:		
7.867	295709	54.9857065	1800	0		0	12
Straight-chain Alkane					CAS #:		
8.881	221430	41.2110619	1300	0		0	12
Unknown					CAS #:		
9.238	72021	10.8954343	360	0		0	31
Unknown					CAS #:		
9.443	57540	8.70472906	280	0		0	31
Unknown					CAS #:		
9.605	61264	9.26810081	300	0		0	31
Unknown					CAS #:		
9.734	63284	9.57368315	310	0		0	31
Unknown					CAS #:		
9.810	54694	8.27418233	270	0		0	31
Straight-chain Alkane					CAS #:		
10.188	116936	17.6902363	580	0		0	31
Straight-chain Alkane					CAS #:		
14.648	76015	10.3520007	340	0		0	48
Straight-chain Alkane					CAS #:		
15.639	229065	50.5823721	1600	0		0	64
Straight-chain Alkane					CAS #:		
16.557	112569	25.2993893	830	0		0	64
Branched Alkane					CAS #:		
16.622	226328	50.8662258	1700	0		0	64
Straight-chain Alkane					CAS #:		
17.443	72071	16.1976413	530	0		0	64
Straight-chain Alkane					CAS #:		
18.273	87878	19.7501952	640	0		0	64

Data File: S2D1272.D
Report Date: 29-Jan-2003 10:32

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Branched Alkane					CAS #:		
18.856	76738	17.2465291	560	0		0	64
Straight-chain Alkane					CAS #:		
19.072	100536	22.5936768	740	0		0	64
Straight-chain Alkane					CAS #:		
19.849	105336	23.6693093	770	0		0	64

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1272.D
Injection Date: 21-JAN-2003 17:30
Instrument: s2.i
Client Sample ID: ADC3CTCP7

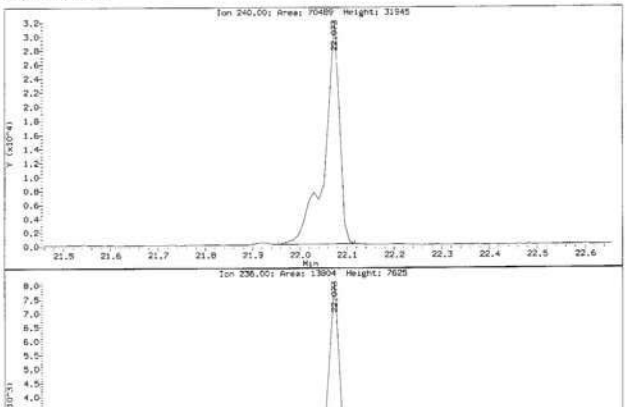
Compound: Terphenyl-d14
CAS Number: 98904-43-9



000822

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1272.D
Injection Date: 21-JAN-2003 17:30
Instrument: s2.i
Client Sample ID: ADC3CTCP7

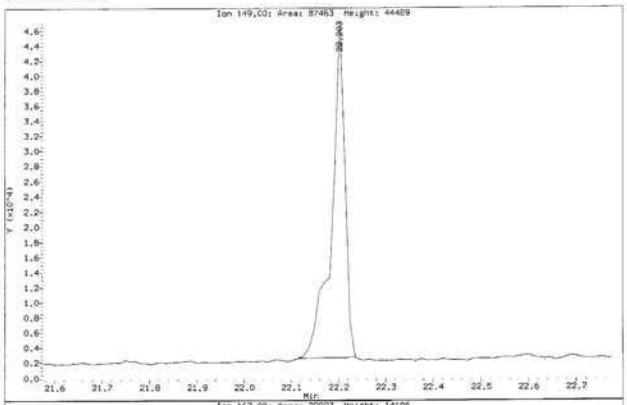
Compound: Chrysene-d12
CAS Number: 1719-03-5



000823

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1272.D
Injection Date: 21-JAN-2003 17:30
Instrument: s2.i
Client Sample ID: ADC3CTCP7

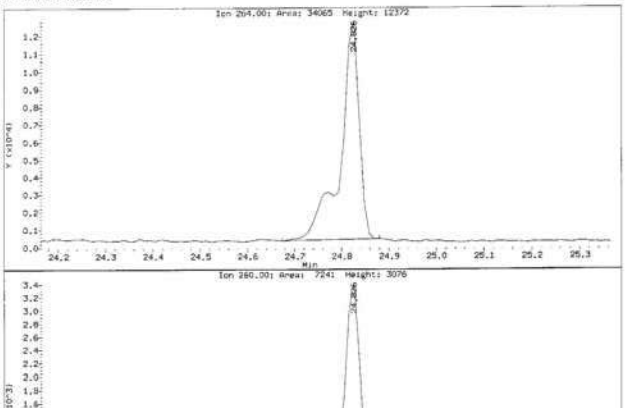
Compound: bis(2-Ethylhexyl)phthalate
CAS Number: 117-81-7



000824

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1272.D
Injection Date: 21-JAN-2003 17:30
Instrument: s2.i
Client Sample ID: ADC3CTCP7

Compound: Perylene-d12
CAS Number: 1520-96-3



000825

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030121.B\S2D1272.D

Date : 21-JAN-2003 17:30

Client ID: AOC3CTCP7RE

Instrument: s2.i

Sample Info: A1905-02DRE,AOC3CTCP7RE,5197,JC,A1905

Volume Injected (uL): 1.0

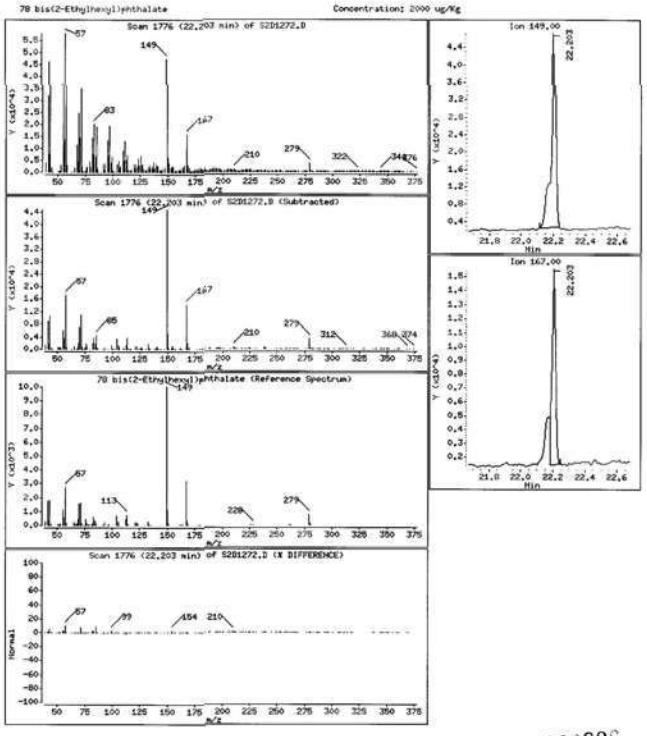
Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

78 bis(2-Ethylhexyl)phthalate

Concentration: 2000 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030121.B\S2D1272.D

Date : 21-JAN-2003 17:30

Client ID: AOC3CTCP7RE

Instrument: s2.i

Sample Info: A1905-02DRE,AOC3CTCP7RE,5197,JC,A1905

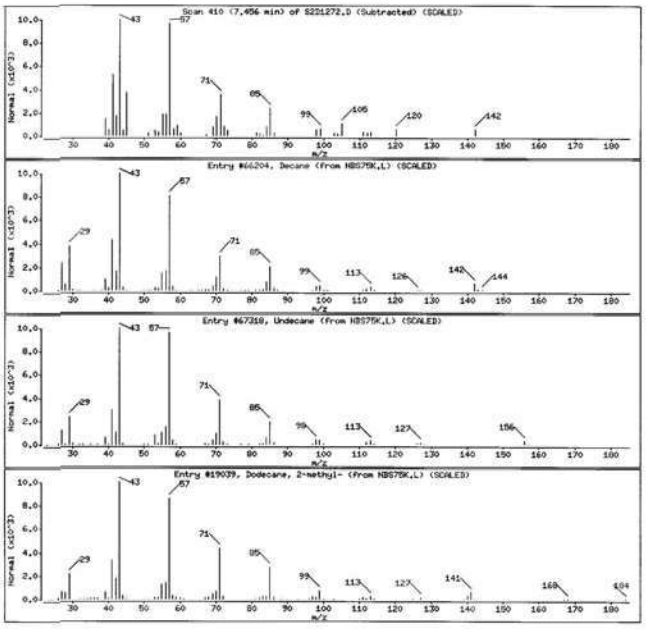
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Decane	124-18-5	NBS75K.L	66204	90	C10H22	142
Undecane	1120-21-4	NBS75K.L	67310	46	C11H24	156
Dodecane, 2-methyl-	1560-97-0	NBS75K.L	19039	43	C13H28	184



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030121.B\S2D1272.D

Date : 21-JAN-2003 17:30

Client ID: AOC3CTCP7RE

Instrument: s2.i

Sample Info: A1905-02DRE,AOC3CTCP7RE,5197,JC,A1905

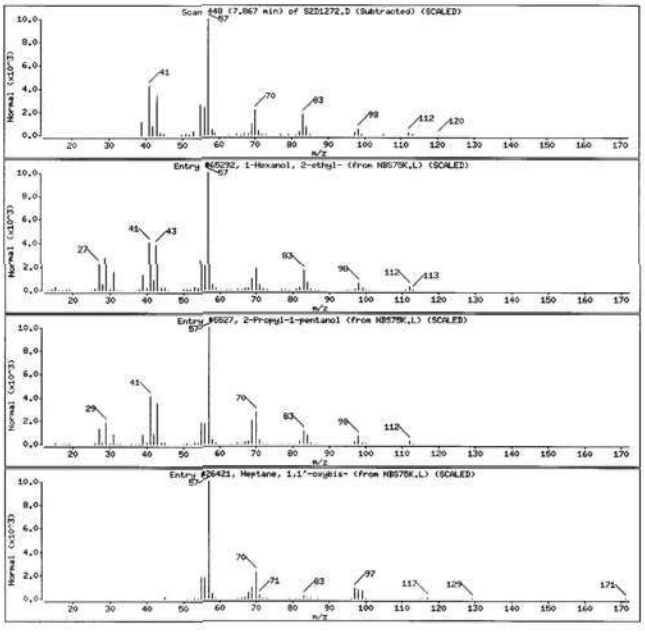
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Hexanol, 2-ethyl-	104-76-7	NBS75K.L	65292	83	C8H18O	130
2-Propyl-1-pentanol	58175-57-8	NBS75K.L	8527	64	C8H18O	130
Heptane, 1,1'-oxybis-	629-64-1	NBS75K.L	26421	64	C14H30O	214



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030121.B\S2D1272.D

Date : 21-JAN-2003 17:30

Client ID: AOC3CTCP7RE

Instrument: s2.i

Sample Info: A1905-02DRE,AOC3CTCP7RE,5197,JC,A1905

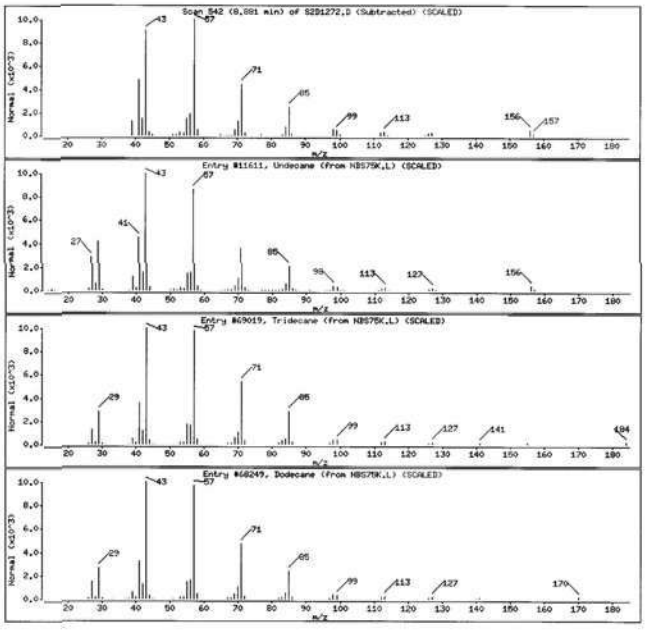
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Undecane	1120-21-4	NBS75K.L	11611	97	C11H24	156
Tridecane	629-50-5	NBS75K.L	69019	90	C13H28	184
Dodecane	112-40-3	NBS75K.L	68249	86	C12H26	170



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.1\030121.B\S2D1272.D

Date : 21-JAN-2003 17:30

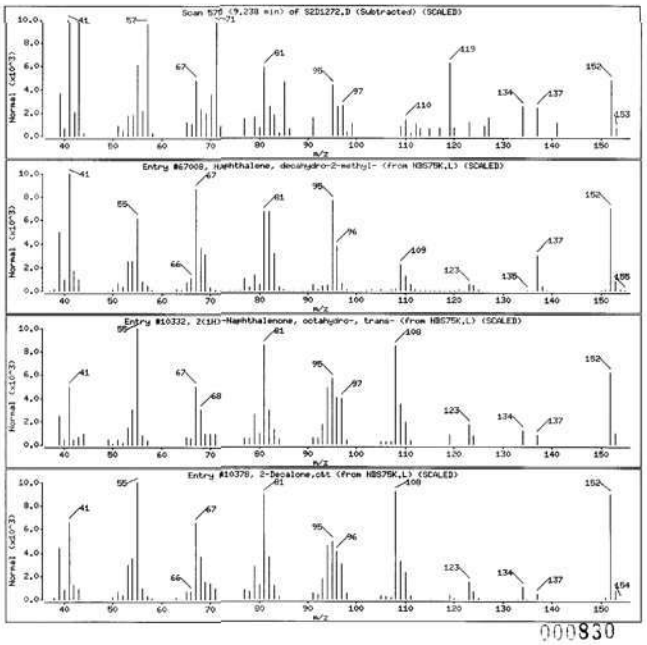
Client ID: AOC3CTCP7RE — Instrument: s2.1

Sample Info: A1905-02DRE,AOC3CTCP7RE,5197,JC,A1905

Volume Injected (uL): 1.0 — Operator: JC

Column phase: DB-5MS — Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Naphthalene, decahydro-2-methyl-	2958-76-1	NBS75K.L	67008	60	C11H20	152
2(1H)-Naphthalenone, octahydro-, trans-	16021-08-2	NBS75K.L	10332	59	C10H160	152
2-Decalone,c&t	4832-17-1	NBS75K.L	10378	38	C10H160	152



000830

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.1\030121.B\S2D1272.D

Date : 21-JAN-2003 17:30

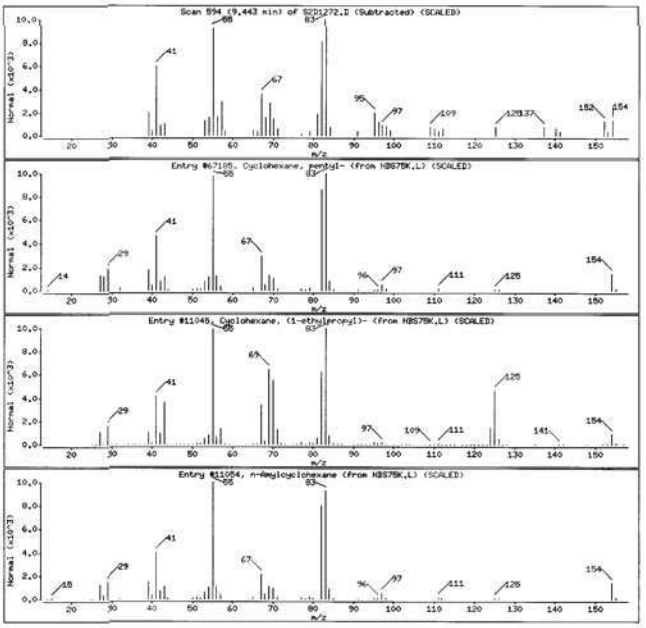
Client ID: AOC3CTCP7RE — Instrument: s2.1

Sample Info: A1905-02DRE,AOC3CTCP7RE,5197,JC,A1905

Volume Injected (uL): 1.0 — Operator: JC

Column phase: DB-5MS — Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexane, pentyl-	4292-92-6	NBS75K.L	67105	74	C11H22	154
Cyclohexane, (1-ethylpropyl)-	26321-98-2	NBS75K.L	11045	72	C11H22	154
n-Amylcyclohexane	2944-27-7	NBS75K.L	11054	68	C11H22	154



000831

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.1\030121.B\S2D1272.D

Date : 21-JAN-2003 17:30

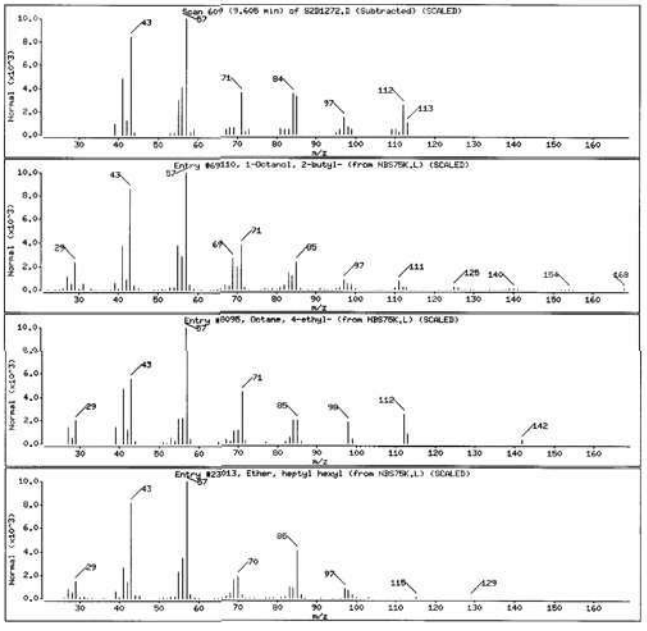
Client ID: AOC3CTCP7RE — Instrument: s2.1

Sample Info: A1905-02DRE,AOC3CTCP7RE,5197,JC,A1905

Volume Injected (uL): 1.0 — Operator: JC

Column phase: DB-5MS — Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Octanol, 2-butyl-	3913-02-8	NBS75K.L	69110	42	C12H260	186
Octane, 4-ethyl-	15869-86-0	NBS75K.L	8095	40	C10H22	142
Ether, heptyl hexyl	7289-40-9	NBS75K.L	23013	38	C13H280	200



000832

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.1\030121.B\S2D1272.D

Date : 21-JAN-2003 17:30

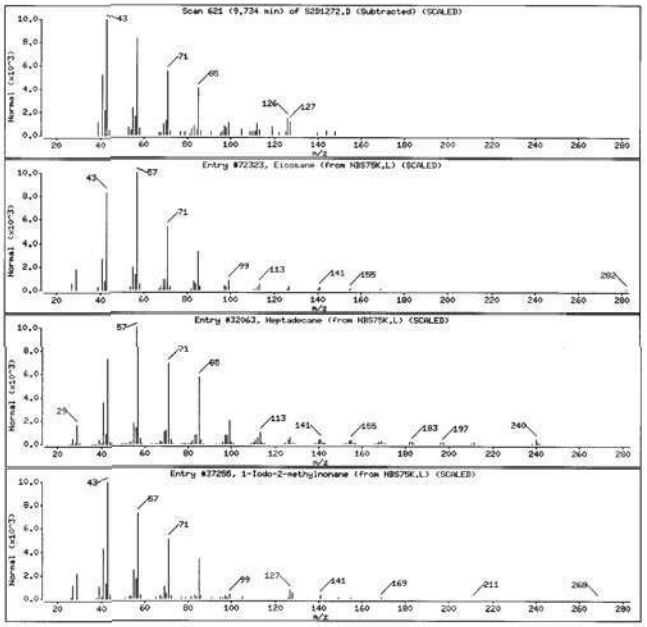
Client ID: AOC3CTCP7RE — Instrument: s2.1

Sample Info: A1905-02DRE,AOC3CTCP7RE,5197,JC,A1905

Volume Injected (uL): 1.0 — Operator: JC

Column phase: DB-5MS — Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Eicosane	112-95-8	NBS75K.L	72323	58	C20H42	282
Heptadecane	629-78-7	NBS75K.L	32063	58	C17H36	240
1-Iodo-2-methylnonane	0-00-0	NBS75K.L	37256	53	C10H21I	268



000833

Data File: \\AVOCADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1272.D

Date : 21-JAN-2003 17:30

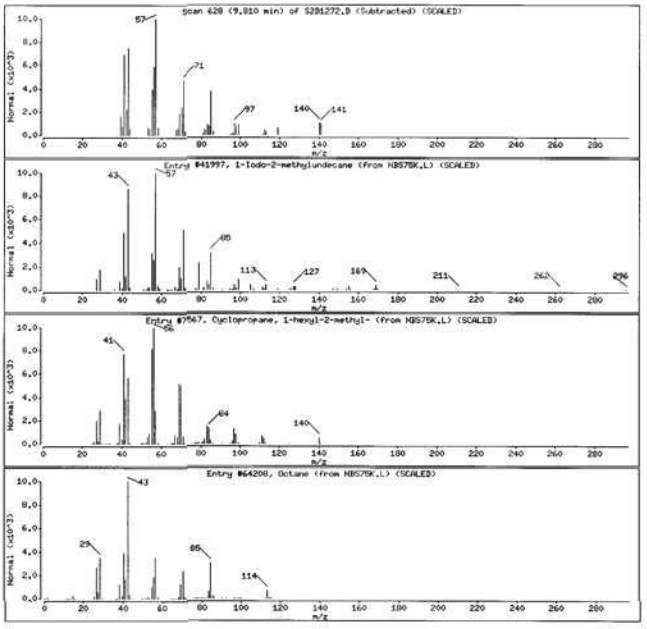
Client ID: AOC3CTCP7RE Instrument: s2.i

Sample Info: A1905-02DRE,AOC3CTCP7RE,5197,JC,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Iodo-2-methylundecane	73105-67-6	NBS75K.L	41997	50	C12H25I	296
Cyclopropane, 1-hexyl-2-methyl-	62238-09-9	NBS75K.L	7567	50	C10H20	140
Octane	111-65-9	NBS75K.L	64208	47	C8H18	114



000834

Data File: \\AVOCADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1272.D

Date : 21-JAN-2003 17:30

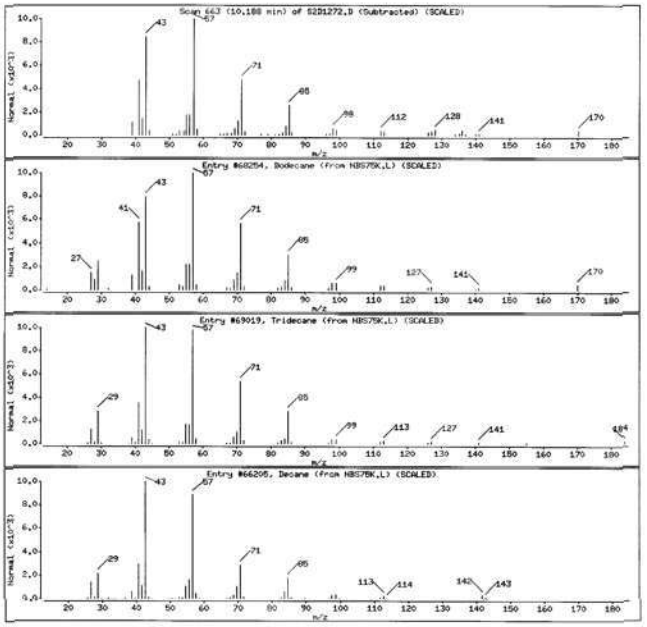
Client ID: AOC3CTCP7RE Instrument: s2.i

Sample Info: A1905-02DRE,AOC3CTCP7RE,5197,JC,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Dodecane	112-40-3	NBS75K.L	68254	96	C12H26	170
Tridecane	629-50-5	NBS75K.L	69019	80	C13H28	184
Decane	124-18-5	NBS75K.L	66206	72	C10H22	142



000835

Data File: \\AVOCADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1272.D

Date : 21-JAN-2003 17:30

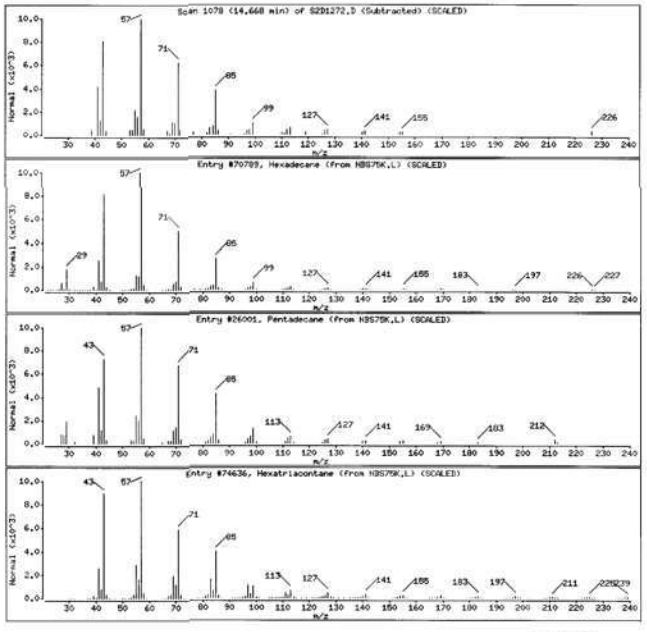
Client ID: AOC3CTCP7RE Instrument: s2.i

Sample Info: A1905-02DRE,AOC3CTCP7RE,5197,JC,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Hexadecane	544-76-3	NBS75K.L	70709	97	C16H34	226
Pentadecane	629-62-9	NBS75K.L	26001	91	C15H32	212
Hexatriacontane	630-06-8	NBS75K.L	74636	91	C36H74	507



000836

Data File: \\AVOCADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1272.D

Date : 21-JAN-2003 17:30

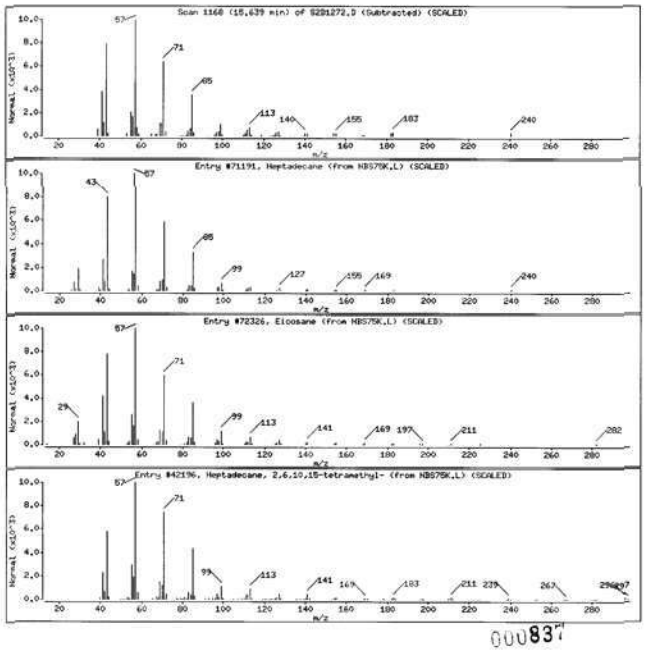
Client ID: AOC3CTCP7RE Instrument: s2.i

Sample Info: A1905-02IRE,AOC3CTCP7RE,5197,JC,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Heptadecane	629-78-7	NBS75K.L	71191	96	C17H36	240
Eicosane	112-95-8	NBS75K.L	72326	91	C20H42	282
Heptadecane, 2,6,10,15-tetramethyl-	54833-48-6	NBS75K.L	42196	90	C21H44	296



000837

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1272.D

Date : 21-JAN-2003 17:30

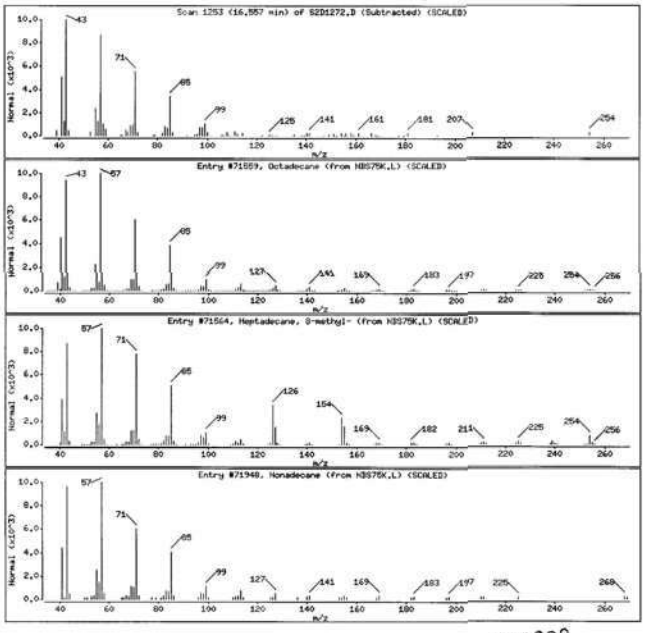
Client ID: AOC3CTCP7RE Instrument: s2.i

Sample Info: A1905-02DRE,AOC3CTCP7RE,5197,JC,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Octadecane	593-45-3	NBS75K.L	71869	87	C18H38	254
Heptadecane, 8-methyl-	13287-23-5	NBS75K.L	71864	86	C18H38	254
Nonadecane	629-92-5	NBS75K.L	71948	86	C19H40	268



000838

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1272.D

Date : 21-JAN-2003 17:30

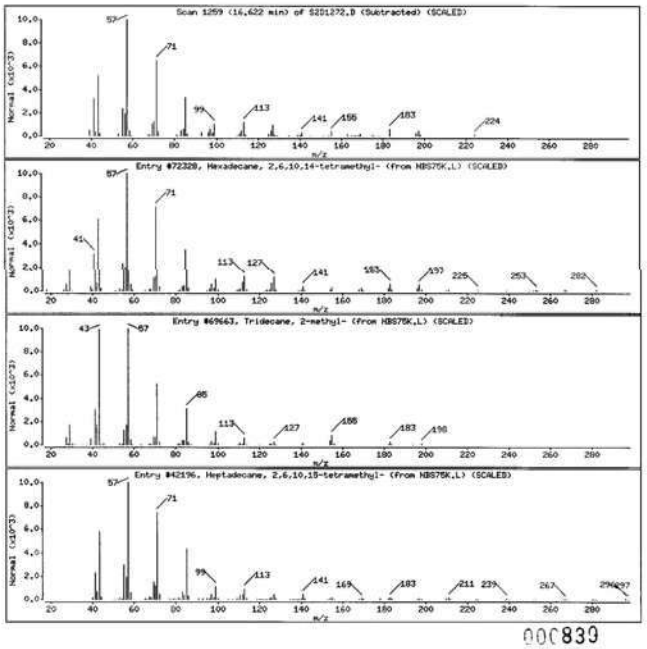
Client ID: AOC3CTCP7RE Instrument: s2.i

Sample Info: A1905-02DRE,AOC3CTCP7RE,5197,JC,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
Hexadecane, 2,6,10,14-tetramethyl-	638-36-8	NBS75K.L	72328	90	C20H42	282
Tridecane, 2-methyl-	1560-96-9	NBS75K.L	69663	83	C14H30	198
Heptadecane, 2,6,10,15-tetramethyl-	54833-48-6	NBS75K.L	42196	80	C21H44	296



000839

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1272.D

Date : 21-JAN-2003 17:30

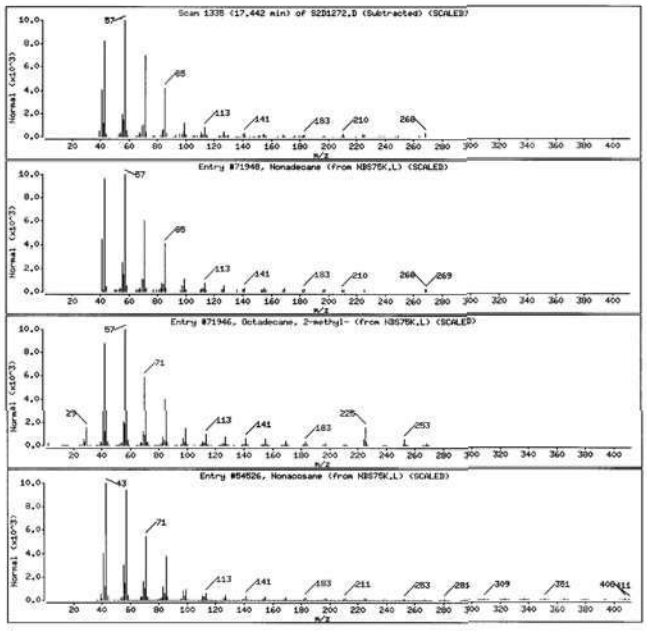
Client ID: AOC3CTCP7RE Instrument: s2.i

Sample Info: A1905-02DRE,AOC3CTCP7RE,5197,JC,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Nonadecane	629-92-5	NBS75K.L	71948	93	C19H40	268
Octadecane, 2-methyl-	1560-00-9	NBS75K.L	71946	90	C19H40	268
Nonacosane	630-03-5	NBS75K.L	54526	83	C29H60	408



000840

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1272.D

Date : 21-JAN-2003 17:30

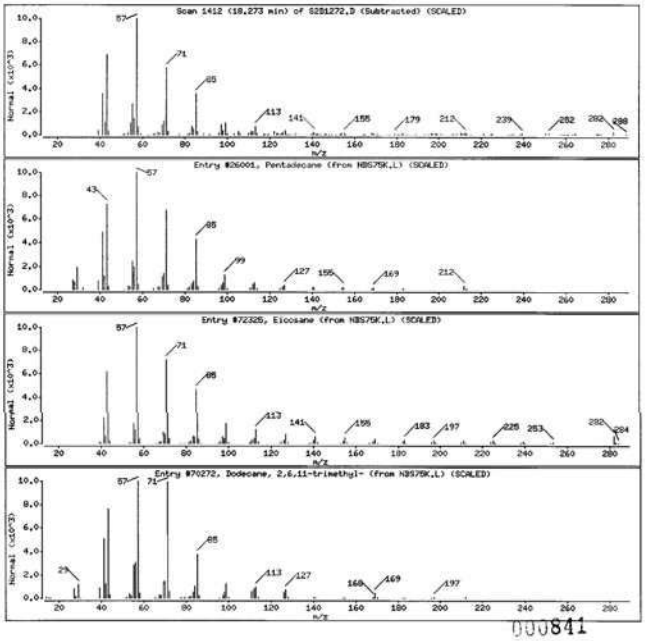
Client ID: AOC3CTCP7RE Instrument: s2.i

Sample Info: A1905-02DRE,AOC3CTCP7RE,5197,JC,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Pentadecane	629-62-9	NBS75K.L	26001	96	C15H32	212
Eicosane	112-95-8	NBS75K.L	72325	93	C20H42	282
Dodecane, 2,6,11-trimethyl-	31295-56-4	NBS75K.L	70272	87	C15H32	212



000841

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1272.D

Date : 21-JAN-2003 17:30

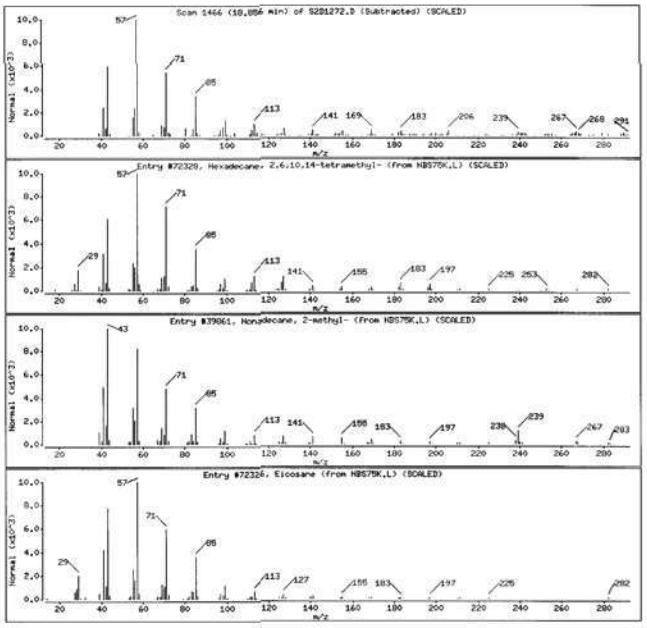
Client ID: AOC3CTCP7RE Instrument: s2.i

Sample Info: A1905-02DRE,AOC3CTCP7RE,5197,JC,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
Hexadecane, 2,6,10,14-tetramethyl-	638-36-8	NBS75K.L	72328	93	C20H42	282
Nonadecane, 2-methyl-	1560-86-7	NBS75K.L	39061	93	C20H42	282
Eicosane	112-95-8	NBS75K.L	72326	91	C20H42	282



000842

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1272.D

Date : 21-JAN-2003 17:30

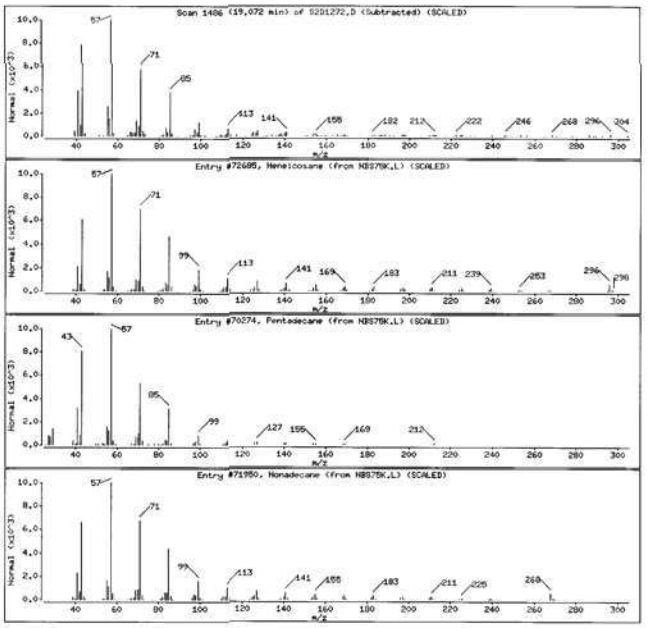
Client ID: AOC3CTCP7RE Instrument: s2.i

Sample Info: A1905-02DRE,AOC3CTCP7RE,5197,JC,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Heneicosane	629-94-7	NBS75K.L	72685	97	C21H44	296
Pentadecane	629-62-9	NBS75K.L	70274	94	C15H32	212
Nonadecane	629-92-5	NBS75K.L	71950	93	C19H40	268



000843

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1272.D

Date : 21-JAN-2003 17:30

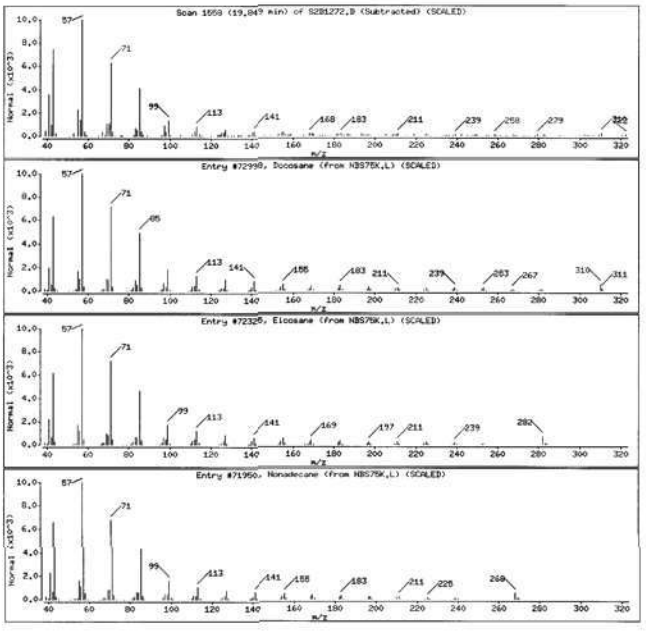
Client ID: AOC3CTCP7RE Instrument: s2.i

Sample Info: A1905-02DRE,AOC3CTCP7RE,5197,JC,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Docosane	629-97-0	NBS75K.L	72998	97	C22H46	310
Eicosane	112-95-8	NBS75K.L	72325	97	C20H42	282
Nonadecane	629-92-5	NBS75K.L	71950	95	C19H40	268



844

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC3CTCP8

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-03D

Sample wt/vol: 30.1 (g/mL) G Lab File ID: S2D0952

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 0 decanted: (Y/N) N Date Extracted: 12/24/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	670	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	670	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	670	U
83-32-9	Acenaphthene	330	U

FORM I SV-1 OLM03.0

000845

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP8

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-03D
Sample wt/vol: 30.1 (g/mL) G Lab File ID: S2D0952
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 0 decanted: (Y/N) N Date Extracted:12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	670	U
100-02-7	4-Nitrophenol	670	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	670	U
534-52-1	4,6-Dinitro-2-methylphenol	670	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	670	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	360	
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

000846

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3CTCP8

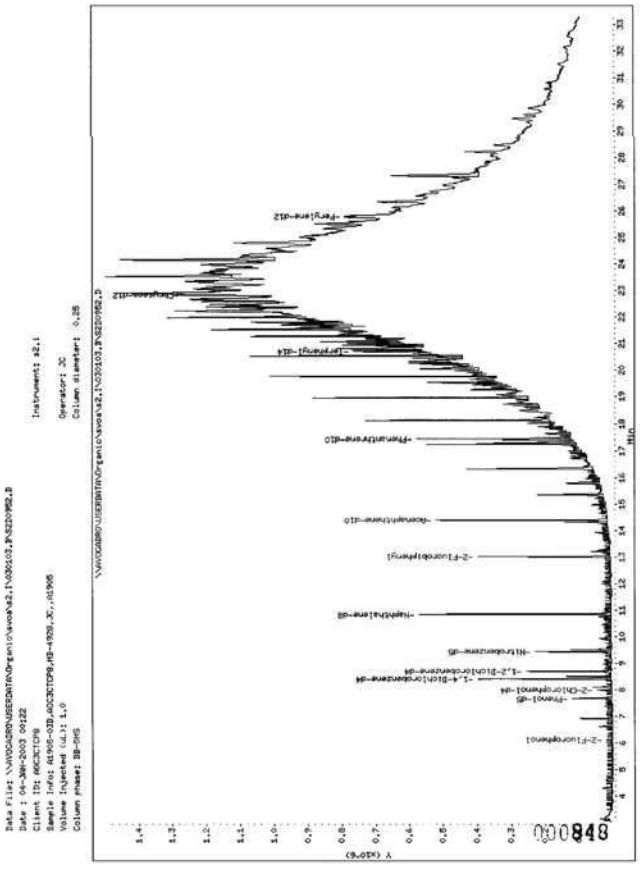
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-03D
Sample wt/vol: 30.1 (g/mL) G Lab File ID: S2D0952
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 9 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	20.06	890	J
2.		UNKNOWN	20.81	1000	J
3.		UNKNOWN	21.54	1700	J
4.		UNKNOWN	21.69	880	J
5.		UNKNOWN	22.23	1300	J
6.		UNKNOWN	22.39	800	J
7.		UNKNOWN	22.60	950	J
8.		UNKNOWN	23.53	1900	J
9.	36728-72-0	28-NOR-17.BETA.(H)-HOPANE	27.32	2100	NJ
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC OLM03.0

000847



000848

Data File: S2D0952.D
Report Date: 29-Jan-2003 09:44

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0952.D
Lab Smp Id: A1905-03D Client Smp ID: AOC3CTCP8
Inj Date : 04-JAN-2003 00:22
Operator : JC Inst ID: s2.i
Smp Info : A1905-03D,AOC3CTCP8,MB-4928,JC,,A1905
Misc Info : 0,,,1,,,,30.1,,,24-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\s2_8270C.m
Meth Date : 24-Jan-2003 13:27 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.100	Weight of sample extracted (g)
M	0.000	% Moisture

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
S 3 2-Fluorophenol	112	6.120	6.106	(0.727)	10072	2.39888	80(aR)
S 5 Phenol-d5	99	7.696	7.693	(0.914)	70674	13.1819	440(R)
S 9 2-Chlorophenol-d4	132	7.987	7.973	(0.943)	19556	4.49426	150(aR)
* 12 1,4-Dichlorobenzene-d4	152	8.419	8.405	(1.000)	116685	40.0000	(Q)
S 14 1,2-Dichlorobenzene-d4	152	8.700	8.686	(1.033)	71824	28.6208	950
S 22 Nitrobenzene-d5	82	9.445	9.431	(0.871)	106389	27.3426	910
* 31 Naphthalene-d8	136	10.848	10.845	(1.000)	403206	40.0000	
S 41 2-Fluorobiphenyl	172	13.029	13.015	(0.905)	222560	32.1080	1100
* 48 Acenaphthene-d10	164	14.400	14.386	(1.000)	205397	40.0000	
* 64 Phenanthrene-d10	188	17.433	17.419	(1.000)	288960	40.0000	
S 72 Terphenyl-d14	244	20.715	20.690	(0.906)	130103	47.2760	1600
* 76 Chrysene-d12	240	22.852	22.827	(1.000)	118455	40.0000	
78 bis(2-Ethylhexyl)phthalate	149	22.917	22.892	(1.003)	28448	10.9210	360

000849

Data File: S2D0952.D
Report Date: 29-Jan-2003 09:44

Compounds	QUANT #76 MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ng/Kg)
* 80 Perylene-d12	264	35.931	35.764	(1.000)	65863	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

1/24/03

Data File: S2D0952.D
Report Date: 29-Jan-2003 09:44

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0952.D
Lab Smp Id: A1905-03D Client Smp ID: AOC3CTCP8
Inj Date : 04-JAN-2003 00:22
Operator : JC Inst ID: s2.i
Smp Info : A1905-03D,AOC3CTCP8,MB-4928,JC,,A1905
Misc Info : 0,,,1,,,,30.1,,,24-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\s2_8270C.m
Meth Date : 24-Jan-2003 13:27 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.100	Weight of sample extracted (g)
M	0.000	% Moisture

ISTD	RT	AREA	AMOUNT
* 64 Phenanthrene-d10	17.433	728944	40.000

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	LIBRARY	QUANT LIB ENTRY	CMPD #
Straight-Chain Alkane					CAS #:		
16.331	819033	46.0398604		1900	0	0	64
Straight-Chain Alkane					CAS #:		
17.280	686249	37.6571588		1300	0	0	64

Data File: S2D0952.D
Report Date: 29-Jan-2003 09:44

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	LIBRARY	QUANT LIB ENTRY	CMPD #
Straight-Chain Alkane					CAS #:		
17.504	666439	36.3755816		800	0	0	64
Straight-Chain Alkane					CAS #:		
18.124	486695	46.6017882		1600	0	0	64
Straight-Chain Alkane					CAS #:		
18.966	1156436	63.1065510		2100	0	0	64
Straight-Chain Alkane					CAS #:		
19.776	1017492	55.6337580		1900	0	0	64
Unknown					CAS #:		
20.064	489220	26.6484092		890	0	0	64
Straight-Chain Alkane					CAS #:		
20.862	1692210	37.7255676		1900	0	0	64
Unknown					CAS #:		
20.812	575759	31.3746512		1000	0	0	64
Straight Chain Alkane					CAS #:		
21.274	484905	26.5424617		1700	0	0	64
Unknown					CAS #:		
21.535	914563	50.1667863		1700	0	0	64
Unknown					CAS #:		
21.696	482666	26.4654755		860	0	0	64
Branched Alkane					CAS #:		
21.806	619468	26.9482478		950	0	0	64
Straight-Chain Alkane					CAS #:		
21.969	660752	36.2240329		1200	0	0	64
Unknown					CAS #:		
22.296	701615	38.4711260		1300	0	0	64
Unknown					CAS #:		
22.388	441750	24.2131083		800	0	0	64
Unknown					CAS #:		
22.604	618977	34.0762859		980	0	0	64

Data File: S2D0952.D
Report Date: 29-Jan-2003 09:44

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	LIBRARY	QUANT LIB ENTRY	CMPD #
Unknown					CAS #:		
23.532	1859257	58.1515513		1900	0	0	64
Branched Alkane					CAS #:		
24.151	1956913	96.3537960		5200	0	0	64
25-Nor-17.beta.(H)-hopane					CAS #: 16728-72-0		
27.302	1131541	62.0520674		3100	83	NIST95K.L	53777	64

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030103.B\S2D0952.D

Date : 04-JAN-2003 00:22

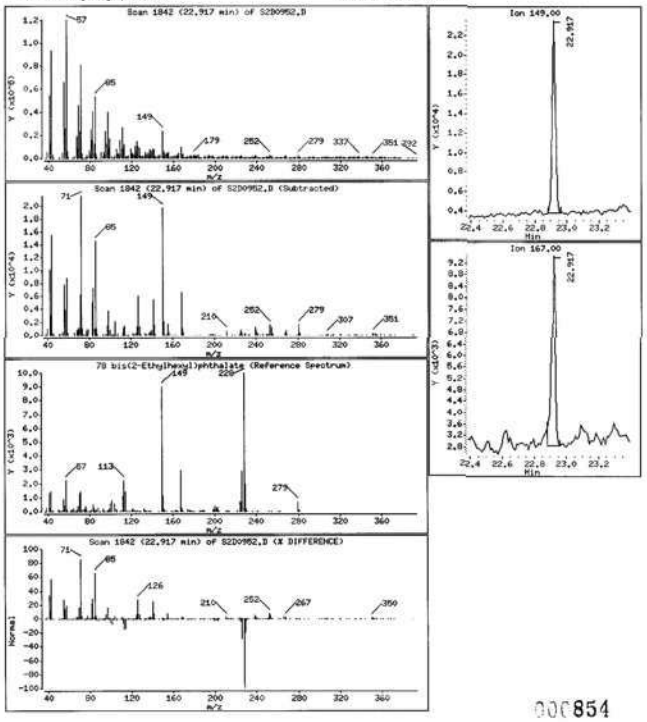
Client ID: AOC3CTCP8 Instrument: s2.i

Sample Info: A1905-03B,AOC3CTCP8,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

78 bis(2-Ethylhexyl)phthalate Concentration: 360 ug/Kg



000854

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030103.B\S2D0952.D

Date : 04-JAN-2003 00:22

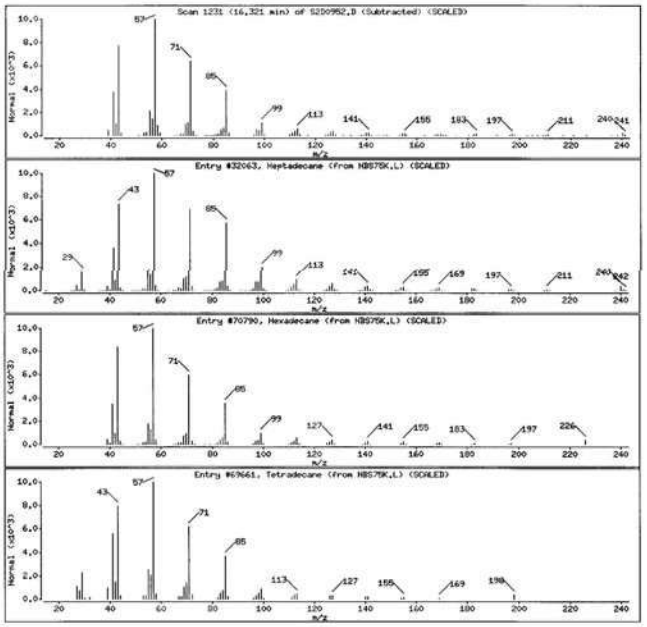
Client ID: AOC3CTCP8 Instrument: s2.i

Sample Info: A1905-03B,AOC3CTCP8,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Heptadecane	629-78-7	NBS75K.L	32063	96	C17H36	240
Hexadecane	544-76-3	NBS75K.L	70790	95	C16H34	226
Tetradecane	629-59-4	NBS75K.L	69661	94	C14H30	198



000855

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030103.B\S2D0952.D

Date : 04-JAN-2003 00:22

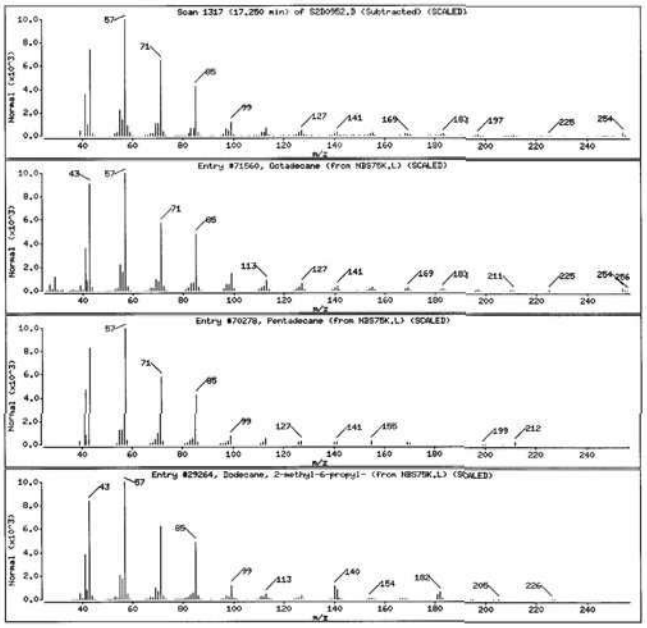
Client ID: AOC3CTCP8 Instrument: s2.i

Sample Info: A1905-03B,AOC3CTCP8,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Octadecane	593-45-3	NBS75K.L	71560	98	C18H38	254
Pentadecane	629-62-9	NBS75K.L	70278	94	C15H32	212
Dodecane, 2-methyl-6-propyl-	55045-08-4	NBS75K.L	29264	93	C16H34	226



000856

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030103.B\S2D0952.D

Date : 04-JAN-2003 00:22

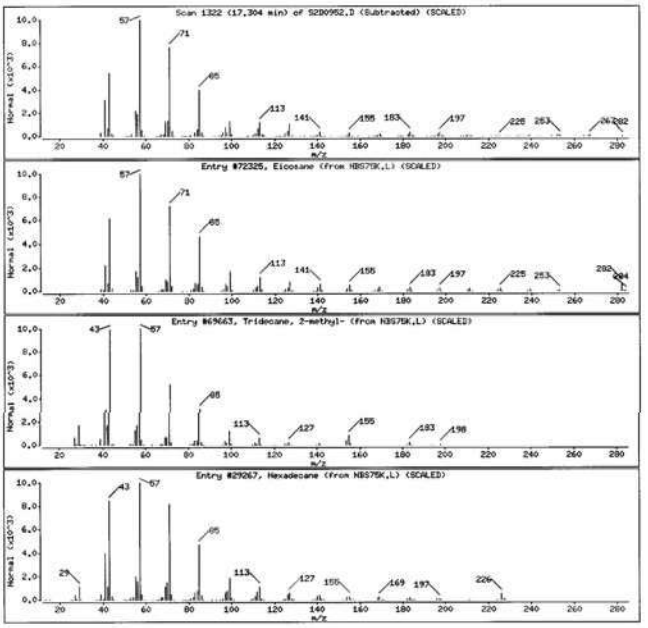
Client ID: AOC3CTCP8 Instrument: s2.i

Sample Info: A1905-03B,AOC3CTCP8,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Eicosane	112-95-8	NBS75K.L	72325	93	C20H42	282
Tridecane, 2-methyl-	1560-96-9	NBS75K.L	69663	90	C14H30	198
Hexadecane	544-76-3	NBS75K.L	29267	87	C16H34	226



000857

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030103.B\SZD0952.D

Date : 04-JAN-2003 00:22

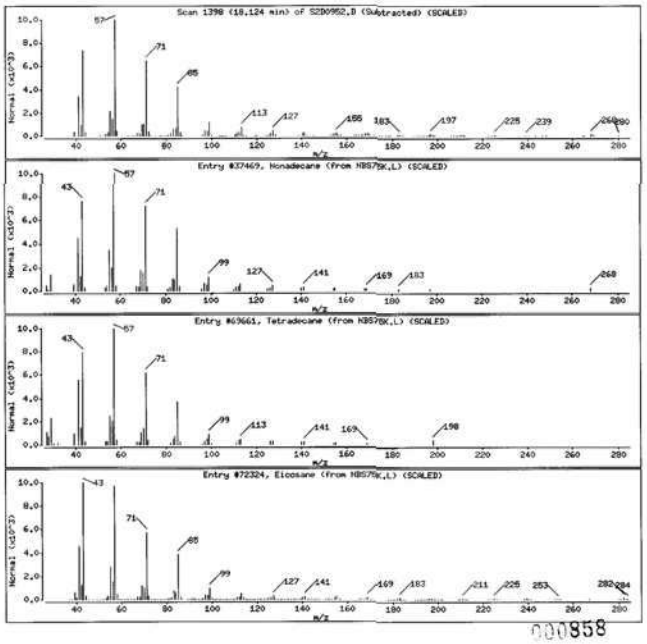
Client ID: AOC3CTCP8 Instrument: s2.i

Sample Info: A1905-03D,AOC3CTCP8,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Nonadecane	629-92-5	NBS75K.L	37469	96	C19H40	268
Tetradecane	629-59-4	NBS75K.L	69661	93	C14H30	198
Eicosane	112-95-8	NBS75K.L	72324	91	C20H42	282



000858

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030103.B\SZD0952.D

Date : 04-JAN-2003 00:22

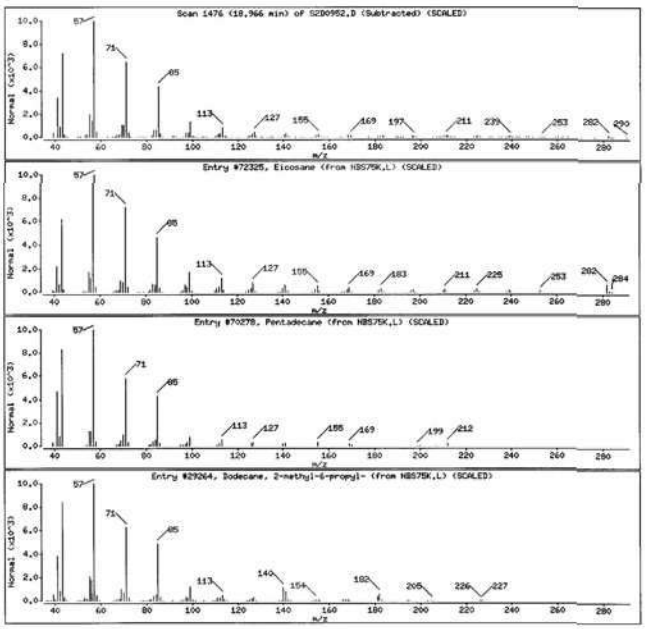
Client ID: AOC3CTCP8 Instrument: s2.i

Sample Info: A1905-03D,AOC3CTCP8,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Eicosane	112-95-8	NBS75K.L	72325	97	C20H42	282
Pentadecane	629-62-9	NBS75K.L	70278	94	C15H32	212
Dodecane, 2-methyl-6-propyl-	85645-08-4	NBS75K.L	29264	93	C16H34	226



000859

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030103.B\SZD0952.D

Date : 04-JAN-2003 00:22

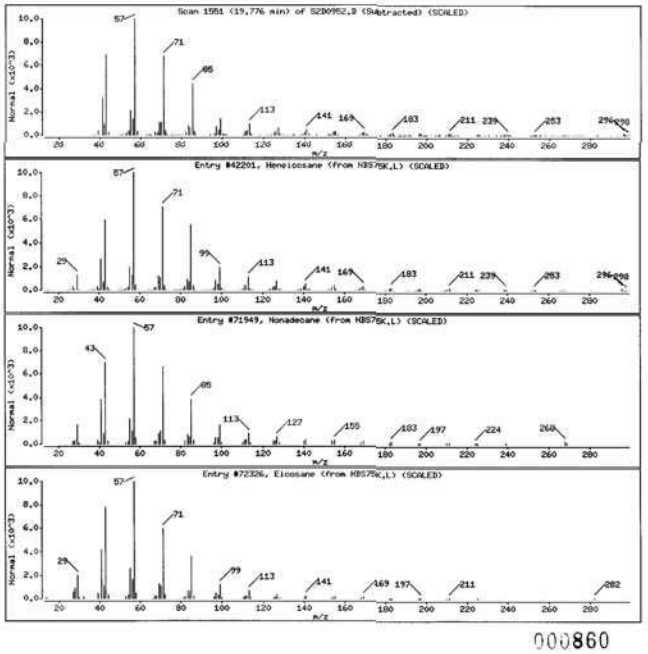
Client ID: AOC3CTCP8 Instrument: s2.i

Sample Info: A1905-03D,AOC3CTCP8,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Heneicosane	629-94-7	NBS75K.L	42201	99	C21H44	296
Nonadecane	629-92-5	NBS75K.L	71949	96	C19H40	268
Eicosane	112-95-8	NBS75K.L	72326	91	C20H42	282



000860

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030103.B\SZD0952.D

Date : 04-JAN-2003 00:22

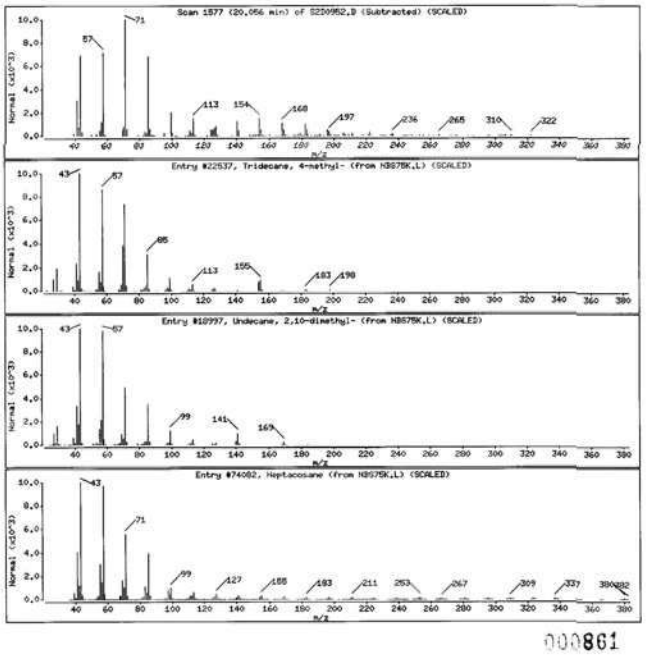
Client ID: AOC3CTCP8 Instrument: s2.i

Sample Info: A1905-03D,AOC3CTCP8,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Tridecane, 4-methyl-	26730-12-1	NBS75K.L	22537	72	C14H30	198
Undecane, 2,10-dimethyl-	17301-27-8	NBS75K.L	10997	69	C13H28	184
Heptacosane	593-49-7	NBS75K.L	74082	69	C27H56	380



000861

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030103,B\S2D0952,D

Date : 04-JAN-2003 00:22

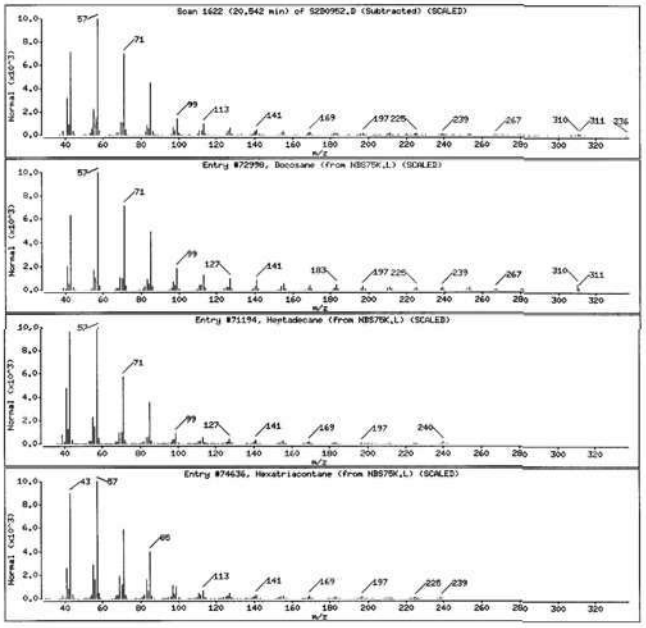
Client ID: AOC3CTCP8 Instrument: s2.i

Sample Info: A1905-03D,AOC3CTCP8,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Docosane	629-97-0	NBS75K.L	72998	97	C22H46	310
Heptadecane	629-78-7	NBS75K.L	71194	93	C17H36	240
Hexatriacontane	630-06-8	NBS75K.L	74636	91	C36H74	507



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030103,B\S2D0952,D

Date : 04-JAN-2003 00:22

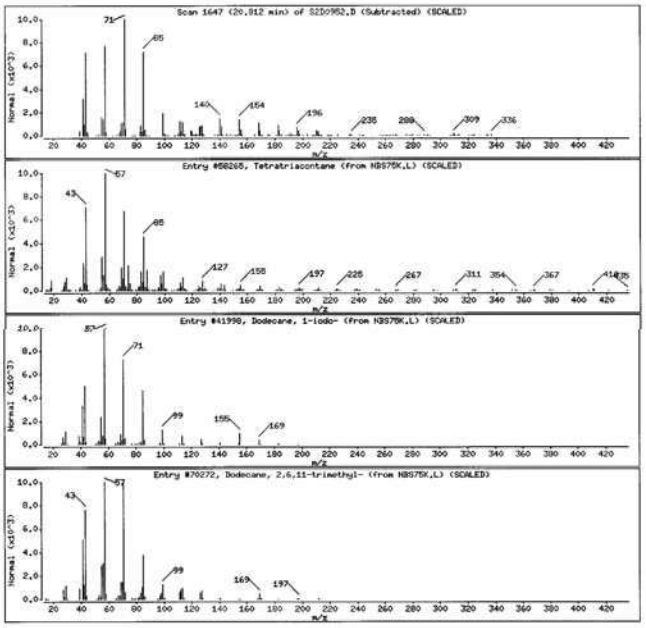
Client ID: AOC3CTCP8 Instrument: s2.i

Sample Info: A1905-03D,AOC3CTCP8,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Tetratriacontane	14167-59-0	NBS75K.L	58265	59	C34H70	479
Dodecane, 1-iodo-	4292-19-7	NBS75K.L	41998	59	C12H25I	296
Dodecane, 2,6,11-trimethyl-	31295-56-4	NBS75K.L	70272	53	C15H32	212



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030103,B\S2D0952,D

Date : 04-JAN-2003 00:22

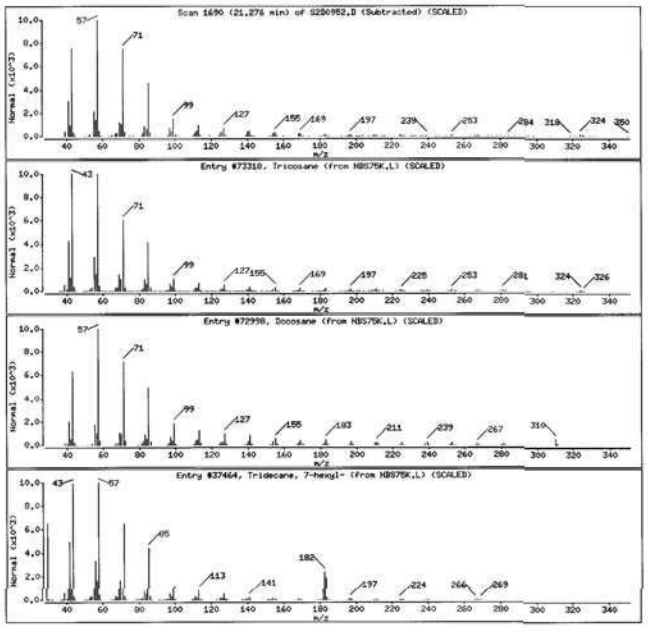
Client ID: AOC3CTCP8 Instrument: s2.i

Sample Info: A1905-03D,AOC3CTCP8,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Tricosane	638-67-5	NBS75K.L	73318	99	C23H48	324
Docosane	629-97-0	NBS75K.L	72998	97	C22H46	310
Tridecane, 7-hexyl-	7225-66-3	NBS75K.L	37464	93	C19H40	268



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030103,B\S2D0952,D

Date : 04-JAN-2003 00:22

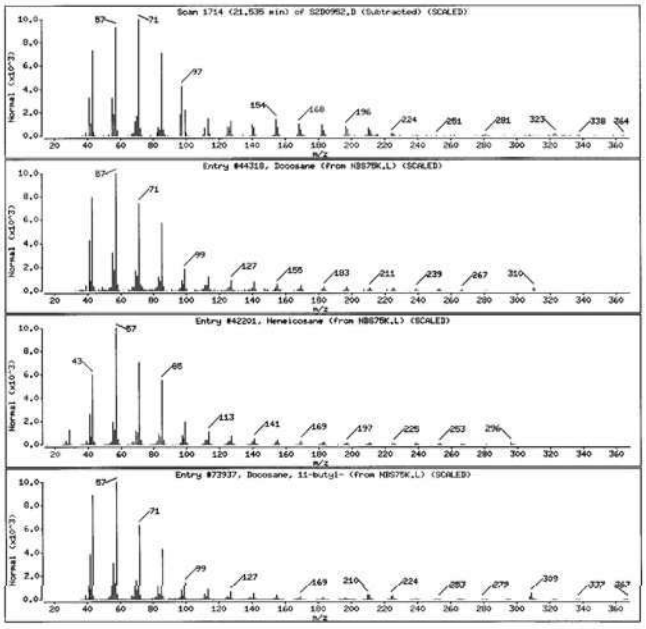
Client ID: AOC3CTCP8 Instrument: s2.i

Sample Info: A1905-03D,AOC3CTCP8,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Docosane	629-97-0	NBS75K.L	44318	52	C22H46	310
Heneicosane	629-94-7	NBS75K.L	42201	52	C21H44	296
Docosane, 11-butyl-	13475-76-8	NBS75K.L	73937	52	C26H54	366



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2,I\030103,B\SZD0952,D

Date : 04-JAN-2003 00:22

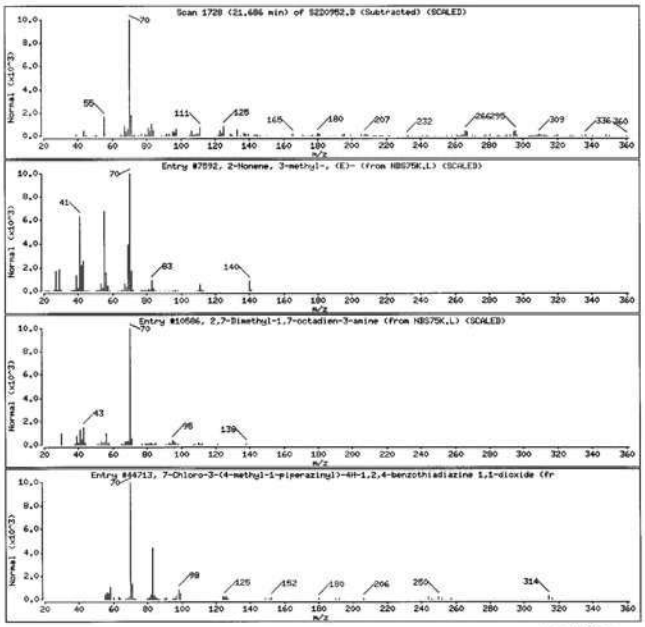
Client ID: AOC3CTCP8 Instrument: s2.i

Sample Info: A1905-03D,AOC3CTCP8,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Honene, 3-methyl-, (E)-	17003-99-5	NBS75K.L	7592	40	C10H20	140
2,7-Dimethyl-1,7-octadien-3-amine	77984-67-7	NBS75K.L	10586	40	C10H19N	153
7-Chloro-3-(4-methyl-1-piperazinyl)-4H-1	59943-31-6	NBS75K.L	44713	33	C12H15ClN4O2S1	



000866

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2,I\030103,B\SZD0952,D

Date : 04-JAN-2003 00:22

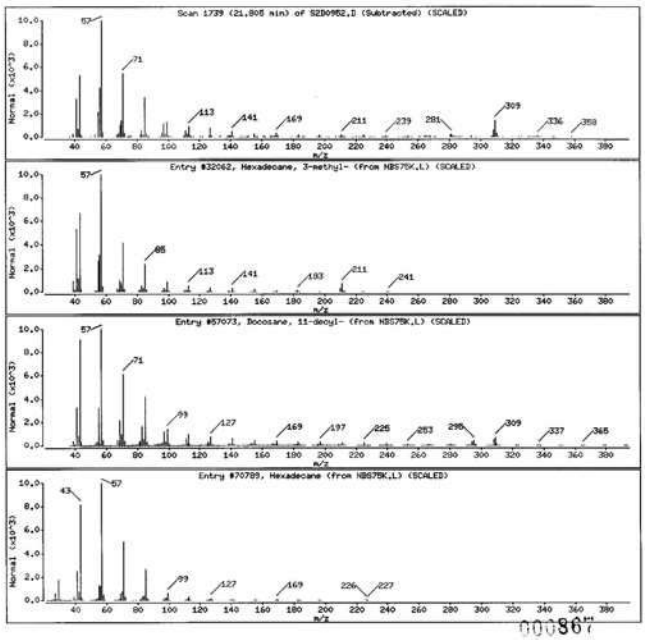
Client ID: AOC3CTCP8 Instrument: s2.i

Sample Info: A1905-03D,AOC3CTCP8,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
Hexadecane, 3-methyl-	6418-43-5	NBS75K.L	32062	90	C17H36	240
Docosane, 11-decyl-	55401-56-3	NBS75K.L	57073	62	C32H66	451
Hexadecane	544-76-3	NBS75K.L	70789	60	C16H34	226



000867

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2,I\030103,B\SZD0952,D

Date : 04-JAN-2003 00:22

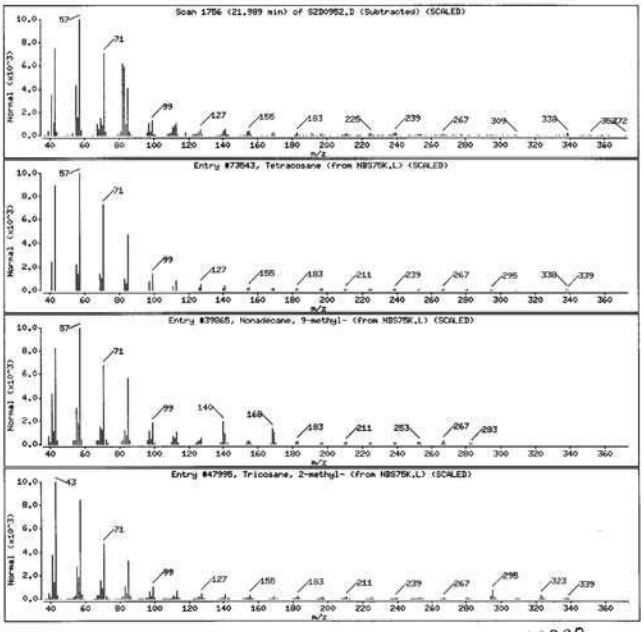
Client ID: AOC3CTCP8 Instrument: s2.i

Sample Info: A1905-03D,AOC3CTCP8,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-Chain Alkane						
Tetracosane	646-31-1	NBS75K.L	73543	98	C24H50	338
Nonadecane, 9-methyl-	13287-24-6	NBS75K.L	39065	78	C20H42	282
Tricosane, 2-methyl-	1928-30-9	NBS75K.L	47995	64	C24H50	338



000868

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2,I\030103,B\SZD0952,D

Date : 04-JAN-2003 00:22

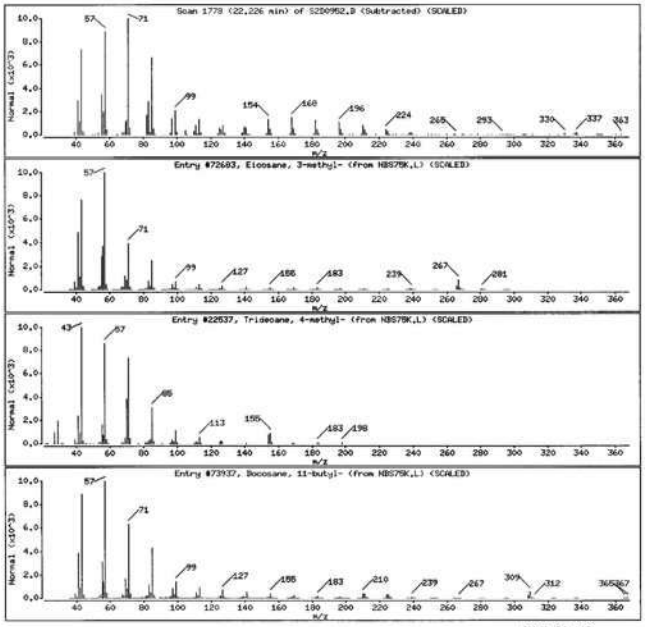
Client ID: AOC3CTCP8 Instrument: s2.i

Sample Info: A1905-03D,AOC3CTCP8,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Eicosane, 3-methyl-	6418-44-9	NBS75K.L	72683	76	C21H44	296
Tridecane, 4-methyl-	26730-12-1	NBS75K.L	22537	74	C14H30	198
Docosane, 11-butyl-	13475-76-8	NBS75K.L	73937	72	C26H54	366



000869

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2,I\030103,B\S2D0952,D

Date : 04-JAN-2003 00:22

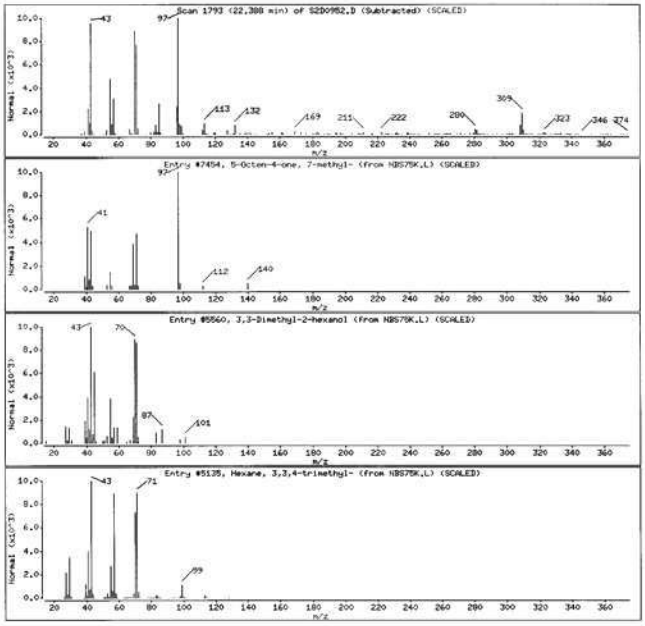
Client ID: AOC3CTCP8 Instrument: s2.i

Sample Info: A1905-03D,AOC3CTCP8,HB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
5-Octen-4-one, 7-methyl-	32064-78-1	NBS75K,L	7454	38	C9H16O	140
3,3-Dimethyl-2-hexanol	22025-20-3	NBS75K,L	8560	32	C8H18O	130
Hexane, 3,3,4-trimethyl-	16747-31-2	NBS75K,L	5135	32	C9H20	128



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2,I\030103,B\S2D0952,D

Date : 04-JAN-2003 00:22

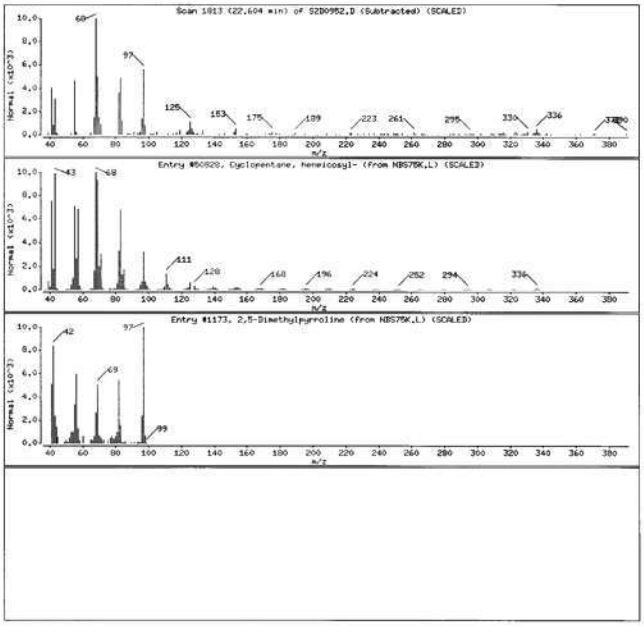
Client ID: AOC3CTCP8 Instrument: s2.i

Sample Info: A1905-03D,AOC3CTCP8,HB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclopentane, heneicosyl-	6703-82-8	NBS75K,L	60828	42	C26H52	364
2,5-Dimethylpyrroline	0-00-0	NBS75K,L	1173	30	C6H11N	97



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2,I\030103,B\S2D0952,D

Date : 04-JAN-2003 00:22

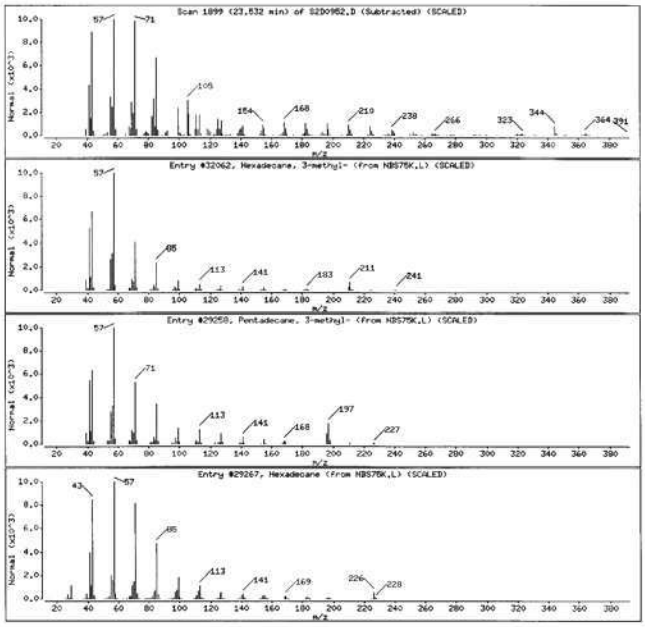
Client ID: AOC3CTCP8 Instrument: s2.i

Sample Info: A1905-03D,AOC3CTCP8,HB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Hexadecane, 3-methyl-	6418-43-5	NBS75K,L	32062	76	C17H36	240
Pentadecane, 3-methyl-	2882-96-4	NBS75K,L	29258	76	C16H34	226
Hexadecane	544-76-3	NBS75K,L	29267	70	C16H34	226



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2,I\030103,B\S2D0952,D

Date : 04-JAN-2003 00:22

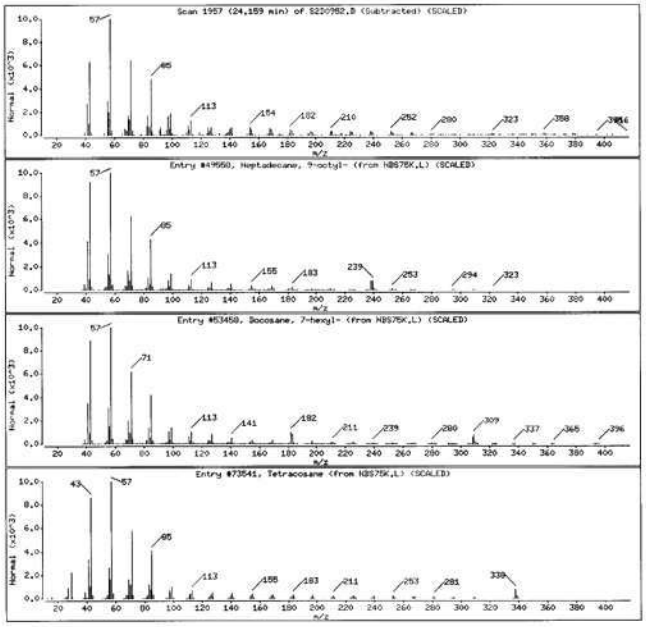
Client ID: AOC3CTCP8 Instrument: s2.i

Sample Info: A1905-03D,AOC3CTCP8,HB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
Heptadecane, 9-octyl-	7225-64-1	NBS75K,L	49558	94	C25H52	352
Docosane, 7-hexyl-	55373-86-9	NBS75K,L	53458	93	C28H58	394
Tetracosane	646-31-1	NBS75K,L	73541	93	C24H50	338



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0952.D

Date : 04-JAN-2003 00:22

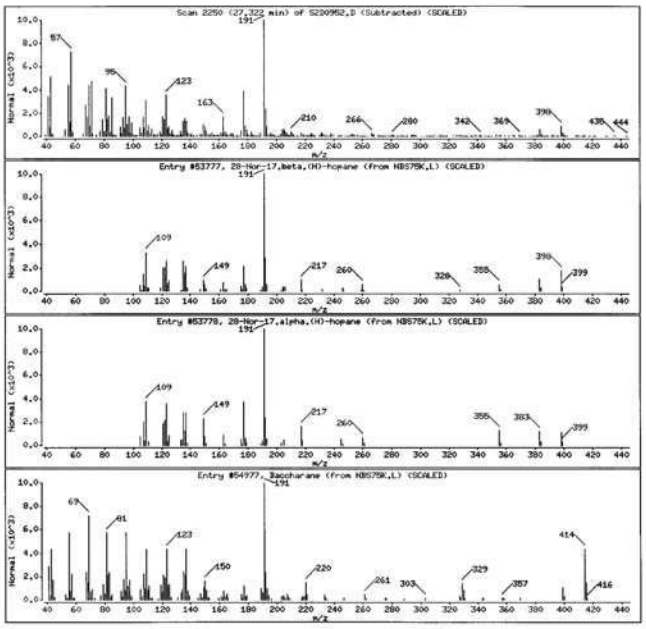
Client ID: AOC3CTCP8 Instrument: s2.i

Sample Info: A1905-03D,AOC3CTCP8,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
28-Nor-17.beta.(H)-hopane	36720-72-0	NBS75K.L	53777	89	C29H50	398
28-Nor-17.alpha.(H)-hopane	53584-60-4	NBS75K.L	53778	41	C29H50	398
Baccharane	36441-74-4	NBS75K.L	54977	38	C30H54	414



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC3CTCP8RE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-03DRE

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S2D1273

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/20/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	320	U
111-44-4	bis(2-Chloroethyl)Ether	320	U
95-57-8	2-Chlorophenol	320	U
541-73-1	1,3-Dichlorobenzene	320	U
106-46-7	1,4-Dichlorobenzene	320	U
95-50-1	1,2-Dichlorobenzene	320	U
95-48-7	2-Methylphenol	320	U
108-60-1	2,2'-oxybis(1-Chloropropane)	320	U
106-44-5	4-Methylphenol	320	U
621-64-7	N-Nitroso-di-n-propylamine	320	U
67-72-1	Hexachloroethane	320	U
98-95-3	Nitrobenzene	320	U
78-59-1	Isophorone	320	U
88-75-5	2-Nitrophenol	320	U
105-67-9	2,4-Dimethylphenol	320	U
120-83-2	2,4-Dichlorophenol	320	U
120-82-1	1,2,4-Trichlorobenzene	320	U
91-20-3	Naphthalene	320	U
106-47-8	4-Chloroaniline	320	U
111-91-1	bis(2-Chloroethoxy)methane	320	U
87-68-3	Hexachlorobutadiene	320	U
59-50-7	4-Chloro-3-Methylphenol	320	U
91-57-6	2-Methylnaphthalene	320	U
77-47-4	Hexachlorocyclopentadiene	320	U
88-06-2	2,4,6-Trichlorophenol	320	U
95-95-4	2,4,5-Trichlorophenol	660	U
91-58-7	2-Chloronaphthalene	320	U
88-74-4	2-Nitroaniline	660	U
131-11-3	Dimethylphthalate	320	U
208-96-8	Acenaphthylene	320	U
606-20-2	2,6-Dinitrotoluene	320	U
99-09-2	3-Nitroaniline	660	U
83-32-9	Acenaphthene	320	U

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC3CTCP8RE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-03DRE

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S2D1273

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/20/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	660	U
100-02-7	4-Nitrophenol	660	U
132-64-9	Dibenzofuran	320	U
121-14-2	2,4-Dinitrotoluene	320	U
84-66-2	Diethylphthalate	320	U
7005-72-3	4-Chlorophenyl-phenylether	320	U
86-73-7	Fluorene	320	U
100-01-6	4-Nitroaniline	660	U
534-52-1	4,6-Dinitro-2-methylphenol	660	U
86-30-6	N-Nitrosodiphenylamine (1)	320	U
101-55-3	4-Bromophenyl-phenylether	320	U
118-74-1	Hexachlorobenzene	320	U
87-86-5	Pentachlorophenol	660	U
85-01-8	Phenanthrene	320	U
120-12-7	Anthracene	320	U
86-74-8	Carbazole	320	U
84-74-2	Di-n-butylphthalate	320	U
206-44-0	Fluoranthene	320	U
129-00-0	Pyrene	320	U
85-68-7	Butylbenzylphthalate	320	U
91-94-1	3,3'-Dichlorobenzidine	320	U
56-55-3	Benzo(a)anthracene	320	U
218-01-9	Chrysene	320	U
117-81-7	bis(2-Ethylhexyl)phthalate	220	J
117-84-0	Di-n-octylphthalate	320	U
205-99-2	Benzo(b)fluoranthene	320	U
207-08-9	Benzo(k)fluoranthene	320	U
50-32-8	Benzo(a)pyrene	320	U
193-39-5	Indeno(1,2,3-cd)pyrene	320	U
53-70-3	Dibenzo(a,h)anthracene	320	U
191-24-2	Benzo(g,h,i)perylene	320	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: AOC3CTCP8RE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-03DRE

Sample wt/vol: 30.5 (g/mL) G Lab File ID: S2D1273

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 01/20/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03

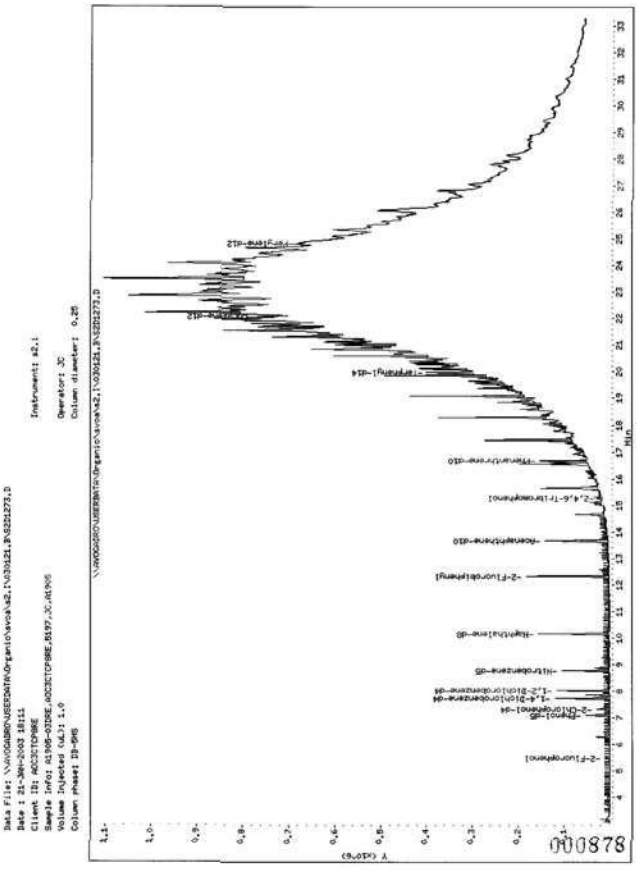
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 8 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	19.38	1000	J
2.	UNKNOWN	19.57	810	J
3.	UNKNOWN	20.09	810	J
4.	UNKNOWN	20.28	900	J
5.	UNKNOWN	20.86	2400	J
6.	UNKNOWN	21.01	1500	J
7.	UNKNOWN	21.70	1600	J
8.	UNKNOWN	22.22	2700	J
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM03.0



Data File: S2D1273.D
Report Date: 29-Jan-2003 10:32

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1273.D
Lab Smp Id: A1905-03DRE Client Smp ID: AOC3CTCP8RE
Inj Date : 21-JAN-2003 18:11
Operator : JC Inst ID: s2.i
Smp Info : A1905-03DRE,AOC3CTCP8RE,5197,JC,A1905
Misc Info : 0,,,2,,,,30.5,,,20-JAN-03,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\s2_8270C.m
Meth Date : 27-Jan-2003 11:54 mtl Quant Type: ISTD
Cal Date : 18-JAN-2003 12:56 Cal File: S2D1202.D ✓
Als bottle: 39
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.500 ✓	Weight of sample extracted (g)
M	0.000	% Moisture

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)	
S	3 2-Fluorophenol	112	5.516	5.506	(0.712)	9207	7.55936	250	(aR)
S	5 Phenol-d5	99	7.103	7.104	(0.916)	44051	29.8351	980	(R)
S	9 2-Chlorophenol-d4	132	7.340	7.341	(0.947)	16208	12.8939	420	(R)
*	12 1,4-Dichlorobenzene-d4	152	7.751	7.751	(1.000)	37901	40.0000		(Q)
S	14 1,2-Dichlorobenzene-d4	152	8.021	8.021	(1.035)	33866	43.9002	1400	
S	22 Nitrobenzene-d5	82	8.776	8.777	(0.864)	50709	42.6635	1400	
*	31 Naphthalene-d8	136	10.158	10.159	(1.000)	132340	40.0000		
S	41 2-Fluorobiphenyl	172	12.328	12.328	(0.902)	110307	47.1264	1500	
*	48 Acenaphthene-d10	164	13.666	13.667	(1.000)	68720	40.0000		
S	60 2,4,6-Tribromophenol	330	15.275	15.275	(0.915)	381	1.21515	40	(aRM)
*	64 Phenanthrene-d10	188	16.689	16.679	(1.000)	106151	40.0000		
S	72 Terphenyl-d14	244	19.971	19.950	(0.906)	75841	55.9183	1800	
*	76 Chrysene-d12	240	22.087	22.055	(1.000)	66035	40.0000		(M)

000879

Data File: S2D1273.D
Report Date: 29-Jan-2003 10:32

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)	
	78 bis(2-Ethylhexyl)phthalate	149	22.214	22.174	(1.006)	8908	6.69293	220	(aM)
*	81 Perylene-d12	264	24.850	24.764	(1.000)	39965	40.0000		(QM)

1/29/03

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

1/29/03

000880

Data File: S2D1273.D
Report Date: 30-Jan-2003 08:26

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1273.D
Lab Smp Id: A1905-03DRE Client Smp ID: AOC3CTCP8RE
Inj Date : 21-JAN-2003 18:11
Operator : JC Inst ID: s2.i
Smp Info : A1905-03DRE,AOC3CTCP8RE,5197,JC,A1905
Misc Info : 0,,,2,,,,30.5,,,20-JAN-03,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\s2_8270C.m
Meth Date : 27-Jan-2003 11:54 mtl Quant Type: ISTD
Cal Date : 18-JAN-2003 12:56 Cal File: S2D1202.D
Als bottle: 39
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.500	Weight of sample extracted (g)
M	0.000	% Moisture

ISTD	RT	AREA	AMOUNT
* 48 Acenaphthene-d10	13.666	396267	40.000
* 64 Phenanthrene-d10	16.689	217877	40.000

RT	AREA	CONCENTRATIONS ON-COL(ng)	CONCENTRATIONS FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Straight-chain Alkane			CAS #:				
14.670	130702	13.1933267	430	0		0	48

000881

Data File: S2D1273.D
Report Date: 30-Jan-2003 08:26

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Straight-chain Alkane				CAS #:			
15.642	329721	60.5334302	2000	0		0	64
Straight-chain Alkane				*CAS #:*			
16.570	298374	54.7784300	1800	0		0	64
Branched Alkane				CAS #:			
16.624	225488	41.3973021	1400	0		0	64
Straight-chain Alkane				CAS #:			
17.445	327715	60.1651393	2000	0		0	64
Straight-chain Alkane				CAS #:			
18.267	353585	64.9438383	2100	0		0	64
Branched Alkane				CAS #:			
18.859	167253	30.7059488	1000	0		0	64
Straight-chain Alkane				CAS #:			
19.085	400866	73.5949182	2400	0		0	64
Unknown				CAS #:			
19.377	166693	30.6031385	1000	0		0	64
Unknown				CAS #:			
19.571	135020	24.7882990	810	0		0	64
Straight-chain Alkane				CAS #:			
19.952	389470	71.5027166	3300	0		0	64
Unknown				CAS #:			
20.089	134667	24.7234908	810	0		0	64
Unknown				CAS #:			
20.284	149093	27.3719576	900	0		0	64
Straight-chain Alkane				CAS #:			
20.327	114018	20.9325445	690	0		0	64
Straight-chain Alkane				CAS #:			
20.597	348241	63.9335038	2100	0		0	64
Unknown				CAS #:			
20.856	392145	71.9928134	2400	0		0	64

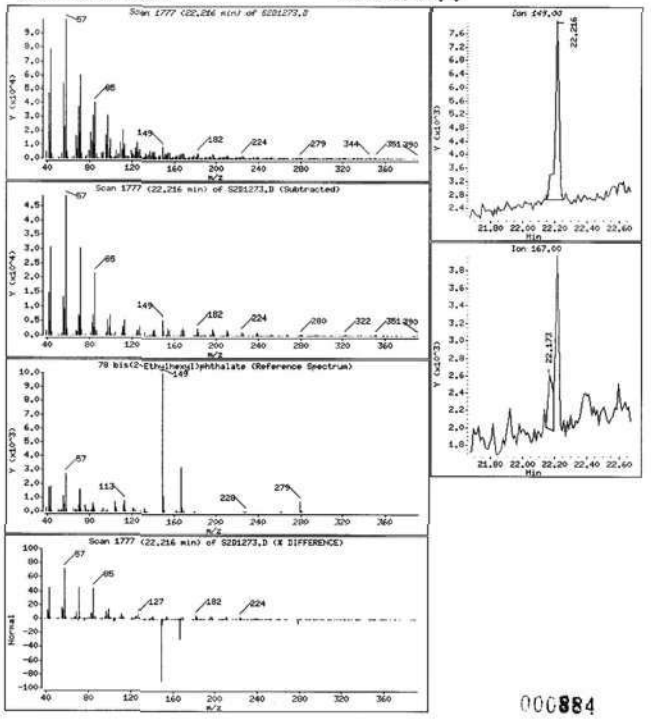
Data File: S2D1273.D
Report Date: 30-Jan-2003 08:26

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
21.007	255682	46.9406133	1500	0		0	64
Unknown				CAS #:			
21.698	263812	48.4315575	1600	0		0	64
Unknown				CAS #:			
22.316	456736	83.8520817	2700	0		0	64(L)
Straight-chain Alkane				CAS #:			
23.479	982342	180.351666	5900	0		0	64

QC Flag Legend

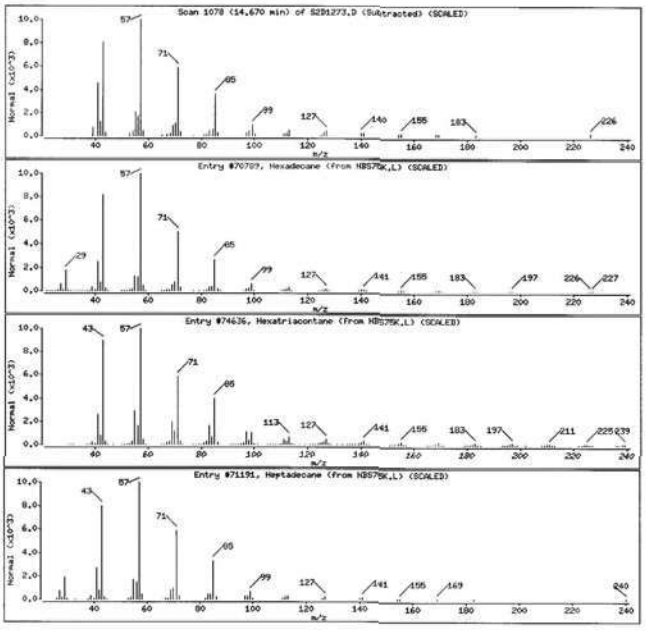
L - Operator selected an alternate library search match.

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030121.B\S2D1273.D
Date : 21-JAN-2003 18:11
Client ID: AOC3CTCP8RE
Instrument: s2.i
Sample Info: A1905-03RE,AOC3CTCP8RE,8197,JC,A1905
Volume Injected (uL): 1.0
Operator: JC
Column phase: DB-5MS
Column diameter: 0.25
78 bis(2-Ethylhexyl)phthalate
Concentration: 220 ug/Kg



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030121.B\S2D1273.D
Date : 21-JAN-2003 18:11
Client ID: AOC3CTCP8RE
Instrument: s2.i
Sample Info: A1905-03RE,AOC3CTCP8RE,8197,JC,A1905
Volume Injected (uL): 1.0
Operator: JC
Column phase: DB-5MS
Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Hexadecane	544-76-3	NBS75K.L	70709	97	C16H34	226
Hexatriacontane	630-06-8	NBS75K.L	74636	91	C36H74	507
Heptadecane	629-78-7	NBS75K.L	71191	91	C17H36	240



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030121.B\S2D1273.D

Date : 21-JAN-2003 18:11

Client ID: AOC3CTCPSRE

Instrument: s2.i

Sample Info: A1905-03RE,AOC3CTCPSRE,5197,JC,A1905

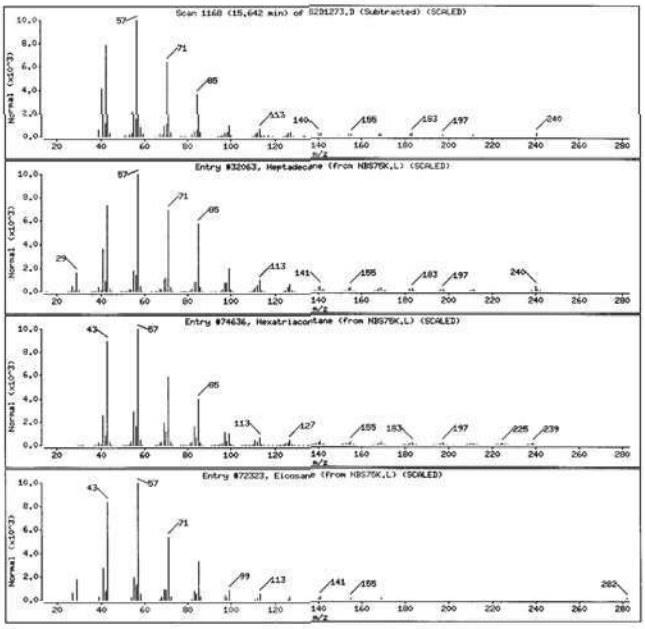
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Heptadecane	629-78-7	NBS75K.L	32063	93	C17H36	240
Hexatriacontane	630-06-8	NBS75K.L	74636	91	C36H74	507
Eicosane	112-95-8	NBS75K.L	72323	91	C20H42	282



000886

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030121.B\S2D1273.D

Date : 21-JAN-2003 18:11

Client ID: AOC3CTCPSRE

Instrument: s2.i

Sample Info: A1905-03RE,AOC3CTCPSRE,5197,JC,A1905

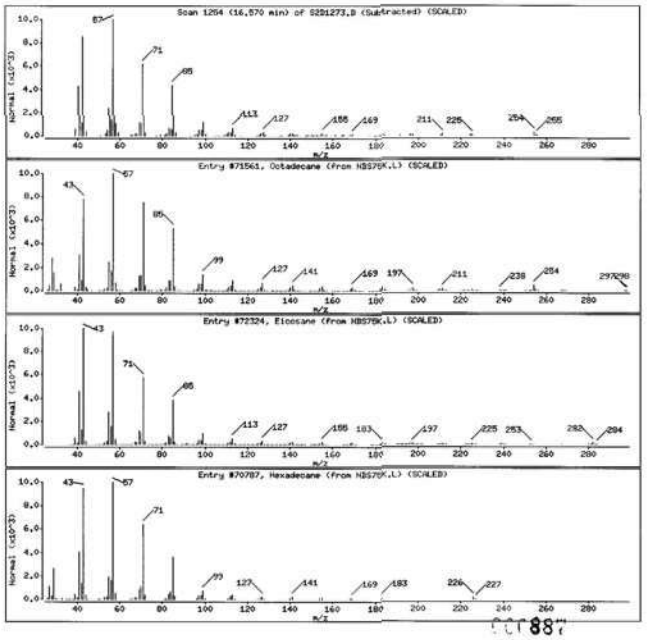
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Octadecane	593-45-3	NBS75K.L	71561	97	C18H38	254
Eicosane	112-95-8	NBS75K.L	72324	91	C20H42	282
Hexadecane	544-76-3	NBS75K.L	70787	91	C16H34	226



000887

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030121.B\S2D1273.D

Date : 21-JAN-2003 18:11

Client ID: AOC3CTCPSRE

Instrument: s2.i

Sample Info: A1905-03RE,AOC3CTCPSRE,5197,JC,A1905

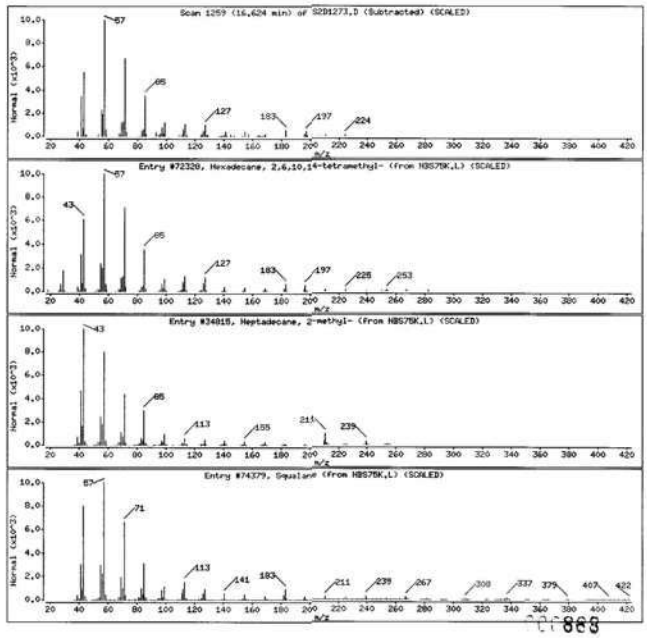
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
Hexadecane, 2,6,10,14-tetramethyl-	638-36-8	NBS75K.L	72320	91	C20H42	282
Heptadecane, 2-methyl-	1560-89-0	NBS75K.L	34815	86	C18H38	254
Squalane	111-01-3	NBS75K.L	74379	83	C30H62	422



000888

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030121.B\S2D1273.D

Date : 21-JAN-2003 18:11

Client ID: AOC3CTCPSRE

Instrument: s2.i

Sample Info: A1905-03RE,AOC3CTCPSRE,5197,JC,A1905

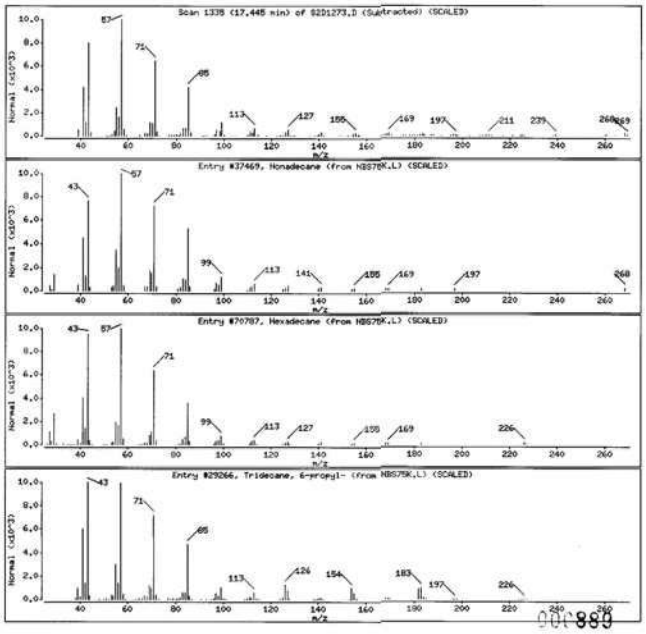
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Nonadecane	629-92-5	NBS75K.L	37469	98	C19H40	268
Hexadecane	544-76-3	NBS75K.L	70787	96	C16H34	226
Tridecane, 6-propyl-	55045-10-9	NBS75K.L	29266	94	C16H34	226



000889

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.i\030121.B\S2D1273.D

Date : 21-JAN-2003 18:11

Client ID: AOC3CTCPSRE

Instrument: s2.i

Sample Info: A1906-03RE,AOC3CTCPSRE,5197,JC,A1906

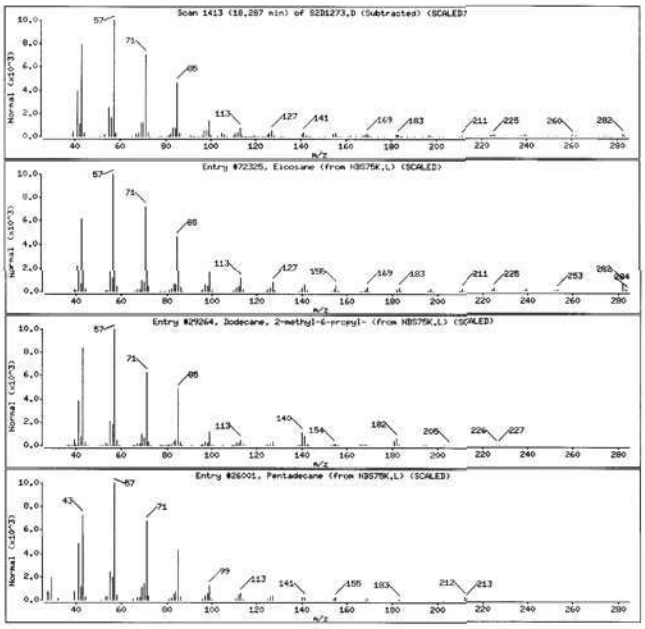
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Eicosane	112-95-8	NBS75K.L	72325	97	C20H42	282
Dodecane, 2-methyl-6-propyl-	55045-08-4	NBS75K.L	29264	93	C16H34	226
Pentadecane	629-62-9	NBS75K.L	26001	91	C15H32	212



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.i\030121.B\S2D1273.D

Date : 21-JAN-2003 18:11

Client ID: AOC3CTCPSRE

Instrument: s2.i

Sample Info: A1906-03RE,AOC3CTCPSRE,5197,JC,A1906

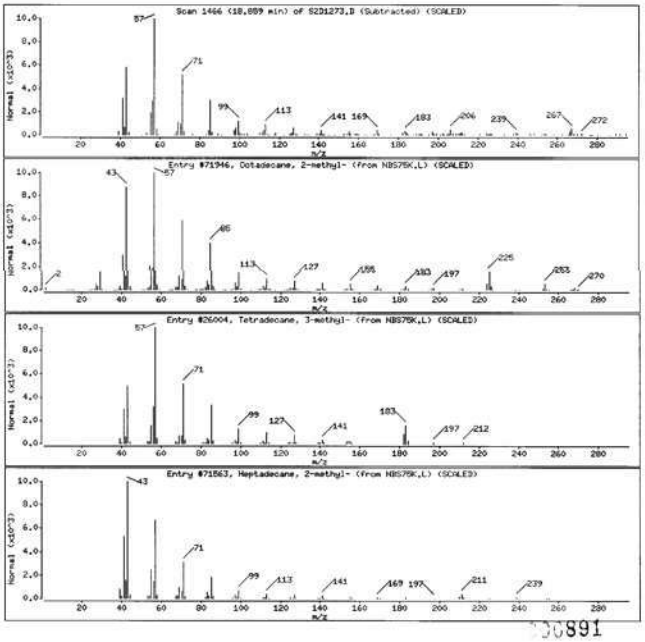
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Branched Alkane						
Octadecane, 2-methyl-	1560-88-9	NBS75K.L	71946	91	C19H40	268
Tetradecane, 3-methyl-	18435-22-8	NBS75K.L	26004	90	C15H32	212
Heptadecane, 2-methyl-	1560-89-0	NBS75K.L	71863	87	C18H38	254



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.i\030121.B\S2D1273.D

Date : 21-JAN-2003 18:11

Client ID: AOC3CTCPSRE

Instrument: s2.i

Sample Info: A1906-03RE,AOC3CTCPSRE,5197,JC,A1906

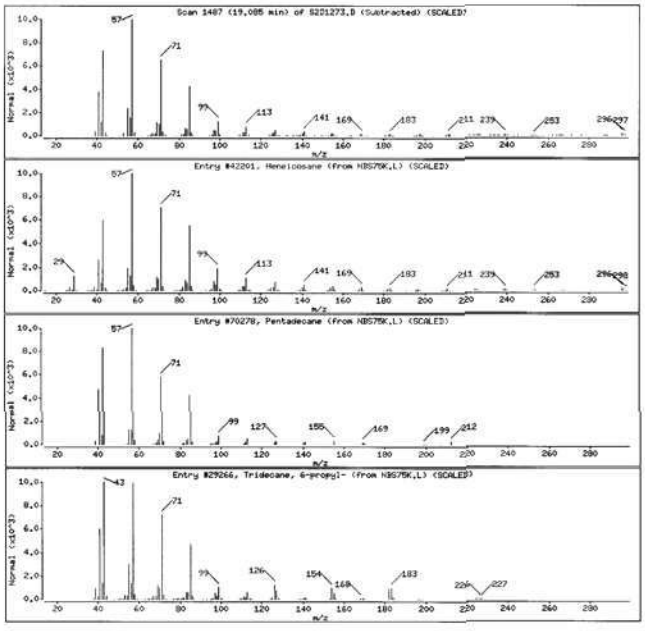
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Heneicosane	629-94-7	NBS75K.L	42201	98	C21H44	296
Pentadecane	629-62-9	NBS75K.L	70278	94	C15H32	212
Tridecane, 6-propyl-	55045-10-8	NBS75K.L	29266	93	C16H34	226



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.i\030121.B\S2D1273.D

Date : 21-JAN-2003 18:11

Client ID: AOC3CTCPSRE

Instrument: s2.i

Sample Info: A1906-03RE,AOC3CTCPSRE,5197,JC,A1906

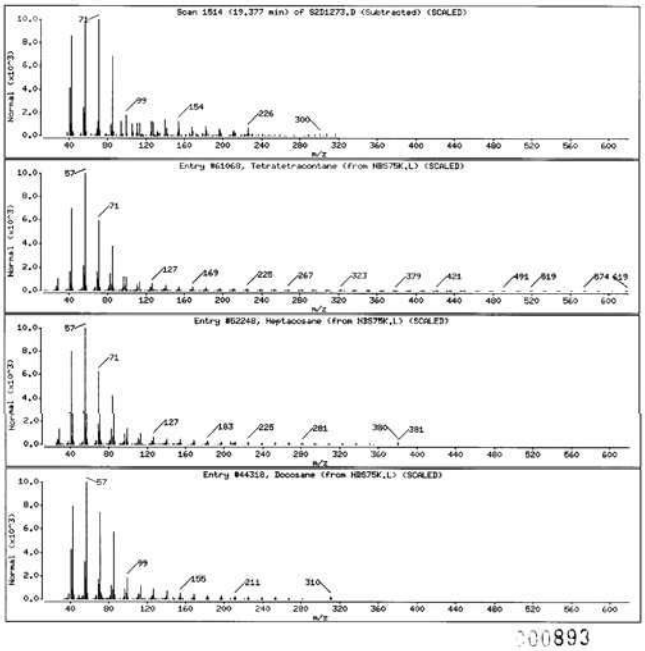
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Tetratetracontane	7098-22-8	NBS75K.L	61068	72	C44H90	619
Heptacosane	593-49-7	NBS75K.L	62248	64	C27H56	380
Docosane	629-97-0	NBS75K.L	44310	64	C22H46	310



Data File: \\AVOGADRO\USERDATA\Organic\avoa\a2.I\030121.B\S2D1273.D

Date : 21-JAN-2003 18:11

Client ID: AOC3CTCP8RE

Instrument: s2.i

Sample Info: A1905-03RE,AOC3CTCP8RE,5197,JC,A1905

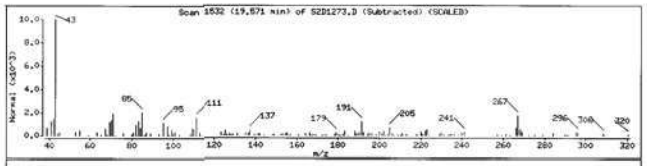
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\avoa\a2.I\030121.B\S2D1273.D

Date : 21-JAN-2003 18:11

Client ID: AOC3CTCP8RE

Instrument: s2.i

Sample Info: A1905-03RE,AOC3CTCP8RE,5197,JC,A1905

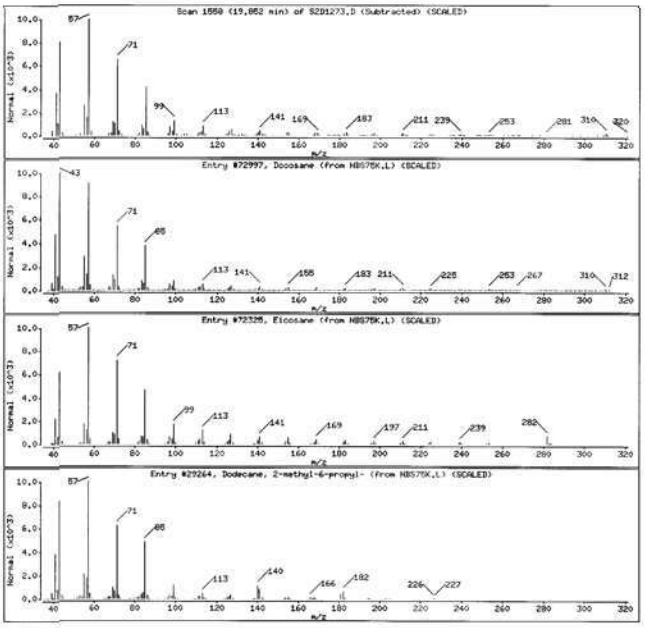
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Docosane*	629-97-0	NBS75K.L	72997	98	C22H46	310
Eicosane*	112-95-8	NBS75K.L	72325	98	C20H42	282
Dodecane, 2-methyl-6-propyl-	55045-08-4	NBS75K.L	29264	93	C16H34	226



Data File: \\AVOGADRO\USERDATA\Organic\avoa\a2.I\030121.B\S2D1273.D

Date : 21-JAN-2003 18:11

Client ID: AOC3CTCP8RE

Instrument: s2.i

Sample Info: A1905-03RE,AOC3CTCP8RE,5197,JC,A1905

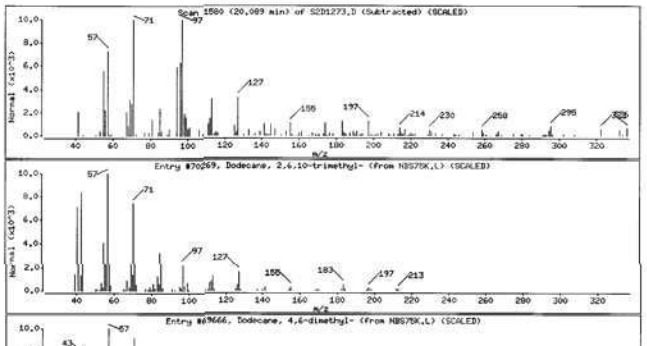
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Dodecane, 2,6,10-trimethyl-	3891-98-3	NBS75K.L	70269	25	C15H32	212
Dodecane, 4,6-dimethyl-	61141-72-8	NBS75K.L	69666	25	C14H30	198



Data File: \\AVOGADRO\USERDATA\Organic\avoa\a2.I\030121.B\S2D1273.D

Date : 21-JAN-2003 18:11

Client ID: AOC3CTCP8RE

Instrument: s2.i

Sample Info: A1905-03RE,AOC3CTCP8RE,5197,JC,A1905

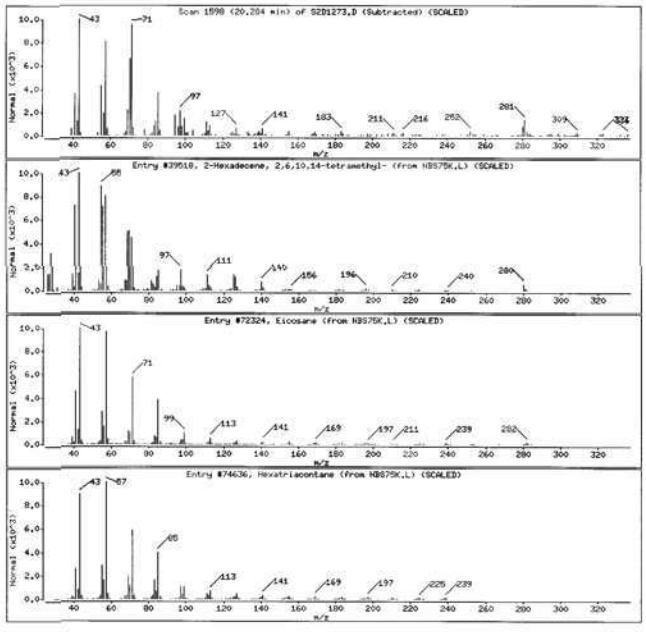
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Hexadecene, 2,6,10,14-tetramethyl-	56554-34-8	NBS75K.L	39618	60	C20H40	280
Eicosane	112-95-8	NBS75K.L	72324	55	C20H42	282
Hexatriacontane	630-06-8	NBS75K.L	74636	49	C36H74	507



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030121.B\S201273.D

Date : 21-JAN-2003 18:11

Client ID: AOC3CTCP8RE

Instrument: s2.i

Sample Info: A1905-03RE,AOC3CTCP8RE,5197,JC,A1905

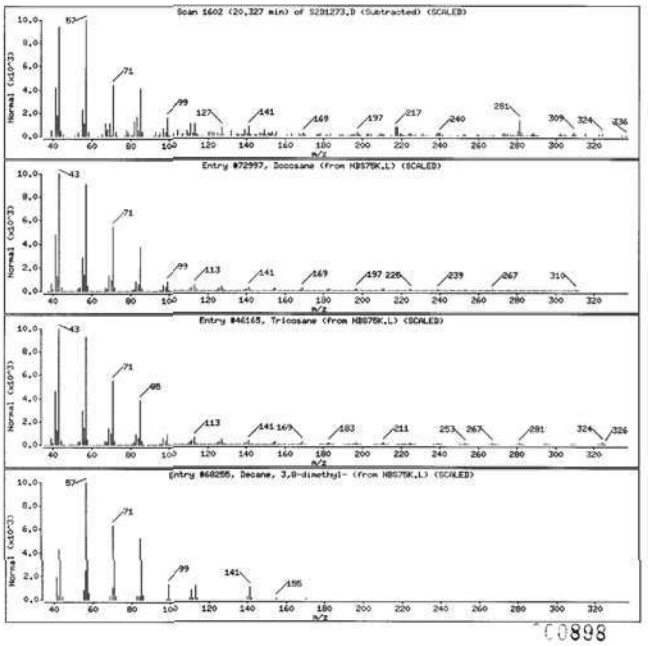
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Docosane	629-97-0	NBS75K.L	72997	95	C22H46	310
Tricosane	638-67-5	NBS75K.L	46168	90	C23H48	324
Decane, 3,8-dimethyl-	17312-88-9	NBS75K.L	68256	83	C12H26	170



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030121.B\S201273.D

Date : 21-JAN-2003 18:11

Client ID: AOC3CTCP8RE

Instrument: s2.i

Sample Info: A1905-03RE,AOC3CTCP8RE,5197,JC,A1905

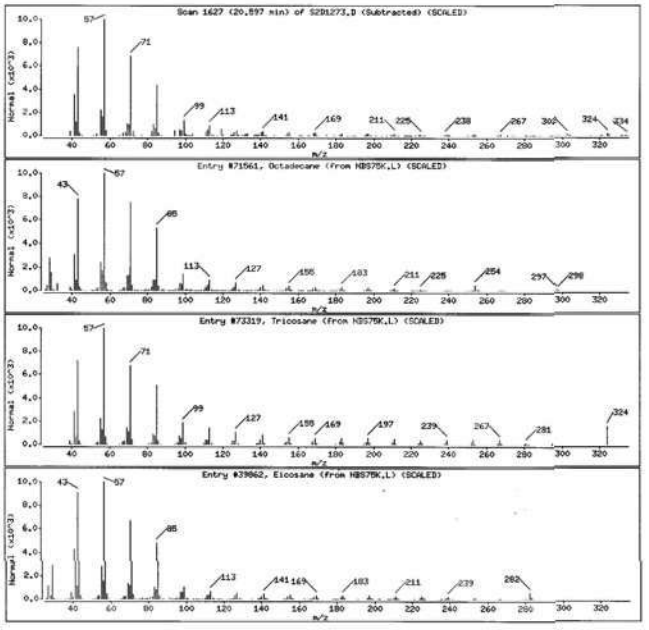
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Octadecane	593-45-3	NBS75K.L	71561	98	C18H38	254
Tricosane	638-67-5	NBS75K.L	73319	95	C23H48	324
Eicosane	112-95-8	NBS75K.L	39862	91	C20H42	282



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030121.B\S201273.D

Date : 21-JAN-2003 18:11

Client ID: AOC3CTCP8RE

Instrument: s2.i

Sample Info: A1905-03RE,AOC3CTCP8RE,5197,JC,A1905

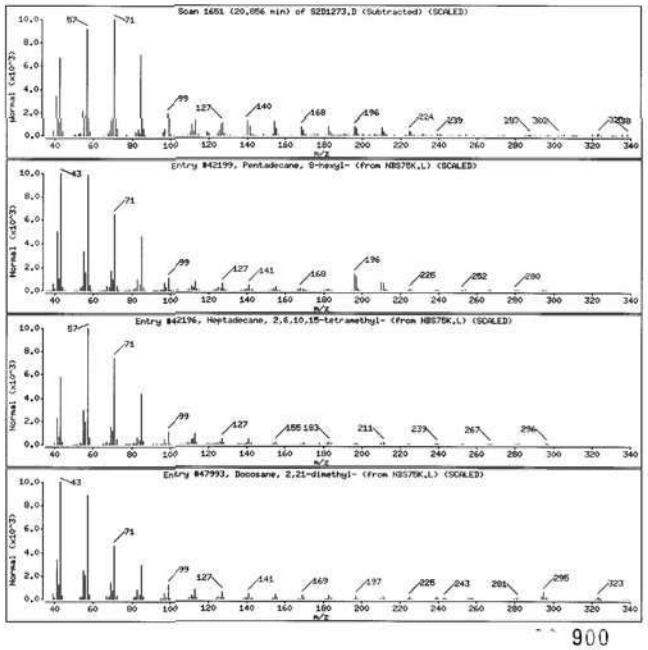
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Pentadecane, 8-hexyl-	13475-75-7	NBS75K.L	42199	68	C21H44	296
Heptadecane, 2,6,10,15-tetramethyl-	54833-48-6	NBS75K.L	42196	68	C21H44	296
Docosane, 2,21-dimethyl-	77536-31-3	NBS75K.L	47993	68	C24H50	338



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030121.B\S201273.D

Date : 21-JAN-2003 18:11

Client ID: AOC3CTCP8RE

Instrument: s2.i

Sample Info: A1905-03RE,AOC3CTCP8RE,5197,JC,A1905

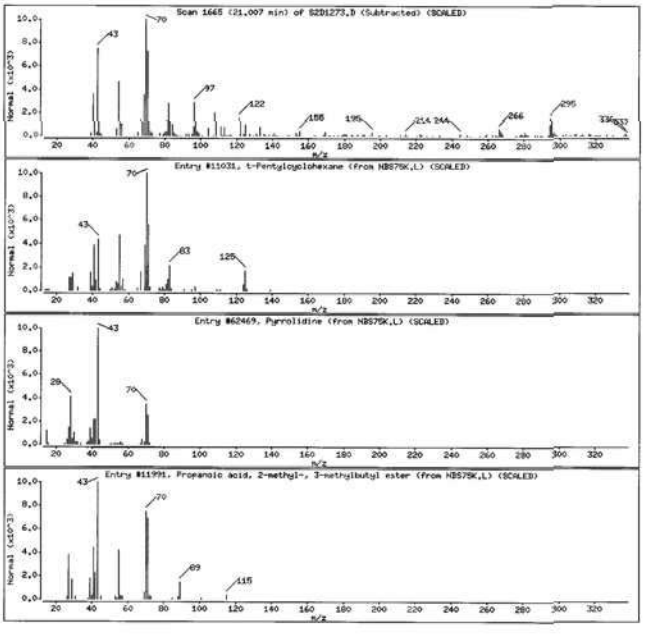
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
t-Pentylcyclohexane	0-00-0	NBS75K.L	11031	47	C11H22	154
Pyrrolidine	123-75-1	NBS75K.L	62469	43	C4H9N	71
Propanoic acid, 2-methyl-, 3-methylbutyl	2050-01-3	NBS75K.L	11991	43	C9H18O2	158



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030121.B\SZ01273.D

Date : 21-JAN-2003 18:11

Client ID: AOC3CTCP8RE

Instrument: s2.i

Sample Info: A1905-03RE,AOC3CTCP8RE,5197,JC,A1905

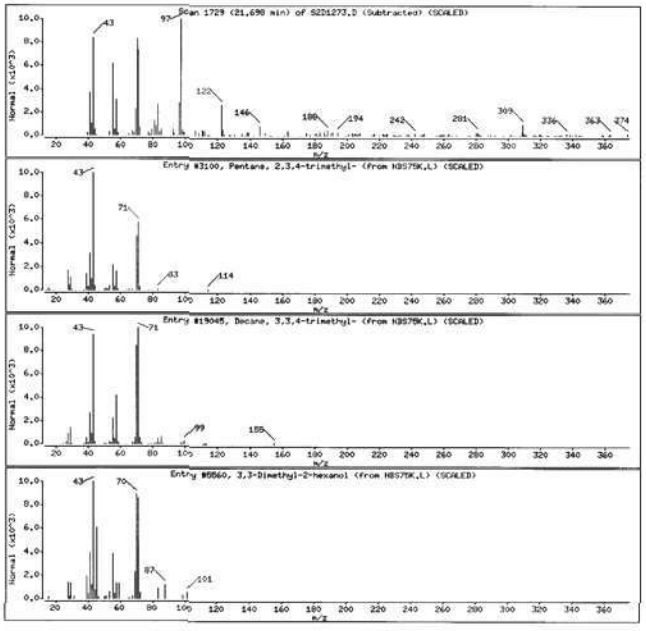
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Pentane, 2,3,4-trimethyl-	565-75-3	NBS75K.L	3100	38	C8H18	114
Decane, 3,3,4-trimethyl-	49622-18-6	NBS75K.L	19045	38	C13H28	184
3,3-Dimethyl-2-hexanol	22025-20-3	NBS75K.L	8560	32	C8H18O	130



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030121.B\SZ01273.D

Date : 21-JAN-2003 18:11

Client ID: AOC3CTCP8RE

Instrument: s2.i

Sample Info: A1905-03RE,AOC3CTCP8RE,5197,JC,A1905

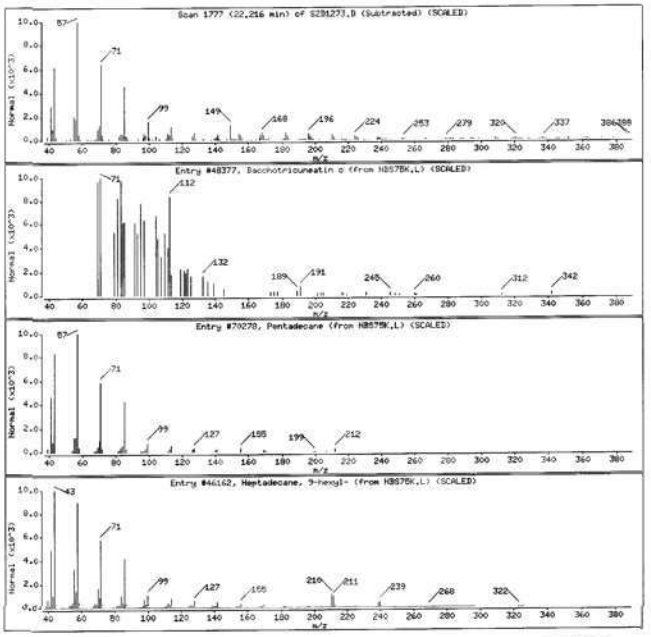
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Bacchotricuneatin c	66563-30-2	NBS75K.L	48377	96	C20H22O5	342
Pentadecane	629-62-9	NBS75K.L	70278	81	C15H32	212
Heptadecane, 9-hexyl-	55124-79-3	NBS75K.L	46162	81	C23H48	324



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030121.B\SZ01273.D

Date : 21-JAN-2003 18:11

Client ID: AOC3CTCP8RE

Instrument: s2.i

Sample Info: A1905-03RE,AOC3CTCP8RE,5197,JC,A1905

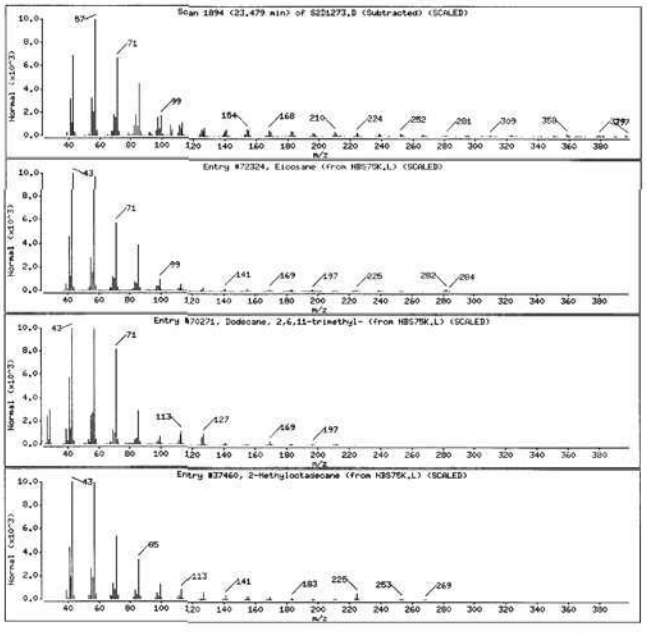
Volume Injected (uL): 1.0

Operator: JC

Column phase: DB-5MS

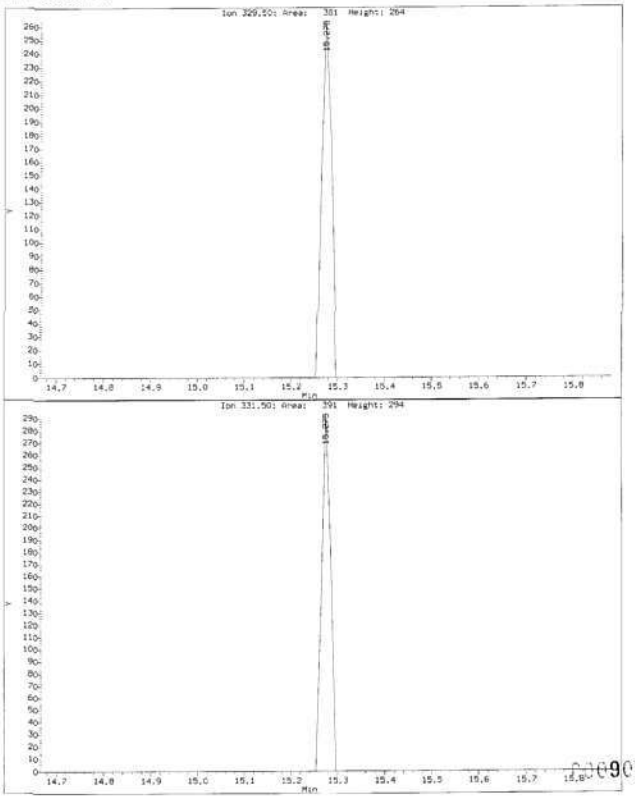
Column diameter: 0.25

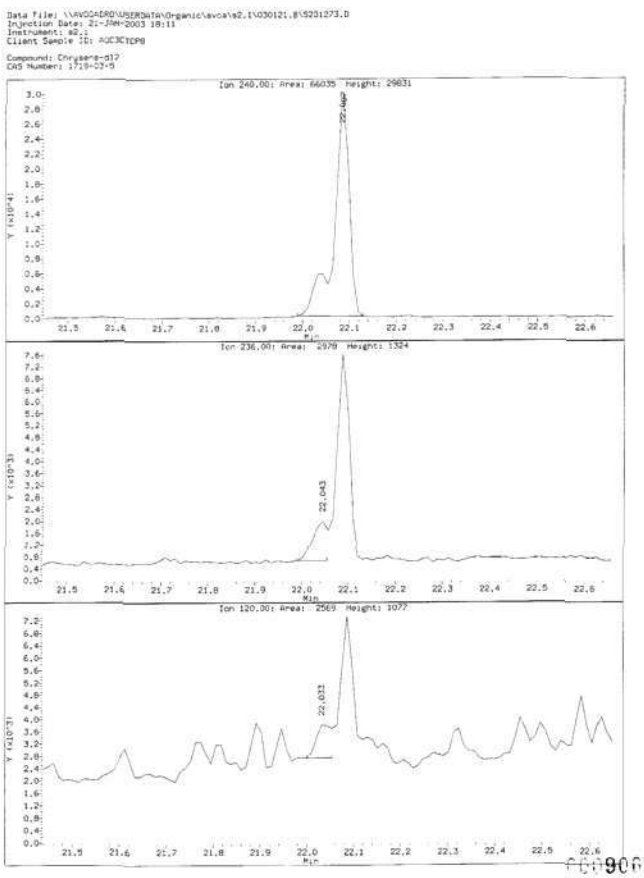
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Eicosane	112-95-8	NBS75K.L	72324	94	C20H42	282
Dodecane, 2,6,11-trimethyl-	31295-56-4	NBS75K.L	70271	93	C15H32	212
2-Methyloctadecane	0-00-0	NBS75K.L	37460	93	C19H40	268



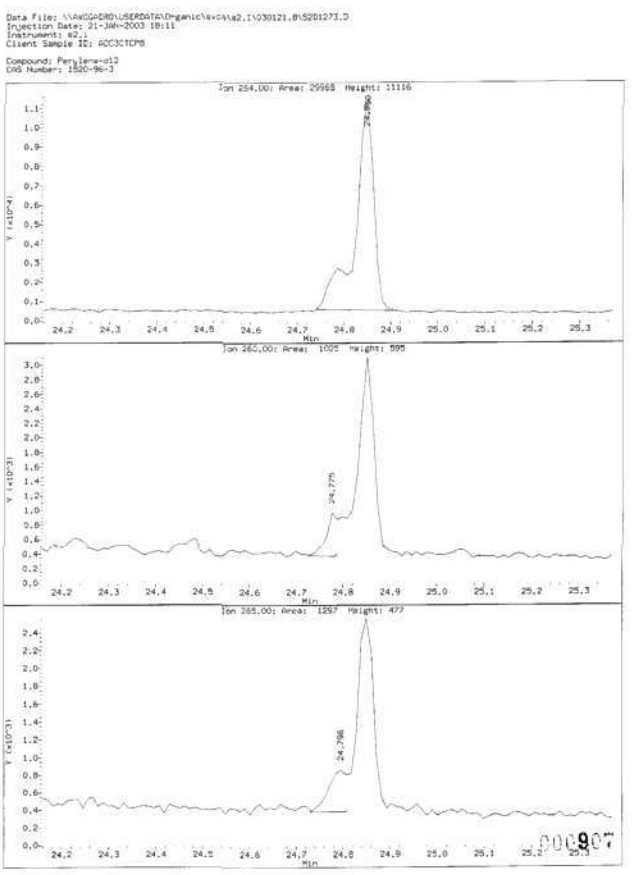
Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030121.B\SZ01273.D
Injection Date: 21-JAN-2003 18:11
Instrument: s2.i
Client Sample ID: AOC3CTCP8

Compound: 2,4,6-Tribromophenol
CAS Number: 118-79-6





000906



000907

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSD5A45

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-11A
Sample wt/vol: 30.4 (g/mL) G Lab File ID: S2D0955
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 9 decanted: (Y/N) N Date Extracted: 12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)Ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-Methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	730	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	730	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	730	U
83-32-9	Acenaphthene	360	U

FORM I SV-1 OLM03.0

000908

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSD5A45

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-11A
Sample wt/vol: 30.4 (g/mL) G Lab File ID: S2D0955
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: 9 decanted: (Y/N) N Date Extracted: 12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	730	U
100-02-7	4-Nitrophenol	730	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	730	U
534-52-1	4,6-Dinitro-2-methylphenol	730	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	730	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenzo(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	360	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

000909

1F

EPA SAMPLE NO.

AOC3SSD5A45

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-11A

Sample wt/vol: 30.4 (g/mL) G Lab File ID: S2D0955

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 9 decanted: (Y/N) N Date Extracted:12/24/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

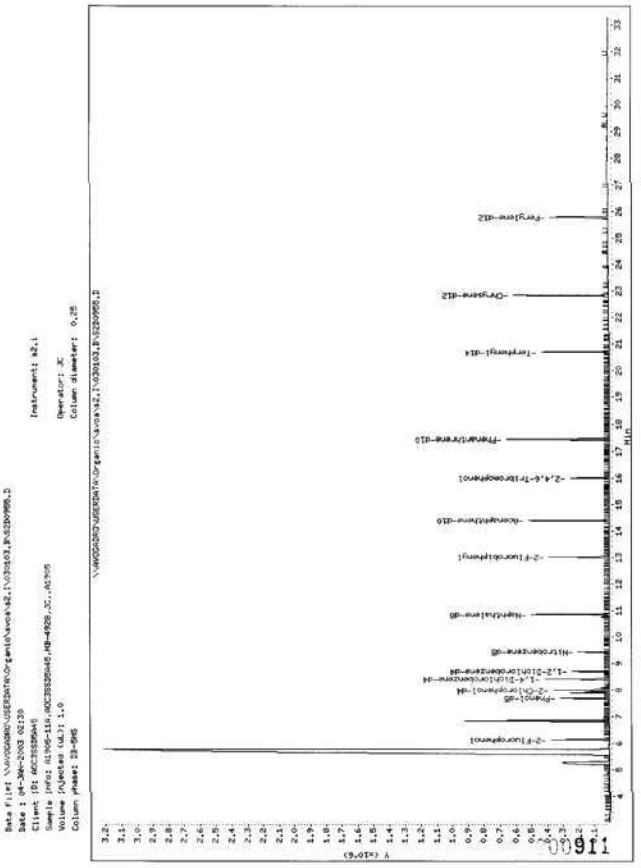
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.91	790	J
2.	111-90-0	ETHANOL, 2-(2-ETHOXYETHOXY)-	8.08	190	NJ
3.		UNKNOWN	29.23	210	J
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM 1 SV-TIC OLM03.0



Data File: S2D0955.D
Report Date: 29-Jan-2003 09:44

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0955.D
Lab Smp Id: A1905-11A Client Smp ID: AOC3SSD5A45
Inj Date : 04-JAN-2003 02:30
Operator : JC Inst ID: s2.i
Smp Info : A1905-11A,AOC3SSD5A45,MB-4928,JC,,A1905
Misc Info : 0,,,1,,,,30.4,,,24-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\s2_8270C.m
Meth Date : 24-Jan-2003 13:27 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D ✓
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.400 ✓	Weight of sample extracted (g)
M	9.000 ✓	% Moisture

	Compounds	QUANT STD MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
$	3 2-Fluorophenol	112	6.141	6.106	(0.729)	157516	39.1967	1400
$	5 Phenol d5	99	7.707	7.693	(0.915)	207071	40.3525	1400
$	9 2-Chlorophenol-d4	132	7.998	7.973	(0.950)	165396	39.9132	2400
*	12 1,4-Dichlorobenzene-d4	152	8.419	8.405	(1.000)	111682	40.0000	
$	14 1,2-Dichlorobenzene-d4	152	8.700	8.686	(1.033)	63449	26.4161	950
$	22 Nitrobenzene-d5	82	9.445	9.431	(0.871)	98710	25.2572	910
*	31 Naphthalene-d8	136	10.848	10.845	(1.000)	404992	40.0000	
$	41 2 Fluorobiphenyl	172	13.029	13.015	(0.905)	206802	37.2322	980
*	48 Acenaphthene-d10	164	14.400	14.386	(1.000)	225705	40.0000	
$	60 2,4,6-Tribromophenol	330	15.998	15.994	(0.928)	58214	40.4212	1500
*	64 Phenanthrene-d10	188	17.433	17.419	(1.000)	392430	40.0000	
$	72 Terphenyl d14	244	20.715	20.690	(0.927)	262983	28.6904	1000(R)
*	76 Chrysene-d12	240	22.842	22.837	(1.000)	395213	40.0000	

Data File: S2D0955.D
Report Date: 29-Jan-2003 09:44

	Compounds	QUANT STD MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
*	83 Perylene d12	264	25.789	25.764	(1.000)	261865	40.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

1/29/03

Data File: S2D0955.D
Report Date: 29-Jan-2003 09:44

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0955.D
Lab Smp Id: A1905-11A Client Smp ID: AOC3SSD5A45
Inj Date : 04-JAN-2003 02:30
Operator : JC Inst ID: s2.i
Smp Info : A1905-11A,AOC3SSD5A45,MB-4928,JC,,A1905
Misc Info : 0,,,1,,,,30.4,,,24-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\s2_8270C.m
Meth Date : 24-Jan-2003 13:27 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.400	Weight of sample extracted (g)
M	9.000	% Moisture

ISTD	RT	AREA	AMOUNT
* 12 1,4-Dichlorobenzene-d4	8.419	614098	40.000
* 83 Perylene-d12	25.789	939995	40.000

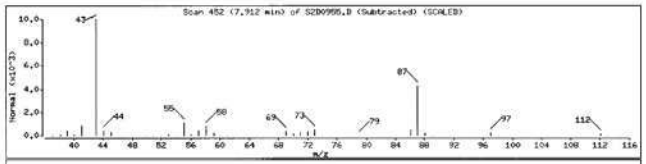
	CONCENTRATIONS				QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown			CAS #:				
7.912	334605	21.7948927	730	0		0	12

Data File: S2D0955.D
Report Date: 29-Jan-2003 09:44

	CONCENTRATIONS				QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Ethanol, 2-(2-ethoxyethoxy)-			CAS #: 111-90-0				
8.085	79370	5.26894059	190	90	NBS75K.L	65483	12
Unknown			CAS #:				
29.232	135714	5.77509465	210	0		0	83

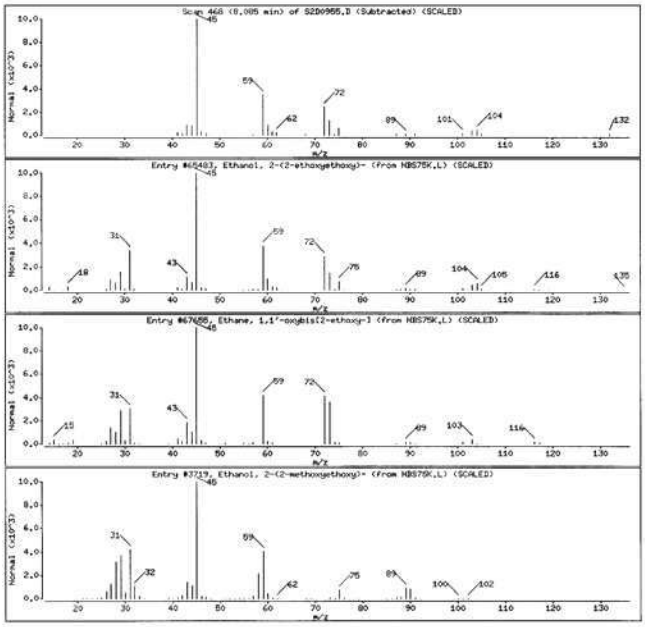
Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0955.D
Date : 04-JAN-2003 02:30
Client ID: AOC3SSD5A45 Instrument: s2.i
Sample Info: A1905-11A,AOC3SSD5A45,MB-4928,JC,,A1905
Volume Injected (uL): 1.0 Operator: JC
Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0955.D
Date : 04-JAN-2003 02:30
Client ID: AOC3SSD5A45 Instrument: s2.i
Sample Info: A1905-11A,AOC3SSD5A45,MB-4928,JC,,A1905
Volume Injected (uL): 1.0 Operator: JC
Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	NBS75K.L	65483	90	C6H1403	134
Ethane, 1,1'-oxybis[2-ethoxy-]	112-36-7	NBS75K.L	67655	72	C8H1803	162
Ethanol, 2-(2-methoxyethoxy)-	111-77-3	NBS75K.L	3719	36	C5H1203	120



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0956.D

Date : 04-JAN-2003 02:30

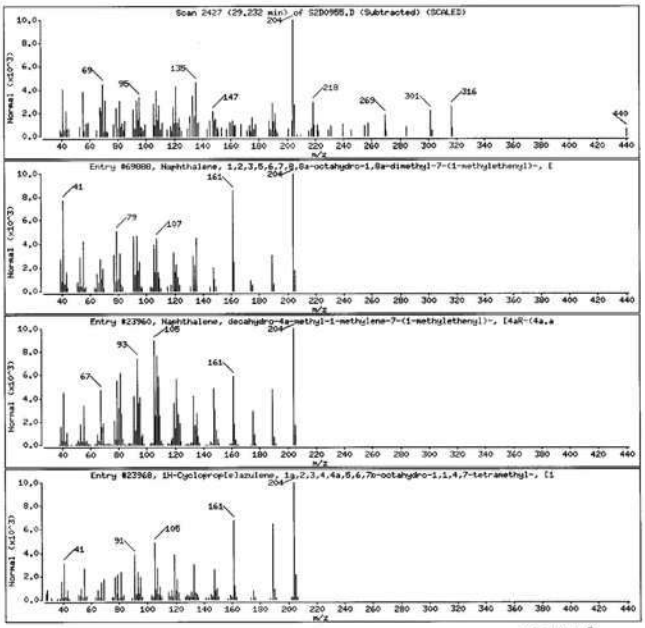
Client ID: A0C3SSD5B45 Instrument: s2.I

Sample Info: A1905-12A,A0C3SSD5B45,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NIST98.L	69888	52	C10H24	204
Naphthalene, decahydro-4a-methyl-1-methy	17066-67-0	NIST98.L	23960	43	C15H24	204
1H-Cycloprop[e]azulene, 1a,2,3,4,4a,5,6,	489-40-7	NIST98.L	23968	43	C15H24	204



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: A0C3SSD5B45

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-12A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D0956

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 10 decanted: (Y/N) N Date Extracted: 12/24/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)Ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
111-91-1	bis(2-Chloroethoxy)methane	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-Methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	740	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	740	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	740	U
83-32-9	Acenaphthene	370	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: A0C3SSD5B45

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-12A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D0956

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 10 decanted: (Y/N) N Date Extracted: 12/24/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	740	U
100-02-7	4-Nitrophenol	740	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U
100-01-6	4-Nitroaniline	740	U
534-52-1	4,6-Dinitro-2-methylphenol	740	U
86-30-6	N-Nitrosodiphenylamine (1)	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	740	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-butylphthalate	370	U
206-44-0	Fluoranthene	370	U
129-00-0	Pyrene	370	U
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	370	U
218-01-9	Chrysene	370	U
117-81-7	bis(2-Ethylhexyl)phthalate	370	U
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	370	U
207-08-9	Benzo(k)fluoranthene	370	U
50-32-8	Benzo(a)pyrene	370	U
193-39-5	Indeno(1,2,3-cd)pyrene	370	U
53-70-3	Dibenzo(a,h)anthracene	370	U
191-24-2	Benzo(g,h,i)perylene	370	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: A0C3SSD5B45

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-12A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D0956

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 10 decanted: (Y/N) N Date Extracted: 12/24/02

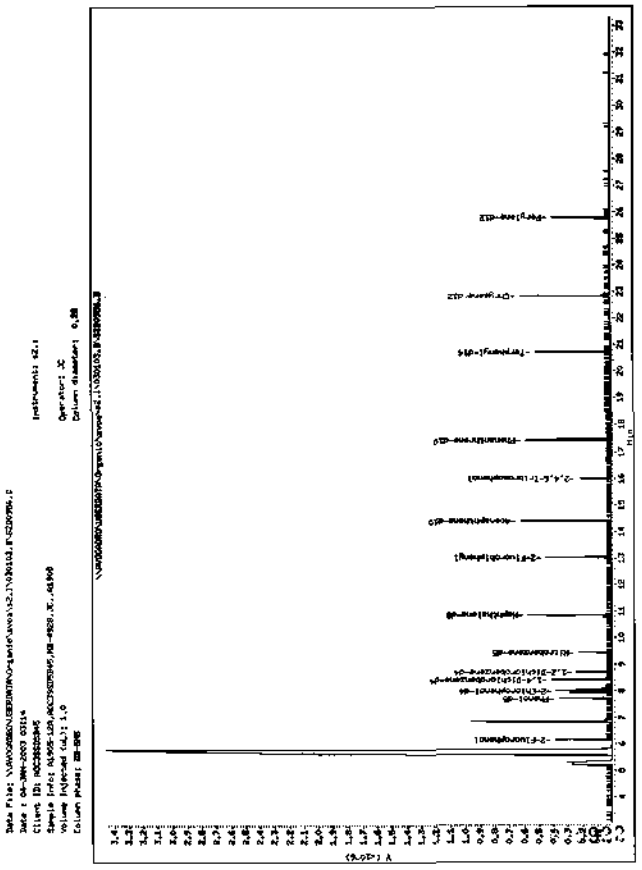
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.92	930	J
2.		UNKNOWN	8.08	250	J
3.		UNKNOWN	10.76	150	J
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					



Data File: S2D0956.D
Report Date: 29-Jan-2003 09:45

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0956.D
Lab Smp Id: A1905-12A Client Smp ID: AOC3SSD5B45
Inj Date : 04-JAN-2003 03:14
Operator : JC Inst ID: s2.i
Smp Info : A1905-12A,AOC3SSD5B45,MB-4928,JC,,A1905
Misc Info : 0,,,1,,,,30.0,,,24-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\s2_8270C.m
Meth Date : 24-Jan-2003 13:27 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	10.000	% Moisture

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS On-COLUMN (ng)	FINAL (ug/kg)
1 2-Fluorophenol	112	6.150	6.106	(0.730)	175147	40.2698	1800
5 Phenol-d5	99	7.715	7.653	(0.918)	353432	41.7771	1500
9 2-Chlorophenol-d4	132	8.067	7.973	(0.950)	388462	41.2973	1500
* 12 1,4-Dichlorobenzene-d4	152	8.428	8.406	(1.000)	673963	40.0000	
16 1,2-Dichlorobenzene-d4	152	8.760	8.686	(1.038)	94409	39.3106	1600
22 Nitrobenzene-d5	82	9.453	9.431	(0.871)	114390	26.6272	990
* 31 Naphthalene-d8	136	10.857	10.848	(1.000)	889289	40.0000	
41 2-Fluorobiphenyl	172	13.067	13.015	(0.908)	353824	39.5106	1600
* 48 Acenaphthene-d10	164	14.298	14.266	(1.000)	283577	40.0000	
60 2,4,6-Tribromophenol	330	16.906	16.994	(0.919)	83548	34.4343	1300(E)
* 64 Phenanthrene-d10	188	17.613	17.613	(1.000)	478595	40.0000	
72 Terphenyl-d14	244	20.727	20.695	(0.987)	284216	28.4722	1100(E)
* 76 Chrysene-d12	240	22.819	22.827	(1.000)	427392	40.0000	

000923

Data File: S2D0956.D
Report Date: 29-Jan-2003 09:45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS On-COLUMN (ng)	FINAL (ug/kg)
* 83 Perylene-d12	264	25.757	25.754	(1.000)	257711	40.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

1/29/03

000924

Data File: S2D0956.D
Report Date: 29-Jan-2003 09:45

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0956.D
Lab Smp Id: A1905-12A Client Smp ID: AOC3SSD5B45
Inj Date : 04-JAN-2003 03:14
Operator : JC Inst ID: s2.i
Smp Info : A1905-12A,AOC3SSD5B45,MB-4928,JC,,A1905
Misc Info : 0,,,1,,,,30.0,,,24-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\s2_8270C.m
Meth Date : 24-Jan-2003 13:27 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	10.000	% Moisture

ISTD	RT	AREA	AMOUNT
* 12 1,4-Dichlorobenzene-d4	8.428	673963	40.000
* 31 Naphthalene-d8	10.857	889289	40.000

RT	AREA	CONCENTRATIONS On-COLUMN (ng)	FINAL (ug/kg)	QUAL	LIBRARY	LIB ENTRY	CAS #
Unknown			CAS #s				
7.920	421949	25.0435113	930	9		0	12

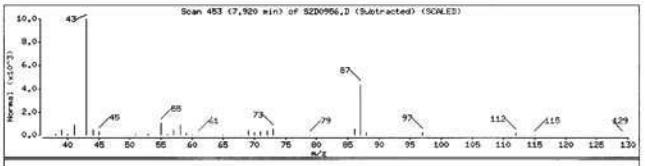
000925

Data File: S2D0956.D
Report Date: 29-Jan-2003 09:45

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUANT QUAL	LIBRARY	LIB ENTRY	CMPD #
Unknown				CAS #:			
8.082	115809	6.87331500	250	0		0	12
Unknown				CAS #:			
10.760	91218	4.10830723	150	0		0	31

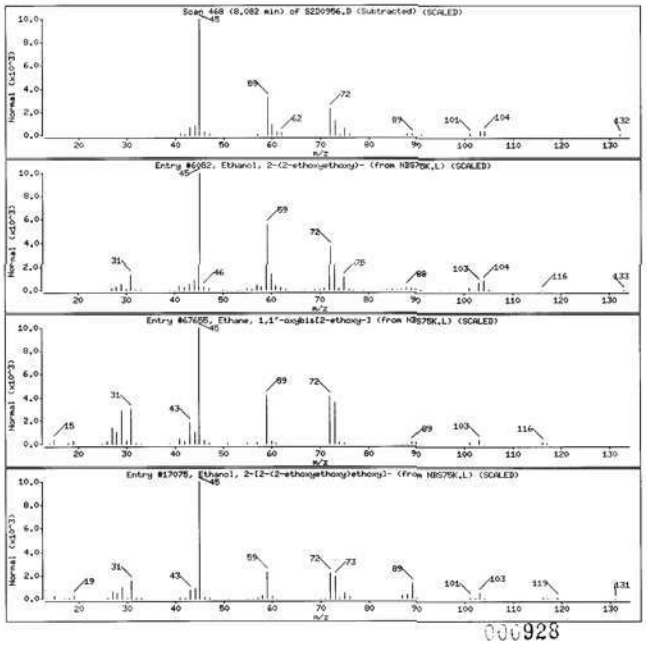
Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030103.B\S2D0956.D
Date : 04-JAN-2003 03:14
Client ID: A0C3SSD5B45 Instrument: s2.i
Sample Info: A1905-12A,A0C3SSD5B45,MB-4928,JC,,A1905
Volume Injected (uL): 1.0 Operator: JC
Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



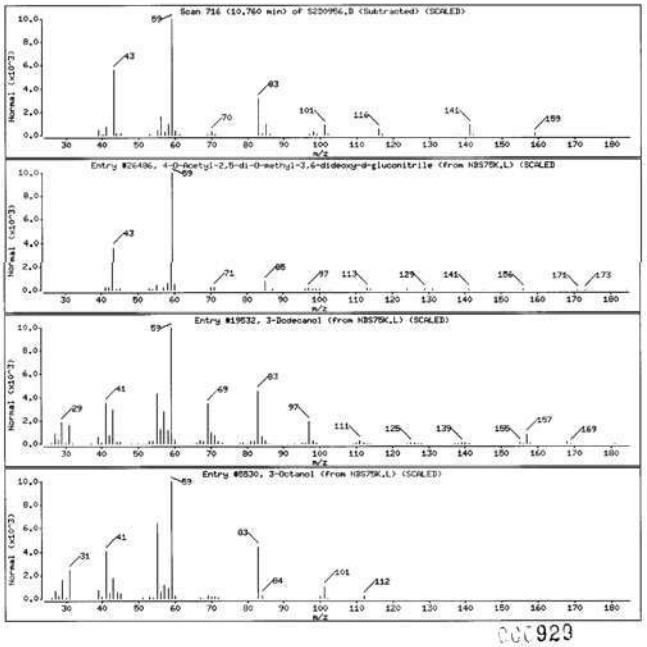
Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030103.B\S2D0956.D
Date : 04-JAN-2003 03:14
Client ID: A0C3SSD5B45 Instrument: s2.i
Sample Info: A1905-12A,A0C3SSD5B45,MB-4928,JC,,A1905
Volume Injected (uL): 1.0 Operator: JC
Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	NBS75K.L	6082	83	C6H14O3	134
Ethane, 1,1'-oxybis[2-ethoxy-]	112-36-7	NBS75K.L	67655	72	C8H18O3	162
Ethanol, 2-[2-(2-ethoxyethoxy)ethoxy]-	112-50-5	NBS75K.L	17078	39	C8H18O4	178



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030103.B\S2D0956.D
Date : 04-JAN-2003 03:14
Client ID: A0C3SSD5B45 Instrument: s2.i
Sample Info: A1905-12A,A0C3SSD5B45,MB-4928,JC,,A1905
Volume Injected (uL): 1.0 Operator: JC
Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
4-O-Acetyl-2,5-di-O-methyl-3,6-dideoxy-d	0-00-0	NBS75K.L	26486	47	C10H17NO4	215
3-Dodecanol	10203-30-2	NBS75K.L	19532	39	C12H26O	186
3-Octanol	20296-29-1	NBS75K.L	6830	39	C8H18O	130



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB4945

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-13A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S2D0957

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 11 decanted: (Y/N) N Date Extracted: 12/24/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	370	U
111-44-4	bis(2-Chloroethyl)Ether	370	U
95-57-8	2-Chlorophenol	370	U
541-73-1	1,3-Dichlorobenzene	370	U
106-46-7	1,4-Dichlorobenzene	370	U
95-50-1	1,2-Dichlorobenzene	370	U
95-48-7	2-Methylphenol	370	U
108-60-1	2,2'-oxybis(1-Chloropropane)	370	U
106-44-5	4-Methylphenol	370	U
621-64-7	N-Nitroso-di-n-propylamine	370	U
67-72-1	Hexachloroethane	370	U
98-95-3	Nitrobenzene	370	U
78-59-1	Isophorone	370	U
88-75-5	2-Nitrophenol	370	U
105-67-9	2,4-Dimethylphenol	370	U
120-83-2	2,4-Dichlorophenol	370	U
120-82-1	1,2,4-Trichlorobenzene	370	U
91-20-3	Naphthalene	370	U
106-47-8	4-Chloroaniline	370	U
111-91-1	bis(2-Chloroethoxy)methane	370	U
87-68-3	Hexachlorobutadiene	370	U
59-50-7	4-Chloro-3-Methylphenol	370	U
91-57-6	2-Methylnaphthalene	370	U
77-47-4	Hexachlorocyclopentadiene	370	U
88-06-2	2,4,6-Trichlorophenol	370	U
95-95-4	2,4,5-Trichlorophenol	750	U
91-58-7	2-Chloronaphthalene	370	U
88-74-4	2-Nitroaniline	750	U
131-11-3	Dimethylphthalate	370	U
208-96-8	Acenaphthylene	370	U
606-20-2	2,6-Dinitrotoluene	370	U
99-09-2	3-Nitroaniline	750	U
83-32-9	Acenaphthene	370	U

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB4945

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-13A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S2D0957

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 11 decanted: (Y/N) N Date Extracted: 12/24/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	750	U
100-02-7	4-Nitrophenol	750	U
132-64-9	Dibenzofuran	370	U
121-14-2	2,4-Dinitrotoluene	370	U
84-66-2	Diethylphthalate	370	U
7005-72-3	4-Chlorophenyl-phenylether	370	U
86-73-7	Fluorene	370	U
100-01-6	4-Nitroaniline	750	U
534-52-1	4,6-Dinitro-2-methylphenol	750	U
86-30-6	N-Nitrosodiphenylamine (1)	370	U
101-55-3	4-Bromophenyl-phenylether	370	U
118-74-1	Hexachlorobenzene	370	U
87-86-5	Pentachlorophenol	750	U
85-01-8	Phenanthrene	370	U
120-12-7	Anthracene	370	U
86-74-8	Carbazole	370	U
84-74-2	Di-n-butylphthalate	370	U
206-44-0	Fluoranthene	370	U
129-00-0	Pyrene	370	U
85-68-7	Butylbenzylphthalate	370	U
91-94-1	3,3'-Dichlorobenzidine	370	U
56-55-3	Benzo(a)anthracene	370	U
218-01-9	Chrysene	370	U
117-81-7	bis(2-Ethylhexyl)phthalate	370	U
117-84-0	Di-n-octylphthalate	370	U
205-99-2	Benzo(b)fluoranthene	370	U
207-08-9	Benzo(k)fluoranthene	370	U
50-32-8	Benzo(a)pyrene	370	U
193-39-5	Indeno(1,2,3-cd)pyrene	370	U
53-70-3	Dibenzo(a,h)anthracene	370	U
191-24-2	Benzo(g,h,i)perylene	370	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3SSTB4945

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-13A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S2D0957

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 11 decanted: (Y/N) N Date Extracted: 12/24/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

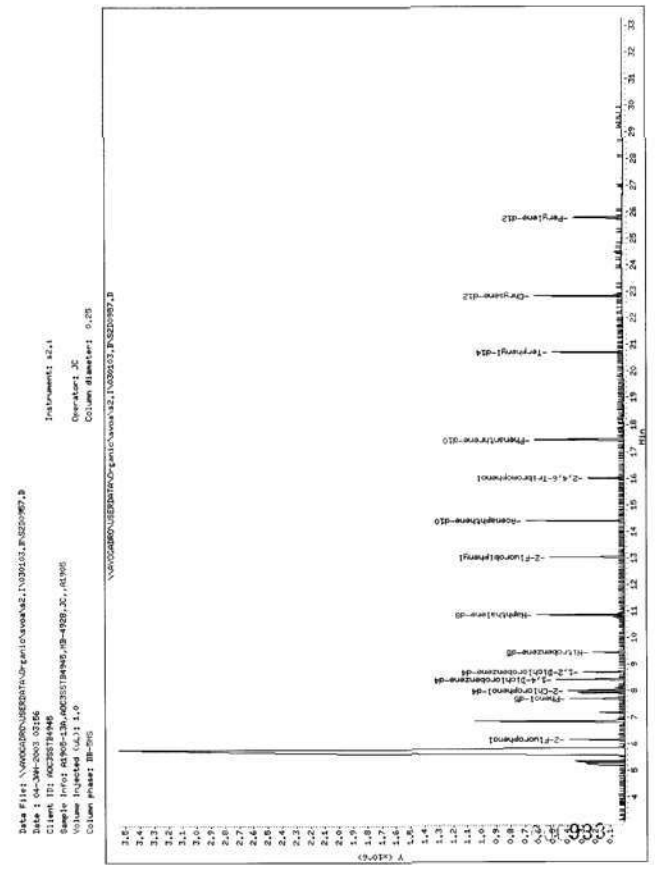
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 5

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.92	1100	J
2.	UNKNOWN	8.08	230	J
3.	UNKNOWN	10.76	170	J
4.	UNKNOWN	24.48	170	J
5.	UNKNOWN	29.24	170	J
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM03.0



Data File: S2D0957.D
Report Date: 29-Jan-2003 09:45

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0957.D
Lab Smp Id: A1905-13A Client Smp ID: AOC3SSTB4945
Inj Date : 04-JAN-2003 03:56
Operator : JC Inst ID: s2.i
Smp Info : A1905-13A,AOC3SSTB4945,MB-4928,JC,,A1905
Misc Info : 0,,,1,,,,30.2,,,24-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\s2_8270C.m
Meth Date : 24-Jan-2003 13:27 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.200	Weight of sample extracted (g)
M	11.000	% Moisture

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
$	3 2-Fluorophenol	112	6.183	6.184	(0.733)	1958176	41.6234	1600
$	8 Phenol-d5	99	7.718	7.693	(0.917)	2548894	42.4829	1600
$	9 2-Chlorophenol-d4	132	8.005	7.973	(0.951)	2644606	41.9376	1600
*	12 1,4-Dichlorobenzene-d4	152	8.419	8.409	(1.000)	716351	40.0000	
$	14 1,2-Dichlorobenzene-d4	152	8.706	8.686	(1.033)	50004	38.4146	1600
$	22 Nitrobenzene-d5	82	9.454	9.431	(0.871)	122986	34.3500	1600
*	31 Naphthalene-d8	136	10.889	10.856	(1.000)	951715	40.0000	
$	42 2-Fluorobiphenyl	172	11.969	12.015	(0.909)	795471	39.1264	1100
*	48 Acenaphthene-d10	164	14.400	14.366	(1.000)	256014	40.0000	
$	59 2,4,6-Tribromophenol	330	16.808	16.394	(0.918)	61823	43.0939	1500
*	64 Phenanthrene-d10	188	17.444	17.419	(1.000)	660941	40.0000	
$	72 Terphenyl-d14	244	20.735	20.680	(0.807)	288918	39.3572	1100(E)
*	76 Chrysene-d12	240	22.642	22.899	(1.000)	424317	40.0000	

Data File: S2D0957.D
Report Date: 29-Jan-2003 09:45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS On COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
* 83 Perylene-d12	264	25.789	25.744	(1.000)	882928	40.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

1/29/03

Data File: S2D0957.D
Report Date: 29-Jan-2003 09:45

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0957.D
Lab Smp Id: A1905-13A Client Smp ID: AOC3SSTB4945
Inj Date : 04-JAN-2003 03:56
Operator : JC Inst ID: s2.i
Smp Info : A1905-13A,AOC3SSTB4945,MB-4928,JC,,A1905
Misc Info : 0,,,1,,,,30.2,,,24-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\s2_8270C.m
Meth Date : 24-Jan-2003 13:27 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.200	Weight of sample extracted (g)
M	11.000	% Moisture

ISTD	RT	AREA	AMOUNT
* 12 1,4-Dichlorobenzene-d4	8.419	716351	40.000
* 31 Naphthalene-d8	10.859	951715	40.000
* 83 Perylene-d12	25.789	882928	40.000

RT	AREA	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL(ug/Kg)	QUANT QUAL	QUANT LIBRARY	QUANT T/R ENTRY	QUANT CMPD #
Unknown			CAS #:				
7.923	541238	30.351621%	1100	0		0	53

Data File: S2D0957.D
Report Date: 29-Jan-2003 09:45

RT	AREA	CONCENTRATIONS ON-COL (ng)	CONCENTRATIONS FINAL(ug/Kg)	QUANT QUAL	QUANT LIBRARY	QUANT T/R ENTRY	QUANT CMPD #
Unknown			CAS #:				
8.085	111152	6.26858637	230	0		0	33
Unknown			CAS #:				
10.762	107161	6.80758126	170	0		0	51
Unknown			CAS #:				
25.892	100232	6.34264476	170	0		0	83
Unknown			CAS #:				
25.243	103028	6.44747068	170	0		0	83

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030103.B\S2D0957.D

Date : 04-JAN-2003 03:56

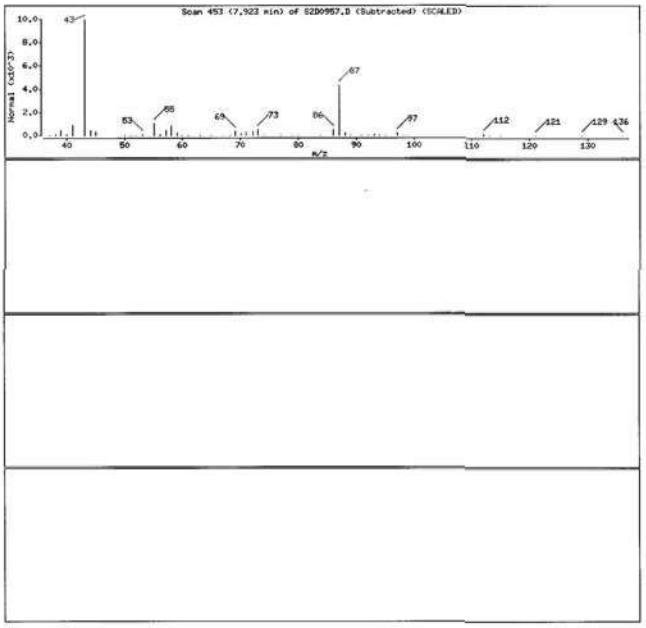
Client ID: AOC3SST84945 Instrument: s2.i

Sample Info: A1905-13A,AOC3SST84945,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030103.B\S2D0957.D

Date : 04-JAN-2003 03:56

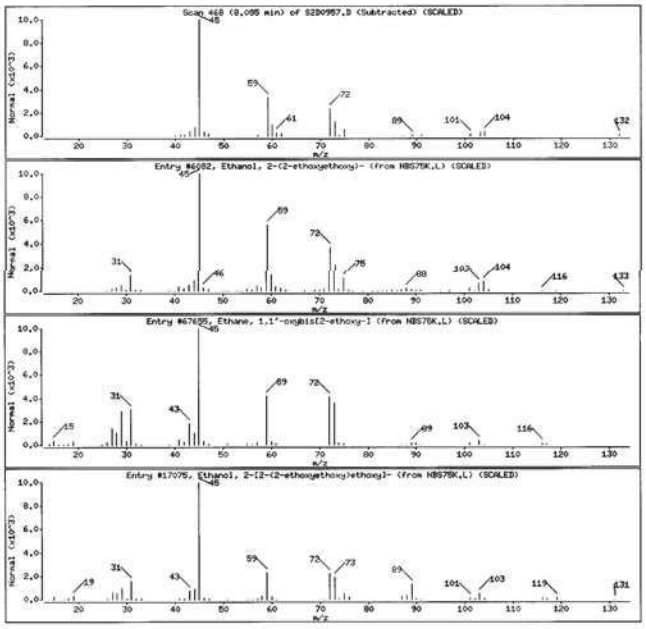
Client ID: AOC3SST84945 Instrument: s2.i

Sample Info: A1905-13A,AOC3SST84945,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	NBS75K.L	6682	83	C6H14O3	134
Ethane, 1,1'-oxybis[2-ethoxy-]	112-36-7	NBS75K.L	67655	72	C8H18O3	162
Ethanol, 2-[2-(2-ethoxyethoxy)ethoxy]-	112-50-5	NBS75K.L	17075	39	C8H18O4	178



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030103.B\S2D0957.D

Date : 04-JAN-2003 03:56

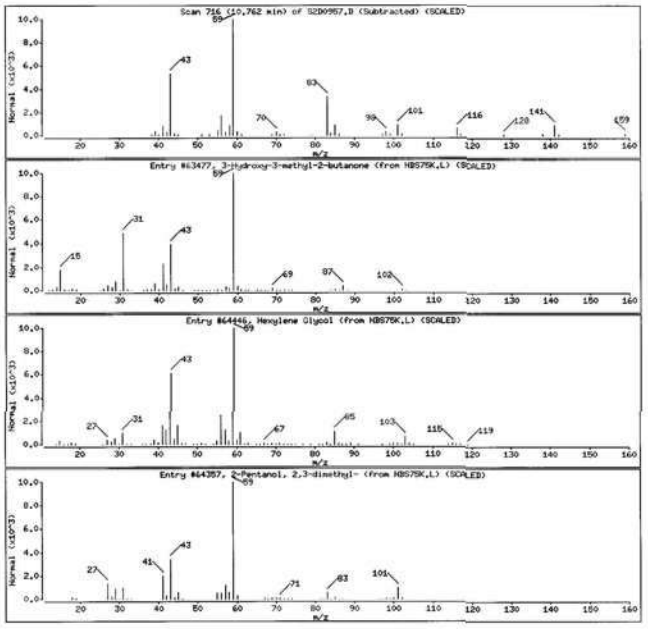
Client ID: AOC3SST84945 Instrument: s2.i

Sample Info: A1905-13A,AOC3SST84945,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
3-Hydroxy-3-methyl-2-butanone	115-22-0	NBS75K.L	63477	43	C5H10O2	102
Hexylene Glycol	107-41-5	NBS75K.L	64446	42	C6H14O2	118
2-Pentanol, 2,3-dimethyl-	4911-70-0	NBS75K.L	64357	42	C7H16O	116



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030103.B\S2D0957.D

Date : 04-JAN-2003 03:56

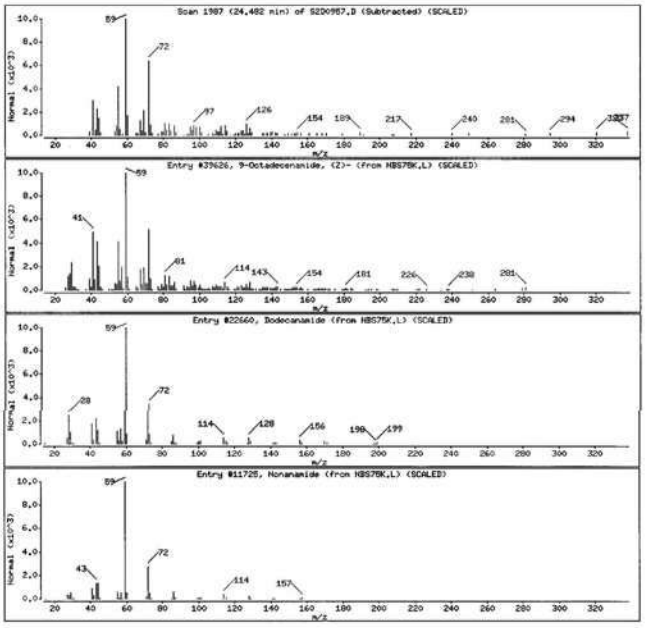
Client ID: AOC3SST84945 Instrument: s2.i

Sample Info: A1905-13A,AOC3SST84945,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
9-Octadecenamide, (Z)-	301-02-0	NBS75K.L	39626	64	C18H35NO	281
Dodecanamide	1120-16-7	NBS75K.L	22660	45	C12H25NO	199
Nonanamide	1120-07-6	NBS75K.L	11725	42	C9H19NO	157



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0957.D

Date : 04-JAN-2003 03:56

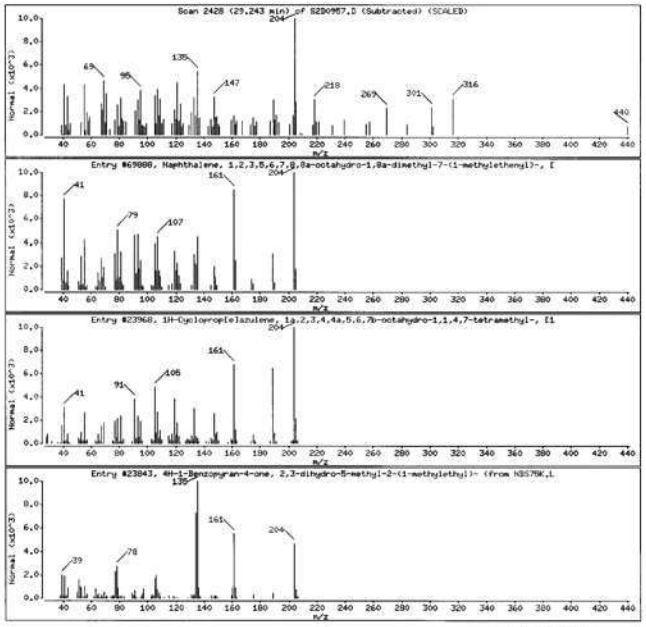
Client ID: AOC3SSTB4945 Instrument: s2.i

Sample Info: A1905-13B,AOC3SSTB4945,MB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	4630-07-3	NBS75K.L	69888	40	C10H24	204
1H-Cyclopropa[e]azulene, 1a,2,3,4,4a,5,6,	489-40-7	NBS75K.L	23968	80	C15H24	204
4H-1-Benzopyran-4-one, 2,3-dihydro-5-met	69687-92-9	NBS75K.L	23843	38	C13H1602	204



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC3SSTB5312

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-05C

Sample wt/vol: 30.6 (g/mL) G Lab File ID: S2D0953

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 7 decanted: (Y/N) N Date Extracted:12/24/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)Ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-Methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	710	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	710	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	710	U
83-32-9	Acenaphthene	350	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC3SSTB5312

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-05C

Sample wt/vol: 30.6 (g/mL) G Lab File ID: S2D0953

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 7 decanted: (Y/N) N Date Extracted:12/24/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	710	U
100-02-7	4-Nitrophenol	710	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	710	U
534-52-1	4,6-Dinitro-2-methylphenol	710	U
86-30-6	N-Nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	710	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	350	U
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenzo(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

AOC3SSTB5312

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-05C

Sample wt/vol: 30.6 (g/mL) G Lab File ID: S2D0953

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 7 decanted: (Y/N) N Date Extracted:12/24/02

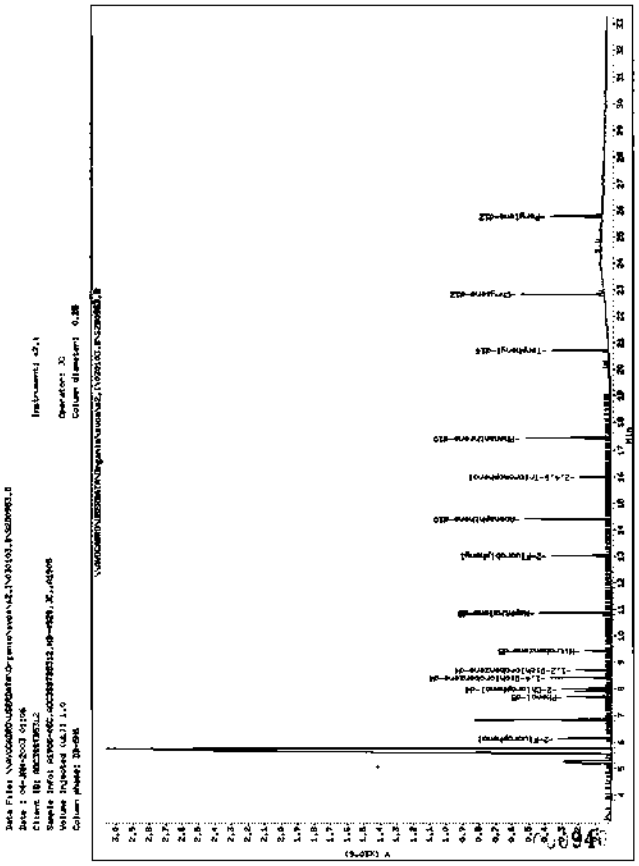
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.91	750	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					



000946

Data File: S2D0953.D
Report Date: 29-Jan-2003 09:44

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0953.D
Lab Smp Id: A1905-05C Client Smp ID: AOC3SSTB5312
Inj Date : 04-JAN-2003 01:06
Operator : JC Inst ID: s2.i
Smp Info : A1905-05C,AOC3SSTB5312,MB-4928,JC,,A1905
Misc Info : 0,,,1,,,,30.6,,,24-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\s2_8270C.m
Meth Date : 24-Jan-2003 13:27 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.600	Weight of sample extracted (g)
M	7.000	% Moisture

	Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
3	2-Fluorophenol	112	6.119	6.126	(0.729)	140761	61.1647	1400
8	Phenol-d5	99	7.715	7.693	(0.917)	176195	60.3498	1400
9	2-Chlorophenol-d4	132	7.996	7.533	(0.950)	164510	60.7780	1400
*	12 1,4-Dichlorobenzene-d4	152	8.417	8.405	(1.000)	99031	40.0000	
14	1,2-Dichlorobenzene-d4	152	8.497	8.486	(1.013)	68468	27.3253	960
22	Nitrobenzene-d5	82	9.449	9.431	(0.670)	65899	25.7637	900
*	31 Naphthalene-d8	136	10.967	10.948	(1.000)	369916	40.0000	
41	2-Fluorobiphenyl	172	11.525	11.515	(0.598)	174703	27.3855	960
*	49 Acenaphthene-d10	164	11.787	11.786	(1.000)	195580	40.0000	
60	2,4,6-Tribromophenol	330	12.806	12.794	(0.618)	44734	40.0428	1400
*	64 Phenanthrene-d10	188	13.631	13.619	(1.000)	336869	40.0000	
72	Terphenyl-d14	244	20.711	20.690	(0.907)	282253	27.5834	3700(E)
*	76 Chrysene-d12	240	22.819	22.827	(1.000)	314314	40.0000	

000947

Data File: S2D0953.D
Report Date: 29-Jan-2003 09:44

Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
* 85 Perylene-d12	264	25.786	25.364	(1.000)	212694	40.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

1/29/03

000948

Data File: S2D0953.D
Report Date: 29-Jan-2003 09:44

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0953.D
Lab Smp Id: A1905-05C Client Smp ID: AOC3SSTB5312
Inj Date : 04-JAN-2003 01:06
Operator : JC Inst ID: s2.i
Smp Info : A1905-05C,AOC3SSTB5312,MB-4928,JC,,A1905
Misc Info : 0,,,1,,,,30.6,,,24-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\s2_8270C.m
Meth Date : 24-Jan-2003 13:27 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.600	Weight of sample extracted (g)
M	7.000	% Moisture

ISTD	RT	AREA	AMOUNT
* 12 1,4-Dichlorobenzene-d4	8.417	523720	40.000

RT	AREA	CONCENTRATIONS ON-COLU ng	CONCENTRATIONS FINAL(ug/Kg)	QUAL QUAN.	LIBRARY	LIB SEARCH	CAS #
Unknown			ISA S.				
7.905	279333	21.3349882	756	Q		0	12

000949

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.i\030103.B\S2D0963.D

Date : 04-JAN-2003 01:06

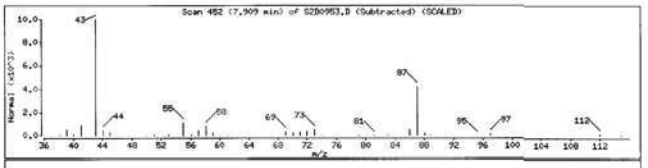
Client ID: AOC3SSTB5312 Instruments: s2.i

Sample Info: A1905-05C,AOC3SSTB5312,MS-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC3SSTB5312RE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-05CRE

Sample wt/vol: 30.9 (g/mL) G Lab File ID: S2D1274

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 7 decanted: (Y/N) N Date Extracted: 01/20/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	340	U
111-44-4	bis(2-Chloroethyl)Ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	2,2'-oxybis(1-Chloropropane)	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
111-91-1	bis(2-Chloroethoxy)methane	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-Methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	700	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	700	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U
606-20-2	2,6-Dinitrotoluene	340	U
99-09-2	3-Nitroaniline	700	U
83-32-9	Acenaphthene	340	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC3SSTB5312RE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-05CRE

Sample wt/vol: 30.9 (g/mL) G Lab File ID: S2D1274

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 7 decanted: (Y/N) N Date Extracted: 01/20/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	700	U
100-02-7	4-Nitrophenol	700	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	700	U
534-52-1	4,6-Dinitro-2-methylphenol	700	U
86-30-6	N-Nitrosodiphenylamine (1)	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	700	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
86-74-8	Carbazole	340	U
84-74-2	Di-n-butylphthalate	340	U
206-44-0	Fluoranthene	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	340	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-octylphthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U
53-70-3	Dibenzo(a,h)anthracene	340	U
191-24-2	Benzo(g,h,i)perylene	340	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: AOC3SSTB5312RE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-05CRE

Sample wt/vol: 30.9 (g/mL) G Lab File ID: S2D1274

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 7 decanted: (Y/N) N Date Extracted: 01/20/03

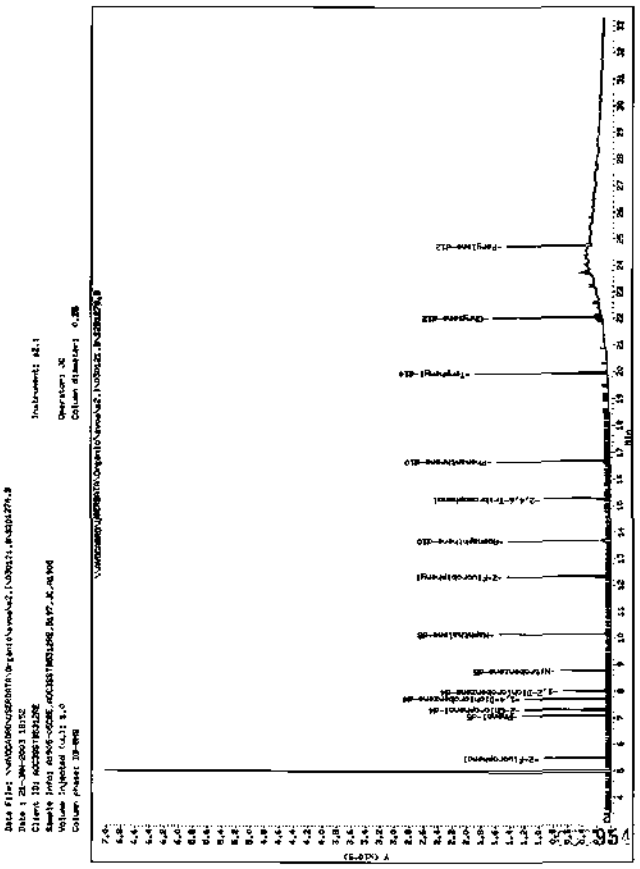
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	23.73	150	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					



Data File: S2D1274.D
Report Date: 29-Jan-2003 10:33

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1274.D
Lab Smp Id: A1905-05CRE Client Smp ID: AOC3SSTB5312RE
Inj Date : 21-JAN-2003 18:52
Operator : JC Inst ID: s2.i
Smp Info : A1905-05CRE,AOC3SSTB5312RE,5197,JC,A1905
Misc Info : 0,,,2,,,,30.9,7,,20-JAN-03,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\s2_8270C.m
Meth Date : 27-Jan-2003 11:54 mtl Quant Type: ISTD
Cal Date : 18-JAN-2003 12:56 Cal File: S2D1202.D ✓
Als bottle: 40
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.900 ✓	Weight of sample extracted (g)
M	7.000 ✓	% Moisture

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ng/Kg)
5 2-Fluorophenol	112	5.805	5.804	(0.731)	80134	48.1218	1900
8 Phenol-d5	99	7.053	7.104	(0.891)	67272	52.0133	1800
9 2-Chlorophenol-d4	132	7.130	7.141	(0.897)	55720	51.5756	1800
* 12 1,4-Dichlorobenzene-d4	152	7.740	7.752	(1.000)	33534	40.0000	ng
14 1,2-Dichlorobenzene-d4	152	8.010	8.021	(1.036)	79086	38.0797	1000
22 Nitrobenzene-d5	82	8.766	8.777	(0.956)	13618	33.9378	1100
* 31 Naphthalene-d8	136	10.147	10.159	(1.000)	333363	40.0000	
41 2-Fluorobiphenyl	172	12.317	12.328	(0.902)	74798	36.3938	1300
* 48 Acenaphthene-d10	164	13.656	13.667	(1.000)	69826	40.0000	
49 2,4,6-Tribromophenol	330	15.364	15.375	(0.916)	20265	67.2080	2300
* 64 Phenanthrene-d10	188	16.668	16.678	(1.000)	262647	40.0000	
72 Terphenyl-d14	244	19.549	19.560	(0.909)	91250	47.1470	1600
* 76 Chrysene-d12	240	22.033	22.055	(1.000)	94211	40.0000	

Data File: S2D1274.D
Report Date: 29-Jan-2003 10:33

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
* 83 Perylene-d12	264	24.764	24.784	(1.000)	64085	40.0000	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

1/29/03

Data File: S2D1274.D
Report Date: 29-Jan-2003 10:33

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1274.D
Lab Smp Id: A1905-05CRE Client Smp ID: AOC3SSTB5312RE
Inj Date : 21-JAN-2003 18:52
Operator : JC Inst ID: s2.i
Smp Info : A1905-05CRE,AOC3SSTB5312RE,5197,JC,A1905
Misc Info : 0,,,2,,,,30.9,7,,20-JAN-03,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\s2_8270C.m
Meth Date : 27-Jan-2003 11:54 mtl Quant Type: ISTD
Cal Date : 18-JAN-2003 12:56 Cal File: S2D1202.D
Als bottle: 40
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.900	Weight of sample extracted (g)
M	7.000	% Moisture

ISTD	RT	AREA	AMOUNT
* 83 Perylene-d12	24.764	249722	40.000

RT	AREA	CONCENTRATIONS ON-COLU(ng)	FINAL(ng/Kg)	QUAL	QUANT LIBRARY	LIB ENTRY	CAS #
Unknown			CAS #:				
21.731	25156	4.84979697	160	Q		0	65

Data File: \\NVOGAIRO\USERDATA\Organic\svoa\s2,I\030121,B\S2D1274,D

Date : 21-JAN-2003 18:52

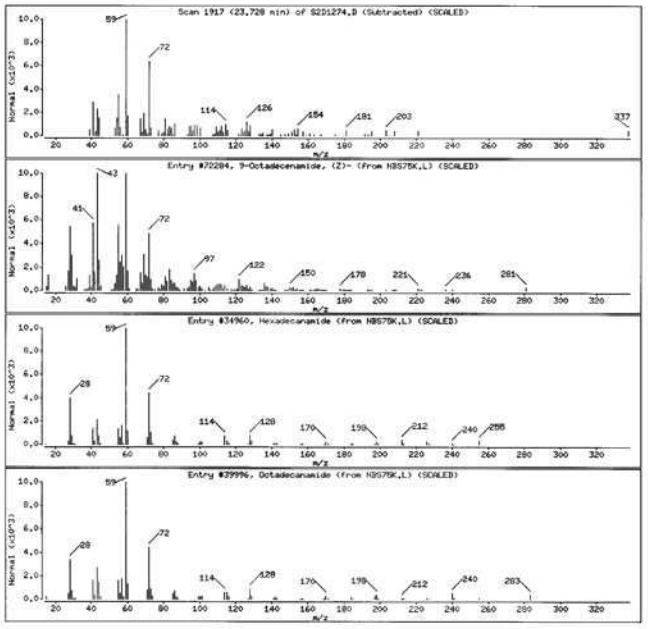
Client ID: AOC3SST85312RE Instrument: s2,i

Sample Info: A1905-05CRE,AOC3SST85312RE,5197,JC,A1906

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
9-Octadecenamide, (Z)-	301-02-0	NBS75K.L	72284	59	C18H35NO	281
Hexadecanamide	629-54-9	NBS75K.L	34960	56	C16H33NO	255
Octadecanamide	124-26-5	NBS75K.L	39996	53	C18H37NO	283



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC3SSTB5402

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-06C

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S2D0954

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 9 decanted: (Y/N) N Date Extracted: 12/24/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)Ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-Methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	730	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	730	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	730	U
83-32-9	Acenaphthene	360	U

FORM I SV-1 OLM03.0

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC3SSTB5402

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-06C

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S2D0954

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 9 decanted: (Y/N) N Date Extracted: 12/24/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	730	U
100-02-7	4-Nitrophenol	730	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroanilline	730	U
534-52-1	4,6-Dinitro-2-methylphenol	730	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	730	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenzo(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	360	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.: AOC3SSTB5402

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-06C

Sample wt/vol: 30.3 (g/mL) G Lab File ID: S2D0954

Level: (low/med) LOW *Date Received: 12/23/02*

% Moisture: 9 decanted: (Y/N) N Date Extracted: 12/24/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/04/03

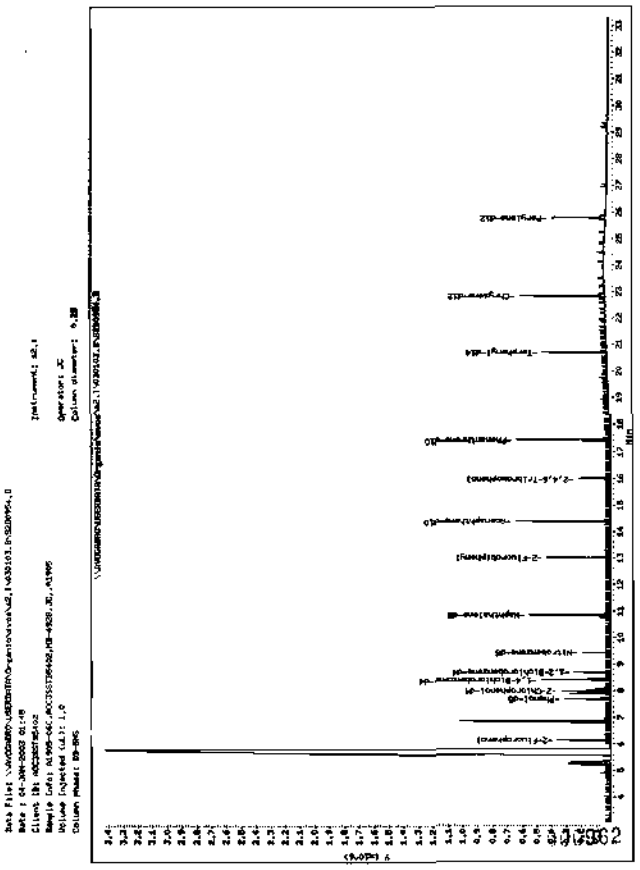
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	7.91	800	J
2.		UNKNOWN	8.08	290	J
3.		UNKNOWN	10.76	160	J
4.		UNKNOWN	24.48	150	J
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC OLM03.0



Data File: S2D0954.D
Report Date: 29-Jan-2003 09:44

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0954.D
Lab Smp Id: A1905-06C Client Smp ID: AOC3SSTB5402
Inj Date : 04-JAN-2003 01:48
Operator : JC Inst ID: s2.i
Smp Info : A1905-06C,AOC3SSTB5402,MB-4928,JC,,A1905
Misc Info : 0,,,1,,,,30.3,,,24-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\s2_8270C.m
Meth Date : 24-Jan-2003 13:27 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.300	Weight of sample extracted (g)
M	9.000	% Moisture

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
$	3 2-Fluorophenol	112	6.160	6.166	(0.733)	157265	44.6242	1500
$	5 Phenol-d5	99	7.716	7.693	(0.917)	212416	46.6365	1500
$	9 2-Chlorophenol-d4	132	7.996	7.973	(0.948)	166834	39.4179	1300
*	12 1,4-Dichlorobenzene-d4	152	8.417	8.404	(1.000)	691743	40.0000	
$	14 1,2-Dichlorobenzene-d4	152	8.698	8.685	(1.033)	69048	21.9478	870
$	22 Nitrobenzene-d5	82	9.443	9.451	(0.890)	102195	21.3238	840
*	31 Naphthalene-d8	136	10.857	10.866	(1.000)	904356	40.0000	
$	41 2-Fluorobiphenyl	172	13.037	13.016	(0.909)	915739	36.4815	930(R)
*	48 Acenaphthene-d10	164	14.338	14.386	(1.000)	250906	40.0000	
$	60 2,4,6-Tribromophenol	330	16.008	16.398	(0.918)	92740	25.7607	1300(R)
*	64 Phenanthrene-d10	188	17.531	17.619	(1.000)	416240	40.0000	
$	72 Terphenyl-d14	244	20.713	20.698	(0.987)	351250	26.9199	970(R)
*	76 Chrysene-d12	240	22.840	22.827	(1.000)	402908	40.0000	

Data File: S2D0954.D
Report Date: 29-Jan-2003 09:44

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
* 83 Perylene-d12	264	25.787	25.764	(1.000)	25[illegible]	40.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

1/31/03

Data File: S2D0954.D
Report Date: 29-Jan-2003 09:44

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0954.D
Lab Smp Id: A1905-06C Client Smp ID: AOC3SSTB5402
Inj Date : 04-JAN-2003 01:48
Operator : JC Inst ID: s2.i
Smp Info : A1905-06C,AOC3SSTB5402,MB-4928,JC,,A1905
Misc Info : 0,,,1,,,,30.3,,,24-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\s2_8270C.m
Meth Date : 24-Jan-2003 13:27 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.300	Weight of sample extracted (g)
M	9.000	% Moisture

ISTD	RT	AREA	AMOUNT
* 12 1,4-Dichlorobenzene-d4	8.417	691743	40.000
* 31 Naphthalene-d8	10.857	904356	40.000
* 83 Perylene-d12	25.787	931250	40.000

RT	AREA	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL(ug/Kg)	QUANT QUAL	QUANT LIBRARY	QUANT LIB ENTRY	QUANT CPND #
Unknown			CAS #:				
7.940	179928	31.9653152	800	9		0	13

Data File: S2D0954.D
Report Date: 29-Jan-2003 09:44

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/Kg)	QUANT QCAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
8.083	139381	8.05969847	290	0		0	12
Unknown				CAS #:			
10.760	101591	4.69340746	168	0		0	31
Unknown				CAS #:			
24.480	95079	4.08393020	150	0		0	83

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0954.D

Date : 04-JAN-2003 01:48

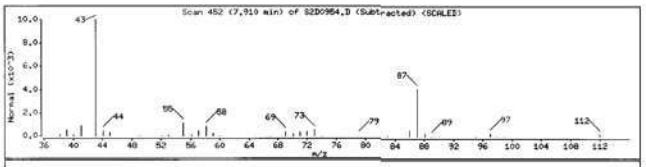
Client ID: AOC3SSTB5402 Instrument: s2.i

Sample Info: A1905-06C,AOC3SSTB5402,HB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0954.D

Date : 04-JAN-2003 01:48

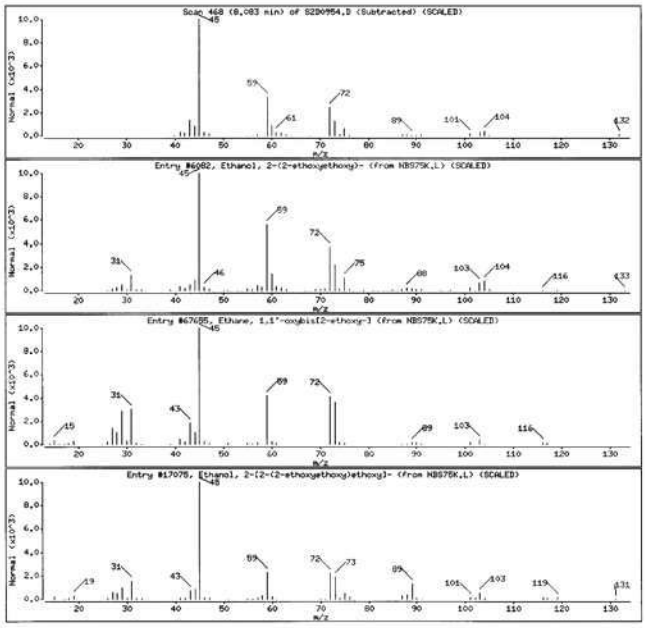
Client ID: AOC3SSTB5402 Instrument: s2.i

Sample Info: A1905-06C,AOC3SSTB5402,HB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Ethanol, 2-(2-ethoxyethoxy)-	111-90-0	NBS75K.L	6082	83	C6H14O3	134
Ethane, 1,1'-oxybis[2-ethoxy-]	112-36-7	NBS75K.L	67655	50	C8H18O3	162
Ethanol, 2-[2-(2-ethoxyethoxy)ethoxy]-	112-50-5	NBS75K.L	17075	39	C8H18O4	178



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0954.D

Date : 04-JAN-2003 01:48

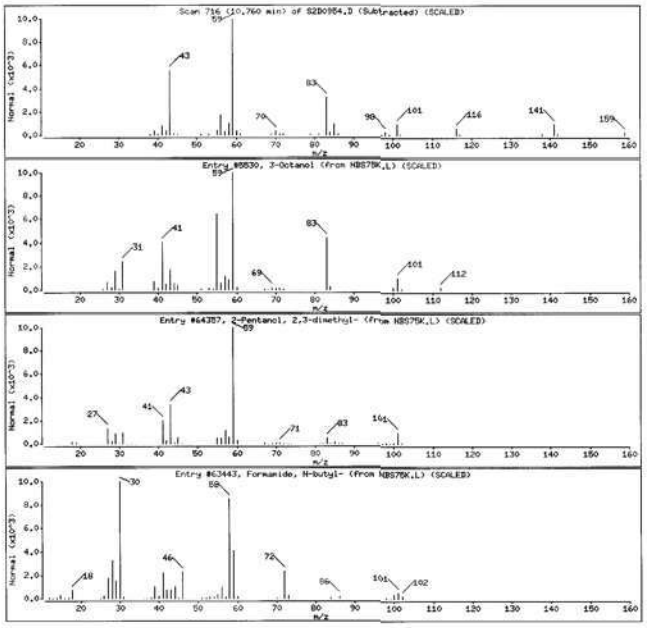
Client ID: AOC3SSTB5402 Instrument: s2.i

Sample Info: A1905-06C,AOC3SSTB5402,HB-4928,JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
3-Octanol	20296-29-1	NBS75K.L	8830	50	C8H18O	130
2-Pentanol, 2,3-dimethyl-	4911-70-0	NBS75K.L	64357	42	C7H16O	116
Formamide, N-butyl-	871-71-6	NBS75K.L	63443	40	C5H11NO	101



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.i\030103.B\S2D0954.D

Date : 04-JAN-2003 01:48

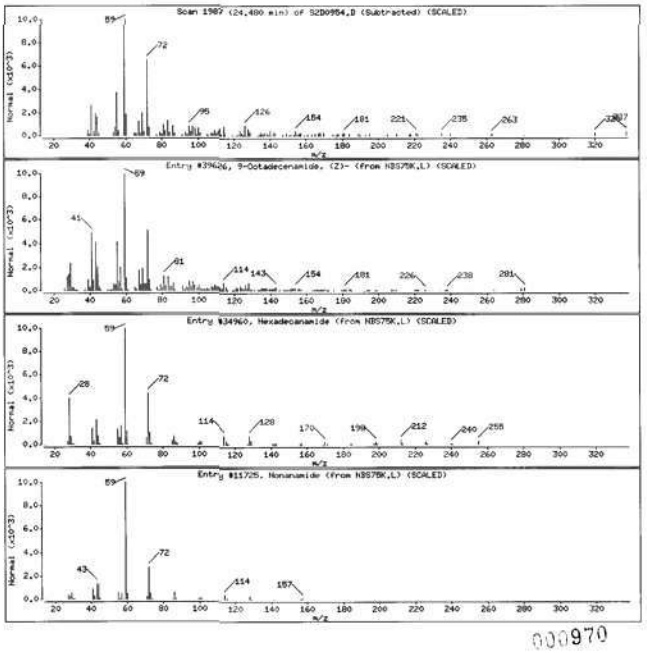
Client ID: AOC3SSTB5402 Instrument: s2.i

Sample Info: A1905-06C,AOC3SSTB5402,MB-4928,IC,,A1906

Volume Injected (uL): 1.0 Operator: JC

Column phase: BB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
9-Octadecenamide, (Z)-	301-02-0	NBS75K.L	39626	83	C18H35NO	281
Hexadecanamide	629-54-9	NBS75K.L	34960	89	C16H33NO	255
Nonanamide	1120-07-6	NBS75K.L	11725	58	C9H19NO	157



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB5402RE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-06CRE

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S2D1275

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 9 decanted: (Y/N) N Date Extracted: 01/20/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)Ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-Methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	730	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	730	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	730	U
83-32-9	Acenaphthene	360	U

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB5402RE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-06CRE

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S2D1275

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 9 decanted: (Y/N) N Date Extracted: 01/20/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	730	U
100-02-7	4-Nitrophenol	730	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	730	U
534-52-1	4,6-Dinitro-2-methylphenol	730	U
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	730	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U
53-70-3	Dibenzo(a,h)anthracene	360	U
191-24-2	Benzo(g,h,i)perylene	360	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
AOC3SSTB5402RE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-06CRE

Sample wt/vol: 30.2 (g/mL) G Lab File ID: S2D1275

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: 9 decanted: (Y/N) N Date Extracted: 01/20/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03

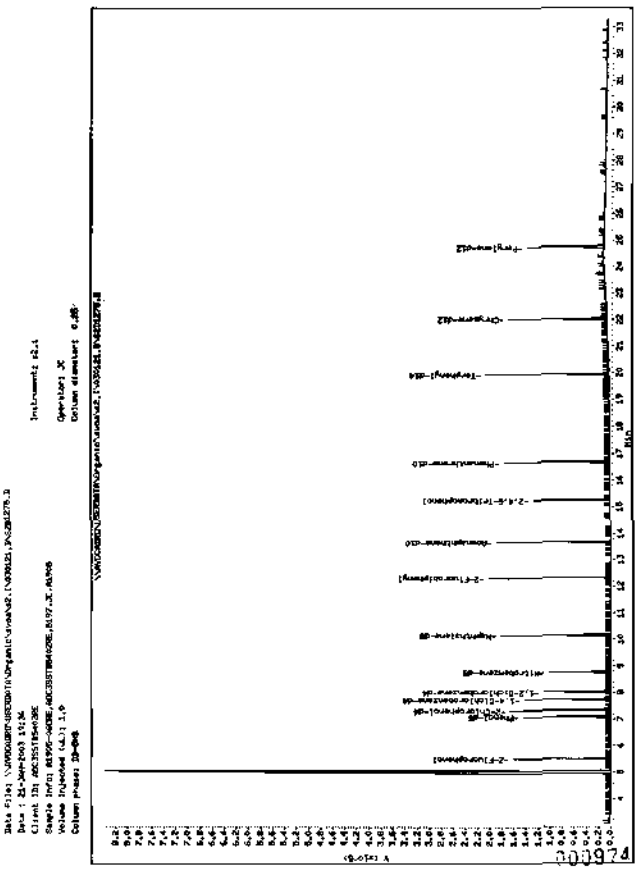
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC OLM03.0



000974

Data File: S2D1275.D
Report Date: 29-Jan-2003 10:33

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1275.D
Lab Smp Id: A1905-06CRE Client Smp ID: AOC3SSTB5402RE
Inj Date : 21-JAN-2003 19:36
Operator : JC Inst ID: s2.i
Smp Info : A1905-06CRE,AOC3SSTB5402RE,5197,JC,A1905
Misc Info : 0,,,2,,,,30.2,9,,20-JAN-03,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\s2_8270C.m
Meth Date : 27-Jan-2003 11:54 mtl Quant Type: ISTD
Cal Date : 16-JAN-2003 12:56 Cal File: S2D1202.D
Als bottle: 41
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*[Vt/Vi]*[1/Ws]*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.200	Weight of sample extracted (g)
M	9.000	% Moisture

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
3 2-Fluorophenol	112	5.526	5.506	(0.713)	70130	56.5398	2000
6 Phenol-d5	99	7.111	7.106	(0.918)	89868	59.6835	2265
9 2-Chlorophenol-d4	132	7.140	7.141	(0.947)	77022	59.8810	2299
* 12 1,4-Dichlorobenzene-d4	152	7.750	7.751	(1.000)	38782	60.0000	(Q)
15 1,2-Dichlorobenzene-d4	152	8.020	8.021	(1.035)	39076	58.1918	1455
22 Nitrobenzene-d5	82	8.776	8.777	(0.844)	45900	57.7520	1400
* 34 Naphthalene-d8	136	10.157	10.158	(1.000)	135376	60.0000	
41 2-Fluorobiphenyl	172	12.327	12.328	(0.902)	98877	60.0954	1400
* 48 Acenaphthene-d10	164	13.666	13.667	(1.000)	72251	60.0000	
60 2,4,6-Tribromophenol	330	15.384	15.375	(0.915)	24037	56.4677	2400
* 64 Phenanthrene-d10	188	16.678	16.679	(1.000)	122633	60.0000	
73 Terphenyl-d14	244	19.549	19.550	(0.905)	108492	49.4674	1400
* 76 Chrysene-d12	240	22.047	22.058	(1.000)	106755	60.0000	

000975

Data File: S2D1275.D
Report Date: 29-Jan-2003 10:33

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1275.D
Lab Smp Id: A1905-06CRE Client Smp ID: AOC3SSTB5402RE
Inj Date : 21-JAN-2003 19:36
Operator : JC Inst ID: s2.i
Smp Info : A1905-06CRE,AOC3SSTB5402RE,5197,JC,A1905
Misc Info : 0,,,2,,,,30.2,9,,20-JAN-03,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\s2_8270C.m
Meth Date : 27-Jan-2003 11:54 mtl Quant Type: ISTD
Cal Date : 16-JAN-2003 12:56 Cal File: S2D1202.D
Als bottle: 41
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.200	Weight of sample extracted (g)
M	9.000	% Moisture

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
3 2-Fluorophenol	112	5.526	5.506	(0.713)	70130	56.5398	2000
6 Phenol-d5	99	7.111	7.106	(0.918)	89868	59.6835	2265
9 2-Chlorophenol-d4	132	7.140	7.141	(0.947)	77022	59.8810	2299
* 12 1,4-Dichlorobenzene-d4	152	7.750	7.751	(1.000)	38782	60.0000	(Q)
15 1,2-Dichlorobenzene-d4	152	8.020	8.021	(1.035)	39076	58.1918	1455
22 Nitrobenzene-d5	82	8.776	8.777	(0.844)	45900	57.7520	1400
* 34 Naphthalene-d8	136	10.157	10.158	(1.000)	135376	60.0000	
41 2-Fluorobiphenyl	172	12.327	12.328	(0.902)	98877	60.0954	1400
* 48 Acenaphthene-d10	164	13.666	13.667	(1.000)	72251	60.0000	
60 2,4,6-Tribromophenol	330	15.384	15.375	(0.915)	24037	56.4677	2400
* 64 Phenanthrene-d10	188	16.678	16.679	(1.000)	122633	60.0000	
73 Terphenyl-d14	244	19.549	19.550	(0.905)	108492	49.4674	1400
* 76 Chrysene-d12	240	22.047	22.058	(1.000)	106755	60.0000	

000975

Data File: S2D1275.D
Report Date: 29-Jan-2003 10:33

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
* 83 Perylene-d12	264	24.783	24.764	(1.000)	78618	60.2305	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

1/31/03

000976

Data File: S2D1275.D
Report Date: 29-Jan-2003 10:33

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1275.D
Lab Smp Id: A1905-06CRE Client Smp ID: AOC3SSTB5402RE
Inj Date : 21-JAN-2003 19:36
Operator : JC Inst ID: s2.i
Smp Info : A1905-06CRE,AOC3SSTB5402RE,5197,JC,A1905
Misc Info : 0,,,2,,,,30.2,9,,20-JAN-03,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\s2_8270C.m
Meth Date : 27-Jan-2003 11:54 mtl Quant Type: ISTD
Cal Date : 18-JAN-2003 12:56 Cal File: S2D1202.D
Als bottle: 41
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5E7

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-14D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0982
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5E7

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-14D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0982
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

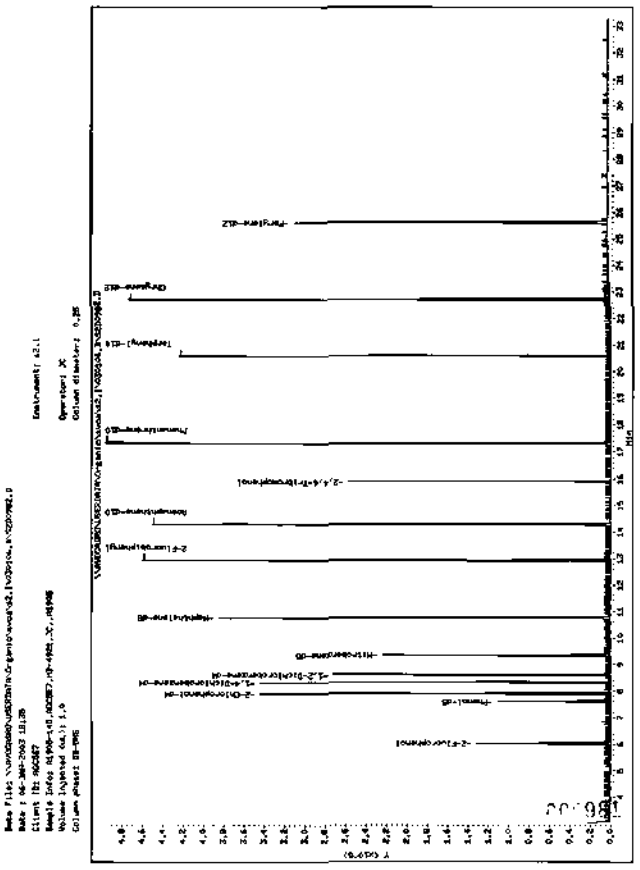
EPA SAMPLE NO.
AOC5E7

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-14D
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0982
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM03.0



000982

Data File: S2D0982.D
Report Date: 24-Jan-2003 13:16

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\S2D0982.D
Lab Smp Id: A1905-14D Client Smp ID: AOC5E7
Inj Date : 06-JAN-2003 18:35
Operator : JC Inst ID: s2.i
Smp Info : A1905-14D,AOC5E7,MB-4921,JC,,A1905
Misc Info : 0,,,1,,,,,,,26-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\s2_8270C.m
Meth Date : 23-Jan-2003 14:49 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D ✓
Als bottle: 84
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	QUANT SIO MASS	RT	REV RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN	FINAL
							(ug)	(ug/L)
4	3 2-Fluorophenol	112	6.031	6.034	(0.725)	85645	26.8968	25
6	5 Phenol-d5	99	9.817	9.820	(0.916)	68995	15.7067	16
9	9 2-Chlorophenol-d4	132	7.939	7.961	(0.945)	166210	46.6313	47
*	12 1,4-Dichlorobenzene-d4	152	8.319	8.322	(1.000)	98402	40.0000	40
8	14 1,2 Dichlorobenzene-d4	152	8.608	8.603	(1.034)	94317	36.1458	36
8	22 Nitrobenzene-d5	82	9.356	9.358	(0.870)	113789	36.2747	36
*	31 Naphthalene-d8	136	10.959	10.963	(1.000)	335063	40.0000	
8	41 2-Fluorobiphenyl	172	12.929	12.932	(0.909)	993829	39.9656	39
*	48 Acenaphthene-d10	164	14.088	14.092	(1.000)	175779	40.0000	
8	60 2,4,6-Tribromophenol	330	15.897	15.900	(0.938)	57932	40.1688	56
*	68 Phenanthrene-d10	188	17.322	17.325	(1.000)	301882	40.0000	
8	72 Terphenyl-d14	244	20.591	20.596	(0.906)	252509	36.5171	36
*	75 Chrysene-d12	240	22.720	22.724	(1.000)	287877	40.0000	
*	80 Perylene-d12	264	25.624	25.627	(1.000)	304196	40.0000	

1/7/03

000982

Data File: S2D0982.D
Report Date: 24-Jan-2003 13:16

QC Flag Legend

Q - Qualifier signal failed the ratio test.

000983

Data File: S2D0982.D
Report Date: 24-Jan-2003 13:16

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\S2D0982.D
Lab Smp Id: A1905-14D Client Smp ID: AOC5E7
Inj Date : 06-JAN-2003 18:35
Operator : JC Inst ID: s2.i
Smp Info : A1905-14D,AOC5E7,MB-4921,JC,,A1905
Misc Info : 0,,,1,,,,,,,26-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\s2_8270C.m
Meth Date : 23-Jan-2003 14:49 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 84
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

000984

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5WTB62W

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-16E
Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S2D0983
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 500(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5WTB62W

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-16E
Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S2D0983
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 500(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	7	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	BJ
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

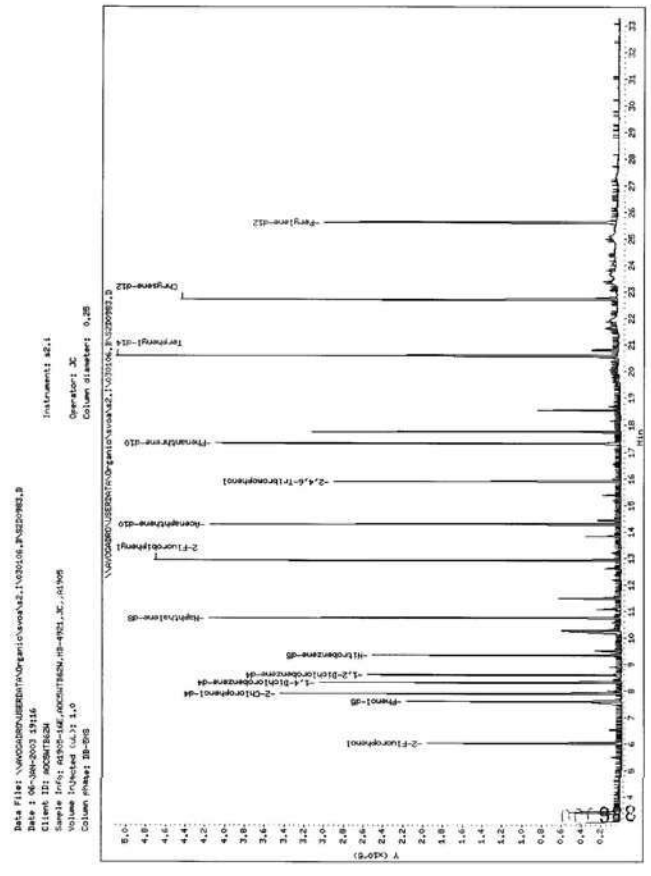
EPA SAMPLE NO.
AOC5WTB62W

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-16E
Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S2D0983
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 500(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 5 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 142-62-1	HEXANOIC ACID	7.57	8	NJ
2.	UNKNOWN	9.51	4	J
3.	UNKNOWN	10.29	6	J
4. 112-05-0	NONANOIC ACID	11.49	8	NJ
5. 84-69-5	1,2-BENZENEDICARBOXYLIC ACID	17.74	24	NJ
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM03.0



Data File: S2D0983.D
Report Date: 30-Jan-2003 08:30

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\S2D0983.D
Lab Smp Id: A1905-16E Client Smp ID: AOCSWTB62W
Inj Date : 06-JAN-2003 19:16
Operator : JC Inst ID: s2.i
Smp Info : A1905-16E,AOCSWTB62W,MB-4921,JC,,A1905
Misc Info : 0,,,1,,,,,,,26-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\s2_8270C.m
Meth Date : 23-Jan-2003 14:49 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 85
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	500.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	500.000	Volume of sample extracted (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
2	2-Fluorophenol	112	5.073	5.084	(0.725)	333568	42.2029	42
S	Phenol-d5	99	7.610	7.620	(0.916)	140262	33.4978	34
3	2-Chlorophenol-d4	132	7.891	7.901	(0.949)	186756	52.2890	52
* 12	1,4-Dichlorobenzene-d4	152	8.312	8.322	(1.000)	507747	40.0000	
14	1,2-Dichlorobenzene-d4	152	8.583	8.605	(1.033)	74808	38.3972	38
22	Nitrobenzene-d5	82	9.148	9.159	(1.099)	120340	40.2153	40(D)
* 31	Naphthalene-d8	136	10.752	10.762	(1.000)	627861	40.0000	
41	2-Fluorobiphenyl	172	12.921	12.932	(0.906)	286777	43.9174	44
* 48	Acenaphthene-d10	164	14.292	14.292	(1.000)	165843	40.0000	
60	2,4,6-Tribromophenol	330	15.980	15.988	(0.918)	64988	66.5856	66
* 64	Phenanthrene-d10	188	17.315	17.315	(1.000)	745969	40.0000	
	68 Di-n-butylphthalate	149	18.546	18.556	(1.071)	64120	6.66191	7(a)
73	Terphenyl-d14	244	20.597	20.596	(0.994)	285596	44.8227	48
* 76	Chrysene-d12	240	22.721	22.714	(1.000)	276191	40.0000	

000989

Data File: S2D0983.D
Report Date: 30-Jan-2003 08:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
78 bis(2-Ethylhexyl)phthalate	149	22.788	22.795	(1.003)	8030	1.33570	1(a)
* 83 Perylene-d12	264	25.627	25.627	(1.000)	700049	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

1/30/03

000990

Data File: S2D0983.D
Report Date: 30-Jan-2003 08:30

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\S2D0983.D
Lab Smp Id: A1905-16E Client Smp ID: AOCSWTB62W
Inj Date : 06-JAN-2003 19:16
Operator : JC Inst ID: s2.i
Smp Info : A1905-16E,AOCSWTB62W,MB-4921,JC,,A1905
Misc Info : 0,,,1,,,,,,,26-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\s2_8270C.m
Meth Date : 23-Jan-2003 14:49 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 85
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	500.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	500.000	Volume of sample extracted (mL)

ISTD	RT	AREA	AMOUNT
* 12 1,4-Dichlorobenzene-d4	8.312	507747	40.000
* 31 Naphthalene-d8	10.752	627861	40.000
* 64 Phenanthrene-d10	17.315	745969	40.000

	RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CFED #
Hexanoic acid						CAS #: 142-62-1		
	7.967	302447	8.07181525		M	90	HEXTSK.L	84259	12(L)

000991

Data File: S2D0983.D
Report Date: 30-Jan-2003 08:30

	RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ng/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CFED #
Unknown				CAS #:				
	9.610	43136	4.70650442		A	0	0	12
Unknown				CAS #:				
	10.287	202307	4.93744121		A	0	0	31
Hexanoic acid				CAS #: 142-62-1				
	11.481	124940	8.02343594		M	91	HEXTSK.L	11977	31
1,3-Benzenedicarboxylic acid, bis(2-meth				CAS #: 84-69-5				
	17.716	449565	26.7031444		24	90	HEXTSK.L	35134	64

QC Flag Legend

L - Operator selected an alternate library search match.

000992

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\SZD0983.D

Date : 06-JAN-2003 19:16

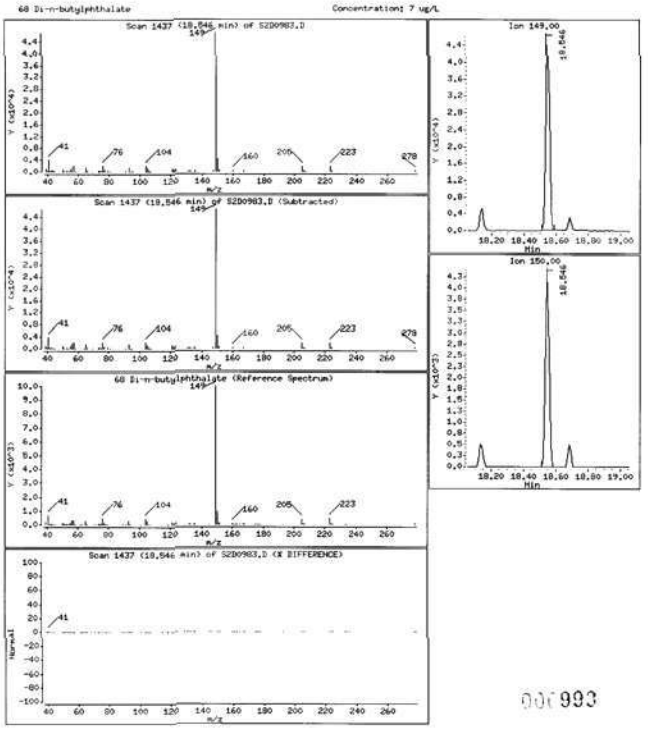
Client ID: AOC5WTB62W — Instrument: s2.i

Sample Info: A1905-16E,AOC5WTB62W,MB-4921.JC,,A1905

Volume Injected (uL): 1.0 — Operator: JC

Column phase: DB-5MS — Column diameter: 0.25

68 Di-n-butylphthalate — Concentration: 7 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\SZD0983.D

Date : 06-JAN-2003 19:16

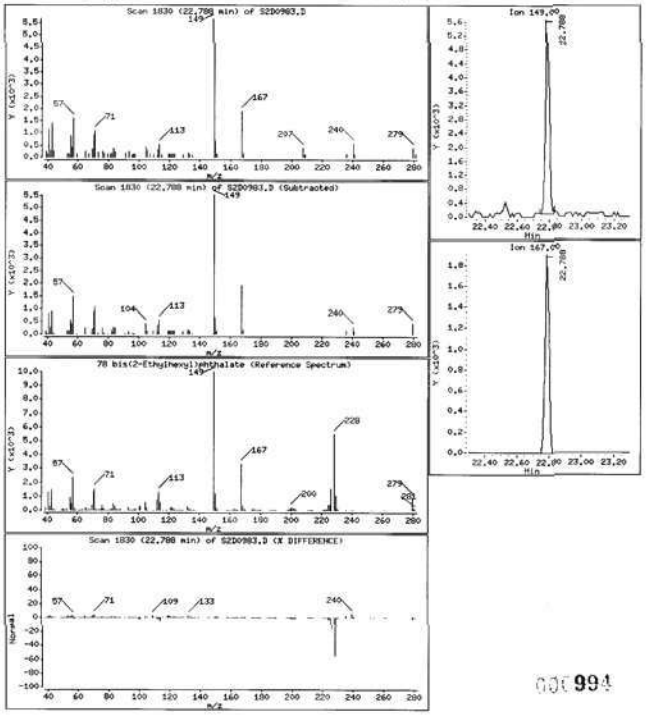
Client ID: AOC5WTB62W — Instrument: s2.i

Sample Info: A1905-16E,AOC5WTB62W,MB-4921.JC,,A1905

Volume Injected (uL): 1.0 — Operator: JC

Column phase: DB-5MS — Column diameter: 0.25

78 bis(2-Ethylhexyl)phthalate — Concentration: 1 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\SZD0983.D

Date : 06-JAN-2003 19:16

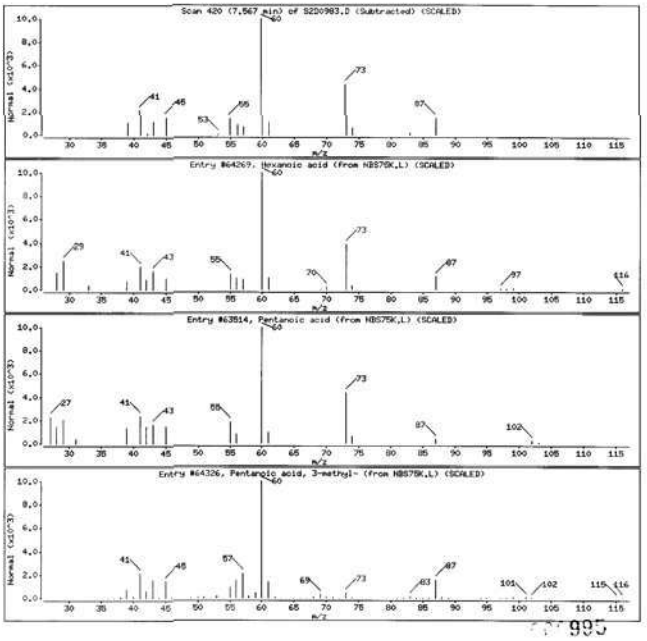
Client ID: AOC5WTB62W — Instrument: s2.i

Sample Info: A1905-16E,AOC5WTB62W,MB-4921.JC,,A1905

Volume Injected (uL): 1.0 — Operator: JC

Column phase: DB-5MS — Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Hexanoic acid	142-62-1	NBS75K.L	64269	90	C6H12O2	116
Pentanoic acid	109-52-4	NBS75K.L	63514	78	C5H10O2	102
Pentanoic acid, 3-methyl-	105-43-1	NBS75K.L	64326	60	C6H12O2	116



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\SZD0983.D

Date : 06-JAN-2003 19:16

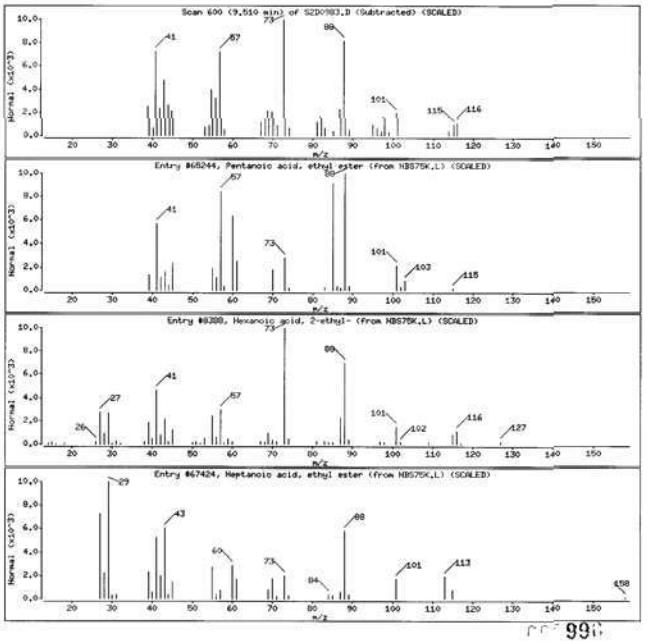
Client ID: AOC5WTB62W — Instrument: s2.i

Sample Info: A1905-16E,AOC5WTB62W,MB-4921.JC,,A1905

Volume Injected (uL): 1.0 — Operator: JC

Column phase: DB-5MS — Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Pentanoic acid, ethyl ester	539-82-2	NBS75K.L	65244	83	C7H14O2	130
Hexanoic acid, 2-ethyl-	149-57-5	NBS75K.L	8388	83	C8H16O2	144
Heptanoic acid, ethyl ester	106-30-9	NBS75K.L	67424	80	C9H18O2	158



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\S2D0983.D

Date : 06-JAN-2003 19:16

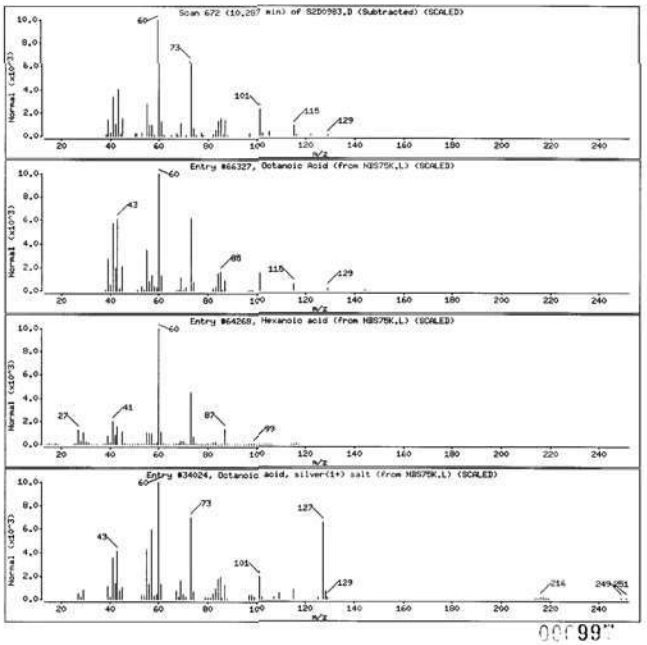
Client ID: AOC5WTB62W Instrument: s2.i

Sample Info: A1905-16E,AOC5WTB62W,MB-4921.JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Octanoic Acid	124-07-2	NBS75K.L	66327	72	C8H16O2	144
Hexanoic acid	142-62-1	NBS75K.L	64268	70	C6H12O2	116
Octanoic acid, silver(1+) salt	24927-67-1	NBS75K.L	34024	53	C8H16AgO2	251



000998

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\S2D0983.D

Date : 06-JAN-2003 19:16

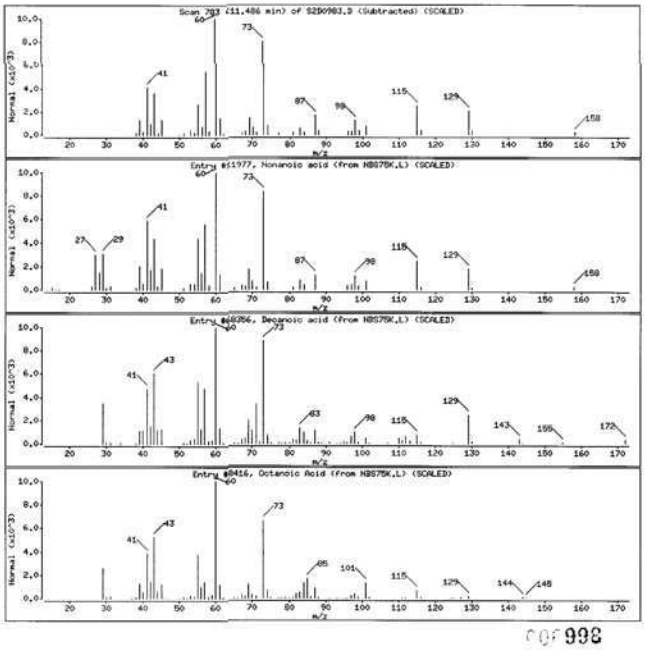
Client ID: AOC5WTB62W Instrument: s2.i

Sample Info: A1905-16E,AOC5WTB62W,MB-4921.JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Nonanoic acid	112-05-0	NBS75K.L	11977	91	C9H18O2	158
Decanoic acid	334-48-5	NBS75K.L	68356	80	C10H20O2	172
Octanoic Acid	124-07-2	NBS75K.L	8416	47	C8H16O2	144



000999

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\S2D0983.D

Date : 06-JAN-2003 19:16

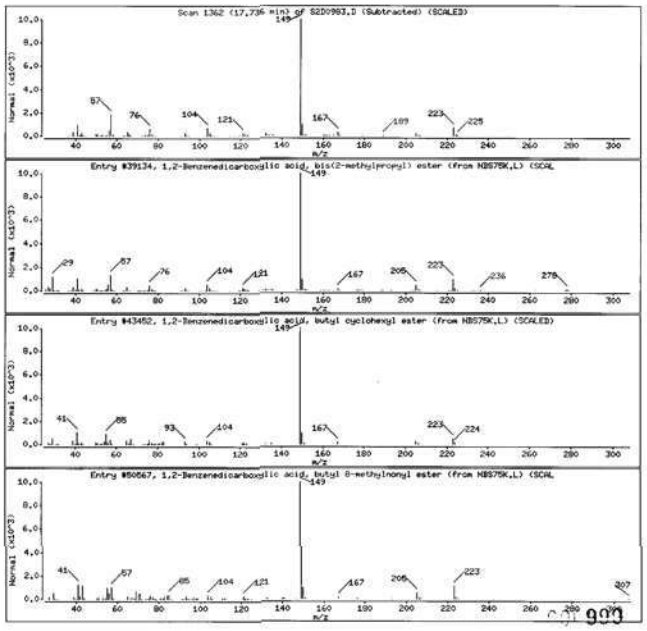
Client ID: AOC5WTB62W Instrument: s2.i

Sample Info: A1905-16E,AOC5WTB62W,MB-4921.JC,,A1905

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,2-Benzenedicarboxylic acid, bis(2-meth	84-69-5	NBS75K.L	39134	90	C16H22O4	278
1,2-Benzenedicarboxylic acid, butyl cycl	84-64-0	NBS75K.L	43452	80	C18H24O4	304
1,2-Benzenedicarboxylic acid, butyl 8-me	89-18-9	NBS75K.L	50567	78	C22H34O4	362



000999

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AOC7WTB65GW

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-18E

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S2D0984

Level: (low/med) LOW Date Received: 12/23/02

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 12/26/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/06/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1 OLM03.0

001000

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC7WTB65GW

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-18E
Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S2D0984
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 12/26/02
Concentrated Extract Volume: 500(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	1	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

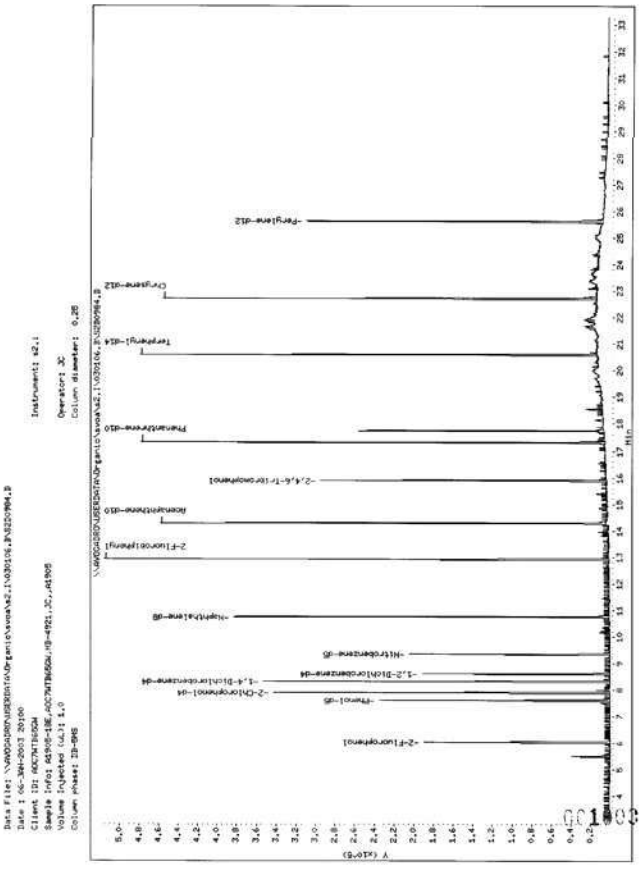
EPA SAMPLE NO.
AOC7WTB65GW

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: A1905-18E
Sample wt/vol: 500.0 (g/mL) ML Lab File ID: S2D0984
Level: (low/med) LOW Date Received: 12/23/02
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 12/26/02
Concentrated Extract Volume: 500(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	84-64-0	1,2-BENZENEDICARBOXYLIC ACID	17.73	21	NJ
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC OLM03.0



Data File: S2D0984.D
Report Date: 30-Jan-2003 09:13

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\S2D0984.D
Lab Smp Id: A1905-18E Client Smp ID: AOC7WTB65GW
Inj Date : 06-JAN-2003 20:00
Operator : JC Inst ID: s2.i
Smp Info : A1905-18E,AOC7WTB65GW,MB-4921,JC,,A1905
Misc Info : 0,,,1,,,,,,,,26-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\s2_8270C.m
Meth Date : 23-Jan-2003 14:49 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 86
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	500.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	500.000	Volume of sample extracted (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
$	3 2-Fluorophenol	112	6.031	6.034	(0.725)	125535	35.7211	36
$	5 Phenol-d5	99	7.618	7.620	(0.916)	147502	32.6688	33
$	9 2-Chlorophenol-d4	132	7.859	7.901	(0.949)	175999	48.3232	48
*	12 1,4-Dichlorobenzene-d4	152	8.320	8.322	(1.000)	97667	40.0000	(Q)
$	14 1,2-Dichlorobenzene-d4	152	8.600	8.603	(1.034)	91093	24.3263	24(R)
$	22 Nitrobenzene-d5	82	9.356	9.358	(0.870)	105732	32.6647	33(R)
*	31 Naphthalene-d8	136	10.759	10.762	(1.000)	335427	40.0000	
$	41 2-Fluorobiphenyl	172	12.929	12.932	(0.905)	241215	40.8898	41
*	48 Acenaphthene-d10	164	14.289	14.292	(1.000)	175314	40.0000	
$	60 2,4,6-Tribromophenol	330	15.898	15.900	(0.978)	62623	63.9391	64
*	64 Phenanthrene-d10	188	17.323	17.325	(1.000)	286568	40.0000	
	68 Di-n-butylphthalate	149	18.553	18.556	(1.071)	12913	1.29670	1(m)
$	72 Terphenyl-d14	244	20.605	20.596	(0.907)	275087	40.7502	41
*	76 Chrysene-d12	240	22.720	22.714	(1.000)	191058	40.0000	

Data File: S2D0984.D
Report Date: 30-Jan-2003 09:13

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 63 Perylene-d12	264	25.624	25.627	(1.000)	209353	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

1/24/03

Data File: S2D0984.D
Report Date: 30-Jan-2003 09:13

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\S2D0984.D
Lab Smp Id: A1905-18E Client Smp ID: AOC7WTB65GW
Inj Date : 06-JAN-2003 20:00
Operator : JC Inst ID: s2.i
Smp Info : A1905-18E,AOC7WTB65GW,MB-4921,JC,,A1905
Misc Info : 0,,,1,,,,,,,26-DEC-02,23-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\s2_8270C.m
Meth Date : 23-Jan-2003 14:49 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 86
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

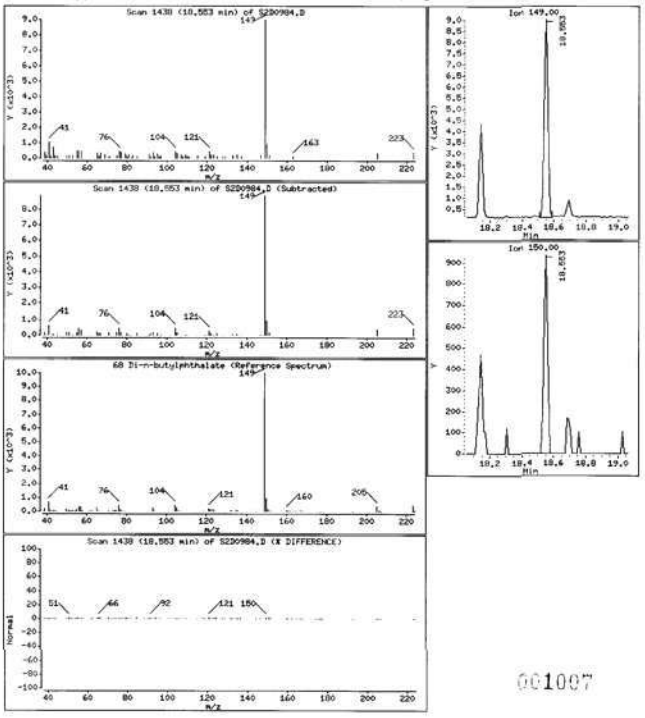
Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	500.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	500.000	Volume of sample extracted (mL)

ISTD	RT	AREA	AMOUNT
* 64 Phenanthrene-d10	17.323	767543	40.000

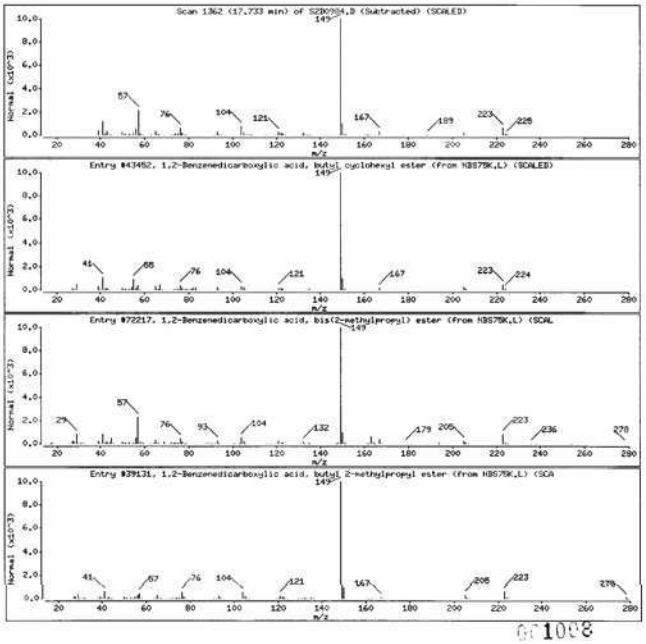
	RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CMPD #
1,2-Benzenedicarboxylic acid, butyl cycl						CAS #: 84-64-0		
	17.733	406427	21.1806745		21	86 NBS75K.L	43452	64

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\S2D0984.D
Date : 06-JAN-2003 20:00
Client ID: AOC7WTB65GW Instrument: s2.i
Sample Info: A1905-18E,AOC7WTB65GW,MB-4921,JC,,A1905
Volume Injected (uL): 1.0 Operator: JC
Column phase: DB-5MS Column diameter: 0.25
68 Di-n-butylphthalate Concentration: 1 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\S2D0984.D
Date : 06-JAN-2003 20:00
Client ID: AOC7WTB65GW Instrument: s2.i
Sample Info: A1905-18E,AOC7WTB65GW,MB-4921,JC,,A1905
Volume Injected (uL): 1.0 Operator: JC
Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,2-Benzenedicarboxylic acid, butyl cycl	84-64-0	NBS75K.L	43452	86	C18H2404	304
1,2-Benzenedicarboxylic acid, bis(2-meth	84-69-5	NBS75K.L	72217	83	C16H2204	278
1,2-Benzenedicarboxylic acid, butyl 2-me	17851-53-5	NBS75K.L	39131	78	C16H2204	278



6B
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: S2 Calibration Date(s): 12/19/02 12/19/02

Calibration Time(s): 0052 0439

LAB FILE ID: RRF10 =S2D0726 RRF20 =S2D0727
RRF50 =S2D0724 RRF80 =S2D0728 RRF120=S2D0729

COMPOUND	RRF10	RRF20	RRF50	RRF80	RRF120	$\overline{RRF}$	%RSD
Phenol	* 2.187		1.869	1.956	1.919		*
bis(2-Chloroethyl)Ether	* 1.758		1.462	1.521	1.478		*
2-Chlorophenol	* 1.621		1.388	1.470	1.452		*
1,3-Dichlorobenzene	* 1.637		1.370	1.435	1.380		*
1,4-Dichlorobenzene	* 1.703		1.420	1.477	1.420		*
1,2-Dichlorobenzene	* 1.553		1.298	1.332	1.275		*
2-Methylphenol	* 1.474		1.241	1.311	1.308		*
2,2'-oxybis(1-Chloropropane)	* 2.820		2.357	2.396	2.357		*
4-Methylphenol	* *1.592*		*1.370*	*1.444*	*1.448*		*
N-Nitroso-di-n-propylamine	* 0.953		0.819	0.856	0.852		*
Hexachloroethane	* 0.636		0.536	0.567	0.543		*
Nitrobenzene	* 0.430		0.368	0.389	0.387		*
Isophorone	* 0.823		0.694	0.727	0.744		*
2-Nitrophenol	* 0.254		0.223	0.243	0.248		*
2,4-Dimethylphenol	* 0.387		0.325	0.343	0.357		*
2,4-Dichlorophenol	* 0.330		0.285	0.310	0.315		*
1,2,4-Trichlorobenzene	* 0.359		0.305	0.322	0.313		*
Naphthalene	* 1.219		1.006	1.034	0.997		*
4-Chloroaniline	* 0.491		0.416	0.434	0.430		*
bis(2-Chloroethoxy)methane	* 0.553		0.461	0.479	0.470		*
Hexachlorobutadiene	* 0.173		0.146	0.156	0.153		*
4-Chloro-3-Methylphenol	* 0.328		0.294	0.314	0.313		*
2-Methylnaphthalene	* 0.779		0.643	0.658	0.638		*
Hexachlorocyclopentadiene	* 0.319		0.288	0.325	0.316		*
2,4,6-Trichlorophenol	* 0.449		0.391	0.428	0.428		*
2,4,5-Trichlorophenol	*	0.488	0.405	0.447	0.439		*
2-Chloronaphthalene	* 1.306		1.078	1.135	1.105		*
2-Nitroaniline	*	0.410	0.354	0.386	0.395		*
Dimethylphthalate	* 1.525		1.287	1.384	1.398		*
Acenaphthylene	* 2.189		1.825	1.879	1.811		*
2,6-Dinitrotoluene	* 0.387		0.340	0.384	0.389		*
3-Nitroaniline	*	*0.383*	*0.315*	*0.381*	*0.399*		*
Acenaphthene	* 1.327		1.101	1.134	1.093		*
2,4-Dinitrophenol	*	0.197	0.199	0.258	0.274		*
4-Nitrophenol	*	0.128	0.116	0.136	0.144		*
Dibenzofuran	* 1.892		1.572	1.668	1.631		*
2,4-Dinitrotoluene	* 0.467		0.420	0.464	0.475		*

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM VI SV-1 OLM03.0

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: S2 Calibration Date(s): 12/19/02 12/19/02

Calibration Time(s): 0052 0439

LAB FILE ID: RRF10 =S2D0726 RRF20 =S2D0727
RRF50 =S2D0724 RRF80 =S2D0728 RRF120=S2D0729

COMPOUND	RRF10	RRF20	RRF50	RRF80	RRF120	$\overline{RRF}$	%RSD
Diethylphthalate	* 1.489		1.254	1.334	1.304		*
4-Chlorophenyl-phenylether	* 0.736		0.600	0.598	0.551		*
Fluorene	* 1.494		1.199	1.147	1.088		*
4-Nitroaniline	*	0.355	0.256	0.298	0.311		*
4,6-Dinitro-2-methylphenol	*	0.193	0.178	0.216	0.222		*
N-Nitrosodiphenylamine (1)	* 0.618		0.506	0.524	0.504		*
4-Bromophenyl-phenylether	* 0.257		0.218	0.232	0.224		*
Hexachlorobenzene	* 0.286		0.239	0.251	0.238		*
Pentachlorophenol	*	0.186	*0.169*	*0.186*	*0.182*		*
Phenanthrene	* 1.210		1.018	1.056	1.014		*
Anthracene	* 1.216		1.022	1.048	1.011		*
Carbazole	*	0.871	0.636	0.627	0.681		*
Di-n-butylphthalate	* 1.587		1.328	1.355	1.305		*
Fluoranthene	* 1.292		1.080	1.104	1.068		*
Pyrene	* 1.582		1.330	1.444	1.478		*
Butylbenzylphthalate	* 0.740		0.664	0.742	0.767		*
3,3'-Dichlorobenzidine	* 0.450		0.358	0.441	0.474		*
Benzo(a)anthracene	* 1.332		1.139	1.181	1.134		*
Chrysene	* 1.230		1.064	1.155	1.177		*
bis(2-Ethylhexyl)phthalate	* 1.078		0.902	0.881	0.827		*
Di-n-octylphthalate	* 3.042		2.659	2.803	2.740		*
Benzo(b)fluoranthene	* 2.004		1.819	1.938	2.048		*
Benzo(k)fluoranthene	* 1.889		1.594	1.794	1.696		*
Benzo(a)pyrene	* 1.808		1.570	1.734	1.741		*
Indeno(1,2,3-cd)pyrene	* 1.772		1.566	1.808	1.853		*
Dibenzo(a,h)anthracene	* 1.666		1.488	1.649	1.643		*
Benzo(g,h,i)perylene	* 1.698		1.501	1.645	1.650		*
Nitrobenzene-d5	0.418		0.362	0.379	0.386		*
2-Fluorobiphenyl	* 1.527		1.265	1.323	1.263		*
Terphenyl-d14	* 1.060		0.918	0.999	1.004		*
Phenol-d5	* 2.096		1.802	1.902	1.922		*
2-Fluorophenol	* 1.657		1.414	1.532	1.521		*
2,4,6-Tribromophenol	* 0.151		0.132	0.146	0.138		*
2-Chlorophenol-d4	* 1.666		1.402	1.508	1.502		*
1,2-Dichlorobenzene-d4	* 0.972		0.818	0.854	0.829		*

(1) Cannot be seperated from Diphenylamine
* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM VI SV-2 OLM03.0

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: S2 Calibration Date(s): 12/19/02 12/19/02

Calibration Time(s): 0052 0439

LAB FILE ID: RRF160=S2D0725

COMPOUND	RRF160					$\overline{RRF}$	%RSD
Phenol	* *1.846*					*1.955*	*7.0**
bis(2-Chloroethyl)Ether	* 1.421					1.528	8.7*
2-Chlorophenol	* 1.392					1.465	6.5*
1,3-Dichlorobenzene	* 1.311					1.427	8.8*
1,4-Dichlorobenzene	* 1.342					1.472	9.4*
1,2-Dichlorobenzene	* 1.193					1.330	10.1*
2-Methylphenol	* 1.241					1.315	7.2*
2,2'-oxybis(1-Chloropropane)	* 2.236					2.433	9.2*
4-Methylphenol	* 1.448					1.460	5.5*
N-Nitroso-di-n-propylamine	* 0.820					0.860	6.4*
Hexachloroethane	* 0.517					0.560	8.3*
Nitrobenzene	* 0.375					0.390	6.2*
Isophorone	* 0.725					0.743	6.5*
2-Nitrophenol	* 0.245					0.243	4.9*
2,4-Dimethylphenol	* 0.351					0.353	6.4*
2,4-Dichlorophenol	* 0.303					0.309	5.3*
1,2,4-Trichlorobenzene	* 0.296					0.319	7.6*
Naphthalene	* 0.932					1.038	10.4*
4-Chloroaniline	* 0.414					0.437	7.2*
bis(2-Chloroethoxy)methane	* 0.450					0.483	8.5*
Hexachlorobutadiene	* 0.147					0.155	6.9*
4-Chloro-3-Methylphenol	* 0.304					0.311	4.2*
2-Methylnaphthalene	* 0.599					0.663	10.3*
Hexachlorocyclopentadiene	* *0.311*					*0.312*	*4.6**
2,4,6-Trichlorophenol	* 0.418					0.423	5.0*
2,4,5-Trichlorophenol	* 0.423					0.440	7.0*
2-Chloronaphthalene	* 1.058					1.136	8.7*
2-Nitroaniline	* 0.388					0.387	5.4*
Dimethylphthalate	* 1.351					1.389	6.3*
Acenaphthylene	* 1.698					1.880	9.8*
2,6-Dinitrotoluene	* 0.380					0.376	5.4*
3-Nitroaniline	* 0.406					0.377	9.6*
Acenaphthene	* 1.025					1.136	10.0*
2,4-Dinitrophenol	* 0.276					0.241	16.4*
4-Nitrophenol	* 0.145					0.134	9.0*
Dibenzofuran	* 1.534					1.659	8.4*
2,4-Dinitrotoluene	* 0.460					0.457	4.7*

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM VI SV-3 OLM03.0

6C
SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: S2 Calibration Date(s): 12/19/02 12/19/02

Calibration Time(s): 0052 0439

LAB FILE ID: RRF160=S2D0725

COMPOUND	RRF160					$\overline{RRF}$	%RSD
Diethylphthalate	* 1.236					1.323	7.6*
4-Chlorophenyl-phenylether	* 0.508					0.599	14.3*
Fluorene	* 0.996					1.185	15.9*
4-Nitroaniline	* 0.319					0.308	11.7*
4,6-Dinitro-2-methylphenol	* 0.223					0.206	9.8*
N-Nitrosodiphenylamine (1)	* 0.496					0.530	9.5*
4-Bromophenyl-phenylether	* 0.217					0.230	7.2*
Hexachlorobenzene	* 0.230					0.249	8.9*
Pentachlorophenol	* 0.178					0.180	3.9*
Phenanthrene	* 0.963					1.052	8.9*
Anthracene	* 0.953					1.050	9.4*
Carbazole	* 0.692					0.701	14.1*
Di-n-butylphthalate	* 1.234					1.362	9.8*
Fluoranthene	* 1.023					1.113	9.4*
Pyrene	* 1.440					1.455	6.2*
Butylbenzylphthalate	* 0.748					0.732	5.4*
3,3'-Dichlorobenzidine	* 0.478					0.440	11.0*
Benzo(a)anthracene	* 1.092					1.176	7.9*
Chrysene	* 1.157					1.157	5.2*
bis(2-Ethylhexyl)phthalate	* 0.796					0.897	12.2*
Di-n-octylphthalate	* 2.680					2.785	5.5*
Benzo(b)fluoranthene	* 1.987					1.959	4.5*
Benzo(k)fluoranthene	* 1.665					1.728	6.7*
Benzo(a)pyrene	* 1.732					1.717	5.1*
Indeno(1,2,3-cd)pyrene	* 1.884					1.777	7.1*
Dibenzo(a,h)anthracene	* 1.641					1.617	4.5*
Benzo(g,h,i)perylene	* 1.657					1.630	4.6*
Nitrobenzene-d5	0.381					0.385	5.3*
2-Fluorobiphenyl	* 1.198					1.315	9.6*
Terphenyl-d14	* 0.969					0.990	5.3*
Phenol-d5	* 1.844					1.913	5.9*
2-Fluorophenol	* 1.486					1.522	5.8*
2,4,6-Tribromophenol	* 0.136					0.141	5.4*
2-Chlorophenol-d4	* 1.464					1.508	6.5*
1,2-Dichlorobenzene-d4	* 0.787					0.852	8.4*

(1) Cannot be seperated from Diphenylamine
* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM VI SV-4 OLM03.0

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: S2 Calibration Date(s): 01/03/03 01/03/03

Calibration Time(s): 1415 1747

LAB FILE ID: RRF10 =S2D0936 RRF20 =S2D0938
RRF50 =S2D0937 RRF80 =S2D0939 RRF120=S2D0940

COMPOUND	RRF10	RRF20	RRF50	RRF80	RRF120	RRF	%RSD
Phenol	* 2.001		1.859	1.852	1.864		*
bis(2-Chloroethyl)Ether	* 1.530		1.405	1.378	1.388		*
2-Chlorophenol	* 1.570		1.401	1.436	1.445		*
1,3-Dichlorobenzene	* 1.600		1.337	1.432	1.418		*
1,4-Dichlorobenzene	* 1.689		1.406	1.490	1.460		*
1,2-Dichlorobenzene	* 1.515		1.309	1.338	1.310		*
2-Methylphenol	* 1.398		1.232	1.237	1.234		*
2,2'-oxybis(1-Chloropropane)	* 2.425		2.248	2.203	2.204		*
4-Methylphenol	* 1.504		1.369	1.354	1.361		*
N-Nitroso-di-n-propylamine	* 0.791		0.738	0.730	0.745		*
Hexachloroethane	* 0.602		0.520	0.552	0.545		*
Nitrobenzene	* 0.417		0.359	0.387	0.388		*
Isophorone	* 0.758		0.650	0.693	0.702		*
2-Nitrophenol	* 0.259		0.221	0.247	0.252		*
2,4-Dimethylphenol	* 0.366		0.277	0.341	0.356		*
2,4-Dichlorophenol	* 0.338		0.290	0.320	0.324		*
1,2,4-Trichlorobenzene	* 0.366		0.303	0.331	0.326		*
Naphthalene	* 1.210		1.014	1.070	1.064		*
4-Chloroaniline	* 0.488		0.388	0.439	0.446		*
bis(2-Chloroethoxy)methane	* 0.504		0.428	0.450	0.458		*
Hexachlorobutadiene	* 0.188		0.152	0.168	0.166		*
4-Chloro-3-Methylphenol	* 0.343		0.305	0.317	0.325		*
2-Methylnaphthalene	* 0.787		0.679	0.703	0.703		*
Hexachlorocyclopentadiene	* 0.232		0.056	0.307	0.312		*
2,4,6-Trichlorophenol	* 0.448		0.386	*0.424*	*0.436*		*
2,4,5-Trichlorophenol	*	0.479	0.416	0.466	0.477		*
2-Chloronaphthalene	* 1.287		1.067	1.157	1.157		*
2-Nitroaniline	*	0.409	0.357	0.387	0.397		*
Dimethylphthalate	* 1.546		1.336	1.432	1.451		*
Acenaphthylene	* 2.161		1.743	1.935	1.917		*
2,6-Dinitrotoluene	* 0.396		0.361	0.388	0.400		*
3-Nitroaniline	*	0.442	0.391	0.425	0.439		*
Acenaphthene	* 1.327		1.109	1.172	1.176		*
2,4-Dinitrophenol	*	0.172	0.187	0.252	0.273		*
4-Nitrophenol	*	0.143	0.138	0.153	0.162		*
Dibenzofuran	* 1.868		1.600	1.672	1.644		*
2,4-Dinitrotoluene	* 0.504		0.453	0.482	0.478		*

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM VI SV-1

OLM03.0

001013

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: S2 Calibration Date(s): 01/03/03 01/03/03

Calibration Time(s): 1415 1747

LAB FILE ID: RRF10 =S2D0936 RRF20 =S2D0938
RRF50 =S2D0937 RRF80 =S2D0939 RRF120=S2D0940

COMPOUND	RRF10	RRF20	RRF50	RRF80	RRF120	RRF	%RSD
Diethylphthalate	* 1.478		1.310	1.399	1.409		*
4-Chlorophenyl-phenylether	* 0.730		0.617	0.632	0.607		*
Fluorene	* 1.478		1.223	1.238	1.182		*
4-Nitroaniline	*	0.436	0.385	0.416	0.429		*
4,6-Dinitro-2-methylphenol	*	0.186	0.174	0.213	0.218		*
N-Nitrosodiphenylamine (1)	* 0.602		0.499	0.560	0.546		*
4-Bromophenyl-phenylether	* 0.259		0.215	0.237	0.232		*
Hexachlorobenzene	* 0.276		0.229	0.254	0.244		*
Pentachlorophenol	*	0.136	0.136	0.168	0.172		*
Phenanthrene	* 1.196		1.008	1.069	1.041		*
Anthracene	* 1.200		0.957	1.059	1.028		*
Carbazole	*	1.001	0.896	0.894	0.910		*
Di-n-butylphthalate	* 1.569		1.302	1.405	1.373		*
Fluoranthene	* 1.337		1.122	1.194	1.174		*
Pyrene	* 1.439		1.205	1.342	1.344		*
Butylbenzylphthalate	* 0.697		0.590	0.659	0.680		*
3,3'-Dichlorobenzidine	* 0.497		0.366	0.435	0.439		*
Benzo(a)anthracene	* 1.309		1.080	1.198	1.216		*
Chrysene	* 1.212		0.978	1.035	1.030		*
bis(2-Ethylhexyl)phthalate	* 1.022		0.825	0.872	0.844		*
Di-n-octylphthalate	* 2.984		3.075	2.829	2.858		*
Benzo(b)fluoranthene	* 2.095		2.171	1.968	2.184		*
Benzo(k)fluoranthene	* 1.875		1.920	1.743	1.675		*
Benzo(a)pyrene	* 1.845		1.824	1.725	1.755		*
Indeno(1,2,3-cd)pyrene	* 1.890		1.966	1.822	1.890		*
Dibenzo(a,h)anthracene	* 1.794		1.834	1.653	1.682		*
Benzo(g,h,i)perylene	* 1.807		1.807	1.616	1.649		*
Nitrobenzene-d5	0.409		0.356	0.386	0.392		*
2-Fluorobiphenyl	* 1.518		1.248	1.344	1.332		*
Terphenyl-d14	* 1.009		0.843	0.924	0.932		*
Phenol-d5	* 1.969		1.792	1.814	1.839		*
2-Fluorophenol	* 1.543		1.274	1.496	1.461		*
2,4,6-Tribromophenol	* 0.144		0.126	0.141	0.138		*
2-Chlorophenol-d4	* 1.594		1.429	1.473	1.492		*
1,2-Dichlorobenzene-d4	* 0.968		0.830	0.856	0.845		*

(1) Cannot be seperated from Diphenylamine
* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM VI SV-2

OLM03.0

001014

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM *Case No.:* *SAS No.:* *SDG No.: A1905*

Instrument ID: S2 Calibration Date(s): 01/03/03 01/03/03

Calibration Time(s): 1415 1747

LAB FILE ID: RRF160=S2D0935

COMPOUND	RRF160					RRF	%RSD
Phenol	* 1.792					1.874	4.1*
bis(2-Chloroethyl)Ether	* 1.319					1.404	5.5*
2-Chlorophenol	* 1.401					1.451	4.8*
1,3-Dichlorobenzene	* 1.342					1.426	7.5*
1,4-Dichlorobenzene	* 1.391					1.487	8.1*
1,2-Dichlorobenzene	* 1.250					1.344	7.5*
2-Methylphenol	* 1.187					1.258	6.4*
2,2'-oxybis(1-Chloropropane)	* *2.213*					2.239	5.1*
4-Methylphenol	* 1.302					1.378	5.4*
N-Nitroso-di-n-propylamine	* 0.715					0.744	3.8*
Hexachloroethane	* 0.514					0.547	6.4*
Nitrobenzene	* 0.378					0.386	5.4*
Isophorone	* 0.686					0.698	5.5*
2-Nitrophenol	* 0.247					0.245	5.9*
2,4-Dimethylphenol	* 0.353					0.339	10.4*
2,4-Dichlorophenol	* 0.312					0.317	5.6*
1,2,4-Trichlorobenzene	* 0.320					0.329	7.0*
Naphthalene	* 1.027					1.077	7.3*
4-Chloroaniline	* 0.435					0.439	8.2*
bis(2-Chloroethoxy)methane	* 0.443					0.457	6.3*
Hexachlorobutadiene	* 0.165					0.168	7.6*
4-Chloro-3-Methylphenol	* 0.309					0.320	4.7*
2-Methylnaphthalene	* 0.669					0.708	6.5*
Hexachlorocyclopentadiene	* 0.308					0.243	45.3*
2,4,6-Trichlorophenol	* 0.428					0.424	5.5*
2,4,5-Trichlorophenol	* 0.426					0.453	6.5*
2-Chloronaphthalene	* 1.117					1.157	7.0*
2-Nitroaniline	* *0.392*					0.388	5.0*
Dimethylphthalate	* 1.411					1.435	5.3*
Acenaphthylene	* 1.853					1.922	8.0*
2,6-Dinitrotoluene	* 0.395					0.388	4.0*
3-Nitroaniline	* 0.423					0.424	4.7*
Acenaphthene	* 1.137					1.184	7.1*
2,4-Dinitrophenol	* 0.275					0.232	21.0*
4-Nitrophenol	* 0.162					0.152	7.2*
Dibenzofuran	* 1.540					1.665	7.5*
2,4-Dinitrotoluene	* 0.452					0.474	4.6*

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM VI SV-3

OLM03.0

001015

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM *Case No.:* *SAS No.:* *SDG No.: A1905*

Instrument ID: S2 Calibration Date(s): 01/03/03 01/03/03

Calibration Time(s): 1415 1747

LAB FILE ID: RRF160=S2D0935

COMPOUND	RRF160					RRF	%RSD
Diethylphthalate	* 1.337					1.387	4.7*
4-Chlorophenyl-phenylether	* 0.566					0.630	9.7*
Fluorene	* 1.110					1.246	11.1*
4-Nitroaniline	* 0.424					0.418	4.7*
4,6-Dinitro-2-methylphenol	* 0.218					0.202	10.1*
N-Nitrosodiphenylamine (1)	* 0.536					0.549	6.8*
4-Bromophenyl-phenylether	* 0.226					0.234	7.0*
Hexachlorobenzene	* *0.238*					*0.248*	*7.3**
Pentachlorophenol	* 0.168					0.156	11.9*
Phenanthrene	* 1.008					1.064	7.3*
Anthracene	* 1.000					1.049	8.8*
Carbazole	* 0.908					0.922	4.9*
Di-n-butylphthalate	* 1.302					1.390	7.9*
Fluoranthene	* 1.108					1.187	7.7*
Pyrene	* 1.338					1.334	6.3*
Butylbenzylphthalate	* 0.654					0.656	6.2*
3,3'-Dichlorobenzidine	* 0.433					0.434	10.7*
Benzo(a)anthracene	* 1.186					1.198	6.8*
Chrysene	* 0.992					1.049	9.0*
bis(2-Ethylhexyl)phthalate	* 0.826					0.878	9.4*
Di-n-octylphthalate	* 2.869					2.923	3.5*
Benzo(b)fluoranthene	* 2.166					2.117	4.3*
Benzo(k)fluoranthene	* 1.730					1.789	5.8*
Benzo(a)pyrene	* 1.744					1.779	3.0*
Indeno(1,2,3-cd)pyrene	* 1.839					1.881	3.0*
Dibenzo(a,h)anthracene	* 1.584					1.709	6.0*
Benzo(g,h,i)perylene	* 1.522					1.680	7.4*
Nitrobenzene-d5	0.386					0.386	5.0*
2-Fluorobiphenyl	* 1.288					1.346	7.7*
Terphenyl-d14	* 0.930					0.928	6.3*
Phenol-d5	* 1.776					1.838	4.2*
2-Fluorophenol	* 1.422					1.439	7.1*
2,4,6-Tribromophenol	* 0.135					0.137	5.1*
2-Chlorophenol-d4	* 1.470					1.492	4.2*
1,2-Dichlorobenzene-d4	* 0.803					0.860	7.4*

(1) Cannot be seperated from Diphenylamine
* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM VI SV-4

OLM03.0

001016

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: S2 Calibration Date(s): 01/18/03 01/18/03

Calibration Time(s): 0845 1256

LAB FILE ID: RRF10 =S2D1198 RRF20 =S2D1202
RRF50 =S2D1196 RRF80 =S2D1200 RRF120=S2D1201

COMPOUND	RRF10	RRF20	RRF50	RRF80	RRF120	RRF	% RSD
Phenol	* 1.773		1.701	1.659	1.726		*
bis(2-Chloroethyl)Ether	* 1.345		1.236	1.186	1.216		*
2-Chlorophenol	* 1.484		1.382	1.343	1.368		*
1,3-Dichlorobenzene	* 1.493		1.360	1.334	1.370		*
1,4-Dichlorobenzene	* 1.596		1.430	1.411	1.440		*
1,2-Dichlorobenzene	* 1.396		1.268	1.252	1.270		*
2-Methylphenol	* 1.292		1.170	1.161	1.170		*
2,2'-oxybis(1-Chloropropane)	* 2.207		1.995	1.938	1.935		*
4-Methylphenol	* 1.376		1.268	1.199	1.221		*
N-Nitroso-di-n-propylamine	* 0.736		0.688	0.672	0.681		*
Hexachloroethane	* 0.581		0.531	0.517	0.528		*
Nitrobenzene	* 0.378		0.350	0.348	0.351		*
Isophorone	* 0.669		0.645	0.624	0.636		*
2-Nitrophenol	* 0.235		0.230	0.234	0.238		*
2,4-Dimethylphenol	* 0.374		0.345	0.346	0.349		*
2,4-Dichlorophenol	* 0.316		0.300	0.306	0.321		*
1,2,4-Trichlorobenzene	* 0.346		0.322	0.321	0.330		*
Naphthalene	* 1.106		1.021	1.012	1.028		*
4-Chloroaniline	* 0.434		0.440	0.433	0.440		*
bis(2-Chloroethoxy)methane	* 0.442		0.405	0.404	0.411		*
Hexachlorobutadiene	* 0.181		0.173	0.179	0.185		*
4-Chloro-3-Methylphenol	* 0.322		0.316	0.305	0.313		*
2-Methylnaphthalene	* 0.742		0.689	0.681	0.690		*
Hexachlorocyclopentadiene	* 0.197		0.267	0.307	0.338		*
2,4,6-Trichlorophenol	* 0.407		0.410	*0.421*	*0.440*		*
2,4,5-Trichlorophenol	*	0.462	0.430	0.463	0.451		*
2-Chloronaphthalene	* 1.184		1.087	1.122	1.129		*
2-Nitroaniline	*	0.366	0.363	0.357	0.365		*
Dimethylphthalate	* 1.436		1.360	1.386	1.414		*
Acenaphthylene	* 1.966		1.833	1.880	1.902		*
2,6-Dinitrotoluene	* 0.366		0.361	0.364	0.374		*
3-Nitroaniline	*	0.384	0.367	0.377	0.400		*
Acenaphthene	* 1.230		1.145	1.164	1.186		*
2,4-Dinitrophenol	*	0.096	0.101	0.192	0.243		*
4-Nitrophenol	*	0.146	0.151	0.158	0.171		*
Dibenzofuran	* 1.730		1.620	1.655	1.653		*
2,4-Dinitrotoluene	* 0.461		0.442	0.457	0.465		*

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

001017

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: S2 Calibration Date(s): 01/18/03 01/18/03

Calibration Time(s): 0845 1256

LAB FILE ID: RRF10 =S2D1198 RRF20 =S2D1202
RRF50 =S2D1196 RRF80 =S2D1200 RRF120=S2D1201

COMPOUND	RRF10	RRF20	RRF50	RRF80	RRF120	RRF	% RSD
Diethylphthalate	* 1.416		1.330	1.374	1.403		*
4-Chlorophenyl-phenylether	* 0.719		0.656	0.681	0.688		*
Fluorene	* 1.355		1.276	1.308	1.322		*
4-Nitroaniline	*	0.386	0.373	0.373	0.398		*
4,6-Dinitro-2-methylphenol	*	0.142	0.131	0.176	0.197		*
N-Nitrosodiphenylamine (1)	* 0.535		0.512	0.513	0.523		*
4-Bromophenyl-phenylether	* 0.236		0.222	0.224	0.232		*
Hexachlorobenzene	* 0.235		0.234	0.240	0.244		*
Pentachlorophenol	*	0.091	0.112	0.128	0.147		*
Phenanthrene	* 1.073		1.023	1.001	1.027		*
Anthracene	* 1.111		1.018	1.018	1.033		*
Carbazole	*	0.934	0.872	0.802	0.869		*
Di-n-butylphthalate	* 1.362		1.276	1.288	1.314		*
Fluoranthene	* 1.208		1.138	1.142	1.182		*
Pyrene	* 1.222		1.132	1.178	1.171		*
Butylbenzylphthalate	* 0.578		0.534	0.559	0.564		*
3,3'-Dichlorobenzidine	* 0.438		0.399	0.382	0.412		*
Benzo(a)anthracene	* 1.150		1.086	1.102	1.124		*
Chrysene	* 1.048		0.977	1.008	1.035		*
bis(2-Ethylhexyl)phthalate	* 0.814		0.773	0.805	0.830		*
Di-n-octylphthalate	* 2.102		2.100	2.084	2.164		*
Benzo(b)fluoranthene	* 1.626		1.583	1.569	1.668		*
Benzo(k)fluoranthene	* 1.422		1.334	1.359	1.460		*
Benzo(a)pyrene	* 1.446		1.346	1.407	1.480		*
Indeno(1,2,3-cd)pyrene	* 1.768		1.518	1.556	1.681		*
Dibenzo(a,h)anthracene	* 1.415		1.383	1.401	1.474		*
Benzo(g,h,i)perylene	* 1.445		1.399	1.406	1.479		*
Nitrobenzene-d5	0.374		0.359	0.352	0.356		*
2-Fluorobiphenyl	* 1.432		1.305	1.345	1.382		*
Terphenyl-d14	* 0.835		0.795	0.825	0.828		*
Phenol-d5	* 1.639		1.577	1.514	1.560		*
2-Fluorophenol	* 1.324		1.285	1.249	1.288		*
2,4,6-Tribromophenol	* 0.109		0.114	0.121	0.126		*
2-Chlorophenol-d4	* 1.429		1.304	1.302	1.335		*
1,2-Dichlorobenzene-d4	* 0.906		0.804	0.804	0.801		*

(1) Cannot be seperated from Diphenylamine
* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

001018

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: S2 Calibration Date(s): 01/18/03 01/18/03

Calibration Time(s): 0845 1256

LAB FILE ID: RRF160=S2D1197

COMPOUND	RRF160					RRF	% RSD
Phenol	* 1.671					1.706	2.7*
bis(2-Chloroethyl)Ether	* 1.166					1.230	5.7*
2-Chlorophenol	* 1.303					1.376	4.9*
1,3-Dichlorobenzene	* 1.297					1.371	5.4*
1,4-Dichlorobenzene	* 1.364					1.448	6.0*
1,2-Dichlorobenzene	* 1.207					1.279	5.5*
2-Methylphenol	* 1.134					1.185	5.2*
2,2'-oxybis(1-Chloropropane)	* *1.913*					*1.997*	*6.2**
4-Methylphenol	* 1.169					1.247	6.5*
N-Nitroso-di-n-propylamine	* 0.549					0.665	10.4*
Hexachloroethane	* 0.504					0.532	5.5*
Nitrobenzene	* 0.350					0.355	3.6*
Isophorone	* 0.637					0.642	2.6*
2-Nitrophenol	* 0.234					0.234	1.1*
2,4-Dimethylphenol	* 0.346					0.352	3.5*
2,4-Dichlorophenol	* 0.306					0.310	2.7*
1,2,4-Trichlorobenzene	* 0.324					0.329	3.1*
Naphthalene	* 1.026					1.039	3.7*
4-Chloroaniline	* 0.439					0.437	0.8*
bis(2-Chloroethoxy)methane	* 0.406					0.414	3.9*
Hexachlorobutadiene	* 0.179					0.179	2.6*
4-Chloro-3-Methylphenol	* 0.312					0.314	2.1*
2-Methylnaphthalene	* 0.680					0.696	3.7*
Hexachlorocyclopentadiene	* 0.324					0.287	19.7*
2,4,6-Trichlorophenol	* 0.428					0.421	3.2*
2,4,5-Trichlorophenol	* 0.441					0.449	3.1*
2-Chloronaphthalene	* 1.113					1.127	3.2*
2-Nitroaniline	* *0.364*					*0.363*	*0.9**
Dimethylphthalate	* 1.363					1.392	2.4*
Acenaphthylene	* 1.864					1.889	2.6*
2,6-Dinitrotoluene	* 0.362					0.365	1.5*
3-Nitroaniline	* 0.389					0.383	3.2*
Acenaphthene	* 1.179					1.181	2.7*
2,4-Dinitrophenol	* 0.213					0.169	39.6*
4-Nitrophenol	* 0.167					0.159	6.6*
Dibenzofuran	* 1.637					1.659	2.5*
2,4-Dinitrotoluene	* 0.463					0.458	2.0*

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

001019

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: S2 Calibration Date(s): 01/18/03 01/18/03

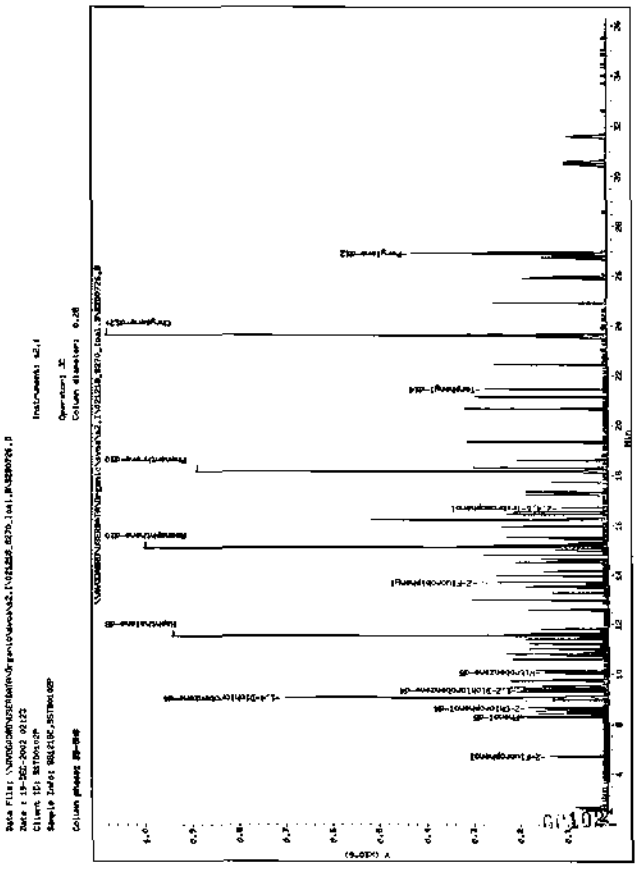
Calibration Time(s): 0845 1256

LAB FILE ID: RRF160=S2D1197

COMPOUND	RRF160					RRF	% RSD
Diethylphthalate	* 1.369					1.378	2.4*
4-Chlorophenyl-phenylether	* 0.668					0.682	3.5*
Fluorene	* 1.279					1.308	2.5*
4-Nitroaniline	* 0.399					0.386	3.3*
4,6-Dinitro-2-methylphenol	* 0.184					0.166	16.8*
N-Nitrosodiphenylamine (1)	* 0.529					0.522	1.9*
4-Bromophenyl-phenylether	* 0.231					0.229	2.4*
Hexachlorobenzene	* *0.241*					*0.239*	*1.6**
Pentachlorophenol	* 0.148					0.125	19.5*
Phenanthrene	* 1.020					1.029	2.6*
Anthracene	* 1.016					1.039	3.9*
Carbazole	* 0.882					0.872	5.4*
Di-n-butylphthalate	* 1.299					1.308	2.5*
Fluoranthene	* 1.148					1.164	2.6*
Pyrene	* 1.174					1.175	2.7*
Butylbenzylphthalate	* 0.562					0.559	2.9*
3,3'-Dichlorobenzidine	* 0.408					0.408	5.0*
Benzo(a)anthracene	* 1.128					1.118	2.2*
Chrysene	* 1.020					1.018	2.7*
bis(2-Ethylhexyl)phthalate	* 0.808					0.806	2.6*
Di-n-octylphthalate	* 2.105					2.111	1.5*
Benzo(b)fluoranthene	* 1.738					1.637	4.2*
Benzo(k)fluoranthene	* 1.344					1.384	4.0*
Benzo(a)pyrene	* 1.460					1.428	3.7*
Indeno(1,2,3-cd)pyrene	* 1.670					1.639	6.2*
Dibenzo(a,h)anthracene	* 1.422					1.419	2.4*
Benzo(g,h,i)perylene	* 1.445					1.435	2.3*
Nitrobenzene-d5	0.356					0.359	2.3*
2-Fluorobiphenyl	* 1.348					1.362	3.5*
Terphenyl-d14	* 0.825					0.822	1.9*
Phenol-d5	* 1.502					1.558	3.5*
2-Fluorophenol	* 1.250					1.279	2.4*
2,4,6-Tribromophenol	* 0.122					0.118	5.7*
2-Chlorophenol-d4	* 1.262					1.326	4.7*
1,2-Dichlorobenzene-d4	* 0.755					0.814	6.8*

(1) Cannot be seperated from Diphenylamine
* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

001020



CC1022

Data File: S2D0726.D
Report Date: 19-Dec-2002 09:26

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021218_8270_Ical.B\S2D0726
Lab Smp Id: SS1218C Client Smp ID: SSTD0102P
Inj Date : 19-DEC-2002 02:23
Operator : JC Inst ID: s2.i
Smp Info : SS1218C,SSTD0102P
Misc Info : 1,1,SSTD010.3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021218_8270_Ical.B\s2_8270
Meth Date : 19-Dec-2002 09:00 mtl Quant Type: ISTD
Cal Date : 19-DEC-2002 02:23 Cal File: S2D0726.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	1 N-Nitrosodimethylamine	74	4.551	4.552	(0.503)	51205	10.0000	11
	97 Azobenzene	77	16.545	16.555	(0.811)	350438	10.0000	12
	2 Pyridine	79	4.827	4.826	(0.610)	91980	10.0000	10
S	3 2-Fluorophenol	112	6.324	6.320	(0.760)	63483	10.0000	11
S	5 Phenol-d6	99	8.297	8.300	(0.916)	388370	10.6069	11
	6 Phenol	94	8.319	8.325	(0.918)	116171	10.0000	11
	7 Aniline	93	8.817	8.828	(0.933)	109986	10.0000	12
	8 bis(2-Chloroethyl)Ether	93	8.543	8.543	(0.943)	69564	10.0000	12
S	9 2-Chlorophenol-d4	132	8.632	8.642	(0.953)	83343	10.0000	11
	10 2-Chlorophenol	128	8.664	8.666	(0.956)	81852	10.0000	11
	11 1,3-Dichlorobenzene	146	8.886	8.886	(0.980)	92499	10.0000	11
*	12 1,4-Dichlorobenzene-d4	152	9.063	9.063	(1.000)	201493	40.0000	
	13 1,4-Dichlorobenzene	146	9.096	9.096	(1.004)	83806	10.0000	12
	15 Benzyl Alcohol	108	9.271	9.290	(1.024)	55386	10.0000	11
S	14 1,2-Dichlorobenzene-d4	152	9.355	9.386	(1.035)	68362	10.0000	11
	16 1,2-Dichlorobenzene	146	9.387	9.387	(1.036)	78815	10.0000	12
	17 2-Methylphenol	108	9.463	9.463	(1.044)	74243	10.0000	11
	18 2,2'-Oxybis(1-Chloropropane)	45	9.549	9.549	(1.054)	142068	10.0000	12
	20 4-Methylphenol	108	9.746	9.754	(1.075)	80181	10.0000	11
	19 N-Nitroso-di-n-propylamine	70	9.787	9.797	(1.080)	69989	10.0000	14
	21 Hexachloroethane	117	10.035	10.035	(1.107)	32058	10.0000	11
S	22 Nitrobenzene-d5	82	10.108	10.110	(0.876)	74867	10.0000	11
	23 Nitrobenzene	77	10.143	10.156	(0.879)	76918	10.0000	11
	24 Isophorone	82	10.576	10.607	(0.919)	147129	10.0000	11
	25 2-Nitrophenol	139	10.758	10.769	(0.932)	48301	10.0000	10
	26 2,4-Dimethylphenol	107	10.802	10.812	(0.936)	69143	10.0000	11

CC1022

Data File: S2D0726.D
Report Date: 19-Dec-2002 09:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	28 Benzoic Acid	105	10.898	10.976	(0.945)	19648	10.0000	11
	27 bis(2-Chloroethoxy)methane	93	11.007	11.017	(0.954)	38836	10.0000	11
	29 2,4-Dichlorophenol	162	11.221	11.222	(0.972)	58996	10.0000	11
	30 1,2,4-Trichlorobenzene	180	11.417	11.417	(0.988)	64138	10.0000	11
*	31 Naphthalene-d8	136	11.534	11.535	(1.000)	916730	40.0000	
	32 Naphthalene	128	11.579	11.579	(1.004)	217969	10.0000	12
	33 4-Chloroaniline	127	11.654	11.665	(1.010)	87665	10.0000	11
	34 Hexachlorobutadiene	225	11.816	11.826	(1.024)	30851	10.0000	11
	35 4-Chloro-3-methylphenol	107	12.594	12.604	(1.092)	89713	10.0000	10
	36 2-Methylnaphthalene	142	12.973	12.973	(1.124)	139255	10.0000	12
	38 Hexachlorocyclopentadiene	237	13.286	13.284	(0.478)	29334	10.0000	10
	39 2,4,6-Trichlorophenol	196	13.522	13.522	(0.495)	61761	10.0000	11
	40 2,4,5-Trichlorophenol	196	13.687	13.687	(0.499)	63693	10.0000	11
*	41 2-Fluorobiphenyl	172	13.705	13.716	(0.907)	140355	40.0000	12
	42 2-Chloronaphthalene	162	13.964	13.964	(0.924)	113917	10.0000	11
	43 2-Nitroaniline	65	14.169	14.169	(0.936)	37318	10.0000	10
	44 Dimethylphthalate	163	14.526	14.527	(0.961)	140063	10.0000	11
	45 2,6-Dinitrotoluene	165	14.645	14.655	(0.969)	35501	10.0000	10
	46 Acenaphthylene	152	14.817	14.817	(0.979)	201018	10.0000	12
	47 3-Nitroaniline	138	14.988	14.998	(0.992)	37137	10.0000	11
*	48 Acenaphthene-d10	164	15.109	15.109	(1.000)	367325	40.0000	
	49 Acenaphthene	153	15.174	15.174	(1.004)	121874	10.0000	12
	50 2,4-Dinitrophenol	184	15.336	15.206	(1.006)	15490	10.0000	7
	51 4-Nitrophenol	109	15.281	15.292	(1.011)	11482	10.0000	9
	53 2,4-Dinitrotoluene	165	15.465	15.476	(1.024)	42926	10.0000	10
	52 Dibenzofuran	168	15.550	15.550	(1.024)	173713	10.0000	11
	54 Diethylphthalate	149	15.732	15.742	(1.040)	136749	10.0000	11
	55 Fluorene	166	16.232	16.231	(1.074)	147813	10.0000	12
	56 4-Chlorophenyl-phenylether	204	16.221	16.231	(1.074)	67554	10.0000	12
	57 4-Nitroaniline	138	16.232	16.252	(1.074)	36413	10.0000	10
	58 4,6-Dinitro-2-methylphenol	198	16.296	16.307	(0.693)	25906	10.0000	8
	59 N-Nitrosodiphenylamine	169	16.459	16.469	(0.906)	96392	10.0000	12
#	60 2,4,6-Tribromophenol	330	16.717	16.726	(0.920)	23028	10.0000	11
	63 4-Bromophenyl-phenylether	248	17.255	17.255	(0.949)	39355	10.0000	11
	62 Hexachlorobenzene	284	17.354	17.366	(0.955)	43684	10.0000	11
	61 Pentachlorophenol	266	17.742	17.751	(0.977)	37525	10.0000	10
*	64 Phenanthrene-d10	188	18.164	18.164	(1.000)	610355	40.0000	
	65 Phenanthrene	178	18.218	18.216	(1.003)	184933	10.0000	11
	66 Anthracene	178	18.315	18.326	(1.009)	185534	10.0000	12
	67 Carbazole	167	18.628	18.639	(1.026)	146706	10.0000	14
	68 Di-n-butylphthalate	149	19.340	19.351	(1.065)	242151	10.0000	12
	69 Fluoranthene	202	20.457	20.466	(1.717)	193136	10.0000	12
	73 Pyrene	202	21.122	21.122	(0.885)	208513	10.0000	11
S	72 Terphenyl-d14	244	21.439	21.445	(0.898)	139701	10.0000	11
	71 Butylbenzylphthalate	149	22.428	22.439	(0.940)	37491	10.0000	10
	74 3,3'-Dichlorobenzidine	252	23.497	23.514	(0.984)	55275	10.0000	10
	75 Benzo(a)anthracene	228	23.580	23.581	(0.988)	175537	10.0000	11

CC1023

Data File: S2D0726.D
Report Date: 19-Dec-2002 09:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	76 Chrysene-d12	240	23.605	23.604	(1.000)	532313	40.0000	
	77 Chrysene	228	23.649	23.654	(1.002)	142225	10.0000	11
	78 bis(2-Ethylhexyl)phthalate	149	23.596	23.604	(1.000)	142160	10.0000	12
	79 Di-n-octylphthalate	149	24.911	24.921	(0.928)	238030	10.0000	11
	80 Benzo(b)fluoranthene	252	25.942	25.944	(0.963)	157434	10.0000	10
	81 Benzo(k)fluoranthene	252	25.947	25.969	(0.963)	148428	10.0000	11
	82 Benzo(a)pyrene	252	26.746	26.757	(0.934)	142068	10.0000	10
*	83 Perylene-d12	264	26.906	26.906	(1.000)	314266	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	30.470	30.503	(1.133)	139223	10.0000	10
	85 Dibenz(a,h)anthracene	278	30.587	30.588	(1.138)	130309	10.0000	10
	86 Benzo(g,h,i)perylene	276	31.571	31.604	(1.173)	131409	10.0000	10

GL 12/19/02

QC Flag Legend

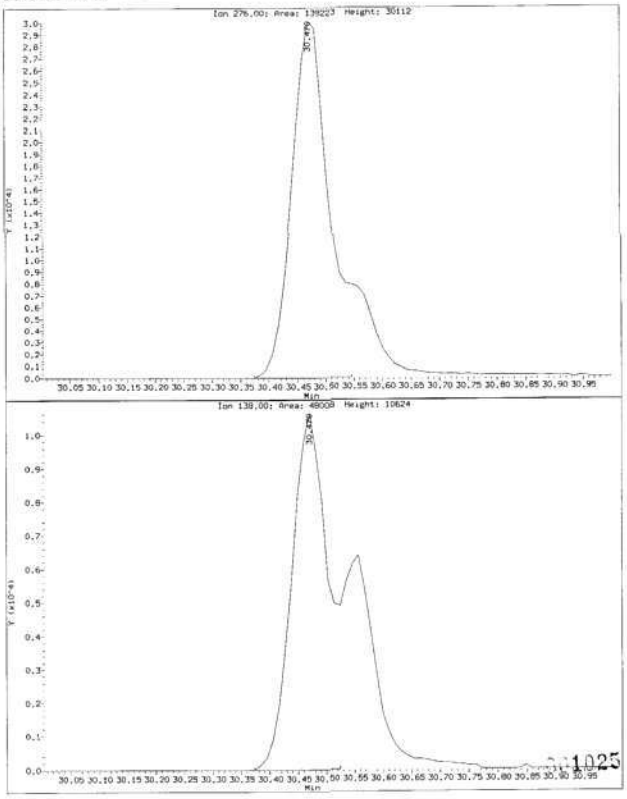
M - Compound response manually integrated.

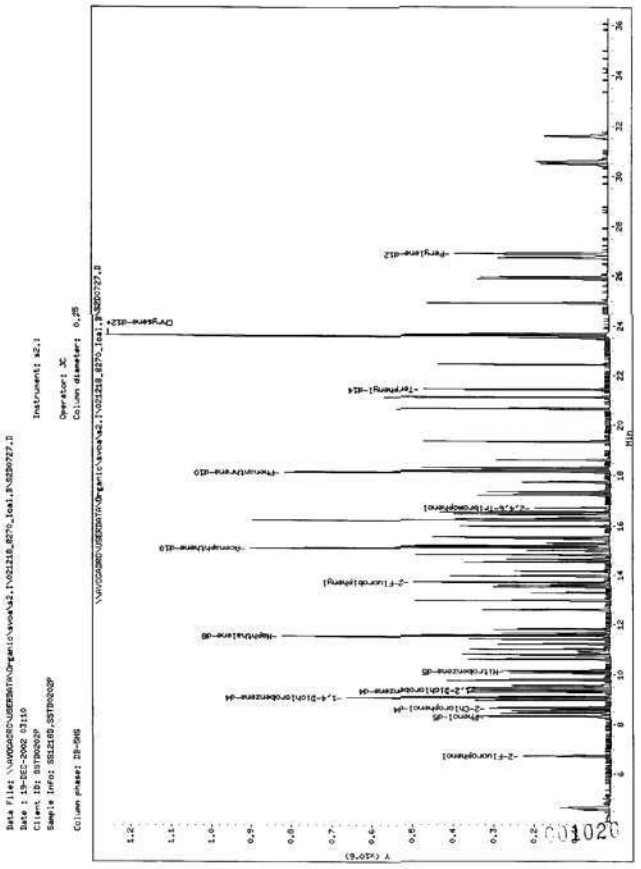
GL 12/19/02

CC1024

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021218_8270_Ical.B\S2D0726.D
Injection Date: 19-DEC-2002 02:23
Instrument: s2.i
Client Sample ID: SSTD0102P

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5





Data File: S2D0727.D
Report Date: 19-Dec-2002 09:26

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021218_8270_Ical.B\S2D0727
Lab Smp Id: SS1218D Client Smp ID: SSTD0202P
Inj Date : 19-DEC-2002 03:10
Operator : JC Inst ID: s2.i
Smp Info : SS1218D,SSTD0202P
Misc Info : 1,2,SSTD020,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021218_8270_Ical.B\s2_8270
Meth Date : 19-Dec-2002 09:00 mtl Quant Type: ISTD
Cal Date : 19-DEC-2002 03:10 Cal File: S2D0727.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	1 N-Nitrosodimethylamine	74	4.552	4.551	(0.502)	93274	20.0000	20
	97 Azobenzene	77	16.556	16.555	(0.911)	275340	20.0000	23
	2 Pyridine	79	4.627	4.626	(0.510)	165158	20.0000	21
$	3 2-Fluorophenol	112	6.722	6.710	(0.741)	148523	20.0000	21
$	5 Phenol-d5	99	8.309	8.308	(0.916)	189052	20.0000	22
	6 Phenol	94	8.338	8.329	(0.918)	197757	20.0000	22
	7 Aniline	93	8.449	8.448	(0.931)	188073	20.0000	21
	8 bis(2-Chloroethyl)Ether	93	8.557	8.545	(0.943)	156907	20.0000	22
$	9 2-Chlorophenol-d4	132	8.643	8.642	(0.952)	148059	20.0000	21
	10 2-Chlorophenol	128	8.676	8.664	(0.956)	145915	20.0000	22
	11 1,3-Dichlorobenzene	146	8.967	8.966	(0.988)	143748	20.0000	22
*	12 1,4-Dichlorobenzene-d4	152	9.075	9.063	(1.000)	183369	40.0000	
	13 1,4-Dichlorobenzene	146	9.107	9.096	(1.004)	151961	20.0000	22
	15 Benzyl Alcohol	108	9.291	9.290	(1.024)	97969	20.0000	21
$	14 1,2-Dichlorobenzene-d4	152	9.366	9.355	(1.032)	87481	20.0000	22
	16 1,2-Dichlorobenzene	146	9.388	9.387	(1.034)	137939	20.0000	22
	17 2-Methylphenol	108	9.474	9.463	(1.044)	130207	20.0000	22
	18 2,2'-oxybis(1-Chloropropane)	45	9.561	9.549	(1.054)	251267	20.0000	22
	20 4-Methylphenol	108	9.755	9.754	(1.075)	144619	20.0000	21
	19 N-Nitroso-di-n-propylamine	70	9.798	9.797	(1.080)	85836	20.0000	32
	21 Hexachloroethane	117	10.047	10.035	(1.107)	57554	20.0000	22
$	22 Nitrobenzene-d5	82	10.111	10.110	(0.876)	133578	20.0000	21
	23 Nitrobenzene	77	10.154	10.154	(0.879)	137814	20.0000	22
	24 Isophorone	82	10.608	10.607	(0.919)	260700	20.0000	22
	25 2-Nitrophenol	139	10.770	10.769	(0.933)	84736	20.0000	22
	26 2,4-Dimethylphenol	107	10.813	10.812	(0.936)	120579	20.0000	21

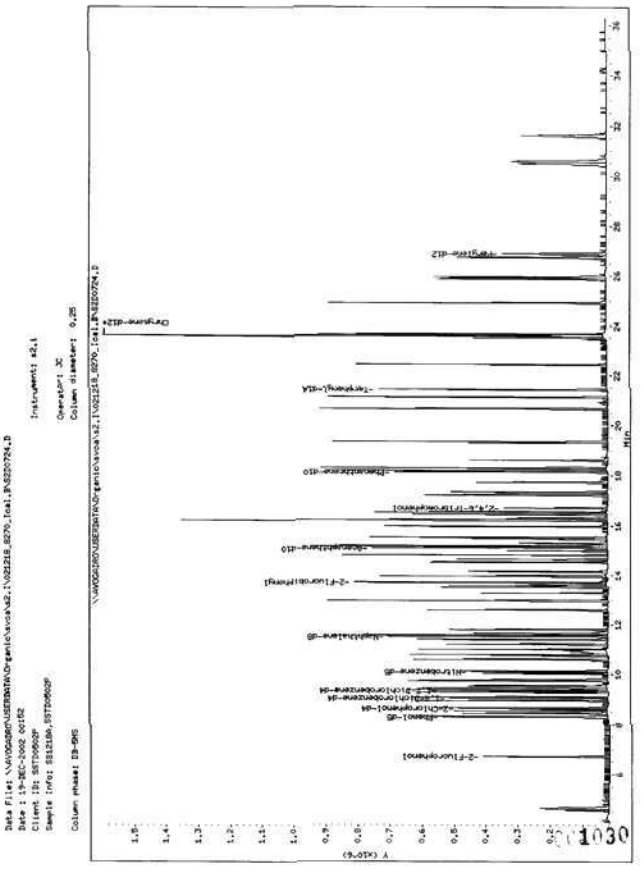
Data File: S2D0727.D
Report Date: 19-Dec-2002 09:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	28 Benzoic Acid	105	10.943	10.974	(0.948)	82620	20.0000	25
	27 bis(2-Chloroethoxy)methane	93	11.018	11.017	(0.954)	175835	20.0000	22
	29 2,4-Dichlorophenol	162	11.234	11.222	(0.973)	107451	20.0000	22
	30 1,2,4-Trichlorobenzene	180	11.418	11.417	(0.989)	113235	20.0000	22
*	31 Naphthalene-d8	136	11.547	11.535	(1.000)	646107	40.0000	
	32 Naphthalene	128	11.590	11.579	(1.004)	381974	20.0000	22
	33 4-Chloroaniline	127	11.666	11.665	(1.010)	154865	20.0000	22
	34 Hexachlorobutadiene	225	11.817	11.814	(1.023)	55376	20.0000	22
	35 4-Chloro-3-Methylphenol	107	12.605	12.604	(1.092)	107998	20.0000	22
	36 2-Methylnaphthalene	142	12.972	12.971	(1.123)	246080	20.0000	23
	38 Hexachlorocyclopentadiene	237	13.285	13.284	(0.879)	54430	20.0000	21
	39 2,4,6-Trichlorophenol	196	13.523	13.522	(0.895)	76122	20.0000	21
	40 2,4,5-Trichlorophenol	196	13.587	13.587	(0.899)	82547	20.0000	22
$	41 2-Fluorobiphenyl	172	13.717	13.716	(0.908)	253860	20.0000	22
	42 2-Chloronaphthalene	162	13.965	13.964	(0.924)	212031	20.0000	22
	43 2-Nitroaniline	65	14.159	14.159	(0.937)	69454	20.0000	21
	44 Dimethylphthalate	163	14.527	14.537	(0.961)	256570	20.0000	22
	45 2,6-Dinitrotoluene	165	14.656	14.655	(0.970)	65743	20.0000	21
	46 Acenaphthylene	152	14.818	14.817	(0.981)	362651	20.0000	22
	47 3-Nitroaniline	138	14.991	15.001	(0.992)	64778	20.0000	21
*	48 Acenaphthene-d10	164	15.109	15.109	(1.000)	338525	40.0000	
	49 Acenaphthene	153	15.174	15.173	(1.004)	220998	20.0000	23
	50 2,4-Dinitrophenol	184	15.207	15.206	(1.006)	33356	20.0000	18
	51 4-Nitrophenol	109	15.293	15.292	(1.012)	21668	20.0000	20
	53 2,4 Dinitrotoluene	165	15.476	15.476	(1.024)	80766	20.0000	21
	52 Dibenzofuran	168	15.530	15.510	(1.028)	314948	20.0000	22
	54 Diethylphthalate	149	15.984	15.983	(1.058)	249028	20.0000	22
	55 Fluorene	166	16.232	16.231	(1.074)	246621	20.0000	24
	56 4-Chlorophenyl-phenylether	204	16.232	16.231	(1.074)	121368	20.0000	23
	57 4-Nitroaniline	138	16.243	16.253	(1.075)	60167	20.0000	35
	58 4,6-Dinitro-2-methylphenol	198	16.308	16.307	(0.898)	54007	20.0000	20
	59 N-Nitrosodiphenylamine	169	16.459	16.469	(0.906)	168456	20.0000	22
$	60 2,4,6-Tribromophenol	330	16.718	16.728	(0.920)	41634	20.0000	21
	61 4-Bromophenyl-phenylether	248	17.234	17.235	(0.949)	69946	20.0000	22
	62 Hexachlorobenzene	284	17.355	17.365	(0.956)	75787	20.0000	21
	63 Pentachlorophenol	266	17.754	17.753	(0.977)	51946	20.0000	21
*	64 Phenanthrene-d10	188	18.164	18.164	(1.000)	659932	40.0000	
	65 Phenanthrene	178	18.218	18.218	(1.003)	339281	20.0000	23
	66 Anthracene	178	18.326	18.326	(1.009)	334607	20.0000	22
	67 Carbazole	167	18.639	18.639	(1.026)	243757	20.0000	24
	68 Di-n-butylphthalate	149	19.352	19.351	(1.065)	441362	20.0000	23
	69 Fluoranthene	202	20.658	20.668	(1.137)	360107	20.0000	23
	71 Pyrene	202	21.133	21.132	(0.895)	371587	20.0000	21
$	72 Terphenyl-d14	244	21.435	21.445	(0.908)	262788	20.0000	21
	73 Butylbenzylphthalate	149	22.429	22.439	(0.950)	181378	20.0000	21
	74 3,3'-Dichlorobenzidine	252	23.508	23.518	(0.996)	102316	20.0000	20
	75 Benzo(a)anthracene	228	23.584	23.583	(0.999)	317145	20.0000	22

Data File: S2D0727.D
Report Date: 19-Dec-2002 09:26

Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL AMT (ng)	ON-COL (ng)
* 76 Chrysene-d12	240	23.605	23.604	(1.000)	485799	40.0000	
77 Chrysene	228	23.659	23.658	(1.002)	292121	20.0000	21
78 bis(2-Ethylhexyl)phthalate	149	23.594	23.604	(1.000)	260883	20.0000	23
79 Di-n-octylphthalate	149	24.922	24.921	(0.926)	445868	20.0000	21
80 Benzo(b)fluoranthene	252	25.894	25.904	(0.962)	304781	20.0000	21
81 Benzo(k)fluoranthene	252	25.959	25.969	(0.965)	271294	20.0000	21
82 Benzo(a)pyrene	252	26.747	26.757	(0.994)	267539	20.0000	21
* 83 Perylene-d12	264	26.909	26.908	(1.000)	297739	40.0000	
84 Indeno(1,2,3-cd)pyrene	276	30.493	30.503	(1.133)	240624	20.0000	18
85 Dibenzo(a,h)anthracene	278	30.568	30.589	(1.136)	255465	20.0000	21
86 Benzo(g,h,i)perylene	276	31.594	31.614	(1.174)	258553	20.0000	21

CL
12/19/02



Data File: S2D0724.D
Report Date: 19-Dec-2002 09:26

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021218_8270_Ical.B\S2D0724
Lab Smp Id: SS1218A Client Smp ID: SSTD0502P
Inj Date : 19-DEC-2002 00:52
Operator : JC Inst ID: s2.i
Smp Info : SS1218A,SSTD0502P
Misc Info : 2,3,SSTD050,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021218_8270_Ical.B\s2_8270
Meth Date : 19-Dec-2002 09:00 mtl Quant Type: ISTD
Cal Date : 19-DEC-2002 00:52 Cal File: S2D0724.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET2

	Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL AMT (ng)	ON-COL (ng)
	1 N-Nitrosodimethylamine	74	4.551	4.551	(0.502)	173767	50.0000	50
	97 Azobenzene	77	16.555	16.555	(0.911)	471592	50.0000	50
	2 Pyridine	79	4.616	4.616	(0.509)	307046	50.0000	50
$	3 2-Fluorophenol	112	6.710	6.710	(0.740)	267687	50.0000	50
$	5 Phenol-d5	99	8.308	8.308	(0.917)	341303	50.0000	50
	6 Phenol	94	8.329	8.329	(0.919)	353944	50.0000	50
	7 Aniline	93	8.448	8.448	(0.932)	348916	50.0000	50
	8 bis(2-Chloroethyl)Ether	93	8.545	8.545	(0.943)	276926	50.0000	50
$	9 2-Chlorophenol-d4	132	8.642	8.642	(0.954)	265496	50.0000	50
	10 2-Chlorophenol	128	8.664	8.664	(0.956)	262776	50.0000	50
	11 1,3-Dichlorobenzene	146	8.966	8.966	(0.989)	259398	50.0000	50
*	12 1,4-Dichlorobenzene-d4	152	9.063	9.063	(1.000)	161480	40.0000	
	13 1,4-Dichlorobenzene	146	9.096	9.096	(1.004)	268918	50.0000	50
	15 Benzyl Alcohol	108	9.290	9.290	(1.025)	179045	50.0000	50
$	14 1,2-Dichlorobenzene-d4	152	9.355	9.355	(1.032)	154897	50.0000	50
	16 1,2-Dichlorobenzene	146	9.387	9.387	(1.036)	245774	50.0000	50
	17 2-Methylphenol	108	9.463	9.463	(1.044)	235063	50.0000	50
	18 2,2'-oxybis(1-Chloropropane)	45	9.549	9.549	(1.054)	446291	50.0000	50
	20 4-Methylphenol	108	9.754	9.754	(1.076)	259366	50.0000	50
	19 N-Nitroso-di-n-propylamine	70	9.797	9.797	(1.081)	155042	50.0000	50
	21 Hexachloroethane	117	10.035	10.035	(1.107)	101593	50.0000	50
$	22 Nitrobenzene-d5	82	10.110	10.110	(0.876)	241702	50.0000	50
	23 Nitrobenzene	77	10.154	10.154	(0.880)	245843	50.0000	50
	24 Isophorone	82	10.607	10.607	(0.920)	463201	50.0000	50
	25 2-Nitrophenol	139	10.769	10.769	(0.934)	148595	50.0000	50
	26 2,4-Dimethylphenol	107	10.812	10.812	(0.937)	216839	50.0000	50

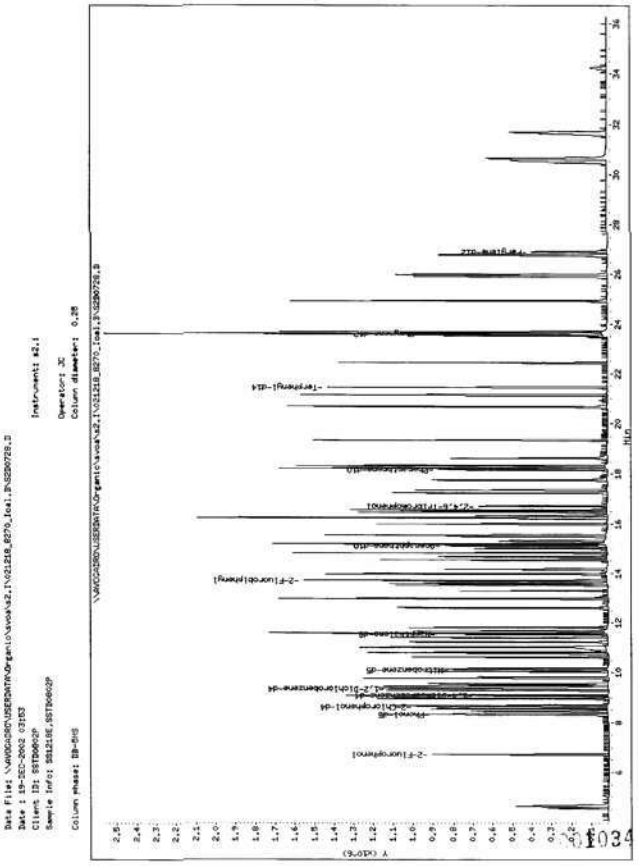
Data File: S2D0724.D
Report Date: 19-Dec-2002 09:26

Compounds	QUANT SIO MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL AMT (ng)	ON-COL (ng)
28 Benzoic Acid	105	10.974	10.974	(0.951)	154840	50.0000	50
27 bis(2-Chloroethoxy)methane	93	11.017	11.017	(0.955)	307440	50.0000	50
29 2,4-Dichlorophenol	162	11.222	11.222	(0.973)	170425	50.0000	50
30 1,2,4-Trichlorobenzene	180	11.417	11.417	(0.990)	203407	50.0000	50
* 31 Naphthalene-d8	136	11.535	11.535	(1.000)	533969	40.0000	
32 Naphthalene	128	11.579	11.579	(1.004)	671159	50.0000	50
33 4-Chloroaniline	127	11.665	11.665	(1.011)	277811	50.0000	50
34 Hexachlorobutadiene	225	11.816	11.816	(1.024)	97401	50.0000	50
35 4-Chloro-3-Methylphenol	107	12.604	12.604	(1.093)	196094	50.0000	50
36 2-Methylnaphthalene	142	12.971	12.971	(1.124)	429304	50.0000	50
38 Hexachlorocyclopentadiene	237	13.284	13.284	(0.879)	100459	50.0000	50
39 2,4,6-Trichlorophenol	196	13.522	13.522	(0.895)	136576	50.0000	50
40 2,4,5-Trichlorophenol	196	13.587	13.587	(0.899)	141353	50.0000	50
$ 41 2-Fluorobiphenyl	172	13.716	13.716	(0.908)	441570	50.0000	50
42 2-Chloronaphthalene	162	13.964	13.964	(0.924)	374062	50.0000	50
43 2-Nitroaniline	65	14.159	14.159	(0.937)	123401	50.0000	50
44 Dimethylphthalate	163	14.537	14.537	(0.962)	448989	50.0000	50
45 2,6-Dinitrotoluene	165	14.655	14.655	(0.970)	118633	50.0000	50
46 Acenaphthylene	152	14.817	14.817	(0.981)	634882	50.0000	50
47 3-Nitroaniline	138	15.001	15.001	(0.993)	103803	50.0000	50
* 48 Acenaphthene-d10	164	15.109	15.109	(1.000)	273165	40.0000	
49 Acenaphthene	153	15.173	15.173	(1.004)	384070	50.0000	50
50 2,4-Dinitrophenol	184	15.206	15.206	(1.006)	69416	50.0000	50
51 4-Nitrophenol	109	15.292	15.292	(1.012)	40661	50.0000	50
53 2,4-Dinitrotoluene	165	15.476	15.476	(1.024)	146405	50.0000	50
52 Dibenzofuran	168	15.530	15.530	(1.028)	548565	50.0000	50
54 Diethylphthalate	149	15.993	15.993	(1.058)	437561	50.0000	50
55 Fluorene	166	16.231	16.231	(1.074)	418399	50.0000	50
56 4-Chlorophenyl-phenylether	204	16.231	16.231	(1.074)	209376	50.0000	50
57 4-Nitroaniline	138	16.253	16.253	(1.076)	89362	50.0000	50
58 4,6-Dinitro-2-methylphenol	198	16.307	16.307	(0.898)	101952	50.0000	50
59 N-Nitrosodiphenylamine	169	16.469	16.469	(0.907)	290693	50.0000	50
$ 60 2,4,6-Tribromophenol	330	16.728	16.728	(0.921)	76083	50.0000	50
61 4-Bromophenyl-phenylether	248	17.235	17.235	(0.949)	125364	50.0000	50
62 Hexachlorobenzene	284	17.365	17.365	(0.956)	137253	50.0000	50
63 Pentachlorophenol	266	17.753	17.753	(0.977)	97070	50.0000	50
* 64 Phenanthrene-d10	188	18.164	18.164	(1.000)	459235	40.0000	
65 Phenanthrene	178	18.218	18.218	(1.003)	584712	50.0000	50
66 Anthracene	178	18.326	18.326	(1.009)	586453	50.0000	50
67 Carbazole	167	18.639	18.639	(1.026)	364928	50.0000	50
68 Di-n-butylphthalate	149	19.351	19.351	(1.065)	762606	50.0000	50
69 Fluoranthene	202	20.668	20.668	(1.138)	619710	50.0000	50
71 Pyrene	202	21.132	21.132	(0.895)	640321	50.0000	50
$ 72 Terphenyl-d14	244	21.445	21.445	(0.909)	441716	50.0000	50
73 Butylbenzylphthalate	149	22.439	22.439	(0.951)	319782	50.0000	50
74 3,3'-Dichlorobenzidine	252	23.518	23.518	(0.996)	172453	50.0000	50
75 Benzo(a)anthracene	228	23.583	23.583	(0.999)	544211	50.0000	50

Data File: S2D0724.D
Report Date: 19-Dec-2002 09:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	76 Chrysene-d12	240	23.604	23.604	(1.000)	384984	40.0000	
	77 Chrysene	228	23.658	23.658	(1.002)	511791	50.0000	50
	78 bis(2-Ethylhexyl)phthalate	149	23.604	23.604	(1.000)	433910	50.0000	50
	79 Di-n-octylphthalate	149	24.921	24.921	(0.926)	785072	50.0000	50
	80 Benzo(b)fluoranthene	252	25.904	25.904	(0.963)	537031	50.0000	50
	81 Benzo(k)fluoranthene	252	25.969	25.969	(0.965)	470613	50.0000	50
	82 Benzo(a)pyrene	252	26.757	26.757	(0.994)	463431	50.0000	50
*	83 Perylene-d12	264	26.908	26.908	(1.000)	236217	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	30.503	30.503	(1.134)	462298	50.0000	50
	85 Dibenzo(a,h)anthracene	278	30.589	30.589	(1.137)	459553	50.0000	50
	86 Benzo(g,h,i)perylene	276	31.614	31.614	(1.175)	443129	50.0000	50

GL
12/19/02



Data File: S2D0728.D
Report Date: 19-Dec-2002 09:26

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021218_8270_Ical.B\S2D0728
Lab Smp Id: SS1218E Client Smp ID: SSTD0802P
Inj Date : 19-DEC-2002 03:53
Operator : JC Inst ID: s2.i
Smp Info : SS1218E,SSTD0802P
Misc Info : 1,4,SSTD080,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021218_8270_Ical.B\s2_8270
Meth Date : 19-Dec-2002 09:00 mtl Quant Type: ISTD
Cal Date : 19-DEC-2002 03:53 Cal File: S2D0728.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	1 N-Nitrosodimethylamine	74	4.561	4.551	(0.503)	384572	80.0000	80
	97 Azobenzene	77	16.565	16.555	(0.911)	971577	80.0000	78
	2 Pyridine	79	4.626	4.616	(0.510)	689965	80.0000	81
$	3 2-Fluorophenol	112	6.720	6.720	(0.741)	592170	80.0000	80
$	5 Phenol-d5	99	8.319	8.304	(0.917)	735147	80.0000	80
	6 Phenol	94	8.350	8.329	(0.920)	755758	80.0000	80
	7 Aniline	93	8.458	8.448	(0.932)	698121	80.0000	76
	8 bis(2-Chloroethyl)Ether	93	8.556	8.545	(0.943)	587937	80.0000	79
$	9 2-Chlorophenol-d4	132	8.653	8.642	(0.954)	582959	80.0000	80
	10 2-Chlorophenol	128	8.674	8.664	(0.956)	568271	80.0000	80
	11 1,3-Dichlorobenzene	146	8.966	8.966	(0.988)	554526	80.0000	80
*	12 1,4-Dichlorobenzene-d4	152	9.074	9.063	(1.000)	193228	40.0000	
	13 1,4-Dichlorobenzene	146	9.106	9.096	(1.004)	570806	80.0000	80
	15 Benzyl Alcohol	108	9.300	9.290	(1.025)	393691	80.0000	80
$	14 1,2-Dichlorobenzene-d4	152	9.365	9.355	(1.032)	329906	80.0000	80
	16 1,2-Dichlorobenzene	146	9.398	9.387	(1.036)	514675	80.0000	79
	17 2-Methylphenol	108	9.484	9.463	(1.045)	506502	80.0000	80
	18 2,2'-oxybis(1-Chloropropane)	45	9.559	9.549	(1.054)	925931	80.0000	78
	20 4-Methylphenol	108	9.775	9.754	(1.077)	557959	80.0000	79
	19 N-Nitroso-di-n-propylamine	70	9.829	9.797	(1.083)	330758	80.0000	100
	21 Hexachloroethane	117	10.045	10.035	(1.107)	219187	80.0000	80
$	22 Nitrobenzene-d5	82	10.121	10.110	(0.877)	515377	80.0000	79
	23 Nitrobenzene	77	10.164	10.154	(0.880)	529525	80.0000	80
	24 Isophorone	82	10.628	10.607	(0.921)	988731	80.0000	78
	25 2-Nitrophenol	139	10.779	10.769	(0.934)	330487	80.0000	81
	26 2,4-Dimethylphenol	107	10.822	10.811	(0.937)	466500	80.0000	78

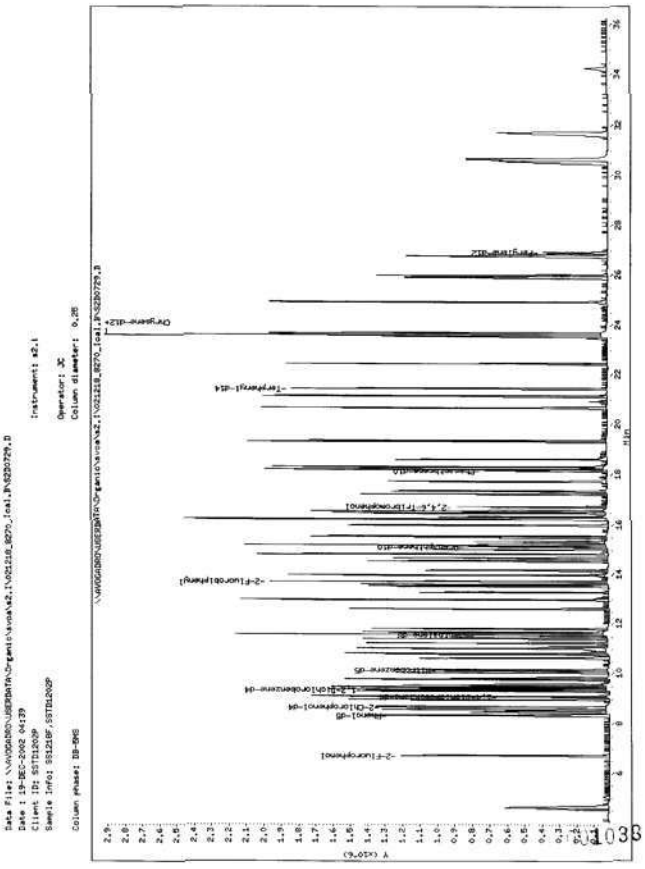
Data File: S2D0728.D
Report Date: 19-Dec-2002 09:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	28 Benzoic Acid	105	11.040	10.374	(0.956)	350359	80.0000	100
	27 bis(2-Chloroethoxy)methane	93	11.028	11.017	(0.955)	651793	80.0000	79
	29 2,4-Dichlorophenol	162	11.243	11.222	(0.974)	421790	80.0000	81
	30 1,2,4-Trichlorobenzene	180	11.427	11.417	(0.990)	437543	80.0000	80
*	31 Naphthalene-d8	136	11.546	11.535	(1.000)	680053	40.0000	
	32 Naphthalene	128	11.589	11.579	(1.004)	1406386	80.0000	79
	33 4-Chloroaniline	127	11.675	11.665	(1.011)	590940	80.0000	79
	34 Hexachlorobutadiene	225	11.816	11.816	(1.023)	212319	80.0000	80
	35 4-Chloro-3-Methylphenol	107	12.614	12.604	(1.093)	426626	80.0000	81
	36 2-Methylnaphthalene	142	12.981	12.971	(1.124)	895476	80.0000	79
	37 1-Methylnaphalene	142	14.137	13.192	(1.224)	1440	80.0000	72
	38 Hexachlorocyclopentadiene	237	13.295	13.284	(0.879)	226788	80.0000	84
	39 2,4,6-Trichlorophenol	196	13.532	13.522	(0.895)	303085	80.0000	81
	40 2,4,5-Trichlorophenol	196	13.597	13.587	(0.899)	314438	80.0000	81
$	41 2-Fluorobiphenyl	172	13.716	13.716	(0.907)	930365	80.0000	80
	42 2-Chloronaphthalene	162	13.975	13.964	(0.924)	798306	80.0000	79
	43 2-Nitroaniline	65	14.169	14.159	(0.937)	271410	80.0000	80
	44 Dimethylphthalate	163	14.547	14.537	(0.962)	973012	80.0000	80
	45 2,6-Dinitrotoluene	165	14.676	14.655	(0.971)	270026	80.0000	82
	46 Acenaphthylene	152	14.827	14.817	(0.981)	1321324	80.0000	79
	47 3-Nitroaniline	138	15.011	15.001	(0.993)	267963	80.0000	82
*	48 Acenaphthene-d10	164	15.119	15.109	(1.000)	351407	40.0000	
	49 Acenaphthene	153	15.184	15.173	(1.004)	797757	80.0000	79
	50 2,4-Dinitrophenol	184	15.216	15.206	(1.006)	181327	80.0000	89
	51 4-Nitrophenol	109	15.313	15.292	(1.013)	95865	80.0000	83
	53 2,4-Dinitrotoluene	165	15.497	15.476	(1.025)	326428	80.0000	82
	52 Dibenzofuran	168	15.540	15.530	(1.028)	1172852	80.0000	80
	54 Diethylphthalate	149	15.993	15.983	(1.058)	917784	80.0000	80
	55 Fluorene	166	16.252	16.231	(1.075)	804746	80.0000	76
	56 4-Chlorophenyl phenylether	204	16.231	16.231	(1.074)	428320	80.0000	78
	57 4-Nitroaniline	138	16.274	16.253	(1.076)	205972	80.0000	100
	58 4,6 Dinitro-2-methylphenol	198	16.339	16.307	(0.899)	251240	80.0000	86
	59 N-Nitrosodiphenylamine	169	16.479	16.469	(0.907)	607513	80.0000	78
$	60 2,4,6-Tribromophenol	330	16.738	16.728	(0.921)	169345	80.0000	83
	61 4-Bromophenyl-phenylether	248	17.246	17.238	(0.949)	268908	80.0000	80
	62 Hexachlorobenzene	284	17.376	17.365	(0.956)	291771	80.0000	80
	63 Pentachlorophenol	266	17.764	17.753	(0.977)	215913	80.0000	83
*	64 Phenanthrene-d10	188	18.174	18.164	(1.000)	580074	40.0000	
	65 Phenanthrene	178	18.228	18.218	(1.003)	1225167	80.0000	80
	66 Anthracene	178	18.336	18.326	(1.009)	1216172	80.0000	79
	67 Carbazole	167	18.638	18.639	(1.026)	727797	80.0000	71
	68 Di-n-butylphthalate	149	19.361	19.351	(1.065)	1672156	80.0000	79
	69 Fluoranthene	202	20.678	20.668	(1.138)	1280262	80.0000	78
	71 Pyrene	202	21.153	21.132	(0.895)	1320064	80.0000	80
$	72 Terphenyl-d14	244	21.445	21.445	(0.908)	913439	80.0000	81
	73 Butylbenzylphthalate	149	22.449	22.439	(0.950)	678854	80.0000	82
	74 3,3'-Dichlorobenzidine	252	23.528	23.518	(0.996)	403070	80.0000	82

Data File: S2D0728.D
Report Date: 19-Dec-2002 09:26

Compounds	QUANT STG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
75 Benzo(a)anthracene	228	23.593	23.583	(0.999)	1079325	80.0000	80
* 76 Chrysene-d12	240	23.626	23.604	(1.000)	457089	40.0000	
77 Chrysene	228	23.679	23.658	(1.002)	1055991	80.0000	80
78 bis(2 Ethylhexyl)phthalate	149	23.606	23.604	(0.999)	805827	80.0000	77
79 Di-n-octylphthalate	149	24.932	24.921	(0.926)	1640239	80.0000	80
80 Benzo(b)fluoranthene	252	25.914	25.904	(0.963)	1134094	80.0000	80
81 Benzo(k)fluoranthene	252	25.990	25.969	(0.966)	1049413	80.0000	83
82 Benzo(a)pyrene	252	26.788	26.757	(0.995)	1034605	80.0000	81
* 83 Perylene-d12	264	26.918	26.908	(1.000)	292539	40.0000	
84 Indeno(1,2,3-cd)pyrene	276	30.545	30.503	(1.135)	1057617	80.0000	77
85 Dibenzo(a,h)anthracene	278	30.642	30.589	(1.138)	964894	80.0000	82
86 Benzo(g,h,i)perylene	276	31.679	31.434	(1.177)	963336	80.0000	81

Gc 12/19/02



Data File: S2D0729.D
Report Date: 19-Dec-2002 09:26

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021218_8270_Ical.B\S2D0729
Lab Smp Id: SS1218F Client Smp ID: SSTD1202P
Inj Date : 19-DEC-2002 04:39
Operator : JC Inst ID: s2.i
Smp Info : SS1218F,SSTD1202P
Misc Info : 1,5,SSTD120,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021218_8270_Ical.B\s2_8270
Meth Date : 19-Dec-2002 09:00 mtl Quant Type: ISTD
Cal Date : 19-DEC-2002 04:39 Cal File: S2D0729.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET2

Compounds	QUANT STG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
1 N-Nitrosodimethylamine	74	4.570	4.551	(0.503)	545301	120.000	120
97 Azobenzene	77	16.574	16.555	(0.912)	1337261	120.000	120
2 Pyridine	79	4.635	4.616	(0.510)	975939	120.000	120
$ 3 2-Fluorophenol	112	6.729	6.710	(0.741)	925548	120.000	120
$ 5 Phenol-d5	99	8.338	8.308	(0.918)	1042688	120.000	120
6 Phenol	94	8.370	8.329	(0.922)	1041096	120.000	120
7 Aniline	93	8.478	8.448	(0.933)	986055	120.000	110
8 bis(2-Chloroethyl)Ether	93	8.575	8.545	(0.944)	802142	120.000	120
$ 9 2-Chlorophenol-d4	132	8.661	8.642	(0.954)	815146	120.000	120
10 2-Chlorophenol	128	8.694	8.664	(0.957)	788022	120.000	120
11 1,3-Dichlorobenzene	146	8.974	8.964	(0.988)	748870	120.000	120
* 12 1,4-Dichlorobenzene-d4	152	9.082	9.063	(1.000)	180065	40.0000	
13 1,4-Dichlorobenzene	146	9.115	9.096	(1.004)	770529	120.000	120
15 Benzyl Alcohol	108	9.320	9.290	(1.026)	552552	120.000	120
$ 14 1,2-Dichlorobenzene-d4	152	9.374	9.355	(1.033)	449891	120.000	120
16 1,2-Dichlorobenzene	146	9.406	9.387	(1.036)	691808	120.000	120
17 2-Methylphenol	108	9.493	9.463	(1.045)	769451	120.000	120
18 2,2'-oxybis(1-Chloropropane)	45	9.568	9.549	(1.053)	1278734	120.000	120
20 4-Methylphenol	108	9.795	9.754	(1.078)	785920	120.000	120
19 N-Nitroso-di-n-propylamine	70	9.849	9.797	(1.084)	662201	120.000	150
21 Hexachloroethane	117	10.054	10.035	(1.109)	294704	120.000	120
$ 22 Nitrobenzene-d5	82	10.140	10.110	(0.878)	733514	120.000	120
23 Nitrobenzene	77	10.173	10.154	(0.880)	736442	120.000	120
24 Isophorone	82	10.648	10.607	(0.922)	1413770	120.000	120
25 2-Nitrophenol	139	10.788	10.769	(0.934)	471630	120.000	120
26 2,4-Dimethylphenol	107	10.831	10.812	(0.937)	679388	120.000	120

Data File: S2D0729.D
Report Date: 19-Dec-2002 09:26

Compounds	QUANT STG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
28 Benzoic Acid	105	11.112	10.974	(0.962)	598746	120.000	160(M)
27 bis(2-Chloroethoxy)methane	93	11.047	11.017	(0.956)	893145	120.000	120
29 2,4-Dichlorophenol	162	11.252	11.222	(0.974)	599355	120.000	120
30 1,2,4-Trichlorobenzene	180	11.436	11.417	(0.990)	594823	120.000	120
* 31 Naphthalene-d8	136	11.554	11.535	(1.000)	633635	40.0000	
32 Naphthalene	128	11.598	11.579	(1.004)	1895701	120.000	120
33 4-Chloroaniline	127	11.684	11.665	(1.011)	816785	120.000	120
34 Hexachlorobutadiene	225	11.824	11.816	(1.023)	290736	120.000	120
35 4-Chloro-3-Methylphenol	107	12.623	12.604	(1.092)	594484	120.000	130
36 2-Methylnaphthalene	142	12.990	12.971	(1.124)	1212370	120.000	120
37 1-Methylnaphthalene	142	13.271	13.192	(1.149)	1750	120.000	100(T)
38 Hexachlorocyclopentadiene	237	13.292	13.284	(0.879)	314768	120.000	120
39 2,4,6-Trichlorophenol	196	13.541	13.522	(0.896)	426448	120.000	120
40 2,4,5-Trichlorophenol	196	13.606	13.587	(0.900)	437641	120.000	120
$ 41 2-Fluorobiphenyl	172	13.724	13.736	(0.904)	1258608	120.000	120
42 2-Chloronaphthalene	162	13.983	13.964	(0.925)	1100747	120.000	120
43 2-Nitroaniline	65	14.178	14.159	(0.938)	393907	120.000	120
44 Dimethylphthalate	163	14.556	14.537	(0.963)	1392859	120.000	120
45 2,6-Dinitrotoluene	165	14.685	14.655	(0.971)	387199	120.000	120
46 Acenaphthylene	152	14.836	14.817	(0.981)	1803321	120.000	120
47 3-Nitroaniline	138	15.010	15.001	(0.994)	397428	120.000	130
* 48 Acenaphthene-d10	164	15.117	15.109	(1.000)	332098	40.0000	
49 Acenaphthene	153	15.192	15.173	(1.005)	1048109	120.000	120
50 2,4-Dinitrophenol	184	15.334	15.206	(1.008)	272888	120.000	140
51 4-Nitrophenol	109	15.333	15.292	(1.014)	143776	120.000	130
53 2,4-Dinitrotoluene	165	15.505	15.476	(1.026)	472868	120.000	120
52 Dibenzofuran	168	15.549	15.530	(1.029)	1624979	120.000	120
54 Diethylphthalate	149	16.013	15.983	(1.059)	1299148	120.000	120
55 Fluorene	166	16.261	16.231	(1.076)	1094551	120.000	110
56 4-Chlorophenyl-phenylether	204	16.240	16.231	(1.074)	649130	120.000	110
57 4-Nitroaniline	138	16.304	16.253	(1.079)	310070	120.000	150
58 4,6-Dinitro-2-methylphenol	198	16.347	16.307	(0.900)	365997	120.000	130
59 N-Nitrosodiphenylamine	169	16.488	16.469	(0.907)	829648	120.000	110
$ 60 2,4,6-Tribromophenol	330	16.747	16.728	(0.922)	227668	120.000	120
61 4-Bromophenyl-phenylether	248	17.294	17.235	(0.950)	368930	120.000	120
62 Hexachlorobenzene	284	17.384	17.365	(0.957)	392148	120.000	110
63 Pentachlorophenol	266	17.762	17.753	(0.977)	299279	120.000	120
* 64 Phenanthrene-d10	188	18.172	18.164	(1.000)	548821	40.0000	
65 Phenanthrene	178	18.237	18.218	(1.004)	1670447	120.000	120
66 Anthracene	178	18.345	18.326	(1.010)	1665152	120.000	120
67 Carbazole	167	18.647	18.639	(1.026)	1120813	120.000	120
68 Di-n-butylphthalate	149	19.359	19.351	(1.065)	2148736	120.000	110
69 Fluoranthene	202	20.687	20.668	(1.138)	1758669	120.000	120
71 Pyrene	202	21.151	21.132	(0.895)	1817089	120.000	120
$ 72 Terphenyl-d14	244	21.454	21.445	(0.908)	1235064	120.000	120
73 Butylbenzylphthalate	149	22.447	22.439	(0.950)	942744	120.000	120
74 3,3'-Dichlorobenzidine	252	23.537	23.518	(0.996)	582416	120.000	130

1 Gc 12/19/02

Data File: S2D0729.D
Report Date: 19-Dec-2002 09:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
75 Benzo(a)anthracene	228	23.602	23.583	(0.999)	1394114	120.000	120
* 76 Chrysene-d12	240	23.623	23.604	(1.000)	409477	40.0000	
77 Chrysene	228	23.688	23.658	(1.003)	1447256	120.000	120
78 bis(2-Ethylhexyl)phthalate	149	23.613	23.594	(1.000)	1017512	120.000	116
79 Di-n-octylphthalate	149	24.940	24.921	(0.926)	2246883	120.000	120
80 Benzo(b)fluoranthene	252	25.934	25.904	(0.963)	1679600	120.000	120
81 Benzo(k)fluoranthene	252	26.009	25.969	(0.966)	1390665	120.000	120
82 Benzo(a)pyrene	252	26.797	26.757	(0.995)	1428297	120.000	120
* 83 Perylene-d12	264	26.927	26.908	(1.000)	293386	40.0000	
84 Indeno(1,2,3-cd)pyrene	276	30.565	30.503	(1.135)	1519835	120.000	120(M) 2
85 Dibenzo(a,h)anthracene	278	30.662	30.589	(1.139)	1347838	120.000	120
86 Benzo(g,h,i)perylene	276	31.709	31.414	(1.178)	1353407	120.000	120

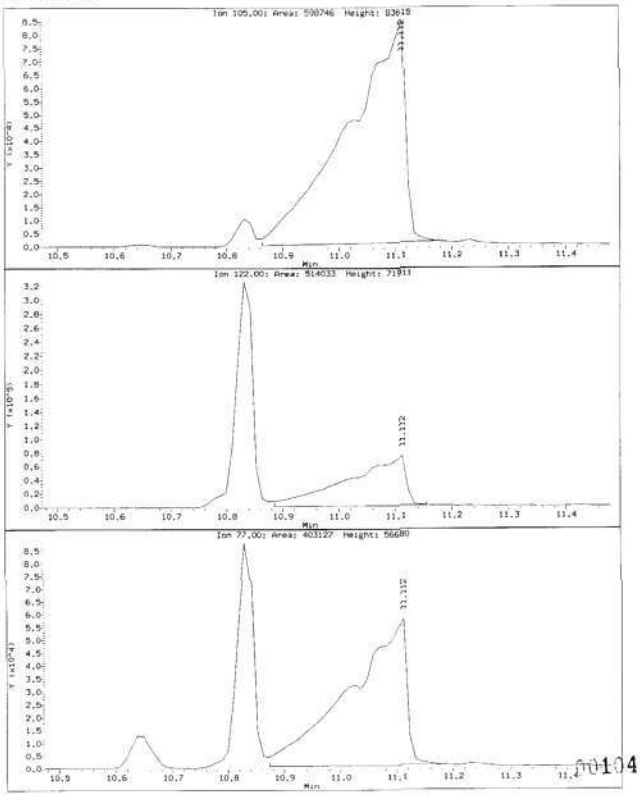
QC 12/19/02

QC Flag Legend

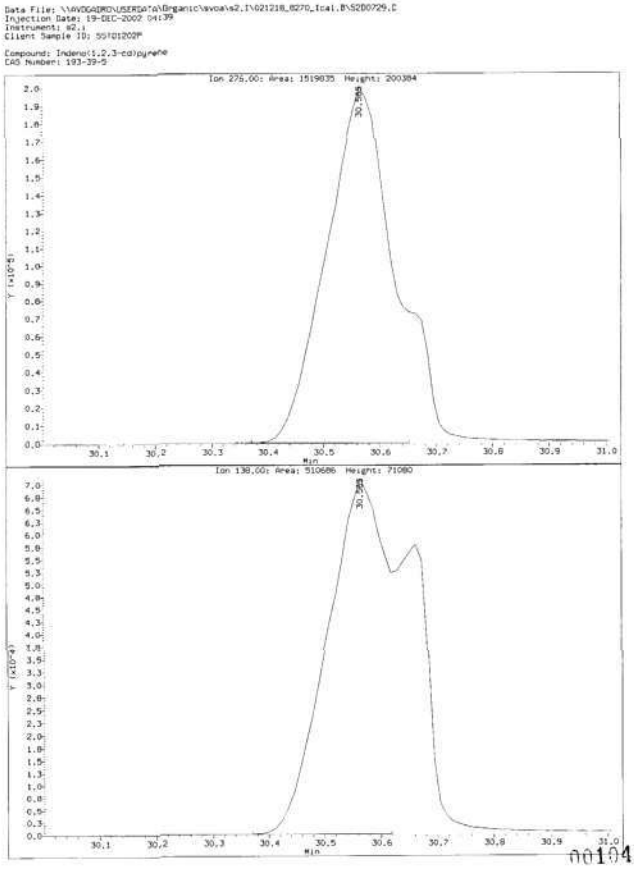
T - Target compound detected outside RT window.
M - Compound response manually integrated.

QC 12/19/02

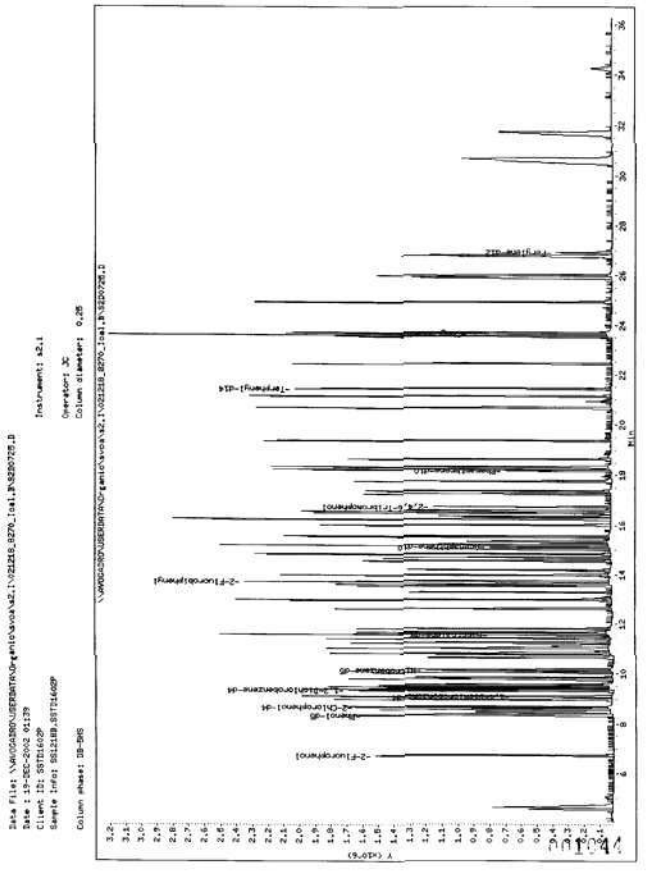
001041



001042



001043



001044

Data File: S2D0725.D
Report Date: 19-Dec-2002 09:26

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021218_8270_Ical.B\S2D0725
Lab Smp Id: SS1218B
Client Smp ID: SSTD1602P
Inj Date : 19-DEC-2002 01:39
Operator : JC
Inst ID: s2.i
Smp Info : SS1218B,SSTD1602P
Misc Info : 1,5,SSTD160,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021218_8270_Ical.B\s2_8270
Meth Date : 19-Dec-2002 09:00 mtl
Quant Type: ISTD
Cal Date : 19-DEC-2002 01:39
Cal File: S2D0725.D
Als bottle: 3
Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	
1	N-Nitrosodimethylamine	74	4.671	4.551	(0.503)	747139	160.000	160(AM)	
97	Azobenzene	77	16.586	16.335	(0.712)	1525667	160.000	150	
2	Pyridine	79	4.816	4.656	(0.510)	1315042	160.000	160(AM)	
# 3	2-Fluorophenol	112	5.710	5.710	(0.741)	1098768	160.000	160	
$ 4	Phenol-d5	99	8.349	8.184	(0.919)	1551042	160.000	150	
5	Phenol	94	8.382	8.215	(0.923)	1552621	160.000	150	
7	Aniline	93	8.498	8.444	(0.935)	1323348	160.000	150	
8	bis(2-Chloroethyl)Ether	93	8.587	8.444	(0.945)	1041435	160.000	156	
# 9	2-Chlorophenol-d4	132	8.662	8.642	(0.954)	1073885	160.000	160	
10	2-Chlorophenol	128	8.695	8.644	(0.957)	1018758	160.000	150	
11	1,3-Dichlorobenzene	146	8.986	8.964	(0.989)	980621	160.000	160	
* 12	1,4-Dichlorobenzene-d4	152	9.065	9.065	(1.000)	195207	40.0000		
13	1,4-Dichlorobenzene	146	9.114	9.096	(1.004)	980153	160.000	160	
15	Benzyl Alcohol	108	9.332	9.279	(1.027)	724132	160.000	160	
# 16	1,2-Dichlorobenzene-d4	152	9.375	9.355	(1.032)	576917	160.000	160	
18	1,2-Dichlorobenzene	146	9.407	9.387	(1.036)	874686	160.000	160	
17	2-Methylphenol	108	9.505	9.462	(1.046)	909595	160.000	150	
19	2,2'-Oxybis(1-Chloropropane)	45	9.580	9.543	(1.055)	1838727	160.000	150	
20	4-Methylphenol	108	9.607	9.754	(1.088)	1041490	160.000	160	
21	N-Nitroso-di-n-propylamine	70	9.871	9.797	(1.049)	601152	160.000	150(C)	
31	Hexachloroethane	117	10.055	10.015	(1.109)	579044	160.000	150	
# 22	Nitrobenzene-d5	82	10.261	10.220	(0.878)	863691	160.000	160	
23	Nitrobenzene	77	10.345	10.454	(0.881)	948812	160.000	156	
24	Isophorone	82	10.660	10.607	(0.923)	1855363	160.000	160	
25	2-Nitrophenol	139	10.765	10.749	(0.934)	619015	160.000	160(AM)	
26	2,4-Dimethylphenol	107	10.841	10.812	(0.938)	897156	160.000	160	

001045

Data File: S2D0725.D
Report Date: 19-Dec-2002 09:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	
27	Benzoic Acid	105	11.145	10.974	(0.965)	793884	160.000	180(AM)	GL 12/19/02
27	bis(2-Chloroethoxy)methane	93	11.048	12.917	(0.956)	1138163	160.000	150	
29	2,4-Dichlorophenol	162	11.264	11.228	(0.975)	748241	160.000	160	
30	1,2,4-Trichlorobenzene	180	11.457	11.432	(0.990)	798187	160.000	150	
* 33	Naphthalene-d8	136	11.554	11.528	(1.000)	432461	40.0000		
32	Naphthalene	128	11.610	11.573	(1.005)	2157123	160.000	160	
34	4-Chloroaniline	127	11.683	11.665	(1.011)	1046754	160.000	152	
35	Hexachlorobutadiene	225	11.826	11.816	(1.023)	379162	160.000	150	
36	4-Chloro-3-methylphenol	107	12.624	12.604	(1.092)	766812	160.000	160	
38	2-Methylnaphthalene	142	12.995	12.975	(1.124)	1515721	160.000	160	
37	1-Methylnaphthalene	142	13.118	13.098	(1.135)	5264	160.000	150(TA)	
39	Hexachlorocyclopentadiene	237	13.284	13.264	(0.879)	450053	160.000	160	
40	2,4,6-Trichlorophenol	196	13.540	13.520	(0.896)	644652	160.000	160	
41	2,4,5-Trichlorophenol	196	13.617	13.597	(0.901)	946919	160.000	150	
$ 42	2-Fluorobiphenyl	172	13.736	13.716	(0.909)	1549161	160.000	160	
43	2-Chloronaphthalene	162	13.778	13.758	(0.926)	1348545	160.000	150	
45	2-Nitroaniline	65	14.190	14.170	(0.939)	949297	160.000	160(A)	
44	Dimethylphthalate	163	14.567	14.547	(0.966)	1749376	160.000	160	
46	2,6-Dinitrotoluene	165	14.647	14.665	(0.972)	491535	160.000	164(A)	
48	Acenaphthylene	152	14.848	14.817	(0.982)	2194203	160.000	160	
47	3-Nitroaniline	138	15.042	15.001	(0.994)	525116	160.000	170(A)	
* 49	Acenaphthene-d10	164	15.118	15.109	(1.000)	151288	40.0000		
49	Acenaphthene	153	15.206	15.173	(1.006)	1225830	160.000	160	
50	2,4-Dinitrophenol	184	15.267	15.208	(1.009)	396342	160.000	300(A)	
51	4-Nitrophenol	109	15.366	15.292	(1.015)	167765	160.000	276(A)	
52	2,4-Dinitrotoluene	165	15.517	15.476	(1.026)	594206	160.000	160(A)	
53	Dibenzofuran	168	15.561	15.520	(1.029)	1563634	160.000	158	
54	Diethylphthalate	149	15.614	15.582	(1.033)	1577686	160.000	156	
55	Fluorene	166	15.842	15.831	(1.050)	1288514	160.000	150	
56	4-Chlorophenyl-phenylether	204	16.751	16.731	(1.079)	657495	160.000	164	
57	4-Nitroaniline	138	16.916	16.853	(1.079)	4123795	160.000	160(AM)	
58	4,6-Dinitro-2-methylphenol	198	16.978	16.907	(0.960)	466801	160.000	170(A)	
59	N-Nitrosodiphenylamine	169	16.998	16.968	(0.967)	1039664	160.000	150	
$ 86	2,4,6-Tribromophenol	330	16.748	16.728	(0.921)	286249	160.000	156	
63	4-Bromophenyl-phenylether	248	17.356	17.335	(0.950)	456917	160.000	156	
62	Hexachlorobenzene	284	17.389	17.369	(0.956)	482806	160.000	150	
83	Pentachlorophenol	266	17.776	17.753	(0.977)	372211	160.000	166	
* 64	Phenanthrene-d10	188	18.184	18.164	(1.000)	823747	40.0000		
65	Phenanthrene	178	18.239	18.219	(1.003)	2017408	160.000	154	
66	Anthracene	178	18.336	18.326	(1.009)	1995947	160.000	160	
67	Carbazole	167	18.657	18.639	(1.026)	1619003	160.000	160	
68	Di-n-butylphthalate	149	19.349	19.351	(1.065)	3585022	160.000	160	
69	Fluoranthene	202	20.628	20.648	(1.136)	2142641	160.000	158	
71	Pyrene	202	21.143	21.132	(1.163)	2190595	160.000	160	
# 72	Terphenyl-d14	244	21.455	21.445	(0.908)	1474154	160.000	164	
75	Butylbenzylphthalate	149	22.459	22.439	(0.950)	1138815	160.000	160(A)	
76	3,3'-Dichlorobenzidine	252	22.549	22.514	(0.954)	727445	160.000	170(A)	

001046

Data File: S2D0725.D
Report Date: 19-Dec-2002 09:26

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	
75	Benzo(a)anthracene	228	23.054	23.583	(0.998)	1861536	160.000	150	
* 78	Chrysene-d12	240	23.639	23.604	(1.000)	380833	40.0000		
77	Chrysene	228	23.681	23.658	(1.002)	1760983	160.000	160(A)	
76	bis(2-Ethylhexyl)phthalate	149	23.854	23.804	(0.999)	1210934	160.000	160	
79	Di-n-octylphthalate	149	24.942	24.921	(0.926)	3786668	160.000	150	
80	Benzo(b)fluoranthene	252	25.345	25.304	(0.964)	3006892	160.000	160(A)	
81	Benzo(k)fluoranthene	252	26.023	25.989	(0.966)	1691165	160.000	150	
82	Benzo(a)pyrene	252	26.489	26.457	(0.984)	1748568	160.000	160(A)	
* 83	Perylene-d12	264	26.928	26.908	(1.000)	382455	40.0000		
84	Indeno(1,2,3-cd)pyrene	276	30.587	30.583	(1.136)	3902228	160.000	170(AM)2	GL 12/19/02
85	Dibenz(a,h)anthracene	278	30.685	30.683	(1.140)	1659534	160.000	160(A)	
86	Benzo(g,h,i)perylene	276	31.732	31.674	(1.178)	1693343	160.000	160(A)	

GL
12/19/02

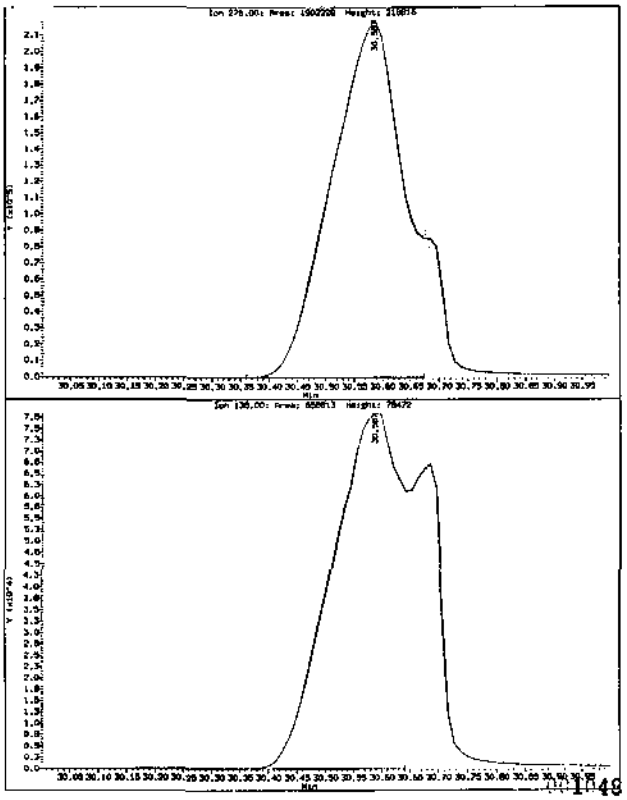
QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

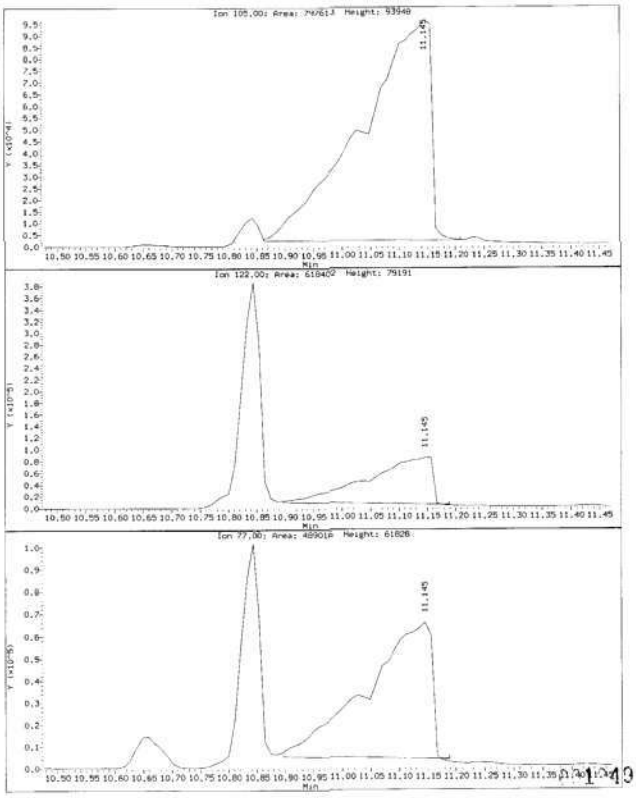
001047

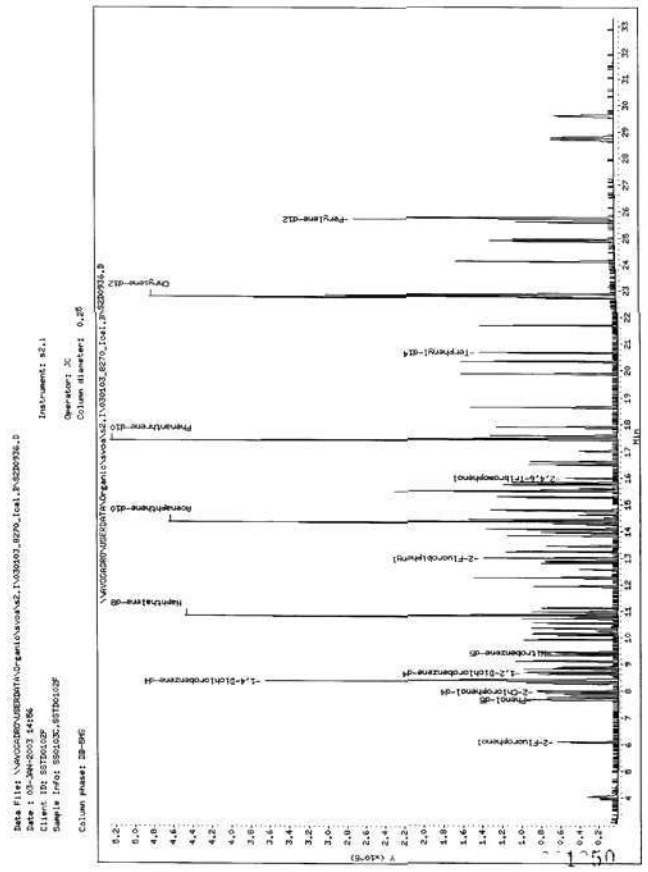
Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021218_8270_Ical.B\S2D0725.D
Injection Date: 19-DEC-2002 01:39
Instrument: s2.i
Client Sample ID: SSTD1602P

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5



001048





Data File: S2D0936.D
Report Date: 04-Jan-2003 13:51

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103_8270_Ical.B\S2D0936
Lab Smp Id: SS0103C Client Smp ID: SSTD0102F
Inj Date : 03-JAN-2003 14:56
Operator : JC Inst ID: s2.i
Smp Info : SS0103C,SSTD0102F
Misc Info : 1,1,SSTD010,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103_8270_Ical.B\s2_8270
Meth Date : 04-Jan-2003 13:46 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 14:56 Cal File: S2D0936.D
Als bottle: 5 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON COL (ng)
	1 N-Nitrosodimethylamine	74	3.962	3.969	(0.472)	22392	10.0000	10
	97 Azobenzene	77	15.826	15.833	(0.909)	71751	10.0000	11
	2 Pyridine	79	4.018	4.018	(0.481)	40352	10.0000	10
$	3 2-Fluorophenol	112	6.089	6.096	(0.726)	39257	10.0000	11
$	5 Phenol-d5	99	7.676	7.683	(0.915)	50102	10.0000	11
	6 Phenol	94	7.697	7.715	(0.918)	58911	10.0000	11
	7 Aniline	93	7.784	7.791	(0.928)	49174	10.0000	12
	8 bis(2-Chloroethyl)Ether	93	7.891	7.899	(0.941)	38915	10.0000	11
$	9 2-Chlorophenol-d4	132	7.967	7.974	(0.950)	40569	10.0000	11
	10 2-Chlorophenol	128	7.989	8.007	(0.952)	35957	10.0000	11
	11 1,3-Dichlorobenzene	146	8.280	8.287	(0.987)	49721	10.0000	11
*	12 1,4-Dichlorobenzene-d4	152	8.388	8.395	(1.000)	101767	40.0000	
	13 1,4-Dichlorobenzene	146	8.420	8.428	(1.004)	62973	10.0000	11
	15 Benzyl Alcohol	108	8.626	8.633	(1.028)	25865	10.0000	10
$	14 1,2-Dichlorobenzene-d4	152	8.669	8.676	(1.033)	24621	10.0000	11
	16 1,2 Dichlorobenzene	146	8.701	8.708	(1.037)	38544	10.0000	11
	17 2-Methylphenol	108	8.820	8.827	(1.051)	35562	10.0000	11
	18 2,2'-oxybis(1-Chloropropane)	45	8.885	8.892	(1.059)	61689	10.0000	11
	20 4-Methylphenol	108	9.101	9.118	(1.085)	38272	10.0000	11
	19 N-Nitroso-di-n-propylamine	70	9.122	9.140	(1.088)	20118	10.0000	11
	21 Hexachloroethane	117	9.338	9.345	(1.113)	15332	10.0000	11
$	22 Nitrobenzene-d5	82	9.414	9.431	(0.869)	36302	10.0000	11
	23 Nitrobenzene	77	9.457	9.464	(0.873)	36941	10.0000	11
	24 Isophorone	82	9.910	9.928	(0.915)	67155	10.0000	11
	25 2-Nitrophenol	139	10.072	10.079	(0.930)	22929	10.0000	10
	26 2,4-Dimethylphenol	107	10.137	10.155	(0.936)	32428	10.0000	11

Data File: S2D0936.D
Report Date: 04-Jan-2003 13:51

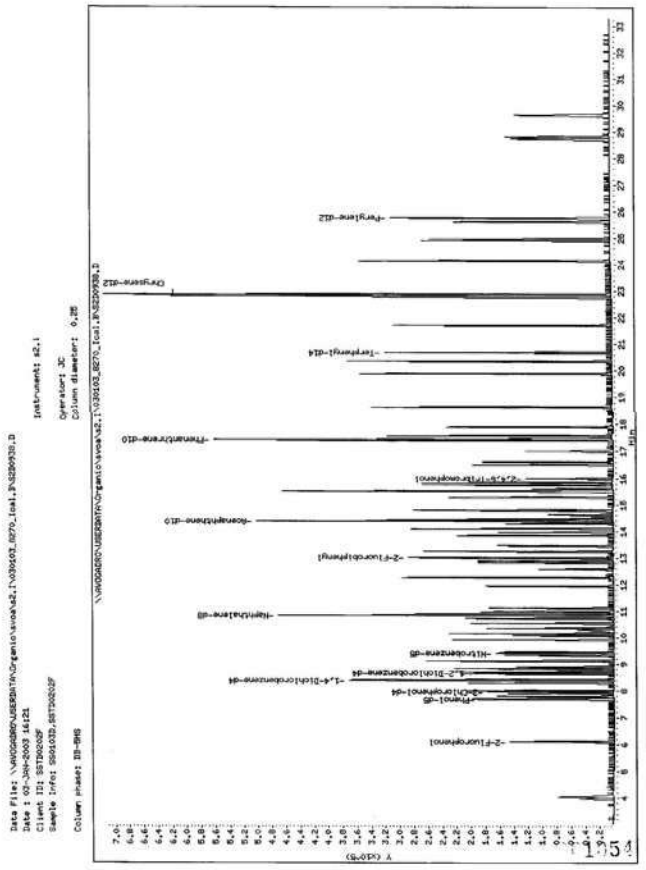
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON COL (ng)
	28 Benzoic Acid	105	10.245	10.327	(0.946)	16638	10.0000	8
	27 bis(2-Chloroethoxy)methane	93	10.342	10.349	(0.955)	44693	10.0000	11
	29 2,4-Dichlorophenol	162	10.534	10.543	(0.973)	25963	10.0000	11
	30 1,2,4 Trichlorobenzene	180	10.709	10.724	(0.989)	32480	10.0000	11
*	31 Naphthalene-d8	136	10.828	10.835	(1.000)	354607	40.0000	
	32 Naphthalene	128	10.871	10.878	(1.004)	107287	10.0000	11
	33 4 Chloroaniline	127	10.968	10.975	(1.013)	43303	10.0000	11
	34 Hexachlorobutadiene	225	11.108	11.116	(1.026)	16627	10.0000	11
	35 4-Chloro-3-Methylphenol	107	11.929	11.936	(1.102)	30392	10.0000	11
	36 2-Methylnaphthalene	142	12.253	12.260	(1.132)	69763	10.0000	11
	38 Hexachlorocyclopentadiene	237	12.566	12.573	(0.875)	10948	10.0000	10
	39 2,4,6-Trichlorophenol	196	12.925	12.621	(0.893)	21129	10.0000	10
	40 2,4,5-Trichlorophenol	196	12.880	12.897	(0.897)	22851	10.0000	11
$	41 2 Fluorobiphenyl	172	12.998	13.005	(0.905)	71566	10.0000	11
	42 2-Chloronaphthalene	162	13.235	13.242	(0.921)	60686	10.0000	11
	43 2-Nitroaniline	65	13.440	13.447	(0.935)	19028	10.0000	10
	44 Dimethylphthalate	163	13.829	13.836	(0.962)	72889	10.0000	11
	45 2,6 Dinitrotoluene	165	13.948	13.955	(0.971)	18667	10.0000	10
	46 Acenaphthylene	152	14.077	14.084	(0.980)	101902	10.0000	11
	47 3-Nitroaniline	138	14.282	14.289	(0.994)	20478	10.0000	10
*	48 Acenaphthene-d10	164	14.369	14.376	(1.000)	188618	40.0000	
	49 Acenaphthene	153	14.433	14.440	(1.004)	69556	10.0000	11
	50 2,4-Dinitrophenol	184	14.498	14.505	(1.009)	4336	10.0000	6
	51 4-Nitrophenol	109	14.617	14.625	(1.017)	6217	10.0000	9
	53 2,4 Dinitrotoluene	165	14.768	14.775	(1.028)	23782	10.0000	11
	52 Dibenzofuran	168	14.750	14.757	(1.029)	88084	10.0000	11
	54 Diethylphthalate	149	15.275	15.293	(1.063)	69677	10.0000	11
	55 Fluorene	166	15.491	15.498	(1.078)	69701	10.0000	12
	56 4-Chlorophenyl-phenylether	204	15.502	15.509	(1.079)	34444	10.0000	12
	57 4-Nitroaniline	138	15.524	15.542	(1.080)	21235	10.0000	11
	58 4,6 Dinitro-2-methylphenol	198	15.588	15.606	(0.895)	11845	10.0000	7
	59 N-Nitrosodiphenylamine	169	15.740	15.747	(0.904)	48084	10.0000	11
$	60 2,4,6-Tribromophenol	330	15.977	15.984	(0.918)	11640	10.0000	10
	61 4-Bromophenyl-phenylether	248	16.495	16.502	(0.947)	20942	10.0000	11
	62 Hexachlorobenzene	284	16.603	16.610	(0.954)	22371	10.0000	11
	63 Pentachlorophenol	266	17.011	17.020	(0.977)	8475	10.0000	7
*	64 Phenanthrene-d10	188	17.413	17.409	(1.000)	323554	40.0000	
	65 Phenanthrene	178	17.456	17.463	(1.002)	96733	10.0000	11
	66 Anthracene	178	17.564	17.571	(1.009)	97032	10.0000	11
	67 Carbazole	167	17.888	17.895	(1.027)	87334	10.0000	12
	68 Di-n-butylphthalate	149	18.633	18.640	(1.070)	126893	10.0000	11
	69 Fluoranthene	202	19.885	19.903	(1.142)	108185	10.0000	11
	71 Pyrene	202	20.349	20.356	(0.892)	111438	10.0000	11
$	72 Terphenyl-d14	244	20.684	20.691	(0.906)	78165	10.0000	11
	73 Butylbenzylphthalate	149	21.698	21.706	(0.951)	53982	10.0000	11
	74 3,3'-Dichlorobenzidine	252	22.746	22.763	(0.997)	38513	10.0000	11
	75 Benzo[a]anthracene	228	22.800	22.807	(0.999)	101394	10.0000	11

Data File: S2D0936.D
Report Date: 04-Jan-2003 13:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	76 Chrysene-d12	240	22.821	22.828	(1.000)	109829	40.0000	
	77 Chrysene	228	22.864	22.882	(1.002)	93878	10.0000	12
	78 bis(2-Ethylhexyl)phthalate	149	22.875	22.882	(1.002)	79185	10.0000	12
	79 Di-n-octylphthalate	149	24.138	24.145	(0.957)	113108	10.0000	10
	80 Benzo(b)fluoranthene	252	24.894	24.912	(0.966)	96955	10.0000	10
	81 Benzo(k)fluoranthene	252	24.959	24.976	(0.969)	86785	10.0000	10
	82 Benzo(a)pyrene	252	25.617	25.635	(0.995)	85370	10.0000	10
*	83 Perylene-d12	264	25.757	25.754	(1.000)	165099	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	28.705	28.744	(1.114)	87477	10.0000	10
	85 Dibenzo(a,h)anthracene	278	28.769	28.809	(1.117)	83030	10.0000	10
	86 Benzo(g,h,i)perylene	276	29.601	29.651	(1.149)	83608	10.0000	11

JC
1-7-03

001053



1056

Data File: S2D0938.D
Report Date: 04-Jan-2003 13:50

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103_8270_Ical.B\S2D0938
Lab Smp Id: SS0103D Client Smp ID: SSTD0202F
Inj Date : 03-JAN-2003 16:21
Operator : JC Inst ID: s2.i
Smp Info : SS0103D,SSTD0202F
Misc Info : 1,2,SSTD020,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103_8270_Ical.B\s2_8270
Meth Date : 04-Jan-2003 13:46 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 16:21 Cal File: S2D0938.D
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	1 N-Nitrosodimethylamine	74	3.979	3.969	(0.473)	51482	20.0000	21
	57 Azobenzene	77	15.832	15.833	(0.909)	162989	20.0000	22
	2 Pyridine	79	4.044	4.034	(0.481)	95016	20.0000	21
$	3 2-Fluorophenol	112	6.106	6.096	(0.726)	88927	20.0000	22
$	5 Phenol-d5	99	7.692	7.683	(0.915)	110737	20.0000	21
	6 Phenol	94	7.714	7.715	(0.918)	114262	20.0000	21
	7 Aniline	93	7.790	7.791	(0.927)	106441	20.0000	23
	8 bis(2-Chloroethyl)Ether	93	7.908	7.899	(0.941)	87428	20.0000	22
$	9 2-Chlorophenol-d4	132	7.973	7.974	(0.949)	91810	20.0000	22
	10 2-Chlorophenol	128	8.006	8.007	(0.952)	88025	20.0000	21
	11 1,3 Dichlorobenzene	146	8.297	8.287	(0.987)	90423	20.0000	22
*	12 1,4-Dichlorobenzene-d4	152	8.405	8.395	(1.000)	113989	40.0000	
	13 1,4-Dichlorobenzene	146	8.427	8.428	(1.003)	95103	20.0000	22
	15 Benzyl Alcohol	108	8.632	8.633	(1.027)	58690	20.0000	21
$	14 1,2-Dichlorobenzene-d4	152	8.686	8.676	(1.033)	54715	20.0000	22
	16 1,2-Dichlorobenzene	146	8.707	8.708	(1.036)	93355	20.0000	22
	17 2-Methylphenol	108	8.826	8.827	(1.050)	77104	20.0000	22
	18 2,2'-oxybis(1-Chloropropane)	45	8.891	8.892	(1.058)	136278	20.0000	21
	20 4-Methylphenol	108	9.117	9.118	(1.085)	84750	20.0000	22
	19 N-Nitroso-di-n-propylamine	70	9.139	9.140	(1.087)	84007	20.0000	21
	21 Hexachloroethane	117	9.344	9.345	(1.112)	36678	20.0000	22
$	22 Nitrobenzene-d5	82	9.431	9.431	(0.870)	81464	20.0000	21
	23 Nitrobenzene	77	9.463	9.464	(0.873)	82133	20.0000	21
	24 Isophorone	82	9.927	9.928	(0.916)	148234	20.0000	21
	25 2-Nitrophenol	139	10.078	10.079	(0.930)	51175	20.0000	21
	26 2,4-Dimethylphenol	107	10.154	10.155	(0.937)	70600	20.0000	21

1055

Data File: S2D0938.D
Report Date: 04-Jan-2003 13:50

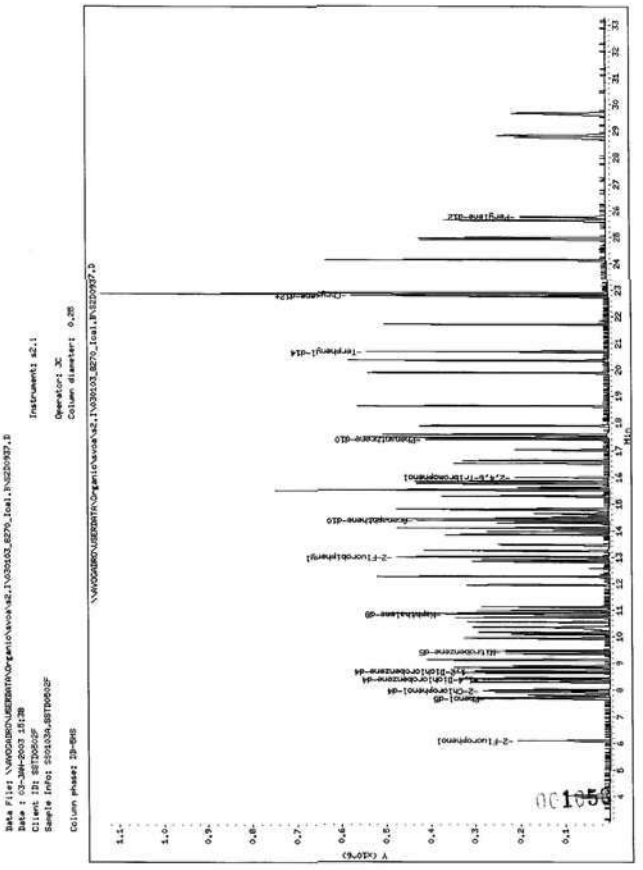
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	28 Benzoic Acid	105	10.294	10.327	(0.950)	43153	20.0000	19
	27 bis(2-Chloroethoxy)methane	93	10.348	10.349	(0.955)	100043	20.0000	22
	29 2,4-Dichlorophenol	162	10.542	10.543	(0.973)	67620	20.0000	21
	30 1,2,4-Trichlorobenzene	180	10.726	10.716	(0.990)	72208	20.0000	22
*	31 Naphthalene-d8	136	10.834	10.835	(1.000)	400641	40.0000	
	32 Naphthalene	128	10.877	10.878	(1.004)	338417	20.0000	22
	33 4-Chloroaniline	127	10.974	10.975	(1.013)	98862	20.0000	22
	34 Hexachlorobutadiene	225	11.125	11.116	(1.027)	36614	20.0000	22
	35 4-Chloro-3-Methylphenol	107	11.946	11.936	(1.103)	69269	20.0000	22
	36 2-Methylnaphthalene	142	12.270	12.260	(1.133)	156106	20.0000	22
	38 Hexachlorocyclopentadiene	237	12.583	12.573	(0.875)	39561	20.0000	22
	39 2,4,6-Trichlorophenol	196	12.831	12.821	(0.892)	47987	20.0000	21
	40 2,4,5-Trichlorophenol	196	12.896	12.897	(0.896)	51067	20.0000	21
$	41 2-Fluorobiphenyl	172	13.015	13.005	(0.905)	160407	20.0000	22
	42 2-Chloronaphthalene	162	13.252	13.242	(0.921)	136343	20.0000	22
	43 2-Nitroaniline	65	13.457	13.447	(0.935)	44279	20.0000	21
	44 Dimethylphthalate	163	13.835	13.836	(0.962)	164268	20.0000	21
	45 2,6-Dinitrotoluene	165	13.964	13.955	(0.971)	44018	20.0000	21
	46 Acenaphthylene	152	14.094	14.084	(0.980)	226172	20.0000	22
	47 3-Nitroaniline	138	14.288	14.289	(0.993)	47773	20.0000	21
*	48 Acenaphthene-d10	164	14.386	14.376	(1.000)	216403	40.0000	
	49 Acenaphthene	153	14.450	14.440	(1.004)	139904	20.0000	22
	50 2,4-Dinitrophenol	184	14.504	14.505	(1.008)	18672	20.0000	15
	51 4-Nitrophenol	109	14.634	14.635	(1.017)	15473	20.0000	19
	53 2,4-Dinitrotoluene	165	14.774	14.775	(1.027)	54995	20.0000	21
	52 Dibenzofuran	168	14.796	14.797	(1.029)	200083	20.0000	22
	54 Diethylphthalate	149	15.292	15.293	(1.063)	159145	20.0000	21
	55 Fluorene	166	15.497	15.498	(1.077)	156788	20.0000	23
	56 4-Chlorophenyl-phenylether	204	15.508	15.509	(1.078)	77701	20.0000	23
	57 4-Nitroaniline	138	15.541	15.542	(1.080)	47240	20.0000	21
	58 4,6-Dinitro-2-methylphenol	198	15.605	15.606	(0.896)	34585	20.0000	18
	59 N-Nitrosodiphenylamine	169	15.746	15.747	(0.904)	109598	20.0000	22
$	60 2,4,6-Tribromophenol	330	15.983	15.984	(0.918)	27099	20.0000	21
	61 4-Bromophenyl-phenylether	248	16.512	16.502	(0.948)	46818	20.0000	22
	62 Hexachlorobenzene	284	16.620	16.630	(0.954)	51059	20.0000	22
	63 Pentachlorophenol	266	17.020	17.020	(0.977)	25229	20.0000	17
*	64 Phenanthrene-d10	188	17.419	17.409	(1.000)	371340	40.0000	
	65 Phenanthrene	178	17.462	17.463	(1.002)	217268	20.0000	22
	66 Anthracene	178	17.570	17.571	(1.009)	216671	20.0000	22
	67 Carbazole	167	17.905	17.895	(1.028)	185813	20.0000	22
	68 Di-n-butylphthalate	149	18.639	18.640	(1.070)	292818	20.0000	22
	69 Fluoranthene	202	19.891	19.903	(1.142)	244151	20.0000	22
	71 Pyrene	202	20.355	20.356	(0.892)	252053	20.0000	22
$	72 Terphenyl-d14	244	20.690	20.691	(0.906)	173869	20.0000	22
	73 Butylbenzylphthalate	149	21.705	21.706	(0.951)	121583	20.0000	21
	74 3,3'-Dichlorobenzidine	252	22.752	22.763	(0.997)	85177	20.0000	23
	75 Benzo(a)anthracene	228	22.806	22.807	(0.999)	224503	20.0000	22

001050

Data File: S2D0938.D
Report Date: 04-Jan-2003 13:50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 76 Chrysene-d12	240	22.827	22.828	(1.000)	347445	40.0000	
77 Chrysene	228	22.881	22.882	(1.002)	204239	20.0000	22
78 bis(2-Ethylhexyl)phthalate	149	22.881	22.882	(1.002)	173887	20.0000	23
79 Di-n-octylphthalate	149	24.146	24.145	(0.937)	306787	20.0000	30
80 Benzo(b)fluoranthene	252	24.911	24.912	(0.967)	212036	20.0000	19
81 Benzo(k)fluoranthene	252	24.965	24.976	(0.969)	200834	20.0000	22
82 Benzo(a)pyrene	252	25.623	25.635	(0.995)	189994	20.0000	20
* 83 Perylene-d12	264	25.764	25.754	(1.000)	208573	40.0000	
84 Indeno(1,2,3-cd)pyrene	276	28.721	28.744	(1.115)	207180	20.0000	21
85 Dibenzo(a,h)anthracene	278	28.797	28.809	(1.118)	189429	20.0000	21
86 Benzo(g,h,i)perylene	276	29.628	29.651	(1.150)	190464	20.0000	22

JC
1-7-03



Data File: S2D0937.D
Report Date: 04-Jan-2003 13:51

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103_8270_Ical.B\S2D0937
Lab Smp Id: SS0103A Client Smp ID: SSTD0502F
Inj Date : 03-JAN-2003 15:38
Operator : JC Inst ID: s2.i
Smp Info : SS0103A,SSTD0502F
Misc Info : 2,3,SSTD050,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103_8270_Ical.B\s2_8270
Meth Date : 04-Jan-2003 13:46 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 16:21 Cal File: S2D0938.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
1 N-Nitrosodimethylamine	74	3.969	3.969	(0.473)	76248	50.0000	46
97 Azobenzene	77	15.833	15.833	(0.909)	266552	50.0000	46
2 Pyridine	79	4.034	4.034	(0.481)	122576	50.0000	42
$ 3 2-Fluorophenol	112	6.096	6.096	(0.726)	121661	50.0000	44
$ 5 Phenol-d5	99	7.683	7.683	(0.915)	171138	50.0000	49
6 Phenol	94	7.715	7.715	(0.919)	177515	50.0000	50
7 Aniline	93	7.791	7.791	(0.928)	123011	50.0000	40
8 bis(2-Chloroethyl)Ether	93	7.899	7.899	(0.941)	134165	50.0000	50
$ 9 2-Chlorophenol-d4	132	7.974	7.974	(0.950)	136452	50.0000	48
10 2-Chlorophenol	128	8.007	8.007	(0.954)	133793	50.0000	48
11 1,3-Dichlorobenzene	146	8.287	8.287	(0.987)	127656	50.0000	47
* 12 1,4-Dichlorobenzene-d4	152	8.395	8.395	(1.000)	76193	40.0000	
13 1,4-Dichlorobenzene	146	8.428	8.428	(1.004)	134217	50.0000	47
15 Benzyl Alcohol	108	8.633	8.633	(1.028)	91614	50.0000	50
$ 14 1,2-Dichlorobenzene-d4	152	8.676	8.676	(1.033)	79273	50.0000	48
16 1,2-Dichlorobenzene	146	8.708	8.708	(1.037)	125032	50.0000	49
17 2-Methylphenol	108	8.827	8.827	(1.051)	117702	50.0000	49
18 2,2'-oxybis(1-Chloropropane)	45	8.892	8.892	(1.059)	214709	50.0000	50
20 4-Methylphenol	108	9.118	9.118	(1.086)	130761	50.0000	50
19 N-Nitroso-di-n-propylamine	70	9.140	9.140	(1.089)	70426	50.0000	50
21 Hexachloroethane	117	9.345	9.345	(1.113)	49703	50.0000	48
$ 22 Nitrobenzene-d5	82	9.431	9.431	(0.870)	129568	50.0000	46
23 Nitrobenzene	77	9.464	9.464	(0.873)	130896	50.0000	46
24 Isophorone	82	9.928	9.928	(0.916)	236866	50.0000	46
25 2-Nitrophenol	139	10.079	10.079	(0.930)	80366	50.0000	45
26 2,4-Dimethylphenol	107	10.155	10.155	(0.937)	101018	50.0000	41

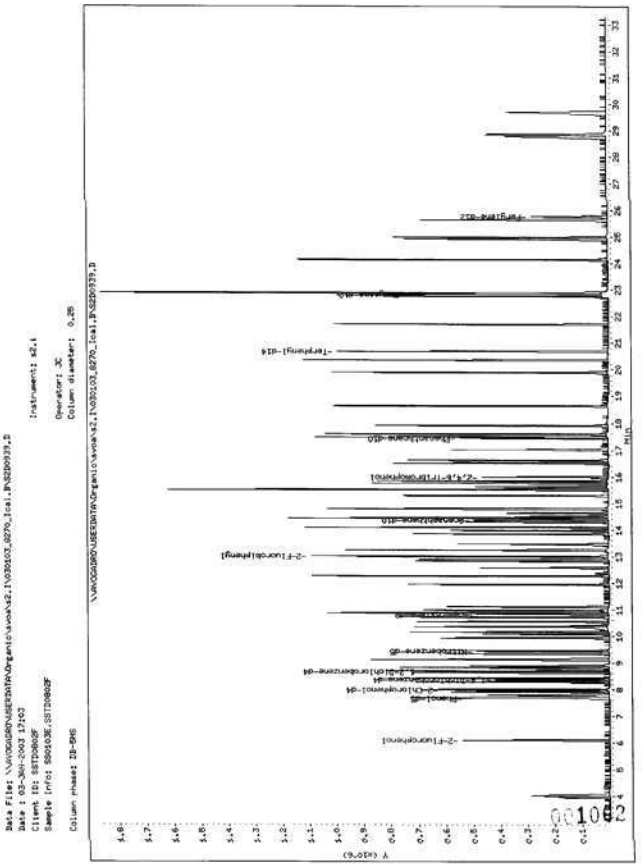
Data File: S2D0937.D
Report Date: 04-Jan-2003 13:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
28 Benzoic Acid	105	10.327	10.327	(0.953)	76757	50.0000	47
27 bis(2-Chloroethoxy)methane	93	10.349	10.349	(0.955)	156018	50.0000	47
29 2,4-Dichlorophenol	162	10.543	10.543	(0.973)	105638	50.0000	46
30 1,2,4-Trichlorobenzene	180	10.716	10.716	(0.989)	110488	50.0000	46
* 31 Naphthalene-d8	136	10.835	10.835	(1.000)	291328	40.0000	
32 Naphthalene	128	10.878	10.878	(1.004)	369469	50.0000	47
33 4-Chloroaniline	127	10.975	10.975	(1.013)	141214	50.0000	44
34 Hexachlorobutadiene	225	11.116	11.116	(1.026)	55349	50.0000	45
35 4-Chloro-3-Methylphenol	107	11.936	11.936	(1.102)	111158	50.0000	48
36 2-Methylnaphthalene	142	12.260	12.260	(1.132)	247341	50.0000	48
38 Hexachlorocyclopentadiene	237	12.573	12.573	(0.875)	11363	50.0000	11
39 2,4,6-Trichlorophenol	196	12.821	12.821	(0.892)	78969	50.0000	45
40 2,4,5-Trichlorophenol	196	12.897	12.897	(0.897)	85259	50.0000	46
$ 41 2-Fluorobiphenyl	172	13.005	13.005	(0.905)	255483	50.0000	46
42 2-Chloronaphthalene	162	13.242	13.242	(0.921)	218466	50.0000	46
43 2-Nitroaniline	65	13.447	13.447	(0.935)	73133	50.0000	46
44 Dimethylphthalate	163	13.836	13.836	(0.962)	271578	50.0000	46
45 2,6-Dinitrotoluene	165	13.955	13.955	(0.971)	73897	50.0000	46
46 Acenaphthylene	152	14.084	14.084	(0.980)	356865	50.0000	45
47 3-Nitroaniline	138	14.289	14.289	(0.994)	80137	50.0000	46
* 48 Acenaphthene-d10	164	14.376	14.376	(1.000)	163755	40.0000	
49 Acenaphthene	153	14.440	14.440	(1.004)	227057	50.0000	47
50 2,4-Dinitrophenol	184	14.509	14.505	(1.009)	38337	50.0000	40
51 4-Nitrophenol	109	14.635	14.635	(1.018)	28254	50.0000	46
53 2,4-Dinitrotoluene	165	14.775	14.775	(1.028)	92659	50.0000	48
52 Dibensofuran	168	14.797	14.797	(1.029)	327604	50.0000	48
54 Diethylphthalate	149	15.293	15.293	(1.064)	268064	50.0000	47
55 Fluorene	166	15.498	15.498	(1.078)	259283	50.0000	49
56 4-Chlorophenyl-phenylether	204	15.509	15.509	(1.079)	126238	50.0000	49
57 4-Nitroaniline	138	15.542	15.542	(1.081)	78873	50.0000	46
58 4,6-Dinitro-2-methylphenol	198	15.606	15.606	(0.896)	63261	50.0000	43
59 N-Nitrosodiphenylamine	169	15.747	15.747	(0.905)	181467	50.0000	45
$ 60 2,4,6-Tribromophenol	330	15.984	15.984	(0.918)	45641	50.0000	46
61 4-Bromophenyl-phenylether	248	16.502	16.502	(0.948)	78097	50.0000	46
62 Hexachlorobenzene	284	16.619	16.619	(0.954)	83237	50.0000	46
63 Pentachlorophenol	266	17.029	17.029	(0.978)	49313	50.0000	43
* 64 Phenanthrene-d10	188	17.409	17.409	(1.000)	290821	40.0000	
65 Phenanthrene	178	17.463	17.463	(1.003)	366645	50.0000	47
66 Anthracene	178	17.575	17.571	(1.009)	347978	50.0000	46
67 Carbazole	167	17.895	17.895	(1.028)	325839	50.0000	49
68 Di-n-butylphthalate	149	18.640	18.640	(1.071)	473385	50.0000	47
69 Fluoranthene	202	19.903	19.903	(1.143)	407942	50.0000	47
71 Pyrene	202	20.356	20.356	(0.892)	415494	50.0000	45
$ 72 Terphenyl-d14	244	20.691	20.691	(0.906)	290856	50.0000	45
73 Butylbenzylphthalate	149	21.706	21.706	(0.951)	203579	50.0000	45
74 3,3'-Dichlorobenzidine	252	22.763	22.763	(0.997)	126401	50.0000	42
75 Benzo(a)anthracene	228	22.809	22.807	(0.999)	372592	50.0000	45

Data File: S2D0937.D
Report Date: 04-Jan-2003 13:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 76 Chrysene-d12	240	22.828	22.828	(1.000)	375872	40.0000	
77 Chrysene	228	22.882	22.882	(1.002)	337279	50.0000	46
78 bis(2-Ethylhexyl)phthalate	149	22.882	22.882	(1.002)	284632	50.0000	47
79 Di-n-octylphthalate	149	24.145	24.145	(0.938)	509976	50.0000	52
80 Benzo(b)fluoranthene	252	24.913	24.913	(0.967)	360972	50.0000	51
81 Benzo(k)fluoranthene	252	24.976	24.976	(0.970)	318569	50.0000	54
82 Benzo(a)pyrene	252	25.635	25.635	(0.995)	302405	50.0000	51
* 83 Pxtylene-d11	244	25.754	25.754	(1.000)	1132631	40.0000	
84 Indeno(1,2,3-cd)pyrene	276	28.744	28.744	(1.116)	326166	50.0000	52
85 Dibenzo(a,h)anthracene	278	28.809	28.809	(1.119)	308136	50.0000	54
86 Benzo(g,h,i)perylene	276	29.651	29.651	(1.151)	299659	50.0000	54

JC
1-7-03



Data File: S2D0939.D
Report Date: 04-Jan-2003 13:51

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103_8270_Ical.B\S2D0939
Lab Smp Id: SS0103E Client Smp ID: SSTD0802F
Inj Date : 03-JAN-2003 17:03
Operator : JC Inst ID: s2.i
Smp Info : SS0103E,SSTD0802F
Misc Info : 1,4,SSTD080,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103_8270_Ical.B\s2_8270
Meth Date : 04-Jan-2003 13:46 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:03 Cal File: S2D0939.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	1 N Nitrosodimethylamine	74	3.971	3.969	(0.473)	205273	80.0000	81
	97 Azobenzene	77	15.846	15.833	(0.910)	588355	80.0000	80
	2 Pyridine	79	4.034	4.034	(0.481)	386633	80.0000	85
$	3 2-Fluorophenol	112	6.159	6.096	(0.727)	350013	80.0000	83
$	5 Phenol d5	99	7.696	7.683	(0.916)	424247	80.0000	79
	6 Phenol	94	7.728	7.715	(0.920)	423318	80.0000	79
	7 Aniline	93	7.803	7.791	(0.929)	381910	80.0000	80
	8 bis(2-Chloroethyl)Ether	93	7.911	7.899	(0.942)	322285	80.0000	78
$	9 2-Chlorophenol d4	132	7.987	7.974	(0.951)	344600	80.0000	79
	10 2-Chlorophenol	128	8.009	8.007	(0.954)	336013	80.0000	79
	11 1,3-Dichlorobenzene	146	8.300	8.287	(0.988)	335039	80.0000	80
*	12 1,4-Dichlorobenzene-d4	152	8.397	8.395	(1.000)	116968	40.0000	
	13 1,4-Dichlorobenzene	146	8.430	8.428	(1.004)	348558	80.0000	80
	15 Benzyl Alcohol	108	8.646	8.633	(1.030)	325274	80.0000	79
$	14 1,2-Dichlorobenzene-d4	152	8.689	8.676	(1.035)	200189	80.0000	80
	16 1,2-Dichlorobenzene	146	8.710	8.708	(1.037)	313080	80.0000	80
	17 2-Methylphenol	108	8.840	8.827	(1.053)	289406	80.0000	79
	18 2,2'-oxybis(1-Chloropropane)	45	8.905	8.892	(1.060)	515408	80.0000	79
	20 4-Methylphenol	108	9.131	9.118	(1.087)	316868	80.0000	79
	19 N-Nitroso-di-n-propylamine	70	9.153	9.140	(1.090)	170785	80.0000	78
	21 Hexachloroethane	117	9.347	9.345	(1.113)	129051	80.0000	81
$	22 Nitrobenzene-d5	82	9.444	9.431	(0.871)	310098	80.0000	80
	23 Nitrobenzene	77	9.477	9.464	(0.874)	310897	80.0000	80
	24 Isophorone	82	9.941	9.928	(0.917)	557188	80.0000	79
	25 2 Nitrophenol	139	10.092	10.079	(0.931)	194399	80.0000	80
	26 2,4-Dimethylphenol	107	10.168	10.155	(0.938)	274055	80.0000	80

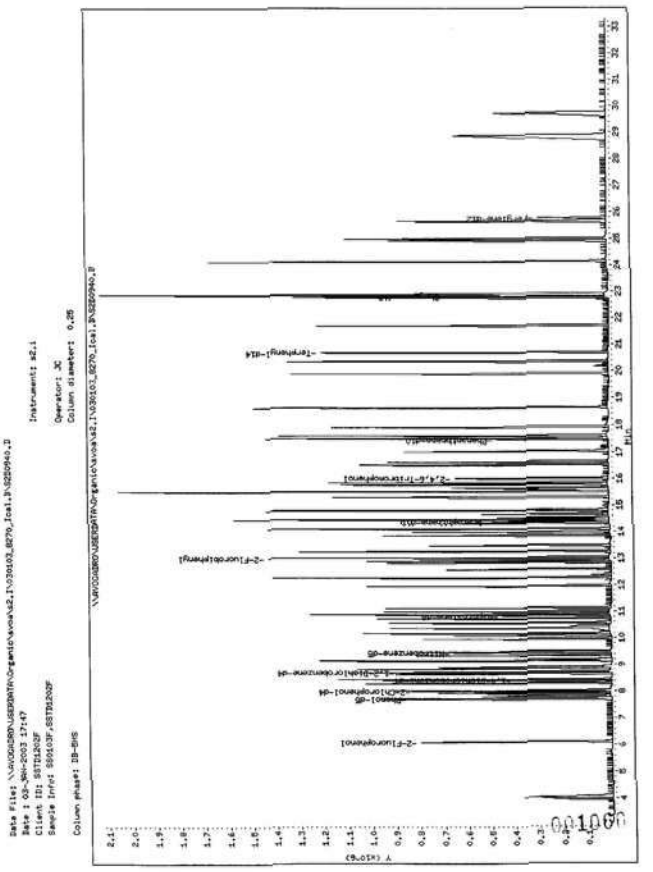
Data File: S2D0939.D
Report Date: 04-Jan-2003 13:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	28 Benzoic Acid	105	10.405	10.127	(0.960)	149774	80.0000	89
	27 bis(2-Chloroethoxy)methane	93	10.362	10.349	(0.956)	361831	80.0000	79
	29 2,4-Dichlorophenol	162	10.556	10.543	(0.974)	256957	80.0000	81
	30 1,2,4-Trichlorobenzene	180	10.729	10.716	(0.990)	265931	80.0000	80
*	31 Naphthalene-d8	136	10.837	10.815	(1.000)	401936	40.0000	
	32 Naphthalene	128	10.880	10.878	(1.004)	855884	80.0000	79
	33 4-Chloroaniline	127	10.988	10.975	(1.014)	352890	80.0000	80
	34 Hexachlorobutadiene	225	11.128	11.116	(1.027)	135136	80.0000	80
	35 4-Chloro-3-Methylphenol	107	11.949	11.936	(1.103)	255093	80.0000	79
	36 2-Methylnaphthalene	142	12.273	12.260	(1.132)	565461	80.0000	79
	38 Hexachlorocyclopentadiene	237	12.575	12.571	(0.875)	133349	80.0000	100
	39 2,4,6-Trichlorophenol	196	12.834	12.821	(0.893)	184290	80.0000	80
	40 2,4,5-Trichlorophenol	196	12.899	12.897	(0.897)	202401	80.0000	82
$	41 2-Fluorobiphenyl	172	13.018	13.005	(0.905)	581806	80.0000	80
	42 2 Chloronaphthalene	162	13.255	13.242	(0.922)	502254	80.0000	80
	43 2-Nitroaniline	65	13.471	13.447	(0.937)	168061	80.0000	80
	44 Dimethylphthalate	163	13.849	13.836	(0.963)	622040	80.0000	80
	45 2,6-Dinitrotoluene	165	13.978	13.955	(0.972)	168423	80.0000	80
	46 Acenaphthylene	152	14.097	14.084	(0.980)	840271	80.0000	80
	47 3-Nitroaniline	138	14.313	14.289	(0.995)	184516	80.0000	80
*	48 Acenaphthene-d10	164	14.378	14.376	(1.000)	217106	40.0000	
	49 Acenaphthene	153	14.453	14.440	(1.005)	508852	80.0000	79
	50 2,4-Dinitrophenol	184	14.518	14.505	(1.010)	109304	80.0000	87
	51 4-Nitrophenol	109	14.648	14.635	(1.019)	66329	80.0000	81
	53 2,4-Dinitrotoluene	165	14.788	14.775	(1.029)	209186	80.0000	81
	52 Dibenzofuran	168	14.810	14.797	(1.030)	725908	80.0000	80
	54 Diethylphthalate	149	15.306	15.293	(1.065)	607590	80.0000	81
	55 Fluorene	166	15.511	15.498	(1.079)	537602	80.0000	79
	56 4 Chlorophenyl-phenylether	204	15.531	15.509	(1.079)	274412	80.0000	80
	57 4-Nitroaniline	138	15.576	15.562	(1.083)	180428	80.0000	80
	58 4,6-Dinitro-2-methylphenol	198	15.630	15.606	(0.897)	158063	80.0000	84
	59 N-Nitrosodiphenylamine	169	15.759	15.747	(0.905)	415932	80.0000	82
$	60 2,4,6-Tribromophenol	330	15.997	15.984	(0.918)	104680	80.0000	82
	61 4-Bromophenyl-phenylether	248	16.515	16.502	(0.948)	176007	80.0000	81
	62 Hexachlorobenzene	284	16.623	16.610	(0.954)	189128	80.0000	82
	63 Pentachlorophenol	266	17.023	17.020	(0.977)	125220	80.0000	86
*	64 Phenanthrene-d10	188	17.422	17.409	(1.000)	371537	40.0000	
	65 Phenanthrene	178	17.476	17.463	(1.003)	794464	80.0000	80
	66 Anthracene	178	17.584	17.571	(1.009)	786937	80.0000	81
	67 Carbazole	167	17.908	17.895	(1.028)	664086	80.0000	78
	68 Di-n-Butylphthalate	149	18.653	18.640	(1.071)	1043917	80.0000	81
	69 Fluoranthene	202	19.905	19.903	(1.143)	887451	80.0000	80
	71 Pyrene	202	20.369	20.356	(0.892)	907936	80.0000	80
$	72 Terphenyl-d14	244	20.704	20.691	(0.906)	624636	80.0000	80
	73 Butylbenzylphthalate	149	21.718	21.706	(0.951)	445549	80.0000	80
	74 3,3'-Dichlorobenzidine	252	22.776	22.763	(0.997)	394406	80.0000	80
	75 Benzo(a)anthracene	228	22.820	22.807	(0.999)	810120	80.0000	80

Data File: S2D0939.D
Report Date: 04-Jan-2003 13:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
* 76 Chrysene-d12	240	22.841	22.828	(1.000)	338158	40.0000	
77 Chrysene	228	22.895	22.882	(1.002)	700246	80.0000	79
78 bis(2-Ethylhexyl)phthalate	149	22.895	22.882	(1.002)	590129	80.0000	79
79 Di-n-octylphthalate	149	24.158	24.145	(0.938)	1094109	80.0000	77
80 Benzo(b)fluoranthene	252	24.935	24.912	(0.968)	761134	80.0000	74
81 Benzo(k)fluoranthene	252	25.000	24.976	(0.970)	674248	80.0000	78
82 Benzo(e)pyrene	252	25.659	25.635	(0.996)	667251	80.0000	78
* 83 Perylene-d12	264	25.767	25.754	(1.000)	193385	40.0000	
84 Indeno(1,2,3-cd)pyrene	276	28.768	28.744	(1.116)	704867	80.0000	77
85 Dibenzo(a,h)anthracene	278	28.843	28.809	(1.119)	639401	80.0000	77
86 Benzo(g,h,i)perylene	276	29.696	29.651	(1.153)	625158	80.0000	77

JC
1-7-03



Data File: S2D0940.D
Report Date: 04-Jan-2003 13:51

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103_8270_Ical.B\S2D0940
Lab Smp Id: SS0103F Client Smp ID: SSTD1202F
Inj Date : 03-JAN-2003 17:47
Operator : JC Inst ID: s2.i
Smp Info : SS0103F,SSTD1202F
Misc Info : 1,5,SSTD120,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103_8270_Ical.B\s2_8270
Meth Date : 04-Jan-2003 13:46 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
1 N-Nitrosodimethylamine	74	3.983	3.969	(0.474)	294374	120.000	120
97 Azobenzene	77	15.857	15.833	(0.910)	845581	120.000	120
2 Pyridine	79	4.037	4.034	(0.480)	544203	120.000	130
$ 3 2-Fluorophenol	112	6.109	6.096	(0.727)	481107	120.000	120
$ 5 Phenol-d5	99	7.718	7.683	(0.918)	605591	120.000	120
6 Phenol	94	7.739	7.715	(0.920)	613865	120.000	120
7 Aniline	93	7.804	7.791	(0.928)	540884	120.000	120
8 bis(2-Chloroethyl)Ether	93	7.923	7.899	(0.942)	457137	120.000	120
$ 9 2-Chlorophenol-d4	132	7.998	7.974	(0.951)	491319	120.000	120
10 2-Chlorophenol	128	8.020	8.007	(0.954)	475901	120.000	120
11 1,3-Dichlorobenzene	146	8.301	8.287	(0.987)	467219	120.000	120
* 12 1,4-Dichlorobenzene-d4	152	8.409	8.395	(1.000)	109786	40.0000	
13 1,4-Dichlorobenzene	146	8.441	8.426	(1.004)	480919	120.000	120
15 Benzyl Alcohol	108	8.657	8.633	(1.030)	317322	120.000	120
$ 14 1,2-Dichlorobenzene-d4	152	8.689	8.676	(1.033)	278255	120.000	120
16 1,2-Dichlorobenzene	146	8.722	8.708	(1.037)	431343	120.000	120
17 2-Methylphenol	108	8.851	8.827	(1.053)	406402	120.000	120
18 2,2'-oxybis(1-Chloropropane)	45	8.916	8.892	(1.060)	725932	120.000	120
20 4-Methylphenol	108	9.154	9.118	(1.089)	448277	120.000	120
19 N-Nitroso-di-n-propylamine	70	9.175	9.140	(1.091)	245260	120.000	120
21 Hexachloroethane	117	9.359	9.345	(1.113)	179565	120.000	120
$ 22 Nitrobenzene-d5	82	9.456	9.431	(0.872)	442730	120.000	120
23 Nitrobenzene	77	9.499	9.464	(0.876)	437518	120.000	120
24 Isophorone	82	9.963	9.928	(0.918)	782671	120.000	120
25 2-Nitrophenol	139	10.104	10.079	(0.931)	283880	120.000	120
26 2,4-Dimethylphenol	107	10.179	10.155	(0.938)	401459	120.000	130

Data File: S2D0940.D
Report Date: 04-Jan-2003 13:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
28 Benzoic Acid	105	10.460	10.327	(0.964)	307397	120.000	150
27 bis(2-Chloroethoxy)methane	93	10.373	10.349	(0.956)	514303	120.000	120
29 2,4-Dichlorophenol	162	10.568	10.543	(0.974)	365677	120.000	120
30 1,2,4 Trichlorobenzene	180	10.741	10.716	(0.990)	368056	120.000	120
* 31 Naphthalene-d8	136	10.868	10.835	(1.000)	376098	40.0000	
32 Naphthalene	128	10.892	10.878	(1.004)	1200280	120.000	120
33 4-Chloroaniline	127	11.000	10.975	(1.014)	503565	120.000	120
34 Hexachlorobutadiene	225	11.129	11.116	(1.026)	187960	120.000	120
35 4-Chloro-3-Methylphenol	107	11.960	11.936	(1.102)	367015	120.000	120
36 2-Methylnaphthalene	142	12.284	12.260	(1.132)	793153	120.000	120
38 Hexachlorocyclopentadiene	237	12.596	12.573	(0.875)	190472	120.000	150
39 2,4,6-Trichlorophenol	196	12.846	12.821	(0.893)	266452	120.000	120
40 2,4,5-Trichlorophenol	196	12.910	12.897	(0.897)	291797	120.000	110
$ 41 2-Fluorobiphenyl	172	13.029	13.005	(0.905)	814092	120.000	120
42 2-Chloronaphthalene	162	13.267	13.242	(0.922)	707220	120.000	120
43 2-Nitroaniline	65	13.482	13.447	(0.937)	242969	120.000	120
44 Dimethylphthalate	163	13.871	13.836	(0.964)	887388	120.000	120
45 2,6-Dinitrotoluene	165	13.990	13.955	(0.972)	244482	120.000	120
46 Acenaphthylene	152	14.109	14.084	(0.980)	1171863	120.000	120
47 3-Nitroaniline	138	14.335	14.289	(0.996)	268579	120.000	120
* 48 Acenaphthene-d10	164	14.389	14.376	(1.000)	203797	40.0000	
49 Acenaphthene	153	14.465	14.440	(1.005)	719303	120.000	120
50 2,4-Dinitrophenol	184	14.540	14.505	(1.011)	167074	120.000	140
51 4-Nitrophenol	109	14.670	14.635	(1.020)	98938	120.000	130
53 2,4-Dinitrotoluene	165	14.810	14.775	(1.029)	292331	120.000	120
52 Dibenzofuran	168	14.821	14.797	(1.030)	1005168	120.000	120
54 Diethylphthalate	149	15.318	15.293	(1.065)	861411	120.000	120
55 Fluorene	166	15.523	15.498	(1.079)	722680	120.000	110
56 4-Chlorophenyl-phenylether	204	15.523	15.509	(1.079)	371159	120.000	120
57 4-Nitroaniline	138	15.598	15.562	(1.084)	262078	120.000	120
58 4,6-Dinitro-2-methylphenol	198	15.652	15.606	(0.898)	231619	120.000	130
59 N-Nitrosodiphenylamine	169	15.782	15.747	(0.906)	579974	120.000	120
$ 60 2,4,6-Tribromophenol	330	16.009	15.984	(0.919)	146258	120.000	120
61 4-Bromophenyl-phenylether	248	16.527	16.502	(0.949)	245767	120.000	120
62 Hexachlorobenzene	284	16.635	16.610	(0.955)	259198	120.000	120
63 Pentachlorophenol	266	17.034	17.020	(0.978)	182719	120.000	130
* 64 Phenanthrene-d10	188	17.423	17.409	(1.000)	353843	40.0000	
65 Phenanthrene	178	17.487	17.463	(1.004)	1105469	120.000	120
66 Anthracene	178	17.595	17.571	(1.010)	1091599	120.000	120
67 Carbazole	167	17.919	17.895	(1.029)	965882	120.000	120
68 Di-n-butylphthalate	149	18.653	18.646	(1.071)	1457176	120.000	120
69 Fluoranthene	202	19.916	19.903	(1.143)	1246435	120.000	120
71 Pyrene	202	20.381	20.356	(0.892)	1269941	120.000	120
$ 72 Terphenyl-d14	244	20.715	20.691	(0.906)	881099	120.000	120
73 Butylbenzylphthalate	149	21.730	21.706	(0.951)	642605	120.000	120
74 3,3'-Dichlorobenzidine	252	22.788	22.763	(0.997)	415159	120.000	120
75 Benzo(a)anthracene	228	22.831	22.807	(0.999)	1148794	120.000	120

Data File: S2D0940.D
Report Date: 04-Jan-2003 13:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	
* 76 Chrysene-d12	240	22.853	22.828	(1.000)	315016	40.0000		
77 Chrysene	228	22.917	22.882	(1.003)	973500	120.000	120	
78 bis(2-Ethylhexyl)phthalate	149	22.896	22.882	(1.002)	797758	120.000	120	
79 Di-n-octylphthalate	149	24.159	24.145	(0.937)	1532862	120.000	120	
80 Benzo(b)fluoranthene	252	24.947	24.912	(0.968)	1171446	120.000	120	
81 Benzo(k)fluoranthene	252	25.012	24.976	(0.970)	898615	120.000	110	
82 Benzo(a)pyrene	252	25.670	25.635	(0.996)	941380	120.000	120	
* 83 Perylene-d12	264	25.778	25.754	(1.000)	178811	40.0000		
84 Indeno(1,2,3-cd)pyrene	276	28.801	28.744	(1.117)	1014166	120.000	120	(M)
85 Dibenzo(a,h)anthracene	278	28.876	28.809	(1.120)	902015	120.000	120	
86 Benzo(g,h,i)perylene	276	29.740	29.651	(1.154)	884395	120.000	120	

-M2
JC
1-7-03

QC Flag Legend

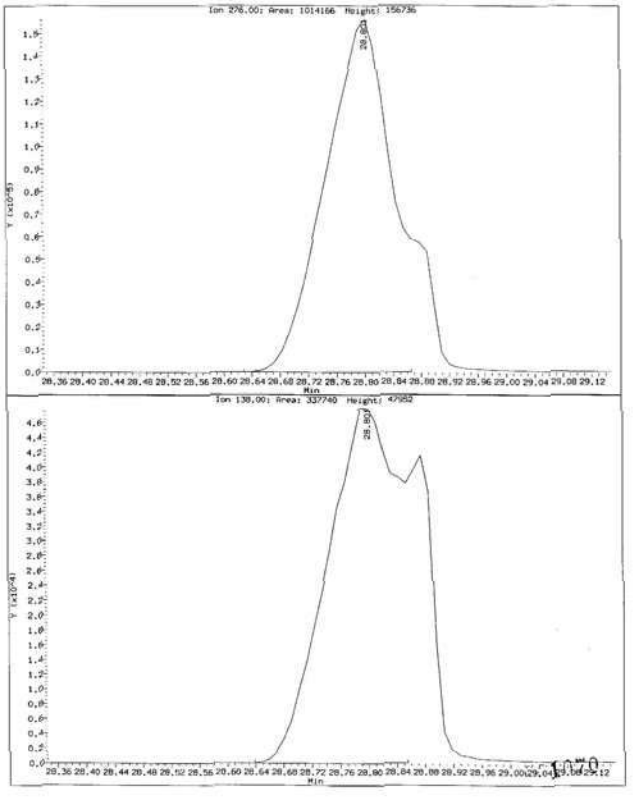
M - Compound response manually integrated.

JC
1-7-03

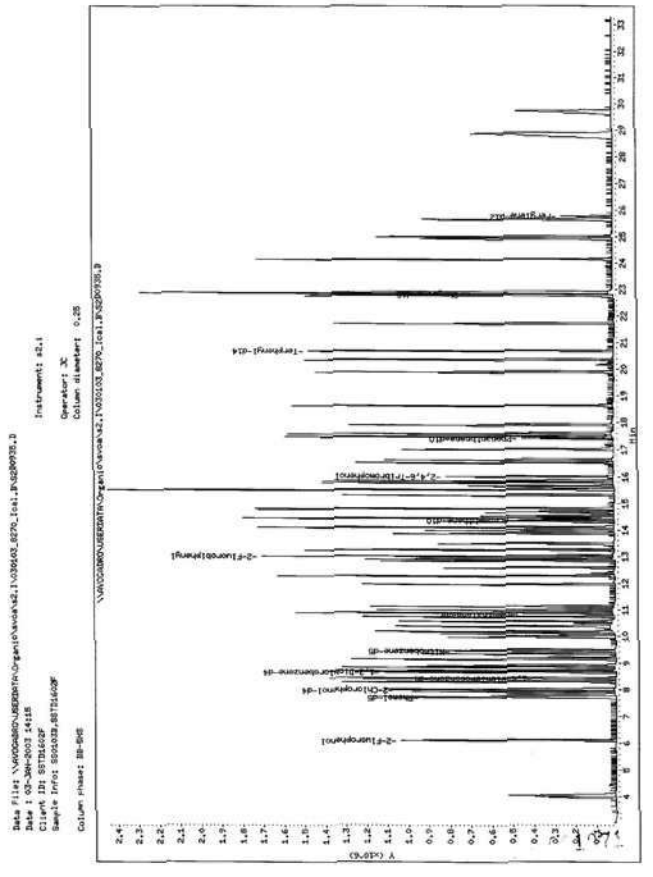
001069

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103_8270_Ical.B\S2D0940.D
Injection Date: 03-JAN-2003 17:47
Instrument: s2.i
Client Sample ID: SSTD1202F

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5



001070



Data File: S2D0935.D
Report Date: 04-Jan-2003 13:51

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103_8270_Ical.B\S2D0935
Lab Smp Id: SS0103B
Client Smp ID: SSTD1602F
Inj Date : 03-JAN-2003 14:15
Operator : JC
Inst ID: s2.i
Smp Info : SS0103B,SSTD1602F
Misc Info : 1,6,SSTD160,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103_8270_Ical.B\s2_8270
Meth Date : 04-Jan-2003 13:46 mtl
Quant Type: ISTD
Cal Date : 03-JAN-2003 14:15
Cal File: S2D0935.D
Als bottle: 4
Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	
	1 N-Nitrosodimethylamine	74	3.979	3.969	(0.475)	392832	160.000	140	(A)
	97 Azobenzene	77	15.854	15.833	(0.910)	1007989	160.000	150	
	2 Pyridine	79	4.033	4.014	(0.480)	725120	160.000	170	(A)
$	3 2-Fluorophenol	112	6.106	6.096	(0.726)	632962	160.000	160	
$	5 Phenol-d5	99	7.714	7.683	(0.918)	790082	160.000	150	
	6 Phenol	94	7.747	7.715	(0.922)	797084	160.000	150	
	7 Aniline	93	7.801	7.791	(0.928)	718840	160.000	160	
	8 bis(2-Chloroethyl)Ether	93	7.910	7.899	(0.943)	586834	160.000	150	
$	9 2-Chlorophenol-d4	132	7.995	7.974	(0.951)	653954	160.000	160	
	10 2-Chlorophenol	128	8.027	8.007	(0.955)	623151	160.000	150	
	11 1,3-Dichlorobenzene	146	8.297	8.287	(0.987)	597134	160.000	150	
*	12 1,4-Dichlorobenzene-d4	152	8.405	8.395	(1.000)	111223	40.0000		
	13 1,4-Dichlorobenzene	146	8.438	8.428	(1.004)	618881	160.000	150	
	15 Benzyl Alcohol	108	8.644	8.633	(1.031)	618104	160.000	150	
$	14 1,2-Dichlorobenzene-d4	152	8.686	8.676	(1.033)	357180	160.000	150	
	16 1,2-Dichlorobenzene	146	8.718	8.708	(1.037)	556097	160.000	150	
	17 2-Methylphenol	108	8.848	8.827	(1.053)	528118	160.000	150	
	18 2,2'-oxybis(1-Chloropropane)	45	8.913	8.892	(1.060)	940193	160.000	150	
	20 4-Methylphenol	108	9.150	9.118	(1.089)	579513	160.000	150	
	19 N-Nitroso-di-n-propylamine	70	9.204	9.140	(1.095)	318016	160.000	150	
	21 Hexachloroethane	117	9.345	9.345	(1.112)	228572	160.000	150	
$	22 Nitrobenzene-d5	82	9.452	9.431	(0.872)	570395	160.000	160	(A)
	23 Nitrobenzene	77	9.494	9.464	(0.876)	558166	160.000	160	
	24 Isophorone	82	9.960	9.928	(0.918)	1013018	160.000	160	
	25 2-Nitrophenol	139	10.100	10.079	(0.931)	365182	160.000	160	(A)
	26 2,4-Dimethylphenol	107	10.176	10.155	(0.938)	521388	160.000	170	(A)

001072

Data File: S2D0935.D
Report Date: 04-Jan-2003 13:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL AMT (ng)	ON-COL (ng)
	28 Benzoic Acid	105	10.435	10.327	(0.962)	254357	160.000	120
	27 bis(2-Chloroethoxy)methane	93	10.370	10.349	(0.956)	654074	160.000	160
	29 2,4-Dichlorophenol	162	10.564	10.543	(0.974)	459940	160.000	160
	30 1,2,4-Trichlorobenzene	180	10.726	10.716	(0.989)	472326	160.000	160
*	31 Naphthalene-d8	136	10.845	10.835	(1.000)	368877	40.0000	
	32 Naphthalene	128	10.888	10.878	(1.004)	1514940	160.000	150
	33 4-Chloroaniline	127	10.996	10.975	(1.014)	642188	160.000	160
	34 Hexachlorobutadiene	225	11.126	11.116	(1.026)	243186	160.000	160
	35 4-Chloro-3-Methylphenol	107	11.957	11.936	(1.103)	456425	160.000	150
	36 2-Methylnaphthalene	142	12.281	12.260	(1.132)	987848	160.000	150
	38 Hexachlorocyclopentadiene	237	12.581	12.573	(0.875)	242066	160.000	200(A)
	39 2,4,6-Trichlorophenol	196	12.842	12.821	(0.893)	335851	160.000	140(A)
	40 2,4,5-Trichlorophenol	196	12.907	12.897	(0.897)	334948	160.000	150
$	41 2-Fluorobiphenyl	172	13.026	13.005	(0.905)	1011310	160.000	150
	42 2-Chloronaphthalene	162	13.263	13.242	(0.922)	877211	160.000	150
	43 2-Nitroaniline	65	13.479	13.447	(0.937)	308108	160.000	160(A)
	44 Dimethylphthalate	163	13.868	13.836	(0.964)	1108266	160.000	160
	45 2,6-Dinitrotoluene	165	13.997	13.955	(0.971)	309962	160.000	160(A)
	46 Acenaphthylene	152	14.105	14.084	(0.980)	1455227	160.000	150
	47 3-Nitroaniline	138	14.332	14.289	(0.996)	332251	160.000	160
*	48 Acenaphthene-d10	164	14.386	14.376	(1.000)	196304	40.0000	
	49 Acenaphthene	153	14.461	14.448	(1.005)	892501	160.000	150
	50 2,4-Dinitrophenol	184	14.537	14.505	(1.011)	216230	160.000	190(A)
	51 4-Nitrophenol	109	14.677	14.635	(1.020)	127582	160.000	170(A)
	53 2,4-Dinitrotoluene	165	14.807	14.775	(1.029)	354959	160.000	150
	52 Dibenzofuran	168	14.818	14.797	(1.030)	1208881	160.000	150
	54 Diethylphthalate	149	15.314	15.293	(1.065)	1049855	160.000	150
	55 Fluorene	166	15.519	15.498	(1.079)	871244	160.000	140
	56 4-Chlorophenyl-phenylether	204	15.519	15.509	(1.079)	444782	160.000	140
	57 4-Nitroaniline	138	15.616	15.542	(1.086)	333105	160.000	160(A)
	58 4,6 Dinitro-2-methylphenol	198	15.660	15.606	(0.899)	293288	160.000	170(A)
	59 N-Nitrosodiphenylamine	169	15.778	15.747	(0.906)	719163	160.000	160
$	60 2,4,6-Tribromophenol	330	16.005	15.984	(0.919)	181843	160.000	160
	61 4-Bromophenyl-phenylether	248	16.523	16.502	(0.949)	302875	160.000	150
	62 Hexachlorobenzene	284	16.631	16.610	(0.955)	319608	160.000	150
	63 Pentachlorophenol	266	17.031	17.020	(0.978)	226127	160.000	170(A)
*	64 Phenanthrene-d10	188	17.419	17.409	(1.000)	335647	40.0000	
	65 Phenanthrene	178	17.484	17.463	(1.004)	1354061	160.000	150
	66 Anthracene	178	17.592	17.571	(1.010)	1342932	160.000	150
	67 Carbazole	167	17.916	17.895	(1.029)	1218492	160.000	160
	68 Di-n-butylphthalate	149	18.650	18.640	(1.071)	1747451	160.000	150
	69 Fluoranthene	202	19.913	19.903	(1.143)	1487035	160.000	150
	71 Pyrene	202	20.377	20.356	(0.892)	1522574	160.000	160(A)
$	72 Terphenyl-d14	244	20.712	20.691	(0.906)	1058396	160.000	160(A)
	73 Butylbenzylphthalate	149	21.727	21.706	(0.951)	743720	160.000	160
	74 3,3'-Dichlorobenzidine	252	22.795	22.763	(0.998)	493370	160.000	160
	75 Benzo(a)anthracene	228	22.828	22.807	(0.999)	1349824	160.000	160

001073

Data File: S2D0935.D
Report Date: 04-Jan-2003 13:51

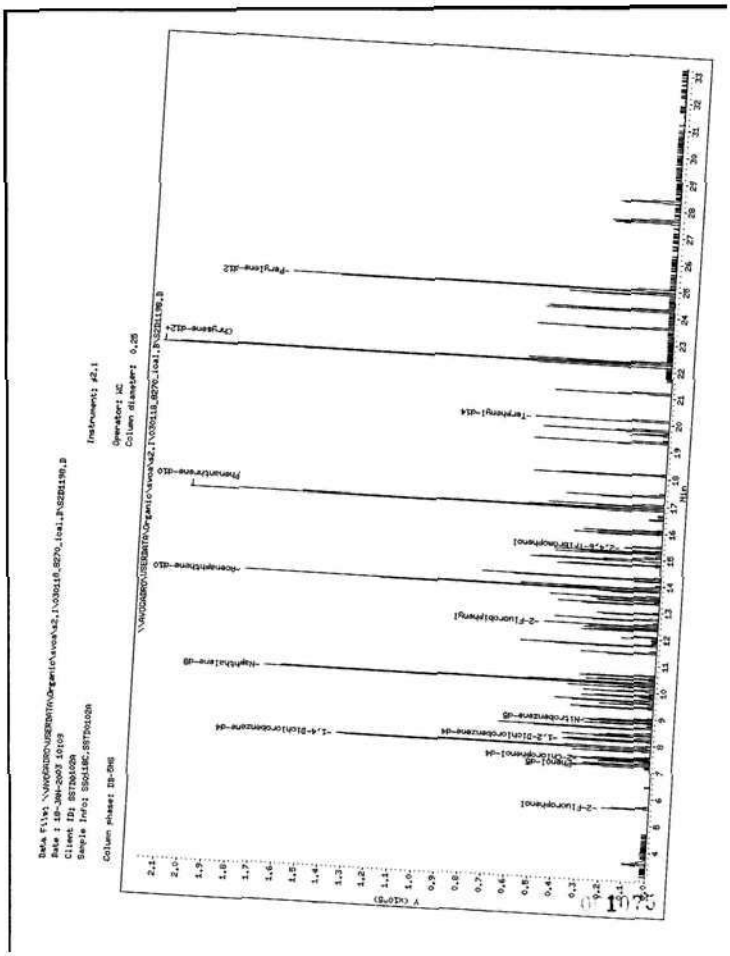
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL AMT (ng)	ON-COL (ng)
*	76 Chrysene-d12	240	22.849	22.828	(1.000)	284457	40.0000	
	77 Chrysene	228	22.914	22.883	(1.002)	1128428	160.000	150
	78 bis(2-Ethylhexyl)phthalate	149	22.892	22.882	(1.002)	940242	160.000	150
	79 Di-n-octylphthalate	149	24.155	24.145	(0.937)	1753036	160.000	160
	80 Benzo(b)fluoranthene	252	24.943	24.912	(0.968)	1323258	160.000	160(A)
	81 Benzo(k)fluoranthene	252	25.008	24.976	(0.970)	1557585	160.000	150
	82 Benzo(a)pyrene	252	25.678	25.635	(0.996)	1065454	160.000	160
*	83 Perylene-d12	264	25.775	25.754	(1.000)	192758	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	28.797	28.744	(1.117)	1123858	160.000	160
	85 Dibenzo(a,h)anthracene	278	28.884	28.809	(1.121)	968199	160.000	150
	86 Benzo(g,h,i)perylene	276	29.726	29.651	(1.153)	929979	160.000	140

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

JC
1-7-03

001074



001075

Data File: S2D1198.D
Report Date: 19-Jan-2003 11:58

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030118_8270_ical.B\S2D1198.D
Lab Smp Id: SS0118C
Inj Date : 18-JAN-2003 10:09 Client Smp ID: SSTD0102A
Operator : WC
Smp Info : SS0118C,SSTD0102A Inst ID: s2.i
Misc Info : 1,1,SSTD010,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030118_8270_ical.B\s2_8270C.M
Meth Date : 19-Jan-2003 11:56 mtl Quant Type: ISTD
Cal Date : 18-JAN-2003 12:56 Cal File: S2D1202.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL AMT (ng)	ON-COL (ng)
	1 N-Nitrosodimethylamine	74	3.550	3.538	(0.448)	6921	10.0000	10
	97 Azobenzene	77	15.326	15.315	(0.907)	26520	10.0000	11
	2 Pyridine	79	3.615	3.581	(0.456)	13123	10.0000	10
$	3 2-Fluorophenol	112	5.486	5.453	(0.715)	13022	10.0000	10(N)
$	5 Phenol-d5	99	7.253	7.251	(0.914)	14117	10.0000	10
	6 Phenol	94	7.274	7.283	(0.918)	17428	10.0000	10
	7 Aniline	93	7.317	7.316	(0.924)	19147	10.0000	10
	8 bis(2-Chloroethyl)Ether	93	7.436	7.445	(0.939)	13223	10.0000	11
$	9 2-Chlorophenol-d4	132	7.501	7.499	(0.947)	14051	10.0000	11
	10 2-Chlorophenol	128	7.533	7.532	(0.951)	14594	10.0000	11
	11 1,3-Dichlorobenzene	146	7.814	7.802	(0.986)	14680	10.0000	11
*	12 1,4-Dichlorobenzene-d4	152	7.833	7.910	(1.000)	39327	40.0000	
	13 1,4-Dichlorobenzene	146	7.964	7.942	(1.003)	15690	10.0000	11
	15 Benzyl Alcohol	108	8.170	8.169	(1.032)	8933	10.0000	11
$	14 1,2-Dichlorobenzene-d4	152	8.192	8.190	(1.034)	8911	10.0000	11
	16 1,2-Dichlorobenzene	146	8.224	8.212	(1.038)	13732	10.0000	11
	17 2-Methylphenol	108	8.375	8.374	(1.057)	12700	10.0000	11
	18 2,2'-oxybis(1-Chloropropane)	45	8.429	8.428	(1.064)	21697	10.0000	11
	20 4-Methylphenol	108	8.647	8.665	(1.094)	19534	10.0000	11
	19 N-Nitroso-di-n-propylamine	70	8.647	8.665	(1.094)	7934	10.0000	11
	21 Hexachloroethane	117	8.850	8.849	(1.117)	8710	10.0000	11
$	22 Nitrobenzene-d5	82	8.847	8.846	(0.666)	12966	10.0000	11
	23 Nitrobenzene	77	8.980	8.978	(0.969)	13129	10.0000	10
	24 Isophorone	82	9.466	9.463	(0.914)	23207	10.0000	11
	26 2-Nitrophenol	139	9.585	9.594	(0.929)	8170	10.0000	10
	24 2,4-Dimethylphenol	107	9.692	9.691	(0.938)	12470	10.0000	10
								11

MI 1/10/03

001076

Data File: S2D1198.D
Report Date: 19-Jan-2003 11:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
28 Benzoic Acid	105	9.822	9.936	(0.951)	3981	10.0000	4
27 bis(2-Chloroethoxy)methane	93	9.876	9.988	(0.956)	15332	10.0000	11
29 2,4-Dichlorophenol	162	10.070	10.038	(0.975)	10958	10.0000	10
30 1,2,4-Trichlorobenzene	180	10.221	10.220	(0.990)	11995	10.0000	10
* 31 Naphthalene-d8	136	10.329	10.328	(1.000)	139819	40.0000	
32 Naphthalene	128	10.372	10.371	(1.004)	38381	10.0000	11
33 4-Chloroaniline	127	10.491	10.490	(1.016)	19068	10.0000	10
34 Hexachlorobutadiene	225	10.631	10.629	(1.028)	6294	10.0000	10
35 4-Chloro-3-Methylphenol	107	11.474	11.473	(1.111)	11192	10.0000	10
36 2-Methylnaphthalene	142	11.754	11.753	(1.138)	25747	10.0000	11
38 Hexachlorocyclopentadiene	237	12.067	12.066	(0.871)	3748	10.0000	7 (M)
39 2,4,6-Trichlorophenol	196	12.326	12.325	(0.890)	7728	10.0000	10
40 2,4,5-Trichlorophenol	196	12.402	12.400	(0.896)	8613	10.0000	10
$ 41 2-Fluorobiphenyl	172	12.510	12.508	(0.903)	27179	10.0000	10
42 2-Chloronaphthalene	162	12.726	12.725	(0.919)	22470	10.0000	10
43 2-Nitroaniline	65	12.952	12.951	(0.935)	6993	10.0000	10
44 Dimethylphthalate	163	13.341	13.350	(0.963)	27257	10.0000	10
45 2,6-Dinitrotoluene	165	13.460	13.458	(0.972)	4958	10.0000	10
46 Acenaphthylene	152	13.568	13.566	(0.980)	37331	10.0000	10
* 48 Acenaphthene-d10	138	13.784	13.793	(0.995)	7655	10.0000	10
49 Acenaphthene	164	13.848	13.847	(1.000)	75939	40.0000	
51 4-Nitrophenol	153	13.919	13.922	(1.005)	23955	10.0000	10
53 2,4-Dinitrotoluene	109	14.162	14.171	(1.023)	2509	10.0000	8
52 Dibenzofuran	165	14.269	14.268	(1.030)	8750	10.0000	10
54 Diethylphthalate	168	14.269	14.268	(1.030)	32854	10.0000	10
55 Fluorene	149	14.777	14.786	(1.067)	26887	10.0000	10
56 4-Chlorophenyl-phenylether	166	14.960	14.970	(1.080)	25723	10.0000	10
57 4-Nitroaniline	204	14.993	14.991	(1.083)	13645	10.0000	10
58 4,6-Dinitro-2-methylphenol	138	15.014	15.034	(1.084)	7294	10.0000	10
59 N-Nitrosodiphenylamine	198	15.090	15.099	(0.894)	2325	10.0000	4
$ 60 2,4,6-Tribromophenol	169	15.230	15.239	(0.902)	18390	10.0000	10
61 4-Bromophenyl-phenylether	330	15.457	15.455	(0.916)	3758	10.0000	9
62 Hexachlorobenzene	248	15.975	15.984	(0.947)	8102	10.0000	10
63 Pentachlorophenol	284	16.072	16.071	(0.953)	8086	10.0000	10
* 64 Phenanthrene-d10	266	16.493	16.492	(0.978)	1950	10.0000	4
65 Phenanthrene	188	16.871	16.870	(1.000)	137520	40.0000	
66 Anthracene	178	16.914	16.913	(1.003)	36882	10.0000	10
67 Carbazole	178	17.022	17.021	(1.009)	38195	10.0000	11
68 Di-n-butylphthalate	167	17.368	17.366	(1.029)	33852	10.0000	11
69 Fluoranthene	149	18.123	18.122	(1.074)	46912	10.0000	10
71 Pyrene	202	19.332	19.342	(1.146)	41533	10.0000	10
$ 72 Terphenyl-d14	244	19.786	19.795	(0.889)	42690	10.0000	10
73 Butylbenzylphthalate	149	20.142	20.151	(0.905)	29145	10.0000	10
74 3,3'-Dichlorobenzidine	252	21.168	21.177	(0.951)	20183	10.0000	10
75 Benzo(a)anthracene	228	21.304	22.213	(0.998)	15309	10.0000	11
* 76 Chrysene-d12	240	22.236	22.235	(0.999)	40170	10.0000	10
		22.258	22.256	(1.000)	139682	40.0000	

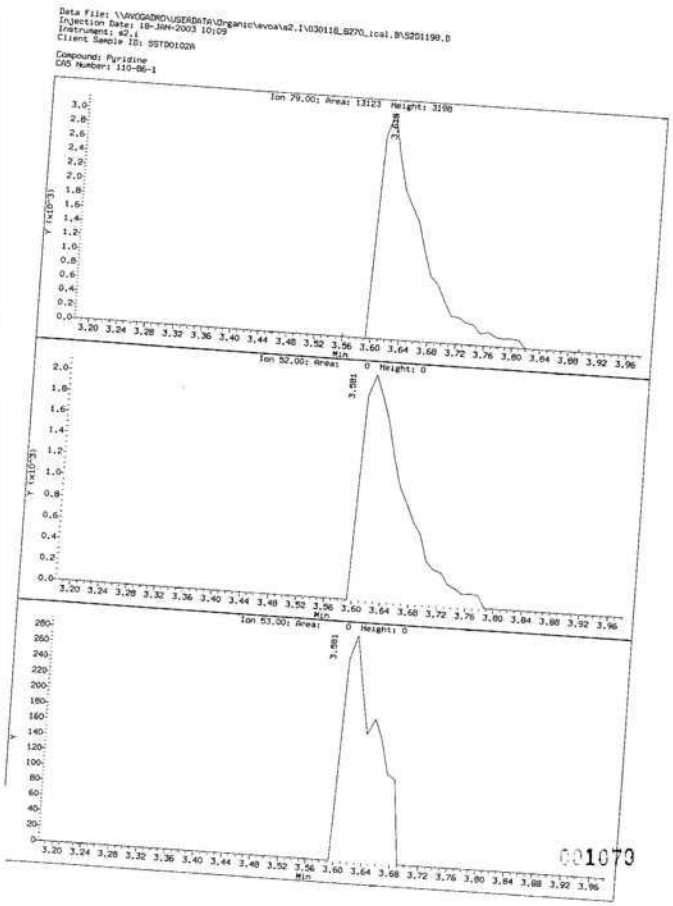
MS peak saved 01/19/03

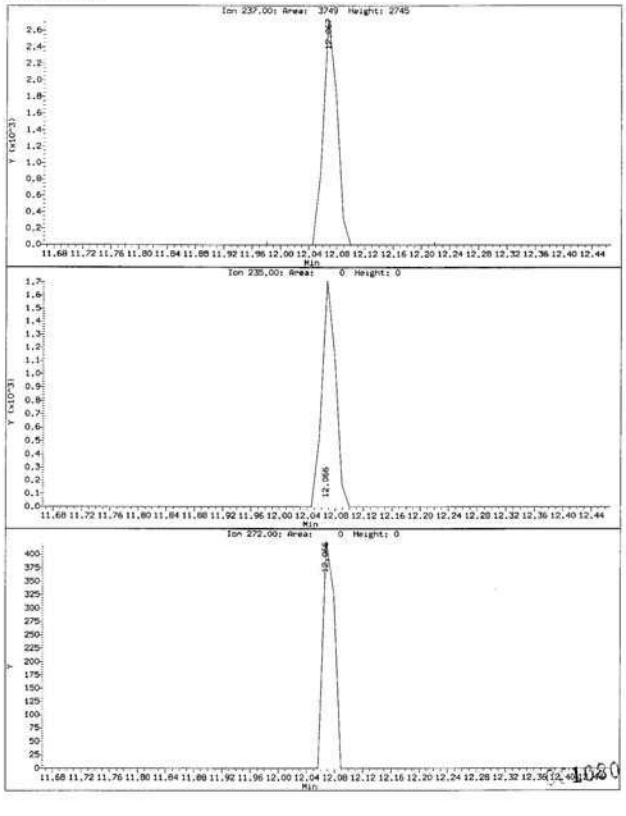
Data File: S2D1198.D
Report Date: 19-Jan-2003 11:58

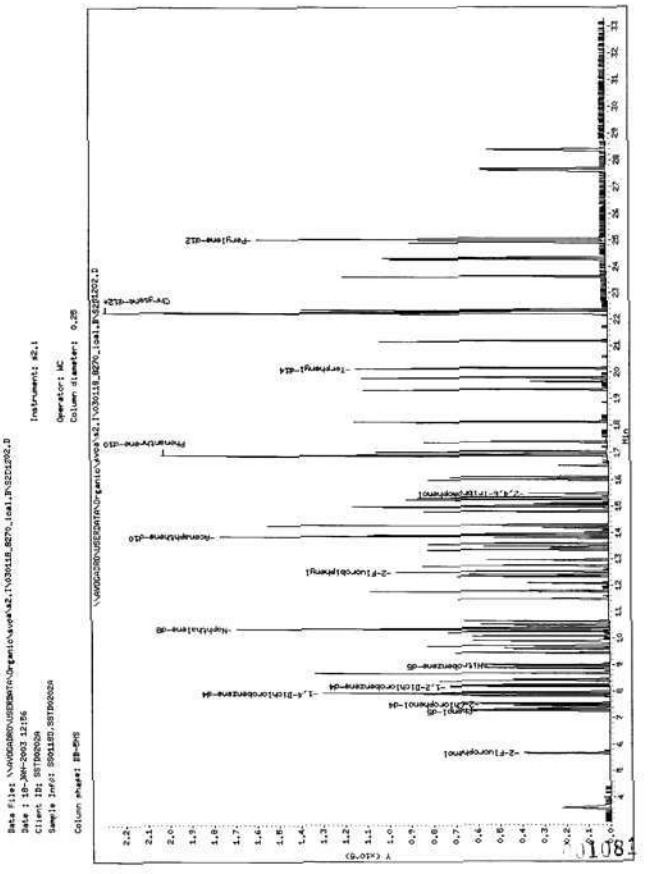
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
77 Chrysene	228	22.301	22.310	(1.002)	36580	10.0000	10
78 bis(2-Ethylhexyl)phthalate	149	22.355	22.364	(1.004)	26442	10.0000	10
79 Di-n-octylphthalate	149	23.607	23.616	(0.943)	50070	10.0000	10
80 Benzo(b)fluoranthene	252	24.266	24.286	(0.970)	38735	10.0000	10
81 Benzo(k)fluoranthene	252	24.320	24.340	(0.972)	33865	10.0000	10
82 Benzo(a)pyrene	252	24.892	24.913	(0.995)	34435	10.0000	10
* 83 Perylene-d12	264	25.021	25.020	(1.000)	95281	40.0000	
84 Indeno(1,2,3-cd)pyrene	276	27.560	27.611	(1.102)	42105	10.0000	11
85 Dibenzo(a,h)anthracene	278	27.634	27.675	(1.104)	33715	10.0000	10
86 Benzo(g,h,i)perylene	276	28.346	28.388	(1.133)	34416	10.0000	10

QC Flag Legend

M - Compound response manually integrated.







001081

Data File: S2D1202.D
Report Date: 19-Jan-2003 10:29

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030118_8270_ical.B\S2D1202
Lab Smp Id: SS0118D
Client Smp ID: SSTD0202A
Inj Date : 18-JAN-2003 12:56
Operator : WC
Inst ID: s2.i
Smp Info : SS0118D,SSTD0202A
Misc Info : 1,2,SSTD020,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030118_8270_ical.B\s2_8270
Meth Date : 18-Jan-2003 13:56 mtl
Quant Type: ISTD
Cal Date : 18-JAN-2003 12:56
Cal File: S2D1202.D
Als bottle: 5
Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 N-Nitrosodimethylamine	74	3.559	3.538	(0.449)	14240	20.0000	20
	97 Azobenzene	77	15.315	15.315	(0.907)	51756	20.0000	21
	2 Pyridine	79	3.602	3.581	(0.454)	26301	20.0000	20
S	3 2-Fluorophenol	112	5.675	5.653	(0.716)	26077	20.0000	21
S	5 Phenol-d5	99	7.262	7.251	(0.916)	32486	20.0000	21
	6 Phenol	94	7.283	7.283	(0.918)	34977	20.0000	21
	7 Aniline	93	7.337	7.316	(0.924)	37806	20.0000	23
	8 bis(2-Chloroethyl)Ether	93	7.456	7.445	(0.940)	25589	20.0000	21
S	9 2-Chlorophenol-d4	132	7.510	7.499	(0.947)	27804	20.0000	21
	10 2-Chlorophenol	128	7.543	7.532	(0.951)	28602	20.0000	21
	11 1,3-Dichlorobenzene	146	7.823	7.802	(0.986)	29267	20.0000	22
*	12 1,4-Dichlorobenzene-d4	152	7.931	7.910	(1.000)	39422	40.0000	
	13 1,4-Dichlorobenzene	146	7.953	7.942	(1.003)	30625	20.0000	21
	15 Benzyl Alcohol	108	8.179	8.169	(1.031)	17814	20.0000	21
S	14 1,2-Dichlorobenzene-d4	152	8.201	8.190	(1.034)	17741	20.0000	22
	16 1,2-Dichlorobenzene	146	8.233	8.212	(1.038)	27554	20.0000	22
	17 2-Methylphenol	108	8.384	8.374	(1.057)	25330	20.0000	22
	18 2,2'-oxybis(1-Chloropropane)	45	8.438	8.428	(1.064)	42055	20.0000	21
	20 4-Methylphenol	108	8.676	8.665	(1.094)	26727	20.0000	22
	19 N-Nitroso-di-n-propylamine	70	8.676	8.665	(1.094)	14854	20.0000	23
	21 Hexachloroethane	117	8.860	8.849	(1.117)	30555	20.0000	21
S	22 Nitrobenzene-d5	82	8.957	8.946	(0.866)	25179	20.0000	20
	23 Nitrobenzene	77	8.989	8.978	(0.869)	25434	20.0000	21
	24 Isophorone	82	9.453	9.443	(0.914)	45374	20.0000	20
	25 2-Nitrophenol	139	9.604	9.594	(0.929)	16661	20.0000	20
	26 2,4-Dimethylphenol	107	9.702	9.691	(0.938)	25683	20.0000	21

001082

Data File: S2D1202.D
Report Date: 19-Jan-2003 10:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	
	28 Benzoic Acid	105	9.864	9.896	(0.954)	11619	20.0000	18	
	27 bis(2-Chloroethoxy)methane	93	9.885	9.885	(0.956)	10109	20.0000	21	
	29 2,4-Dichlorophenol	162	10.069	10.058	(0.974)	22319	20.0000	21	
	30 1,2,4-Trichlorobenzene	180	10.231	10.220	(0.990)	23760	20.0000	21	
*	31 Naphthalene-d8	136	10.338	10.328	(1.000)	134257	40.0000		
	32 Naphthalene	128	10.382	10.371	(1.004)	76131	20.0000	21	
	33 4-Chloroaniline	127	10.500	10.490	(1.016)	29796	20.0000	20	
	34 Hexachlorobutadiene	225	10.630	10.619	(1.028)	12962	20.0000	21	
	35 4-Chloro-3-Methylphenol	107	11.483	11.472	(1.111)	22241	20.0000	20	
	36 2-Methylnaphthalene	142	11.763	11.753	(1.138)	50310	20.0000	21	
	38 Hexachlorocyclopentadiene	237	12.076	12.066	(0.871)	9219	20.0000	17	
	39 2,4,6-Trichlorophenol	196	12.336	12.325	(0.890)	16223	20.0000	20	
	40 2,4,5-Trichlorophenol	196	12.411	12.400	(0.896)	17698	20.0000	20	
S	41 2-Fluorobiphenyl	172	12.519	12.508	(0.903)	53218	20.0000	20	
	42 2-Chloronaphthalene	162	12.746	12.735	(0.920)	44180	20.0000	20	
	43 2-Nitroaniline	65	12.962	12.951	(0.935)	14028	20.0000	20	
	44 Dimethylphthalate	163	13.350	13.350	(0.963)	54636	20.0000	20	
	45 2,6-Dinitrotoluene	165	13.469	13.458	(0.972)	13764	20.0000	20	
	46 Acenaphthylene	152	13.577	13.566	(0.980)	73759	20.0000	20(M)	MF per w_sheet
	47 3-Nitroaniline	138	13.793	13.793	(0.995)	14717	20.0000	20	1/19/03
*	48 Acenaphthene-d10	164	13.858	13.847	(1.000)	76682	40.0000		
	49 Acenaphthene	153	13.922	13.922	(1.005)	46520	20.0000	20	
	50 2,4-Dinitrophenol	184	14.020	14.009	(1.012)	3679	20.0000	11	
	51 4-Nitrophenol	109	14.171	14.171	(1.023)	5601	20.0000	18	
	53 2,4-Dinitrotoluene	165	14.279	14.268	(1.030)	17851	20.0000	20	
	52 Dibenzofuran	168	14.279	14.268	(1.030)	65340	20.0000	20	
	54 Diethylphthalate	149	14.797	14.786	(1.068)	53518	20.0000	20	
	55 Fluorene	166	14.980	14.970	(1.081)	51060	20.0000	20	
	56 4-Chlorophenyl-phenylether	204	15.002	14.991	(1.083)	26649	20.0000	20	
	57 4-Nitroaniline	138	15.034	15.034	(1.085)	14794	20.0000	20	
	58 4,6-Dinitro-2-methylphenol	198	15.099	15.099	(0.894)	9674	20.0000	17	
	59 N-Nitrosodiphenylamine	169	15.239	15.239	(0.903)	16306	20.0000	20	
S	60 2,4,6-Tribromophenol	330	15.466	15.455	(0.916)	7935	20.0000	20	
	61 4-Bromophenyl-phenylether	248	15.984	15.984	(0.947)	16292	20.0000	21	
	62 Hexachlorobenzene	284	16.081	16.071	(0.953)	16649	20.0000	20	
	63 Pentachlorophenol	266	16.502	16.492	(0.978)	6176	20.0000	14	
*	64 Phenanthrene-d10	188	16.880	16.870	(1.000)	135766	40.0000		
	65 Phenanthrene	178	16.924	16.913	(1.003)	72260	20.0000	21	
	66 Anthracene	178	17.031	17.021	(1.009)	73816	20.0000	21	
	67 Carbazole	167	17.377	17.366	(1.029)	63379	20.0000	21(M)	MF per w_sheet
	68 Di-n-Butylphthalate	149	18.133	18.122	(1.074)	94043	20.0000	21	
	69 Fluoranthene	202	19.342	19.342	(1.146)	81890	20.0000	21	1/19/03
	71 Pyrene	202	19.795	19.795	(0.889)	84310	20.0000	20	
S	72 Terphenyl-d14	244	20.151	20.151	(0.905)	58795	20.0000	20	
	73 Butylbenzylphthalate	149	21.177	21.177	(0.951)	40267	20.0000	20	
	74 3,3'-Dichlorobenzidine	252	22.213	22.213	(0.998)	30602	20.0000	21	
	75 Benzo(a)anthracene	228	22.246	22.235	(0.999)	79727	20.0000	20	

001083

Data File: S2D1202.D
Report Date: 19-Jan-2003 10:29

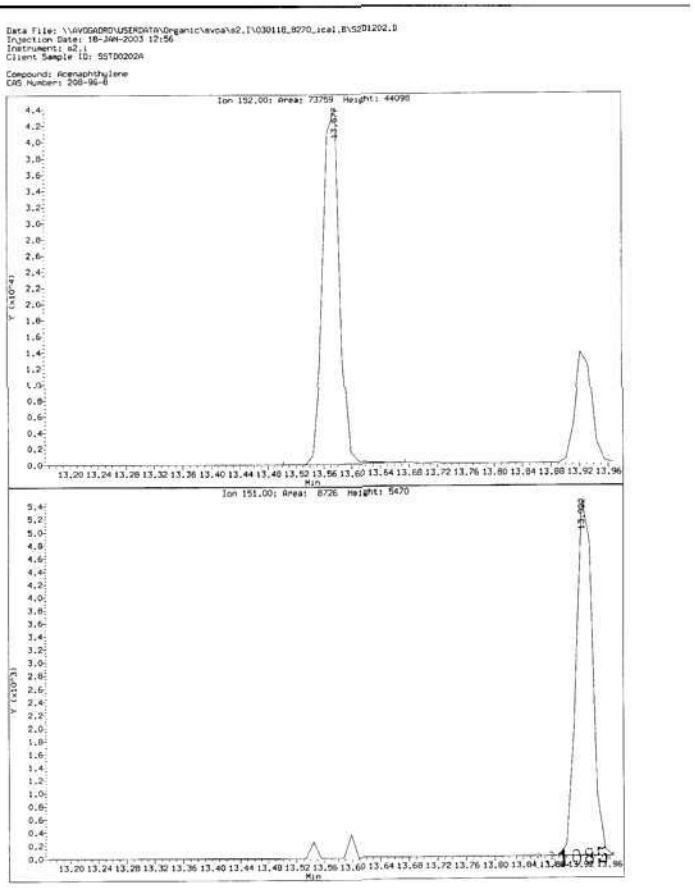
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)	
*	76 Chrysene-d12	240	22.267	22.256	(1.000)	140785	40.0000		
	77 Chrysene	228	22.310	22.310	(1.002)	72266	20.0000	20	
	78 bis(2-Ethylhexyl)phthalate	149	22.364	22.364	(1.004)	57070	20.0000	20	
	79 Di-n-octylphthalate	149	23.616	23.616	(0.944)	100985	20.0000	20	
	80 Benzo(b)fluoranthene	252	24.286	24.286	(0.970)	76543	20.0000	19	
	81 Benzo(k)fluoranthene	252	24.329	24.340	(0.972)	68170	20.0000	20	
	82 Benzo(a)pyrene	252	24.912	24.912	(0.995)	63856	20.0000	20	
*	83 Perylene-d12	264	25.031	25.020	(1.000)	97676	40.0000		
	84 Indeno(1,2,3-cd)pyrene	276	27.660	27.631	(1.103)	77213	20.0000	20(M)	MF per w_sheet
	85 Dibenzo(a,h)anthracene	278	27.665	27.675	(1.105)	69252	20.0000	20	1/19/03
	86 Benzo(g,h,i)perylene	276	28.397	28.388	(1.134)	70942	20.0000	20	

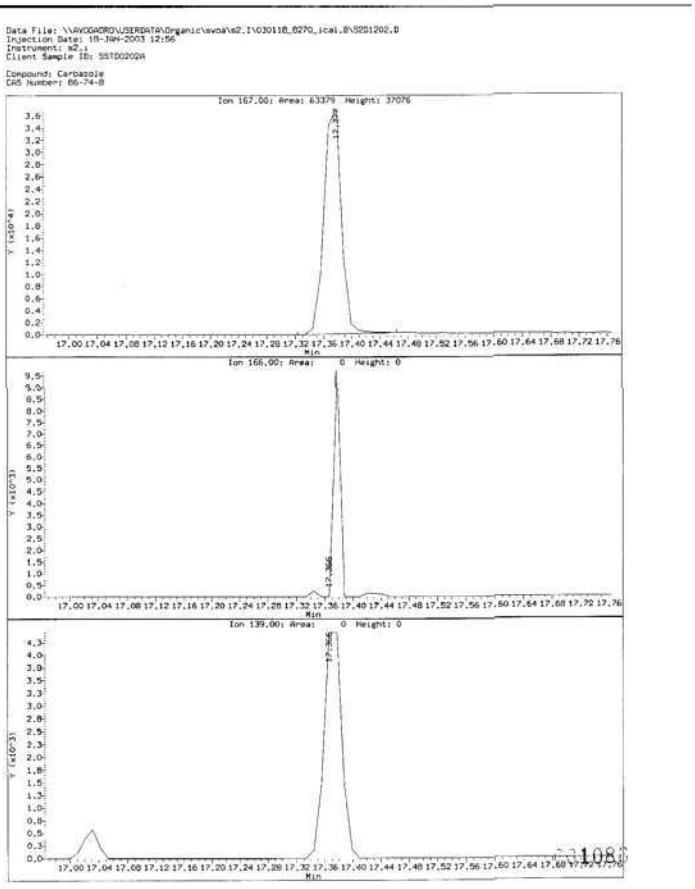
QC Flag Legend

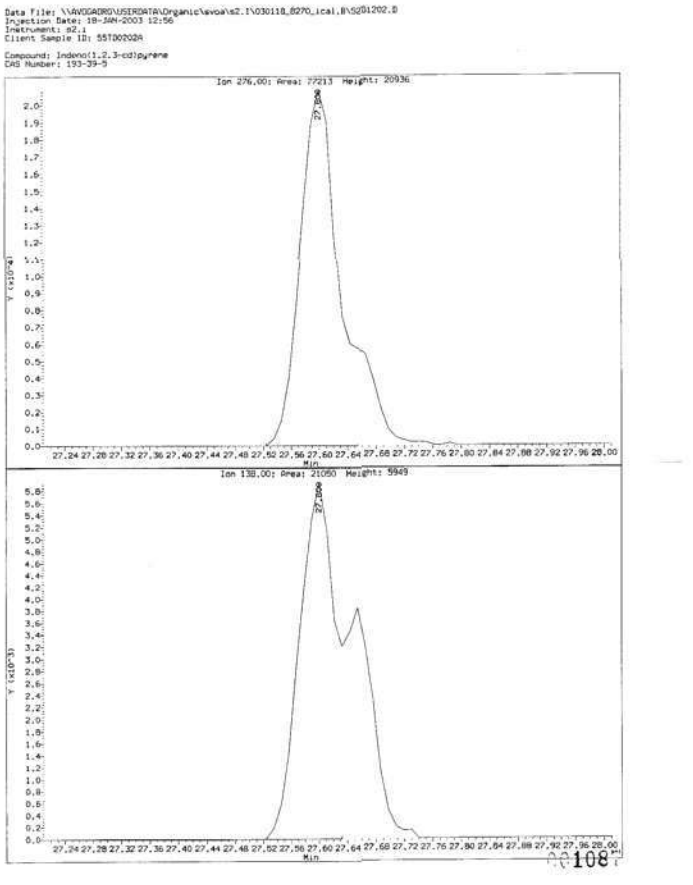
M - Compound response manually integrated.

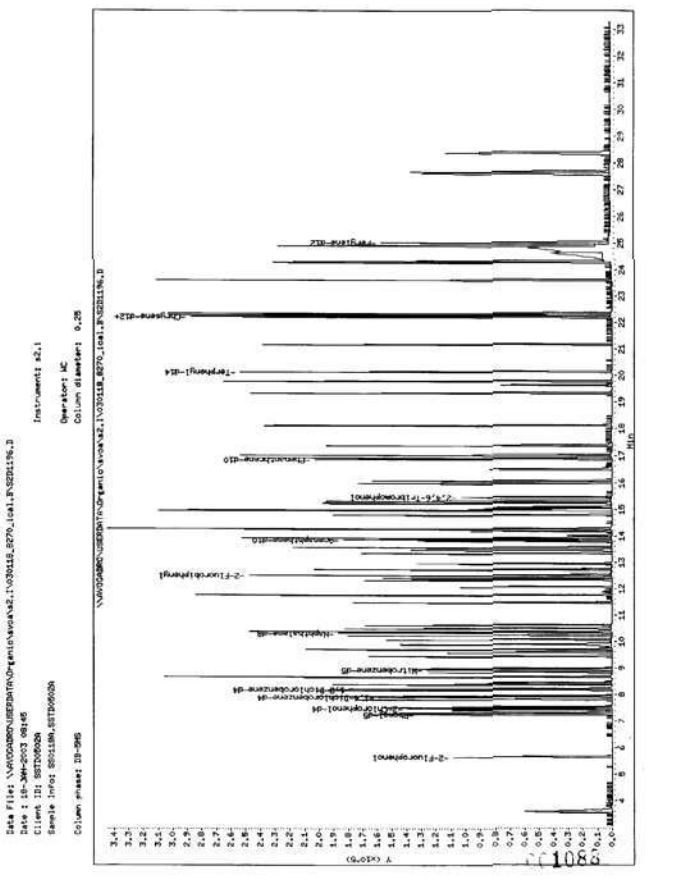
1/19/03

001084


Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030118_8270_ical.B\S2D1202.D
Injection Date: 18-JAN-2003 12:56
Instrument: s2.i
Client Sample ID: SSTD0202A
Compound: Acenaphthylene
CAS Number: 208-96-8
Ion 152.00: Area: 73759 Height: 44098
13.379
Ion 151.00: Area: 8726 Height: 5470
13.360
Min


Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030118_8270_ical.B\S2D1202.D
Injection Date: 18-JAN-2003 12:56
Instrument: s2.i
Client Sample ID: SSTD0202A
Compound: Carbazole
CAS Number: 86-74-8
Ion 167.00: Area: 63376 Height: 37076
12.379
Ion 166.00: Area: 0 Height: 0
12.366
Ion 139.00: Area: 0 Height: 0
17.364
Min


Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030118_8270_ical.B\S2D1202.D
Injection Date: 18-JAN-2003 12:56
Instrument: s2.i
Client Sample ID: SSTD0202A
Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5
Ion 276.00: Area: 77213 Height: 20936
27.394
Ion 138.00: Area: 21050 Height: 5949
27.394
Min


Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030118_8270_ical.B\S2D1196.D
Date : 18-JAN-2003 08:45
Client ID: SSTD0502A
Sample Info: 8501SM,SSTD0502A
Column phase: DB-5MS
Instrument: s2.i
Operator: HC
Column diameter: 0.25
2-Fluorophenol
Min

Data File: S2D1196.D
Report Date: 19-Jan-2003 10:28

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030118_8270_ical.B\S2D1196
Lab Smp Id: SS0118A Client Smp ID: SSTD0502A
Inj Date : 18-JAN-2003 08:45
Operator : WC Inst ID: s2.i
Smp Info : SS0118A,SSTD0502A
Misc Info : 1,3,SSTD050,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030118_8270_ical.B\s2_8270
Meth Date : 18-Jan-2003 13:56 mtl Quant Type: ISTD
Cal Date : 18-JAN-2003 12:13 Cal File: S2D1201.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	1 N-Nitrosodimethylamine	74	3.538	3.538	(0.447)	38227	50.0000	51
	37 Azobenzene	77	15.315	15.315	(0.908)	126336	50.0000	49
	2 Pyridine	79	3.581	3.581	(0.453)	68657	50.0000	50
$	3 2-Fluorophenol	112	5.653	5.653	(0.715)	66910	50.0000	50
$	5 Phenol-d5	99	7.251	7.251	(0.917)	82122	50.0000	50
	6 Phenol	94	7.283	7.283	(0.921)	88609	50.0000	50
	7 Aniline	93	7.316	7.316	(0.925)	97216	50.0000	51
	8 bis(2-Chloroethyl)Ether	93	7.445	7.445	(0.941)	64377	50.0000	50
$	9 2-Chlorophenol-d4	132	7.499	7.499	(0.948)	67934	50.0000	49
	10 2-Chlorophenol	128	7.532	7.532	(0.952)	71981	50.0000	50
	11 1,3-Dichlorobenzene	146	7.802	7.802	(0.986)	70815	50.0000	50
*	12 1,4-Dichlorobenzene-d4	152	7.910	7.910	(1.000)	41467	40.0000	
	13 1,4-Dichlorobenzene	146	7.942	7.942	(1.004)	74498	50.0000	49
	15 Benzyl Alcohol	108	8.169	8.169	(1.033)	44091	50.0000	50
$	14 1,2-Dichlorobenzene-d4	152	8.190	8.190	(1.035)	41906	50.0000	49
	16 1,2-Dichlorobenzene	146	8.212	8.212	(1.038)	66040	50.0000	50
	17 2-Methylphenol	108	8.374	8.374	(1.059)	60960	50.0000	49
	18 2,2'-oxybis(1-Chloropropane)	45	8.428	8.428	(1.066)	103888	50.0000	50
	20 4-Methylphenol	108	8.665	8.665	(1.096)	66047	50.0000	51
	19 N-Nitroso-di-n-propylamine	70	8.665	8.665	(1.096)	35664	50.0000	52
	21 Hexachloroethane	117	8.849	8.849	(1.119)	27647	50.0000	50
$	22 Nitrobenzene-d5	82	8.946	8.946	(0.866)	63740	50.0000	50
	23 Nitrobenzene	77	8.978	8.978	(0.869)	62274	50.0000	49
	24 Isophorone	82	9.443	9.443	(0.914)	114504	50.0000	50
	25 2-Nitrophenol	139	9.594	9.594	(0.929)	40957	50.0000	49
	26 2,4-Dimethylphenol	107	9.691	9.691	(0.938)	61306	50.0000	49

Data File: S2D1196.D
Report Date: 19-Jan-2003 10:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	28 Benzoic Acid	105	9.896	9.896	(0.958)	29227	50.0000	44
	27 bis(2-Chloroethoxy)methane	93	9.885	9.885	(0.957)	71865	50.0000	49
	29 2,4-Dichlorophenol	162	10.058	10.058	(0.974)	53330	50.0000	48
	30 1,2,4-Trichlorobenzene	180	10.220	10.220	(0.990)	57250	50.0000	49
*	31 Naphthalene-d8	136	10.328	10.328	(1.000)	142105	40.0000	
	32 Naphthalene	128	10.371	10.371	(1.004)	161332	50.0000	49
	33 4-Chloroaniline	127	10.490	10.490	(1.016)	78081	50.0000	50
	34 Hexachlorobutadiene	225	10.619	10.619	(1.028)	30678	50.0000	48
	35 4-Chloro-3-Methylphenol	107	11.472	11.472	(1.111)	56067	50.0000	50
	36 2-Methylnaphthalene	142	11.753	11.753	(1.138)	122376	50.0000	47
	38 Hexachlorocyclopentadiene	237	12.066	12.066	(0.871)	26213	50.0000	47
	39 2,4,6-Trichlorophenol	196	12.325	12.325	(0.890)	40209	50.0000	49
	40 2,4,5-Trichlorophenol	196	12.400	12.400	(0.896)	42178	50.0000	48
$	41 2-Fluorobiphenyl	172	12.508	12.508	(0.903)	127987	50.0000	48
	42 2-Chloronaphthalene	162	12.735	12.735	(0.920)	106572	50.0000	48
	43 2-Nitroaniline	65	12.951	12.951	(0.935)	35580	50.0000	50
	44 Dimethylphthalate	163	13.350	13.350	(0.964)	133348	50.0000	49
	45 2,6-Dinitrotoluene	165	13.458	13.458	(0.972)	35384	50.0000	49
	46 Acenaphthylene	152	13.566	13.566	(0.980)	179782	50.0000	48
	47 3-Nitroaniline	138	13.793	13.793	(0.996)	36020	50.0000	48
*	48 Acenaphthene-d10	164	13.847	13.847	(1.000)	78454	40.0000	
	49 Acenaphthene	153	13.922	13.922	(1.005)	112328	50.0000	48
	50 2,4-Dinitrophenol	184	14.009	14.009	(1.012)	9896	50.0000	31
	51 4-Nitrophenol	109	14.171	14.171	(1.023)	14850	50.0000	48
	53 2,4-Dinitrotoluene	165	14.268	14.268	(1.030)	43315	50.0000	48
	52 Dibenzofuran	168	14.268	14.268	(1.030)	158894	50.0000	49
	54 Diethylphthalate	149	14.786	14.786	(1.068)	130452	50.0000	48
	55 Fluorene	166	14.970	14.970	(1.081)	125092	50.0000	49
	56 4-Chlorophenyl-phenylether	204	14.991	14.991	(1.083)	64377	50.0000	48
	57 4-Nitroaniline	138	15.034	15.034	(1.086)	36607	50.0000	48
	58 4,6-Dinitro-2-methylphenol	198	15.099	15.099	(0.895)	23103	50.0000	41(Q)
	59 N-Nitrosodiphenylamine	169	15.239	15.239	(0.903)	89924	50.0000	49
$	60 2,4,6-Tribromophenol	330	15.455	15.455	(0.916)	20017	50.0000	48
	61 4-Bromophenyl-phenylether	248	15.984	15.984	(0.948)	39072	50.0000	48
	62 Hexachlorobenzene	284	16.071	16.071	(0.953)	41081	50.0000	49
	63 Pentachlorophenol	266	16.492	16.492	(0.978)	19634	50.0000	45
*	64 Phenanthrene-d10	188	16.870	16.870	(1.000)	140405	40.0000	
	65 Phenanthrene	178	16.913	16.913	(1.003)	179848	50.0000	50
	66 Anthracene	178	17.021	17.021	(1.009)	178999	50.0000	49
	67 Carbazole	167	17.366	17.366	(1.029)	153214	50.0000	50
	68 Di-n-butylphthalate	149	18.122	18.122	(1.074)	224259	50.0000	49
	69 Fluoranthene	202	19.342	19.342	(1.147)	199979	50.0000	49
	71 Pyrene	202	19.795	19.795	(0.889)	203011	50.0000	48
$	72 Terphenyl-d14	244	20.151	20.151	(0.905)	142633	50.0000	48
	73 Butylbenzylphthalate	149	21.177	21.177	(0.951)	95724	50.0000	48
	74 3,3'-Dichlorobenzidine	252	22.213	22.213	(0.998)	71517	50.0000	49
	75 Benzo(a)anthracene	228	22.235	22.235	(0.999)	194788	50.0000	48

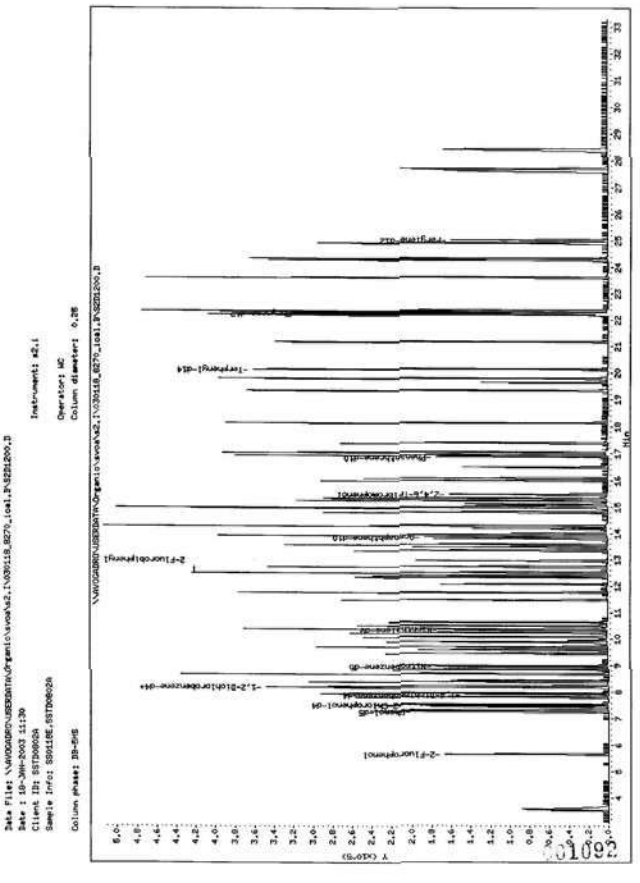
Data File: S2D1196.D
Report Date: 19-Jan-2003 10:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	76 Chrysene-d12	240	22.356	22.356	(1.000)	143477	40.0000	
	77 Chrysene	228	22.310	22.310	(1.002)	175154	50.0000	48
	78 bis(2-Ethylhexyl)phthalate	149	22.364	22.364	(1.005)	138658	50.0000	48
	79 Di-n-octylphthalate	149	23.616	23.616	(0.944)	246911	50.0000	50
	80 Benzo(b)fluoranthene	252	24.296	24.296	(0.971)	186158	50.0000	48
	81 Benzo(k)fluoranthene	252	24.340	24.340	(0.973)	156821	50.0000	48
	82 Benzo(a)pyrene	252	24.912	24.912	(0.996)	158308	50.0000	47
*	83 Perylene-d12	264	25.020	25.020	(1.000)	94078	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	27.611	27.611	(1.104)	178471	50.0000	48
	85 Dibenzo(a,h)anthracene	278	27.675	27.675	(1.106)	162599	50.0000	49
	86 Benzo(g,h,i)perylene	276	28.388	28.388	(1.135)	164570	50.0000	49

QC Flag Legend

Q - Qualifier signal failed the ratio test.

1/19/03



Data File: S2D1200.D
Report Date: 19-Jan-2003 10:29

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030118_8270_ical.B\S2D1200
Lab Smp Id: SS0118E Client Smp ID: SSTD0802A
Inj Date : 18-JAN-2003 11:30
Operator : WC Inst ID: s2.i
Smp Info : SS0118E,SSTD0802A
Misc Info : 1,4,SSTD080,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030118_8270_ical.B\s2_8270
Meth Date : 18-Jan-2003 13:56 mtl Quant Type: ISTD
Cal Date : 18-JAN-2003 11:30 Cal File: S2D1200.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 N-Nitrosodimethylamine	74	3.541	3.538	(0.447)	60795	80.0000	81
	97 Azobenzene	77	15.329	15.315	(0.908)	198057	80.0000	78
	2 Pyridine	79	3.584	3.581	(0.453)	105814	80.0000	78
$	3 2-Fluorophenol	112	5.656	5.653	(0.715)	103974	80.0000	78
$	5 Phenol-d5	99	7.265	7.251	(0.918)	126005	80.0000	78
	4 Phenol	94	7.257	7.253	(0.922)	139123	80.0000	76
	7 Aniline	93	7.330	7.316	(0.926)	145554	80.0000	76
	8 bis(2-Chloroethyl)Ether	93	7.448	7.445	(0.941)	98757	80.0000	77
$	9 2-Chlorophenol-d4	132	7.513	7.499	(0.950)	108386	80.0000	79
	10 2-Chlorophenol	128	7.535	7.532	(0.952)	111759	80.0000	78
	11 1,3-Dichlorobenzene	146	7.815	7.802	(0.988)	111057	80.0000	78
*	12 1,4-Dichlorobenzene-d4	152	7.913	7.910	(1.000)	41617	40.0000	
	13 1,4-Dichlorobenzene	146	7.945	7.942	(1.004)	117479	80.0000	78
	15 Benzyl Alcohol	108	8.182	8.169	(1.034)	68215	80.0000	78
$	14 1,2-Dichlorobenzene-d4	152	8.193	8.190	(1.035)	66836	80.0000	79
	16 1,2-Dichlorobenzene	146	8.226	8.212	(1.040)	104264	80.0000	78
	17 2-Methylphenol	108	8.388	8.374	(1.060)	96692	80.0000	78
	18 2,2'-oxybis(1-Chloropropane)	45	8.431	8.428	(1.065)	161206	80.0000	77
	20 4-Methylphenol	108	8.679	8.665	(1.097)	99775	80.0000	76
	19 N-Nitroso-di-n-propylamine	70	8.690	8.665	(1.098)	55959	80.0000	81
	21 Hexachloroethane	117	8.852	8.849	(1.119)	43059	80.0000	78
$	22 Nitrobenzene-d5	82	8.960	8.946	(0.866)	98678	80.0000	78
	23 Nitrobenzene	77	8.992	8.978	(0.870)	97591	80.0000	78
	24 Isophorone	82	9.456	9.443	(0.914)	175119	80.0000	78
	25 2-Nitrophenol	139	9.597	9.594	(0.928)	65697	80.0000	80
	26 2,4-Dimethylphenol	107	9.705	9.691	(0.938)	97024	80.0000	78

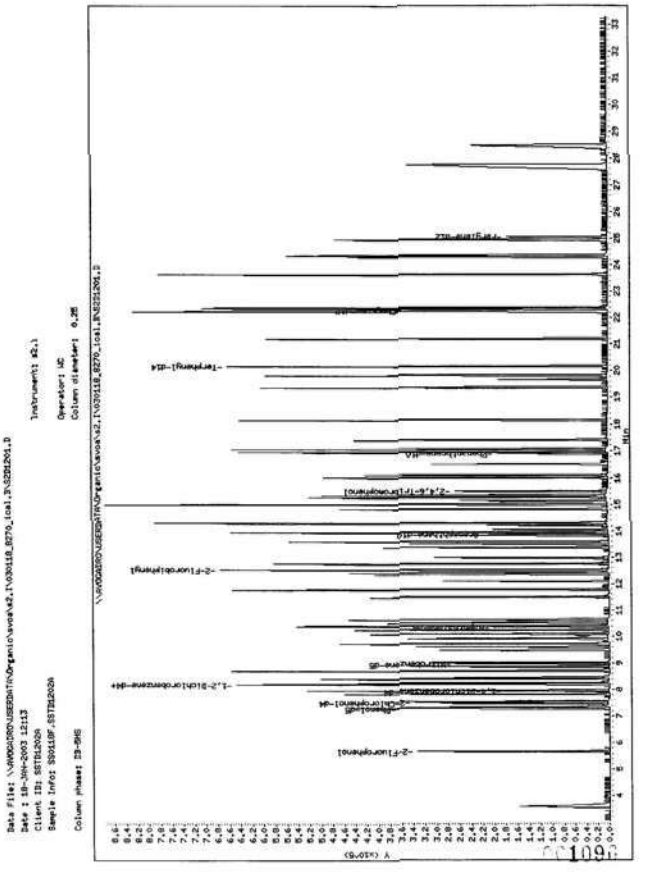
Data File: S2D1200.D
Report Date: 19-Jan-2003 10:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	28 Benzoic Acid	105	9.953	9.936	(0.962)	53848	80.0000	87
	27 bis(2-Chloroethoxy)methane	93	9.888	9.885	(0.966)	113234	80.0000	78
	29 2,4-Dichlorophenol	162	10.072	10.058	(0.974)	85732	80.0000	80
	30 1,2,4-Trichlorobenzene	180	10.234	10.220	(0.990)	90032	80.0000	78
*	31 Naphthalene-d8	136	10.341	10.328	(1.000)	140235	40.0000	
	32 Naphthalene	128	10.385	10.371	(1.004)	283778	80.0000	78
	33 4-Chloroaniline	127	10.501	10.490	(1.016)	121352	80.0000	79
	34 Hexachlorobutadiene	225	10.633	10.619	(1.028)	50175	80.0000	80
	35 4-Chloro-3-Methylphenol	107	11.486	11.472	(1.111)	85447	80.0000	78
	36 2-Methylnaphthalene	142	11.766	11.753	(1.138)	191043	80.0000	78
	38 Hexachlorocyclopentadiene	237	12.069	12.066	(0.871)	46853	80.0000	90
	39 2,4,6-Trichlorophenol	196	12.339	12.325	(0.890)	64319	80.0000	81
	40 2,4,5-Trichlorophenol	196	12.414	12.400	(0.896)	70722	80.0000	83
$	41 2-Fluorobiphenyl	172	12.511	12.508	(0.903)	205535	80.0000	79
	42 2-Chloronaphthalene	162	12.738	12.735	(0.919)	171451	80.0000	80
	43 2-Nitroaniline	65	12.965	12.951	(0.935)	54589	80.0000	79
	44 Dimethylphthalate	163	13.364	13.350	(0.964)	211753	80.0000	80
	45 2,6-Dinitrotoluene	165	13.481	13.458	(0.973)	55562	80.0000	80
	46 Acenaphthylene	152	13.569	13.566	(0.979)	287220	80.0000	80
	47 3-Nitroaniline	138	13.807	13.793	(0.996)	57610	80.0000	79
*	48 Acenaphthene-d10	164	13.861	13.847	(1.000)	76381	40.0000	
	49 Acenaphthene	153	13.925	13.922	(1.005)	177888	80.0000	79
	50 2,4-Dinitrophenol	184	14.023	14.009	(1.012)	29393	80.0000	110
	51 4-Nitrophenol	109	14.185	14.171	(1.023)	24223	80.0000	82
	53 2,4-Dinitrotoluene	165	14.293	14.268	(1.031)	69854	80.0000	80
	52 Dibenzofuran	168	14.282	14.268	(1.030)	252818	80.0000	80
	54 Diethylphthalate	149	14.396	14.396	(1.040)	209955	80.0000	80
	55 Fluorene	166	14.983	14.970	(1.081)	199422	80.0000	80
	56 4-Chlorophenyl-phenylether	204	14.994	14.991	(1.082)	103998	80.0000	80
	57 4-Nitroaniline	138	15.059	15.034	(1.086)	57051	80.0000	78
	58 4,6-Dinitro-2-methylphenol	198	15.124	15.099	(0.896)	49004	80.0000	92
	59 N-Nitrosodiphenylamine	169	15.253	15.239	(0.903)	143052	80.0000	79
$	60 2,4,6-Tribromophenol	330	15.469	15.455	(0.916)	33638	80.0000	83
	61 4-Bromophenyl-phenylether	248	15.987	15.984	(0.947)	62600	80.0000	79
	62 Hexachlorobenzene	284	16.085	16.071	(0.953)	66923	80.0000	81
	63 Pentachlorophenol	266	16.506	16.492	(0.978)	35689	80.0000	86
*	64 Phenanthrene-d10	188	16.883	16.870	(1.000)	139410	40.0000	
	65 Phenanthrene	178	16.927	16.913	(1.003)	279182	80.0000	79
	66 Anthracene	178	17.034	17.021	(1.009)	283914	80.0000	78
	67 Carbazole	167	17.380	17.366	(1.029)	223666	80.0000	73
	68 Di-n-butylphthalate	149	18.136	18.122	(1.074)	359263	80.0000	79
	69 Fluoranthene	202	19.355	19.342	(1.146)	318566	80.0000	79
	71 Pyrene	202	19.809	19.795	(0.885)	322003	80.0000	80
$	72 Terphenyl-d14	244	20.154	20.151	(0.905)	225554	80.0000	80
	73 Butylbenzylphthalate	149	21.191	21.177	(0.952)	152781	80.0000	80
	74 3,3'-Dichlorobenzidine	252	22.227	22.213	(0.998)	104474	80.0000	75
	75 Benzo(a)anthracene	228	22.249	22.235	(0.999)	301165	80.0000	79

Data File: S2D1200.D
Report Date: 19-Jan-2003 10:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	76 Chrysene-d12	240	22.270	22.256	(1.000)	136618	40.0000	
	77 Chrysene	228	22.324	22.310	(1.002)	275606	80.0000	80
	78 bis(2-Ethylhexyl)phthalate	149	22.367	22.364	(1.004)	219342	80.0000	80
	79 Di-n-octylphthalate	149	23.630	23.616	(0.944)	319050	80.0000	79
	80 Benzo(b)fluoranthene	252	24.300	24.286	(0.971)	293598	80.0000	77
	81 Benzo(k)fluoranthene	252	24.354	24.340	(0.973)	254293	80.0000	80
	82 Benzo(a)pyrene	252	24.926	24.912	(0.996)	263325	80.0000	80
*	83 Perylene-d12	264	25.034	25.020	(1.000)	93570	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	27.635	27.611	(1.104)	291297	80.0000	80
	85 Dibenz(a,h)anthracene	278	27.700	27.675	(1.107)	262167	80.0000	80
	86 Benzo(g,h,i)perylene	276	28.434	28.388	(1.136)	263129	80.0000	79

1/17/03



Data File: S2D1201.D
Report Date: 19-Jan-2003 10:29

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030118_8270_ical.B\S2D1201
Lab Smp Id: SS0118P
Client Smp ID: SSTD1202A
Inj Date : 18-JAN-2003 12:13
Operator : WC
Inst ID: s2.i
Smp Info : SS0118P,SSTD1202A
Misc Info : 1,5,SSTD120,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030118_8270_ical.B\s2_8270
Meth Date : 18-Jan-2003 13:56 mtl
Quant Type: ISTD
Cal Date : 18-JAN-2003 12:13
Cal File: S2D1201.D
Als bottle: 7
Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	1 N-Nitrosodimethylamine	74	1.562	1.536	(0.448)	304288	120.000	120
	37 Azobenzene	77	15.335	15.335	(0.908)	174780	120.000	120
	2 Pyridine	79	1.606	1.587	(0.484)	187160	120.000	120
S	3 2-Fluorophenol	112	5.673	5.653	(0.756)	342529	120.000	120
S	5 Phenol-d5	99	7.297	7.254	(0.970)	721004	120.000	120
	6 Phenol	94	7.318	7.287	(0.972)	244614	120.000	120
	7 Aniline	93	7.351	7.316	(0.977)	243808	120.000	110
	8 Bis(2-Chloroethyl)Ether	93	7.480	7.445	(0.943)	172295	120.000	120
S	9 2-Chlorophenol-d4	132	7.523	7.493	(0.948)	389171	120.000	120
	10 2-Chlorophenol	128	7.554	7.532	(0.952)	293804	120.000	120
	11 1,3-Dichlorobenzene	146	7.826	7.802	(0.986)	194671	120.000	120
*	12 1,4-Dichlorobenzene-d4	152	7.934	7.910	(1.000)	42231	40.0000	
	13 1,4-Dichlorobenzene	146	7.966	7.942	(1.004)	264028	120.000	120
	15 Benzyl Alcohol	108	8.203	8.168	(1.034)	119793	120.000	120
S	14 1,2-Dichlorobenzene-d4	152	8.216	8.190	(1.038)	151524	120.000	120
	16 1,2-Dichlorobenzene	146	8.249	8.213	(1.039)	178806	120.000	120
	17 2-Methylphenol	108	8.405	8.374	(1.060)	165782	120.000	120
	18 2,2'-oxybis(1-Chloropropane)	45	8.452	8.428	(1.065)	274197	120.000	120
	20 4-Methylphenol	108	8.711	8.665	(1.098)	172853	120.000	120
	19 N-Nitroso-di-n-propylamine	70	8.721	8.666	(1.099)	54518	120.000	120
	21 Hexachloroethane	117	8.863	8.849	(1.117)	74778	120.000	120
S	22 Nitrobenzene-d5	82	8.881	8.866	(0.868)	176162	120.000	120
	23 Nitrobenzene	77	9.026	8.978	(0.879)	167822	120.000	120
	24 Isophorone	82	9.488	9.443	(0.917)	284276	120.000	120
	25 2-Nitrophenol	139	9.818	9.534	(0.923)	119781	120.000	120
	26 2,4-Dimethylphenol	107	9.726	9.691	(0.940)	186798	120.000	120

1096A

Data File: S2D1201.D
Report Date: 19-Jan-2003 10:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	27 Benzoic Acid	105	10.038	9.694	(0.970)	102848	120.000	140
	29 Bis(2-Chloroethoxy)methane	93	9.988	9.945	(0.957)	276521	120.000	120
	28 2,4-Dichlorophenol	162	10.091	09.978	(0.975)	163543	120.000	120
	30 1,2,4-Trichlorobenzene	180	10.244	10.220	(0.990)	157964	120.000	120
*	31 Naphthalene-d8	136	10.352	10.328	(1.000)	153999	40.0000	
	32 Naphthalene	128	10.406	10.371	(1.006)	491455	120.000	130
	33 4-Chloroaniline	127	10.524	10.496	(1.017)	210211	120.000	120
	34 Hexachlorobutadiene	225	10.643	10.619	(1.028)	88699	120.000	120
	36 4-Chloro-3-Methylphenol	107	11.496	11.472	(1.111)	149508	120.000	120
	35 2-Methylnaphthalene	142	11.737	11.753	(1.138)	329865	120.000	130
	38 Hexachlorocyclopentadiene	237	12.036	12.008	(0.872)	97559	120.000	140
	39 2,4,6-Trichlorophenol	196	12.249	12.225	(0.890)	113855	120.000	120
	40 2,4,5-Trichlorophenol	196	12.424	12.400	(0.886)	116861	120.000	120
#	41 2-Fluorobiphenyl	172	17.532	17.508	(0.903)	357716	120.000	120
	42 2-Chloronaphthalene	162	12.758	12.738	(0.920)	292363	120.000	120
	43 2-Nitroaniline	65	12.986	12.961	(0.936)	94953	120.000	120
	44 Dimethylphthalate	163	13.785	13.760	(0.963)	366990	120.000	120
	45 2,6-Dinitrotoluene	165	13.884	13.838	(0.974)	92916	120.000	120
	48 Acenaphthylene	152	13.990	13.966	(0.980)	693176	120.000	120
	47 3-Nitroaniline	138	13.838	13.793	(0.998)	101618	120.000	120
*	48 Acenaphthene-d10	164	17.691	13.847	(1.000)	86252	40.0000	
	49 Acenaphthene	153	13.846	13.827	(1.006)	307059	120.000	120
	50 2,4-Dinitrophenol	184	14.044	14.009	(1.012)	62992	120.000	180(M)
	51 4-Nitrophenol	109	14.216	14.171	(1.025)	84583	120.000	130
	52 2,4-Dinitrotoluene	165	14.213	14.188	(1.032)	128681	120.000	130
	53 Dibenzofuran	168	14.303	14.268	(1.031)	628016	120.000	120
	54 Diethylphthalate	149	14.821	14.796	(1.068)	362299	120.000	120
	55 Fluorene	166	14.936	14.870	(1.081)	521807	120.000	120
	56 4-Chlorophenyl-phenylether	204	15.015	14.991	(1.092)	178222	120.000	120
	57 4-Nitroaniline	138	15.101	15.014	(1.093)	170066	120.000	120
	58 4,6-Dinitro-2-methylphenol	198	15.166	15.099	(0.859)	92634	120.000	140
	59 N-Nitrosodiphenylamine	169	15.274	15.239	(0.904)	244154	120.000	120
S	60 2,4,6-Tribromophenol	330	15.490	15.455	(0.917)	99006	120.000	130
	61 4-Bromophenyl-phenylether	248	16.008	15.984	(0.948)	209237	120.000	120
	63 Hexachlorobenzene	284	16.109	16.091	(0.955)	216871	120.000	120
	62 Pentachlorophenol	266	16.115	16.058	(0.976)	69267	120.000	140
*	64 Phenanthrene-d10	188	16.895	16.870	(1.000)	796874	40.0000	
	65 Phenanthrene	178	16.947	16.913	(1.003)	483327	110.000	120
	66 Anthracene	178	17.053	17.021	(1.010)	486374	120.000	130
	67 Carbazole	167	17.401	17.366	(1.030)	408883	120.000	120
	68 Di-n-butylphthalate	149	18.187	18.122	(1.075)	618291	120.000	130
	69 Fluoranthene	202	19.344	19.342	(1.146)	556147	110.000	130
	71 Pyrene	202	19.810	19.758	(0.650)	550454	120.000	120
S	72 Terphenyl-d14	244	20.175	20.152	(0.905)	389428	120.000	120
	73 Butylbenzylphthalate	149	21.261	21.177	(0.951)	269429	120.000	120
	76 3,3'-Dichlorobenzidine	252	22.746	22.213	(0.998)	193881	120.000	120
	75 Benzo(a)anthracene	228	22.269	22.235	(0.999)	628226	120.000	120

1097

Data File: S2D1201.D
Report Date: 19-Jan-2003 10:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	76 Chrysene-d12	240	22.351	22.356	(1.000)	156721	40.0000	
	77 Chrysene	228	22.356	22.310	(1.003)	486578	120.000	120
	78 Bis(2-Ethylhexyl)phthalate	149	22.388	22.356	(1.004)	390413	120.000	130
	79 Di-n-octylphthalate	149	23.640	23.614	(0.944)	681775	120.000	130
	80 Benzo(b)fluoranthene	252	24.331	24.286	(0.957)	825672	120.000	120
	81 Benzo(k)fluoranthene	252	24.376	24.340	(0.933)	659858	120.000	130
	82 Benzo(a)pyrene	252	24.557	24.513	(0.956)	668456	120.000	120
*	83 Perylene-d12	264	25.029	25.020	(1.000)	108693	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	27.678	27.611	(1.105)	529559	120.000	130(M)
	85 Dibenz(a,h)anthracene	278	27.763	27.676	(1.108)	464332	120.000	120
	86 Benzo(g,h,i)perylene	276	28.487	28.388	(1.137)	466063	120.000	130

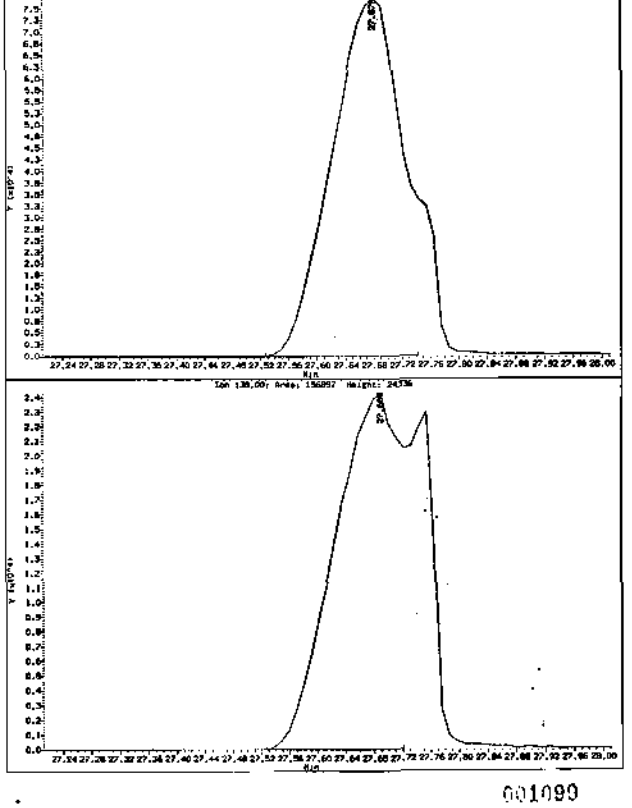
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

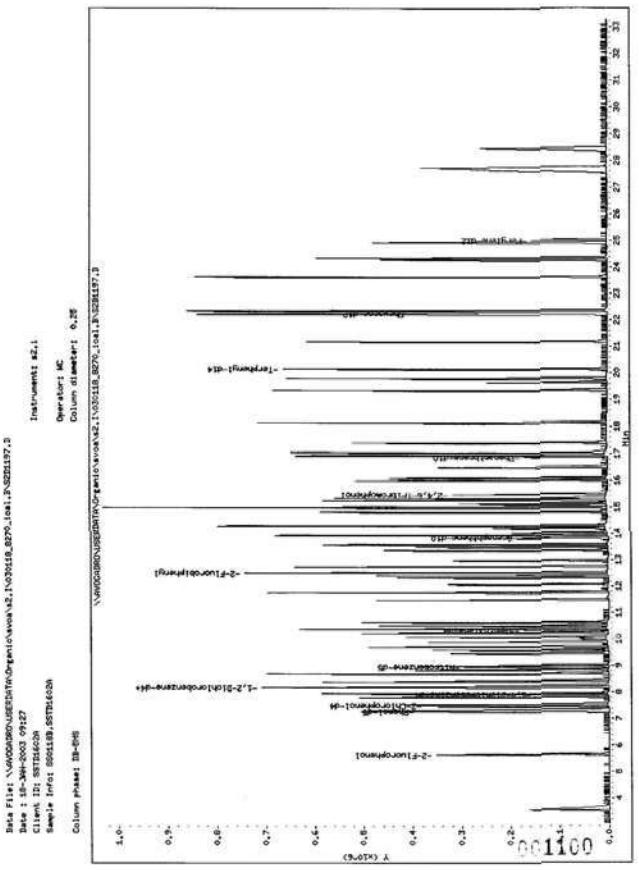
1098

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030118_8270_ical.B\S2D1201.D
Injection Date: 18-JAN-2003 12:13
Instrument: s2.i
Client Sample ID: SSTD1202A

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5



1099



Data File: S2D1197.D
Report Date: 19-Jan-2003 10:28

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030118_8270_ical.B\S2D1197
Lab Smp Id: SS0118B Client Smp ID: SSTD1602A
Inj Date : 18-JAN-2003 09:27
Operator : WC Inst ID: s2.i
Smp Info : SS0118B,SSTD1602A
Misc Info : 1,6,SSTD160,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030118_8270_ical.B\s2_8270
Meth Date : 18-Jan-2003 13:56 mtl Quant Type: ISTD
Cal Date : 18-JAN-2003 09:27 Cal File: S2D1197.D
Als bottle: 3 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	1 N-Nitrosodimethylamine	74	3.551	3.538	(0.448)	118655	160.000	160
	97 Azobenzene	77	15.339	15.315	(0.909)	380727	160.000	160
	2 Pyridine	79	3.583	3.581	(0.452)	212852	160.000	160
$	3 2-Fluorophenol	112	5.667	5.653	(0.715)	206343	160.000	160
$	5 Phenol-d5	99	7.286	7.251	(0.920)	247869	160.000	160
	6 Phenol	94	7.307	7.283	(0.922)	275869	160.000	160
	7 Aniline	93	7.340	7.316	(0.926)	295838	160.000	160
	8 bis(2-Chloroethyl)Ether	93	7.469	7.445	(0.943)	192525	160.000	160
$	9 2-Chlorophenol-d4	132	7.523	7.499	(0.950)	208395	160.000	160
	10 2-Chlorophenol	128	7.556	7.532	(0.954)	215066	160.000	160
	11 1,3-Dichlorobenzene	146	7.815	7.802	(0.986)	214150	160.000	160
>	12 1,4-Dichlorobenzene-d4	152	7.920	7.910	(1.000)	91284	40.0000	
	13 1,4-Dichlorobenzene	146	7.955	7.942	(1.004)	225074	160.000	160
	15 Benzyl Alcohol	108	8.183	8.169	(1.034)	132373	160.000	160
$	14 1,2-Dichlorobenzene-d4	152	8.203	8.190	(1.035)	124611	160.000	150
	16 1,2-Dichlorobenzene	146	8.236	8.212	(1.040)	199252	160.000	160
	17 2-Methylphenol	108	8.398	8.374	(1.060)	187112	160.000	160
	18 2,2'-oxybis(1-Chloropropane)	45	8.441	8.428	(1.065)	315511	160.000	160
	20 4-Methylphenol	108	8.700	8.665	(1.098)	192918	160.000	150
	19 N-Nitroso-di-n-propylamine	70	8.700	8.665	(1.098)	90639	160.000	140
	21 Hexachloroethane	117	8.851	8.849	(1.117)	83284	160.000	160
$	22 Nitrobenzene-d5	82	8.970	8.946	(0.867)	193684	160.000	160
	23 Nitrobenzene	77	9.013	8.978	(0.872)	190386	160.000	160
	24 Isophorone	82	9.477	9.443	(0.916)	346672	160.000	160
	25 2-Nitrophenol	139	9.607	9.594	(0.929)	127154	160.000	160(A)
	26 2,4-Dimethylphenol	107	9.715	9.691	(0.939)	187944	160.000	160(A)

Data File: S2D1197.D
Report Date: 19-Jan-2003 10:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	28 Benzoic Acid	105	10.028	9.896	(0.970)	110898	160.000	180(A)
	27 bis(2-Chloroethoxy)methane	93	9.898	9.885	(0.957)	220924	160.000	160(A)
	29 2,4-Dichlorophenol	162	10.093	10.058	(0.976)	166393	160.000	160(A)
	30 1,2,4-Trichlorobenzene	180	10.233	10.220	(0.990)	174350	160.000	160(A)
*	31 Naphthalene-d8	136	10.341	10.328	(1.000)	135961	40.0000	
	32 Naphthalene	128	10.395	10.371	(1.005)	557792	160.000	160(A)
	33 4-Chloroaniline	127	10.514	10.490	(1.017)	238701	160.000	160
	34 Hexachlorobutadiene	225	10.632	10.619	(1.028)	97504	160.000	160(A)
	35 4-Chloro-3-Methylphenol	107	11.496	11.472	(1.112)	169603	160.000	160
	36 2-Methylnaphthalene	142	11.766	11.753	(1.138)	369644	160.000	160
	38 Hexachlorocyclopentadiene	237	12.079	12.066	(0.871)	96898	160.000	180(A)
	39 2,4,6-Trichlorophenol	196	12.349	12.325	(0.891)	128128	160.000	160(A)
	40 2,4,5-Trichlorophenol	196	12.433	12.400	(0.896)	131774	160.000	160(A)
$	41 2-Fluorobiphenyl	172	12.521	12.508	(0.903)	403047	160.000	160(A)
	42 2-Chloronaphthalene	162	12.748	12.735	(0.920)	332656	160.000	160(A)
	43 2-Nitroaniline	65	12.986	12.951	(0.937)	108700	160.000	160(A)
	44 Dimethylphthalate	163	13.374	13.350	(0.965)	407631	160.000	160(A)
	45 2,6-Dinitrotoluene	165	13.493	13.458	(0.974)	108312	160.000	160(A)
	46 Acenaphthylene	152	13.579	13.566	(0.980)	557318	160.000	160(A)
	47 3-Nitroaniline	138	13.828	13.793	(0.998)	114201	160.000	160(A)
*	48 Acenaphthene-d10	164	13.860	13.847	(1.000)	74747	40.0000	
	49 Acenaphthene	153	13.936	13.922	(1.005)	362642	160.000	160(A)
	50 2,4-Dinitrophenol	184	14.033	14.009	(1.012)	63703	160.000	220(A)
	51 4-Nitrophenol	109	14.205	14.171	(1.025)	49919	160.000	170(A)
	53 2,4-Dinitrotoluene	165	14.303	14.268	(1.032)	138472	160.000	160(A)
	52 Dibenzofuran	168	14.292	14.268	(1.031)	483564	160.000	160(A)
	54 Diethylphthalate	149	14.821	14.786	(1.069)	409379	160.000	160(A)
	55 Fluorene	166	14.994	14.970	(1.082)	382196	160.000	160(A)
	56 4-Chlorophenyl-phenylether	204	15.004	14.991	(1.083)	199859	160.000	160(A)
	57 4-Nitroaniline	138	15.101	15.034	(1.090)	119240	160.000	160(A)
	58 4,6-Dinitro-2-methylphenol	198	15.145	15.099	(0.897)	98128	160.000	190(A)
	59 N-Nitrosodiphenylamine	169	15.263	15.239	(0.906)	282219	160.000	160(A)
$	60 2,4,6-Tribromophenol	330	15.479	15.455	(0.917)	64950	160.000	160(A)
	61 4-Bromophenyl-phenylether	248	15.997	15.984	(0.948)	123276	160.000	160(A)
	62 Hexachlorobenzene	284	16.095	16.071	(0.953)	128884	160.000	160(A)
	63 Pentachlorophenol	266	16.505	16.492	(0.978)	79281	160.000	180(A)
*	64 Phenanthrene-d10	188	16.883	16.870	(1.000)	133442	40.0000	
	65 Phenanthrene	178	16.937	16.913	(1.002)	544288	160.000	160
	66 Anthracene	178	17.045	17.021	(1.010)	542453	160.000	160
	67 Carbazole	167	17.330	17.346	(1.020)	470972	160.000	160(A)
	68 Di-n-butylphthalate	149	18.146	18.122	(1.075)	693542	160.000	160(A)
	69 Fluoranthene	202	19.366	19.342	(1.147)	612801	160.000	160(A)
	71 Pyrene	202	19.819	19.795	(0.890)	619302	160.000	160(A)
$	72 Terphenyl-d14	244	20.164	20.151	(0.905)	435238	160.000	160(A)
	73 Butylbenzylphthalate	149	21.190	21.177	(0.951)	296741	160.000	160(A)
	74 3,3'-Dichlorobenzidine	252	22.237	22.213	(0.998)	215132	160.000	160(A)
	75 Benzo(a)anthracene	228	22.259	22.235	(0.999)	594727	160.000	160(A)

Data File: S2D1197.D
Report Date: 19-Jan-2003 10:28

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	76 Chrysene-d12	240	22.280	22.256	(1.000)	131863	40.0000	
	77 Chrysene	228	22.345	22.310	(1.003)	538267	160.000	160(A)
	78 bis(2-Ethylhexyl)phthalate	149	22.377	22.364	(1.004)	426257	160.000	160(A)
	79 Di-n-octylphthalate	149	23.640	23.616	(0.944)	757740	160.000	160(A)
	80 Benzo(b)fluoranthene	252	24.321	24.286	(0.971)	625845	160.000	170(A)
	81 Benzo(k)fluoranthene	252	24.375	24.340	(0.973)	483701	160.000	160(A)
	82 Benzo(a)pyrene	252	24.947	24.912	(0.996)	525498	160.000	170(A)
*	83 Perylene-d12	264	25.044	25.020	(1.000)	89994	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	27.667	27.611	(1.105)	601314	160.000	170(A)
	85 Dibenzo(a,h)anthracene	278	27.753	27.675	(1.108)	511999	160.000	160(A)
	86 Benzo(g,h,i)perylene	276	28.487	28.388	(1.138)	520273	160.000	160(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

1/21/03

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: S2 Calibration Date: 12/26/02 Time: 1526

Lab File ID: S2D0813 Init. Calib. Date(s): 12/19/02 12/19/02

Init. Calib. Times: 0052 0439

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.955	1.808	0.050	-7.5	20.0
bis(2-Chloroethyl)Ether	1.528	1.384	0.050	-9.4	100
2-Chlorophenol	1.465	1.363	0.050	-7.0	100
1,3-Dichlorobenzene	1.427	1.349	0.050	-5.5	100
1,4-Dichlorobenzene	1.472	1.408	0.050	-4.3	20.0
1,2-Dichlorobenzene	1.330	1.289	0.050	-3.1	100
2-Methylphenol	1.315	1.202	0.050	-8.6	100
2,2'-oxybis(1-Chloropropane)	2.433	2.256	0.050	-7.3	100
4-Methylphenol	1.460	1.283	0.050	-12.1	100
N-Nitroso-di-n-propylamine	0.860	0.821	0.050	-4.5	100
Hexachloroethane	0.560	0.530	0.050	-5.4	100
Nitrobenzene	0.390	0.354	0.050	-9.2	100
Isophorone	0.743	0.669	0.050	-10.0	100
2-Nitrophenol	0.243	0.220	0.050	-9.5	20.0
2,4-Dimethylphenol	0.353	0.307	0.050	-13.0	100
2,4-Dichlorophenol	0.309	0.282	0.050	-8.7	20.0
1,2,4-Trichlorobenzene	0.319	0.308	0.050	-3.4	100
Naphthalene	1.038	0.995	0.050	-4.1	100
4-Chloroaniline	0.437	0.372	0.050	-14.9	100
bis(2-Chloroethoxy)methane	0.483	0.440	0.050	-8.9	100
Hexachlorobutadiene	0.155	0.150	0.050	-3.2	20.0
4-Chloro-3-Methylphenol	0.311	0.301	0.050	-3.2	20.0
2-Methylnaphthalene	0.663	0.643	0.050	-3.0	100
Hexachlorocyclopentadiene	*0.312*	*0.211*	*0.050*	*-32.4*	*100*
2,4,6-Trichlorophenol	0.423	0.396	0.050	-6.4	100
2,4,5-Trichlorophenol	0.440	0.435	0.050	-1.1	100
2-Chloronaphthalene	1.136	1.088	0.050	-4.2	100
2-Nitroaniline	0.387	0.345	0.050	-10.8	100
Dimethylphthalate	1.389	1.292	0.050	-7.0	100
Acenaphthylene	1.880	1.762	0.050	-6.3	100
2,6-Dinitrotoluene	0.376	0.350	0.050	-6.9	100
3-Nitroaniline	0.377	0.296	0.050	-21.5	100
Acenaphthene	1.136	1.101	0.050	-3.1	20.0
2,4-Dinitrophenol	0.241	0.215	0.050	-10.8	100
4-Nitrophenol	0.134	0.118	0.050	-11.9	100
Dibenzofuran	1.659	1.551	0.050	-6.5	100
2,4-Dinitrotoluene	0.457	0.422	0.050	-7.6	100

All other compounds must meet a minimum RRF of 0.010.

FORM VII SV-1 OLM03.0

001104

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: S2 Calibration Date: 12/26/02 Time: 1526

Lab File ID: S2D0813 Init. Calib. Date(s): 12/19/02 12/19/02

Init. Calib. Times: 0052 0439

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.323	1.234	0.050	-6.7	100
4-Chlorophenyl-phenylether	0.599	0.574	0.050	-4.2	100
Fluorene	1.185	1.148	0.050	-3.1	100
4-Nitroaniline	0.308	0.231	0.050	-25.0	100
4,6-Dinitro-2-methylphenol	0.206	0.192	0.050	-6.8	100
N-Nitrosodiphenylamine(1)	0.530	0.482	0.050	-9.0	20.0
4-Bromophenyl-phenylether	0.230	0.216	0.050	-6.1	100
Hexachlorobenzene	0.249	0.242	0.050	-2.8	100
Pentachlorophenol	0.180	0.163	0.050	-9.4	20.0
Phenanthrene	1.052	1.008	0.050	-4.2	100
Anthracene	1.050	0.988	0.050	-5.9	100
Carbazole	0.701	0.640	0.050	-8.7	100
Di-n-butylphthalate	1.362	1.299	0.050	-4.6	100
Fluoranthene	1.113	1.050	0.050	-5.7	20.0
Pyrene	1.455	1.406	0.050	-3.4	100
Butylbenzylphthalate	0.732	0.682	0.050	-6.8	100
3,3'-Dichlorobenzidine	0.440	0.342	0.050	-22.3	100
Benzo(a)anthracene	1.176	1.156	0.050	-1.7	100
Chrysene	1.157	1.058	0.050	-8.6	100
bis(2-Ethylhexyl)phthalate	0.897	0.917	0.050	2.2	100
Di-n-octylphthalate	2.785	2.848	0.050	2.3	20.0
Benzo(b)fluoranthene	1.959	1.914	0.050	-2.3	100
Benzo(k)fluoranthene	1.728	1.652	0.050	-4.4	100
Benzo(a)pyrene	1.717	1.602	0.050	-6.7	20.0
Indeno(1,2,3-cd)pyrene	1.777	1.622	0.050	-8.7	100
Dibenzo(a,h)anthracene	1.617	1.520	0.050	-6.0	100
Benzo(g,h,i)perylene	1.630	1.495	0.050	-8.3	100
Nitrobenzene-d5	0.385	0.356	0.050	-7.5	100
2-Fluorobiphenyl	1.315	1.276	0.050	-3.0	100
Terphenyl-d14	0.990	0.938	0.050	-5.2	100
Phenol-d5	1.913	1.742	0.050	-8.9	100
2-Fluorophenol	1.522	1.397	0.050	-8.2	100
2,4,6-Tribromophenol	0.141	0.135	0.050	-4.2	100
2-Chlorophenol-d4	1.508	1.400	0.050	-7.2	100
1,2-Dichlorobenzene-d4	0.852	0.812	0.050	-4.7	100

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

FORM VII SV-2 OLM03.0

001105

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: S2 Calibration Date: 12/27/02 Time: 1032

Lab File ID: S2D0837 Init. Calib. Date(s): 12/19/02 12/19/02

Init. Calib. Times: 0052 0439

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.955	1.811	0.050	-7.4	20.0
bis(2-Chloroethyl)Ether	1.528	1.436	0.050	-6.0	100
2-Chlorophenol	1.465	1.378	0.050	-5.9	100
1,3-Dichlorobenzene	1.427	1.339	0.050	-6.2	100
1,4-Dichlorobenzene	1.472	1.413	0.050	-4.0	20.0
1,2-Dichlorobenzene	1.330	1.288	0.050	-3.2	100
2-Methylphenol	1.315	1.231	0.050	-6.4	100
2,2'-oxybis(1-Chloropropane)	2.433	2.366	0.050	-2.8	100
4-Methylphenol	1.460	1.320	0.050	-9.6	100
N-Nitroso-di-n-propylamine	0.860	0.758	0.050	-11.9	100
Hexachloroethane	0.560	0.538	0.050	-3.9	100
Nitrobenzene	0.390	0.357	0.050	-8.5	100
Isophorone	0.743	0.668	0.050	-10.1	100
2-Nitrophenol	0.243	0.215	0.050	-11.5	20.0
2,4-Dimethylphenol	0.353	0.298	0.050	-15.6	100
2,4-Dichlorophenol	0.309	0.284	0.050	-8.1	20.0
1,2,4-Trichlorobenzene	0.319	0.296	0.050	-7.2	100
Naphthalene	1.038	0.986	0.050	-5.0	100
4-Chloroaniline	0.437	0.394	0.050	-9.8	100
bis(2-Chloroethoxy)methane	0.483	0.437	0.050	-9.5	100
Hexachlorobutadiene	0.155	0.145	0.050	-6.4	20.0
4-Chloro-3-Methylphenol	0.311	0.305	0.050	-1.9	20.0
2-Methylnaphthalene	0.663	0.648	0.050	-2.3	100
Hexachlorocyclopentadiene	0.312	0.157	0.050	-49.7	100
2,4,6-Trichlorophenol	0.423	0.394	0.050	-6.8	100
2,4,5-Trichlorophenol	0.440	0.435	0.050	-1.1	100
2-Chloronaphthalene	1.136	1.093	0.050	-3.8	100
2-Nitroaniline	0.387	0.387	0.050	0.0	100
Dimethylphthalate	1.389	1.319	0.050	-5.0	100
Acenaphthylene	1.880	1.805	0.050	-4.0	100
2,6-Dinitrotoluene	0.376	0.356	0.050	-5.3	100
3-Nitroaniline	0.377	0.389	0.050	3.2	100
Acenaphthene	1.136	1.121	0.050	-1.3	20.0
2,4-Dinitrophenol	0.241	0.215	0.050	-10.8	100
4-Nitrophenol	0.134	0.135	0.050	0.7	100
Dibenzofuran	1.659	1.606	0.050	-3.2	100
2,4-Dinitrotoluene	0.457	0.449	0.050	-1.8	100

All other compounds must meet a minimum RRF of 0.010.

FORM VII SV-1 OLM03.0

001106

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: S2 Calibration Date: 12/27/02 Time: 1032

Lab File ID: S2D0837 Init. Calib. Date(s): 12/19/02 12/19/02

Init. Calib. Times: 0052 0439

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.323	1.303	0.050	-1.5	100
4-Chlorophenyl-phenylether	0.599	0.606	0.050	1.2	100
Fluorene	1.185	1.210	0.050	2.1	100
4-Nitroaniline	0.308	0.365	0.050	18.5	100
4,6-Dinitro-2-methylphenol	0.206	0.184	0.050	-10.7	100
N-Nitrosodiphenylamine(1)	0.530	0.512	0.050	-3.4	20.0
4-Bromophenyl-phenylether	0.230	0.207	0.050	-10.0	100
Hexachlorobenzene	0.249	0.226	0.050	-9.2	100
Pentachlorophenol	0.180	0.157	0.050	-12.8	20.0
Phenanthrene	1.052	0.998	0.050	-5.1	100
Anthracene	*1.050*	*0.982*	*0.050*	*-6.5*	*100*
Carbazole	0.701	0.872	0.050	24.4	100
Di-n-butylphthalate	1.362	1.328	0.050	-2.5	100
Fluoranthene	1.113	1.108	0.050	-0.4	20.0
Pyrene	1.455	1.268	0.050	-12.8	100
Butylbenzylphthalate	0.732	0.652	0.050	-10.9	100
3,3'-Dichlorobenzidine	0.440	0.432	0.050	-1.8	100
Benzo(a)anthracene	1.176	1.156	0.050	-1.7	100
Chrysene	1.157	1.038	0.050	-10.3	100
bis(2-Ethylhexyl)phthalate	0.897	0.918	0.050	2.3	100
Di-n-octylphthalate	2.785	2.789	0.050	0.1	20.0
Benzo(b)fluoranthene	1.959	1.891	0.050	-3.5	100
Benzo(k)fluoranthene	1.728	1.737	0.050	0.5	100
Benzo(a)pyrene	1.717	1.672	0.050	-2.6	20.0
Indeno(1,2,3-cd)pyrene	1.777	1.842	0.050	3.6	100
Dibenzo(a,h)anthracene	1.617	1.712	0.050	5.9	100
Benzo(g,h,i)perylene	1.630	1.699	0.050	4.2	100
Nitrobenzene-d5	0.385	0.359	0.050	-6.8	100
2-Fluorobiphenyl	1.315	1.285	0.050	-2.3	100
Terphenyl-d14	0.990	0.865	0.050	-12.6	100
Phenol-d5	1.913	1.783	0.050	-6.8	100
2-Fluorophenol	1.522	1.357	0.050	-10.8	100
2,4,6-Tribromophenol	0.141	0.124	0.050	-12.0	100
2-Chlorophenol-d4	1.508	1.408	0.050	-6.6	100
1,2-Dichlorobenzene-d4	0.852	0.823	0.050	-3.4	100

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

FORM VII SV-2 OLM03.0

001107

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: S2 Calibration Date: 01/03/03 Time: 1926

Lab File ID: S2D0943 Init. Calib. Date(s): 01/03/03 01/03/03

Init. Calib. Times: 1415 1747

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.874	1.829	0.050	-2.4	20.0
bis(2-Chloroethyl)Ether	1.404	1.403	0.050	-0.1	100
2-Chlorophenol	1.451	1.388	0.050	-4.3	100
1,3-Dichlorobenzene	1.426	1.338	0.050	-6.2	100
1,4-Dichlorobenzene	1.487	1.417	0.050	-4.7	20.0
1,2-Dichlorobenzene	1.344	1.311	0.050	-2.4	100
2-Methylphenol	1.258	1.240	0.050	-1.4	100
2,2'-oxybis(1-Chloropropane)	2.239	2.296	0.050	2.5	100
4-Methylphenol	1.378	1.343	0.050	-2.5	100
N-Nitroso-di-n-propylamine	0.744	0.731	0.050	-1.7	100
Hexachloroethane	0.547	0.521	0.050	-4.8	100
Nitrobenzene	0.386	0.353	0.050	-8.5	100
Isophorone	0.698	0.654	0.050	-6.3	100
2-Nitrophenol	0.245	0.219	0.050	-10.6	20.0
2,4-Dimethylphenol	0.339	0.281	0.050	-17.1	100
2,4-Dichlorophenol	0.317	0.289	0.050	-8.8	20.0
1,2,4-Trichlorobenzene	0.329	0.304	0.050	-7.6	100
Naphthalene	1.077	1.015	0.050	-5.8	100
4-Chloroaniline	0.439	0.377	0.050	-14.1	100
bis(2-Chloroethoxy)methane	0.457	0.437	0.050	-4.4	100
Hexachlorobutadiene	0.168	0.154	0.050	-8.3	20.0
4-Chloro-3-Methylphenol	0.320	0.309	0.050	-3.4	20.0
2-Methylnaphthalene	0.708	0.683	0.050	-3.5	100
Hexachlorocyclopentadiene	0.243	0.051	0.050	-79.0	100
2,4,6-Trichlorophenol	0.424	0.378	0.050	-10.8	100
2,4,5-Trichlorophenol	0.453	0.414	0.050	-8.6	100
2-Chloronaphthalene	1.157	1.084	0.050	-6.3	100
2-Nitroaniline	0.388	0.351	0.050	-9.5	100
Dimethylphthalate	1.435	1.348	0.050	-6.1	100
Acenaphthylene	1.922	1.750	0.050	-8.9	100
2,6-Dinitrotoluene	0.388	0.355	0.050	-8.5	100
3-Nitroaniline	0.424	0.378	0.050	-10.8	100
Acenaphthene	1.184	1.128	0.050	-4.7	20.0
2,4-Dinitrophenol	0.232	0.165	0.050	-28.9	100
4-Nitrophenol	0.152	0.129	0.050	-15.1	100
Dibenzofuran	1.665	1.592	0.050	-4.4	100
2,4-Dinitrotoluene	0.474	0.451	0.050	-4.8	100

All other compounds must meet a minimum RRF of 0.010.

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: S2 Calibration Date: 01/03/03 Time: 1926

Lab File ID: S2D0943 Init. Calib. Date(s): 01/03/03 01/03/03

Init. Calib. Times: 1415 1747

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.387	1.307	0.050	-5.8	100
4-Chlorophenyl-phenylether	0.630	0.623	0.050	-1.1	100
Fluorene	1.246	1.246	0.050	0.0	100
4-Nitroaniline	0.418	0.375	0.050	-10.3	100
4,6-Dinitro-2-methylphenol	0.202	0.169	0.050	-16.3	100
N-Nitrosodiphenylamine(1)	0.549	0.506	0.050	-7.8	20.0
4-Bromophenyl-phenylether	0.234	0.218	0.050	-6.8	100
Hexachlorobenzene	0.248	0.233	0.050	-6.0	100
Pentachlorophenol	0.156	0.133	0.050	-14.7	20.0
Phenanthrene	1.064	0.999	0.050	-6.1	100
Anthracene	1.049	0.958	0.050	-8.7	100
Carbazole	0.922	0.902	0.050	-2.2	100
Di-n-butylphthalate	1.390	1.321	0.050	-5.0	100
Fluoranthene	1.187	1.124	0.050	-5.3	20.0
Pyrene	1.334	1.219	0.050	-8.6	100
Butylbenzylphthalate	0.656	0.600	0.050	-8.5	100
3,3'-Dichlorobenzidine	0.434	0.384	0.050	-11.5	100
Benzo(a)anthracene	1.198	1.087	0.050	-9.3	100
Chrysene	1.049	0.985	0.050	-6.1	100
bis(2-Ethylhexyl)phthalate	0.878	0.863	0.050	-1.7	100
Di-n-octylphthalate	2.923	3.182	0.050	8.9	20.0
Benzo(b)fluoranthene	2.117	2.138	0.050	1.0	100
Benzo(k)fluoranthene	1.789	1.910	0.050	6.8	100
Benzo(a)pyrene	1.779	1.833	0.050	3.0	20.0
Indeno(1,2,3-cd)pyrene	1.881	1.928	0.050	2.5	100
Dibenzo(a,h)anthracene	1.709	1.869	0.050	9.4	100
Benzo(g,h,i)perylene	1.680	1.864	0.050	11.0	100
Nitrobenzene-d5	0.386	0.347	0.050	-10.1	100
2-Fluorobiphenyl	1.346	1.260	0.050	-6.4	100
Terphenyl-d14	0.928	0.849	0.050	-8.5	100
Phenol-d5	1.838	1.779	0.050	-3.2	100
2-Fluorophenol	1.439	1.256	0.050	-12.7	100
2,4,6-Tribromophenol	0.137	0.126	0.050	-8.0	100
2-Chlorophenol-d4	1.492	1.421	0.050	-4.8	100
1,2-Dichlorobenzene-d4	0.860	0.834	0.050	-3.0	100

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: S2 Calibration Date: 01/06/03 Time: 1158

Lab File ID: S2D0973 Init. Calib. Date(s): 01/03/03 01/03/03

Init. Calib. Times: 1415 1747

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.874	1.954	0.050	4.3	20.0
bis(2-Chloroethyl)Ether	1.404	1.428	0.050	1.7	100
2-Chlorophenol	1.451	1.521	0.050	4.8	100
1,3-Dichlorobenzene	1.426	1.516	0.050	6.3	100
1,4-Dichlorobenzene	1.487	1.581	0.050	6.3	20.0
1,2-Dichlorobenzene	1.344	1.411	0.050	5.0	100
2-Methylphenol	1.258	1.342	0.050	6.7	100
2,2'-oxybis(1-Chloropropane)	2.239	2.268	0.050	1.3	100
4-Methylphenol	1.378	1.412	0.050	2.5	100
N-Nitroso-di-n-propylamine	0.744	0.777	0.050	4.4	100
Hexachloroethane	0.547	0.573	0.050	4.8	100
Nitrobenzene	0.386	0.402	0.050	4.1	100
Isophorone	0.698	0.733	0.050	5.0	100
2-Nitrophenol	0.245	0.262	0.050	6.9	20.0
2,4-Dimethylphenol	0.339	0.388	0.050	14.4	100
2,4-Dichlorophenol	0.317	0.345	0.050	8.8	20.0
1,2,4-Trichlorobenzene	0.329	0.351	0.050	6.7	100
Naphthalene	1.077	1.149	0.050	6.7	100
4-Chloroaniline	0.439	0.510	0.050	16.2	100
bis(2-Chloroethoxy)methane	0.457	0.476	0.050	4.2	100
Hexachlorobutadiene	0.168	0.178	0.050	6.0	20.0
4-Chloro-3-Methylphenol	0.320	0.347	0.050	8.4	20.0
2-Methylnaphthalene	0.708	0.750	0.050	5.9	100
Hexachlorocyclopentadiene	0.243	0.323	0.050	32.9	100
2,4,6-Trichlorophenol	0.424	0.456	0.050	7.5	100
2,4,5-Trichlorophenol	0.453	0.494	0.050	9.0	100
2-Chloronaphthalene	1.157	1.228	0.050	6.1	100
2-Nitroaniline	0.388	0.398	0.050	2.6	100
Dimethylphthalate	1.435	1.466	0.050	2.2	100
Acenaphthylene	1.922	2.078	0.050	8.1	100
2,6-Dinitrotoluene	0.388	0.393	0.050	1.3	100
3-Nitroaniline	0.424	0.422	0.050	-0.5	100
Acenaphthene	1.184	1.244	0.050	5.1	20.0
2,4-Dinitrophenol	0.232	0.242	0.050	4.3	100
4-Nitrophenol	0.152	0.156	0.050	2.6	100
Dibenzofuran	1.665	1.778	0.050	6.8	100
2,4-Dinitrotoluene	0.474	0.499	0.050	5.3	100

All other compounds must meet a minimum RRF of 0.010.

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: S2 Calibration Date: 01/06/03 Time: 1158

Lab File ID: S2D0973 Init. Calib. Date(s): 01/03/03 01/03/03

Init. Calib. Times: 1415 1747

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.387	1.427	0.050	2.9	100
4-Chlorophenyl-phenylether	0.630	0.684	0.050	8.6	100
Fluorene	1.246	1.353	0.050	8.6	100
4-Nitroaniline	0.418	0.397	0.050	-5.0	100
4,6-Dinitro-2-methylphenol	0.202	0.211	0.050	4.4	100
N-Nitrosodiphenylamine(1)	0.549	0.580	0.050	5.6	20.0
4-Bromophenyl-phenylether	0.234	0.243	0.050	3.8	100
Hexachlorobenzene	0.248	0.260	0.050	4.8	100
Pentachlorophenol	0.156	0.146	0.050	-6.4	20.0
Phenanthrene	1.064	1.144	0.050	7.5	100
Anthracene	1.049	1.159	0.050	10.5	100
Carbazole	0.922	0.957	0.050	3.8	100
Di-n-butylphthalate	1.390	1.437	0.050	3.4	100
Fluoranthene	1.187	1.261	0.050	6.2	20.0
Pyrene	1.334	1.319	0.050	-1.1	100
Butylbenzylphthalate	0.656	0.649	0.050	-1.1	100
3,3'-Dichlorobenzidine	0.434	0.442	0.050	1.8	100
Benzo(a)anthracene	1.198	1.219	0.050	1.8	100
Chrysene	1.049	1.093	0.050	4.2	100
bis(2-Ethylhexyl)phthalate	0.878	0.901	0.050	2.6	100
Di-n-octylphthalate	2.923	2.350	0.050	-19.6	20.0
Benzo(b)fluoranthene	2.117	1.710	0.050	-19.2	100
Benzo(k)fluoranthene	1.789	1.516	0.050	-15.2	100
Benzo(a)pyrene	1.779	1.586	0.050	-10.8	20.0
Indeno(1,2,3-cd)pyrene	1.881	1.730	0.050	-8.0	100
Dibenzo(a,h)anthracene	1.709	1.577	0.050	-7.7	100
Benzo(g,h,i)perylene	1.680	1.569	0.050	-6.6	100
Nitrobenzene-d5	0.386	0.409	0.050	6.0	100
2-Fluorobiphenyl	1.346	1.457	0.050	8.2	100
Terphenyl-d14	0.928	0.905	0.050	-2.5	100
Phenol-d5	1.838	1.806	0.050	-1.7	100
2-Fluorophenol	1.439	1.461	0.050	1.5	100
2,4,6-Tribromophenol	0.137	0.134	0.050	-2.2	100
2-Chlorophenol-d4	1.492	1.474	0.050	-1.2	100
1,2-Dichlorobenzene-d4	0.860	0.900	0.050	4.6	100

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: S2 Calibration Date: 01/18/03 Time: 1449

Lab File ID: S2D1205 Init. Calib. Date(s): 01/18/03 01/18/03

Init. Calib. Times: 0845 1256

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.706	1.656	0.050	-2.9	20.0
bis(2-Chloroethyl)Ether	1.230	1.201	0.050	-2.4	100
2-Chlorophenol	1.376	1.366	0.050	-0.7	100
1,3-Dichlorobenzene	1.371	1.380	0.050	0.6	100
1,4-Dichlorobenzene	1.448	1.440	0.050	-0.6	20.0
1,2-Dichlorobenzene	1.279	1.282	0.050	0.2	100
2-Methylphenol	1.185	1.178	0.050	-0.6	100
2,2'-oxybis(1-Chloropropane)	1.997	1.921	0.050	-3.8	100
4-Methylphenol	1.247	1.211	0.050	-2.9	100
N-Nitroso-di-n-propylamine	0.665	0.675	0.050	1.5	100
Hexachloroethane	0.532	0.528	0.050	-0.8	100
Nitrobenzene	0.355	0.339	0.050	-4.5	100
Isophorone	0.642	0.626	0.050	-2.5	100
2-Nitrophenol	0.234	0.230	0.050	-1.7	20.0
2,4-Dimethylphenol	0.352	0.338	0.050	-4.0	100
2,4-Dichlorophenol	0.310	0.307	0.050	-1.0	20.0
1,2,4-Trichlorobenzene	0.329	0.317	0.050	-3.6	100
Naphthalene	1.039	1.004	0.050	-3.4	100
4-Chloroaniline	0.437	0.432	0.050	-1.1	100
bis(2-Chloroethoxy)methane	0.414	0.404	0.050	-2.4	100
Hexachlorobutadiene	0.179	0.176	0.050	-1.7	20.0
4-Chloro-3-Methylphenol	0.314	0.309	0.050	-1.6	20.0
2-Methylnaphthalene	0.696	0.678	0.050	-2.6	100
Hexachlorocyclopentadiene	0.287	0.289	0.050	0.7	100
2,4,6-Trichlorophenol	0.421	0.408	0.050	-3.1	100
2,4,5-Trichlorophenol	0.449	0.434	0.050	-3.3	100
2-Chloronaphthalene	1.127	1.092	0.050	-3.1	100
2-Nitroaniline	0.363	0.348	0.050	-4.1	100
Dimethylphthalate	1.392	1.350	0.050	-3.0	100
Acenaphthylene	1.889	1.808	0.050	-4.3	100
2,6-Dinitrotoluene	0.365	0.358	0.050	-1.9	100
3-Nitroaniline	0.383	0.373	0.050	-2.6	100
Acenaphthene	1.181	1.132	0.050	-4.1	20.0
2,4-Dinitrophenol	0.169	0.193	0.050	14.2	100
4-Nitrophenol	0.159	0.150	0.050	-5.7	100
Dibenzofuran	1.659	1.592	0.050	-4.0	100
2,4-Dinitrotoluene	0.458	0.443	0.050	-3.3	100

All other compounds must meet a minimum RRF of 0.010.

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: S2 Calibration Date: 01/18/03 Time: 1449

Lab File ID: S2D1205 Init. Calib. Date(s): 01/18/03 01/18/03

Init. Calib. Times: 0845 1256

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.378	1.326	0.050	-3.8	100
4-Chlorophenyl-phenylether	0.682	0.665	0.050	-2.5	100
Fluorene	1.308	1.262	0.050	-3.5	100
4-Nitroaniline	0.386	0.361	0.050	-6.5	100
4,6-Dinitro-2-methylphenol	0.166	0.176	0.050	6.0	100
N-Nitrosodiphenylamine(1)	0.522	0.510	0.050	-2.3	20.0
4-Bromophenyl-phenylether	0.229	0.224	0.050	-2.2	100
Hexachlorobenzene	0.239	0.235	0.050	-1.7	100
Pentachlorophenol	0.125	0.121	0.050	-3.2	20.0
Phenanthrene	1.029	1.015	0.050	-1.4	100
Anthracene	1.039	1.012	0.050	-2.6	100
Carbazole	0.872	0.806	0.050	-7.6	100
Di-n-butylphthalate	1.308	1.292	0.050	-1.2	100
Fluoranthene	1.164	1.125	0.050	-3.4	20.0
Pyrene	1.175	1.142	0.050	-2.8	100
Butylbenzylphthalate	0.559	0.550	0.050	-1.6	100
3,3'-Dichlorobenzidine	0.408	0.389	0.050	-4.6	100
Benzo(a)anthracene	1.118	1.074	0.050	-3.9	100
Chrysene	1.018	0.981	0.050	-3.6	100
bis(2-Ethylhexyl)phthalate	0.806	0.773	0.050	-4.1	100
Di-n-octylphthalate	2.111	2.028	0.050	-3.9	20.0
Benzo(b)fluoranthene	1.637	1.490	0.050	-9.0	100
Benzo(k)fluoranthene	1.384	1.313	0.050	-5.1	100
Benzo(a)pyrene	1.428	1.356	0.050	-5.0	20.0
Indeno(1,2,3-cd)pyrene	1.639	1.469	0.050	-10.4	100
Dibenzo(a,h)anthracene	1.419	1.374	0.050	-3.2	100
Benzo(g,h,i)perylene	1.435	1.377	0.050	-4.0	100
Nitrobenzene-d5	0.359	0.348	0.050	-3.1	100
2-Fluorobiphenyl	1.362	1.336	0.050	-1.9	100
Terphenyl-d14	0.822	0.790	0.050	-3.9	100
Phenol-d5	1.558	1.510	0.050	-3.1	100
2-Fluorophenol	1.279	1.260	0.050	-1.5	100
2,4,6-Tribromophenol	0.118	0.117	0.050	-0.8	100
2-Chlorophenol-d4	1.326	1.333	0.050	0.5	100
1,2-Dichlorobenzene-d4	0.814	0.818	0.050	0.5	100

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.

7B
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: S2 Calibration Date: 01/21/03 Time: 1124

Lab File ID: S2D1264 Init. Calib. Date(s): 01/18/03 01/18/03

Init. Calib. Times: 0845 1256

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Phenol	1.706	1.959	0.050	14.8	20.0
bis(2-Chloroethyl)Ether	1.230	1.386	0.050	12.7	100
2-Chlorophenol	1.376	1.551	0.050	12.7	100
1,3-Dichlorobenzene	1.371	1.543	0.050	12.5	100
1,4-Dichlorobenzene	1.448	1.592	0.050	9.9	20.0
1,2-Dichlorobenzene	1.279	1.454	0.050	13.7	100
2-Methylphenol	1.185	1.354	0.050	14.3	100
2,2'-oxybis(1-Chloropropane)	1.997	2.280	0.050	14.2	100
4-Methylphenol	1.247	1.410	0.050	13.1	100
N-Nitroso-di-n-propylamine	0.665	0.789	0.050	18.6	100
Hexachloroethane	0.532	0.600	0.050	12.8	100
Nitrobenzene	0.355	0.390	0.050	9.8	100
Isophorone	0.642	0.715	0.050	11.4	100
2-Nitrophenol	0.234	0.259	0.050	10.7	20.0
2,4-Dimethylphenol	*0.352*	*0.360*	*0.050*	*2.3*	*100*
2,4-Dichlorophenol	0.310	0.339	0.050	9.4	20.0
1,2,4-Trichlorobenzene	0.329	0.357	0.050	8.5	100
Naphthalene	1.039	1.142	0.050	9.9	100
4-Chloroaniline	0.437	0.475	0.050	8.7	100
bis(2-Chloroethoxy)methane	0.414	0.453	0.050	9.4	100
Hexachlorobutadiene	0.179	0.195	0.050	8.9	20.0
4-Chloro-3-Methylphenol	0.314	0.347	0.050	10.5	20.0
2-Methylnaphthalene	0.696	0.762	0.050	9.5	100
Hexachlorocyclopentadiene	0.287	0.297	0.050	3.5	100
2,4,6-Trichlorophenol	0.421	0.473	0.050	12.4	100
2,4,5-Trichlorophenol	0.449	0.483	0.050	7.6	100
2-Chloronaphthalene	1.127	1.239	0.050	9.9	100
2-Nitroaniline	0.363	0.410	0.050	12.9	100
Dimethylphthalate	1.392	1.521	0.050	9.3	100
Acenaphthylene	1.889	2.068	0.050	9.5	100
2,6-Dinitrotoluene	0.365	0.395	0.050	8.2	100
3-Nitroaniline	0.383	0.400	0.050	4.4	100
Acenaphthene	1.181	1.292	0.050	9.4	20.0
2,4-Dinitrophenol	0.169	0.228	0.050	34.9	100
4-Nitrophenol	0.159	0.178	0.050	11.9	100
Dibenzofuran	1.659	1.807	0.050	8.9	100
2,4-Dinitrotoluene	0.458	0.494	0.050	7.9	100

All other compounds must meet a minimum RRF of 0.010.

7C
SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

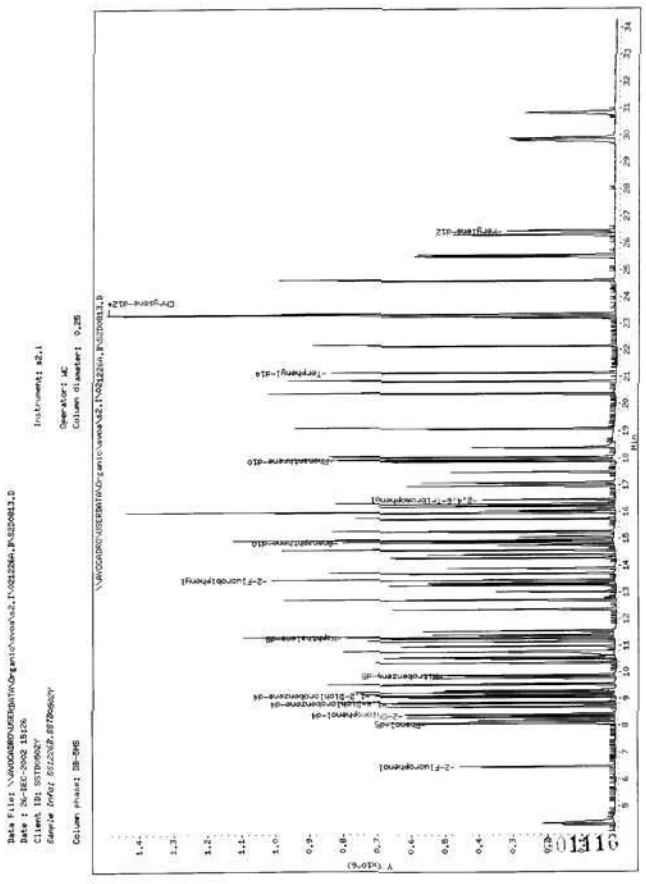
Instrument ID: S2 Calibration Date: 01/21/03 Time: 1124

Lab File ID: S2D1264 Init. Calib. Date(s): 01/18/03 01/18/03

Init. Calib. Times: 0845 1256

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Diethylphthalate	1.378	1.489	0.050	8.0	100
4-Chlorophenyl-phenylether	0.682	0.736	0.050	7.9	100
Fluorene	1.308	1.445	0.050	10.5	100
4-Nitroaniline	0.386	0.315	0.050	-18.4	100
4,6-Dinitro-2-methylphenol	0.166	0.201	0.050	21.1	100
N-Nitrosodiphenylamine(1)	0.522	0.574	0.050	10.0	20.0
4-Bromophenyl-phenylether	0.229	0.256	0.050	11.8	100
Hexachlorobenzene	0.239	0.262	0.050	9.6	100
Pentachlorophenol	0.125	0.147	0.050	17.6	20.0
Phenanthrene	1.029	1.144	0.050	11.2	100
Anthracene	1.039	1.150	0.050	10.7	100
Carbazole	0.872	0.802	0.050	-8.0	100
Di-n-butylphthalate	1.308	1.454	0.050	11.2	100
Fluoranthene	1.164	1.263	0.050	8.5	20.0
Pyrene	*1.175*	*1.347*	*0.050*	*14.6*	*100*
Butylbenzylphthalate	0.559	0.643	0.050	15.0	100
3,3'-Dichlorobenzidine	0.408	0.413	0.050	1.2	100
Benzo(a)anthracene	1.118	1.236	0.050	10.6	100
Chrysene	1.018	1.108	0.050	8.8	100
bis(2-Ethylhexyl)phthalate	0.806	0.888	0.050	10.2	100
Di-n-octylphthalate	2.111	2.506	0.050	18.7	20.0
Benzo(b)fluoranthene	1.637	1.797	0.050	9.8	100
Benzo(k)fluoranthene	1.384	1.631	0.050	17.8	100
Benzo(a)pyrene	1.428	1.615	0.050	13.1	20.0
Indeno(1,2,3-cd)pyrene	1.639	1.699	0.050	3.7	100
Dibenzo(a,h)anthracene	1.419	1.576	0.050	11.1	100
Benzo(g,h,i)perylene	1.435	1.584	0.050	10.4	100
Nitrobenzene-d5	0.359	0.396	0.050	10.3	100
2-Fluorobiphenyl	1.362	1.504	0.050	10.4	100
Terphenyl-d14	0.822	0.924	0.050	12.4	100
Phenol-d5	1.558	1.744	0.050	11.9	100
2-Fluorophenol	1.279	1.440	0.050	12.6	100
2,4,6-Tribromophenol	0.118	0.132	0.050	11.9	100
2-Chlorophenol-d4	1.326	1.504	0.050	13.4	100
1,2-Dichlorobenzene-d4	0.814	0.909	0.050	11.7	100

(1) Cannot be separated from Diphenylamine
All other compounds must meet a minimum RRF of 0.010.



Data File: S2D0813.D
Report Date: 27-Dec-2002 14:16

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021226A.B\S2D0813.D
Lab Smp Id: SS1226B Client Smp ID: SSTD0502Y
Inj Date : 26-DEC-2002 15:26
Operator : WC Inst ID: s2.i
Smp Info : SS1226B,SSTD0502Y
Misc Info : 2,3,SSTD050,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021226A.B\s2_8270C.m
Meth Date : 27-Dec-2002 14:12 mtl Quant Type: ISTD
Cal Date : 19-DEC-2002 04:39 Cal File: S2D0729.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	1 N-Nitrosodimethylamine	74	4.324	4.324	(0.491)	202782	50.0000	43
	57 Azobenzene	77	16.285	16.285	(2.911)	544873	50.0000	48
	2 Pyridine	79	4.378	4.378	(0.497)	350811	50.0000	42
$	3 2-Fluorophenol	112	6.483	6.483	(0.735)	330529	50.0000	46
$	5 Phenol-d6	99	8.081	8.081	(0.917)	413175	50.0000	46
	6 Phenol	94	8.113	8.113	(0.920)	427809	50.0000	46
	7 Aniline	93	8.199	8.199	(0.930)	336408	50.0000	38
	8 bis(2-Chloroethyl)Ether	93	8.307	8.307	(0.942)	327401	50.0000	45
$	9 2-Chlorophenol-d4	132	8.393	8.393	(0.952)	331177	50.0000	46
	10 2-Chlorophenol	128	8.424	8.424	(0.956)	322476	50.0000	46
	11 1,3-Dichlorobenzene	146	8.707	8.707	(0.988)	319187	50.0000	47
*	12 1,4-Dichlorobenzene-d4	152	8.815	8.815	(1.000)	189309	40.0000	
	13 1,4-Dichlorobenzene	146	8.847	8.847	(1.004)	333298	50.0000	48
	15 Benzyl Alcohol	108	9.052	9.052	(1.027)	220490	50.0000	44
$	14 1,2-Dichlorobenzene-d4	152	9.106	9.106	(1.033)	192155	50.0000	48
	16 1,2-Dichlorobenzene	146	9.128	9.128	(1.036)	305033	50.0000	48
	17 2-Methylphenol	108	9.236	9.236	(1.048)	284406	50.0000	46
	18 2,2'-oxybis(1-Chloropropane)	45	9.300	9.300	(1.055)	533911	50.0000	46
	20 4-Methylphenol	108	9.527	9.527	(1.081)	303695	50.0000	44
	19 N-Nitroso-di-n-propylamine	70	9.559	9.559	(1.085)	194342	50.0000	48
	21 Hexachloroethane	117	9.775	9.775	(1.109)	125427	50.0000	47
$	22 Nitrobenzene-d5	82	9.862	9.862	(0.875)	295179	50.0000	46
	23 Nitrobenzene	77	9.894	9.894	(0.877)	393181	50.0000	45
	24 Isophorone	*82*	*10.359*	*10.359*	*(0.919)*	*554883*	*50.0000*	45
	25 2-Nitrophenol	139	10.509	10.509	(0.932)	182250	50.0000	45
	26 2,4-Dimethylphenol	107	10.563	10.563	(0.937)	254812	50.0000	44

Data File: S2D0813.D
Report Date: 27-Dec-2002 14:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	28 Benzoic Acid	105	10.768	10.768	(0.955)	211116	50.0000	45
	27 bis(2-Chloroethoxy)methane	93	10.768	10.768	(0.955)	164359	50.0000	46
	29 2,4-Dichlorophenol	162	10.974	10.974	(0.973)	233370	50.0000	46
	30 1,2,4-Trichlorobenzene	180	11.157	11.157	(0.989)	255382	50.0000	48
*	31 Naphthalene-d8	136	11.276	11.276	(1.000)	662994	40.0000	
	32 Naphthalene	128	11.319	11.319	(1.004)	824314	50.0000	48
	33 4-Chloroaniline	127	11.405	11.405	(1.011)	308386	50.0000	42
	34 Hexachlorobutadiene	225	11.557	11.557	(1.025)	124472	50.0000	48
	35 4-Chloro-3-Methylphenol	107	12.355	12.355	(1.096)	249557	50.0000	48
	36 2-Methylnaphthalene	141	12.712	12.712	(1.127)	532591	50.0000	48
	38 Hexachlorocyclopentadiene	237	13.014	13.014	(0.877)	89225	50.0000	34
	39 2,4,6-Trichlorophenol	196	13.262	13.262	(0.894)	167365	50.0000	47
	40 2,4,5-Trichlorophenol	196	13.338	13.338	(0.899)	183791	50.0000	49
$	41 2-Fluorobiphenyl	172	13.446	13.446	(0.906)	539816	50.0000	49
	42 2-Chloronaphthalene	162	13.494	13.494	(0.923)	459969	50.0000	48
	43 2-Nitroaniline	65	13.899	13.899	(0.937)	145874	50.0000	45
	44 Dimethylphthalate	163	14.277	14.277	(0.962)	544147	50.0000	46
	45 2,6-Dinitrotoluene	*165*	*14.396*	*14.396*	*(0.970)*	*147861*	*50.0000*	*46*
	46 Acenaphthylene	152	14.547	14.547	(0.980)	765111	50.0000	47
	47 3-Nitroaniline	138	14.741	14.741	(0.993)	125256	50.0000	39
*	48 Acenaphthene-d10	164	14.838	14.838	(1.000)	338300	40.0000	
	49 Acenaphthene	153	14.903	14.903	(1.004)	465577	50.0000	48
	50 2,4-Dinitrophenol	184	14.946	14.946	(1.007)	91019	50.0000	45
	51 4-Nitrophenol	109	15.054	15.054	(1.015)	50058	50.0000	44
	53 2,4-Dinitrotoluene	165	15.216	15.216	(1.025)	178474	50.0000	46
	52 Dibenzofuran	168	15.259	15.259	(1.028)	656082	50.0000	47
	54 Diethylphthalate	149	15.723	15.723	(1.060)	522001	50.0000	47
	55 Fluorene	166	15.941	15.941	(1.074)	485659	50.0000	48
	56 4-Chlorophenyl-phenylether	204	15.950	15.950	(1.075)	242704	50.0000	48
	57 4-Nitroaniline	138	15.993	15.993	(1.078)	97793	50.0000	38
	58 4,6-Dinitro-2-methylphenol	198	16.058	16.058	(0.898)	128192	50.0000	46
	59 N-Nitrosodiphenylamine	169	16.198	16.198	(0.906)	322261	50.0000	45
$	60 2,4,6-Tribromophenol	330	16.447	16.447	(0.920)	90493	50.0000	48
	61 4-Bromophenyl-phenylether	248	16.965	16.965	(0.949)	144789	50.0000	47
	62 Hexachlorobenzene	284	17.084	17.084	(0.955)	161403	50.0000	48
	63 Pentachlorophenol	266	17.472	17.472	(0.977)	109186	50.0000	45
*	64 Phenanthrene-d10	188	17.882	17.882	(1.000)	535076	40.0000	
	65 Phenanthrene	178	17.936	17.936	(1.003)	674369	50.0000	48
	66 Anthracene	178	18.044	18.044	(1.009)	661023	50.0000	47
	67 Carbazole	167	18.357	18.357	(1.027)	628201	50.0000	46
	68 Di-n-butylphthalate	149	19.081	19.081	(1.067)	868639	50.0000	48
	69 Fluoranthene	202	20.376	20.376	(1.139)	701989	50.0000	47
	71 Pyrene	202	20.840	20.840	(0.894)	728825	50.0000	48
$	72 Terphenyl-d14	244	21.153	21.153	(0.907)	483740	50.0000	47
	73 Butylbenzylphthalate	149	22.157	22.157	(0.950)	351938	50.0000	46
	74 3,3'-Dichlorobenzidine	252	23.226	23.226	(0.996)	176336	50.0000	39
	75 Benzo(a)anthracene	228	23.291	23.291	(0.999)	596322	50.0000	49

Data File: S2D0813.D
Report Date: 27-Dec-2002 14:16

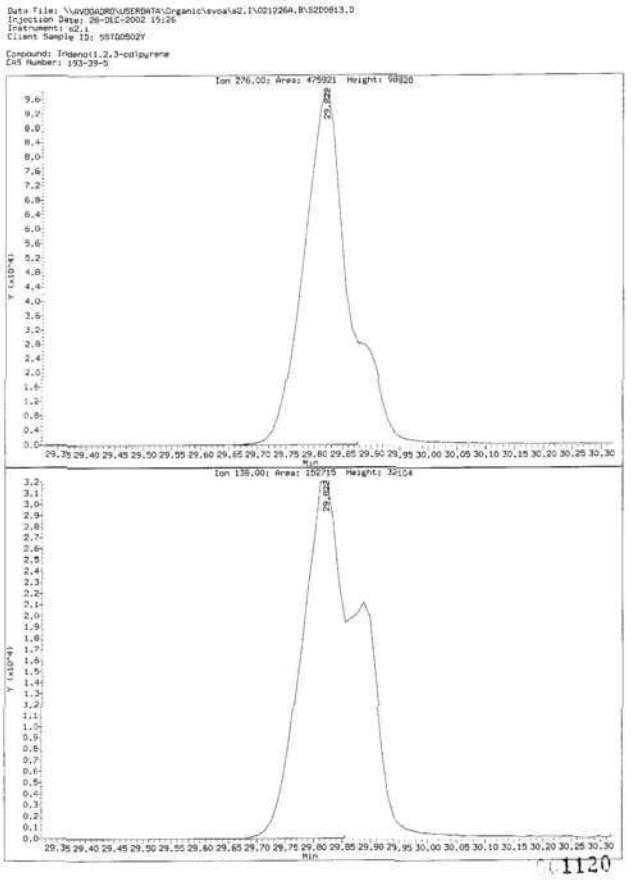
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	76 Chrysene-d12	240	23.312	23.312	(1.000)	612710	40.0000	
	77 Chrysene	228	23.366	23.366	(1.002)	545669	50.0000	46
	78 bis(2-Ethylhexyl)phthalate	149	23.323	23.323	(1.000)	473225	50.0000	51
	79 Di-n-octylphthalate	149	24.608	24.608	(0.930)	835370	50.0000	51
	80 Benzo(b)fluoranthene	252	25.515	25.515	(0.964)	561588	50.0000	49
	81 Benzo(k)fluoranthene	252	25.573	25.573	(0.967)	484740	50.0000	48
	82 Benzo(a)pyrene	252	26.313	26.313	(0.995)	463896	50.0000	47
*	83 Perylene-d12	264	26.454	26.454	(1.000)	234666	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	29.822	29.822	(1.127)	478921	50.0000	46(M)
	85 Dibenz(a,h)anthracene	278	29.887	29.887	(1.130)	445798	50.0000	47
	86 Benzo(g,h,i)perylene	276	30.847	30.847	(1.166)	438486	50.0000	46

QC Flag Legend

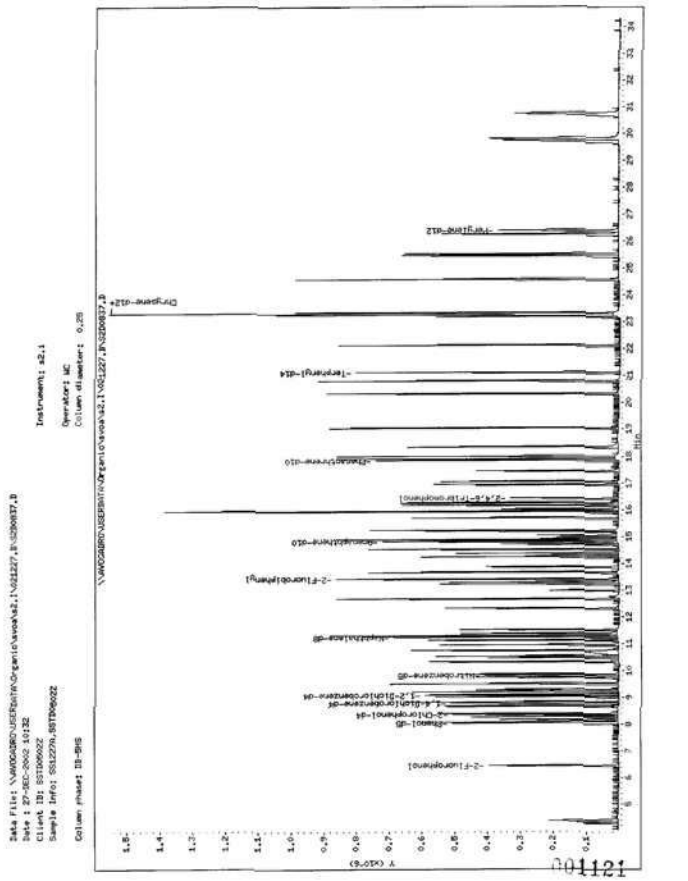
M - Compound response manually integrated.

1/24/03

1/24/03



001120



001121

Data File: *S2D0837.D*
Report Date: 27-Dec-2002 11:18

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021227.B\S2D0837.D
Lab Smp Id: SS1227A Client Smp ID: SSTD0502Z
Inj Date : 27-DEC-2002 10:32
Operator : WC Inst ID: s2.i
Smp Info : SS1227A,SSTD0502Z
Misc Info : 2,3,SSTD050,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021227.B\s2_8270C.m
Meth Date : 27-Dec-2002 11:15 mtl Quant Type: ISTD
Cal Date : 19-DEC-2002 04:39 Cal File: S2D0729.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	1 N-Nitrosodimethylamine	74	4.291	4.291	(0.489)	146537	50.0000	40
	97 Azobenzene	77	16.230	16.230	(0.910)	487466	50.0000	48
	2 Pyridine	79	4.366	4.366	(0.498)	170384	50.0000	42
$	3 2-Fluorophenol	112	6.450	6.450	(0.735)	250201	50.0000	44
$	5 Phenol-d5	99	8.047	8.047	(0.918)	328724	50.0000	47
	6 Phenol	94	8.069	8.069	(0.920)	333775	50.0000	46
	7 Aniline	93	8.166	8.166	(0.931)	277736	50.0000	40
	8 bis(2-Chloroethyl)Ether	93	8.263	8.263	(0.942)	264693	50.0000	47
$	9 2-Chlorophenol-d4	132	8.350	8.350	(0.952)	259471	50.0000	47
	10 2-Chlorophenol	128	8.382	8.382	(0.956)	254005	50.0000	47
	11 1,3-Dichlorobenzene	146	8.474	8.474	(0.989)	246642	50.0000	47
*	12 1,4-Dichlorobenzene-d4	152	8.771	8.771	(1.000)	147452	40.0000	
	13 1,4-Dichlorobenzene	146	8.803	8.803	(1.004)	260458	50.0000	48
	15 Benzyl Alcohol	108	9.008	9.008	(1.027)	176893	50.0000	47
$	14 1,2-Dichlorobenzene-d4	152	9.062	9.062	(1.033)	151651	50.0000	48
	16 1,2-Dichlorobenzene	146	9.095	9.095	(1.037)	237488	50.0000	48
	17 2-Methylphenol	108	9.192	9.192	(1.048)	226968	50.0000	47
	18 2,2'-Oxybis(1-Chloropropane)	45	9.247	9.247	(1.057)	436106	50.0000	49
	20 4-Methylphenol	108	9.483	9.483	(1.081)	243304	50.0000	45
	19 N-Nitroso-di-n-propylamine	70	9.515	9.515	(1.085)	139772	50.0000	44
	21 Hexachloroethane	117	9.731	9.731	(1.110)	99138	50.0000	48
$	22 Nitrobenzene-d5	82	9.818	9.818	(0.874)	242523	50.0000	47
	23 Nitrobenzene	77	9.850	9.850	(0.877)	241028	50.0000	46
	24 Isophorone	82	10.314	10.314	(0.918)	451045	50.0000	45
	25 2-Nitrophenol	139	10.465	10.465	(0.932)	145396	50.0000	44
	26 2,4-Dimethylphenol	107	10.519	10.519	(0.937)	201377	50.0000	42

001122

Data File: S2D0837.D
Report Date: 27-Dec-2002 11:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	28 Benzoic Acid	105	10.714	10.714	(0.954)	162075	50.0000	43
	27 bis(2-Chloroethoxy)methane	93	10.725	10.725	(0.955)	295449	50.0000	45
	29 2,4-Dichlorophenol	162	10.930	10.930	(0.973)	191610	50.0000	46
	30 1,2,4-Trichlorobenzene	180	11.113	11.113	(0.989)	200187	50.0000	46
*	31 Naphthalene-d8	136	11.232	11.232	(1.000)	540373	40.0000	
	32 Naphthalene	128	11.275	11.275	(1.004)	666144	50.0000	48
	33 4-Chloroaniline	127	11.361	11.361	(1.012)	264525	50.0000	45
	34 Hexachlorobutadiene	225	11.502	11.502	(1.024)	97812	50.0000	47
	35 4-Chloro-3-Methylphenol	107	12.311	12.311	(1.096)	206279	50.0000	49
	36 2-Methylnaphthalene	142	12.457	12.457	(1.127)	439027	50.0000	49
	38 Hexachlorocyclopentadiene	237	12.970	12.970	(0.877)	84919	50.0000	25
	39 2,4,6-Trichlorophenol	196	13.218	13.218	(0.894)	137610	50.0000	46
	40 2,4,5-Trichlorophenol	196	13.283	13.283	(0.899)	152162	50.0000	49
$	41 2-Fluorobiphenyl	172	13.402	13.402	(0.907)	449380	50.0000	49
	42 2-Chloronaphthalene	162	13.650	13.650	(0.923)	382140	50.0000	48
	43 2-Nitroaniline	65	13.855	13.855	(0.937)	135239	50.0000	50
	44 Dimethylphthalate	163	14.222	14.222	(0.962)	460971	50.0000	47
	45 2,6-Dinitrotoluene	165	14.352	14.352	(0.971)	124423	50.0000	47
	46 Acenaphthylene	152	14.492	14.492	(0.980)	431685	50.0000	48
	47 3-Nitroaniline	138	14.686	14.686	(0.993)	135976	50.0000	52
*	48 Acenaphthene-d10	164	14.783	14.783	(1.000)	279671	40.0000	
	49 Acenaphthene	153	14.848	14.848	(1.004)	391934	50.0000	49
	50 2,4-Dinitrophenol	184	14.902	14.902	(1.008)	75037	50.0000	44
	51 4-Nitrophenol	109	15.021	15.021	(1.016)	47309	50.0000	50
	53 2,4-Dinitrotoluene	165	15.172	15.172	(1.026)	157043	50.0000	49
	52 Dibenzofuran	168	15.205	15.205	(1.028)	561491	50.0000	48
	54 Diethylphthalate	149	15.679	15.679	(1.061)	455565	50.0000	49
	55 Fluorene	166	15.906	15.906	(1.076)	423088	50.0000	51
	56 4-Chlorophenyl-phenylether	204	15.906	15.906	(1.076)	211880	50.0000	51
	57 4-Nitroaniline	138	15.949	15.949	(1.079)	127513	50.0000	59
	58 4,6-Dinitro-2-methylphenol	198	16.003	16.003	(0.897)	110366	50.0000	44
	59 N-Nitrosodiphenylamine	169	16.144	16.144	(0.905)	309452	50.0000	48
$	60 2,4,6-Tribromophenol	330	16.403	16.403	(0.920)	75138	50.0000	44
	61 4-Bromophenyl-phenylether	248	16.910	16.910	(0.948)	125168	50.0000	45
	62 Hexachlorobenzene	284	17.029	17.029	(0.955)	136435	50.0000	45
	63 Pentachlorophenol	266	17.426	17.428	(0.977)	84807	50.0000	44
*	64 Phenanthrene-d10	188	17.839	17.839	(1.000)	483443	40.0000	
	65 Phenanthrene	178	17.882	17.882	(1.002)	603302	50.0000	47
	66 Anthracene	178	17.990	17.990	(1.008)	593378	50.0000	47
	67 Carbazole	167	18.314	18.314	(1.027)	526703	50.0000	62
	68 Di-n-butylphthalate	149	19.026	19.026	(1.067)	802682	50.0000	49
	69 Fluoranthene	202	20.321	20.321	(1.139)	669795	50.0000	50
	71 Pyrene	202	20.796	20.796	(0.894)	689371	50.0000	44
$	72 Terphenyl-d14	244	21.109	21.109	(0.907)	470622	50.0000	44
	73 Butylbenzylphthalate	149	22.113	22.113	(0.950)	354437	50.0000	44
	74 3,3'-Dichlorobenzidine	252	23.182	23.182	(0.996)	234736	50.0000	49
	75 Benzo(a)anthracene	228	23.247	23.247	(0.999)	628739	50.0000	49

001123

Data File: S2D0837.D
Report Date: 27-Dec-2002 11:18

Compound	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	
* 74 Chrysene-d12	240	23.268	23.268	(1.000)	435088	40.0000		
77 Chrysene	228	23.322	23.322	(1.002)	564503	50.0000	45	
78 Bis(2-Ethylhexyl)phthalate	149	23.279	23.279	(1.000)	493490	50.0000	51	
79 Di-n-octylphthalate	149	24.553	24.553	(0.930)	918701	50.0000	50	
80 Benzo(b)fluoranthene	252	25.449	25.449	(0.964)	621858	50.0000	48	
81 Benzo(k)fluoranthene	252	25.514	25.514	(0.967)	572123	50.0000	50	
82 Benzo(e)pyrene	252	26.268	26.268	(0.995)	550305	50.0000	49	
* 83 Perylene-d12	264	26.388	26.388	(1.000)	363555	40.0000		
84 Indeno(1,2,3-cd)pyrene	276	29.724	29.724	(1.126)	606942	50.0000	53	M
85 Dibenzo(a,h)anthracene	278	29.789	29.789	(1.129)	563989	50.0000	53	
86 Benzo(g,h,i)perylene	276	30.739	30.739	(1.165)	559750	50.0000	52	

QC Flag Legend

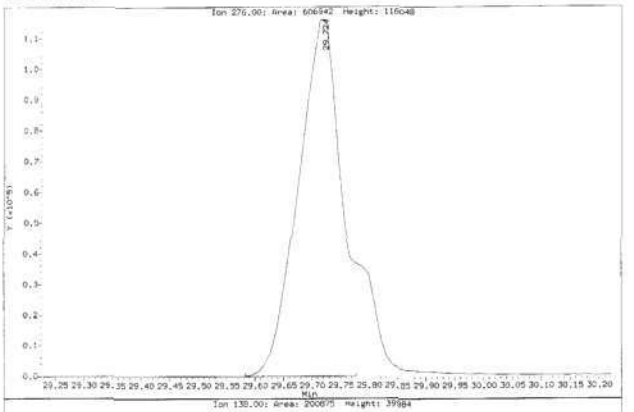
M - Compound response manually integrated.

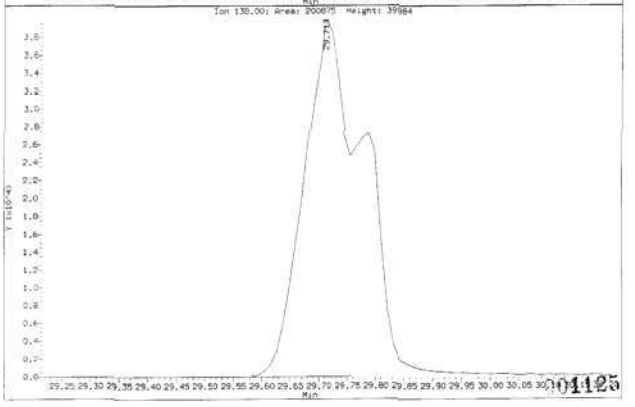
1/24/03

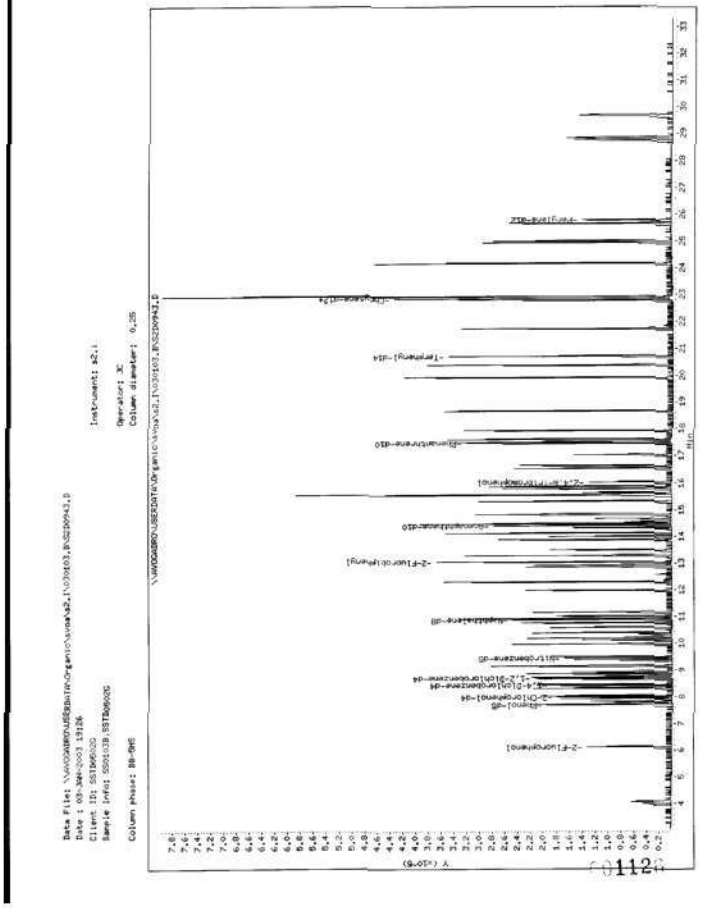
1/24/03

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021227.B\S2D0837.D
Injection Date: 27-DEC-2002 10:32
Instrument: s2.i
Client Sample ID: SSTD0502Z

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5







Data File: S2D0943.D
Report Date: 24-Jan-2003 13:27

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\S2D0943.D
Lab Smp Id: SS0103B Client Smp ID: SSTD0502G
Inj Date : 03-JAN-2003 19:26
Operator : JC Inst ID: s2.i
Smp Info : SS0103B,SSTD0502G
Misc Info : 2,3,SSTD050,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030103.B\s2_8270C.m
Meth Date : 24-Jan-2003 13:27 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

Compound	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)	
1 N-Nitrosodimethylamine	74	3.968	3.968	(0.472)	53326	50.0000	46	
93 Azobenzene	77	15.832	15.832	(0.909)	188271	50.0000	48	
2 Pyridine	79	4.033	4.033	(0.480)	84115	50.0000	40	
S 3 2 Fluorophenol	112	6.106	6.106	(0.726)	94539	50.0000	44	
S 5 Phenol-d5	99	7.693	7.693	(0.915)	119691	50.0000	48	
6 Phenol	94	7.714	7.714	(0.918)	123056	50.0000	49	
7 Aniline	93	7.790	7.790	(0.927)	83485	50.0000	38	
8 bis(2-Chloroethyl)Ether	93	7.909	7.909	(0.941)	94428	50.0000	50	
S 9 2-Chlorophenol-d4	132	7.973	7.973	(0.949)	95586	50.0000	48	
10 2-Chlorophenol	128	8.006	8.006	(0.952)	93408	50.0000	48	
11 1,3-Dichlorobenzene	146	8.297	8.297	(0.987)	90024	50.0000	47	
* 12 1,4-Dichlorobenzene-d4	152	8.405	8.405	(1.000)	53827	40.0000		
13 1,4-Dichlorobenzene	146	8.438	8.438	(1.004)	95392	50.0000	48	
15 Benzyl Alcohol	108	8.432	8.432	(1.027)	62051	50.0000	48	
S 14 1,2-Dichlorobenzene-d4	152	8.686	8.686	(1.033)	56059	50.0000	48	
16 1,2-Dichlorobenzene	146	8.707	8.707	(1.036)	88205	50.0000	49	
17 2-Methylphenol	108	8.826	8.826	(1.050)	83423	50.0000	49	
18 2,2'-oxybis(1-Chloropropane)	45	8.902	8.902	(1.059)	154439	50.0000	51	
20 4-Methylphenol	108	9.118	9.118	(1.085)	90374	50.0000	49	
19 N-Nitroso-di-n-propylamine	70	9.139	9.139	(1.087)	49170	50.0000	49	
21 Hexachloroethane	117	9.355	9.365	(1.113)	35066	50.0000	48	
S 22 Nitrobenzene-d5	82	9.431	9.431	(0.870)	88455	50.0000	45	
23 Nitrobenzene	77	9.474	9.474	(0.874)	89882	50.0000	46	
24 Isophorone	82	9.927	9.927	(0.915)	166599	50.0000	47	
25 2-Nitrophenol	139	10.089	10.089	(0.930)	56743	50.0000	45	
26 2,4-Dimethylphenol	107	10.154	10.154	(0.936)	71608	50.0000	42	

Data File: S2D0943.D
Report Date: 24-Jan-2003 13:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
	28 Benzoic Acid	105	10.305	10.305	(0.950)	52931	50.0000	44
	27 bis(2-Chloroethoxy)methane	93	10.359	10.359	(0.955)	111343	50.0000	48
	29 2,4-Dichlorophenol	162	10.553	10.553	(0.973)	73658	50.0000	46
	30 1,2,4-Trichlorobenzene	180	10.726	10.726	(0.989)	77333	50.0000	46
*	31 Naphthalene-d8	136	10.845	10.845	(1.000)	203776	40.0000	
	32 Naphthalene	128	10.877	10.877	(1.003)	258444	50.0000	47
	33 4-Chloroaniline	127	10.985	10.985	(1.013)	95947	50.0000	43
	34 Hexachlorobutadiene	225	11.126	11.126	(1.026)	79374	50.0000	46
	35 4-Chloro-3-Methylphenol	107	11.946	11.946	(1.102)	78742	50.0000	48
	36 2-Methylnaphthalene	142	12.370	12.370	(1.151)	173926	50.0000	48
	38 Hexachlorocyclopentadiene	237	12.583	12.583	(0.875)	7304	50.0000	10(M)
	39 2,4,6-Trichlorophenol	196	12.831	12.831	(0.892)	53814	50.0000	44
	40 2,4,5-Trichlorophenol	196	12.896	12.896	(0.896)	58972	50.0000	46
I	41 2-Fluorobiphenyl	172	13.015	13.015	(0.905)	179348	50.0000	47
	42 2-Chloronaphthalene	162	13.252	13.252	(0.921)	154320	50.0000	47
	43 2-Nitroaniline	65	13.457	13.457	(0.935)	49919	50.0000	45
	44 Dimethylphthalate	163	13.846	13.846	(0.962)	191945	50.0000	47
	45 2,6-Dinitrotoluene	165	13.965	13.965	(0.971)	80506	50.0000	46
	46 Acenaphthylene	152	14.094	14.094	(0.980)	249074	50.0000	46
	47 3-Nitroaniline	138	14.299	14.299	(0.994)	53827	50.0000	44
*	48 Acenaphthene-d10	164	14.386	14.386	(1.000)	111871	40.0000	
	49 Acenaphthene	*163*	*14.432*	*14.430*	*(1.004)*	*240899*	*50.0000*	*48*
	50 2,4-Dinitrophenol	184	14.515	14.513	(1.009)	23535	50.0000	36
	51 4-Nitrophenol	109	14.634	14.634	(1.017)	18369	50.0000	42
	53 2,6-Dinitrotoluene	165	14.785	14.785	(1.028)	64267	50.0000	48
	52 Dibenzofuran	168	14.807	14.807	(1.029)	226657	50.0000	48
	54 Diethylphthalate	149	15.292	15.292	(1.063)	186072	50.0000	47
	55 Fluorene	166	15.498	15.498	(1.077)	177399	50.0000	50
	56 4-Chlorophenyl-phenylether	204	15.508	15.508	(1.078)	88747	50.0000	49
	57 4-Nitroaniline	138	15.541	15.541	(1.080)	53408	50.0000	45
	58 4,6-Dinitro-2-methylphenol	198	15.606	15.606	(0.896)	42231	50.0000	42(Q)
	59 N-Nitrosodiphenylamine	169	15.757	15.757	(0.905)	126364	50.0000	46
S	60 2,4,6-Tribromophenol	330	15.994	15.994	(0.918)	31420	50.0000	46
	61 4-Bromophenyl-phenylether	248	16.512	16.513	(0.948)	54596	50.0000	47
	62 Hexachlorobenzene	284	16.620	16.620	(0.954)	58354	50.0000	47
	63 Pentachlorophenol	266	17.020	17.020	(0.977)	33171	50.0000	42
*	64 Phenanthrene-d10	188	17.419	17.419	(1.000)	199963	40.0000	
	65 Phenanthrene	178	17.462	17.462	(1.002)	249675	50.0000	47
	66 Anthracene	178	17.570	17.570	(1.009)	239375	50.0000	46
	67 Carbazole	167	17.905	17.905	(1.028)	225813	50.0000	49
	68 Di-n-butylphthalate	149	18.639	18.639	(1.070)	335291	50.0000	48
	69 Fluoranthene	202	19.902	19.902	(1.143)	280922	50.0000	47
	71 Pyrene	202	20.366	20.366	(0.892)	289443	50.0000	46
S	72 Terphenyl-d14	244	20.690	20.690	(0.906)	201557	50.0000	46
	73 Butylbenzylphthalate	149	21.705	21.705	(0.951)	142479	50.0000	46
	74 3,3'-Dichlorobenzidine	252	22.743	22.743	(0.997)	91102	50.0000	44
	76 Benzo(a)anthracene	228	22.806	22.806	(0.999)	258049	50.0000	45

mf peak wrd 1/28/03

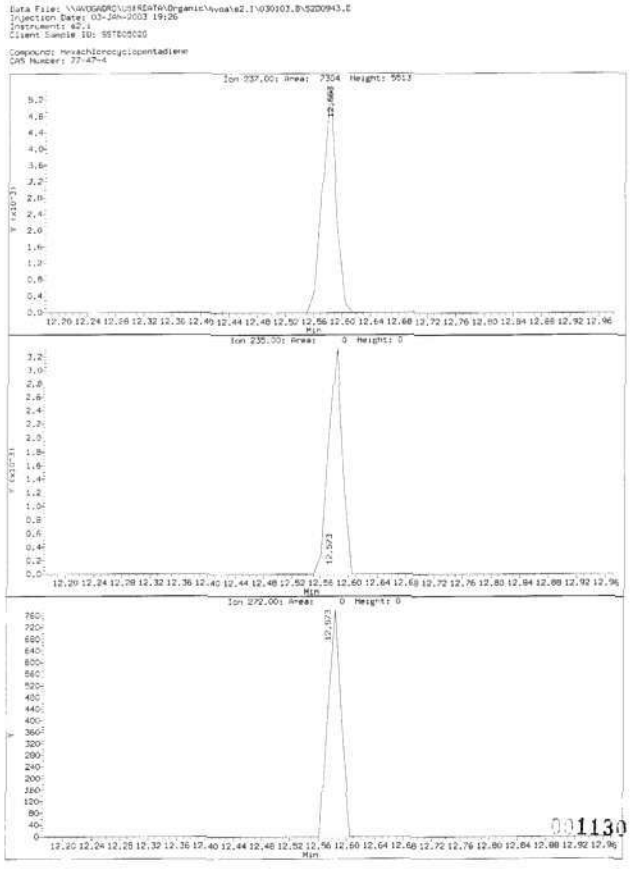
Data File: S2D0943.D
Report Date: 24-Jan-2003 13:27

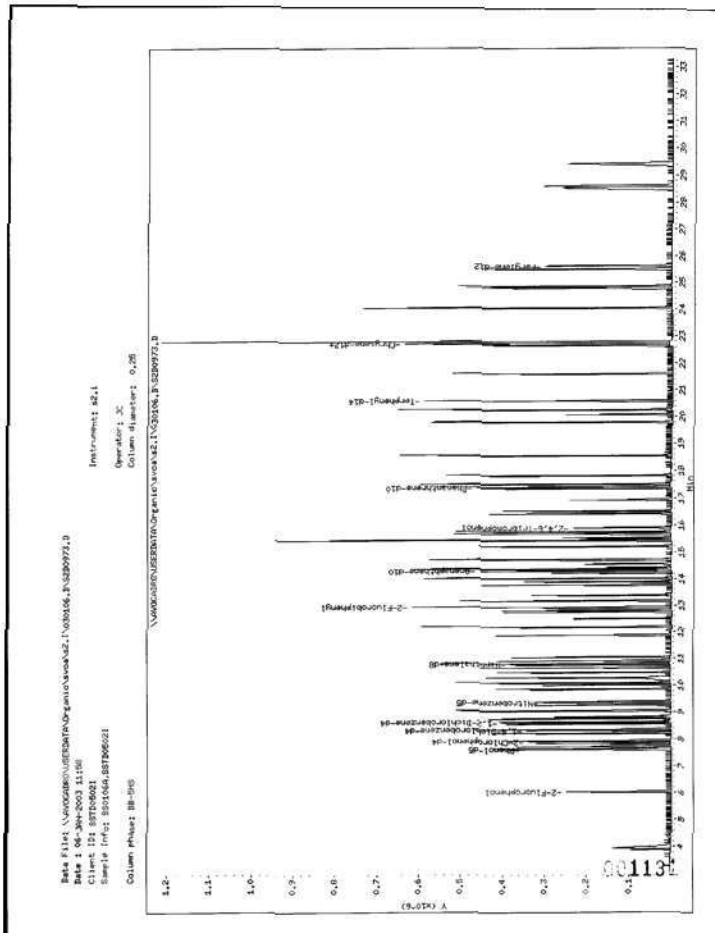
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
*	76 Chrysene-d12	240	22.827	22.827	(1.000)	189880	40.0000	
	77 Chrysene	228	22.881	22.881	(1.002)	232771	50.0000	47
	78 bis(2-ethylhexyl)phthalate	149	22.892	22.892	(1.003)	204811	50.0000	49
	79 Di-n-octylphthalate	149	24.144	24.144	(0.937)	363051	50.0000	54
	80 Benzo(b)fluoranthene	252	24.911	24.911	(0.967)	243930	50.0000	50
	81 Benzo(k)fluoranthene	252	24.976	24.976	(0.969)	217979	50.0000	53
	82 Benzo(a)pyrene	252	25.634	25.634	(0.995)	209146	50.0000	52
*	83 Perylene-d12	264	25.764	25.764	(1.000)	91281	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	28.733	28.733	(1.115)	219944	50.0000	51
	85 Dibenzo(a,h)anthracene	278	28.808	28.808	(1.118)	213291	50.0000	55
	86 Benzo(g,h,i)perylene	276	29.650	29.650	(1.151)	212701	50.0000	55

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

1/28/03





Data File: S2D0973.D
Report Date: 23-Jan-2003 14:49

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\S2D0973.D
Lab Smp Id: SS0106A Client Smp ID: SSTD0502I
Inj Date : 06-JAN-2003 11:58
Operator : JC Inst ID: s2.i
Smp Info : SS0106A,SSTD0502I
Misc Info : 2,3,SSTD050,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030106.B\s2_8270C.m
Meth Date : 23-Jan-2003 14:49 mtl Quant Type: ISTD
Cal Date : 03-JAN-2003 17:47 Cal File: S2D0940.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
$	3 2-Fluorophenol	112	6.034	6.034	(0.725)	179055	50.0000	51
$	5 Phenol-d5	99	7.620	7.620	(0.916)	221401	50.0000	49
	6 Phenol	94	7.642	7.642	(0.918)	339533	50.0000	52
	8 bis(2-Chloroethyl)Ether	93	7.836	7.836	(0.942)	174956	50.0000	51
$	9 2-Chlorophenol-d4	132	7.901	7.901	(0.949)	180615	50.0000	49
	10 2-Chlorophenol	128	7.934	7.934	(0.953)	186435	50.0000	52
	11 1,3-Dichlorobenzene	146	8.214	8.214	(0.987)	185746	50.0000	53
*	12 1,4-Dichlorobenzene-d4	152	8.322	8.322	(1.000)	98043	40.0000	
	13 1,4-Dichlorobenzene	146	8.354	8.354	(1.004)	193762	50.0000	53
$	14 1,2-Dichlorobenzene-d4	152	8.603	8.603	(1.034)	110343	50.0000	52
	16 1,2-Dichlorobenzene	146	8.635	8.635	(1.038)	172907	50.0000	52
	17 2-Methylphenol	108	8.754	8.754	(1.052)	164472	50.0000	53
	18 2,2'-oxybis(1-Chloropropane)	45	8.829	8.829	(1.061)	278022	50.0000	51
	20 4-Methylphenol	*108*	*9.045*	*9.045*	*(1.087)*	*375090*	*50.0000*	*51*
	19 N-Nitroso-di-n-propylamine	70	9.067	9.067	(1.090)	95219	50.0000	52
	21 Hexachloroethane	117	9.272	9.272	(1.114)	70280	50.0000	52
$	22 Nitrobenzene-d5	82	9.358	9.358	(0.870)	168123	50.0000	53
	23 Nitrobenzene	77	9.391	9.391	(0.873)	165937	50.0000	52
	24 Isophorone	82	9.855	9.855	(0.916)	301686	50.0000	52
	25 2-Nitrophenol	139	10.006	10.006	(0.930)	107696	50.0000	53
	26 2,4-Dimethylphenol	107	10.082	10.082	(0.937)	159596	50.0000	57
	27 bis(2-Chloroethoxy)methane	93	10.274	10.274	(0.955)	196020	50.0000	52
	29 2,4-Dichlorophenol	162	10.470	10.470	(0.973)	141878	50.0000	54
	30 1,2,4-Trichlorobenzene	180	10.643	10.643	(0.989)	144536	50.0000	53
*	31 Naphthalene-d8	136	10.762	10.762	(1.000)	329135	40.0000	
	32 Naphthalene	128	10.794	10.794	(1.003)	472885	50.0000	53

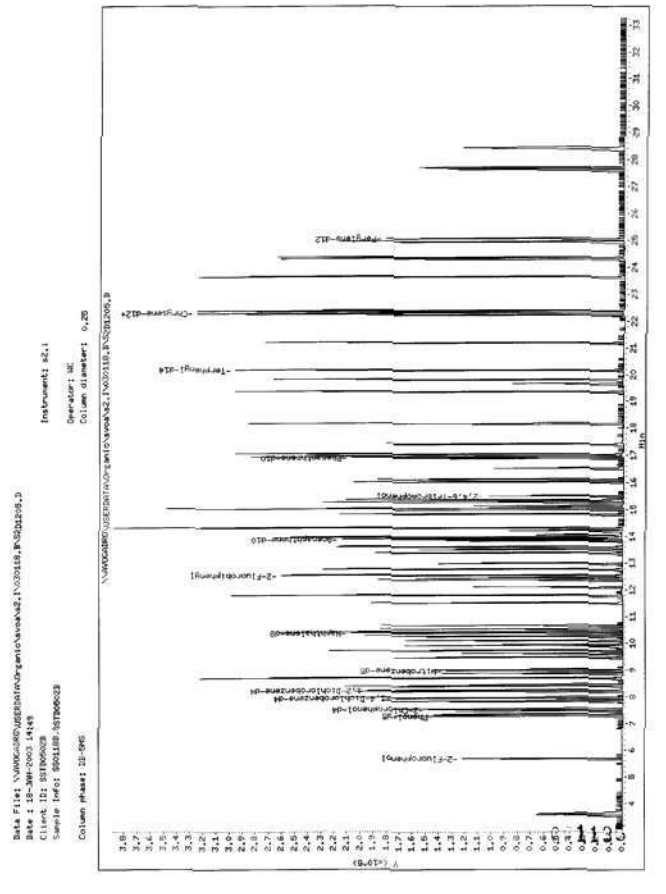
Data File: S2D0973.D
Report Date: 23-Jan-2003 14:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	33 4-Chloroaniline	127	10.902	10.902	(1.013)	203987	50.0000	58
	34 Hexachlorobutadiene	225	11.042	11.042	(1.026)	73040	50.0000	53
	35 4-Chloro-3-Methylphenol	107	11.863	11.863	(1.102)	142768	50.0000	54
	36 2-Methylnaphthalene	142	12.187	12.187	(1.132)	308424	50.0000	53
	38 Hexachlorocyclopentadiene	237	12.500	12.500	(0.875)	71965	50.0000	66
	39 2,4,6-Trichlorophenol	196	12.748	12.748	(0.892)	101675	50.0000	54
	40 2,4,5-Trichlorophenol	196	12.813	12.813	(0.897)	110168	50.0000	54
$	41 2-Fluorobiphenyl	172	12.933	12.933	(0.905)	334537	50.0000	54
	42 2-Chloronaphthalene	162	13.169	13.169	(0.921)	273723	50.0000	53
	43 2-Nitroaniline	65	13.374	13.374	(0.936)	88582	50.0000	51
	44 Dimethylphthalate	163	13.763	13.763	(0.963)	324681	50.0000	51
	45 2,6-Dinitrotoluene	165	13.882	13.882	(0.971)	87488	50.0000	51
	46 Acenaphthylene	152	14.000	14.000	(0.980)	443123	50.0000	54
	47 3-Nitroaniline	138	14.216	14.216	(0.995)	94016	50.0000	50
*	48 Acenaphthene-d10	164	14.292	14.292	(1.000)	176249	45.0000	
	49 Acenaphthene	153	14.357	14.357	(1.005)	277130	50.0000	52
	50 2,4-Dinitrophenol	184	14.432	14.432	(1.010)	54012	50.0000	52
	51 4-Nitrophenol	109	14.551	14.551	(1.018)	34678	50.0000	51
	53 2,4-Dinitrotoluene	165	14.691	14.691	(1.028)	111124	50.0000	53
	52 Dibenzofuran	*168*	*14.713*	*14.713*	*(1.029)*	*394238*	*50.0000*	*53*
	54 Diethylphthalate	149	15.209	15.209	(1.064)	318033	50.0000	51
	56 4-Chlorophenyl-phenylether	204	15.425	15.425	(1.079)	152379	50.0000	54
	55 Fluorene	166	15.415	15.415	(1.079)	301550	50.0000	54
	57 4-Nitroaniline	138	15.469	15.469	(1.082)	88431	50.0000	47
	58 4,6-Dinitro-2-methylphenol	198	15.522	15.522	(0.896)	80276	50.0000	53
	59 N-Nitrosodiphenylamine	169	15.463	15.463	(0.904)	220932	50.0000	53
$	60 2,4,6-Tribromophenol	330	15.910	15.900	(0.918)	50992	50.0000	49
	61 4-Bromophenyl-phenylether	248	16.418	16.418	(0.948)	92439	50.0000	52
	62 Hexachlorobenzene	284	16.526	16.526	(0.954)	98933	50.0000	53
	63 Pentachlorophenol	266	16.926	16.926	(0.977)	55662	50.0000	47
*	64 Phenanthrene-d10	188	17.325	17.325	(1.000)	304488	40.0000	
	65 Phenanthrene	178	17.379	17.379	(1.003)	435404	50.0000	54
	66 Anthracene	178	17.476	17.476	(1.009)	441268	50.0000	55
	67 Carbazole	167	17.811	17.811	(1.028)	364342	50.0000	52
	68 Di-n-butylphthalate	149	18.556	18.556	(1.071)	546817	50.0000	52
	69 Fluoranthene	202	19.808	19.808	(1.143)	480072	50.0000	53
	71 Pyrene	202	20.262	20.262	(0.891)	486639	50.0000	49
$	72 Terphenyl-d14	244	20.596	20.596	(0.906)	333731	50.0000	49
	73 Butylbenzylphthalate	149	21.622	21.622	(0.951)	239309	50.0000	49
	74 3,3'-Dichlorobenzidine	252	22.669	22.669	(0.997)	163070	50.0000	51
	75 Benzo(a)anthracene	228	22.712	22.712	(0.999)	449607	50.0000	51
*	76 Chrysene-d12	240	22.734	22.734	(1.000)	295026	40.0000	
	78 bis(2-Ethylhexyl)phthalate	149	22.798	22.798	(1.003)	332265	50.0000	51
	77 Chrysene	228	22.788	22.788	(1.002)	403205	50.0000	52
	79 Di-n-octylphthalate	149	24.051	24.051	(0.938)	599030	50.0000	40
	80 Benzo(b)fluoranthene	252	24.804	24.804	(0.968)	435739	50.0000	40
	81 Benzo(k)fluoranthene	252	24.840	24.840	(0.970)	386309	50.0000	42

Data File: S2D0973.D
Report Date: 23-Jan-2003 14:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	82 Benzo(a)pyrene	252	25.508	25.508	(0.995)	404322	50.0000	45
*	83 Perylene-d12	264	25.627	25.627	(1.000)	203879	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	28.541	28.541	(1.114)	441016	50.0000	46
	85 Dibenzo(a,h)anthracene	278	28.606	28.606	(1.116)	402007	50.0000	46
	86 Benzo(g,h,i)perylene	276	29.437	29.437	(1.149)	399640	50.0000	47

1/29/03



Data File: S2D1205.D
Report Date: 19-Jan-2003 12:00

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030118.B\S2D1205.D
Lab Smp Id: SS0118B Client Smp ID: SSTD0502B
Inj Date : 18-JAN-2003 14:49
Operator : WC Inst ID: s2.i
Smp Info : SS0118B,SSTD0502B
Misc Info : 2,3,SSTD050,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030118.B\s2_8270C.m
Meth Date : 19-Jan-2003 12:00 mtl Quant Type: ISTD
Cal Date : 18-JAN-2003 12:56 Cal File: S2D1202.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	1 N-Nitrosodimethylamine	74	3.558	3.558	(0.449)	42462	50.0000	51
	97 Azobenzene	77	15.326	15.325	(0.907)	139183	50.0000	50
	3 Pyridine	79	3.612	3.612	(0.455)	74335	50.0000	50
$	5 2-Fluorophenol	112	5.674	5.674	(0.715)	72237	50.0000	45
$	5 Phenol-d5	99	7.272	7.272	(0.917)	86543	50.0000	46
	6 Phenol	94	7.304	7.304	(0.921)	94939	50.0000	48
	7 Aniline	93	7.336	7.336	(0.925)	102680	50.0000	45
	8 bis(2-Chloroethyl)Ether	93	7.466	7.466	(0.941)	68875	50.0000	49
$	9 2-Chlorophenol-d4	132	7.520	7.520	(0.948)	76410	50.0000	50
	10 2-Chlorophenol	128	7.552	7.552	(0.952)	78313	50.0000	50
	11 1,3-Dichlorobenzene	146	7.822	7.822	(0.986)	79122	50.0000	50
*	12 1,4-Dichlorobenzene-d4	152	7.930	7.930	(1.000)	45860	40.0000	
	13 1,4-Dichlorobenzene	146	7.963	7.963	(1.004)	82838	50.0000	50
	15 Benzyl Alcohol	*108*	*8.189*	*8.189*	*(1.033)*	*97208*	*50.0000*	49
$	14 1,2-Dichlorobenzene-d4	152	8.211	8.211	(1.035)	46864	50.0000	50
	16 1,2-Dichlorobenzene	146	8.232	8.232	(1.038)	73487	50.0000	50
	17 2-Methylphenol	108	8.394	8.394	(1.059)	67525	50.0000	50
	18 2,2'-oxybis(1-Chloropropane)	45	8.448	8.448	(1.065)	110138	50.0000	48
	20 4-Methylphenol	108	8.586	8.586	(1.083)	69403	50.0000	48
	19 N-Nitroso-di-n-propylamine	70	8.586	8.586	(1.083)	38682	50.0000	51
	21 Hexachloroethane	117	8.869	8.869	(1.118)	30252	50.0000	50
$	22 Nitrobenzene-d5	82	8.966	8.966	(0.866)	48537	50.0000	48
	23 Nitrobenzene	77	8.999	8.999	(0.870)	66616	50.0000	48
	24 Isophorone	82	9.463	9.463	(0.914)	123132	50.0000	49
	25 2-Nitrophenol	139	9.614	9.614	(0.929)	45289	50.0000	49
	26 2,4-Dimethylphenol	107	9.711	9.711	(0.938)	66595	50.0000	48

Data File: S2D1205.D
Report Date: 19-Jan-2003 12:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
	28 Benzoic Acid	105	9.938	9.938	(0.960)	17482	50.0000	50
	27 bis(2-Chloroethoxy)methane	93	9.895	9.895	(0.956)	79514	50.0000	49
	29 2,4-Dichlorophenol	162	10.078	10.078	(0.974)	40363	50.0000	50
	30 1,2,4-Trichlorobenzene	180	10.240	10.240	(0.990)	62376	50.0000	48
*	31 Naphthalene-d8	136	10.368	10.368	(1.000)	257379	40.0000	
	32 Naphthalene	128	10.391	10.391	(1.004)	197488	50.0000	48
	33 4-Chloroaniline	127	10.510	10.510	(1.016)	84969	50.0000	49
	34 Hexachlorobutadiene	225	10.640	10.640	(1.028)	34687	50.0000	49
	35 4-Chloro-3-Methylphenol	107	11.493	11.493	(1.111)	60873	50.0000	49
	36 2-Methylnaphthalene	142	11.773	11.773	(1.138)	133367	50.0000	49
	38 Hexachlorocyclopentadiene	237	12.086	12.086	(0.872)	31109	50.0000	50
	39 2,4,6-Trichlorophenol	196	12.345	12.345	(0.890)	43952	50.0000	48
	40 2,4,5-Trichlorophenol	196	12.421	12.421	(0.896)	46725	50.0000	48
$	41 2-Fluorobiphenyl	172	12.529	12.529	(0.903)	143735	50.0000	49
	42 2-Chloronaphthalene	162	12.745	12.745	(0.919)	117522	50.0000	48
	43 2-Nitroaniline	65	12.971	12.971	(0.935)	37473	50.0000	48
	44 Dimethylphthalate	163	13.360	13.360	(0.963)	145278	50.0000	48
	45 2,6-Dinitrotoluene	165	13.479	13.479	(0.972)	38481	50.0000	49
	46 Acenaphthylene	152	13.587	13.587	(0.980)	194537	50.0000	48
	47 3-Nitroaniline	*138*	*13.813*	*13.813*	*(0.996)*	*40191*	*50.0000*	49
*	48 Acenaphthene-d10	164	13.867	13.867	(1.000)	86089	40.0000	
	49 Acenaphthene	153	13.932	13.932	(1.005)	121977	50.0000	48
	50 2,4-Dinitrophenol	184	14.029	14.029	(1.012)	29740	50.0000	57
	51 4-Nitrophenol	109	14.191	14.191	(1.023)	16106	50.0000	47
	53 2,4-Dinitrotoluene	165	14.288	14.288	(1.030)	47664	50.0000	48
	52 Dibenzofuran	168	14.288	14.288	(1.030)	171320	50.0000	48
	54 Diethylphthalate	149	14.807	14.807	(1.068)	142748	50.0000	49
	55 Fluorene	166	14.990	14.990	(1.081)	135852	50.0000	48
	56 4-Chlorophenyl-phenylether	204	15.001	15.001	(1.082)	71588	50.0000	49
	57 4-Nitroaniline	138	15.055	15.055	(1.086)	38879	50.0000	47
	58 4,6-Dinitro-2-methylphenol	198	15.120	15.120	(0.895)	33587	50.0000	53(Q)
	59 N-Nitrosodiphenylamine	169	15.249	15.249	(0.903)	97588	50.0000	49
$	60 2,4,6-Tribromophenol	330	15.474	15.474	(0.916)	22613	50.0000	50
	61 4-Bromophenyl-phenylether	248	15.994	15.994	(0.947)	42963	50.0000	49
	62 Hexachlorobenzene	284	16.091	16.091	(0.953)	45029	50.0000	49
	63 Pentachlorophenol	266	16.501	16.501	(0.977)	23076	50.0000	48
*	64 Phenanthrene-d10	188	16.490	16.490	(1.000)	152997	40.0000	
	65 Phenanthrene	178	16.933	16.933	(1.003)	194069	50.0000	49
	66 Anthracene	178	17.041	17.041	(1.009)	193652	50.0000	49
	67 Carbazole	167	17.387	17.387	(1.029)	154049	50.0000	46
	68 Di-n-butylphthalate	149	18.142	18.142	(1.074)	247136	50.0000	49
	69 Fluoranthene	202	19.351	19.351	(1.146)	215242	50.0000	48
	71 Pyrene	202	19.805	19.805	(0.889)	221357	50.0000	48
$	72 Terphenyl-d14	244	20.161	20.161	(0.905)	153151	50.0000	48
	73 Butylbenzylphthalate	149	21.187	21.187	(0.951)	106695	50.0000	49
	74 3,3'-Dichlorobenzidine	252	22.223	22.223	(0.998)	75415	50.0000	48
	75 Benzo(a)anthracene	228	22.255	22.255	(0.999)	208303	50.0000	48

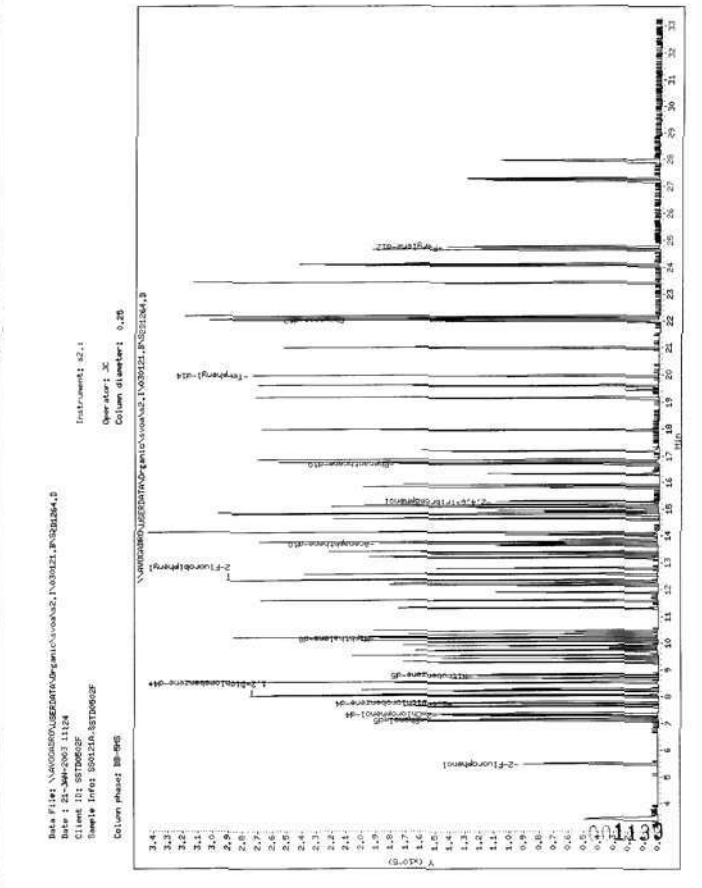
Data File: S2D1205.D
Report Date: 19-Jan-2003 12:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	ON-COL (ng)
*	76 Chrysene-d12	240	22.377	22.377	(1.003)	155125	40.0000	
	77 Chrysene	228	22.391	22.391	(1.002)	190147	50.0000	48
	78 bis(2-Ethylhexyl)phthalate	149	22.374	22.374	(1.004)	148978	50.0000	48
	79 Di-n-octylphthalate	149	23.626	23.626	(0.944)	272199	50.0000	49
	80 Benzo(b)fluoranthene	252	24.296	24.296	(0.970)	193950	50.0000	46
	81 Benzo(k)fluoranthene	252	24.350	24.350	(0.972)	176245	50.0000	47
	82 Benzo(a)pyrene	252	24.932	24.932	(0.996)	181991	50.0000	47
*	83 Perylene-d12	264	25.040	25.040	(1.000)	107356	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	27.631	27.631	(1.103)	197178	50.0000	45
	85 Dibenzo(a,h)anthracene	278	27.696	27.696	(1.106)	184372	50.0000	48
	86 Benzo(g,h,i)perylene	276	28.419	28.419	(1.135)	184842	50.0000	48

QC Flag Legend

Q - Qualifier signal failed the ratio test.

1/24/03



Data File: S2D1264.D
Report Date: 22-Jan-2003 13:42

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1264.D
Lab Smp Id: SS0121A Client Smp ID: SSTD0502F
Inj Date : 21-JAN-2003 12:24
Operator : JC Inst ID: s2.i
Smp Info : SS0121A,SSTD0502F
Misc Info : 2,3,SSTD050,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\s2_8270C.m
Meth Date : 22-Jan-2003 13:42 mtl Quant Type: ISTD
Cal Date : 18-JAN-2003 12:56 Cal File: S2D1202.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET7

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	ON-COL (ng)	
1 N-Nitrosodimethylamine	74	5.580	5.595 (0.617)	61021	50.0000	50	
93 Acetophenone	77	15.126	15.126 (0.998)	328366	50.0000	50	
2 Pyridine	79	5.653	5.639 (0.463)	73417	50.0000	55	
3 2-Fluorophenol	112	8.808	8.805 (0.719)	72753	50.0000	56	
5 Phenol-d6	99	9.104	9.104 (0.915)	88656	50.0000	56	
4 Phenol	94	9.128	9.125 (0.919)	190474	50.0000	57	
7 Aniline	93	9.167	9.187 (0.924)	97838	50.0000	54	
8 Bis(2-Chloroethyl)Ether	93	9.287	9.287 (0.949)	71177	50.0000	56	
9 2-Chlorophenol-d4	132	9.341	9.344 (0.947)	97216	50.0000	57	
10 2-Chlorophenol	128	9.370	9.373 (0.958)	72631	50.0000	55	
11 1,3-Dichlorobenzene	146	9.549	9.543 (0.976)	76233	50.0000	56	
12 1,4-Dichlorobenzene-d4	152	9.751	9.751 (1.000)	61279	50.0000		
13 1,4-Dichlorobenzene	146	9.793	9.793 (1.002)	87323	50.0000	58	
15 Benzyl Alcohol	108	9.910	9.910 (1.013)	63490	50.0000	57	
14 1,2-Dichlorobenzene-d4	152	9.991	9.991 (1.022)	64458	50.0000	58	
16 1,2 Dichlorobenzene	146	9.988	9.983 (1.020)	74463	50.0000	57	
17 2-Methylphenol	108	9.918	9.918 (1.014)	65533	50.0000	57	
19 2,2'-Oxybis(1-Chloropropane)	45	9.969	9.969 (1.019)	117634	50.0000	57	
20 4-Methylphenol	108	9.998	9.998 (1.039)	72348	50.0000	56	
18 N-Nitroso-di-n-propylamine	70	9.918	9.918 (1.989)	64821	50.0000	58	
21 Hexachloroethane	117	9.680	9.680 (1.110)	39734	50.0300	56	
22 Nitrobenzene-d5	82	9.777	9.777 (1.000)	78415	50.0000	58	
23 Nitrobenzene	77	9.830	9.810 (1.008)	49346	50.0000	55	
24 Isophorone	82	9.984	9.984 (1.014)	137244	50.0000	56	
25 2-Nitrophenol	139	9.636	9.636 (1.019)	46203	50.0000	55	
26 2,4-Dimethylphenol	122	9.552	9.552 (1.010)	44348	50.0000	51	

001140

Data File: S2D1254.D
Report Date: 22-Jan-2003 13:42

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	ON-COL (ng)	
28 Benzoic Acid	105	9.791	9.791 (0.964)	44376	50.2305	46	
27 Bis(2-Chloroethoxy)Methane	93	9.716	9.716 (0.956)	80538	50.5009	59	
29 2,4-Dichlorophenol	162	9.888	9.889 (0.974)	65347	50.0000	55	
30 1,2,4-Trichlorobenzene	180	10.051	10.051 (0.989)	63451	50.0000	54	
31 Naphthalene-d8	136	10.188	10.188 (1.005)	145244	43.9998		
33 Naphthalene	128	10.203	10.203 (1.004)	243242	50.0000	58	
32 4-Chloroaniline	127	10.350	10.350 (1.018)	84484	50.0000	50	
34 Hexachlorobutadiene	225	10.450	10.450 (1.029)	34631	50.0000	54	
35 4-Chloro-3-Methylphenol	107	11.002	11.001 (1.017)	91712	50.0000	58	
36 2-Methylnaphthalene	142	11.084	11.084 (1.020)	136674	50.0000	58	
37 1-Methylnaphthalene	142	11.186	11.186 (1.030)	139517	50.0000		
38 Hexachlorocyclopentadiene	237	11.888	11.886 (0.973)	31366	50.0000	53	
39 2,4,6-Trichlorophenol	196	12.136	12.136 (0.988)	45120	50.0000	58	
40 2,4,5-Trichlorophenol	196	12.220	12.220 (0.994)	45083	50.0000	54	
41 2-Fluorobiphenyl	172	12.338	12.338 (0.992)	163495	50.0000	55	
42 2-Chloronaphthalene	162	12.555	12.555 (0.989)	118279	50.0000	55	
43 2-Nitroaniline	65	12.782	12.782 (0.993)	19085	50.0000	46	
44 Dimethylphthalate	163	13.181	13.181 (0.994)	145872	50.0000	58	
45 2,6-Dinitrotoluene	165	13.288	13.288 (0.973)	47589	50.0000	54	
46 Acenaphthylene	152	13.386	13.386 (0.978)	197186	50.0000	55	
47 3-Nitroaniline	138	13.624	13.624 (0.987)	38122	50.0000	52	
49 Acenaphthene-d10	164	13.647	13.647 (1.000)	75321	50.0000		
48 Acenaphthene	153	13.743	13.743 (1.006)	128206	50.0000	58	
50 2,4-Dinitrophenol	184	13.846	13.840 (1.013)	21779	50.0000	46	
51 4-Nitrophenol	139	14.002	14.002 (1.026)	15870	50.0000	36	
53 2,4-Dinitrotoluene	165	14.059	14.058 (1.030)	47175	50.0000	54	
52 Dibenzofuran	168	14.068	14.068 (1.031)	172386	50.0000	54	
54 Diethylphthalate	149	14.617	14.617 (1.070)	161898	50.0000	54	
55 Fluorene	166	14.772	14.772 (1.082)	147860	50.0000	56	
56 4-Chlorophenyl-phenylether	204	14.811	14.811 (1.084)	70728	50.0000	54	
57 4-Nitroaniline	138	14.864	14.864 (1.087)	30881	50.0000	41	
58 4,6-Dinitro-2-methylphenol	198	14.930	14.930 (1.089)	33938	50.0000	40 (Q)	
59 N-Nitrosodiphenylamine	169	14.068	14.060 (0.8973)	93060	50.0000	55	
60 2,4,6-Tribromophenol	330	15.276	15.275 (0.9108)	71955	50.0000	56	
61 4-Bromophenyl-phenylether	248	15.794	15.790 (0.941)	42693	50.0000	56	
69 Hexachlorobenzene	284	15.891	15.893 (0.947)	65545	50.0000	53	
81 Pentachlorophenol	266	16.301	16.301 (0.971)	34394	50.0000	58	
66 Phenanthrene-d10	188	16.479	16.479 (1.000)	152968	50.0000		Qhj
65 Phenanthrene	178	16.533	16.533 (0.985)	189536	50.0000	56 (Q)	
64 Anthracene	178	16.638	16.638 (1.003)	190557	50.0000	53	
67 Carbazole	167	17.175	17.175 (1.025)	132917	50.0000	46	
68 Di-n-butylphthalate	149	17.942	17.942 (1.069)	310897	50.0000	56	
80 Fluoranthene	202	19.140	19.140 (1.140)	209256	50.0000	54	
71 Pyrene	202	19.594	19.594 (0.888)	216264	50.0000	57	
70 Terphenyl-d14	244	19.950	19.950 (0.939)	168917	50.0000	56	
73 Butylbenzylphthalate	149	20.388	20.388 (0.982)	109193	50.0000	57	
74 3,3'-Dichlorobenzidine	252	22.012	22.012 (0.998)	89463	50.0000	50	

001141

Data File: S2D1264.D
Report Date: 22-Jan-2003 13:42

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug)	ON-COL (ng)	
75 Benzo(a)Anthracene	228	22.033	22.033 (0.999)	196639	50.0000	58	
76 Chrysene-d12	240	22.095	22.095 (1.000)	137242	50.0000		
77 Chrysene	228	22.163	22.103 (1.002)	178150	50.0000	54	
78 Bis(2-ethylhexyl)phthalate	149	22.174	22.174 (1.005)	142347	50.0000	56	
79 Di-n-octylphthalate	149	23.424	23.425 (0.916)	246590	50.0000	59	
82 Benzo(b)fluoranthene	252	24.063	24.063 (0.972)	176263	50.0000	58	
83 Benzo(k)fluoranthene	252	24.117	24.117 (0.974)	161011	50.0000	59	
84 Benzo(a)pyrene	252	24.467	24.467 (0.988)	159133	50.0000	58	
85 Perylene-d12	264	24.384	24.384 (1.000)	77162	50.0000		
86 Indeno(1,2,3-cd)pyrene	276	25.215	25.215 (1.009)	160540	50.0000	53	
87 Dibenz(a,h)Anthracene	278	25.280	25.280 (1.169)	136163	50.0000	50	
88 Benzo(g,h,i)perylene	276	25.960	25.960 (1.129)	157091	50.0000	55	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Operator selected an alternate compound hit.

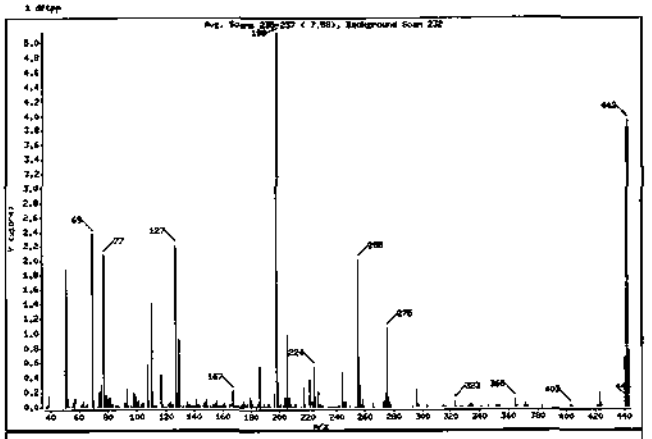
6/4/03

001142

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030210.B\S2D1273.D Page 2

Date : 19-DEC-2002 08:22
Client ID: BFTPP2F Instrument: s2.i
Sample Info: STD210A,BFTPP2F
Operator: JC
Column phase: DB-5-MS Column diameter: 0.25
1 dftpp

Avg. Scans 230-237 (7.88), Background Scan 232



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	36.38
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	44.04
70	Less than 2.00% of mass 69	0.35 (0.77)
127	40.00 - 60.00% of mass 198	43.67
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.77
275	10.00 - 30.00% of mass 198	20.74
365	Greater than 1.00% of mass 198	0.68
441	Present, but less than mass 443	12.82
442	40.00 - 99.99% of mass 198	76.64
443	17.00 - 23.00% of mass 442	15.01 (19.59)

001143

Data File: \\AVOCADRO\USERDATA\Organic\avoa\s2.1\021218_8270_1ca1.B\8280723.D

Date : 19-DEC-2002 00:32

Client ID: DFTPP2P

Instrument: s2.1

Sample Info: ST121BA,DFTPP2P

Operator: JC

Column phase: DB-5-MS

Column diameter: 0.25

Data File: 8280723.D
Spectrum: Avg. Scans 235-237 (7.58), Background Scan 232
Location of Maximum: 198.00
Number of points: 222

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	96	119.00	36	181.00	609	257.00	227
38.00	280	120.00	93	182.00	96	259.00	1315
39.00	1497	122.00	438	183.00	35	269.00	172
40.00	44	123.00	898	184.00	142	265.00	468
48.00	17	124.00	327	185.00	432	266.00	64
50.00	5097	126.00	314	186.00	5418	273.00	717
51.00	19712	127.00	22152	187.00	1859	274.00	1938
52.00	1436	128.00	1858	188.00	84	275.00	10684
53.00	33	129.00	9075	189.00	378	276.00	1436
58.00	71	130.00	914	190.00	37	277.00	766
54.00	681	131.00	132	191.00	154	278.00	116
57.00	1236	132.00	106	192.00	460	287.00	80
61.00	282	134.00	242	193.00	493	295.00	129
62.00	312	135.00	641	194.00	101	293.00	154
63.00	791	136.00	269	196.00	1796	294.00	34
64.00	106	137.00	318	198.00	84440	296.00	2332
68.00	377	138.00	78	199.00	3485	297.00	309
67.00	36	139.00	85	200.00	271	303.00	278
65.00	23690	140.00	74	201.00	325	304.00	78
70.00	182	141.00	1066	203.00	261	314.00	118
73.00	128	142.00	381	204.00	1386	315.00	233
74.00	1971	143.00	128	205.00	2681	316.00	178
75.00	3112	144.00	68	206.00	9047	321.00	43
77.00	20744	146.00	136	207.00	1327	323.00	884
78.00	1518	147.00	534	208.00	334	324.00	138
79.00	1540	148.00	1041	209.00	100	329.00	136
80.00	1066	149.00	298	210.00	37	329.00	83
81.00	1436	150.00	47	211.00	486	332.00	79
82.00	378	151.00	187	215.00	98	333.00	100
83.00	342	152.00	40	217.00	2578	334.00	802
88.00	284	153.00	313	218.00	328	335.00	126
86.00	252	154.00	244	221.00	3645	341.00	102
87.00	211	155.00	611	223.00	706	346.00	179
88.00	92	156.00	774	224.00	6441	352.00	267
91.00	304	157.00	163	228.00	1394	353.00	186

Data File: \\AVOCADRO\USERDATA\Organic\avoa\s2.1\021218_8270_1ca1.B\8280723.D

Date : 19-DEC-2002 00:32

Client ID: DFTPP2P

Instrument: s2.1

Sample Info: ST121BA,DFTPP2P

Operator: JC

Column phase: DB-5-MS

Column diameter: 0.25

Data File: 8280723.D
Spectrum: Avg. Scans 235-237 (7.58), Background Scan 232
Location of Maximum: 198.00
Number of points: 222

m/z	Y	m/z	Y	m/z	Y	m/z	Y
92.00	423	158.00	230	227.00	2048	304.00	248
93.00	2421	159.00	136	228.00	331	305.00	1089
94.00	219	160.00	398	229.00	637	306.00	188
96.00	169	161.00	473	230.00	94	371.00	79
97.00	33	162.00	124	231.00	189	373.00	486
98.00	1849	164.00	35	234.00	136	377.00	129
99.00	1368	165.00	286	235.00	140	383.00	134
100.00	129	166.00	398	236.00	98	390.00	39
101.00	624	167.00	2143	237.00	167	402.00	175
102.00	33	168.00	922	238.00	80	403.00	284
103.00	349	169.00	343	240.00	34	404.00	107
104.00	142	170.00	38	241.00	106	423.00	245
105.00	804	171.00	62	242.00	244	422.00	288
107.00	5644	172.00	156	244.00	4702	423.00	2027
108.00	967	173.00	205	245.00	666	424.00	417
110.00	12976	174.00	440	246.00	702	441.00	6648
111.00	1935	175.00	732	247.00	148	442.00	39320
112.00	284	176.00	325	249.00	163	443.00	7724
113.00	85	177.00	391	253.00	104	444.00	733
117.00	4402	178.00	1431	258.00	20094		
118.00	334	180.00	933	266.00	2956		

Data File: \\AVOCADRO\USERDATA\Organic\avoa\s2.1\021218_8270_1ca1.B\8280723.D

Date : 19-DEC-2002 00:32

Client ID: DFTPP2P

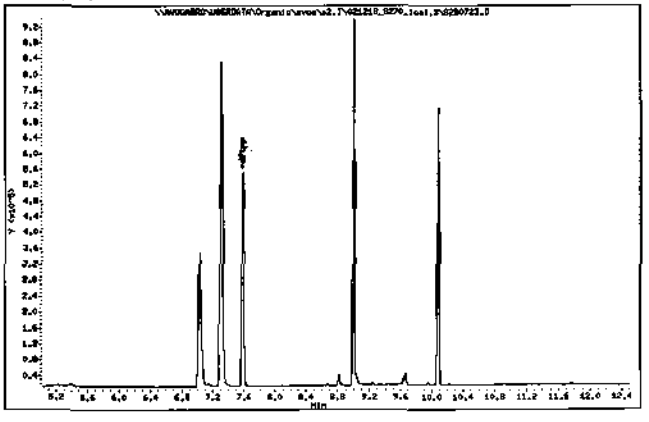
Instrument: s2.1

Sample Info: ST121BA,DFTPP2P

Operator: JC

Column phase: DB-5-MS

Column diameter: 0.25



Data File: \\AVOCADRO\USERDATA\Organic\avoa\s2.1\021226A,B\8280812.D

Date : 26-DEC-2002 16:04

Client ID: DFTPP2V

Instrument: s2.1

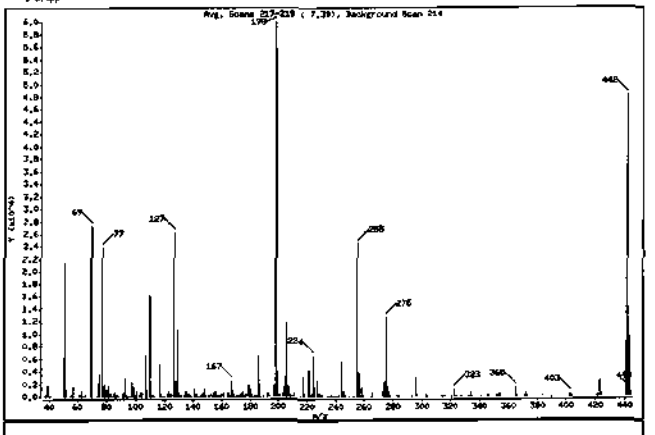
Sample Info: ST12269,DFTPP2V

Operator: MC

Column phase: DB-5-MS

Column diameter: 0.25

1 uftpp



m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	38.37
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	46.35
70	Less than 2.00% of mass 69	0.16 (0.35)
127	40.00 - 60.00% of mass 198	43.51
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.52
275	10.00 - 30.00% of mass 198	21.08
365	Greater than 1.00% of mass 198	6.88
441	Present, but less than mass 442	64.98
442	40.00 - 99.99% of mass 198	80.21
443	17.00 - 23.00% of mass 442	15.78 (19.68)

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021226A.B\5220812.D

Date : 26-DEC-2002 15:04

Client ID: DFTPP2Y

Instrument: s2.i

Sample Info: ST1226B,DFTPP2Y

Operator: WC

Column phase: DB-5-MS

Column diameter: 0.25

Data File: 5220812.D
Spectrum: Avg. Scans 217-219 (7.39), Background Scan 214
Location of Maximum: 198.00
Number of points: 222

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	138	122.00	523	183.00	38	258.00	1335
38.00	365	123.00	799	184.00	189	259.00	218
39.00	1820	124.00	357	185.00	194	264.00	34
40.00	64	126.00	334	186.00	6853	265.00	810
41.00	131	127.00	26120	187.00	1736	266.00	126
50.00	4114	128.00	2357	188.00	98	273.00	862
51.00	21592	129.00	10616	189.00	334	274.00	2308
52.00	1117	130.00	935	190.00	43	275.00	12628
55.00	216	131.00	174	191.00	200	276.00	1733
56.00	760	132.00	123	192.00	557	277.00	886
57.00	1988	134.00	275	193.00	590	278.00	120
61.00	311	135.00	706	194.00	115	283.00	93
62.00	324	136.00	315	196.00	1959	284.00	34
63.00	872	137.00	394	198.00	60032	285.00	131
64.00	156	138.00	81	199.00	4096	293.00	195
65.00	427	139.00	43	200.00	294	296.00	2901
69.00	27224	141.00	1245	201.00	341	297.00	411
70.00	94	142.00	456	203.00	387	303.00	340
73.00	68	143.00	284	204.00	1694	304.00	94
74.00	2227	144.00	39	205.00	3165	314.00	134
75.00	3883	145.00	46	206.00	11803	315.00	316
77.00	23736	146.00	243	207.00	1685	316.00	161
78.00	1703	147.00	687	208.00	385	321.00	88
79.00	1879	148.00	1271	209.00	100	323.00	1136
80.00	1152	149.00	286	210.00	76	324.00	188
81.00	1674	150.00	48	211.00	623	327.00	175
82.00	409	151.00	225	215.00	108	328.00	84
83.00	454	152.00	69	217.00	3114	332.00	70
84.00	30	153.00	386	218.00	399	333.00	106
85.00	360	154.00	299	221.00	4163	334.00	651
86.00	589	155.00	644	223.00	472	336.00	165
87.00	244	156.00	942	224.00	6568	341.00	115
88.00	53	157.00	241	225.00	1642	346.00	227
91.00	449	158.00	264	227.00	2498	352.00	323
92.00	814	159.00	193	228.00	405	353.00	235

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021226A.B\5220812.D

Date : 26-DEC-2002 15:04

Client ID: DFTPP2Y

Instrument: s2.i

Sample Info: ST1226B,DFTPP2Y

Operator: WC

Column phase: DB-5-MS

Column diameter: 0.25

Data File: 5220812.D
Spectrum: Avg. Scans 217-219 (7.39), Background Scan 214
Location of Maximum: 198.00
Number of points: 222

m/z	Y	m/z	Y	m/z	Y	m/z	Y
93.00	2032	160.00	422	229.00	867	354.00	377
94.00	268	161.00	578	230.00	87	368.00	1397
95.00	36	162.00	80	231.00	252	364.00	183
96.00	169	164.00	69	234.00	134	371.00	80
98.00	2148	165.00	487	235.00	192	372.00	618
99.00	1579	166.00	253	236.00	107	373.00	138
100.00	159	167.00	2516	237.00	216	383.00	147
101.00	880	168.00	1012	239.00	81	390.00	39
103.00	404	169.00	208	240.00	81	402.00	219
104.00	650	170.00	81	241.00	166	403.00	362
105.00	688	171.00	93	242.00	381	404.00	109
107.00	6701	172.00	211	244.00	5734	421.00	303
108.00	1104	173.00	307	245.00	814	422.00	154
110.00	16049	174.00	508	246.00	864	423.00	2446
111.00	2200	175.00	839	247.00	156	424.00	494
112.00	275	176.00	333	249.00	204	441.00	8458
113.00	84	177.00	485	252.00	37	442.00	48152
117.00	5235	179.00	1770	253.00	123	443.00	9478
118.00	419	180.00	1118	255.00	24528	444.00	846
119.00	38	181.00	509	256.00	3700		
120.00	51	182.00	47	257.00	328		

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021226A.B\5220812.D

Date : 26-DEC-2002 15:04

Client ID: DFTPP2Y

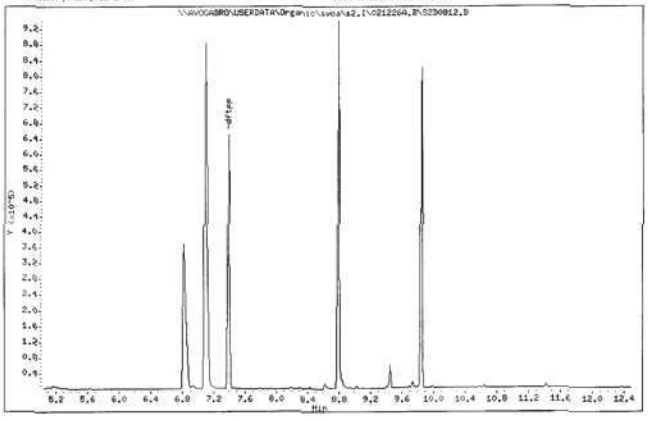
Instrument: s2.i

Sample Info: ST1226B,DFTPP2Y

Operator: WC

Column phase: DB-5-MS

Column diameter: 0.25



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021227.B\5220836.D

Date : 27-DEC-2002 10:03

Client ID: DFTPP2Z

Instrument: s2.i

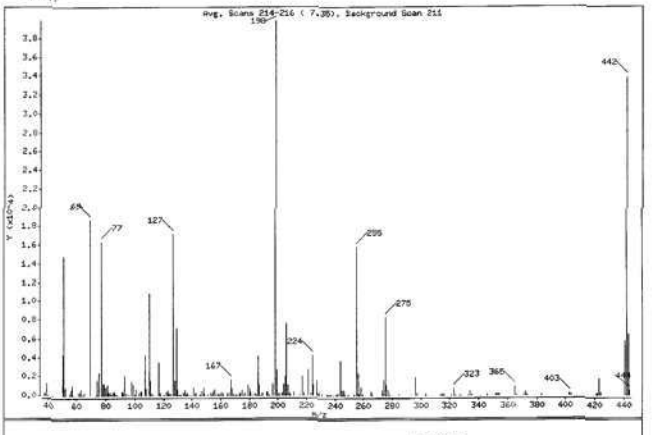
Sample Info: ST1227A,DFTPP2Z

Operator: WC

Column phase: DB-5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	37.02
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	46.81
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	43.98
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.80
275	10.00 - 30.00% of mass 198	20.84
365	Greater than 1.00% of mass 198	2.27
441	Present, but less than mass 443	14.49
442	40.00 - 77.77% of mass 198	84.96
443	17.00 - 23.00% of mass 442	16.30 (19.19)

Data File: \\NVOCADRO\USERDATA\Organic\svoa\s2.I\021227,B\B2D0836.D

Page 3

Date : 27-DEC-2002 10:03

Client ID: BFTPP2Z

Instrument: s2.i

Sample Info: ST1227A,BFTPP2Z

Operator: MC

Column phase: DB-5-MS

Column diameter: 0.25

Data File: B2D0836.D
Spectrum: Avg. Scans 214-216 (7.36). Background Scan 211
Location of Maximum: 198.00
Number of points: 208

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	64	118.00	291	180.00	741	250.00	829
38.00	838	120.00	90	181.00	375	289.00	108
39.00	1216	122.00	325	182.00	39	268.00	337
40.00	87	123.00	821	184.00	149	266.00	97
43.00	36	124.00	278	185.00	103	273.00	883
50.00	4301	125.00	229	186.00	4260	274.00	1067
51.00	14779	127.00	17192	187.00	1133	275.00	8218
52.00	844	128.00	1862	188.00	36	276.00	1110
55.00	100	129.00	7197	189.00	311	277.00	962
56.00	533	130.00	622	192.00	381	278.00	100
57.00	1041	131.00	77	193.00	401	280.00	90
60.00	38	132.00	49	194.00	55	293.00	130
61.00	237	134.00	253	196.00	1333	296.00	1068
62.00	246	135.00	515	198.00	39924	297.00	231
63.00	628	136.00	174	199.00	2715	303.00	216
64.00	50	137.00	249	200.00	208	304.00	35
68.00	312	138.00	40	201.00	225	314.00	100
69.00	18680	139.00	35	203.00	288	315.00	193
72.00	36	141.00	868	204.00	1184	316.00	115
74.00	1000	142.00	304	205.00	2060	321.00	69
75.00	2420	143.00	193	206.00	7677	323.00	698
77.00	16381	144.00	41	207.00	1115	324.00	119
78.00	1190	146.00	128	208.00	264	327.00	130
79.00	1153	147.00	424	209.00	90	328.00	33
80.00	868	148.00	862	211.00	367	333.00	37
81.00	1119	149.00	187	215.00	82	334.00	440
82.00	304	151.00	68	217.00	1999	338.00	98
83.00	303	153.00	257	218.00	263	341.00	45
84.00	74	154.00	169	221.00	8756	346.00	134
86.00	245	155.00	444	222.00	235	352.00	197
95.00	378	156.00	633	224.00	4266	353.00	145
97.00	137	157.00	139	225.00	1109	354.00	223
98.00	39	158.00	180	227.00	1581	365.00	440
91.00	332	159.00	69	228.00	261	366.00	127
92.00	328	160.00	268	229.00	344	371.00	38

Data File: \\NVOCADRO\USERDATA\Organic\svoa\s2.I\021227,B\B2D0836.D

Page 4

Date : 27-DEC-2002 10:03

Client ID: BFTPP2Z

Instrument: s2.i

Sample Info: ST1227A,BFTPP2Z

Operator: MC

Column phase: DB-5-MS

Column diameter: 0.25

Data File: B2D0836.D
Spectrum: Avg. Scans 214-216 (7.36). Background Scan 211
Location of Maximum: 198.00
Number of points: 208

m/z	Y	m/z	Y	m/z	Y	m/z	Y
93.00	1999	161.00	467	231.00	182	372.00	357
94.00	173	162.00	89	234.00	100	373.00	108
96.00	65	164.00	44	235.00	79	383.00	100
98.00	1442	165.00	321	236.00	61	407.00	145
99.00	1088	166.00	272	237.00	111	403.00	221
100.00	70	167.00	1682	239.00	45	404.00	84
101.00	644	168.00	781	241.00	94	421.00	218
103.00	270	169.00	163	242.00	216	422.00	216
104.00	415	170.00	39	244.00	3705	423.00	1722
106.00	403	171.00	88	245.00	637	424.00	338
107.00	4347	172.00	72	246.00	831	441.00	8784
108.00	736	173.00	195	247.00	98	442.00	33912
110.00	10683	174.00	310	249.00	115	443.00	4908
111.00	1549	175.00	691	251.00	50	444.00	963
112.00	168	176.00	226	268.00	15931		
113.00	38	177.00	310	284.00	2758		
117.00	3524	179.00	1091	287.00	153		

Data File: \\NVOCADRO\USERDATA\Organic\svoa\s2.I\021227,B\B2D0836.D

Page 1

Date : 27-DEC-2002 10:03

Client ID: BFTPP2Z

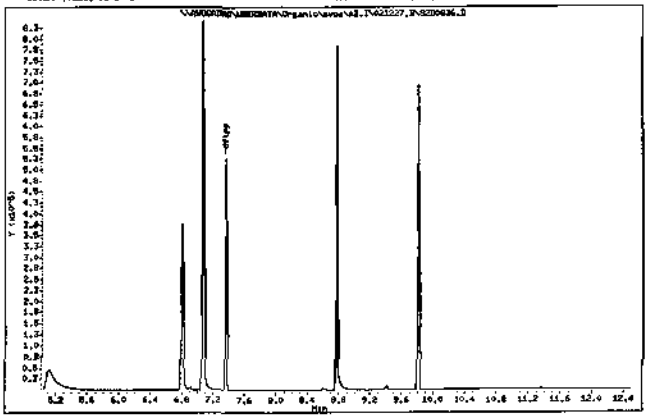
Instrument: s2.i

Sample Info: ST1227A,BFTPP2Z

Operator: MC

Column phase: DB-5-MS

Column diameter: 0.25



Data File: \\NVOCADRO\USERDATA\Organic\svoa\s2.I\030107_8270_Ical,B\B2D0932.D

Page 2

Date : 07-JAN-2003 12:10

Client ID: BFTPP2F

Instrument: s2.i

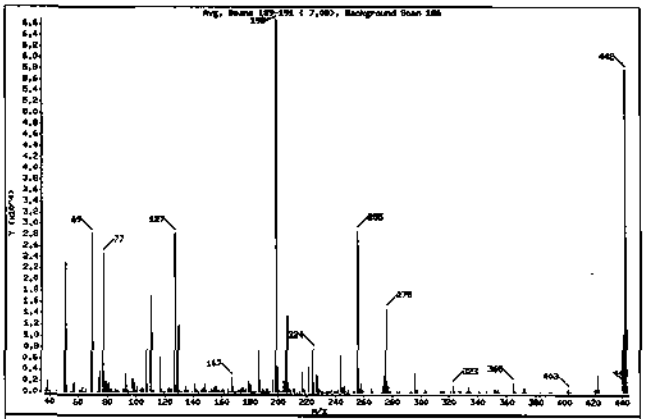
Sample Info: ST01030,BFTPP2F

Operator: JC

Column phase: DB-5-MS

Column diameter: 0.25

1 ug/ml



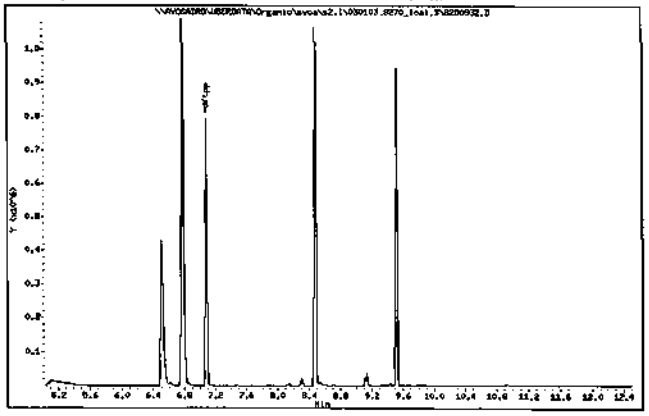
m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	34.67
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	42.39
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	42.84
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.94
275	10.00 - 30.00% of mass 198	22.63
365	Greater than 1.00% of mass 198	2.98
441	Present, but less than mass 443	18.84
442	40.00 - 99.99% of mass 198	86.66
443	17.00 - 23.00% of mass 442	16.86 (19.46)

Data File: 8200932.D
Spectrum: Avg. Scans 189-191 (7.08). Background Scan 186
Location of Maximum: 198.00
Number of points: 230

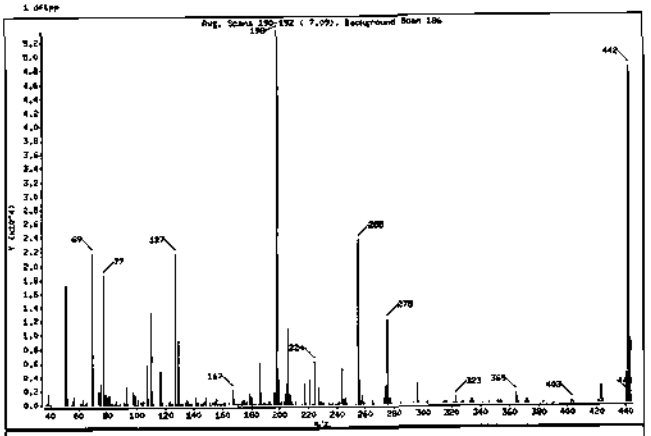
m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	131	122.00	602	187.00	2136	266.00	146
38.00	432	123.00	926	188.00	171	272.00	42
39.00	1958	124.00	450	189.00	516	273.00	1030
40.00	48	125.00	446	190.00	46	274.00	2972
41.00	84	127.00	28392	191.00	218	275.00	14718
48.00	37	128.00	1255	192.00	613	276.00	2029
49.00	36	129.00	11820	193.00	691	277.00	1038
50.00	6714	130.00	1034	194.00	169	278.00	189
51.00	23160	131.00	197	195.00	2246	282.00	117
52.00	1225	132.00	94	198.00	44800	284.00	50
68.00	223	134.00	361	199.00	4631	285.00	283
69.00	788	138.00	942	200.00	383	292.00	78
87.00	1639	136.00	381	201.00	388	293.00	277
88.00	37	137.00	448	203.00	363	294.00	44
41.00	336	139.00	88	204.00	2007	296.00	3488
92.00	271	141.00	1802	205.00	3911	297.00	484
93.00	949	142.00	806	206.00	13328	302.00	84
94.00	123	143.00	326	207.00	1838	303.00	447
95.00	442	144.00	42	208.00	458	304.00	100
69.00	28320	145.00	88	209.00	169	314.00	178
73.00	87	146.00	299	211.00	598	315.00	383
74.00	2623	147.00	710	212.00	32	316.00	275
75.00	3874	148.00	1597	215.00	172	321.00	113
77.00	24760	149.00	332	217.00	3672	322.00	1298
78.00	1679	150.00	47	218.00	483	324.00	242
79.00	1907	151.00	206	219.00	39	327.00	238
80.00	1362	152.00	41	221.00	4794	328.00	116
81.00	1869	153.00	443	224.00	7620	332.00	87
82.00	464	154.00	381	226.00	1872	333.00	129
83.00	421	155.00	771	227.00	3119	334.00	680
84.00	39	156.00	1103	228.00	408	339.00	108
85.00	337	157.00	249	229.00	641	341.00	140
86.00	873	158.00	289	230.00	58	346.00	294
87.00	243	159.00	204	231.00	294	352.00	406
88.00	50	160.00	484	232.00	36	353.00	298

Data File: 8200932.D
Spectrum: Avg. Scans 189-191 (7.08), Background Scan 186
Location of Maximum: 198.00
Number of points: 230

m/z	Y	m/z	Y	m/z	Y	m/z	Y
95.00	917	161.00	649	235.00	48	354.00	460
96.00	977	162.00	182	236.00	207	355.00	48
97.00	3367	164.00	42	238.00	254	368.00	1726
98.00	248	165.00	529	236.00	169	366.00	257
99.00	35	166.00	123	237.00	259	371.00	132
96.00	157	167.00	2679	239.00	99	372.00	729
98.00	2416	168.00	1046	240.00	49	373.00	182
99.00	1677	169.00	222	241.00	304	383.00	170
100.00	198	170.00	96	242.00	449	390.00	98
101.00	1029	171.00	43	244.00	6398	391.00	35
102.00	439	172.00	248	246.00	982	402.00	270
104.00	698	173.00	333	246.00	1684	403.00	437
105.00	662	174.00	906	247.00	248	404.00	137
107.00	7466	175.00	969	248.00	30	421.00	399
108.00	1267	176.00	387	249.00	248	422.00	236
110.00	17304	177.00	515	252.00	84	423.00	3044
111.00	2492	179.00	1998	283.00	96	424.00	578
112.00	293	180.00	1327	288.00	29852	441.00	10382
113.00	49	181.00	702	286.00	4269	442.00	57896
117.00	6311	182.00	72	287.00	612	443.00	11064
118.00	496	183.00	49	288.00	1684	444.00	1079
119.00	48	184.00	116	289.00	274		
120.00	99	186.00	7886	290.00	619		



1 deleted



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
81	30.00 - 60.00% of mass 198	32.03
69	Less than 2.00% of mass 69	0.06 (0.000)
69	Mass 69 relative abundance	46.48
70	Less than 2.00% of mass 69	0.00 (0.000)
127	40.00 - 60.00% of mass 198	40.43
157	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.78
275	10.00 - 30.00% of mass 198	22.49
365	Greater than 1.00% of mass 198	2.68
441	Present, but less than mass 443	7.78
442	40.00 - 99.99% of mass 198	89.69
443	17.00 - 23.00% of mass 442	17.16 (19.13)

Data File: \\WVOGADRO\USERDATA\Organic\avoa\a2,I\030103,B\S220942,D

Page 3

Date : 03-JAN-2003 19:06

Client ID: DFTPP2G

Instrument: a2,i

Sample Info: ST01033,DFTPP2G

Operator: JC

Column phase: DB-5-MS

Column diameter: 0.25

Data File: S220942,D
Spectrum: Avg. Scans 190-192 (7.093), Background Scan 186
Location of Maximum: 198.00
Number of points: 214

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	98	124.00	272	189.00	396	274.00	3432
38.00	299	126.00	295	191.00	193	276.00	12691
39.00	1431	127.00	21736	192.00	491	276.00	1436
40.00	158	129.00	187	193.00	940	277.00	988
41.00	34	129.00	9236	194.00	308	278.00	302
50.00	5012	130.00	786	196.00	1769	283.00	80
51.00	17216	131.00	133	198.00	157782	284.00	78
52.00	981	132.00	91	199.00	3619	285.00	146
53.00	140	134.00	250	200.00	824	293.00	228
54.00	870	135.00	696	201.00	238	296.00	2904
57.00	1189	136.00	257	203.00	364	297.00	402
58.00	77	137.00	206	204.00	1845	302.00	38
61.00	223	138.00	70	205.00	3016	303.00	356
62.00	248	141.00	1113	206.00	10844	304.00	49
63.00	683	142.00	403	207.00	1464	314.00	145
64.00	113	143.00	233	208.00	395	315.00	393
65.00	382	146.00	75	209.00	118	316.00	594
69.00	21760	146.00	191	211.00	823	321.00	97
74.00	1814	147.00	583	215.00	129	322.00	39
75.00	2929	148.00	1170	217.00	2976	329.00	1023
77.00	18608	149.00	226	218.00	371	324.00	171
78.00	1388	151.00	212	221.00	3060	327.00	109
79.00	1848	152.00	80	223.00	98	329.00	98
80.00	1079	153.00	381	224.00	8134	332.00	48
81.00	1348	154.00	248	226.00	1480	333.00	96
82.00	262	155.00	569	227.00	2286	334.00	644
83.00	309	156.00	863	228.00	390	335.00	188
84.00	34	157.00	182	229.00	819	341.00	110
95.00	212	158.00	150	230.00	77	346.00	215
86.00	434	159.00	180	231.00	206	352.00	335
87.00	169	160.00	287	234.00	109	353.00	332
88.00	75	161.00	505	235.00	161	354.00	364
91.00	370	162.00	124	236.00	104	355.00	37
92.00	207	168.00	419	237.00	160	365.00	1291
93.00	2479	167.00	2101	239.00	98	368.00	210

Data File: \\WVOGADRO\USERDATA\Organic\avoa\a2,I\030103,B\S220942,D

Page 4

Date : 03-JAN-2003 19:06

Client ID: DFTPP2G

Instrument: a2,i

Sample Info: ST01033,DFTPP2G

Operator: JC

Column phase: DB-5-MS

Column diameter: 0.25

Data File: S220942,D
Spectrum: Avg. Scans 190-192 (7.093), Background Scan 186
Location of Maximum: 198.00
Number of points: 214

m/z	Y	m/z	Y	m/z	Y	m/z	Y
94.00	149	168.00	902	240.00	93	391.00	98
96.00	89	169.00	161	241.00	127	372.00	682
98.00	1841	170.00	79	242.00	350	373.00	126
99.00	1739	171.00	87	244.00	9253	383.00	127
100.00	60	172.00	190	245.00	699	390.00	38
101.00	742	173.00	200	246.00	975	391.00	38
103.00	317	174.00	437	247.00	155	402.00	233
104.00	815	175.00	708	249.00	381	403.00	378
105.00	480	176.00	250	252.00	42	404.00	65
107.00	5696	177.00	440	253.00	170	421.00	349
108.00	946	179.00	1604	255.00	27212	422.00	179
110.00	13850	180.00	1074	256.00	3483	423.00	2838
111.00	1798	181.00	819	257.00	322	424.00	504
112.00	200	182.00	84	258.00	1323	441.00	4180
117.00	4874	183.00	33	259.00	186	442.00	48208
118.00	366	185.00	103	268.00	521	443.00	9285
120.00	77	186.00	8947	266.00	97	444.00	888
122.00	524	187.00	1688	271.00	34		
123.00	648	188.00	142	273.00	966		

Data File: \\WVOGADRO\USERDATA\Organic\avoa\a2,I\030103,B\S220942,D

Page 5

Date : 03-JAN-2003 19:06

Client ID: DFTPP2G

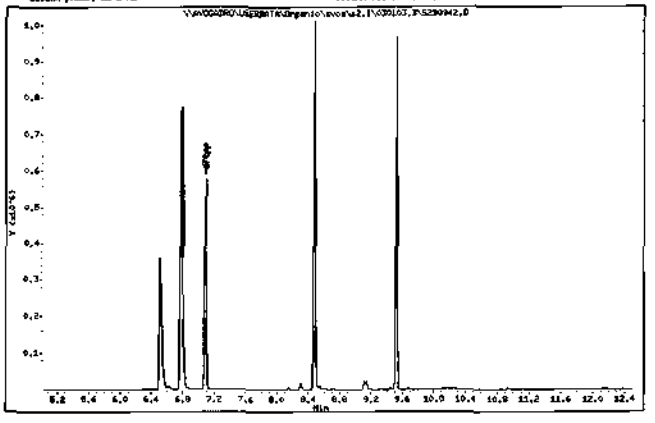
Instrument: a2,i

Sample Info: ST01033,DFTPP2G

Operator: JC

Column phase: DB-5-MS

Column diameter: 0.25



Data File: \\WVOGADRO\USERDATA\Organic\avoa\a2,I\030106,B\S220972,D

Page 8

Date : 06-JAN-2003 11:37

Client ID: DFTPP2I

Instrument: a2,i

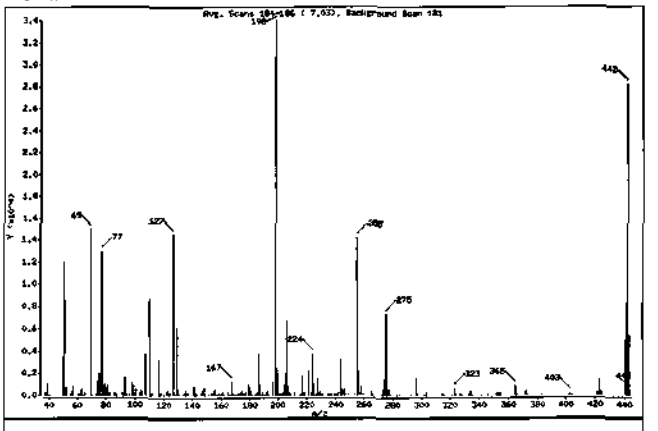
Sample Info: ST0106A,DFTPP2I

Operator: JC

Column phase: DB-5-MS

Column diameter: 0.25

1 DFTPP



m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	38.34
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	45.10
70	Less than 2.00% of mass 69	0.11 (0.24)
127	40.00 - 60.00% of mass 198	42.03
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.82
275	10.00 - 30.00% of mass 198	21.65
365	Greater than 1.00% of mass 198	0.00
441	Present, but less than mass 443	14.98
442	40.00 - 99.99% of mass 198	88.06
443	17.00 - 23.00% of mass 442	18.79 (19.01)

Date : 06-JAN-2003 11:37

Client ID: DFTPP2I Instrument: s2.i

Sample Info: ST0106A,DFTPP2I

Operator: JC

Column phase: DB-5-MS Column diameter: 0.25

Data File: SZD0972.D
Spectrum: Avg. Scans 184-186 (7.03), Background Scan 181
Location of Maximum: 198.00
Number of points: 206

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	76	123.00	462	191.00	105	272.00	39
38.00	201	124.00	194	192.00	321	273.00	521
39.00	1054	125.00	209	193.00	356	274.00	1476
40.00	28	127.00	1448p	194.00	39	275.00	7325
41.00	9	128.00	126	196.00	1138	276.00	967
50.00	3582	129.00	6126	198.00	34016	277.00	532
51.00	12020	130.00	842	199.00	2321	278.00	51
52.00	683	131.00	71	200.00	141	283.00	43
55.00	160	134.00	160	201.00	222	285.00	57
56.00	413	135.00	443	203.00	219	293.00	72
57.00	887	136.00	158	204.00	992	296.00	1675
61.00	144	137.00	203	205.00	1933	297.00	246
62.00	169	141.00	780	206.00	6714	302.00	34
63.00	518	142.00	274	207.00	876	303.00	220
64.00	34	143.00	127	208.00	224	304.00	42
68.00	218	146.00	131	209.00	48	314.00	54
69.00	15003	147.00	381	211.00	313	315.00	189
70.00	36	148.00	733	215.00	48	316.00	80
73.00	79	149.00	134	216.00	89	321.00	36
74.00	1330	151.00	89	217.00	1809	323.00	653
75.00	1961	153.00	225	218.00	219	324.00	67
77.00	12898	154.00	146	221.00	2292	327.00	67
78.00	898	155.00	373	223.00	249	328.00	34
79.00	1028	156.00	636	224.00	3779	333.00	62
80.00	744	157.00	101	225.00	967	334.00	396
81.00	948	158.00	130	226.00	40	335.00	84
82.00	226	159.00	56	227.00	1541	341.00	51
83.00	227	160.00	240	228.00	239	346.00	83
85.00	169	161.00	348	229.00	336	352.00	224
86.00	305	162.00	59	230.00	35	353.00	136
87.00	111	165.00	303	231.00	121	354.00	201
91.00	299	166.00	33	234.00	57	355.00	34
92.00	172	167.00	1237	235.00	101	365.00	865
93.00	1677	168.00	869	236.00	42	366.00	97
94.00	125	169.00	88	237.00	99	371.00	36

001164

Date : 06-JAN-2003 11:37

Client ID: DFTPP2I Instrument: s2.i

Sample Info: ST0106A,DFTPP2I

Operator: JC

Column phase: DB-5-MS Column diameter: 0.25

Data File: SZD0972.D
Spectrum: Avg. Scans 184-186 (7.03), Background Scan 181
Location of Maximum: 198.00
Number of points: 206

m/z	Y	m/z	Y	m/z	Y	m/z	Y
96.00	88	171.00	44	239.00	41	372.00	359
98.00	1196	172.00	122	240.00	40	373.00	63
99.00	933	173.00	142	241.00	57	383.00	88
100.00	46	174.00	306	242.00	196	402.00	117
101.00	533	175.00	496	244.00	3105	403.00	196
103.00	221	176.00	178	245.00	454	404.00	61
104.00	394	177.00	272	246.00	519	421.00	213
105.00	348	179.00	1007	247.00	64	422.00	209
107.00	3793	180.00	702	249.00	103	423.00	1467
108.00	654	181.00	327	253.00	65	424.00	306
110.00	8631	182.00	33	255.00	14183	441.00	4973
111.00	1279	184.00	100	256.00	2149	442.00	28249
112.00	143	185.00	269	257.00	178	443.00	5372
117.00	3204	186.00	3766	268.00	813	444.00	502
118.00	234	187.00	1085	269.00	108		
120.00	75	188.00	108	285.00	337		
122.00	332	189.00	251	286.00	38		

001165

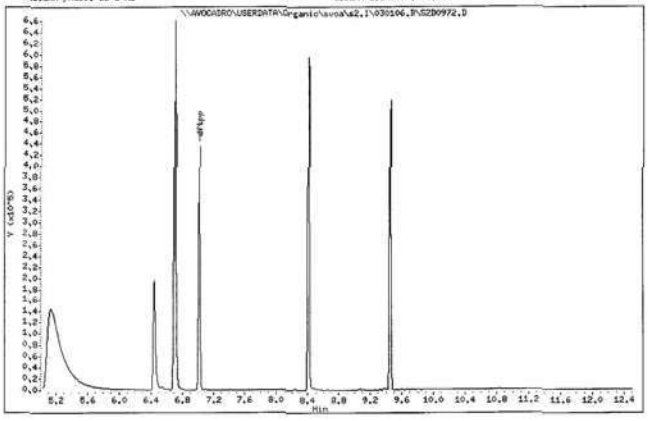
Date : 06-JAN-2003 11:37

Client ID: DFTPP2I Instrument: s2.i

Sample Info: ST0106A,DFTPP2I

Operator: JC

Column phase: DB-5-MS Column diameter: 0.25



001166

Date : 18-JAN-2003 08:22

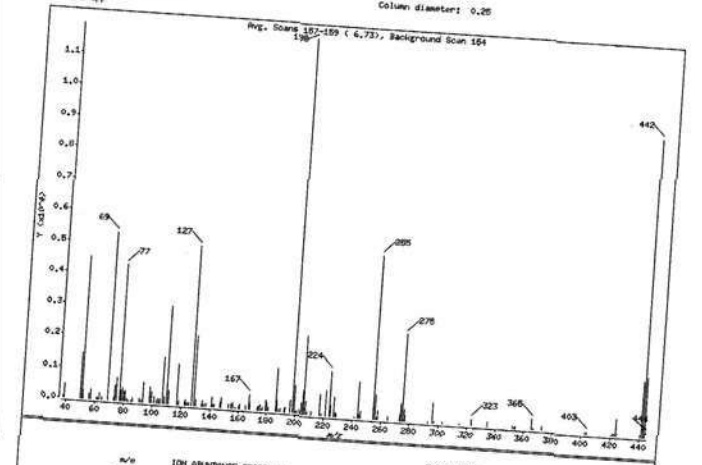
Client ID: DFTPP2A Instrument: s2.i

Sample Info: ST0118A,DFTPP2A

Operator: MC

Column phase: DB-5-MS Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	37.90
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	44.70
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	42.38
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.14
275	10.00 - 30.00% of mass 198	22.04
365	Greater than 1.00% of mass 198	2.75
441	Present, but less than mass 443	14.62
442	40.00 - 99.99% of mass 198	79.46
443	17.00 - 23.00% of mass 442	15.61 (19.64)

001167

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2,I\030118,8270_ical,B\8201198,D

Date : 18-JAN-2003 08:22

Client ID: SFTPP2A

Sample Info: ST01180,SFTPP2A

Instrument: s2.i

Operator: MC

Column phase: DB-5-MS

Column diameter: 0.25

Page 2

Data File: 8201198,D

Spectrum: Avg, Scans 187-189 (8.73), Background Scan 184

Location of Maximum: 198.00

Number of points: 138

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	91	108.00	222	177.00	109	265.00	8198
39.00	635	110.00	3079	178.00	838	266.00	772
50.00	1398	111.00	417	180.00	238	267.00	69
51.00	4812	117.00	1273	181.00	123	268.00	283
52.00	246	118.00	98	186.00	1747	265.00	121
56.00	181	122.00	117	187.00	360	273.00	198
57.00	306	123.00	150	188.00	45	274.00	846
61.00	47	124.00	87	189.00	93	276.00	2719
62.00	84	125.00	73	192.00	117	276.00	347
63.00	189	127.00	8046	193.00	121	277.00	182
68.00	78	129.00	2870	196.00	397	293.00	36
69.00	8382	130.00	801	196.00	11906	296.00	636
73.00	80	134.00	48	199.00	860	297.00	62
74.00	473	135.00	167	200.00	36	303.00	43
75.00	707	136.00	47	201.00	45	315.00	48
77.00	4304	137.00	80	203.00	100	323.00	204
78.00	316	141.00	291	204.00	344	334.00	128
79.00	416	142.00	92	205.00	702	382.00	69
80.00	298	143.00	80	206.00	2432	353.00	37
81.00	340	147.00	186	207.00	408	384.00	86
82.00	74	148.00	293	208.00	98	365.00	327
83.00	39	153.00	101	211.00	111	366.00	74
85.00	39	155.00	113	217.00	683	372.00	107
86.00	115	156.00	198	218.00	46	402.00	39
91.00	97	158.00	34	221.00	798	403.00	47
92.00	64	160.00	65	224.00	1387	421.00	84
93.00	639	161.00	129	225.00	316	422.00	48
96.00	496	165.00	122	227.00	609	423.00	329
99.00	323	167.00	465	228.00	163	424.00	63
101.00	163	168.00	263	229.00	110	441.00	1741
103.00	86	173.00	46	242.00	38	442.00	9460
104.00	149	174.00	110	244.00	1125	443.00	1858
105.00	125	175.00	160	245.00	146	444.00	137
107.00	1430	176.00	29	246.00	209		

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2,I\030118,8270_ical,B\8201199,D

Date : 18-JAN-2003 08:22

Client ID: SFTPP2A

Sample Info: ST01180,SFTPP2A

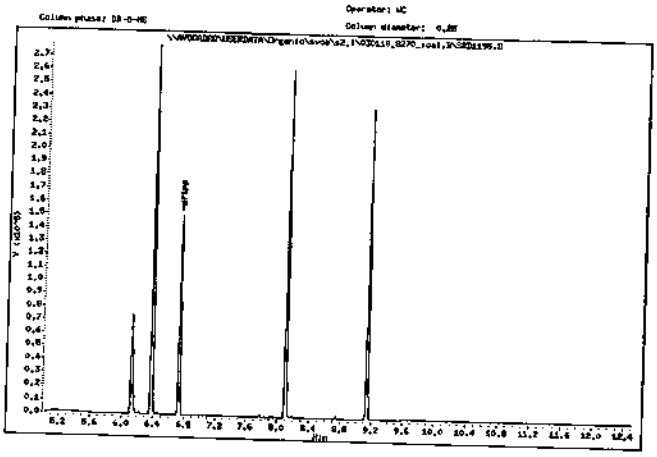
Instrument: s2.i

Operator: MC

Column phase: DB-5-MS

Column diameter: 0.25

Page 1



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2,I\030118,B\8201204,D

Date : 18-JAN-2003 14:27

Client ID: SFTPP2B

Sample Info: ST01193,SFTPP2B

Instrument: s2.i

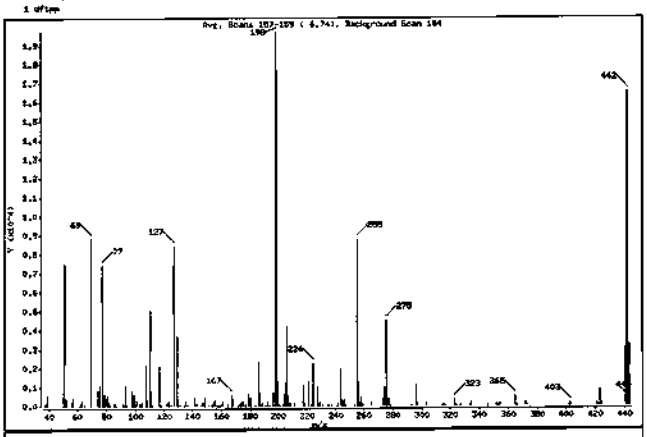
Operator: MC

Column phase: DB-5-MS

Column diameter: 0.25

Page 2

1 uAmps



m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
81	30.00 - 60.00% of mass 198	38.00
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	44.74
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	42.89
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	5.73
275	10.00 - 30.00% of mass 198	22.92
365	Greater than 1.00% of mass 198	2.86
441	Present, but less than mass 443	10.76
442	40.00 - 99.99% of mass 198	83.86
443	17.00 - 23.00% of mass 442	16.27 (19.40)

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2,I\030118,B\8201204,D

Date : 18-JAN-2003 14:27

Client ID: SFTPP2B

Sample Info: ST01193,SFTPP2B

Instrument: s2.i

Operator: MC

Column phase: DB-5-MS

Column diameter: 0.25

Page 3

Data File: 8201204,D

Spectrum: Avg, Scans 187-189 (8.74), Background Scan 184

Location of Maximum: 198.00

Number of points: 167

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	34	118.00	93	184.00	44	255.00	8793
38.00	102	122.00	178	186.00	2313	256.00	1340
39.00	899	123.00	266	187.00	469	267.00	118
50.00	2260	124.00	90	188.00	94	268.00	822
51.00	7499	128.00	95	189.00	187	259.00	63
62.00	418	127.00	8464	196.00	59	268.00	174
66.00	216	129.00	3478	192.00	121	273.00	398
67.00	475	130.00	358	193.00	223	274.00	987
61.00	62	131.00	86	194.00	40	276.00	4822
62.00	76	134.00	48	196.00	729	276.00	616
63.00	262	135.00	285	198.00	19728	277.00	362
66.00	110	136.00	68	199.00	1329	278.00	34
69.00	9828	137.00	91	200.00	69	293.00	44
74.00	870	141.00	448	204.00	64	296.00	1133
75.00	1169	142.00	134	203.00	110	297.00	143
77.00	7386	143.00	73	204.00	681	303.00	141
78.00	872	146.00	49	205.00	1262	314.00	34
79.00	689	147.00	223	206.00	4183	315.00	102
80.00	438	148.00	622	207.00	888	316.00	41
81.00	879	149.00	66	208.00	128	323.00	348
82.00	84	151.00	60	211.00	176	324.00	29
83.00	73	153.00	88	217.00	1122	327.00	42
86.00	83	154.00	78	219.00	149	334.00	245
86.00	198	155.00	241	221.00	1277	346.00	46
87.00	44	156.00	308	223.00	81	352.00	119
91.00	142	157.00	84	224.00	2217	353.00	52
92.00	61	158.00	57	225.00	586	354.00	128
93.00	1108	159.00	41	227.00	1007	368.00	506
94.00	42	160.00	127	228.00	140	366.00	35
96.00	839	161.00	236	229.00	190	372.00	293
99.00	573	168.00	138	231.00	86	373.00	36
100.00	34	167.00	588	234.00	41	402.00	89
101.00	282	168.00	354	235.00	38	403.00	117
103.00	128	172.00	69	237.00	41	421.00	114
104.00	196	171.00	73	241.00	40	422.00	68

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030118.B\S201204.D

Page 4

Date : 18-JAN-2003 14:27

Client ID: DFTPP2B

Instrument: s2.i

Sample Info: ST0118B,DFTPP2B

Operator: HC

Column phase: DB-5-MS

Column diameter: 0.25

Data File: S201204.D
Spectrum: Avg. Scans 157-159 (6.74), Background Scan 154
Location of Maximum: 198.00
Number of points: 167

m/z	Y	m/z	Y	m/z	Y	m/z	Y
105.00	202	174.00	147	242.00	134	423.00	857
107.00	2204	175.00	282	244.00	1942	424.00	173
108.00	391	176.00	66	245.00	260	441.00	3109
110.00	4981	177.00	89	246.00	342	442.00	16488
111.00	734	179.00	628	247.00	40	443.00	3210
112.00	67	180.00	433	249.00	39	444.00	277
117.00	2116	181.00	199	253.00	60		

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030118.B\S201204.D

Page 1

Date : 18-JAN-2003 14:27

Client ID: DFTPP2B

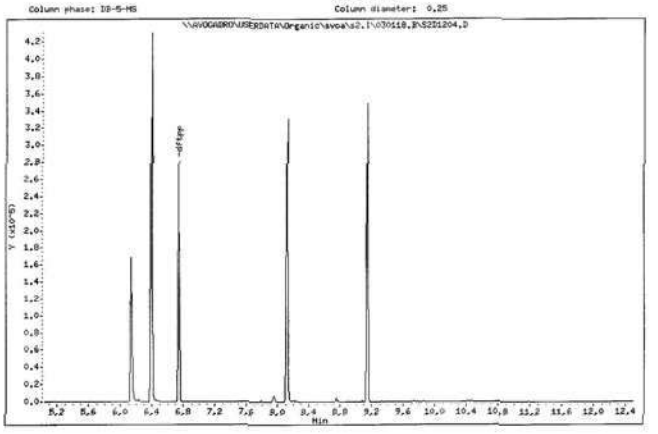
Instrument: s2.i

Sample Info: ST0118B,DFTPP2B

Operator: HC

Column phase: DB-5-MS

Column diameter: 0.25



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030121.B\S201263.D

Page 2

Date : 21-JAN-2003 10:52

Client ID: DFTPP2F

Instrument: s2.i

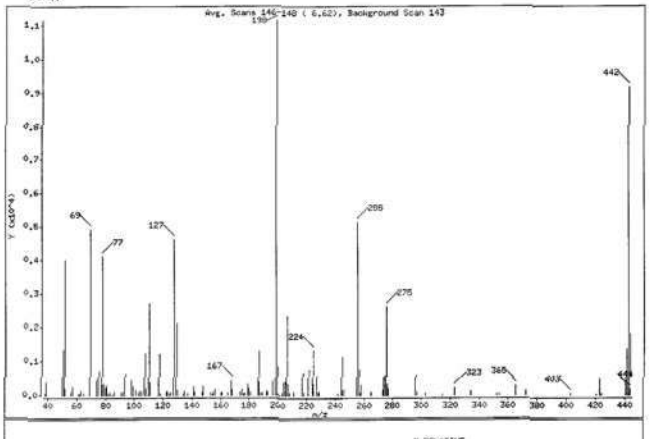
Sample Info: ST0121A,DFTPP2F

Operator: JC

Column phase: DB-5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	36.05
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	44.38
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	41.58
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.46
275	10.00 - 30.00% of mass 198	23.16
365	Greater than 1.00% of mass 198	2.57
441	*Present, but less than mass 442*	*12.24*
442	40.00 - 99.99% of mass 198	82.32
443	17.00 - 23.00% of mass 442	16.11 (19.57)

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.I\030121.B\S201263.D

Page 3

Date : 21-JAN-2003 10:52

Client ID: DFTPP2F

Instrument: s2.i

Sample Info: ST0121A,DFTPP2F

Operator: JC

Column phase: DB-5-MS

Column diameter: 0.25

Data File: S201263.D
Spectrum: Avg. Scans 146-148 (6.62), Background Scan 143
Location of Maximum: 198.00
Number of points: 126

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	58	107.00	1236	177.00	89	245.00	164
39.00	*274*	*108.00*	*201*	*179.00*	*327*	*246.00*	*191*
50.00	1334	110.00	2696	180.00	211	255.00	5130
51.00	4019	111.00	376	181.00	103	256.00	745
52.00	206	117.00	1214	186.00	1278	257.00	77
56.00	111	119.00	53	187.00	385	258.00	312
57.00	260	122.00	106	188.00	76	265.00	107
61.00	37	123.00	141	189.00	86	273.00	164
62.00	39	124.00	44	192.00	116	274.00	653
63.00	137	125.00	86	193.00	104	275.00	2582
68.00	42	127.00	4632	196.00	403	276.00	326
69.00	4944	129.00	2114	198.00	11148	277.00	194
74.00	445	130.00	153	199.00	832	296.00	596
75.00	705	134.00	34	200.00	35	297.00	90
77.00	4109	135.00	138	201.00	37	303.00	40
78.00	297	137.00	52	203.00	84	315.00	38
79.00	329	141.00	246	204.00	386	323.00	231
80.00	*232*	*142.00*	*100*	*205.00*	*299*	*334.00*	*121*
81.00	284	147.00	105	206.00	2332	352.00	44
82.00	45	148.00	289	207.00	322	354.00	45
83.00	76	153.00	76	208.00	81	365.00	286
85.00	36	154.00	34	211.00	99	372.00	117
86.00	99	155.00	111	217.00	653	403.00	45
91.00	73	156.00	186	218.00	87	421.00	38
92.00	99	160.00	79	221.00	741	423.00	478
93.00	619	161.00	101	224.00	1305	424.00	47
98.00	443	165.00	81	226.00	346	441.00	1364
99.00	264	167.00	449	227.00	574	442.00	9177
101.00	156	168.00	188	228.00	82	443.00	1796
103.00	79	174.00	95	229.00	111	444.00	191
104.00	136	175.00	177	242.00	79		
105.00	106	176.00	40	244.00	1122		

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2,I\030121,B\S2D1263.D Page 1

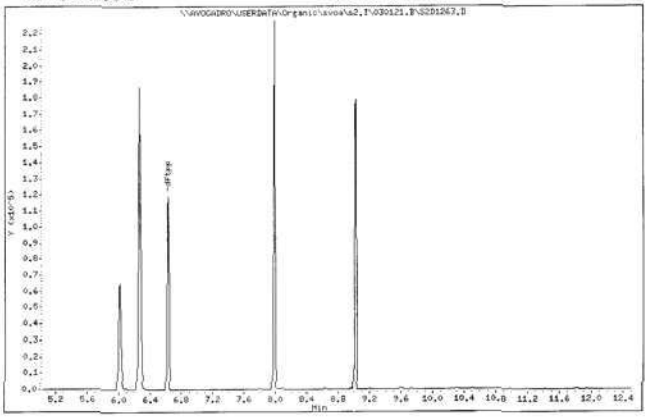
Date : 21-JAN-2003 10:52

Client ID: DFTPP2F Instrument: s2.i

Sample Info: STD121A,DFTPP2F

Operator: JC

Column phase: DB-5-MS Column diameter: 0.25



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK2E

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: MB-4910

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0818

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 12/24/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/26/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	2	J
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	3	J
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK2E

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: MB-4910

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0818

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 12/24/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/26/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SBLK2E

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: MB-4910

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0818

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 12/24/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/26/02

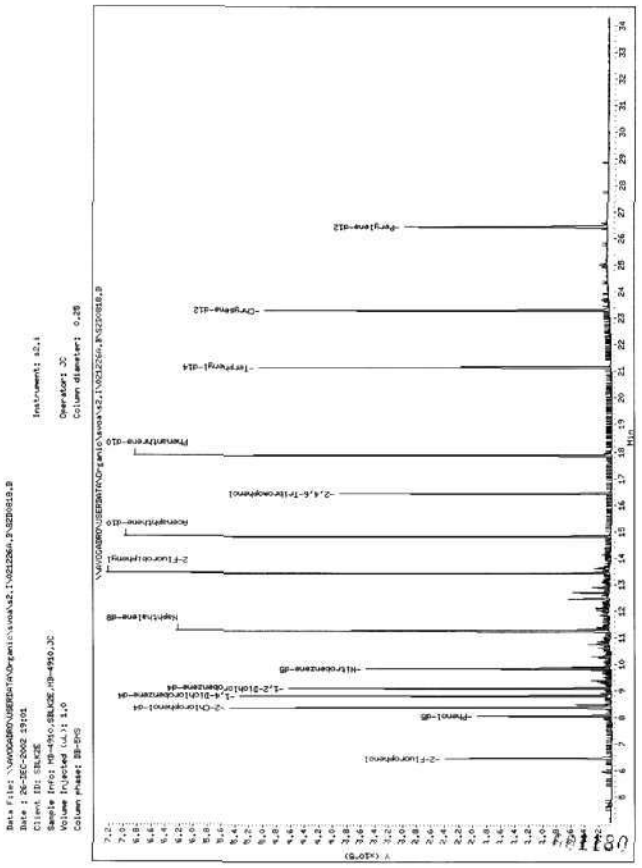
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC OLM03.0



001180

Data File: S2D0818.D
Report Date: 24-Jan-2003 14:17

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021226A.B\S2D0818.D
Lab Smp Id: MB-4910 Client Smp ID: SBLK2E
Inj Date : 26-DEC-2002 19:01
Operator : JC Inst ID: s2.i
Smp Info : MB-4910,SBLK2E,MB-4910,JC
Misc Info : 3,,BLANK,1,,,,,,,24-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021226A.B\s2_8270C.m
Meth Date : 27-Dec-2002 14:12 mtl Quant Type: ISTD
Cal Date : 19-DEC-2002 04:39 Cal File: S2D0729.D
Als bottle: 30 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)	
$	3 2-Fluorophenol	112	6.471	6.483	(0.715)	156917	26.8456	27	
$	5 Phenol-d5	99	8.057	8.081	(0.915)	124157	16.6865	17	
$	9 2-Chlorophenol-d4	132	8.371	8.393	(0.951)	283040	48.2410	48	
*	12 1,4-Dichlorobenzene-d4	152	8.802	8.815	(1.000)	155564	40.0000		
$	14 1,2-Dichlorobenzene-d4	152	9.083	9.106	(1.032)	130507	33.1848	33	
$	22 Nitrobenzene-d5	82	9.839	9.862	(0.874)	197327	39.1062	39	
*	31 Naphthalene-d8	136	11.253	11.276	(1.000)	524064	40.0000		
	32 Naphthalene	128	11.296	11.319	(1.004)	23437	1.72427	2	(a)
	36 2-Methylnaphthalene	142	12.689	12.712	(1.126)	25186	2.89718	3	(a)
$	41 2-Fluorobiphenyl	172	13.433	13.446	(0.907)	368980	41.4631	41	
*	48 Acenaphthene-d10	164	14.815	14.838	(1.000)	270612	40.0000		
$	60 2,4,6-Tribromophenol	330	16.434	16.447	(0.919)	91869	62.0695	62	
*	64 Phenanthrene-d10	188	17.870	17.882	(1.000)	420824	40.0000		
$	72 Terphenyl-d14	244	21.141	21.153	(0.907)	289080	34.0164	34	

001181

Data File: S2D0818.D
Report Date: 24-Jan-2003 14:17

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)	
*	76 Chrysene-d12	240	23.300	23.312	(1.000)	343153	40.0000		
	78 Bis(2-Ethylhexyl)phthalate	149	23.311	23.323	(1.000)	16459	2.16884	2	(a)
*	83 Perylene-d12	264	26.442	26.454	(1.000)	219842	40.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

1/24/03

001182

Data File: S2D0818.D
Report Date: 24-Jan-2003 14:17

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021226A.B\S2D0818.D
Lab Smp Id: MB-4910 Client Smp ID: SBLK2E
Inj Date : 26-DEC-2002 19:01
Operator : JC Inst ID: s2.i
Smp Info : MB-4910,SBLK2E,MB-4910,JC
Misc Info : 3,,BLANK,1,,,,,,,24-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021226A.B\s2_8270C.m
Meth Date : 27-Dec-2002 14:12 mtl Quant Type: ISTD
Cal Date : 19-DEC-2002 04:39 Cal File: S2D0729.D
Als bottle: 30 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

ISTD	RT	AREA	AMOUNT
* 12 1,4-Dichlorobenzene-d4	8.802	887011	40.000

RT	AREA	CONCENTRATIONS ON-COL(ng)	CONCENTRATIONS FINAL(ug/L)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	QUANT CPND #
Straight-chain Alkane					CAS #:		
9.893	93374	4.21072568	4	D		0	12

001183

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2,I\021226A,B\S2D0818,D

Date : 26-DEC-2002 19:01

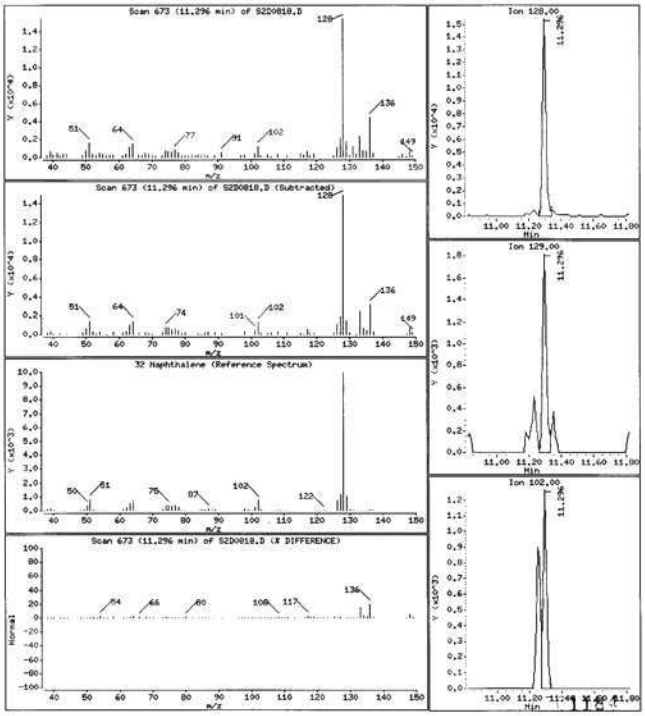
Client ID: SBLK2E Instrument: s2.i

Sample Info: MB-4910,SBLK2E,MB-4910,JC

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

32 Naphthalene Concentration: 2 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2,I\021226A,B\S2D0818,D

Date : 26-DEC-2002 19:01

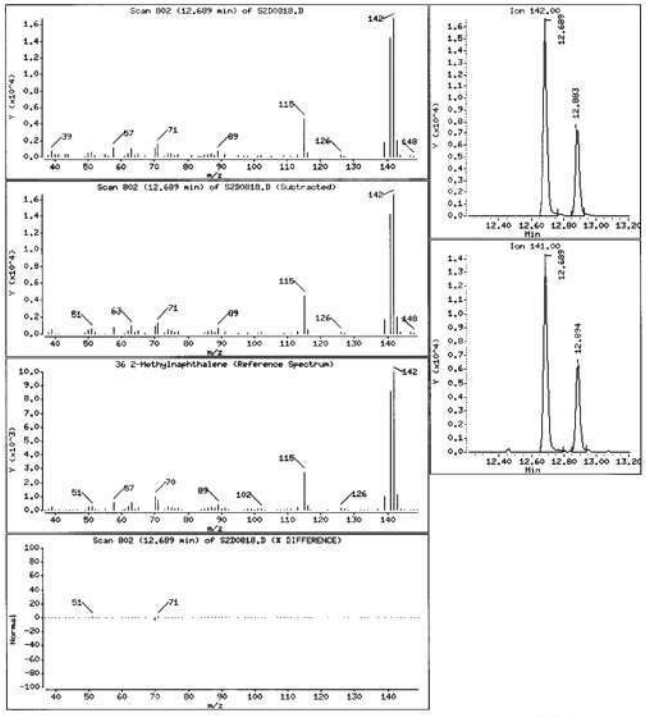
Client ID: SBLK2E Instrument: s2.i

Sample Info: MB-4910,SBLK2E,MB-4910,JC

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

36 2-Methylnaphthalene Concentration: 3 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2,I\021226A,B\S2D0818,D

Date : 26-DEC-2002 19:01

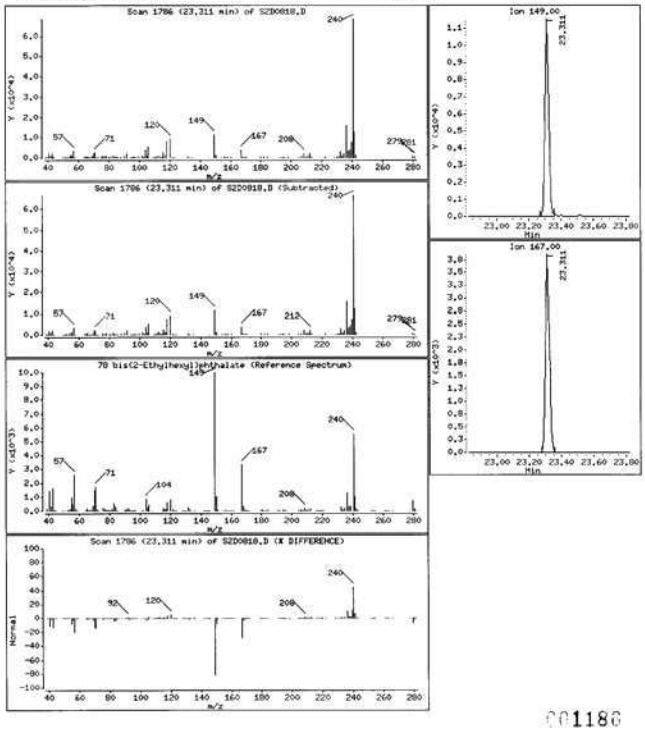
Client ID: SBLK2E Instrument: s2.i

Sample Info: MB-4910,SBLK2E,MB-4910,JC

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

78 bis(2-Ethylhexyl)phthalate Concentration: 2 ug/L



Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2,I\021226A,B\S2D0818,D

Date : 26-DEC-2002 19:01

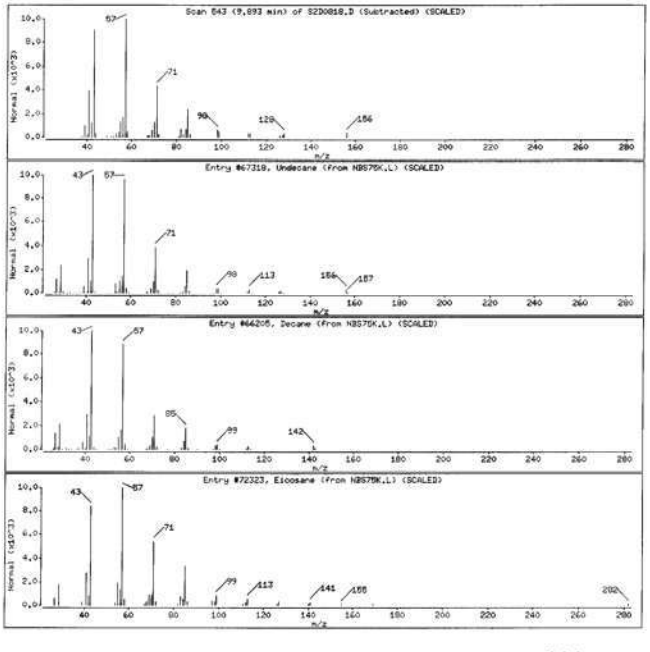
Client ID: SBLK2E Instrument: s2.i

Sample Info: MB-4910,SBLK2E,MB-4910,JC

Volume Injected (uL): 1.0 Operator: JC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Straight-chain Alkane						
Undecane	1120-21-4	NBS75K.L	67318	98	C11H24	156
Decane	124-18-5	NBS75K.L	66206	90	C10H22	142
Eicosane	112-95-8	NBS75K.L	72323	90	C20H42	282



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK2F

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: MB-4921

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0838

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/27/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	10	U

FORM I SV-1 OLM03.0

1188

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK2F

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: MB-4921

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0838

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/27/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	3	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

1189

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK2F

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: MB-4921

Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0838

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/27/02

Injection Volume: 1.0(uL) Dilution Factor: 1.0

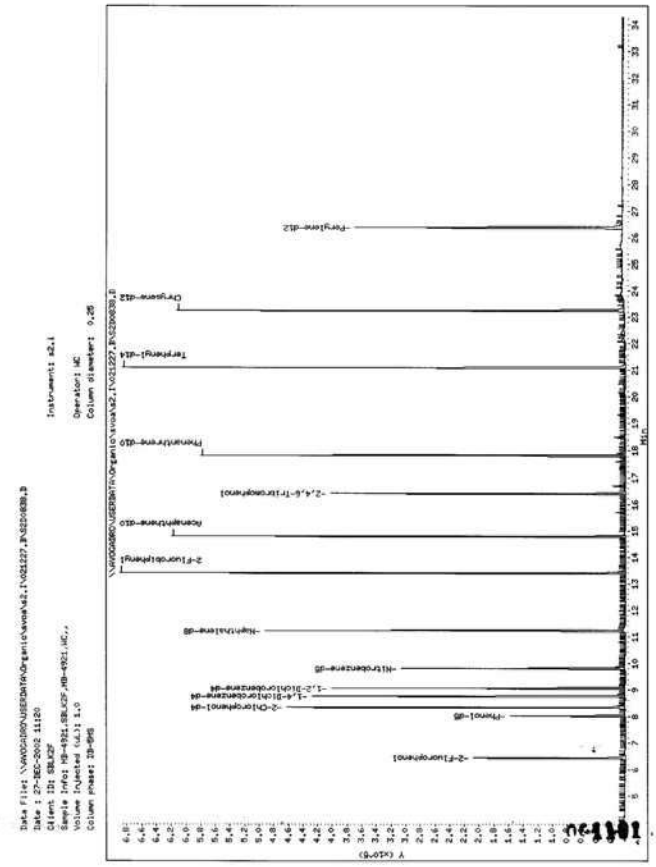
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC OLM03.0

1190



1191

Data File: S2D0838.D
Report Date: 24-Jan-2003 14:30

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021227.B\S2D0838.D
Lab Smp Id: MB-4921 Client Smp ID: SBLK2F
Inj Date : 27-DEC-2002 11:20
Operator : WC Inst ID: s2.i
Smp Info : MB-4921,SBLK2F,MB-4921,WC,,
Misc Info : 0,,BLANK,1,,1000,1000,,,,26-DEC-02,
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021227.B\s2_8270C.m
Meth Date : 27-Dec-2002 11:15 mtl Quant Type: ISTD
Cal Date : 19-DEC-2002 04:39 Cal File: S2D0729.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	QUANT RIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
6	2-Fluorophenol	112	8.447	8.450	(0.735)	173823	30.6885	31
8	Phenol-d5	99	8.034	8.047	(0.914)	106446	19.4753	19
9	2-Chlorophenol-d4	132	8.347	8.350	(0.952)	244650	36.8264	37
*	12 1,4-Dichlorobenzene-d4	152	8.768	8.771	(1.000)	114267	40.0000	
5	14 1,2-Dichlorobenzene-d4	152	9.060	9.063	(1.033)	109859	45.1395	45
8	22 Nitrobenzene-d5	82	9.805	9.819	(0.972)	172052	43.8193	44
*	28 Naphthalene-d8	136	11.230	11.252	(1.000)	407888	40.0000	
5	41 2-Fluorobiphenyl	172	13.388	13.402	(0.987)	741542	45.8906	46
*	48 Acenaphthene d10	164	14.781	14.789	(1.000)	224598	40.0000	
8	60 2,4,6-Tribromophenol	330	16.390	16.405	(0.919)	72232	69.0271	69
*	64 Phenanthrene-d10	188	17.838	17.853	(1.000)	260314	40.0000	
8	72 Terphenyl d14	244	21.107	21.109	(0.904)	351527	40.8854	40
*	76 Chrysene-d12	240	23.255	23.268	(1.000)	350481	40.0000	
	78 bis(2-Ethylhexyl)phthalate	149	21.277-23.279		(1.002)	23613	3.69666	>[A]

Data File: S2D0838.D
Report Date: 24-Jan-2003 14:30

Compounds	QUANT RIO MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 43 Perylene-d12	264	26.366	26.388	(1.000)	269829	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

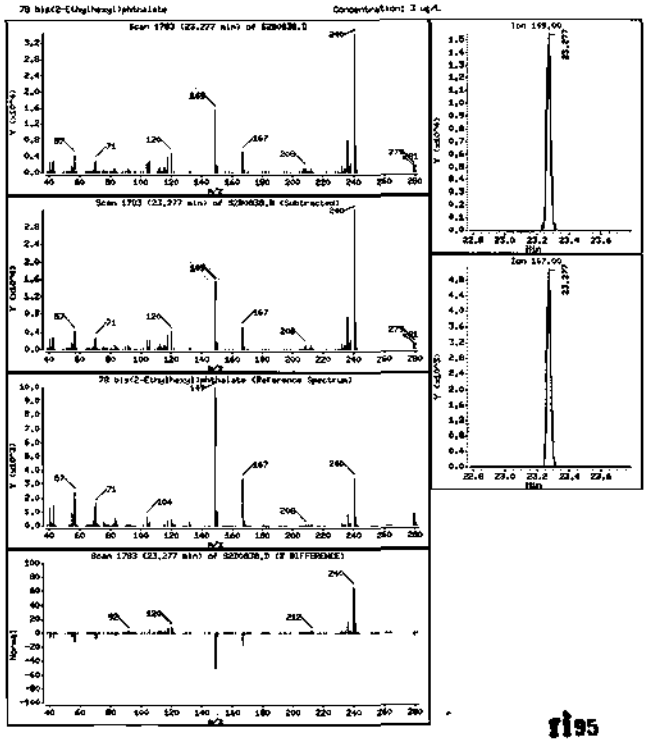
1/24/03

Data File: S2D0838.D
Report Date: 24-Jan-2003 14:30

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021227.B\S2D0838.D
Lab Smp Id: MB-4921 Client Smp ID: SBLK2F
Inj Date : 27-DEC-2002 11:20
Operator : WC Inst ID: s2.i
Smp Info : MB-4921,SBLK2F,MB-4921,WC,,
Misc Info : 0,,BLANK,1,,1000,1000,,,,26-DEC-02,
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021227.B\s2_8270C.m
Meth Date : 27-Dec-2002 11:15 mtl Quant Type: ISTD
Cal Date : 19-DEC-2002 04:39 Cal File: S2D0729.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

- NO TENTATIVELY IDENTIFIED COMPOUNDS -



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK2U

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: MB-4928

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D1206

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:12/27/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/18/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	670	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	670	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	670	U
83-32-9	Acenaphthene	330	U

FORM I SV-1 OLM03.0

1196

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
SBLK2U

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: MB-4928

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D1206

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:12/27/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/18/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	670	U
100-02-7	4-Nitrophenol	670	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	670	U
534-52-1	4,6-Dinitro-2-methylphenol	670	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	670	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

1197

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SBLK2U

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: MB-4928

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D1206

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/27/02

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/18/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

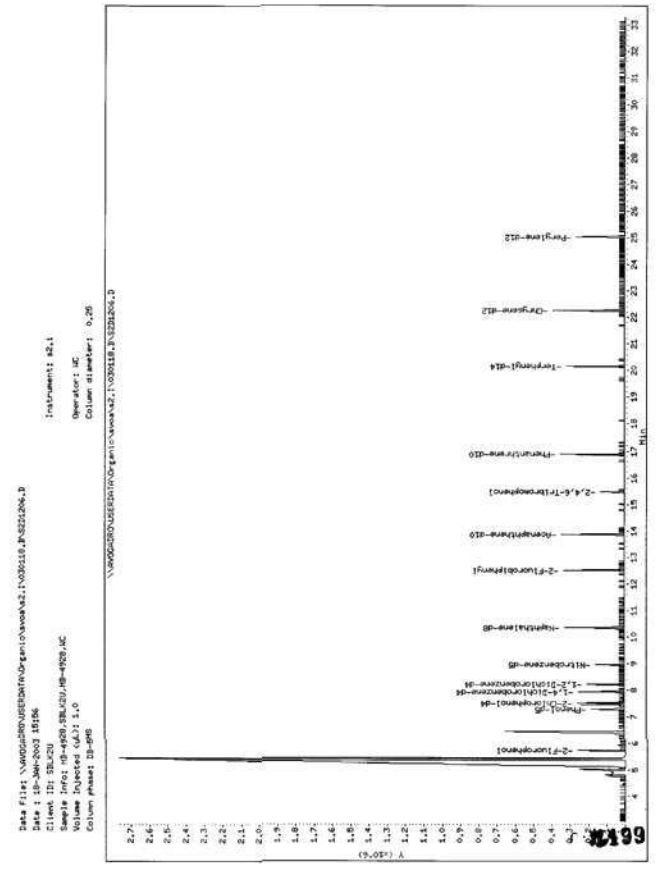
GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.47	1100	J
2.	UNKNOWN	10.28	180	J
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM03.0

1198



1199

Data File: S2D1206.D
Report Date: 24-Jan-2003 13:44

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030118.B\S2D1206.D
Lab Smp Id: MB-4928 Client Smp ID: SBLK2U
Inj Date : 18-JAN-2003 15:56
Operator : WC Inst ID: s2.i
Smp Info : MB-4928,SBLK2U,MB-4928,WC
Misc Info : 3,,BLANK,2,,,,,,,27-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030118.B\s2_8270C.m
Meth Date : 19-Jan-2003 12:00 mtl Quant Type: ISTD
Cal Date : 18-JAN-2003 12:56 Cal File: S2D1202.D
Als bottle: 81 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

	Compounds	QUANT STG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
$	1 2-Fluorophenol	112	5.740	5.674	(0.924)	101526	45.5564	1500
$	5 Phenol-d5	99	7.295	7.272	(0.920)	144816	53.3495	1800
$	9 2 Chlorophenol-d4	132	7.532	7.520	(0.950)	115625	50.0320	1700
*	12 1,4-Dichlorobenzene-d4	152	7.931	7.930	(1.000)	69680	40.0000	
$	14 1,2-Dichlorobenzene-d4	152	8.212	8.211	(1.035)	50464	35.5817	1200
$	22 Nitrobenzene-d5	82	8.968	8.966	(0.866)	77364	34.2621	1100
*	31 Naphthalene-d8	136	10.350	10.348	(1.000)	251413	40.0000	
$	41 2-Fluorobiphenyl	172	12.539	12.529	(0.903)	161846	34.6965	1200
*	48 Acenaphthene-d10	164	13.869	13.867	(1.000)	136948	40.0000	
$	60 2,4,6-Tribromophenol	330	15.467	15.476	(0.916)	97302	37.9979	1300
*	64 Phenanthrene-d10	188	16.881	16.890	(1.000)	243256	40.0000	
$	72 Terphenyl-d14	244	20.162	20.161	(0.905)	192572	36.6672	1200
*	76 Chrysene-d12	240	22.267	22.277	(1.000)	255638	40.0000	

1200

Data File: S2D1206.D
Report Date: 24-Jan-2003 13:44

Compounds	QUANT STG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
* 83 Perylene-d12	264	25.042	25.040	(1.000)	170097	40.0000	

1/24/03

1201

Data File: S2D1206.D
Report Date: 30-Jan-2003 08:37

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030118.B\S2D1206.D
Lab Smp Id: MB-4928 Client Smp ID: SBLK2U
Inj Date : 18-JAN-2003 15:56
Operator : WC Inst ID: s2.i
Smp Info : MB-4928,SBLK2U,MB-4928,WC
Misc Info : 3,,BLANK,2,,,,,,,27-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030118.B\s2_8270C.m
Meth Date : 24-Jan-2003 13:57 mtl Quant Type: ISTD
Cal Date : 18-JAN-2003 12:56 Cal File: S2D1202.D
Als bottle: 81 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

ISTD	RT	AREA	AMOUNT
* 12 1,4-Dichlorobenzene-d4	7.932	392806	40.000
* 31 Naphthalene-d8	10.350	517500	40.000

RT	AREA	CONCENTRATIONS ON-COL(ng)	CONCENTRATIONS FINAL(ug/Kg)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	QUANT CMPD #
Unknown		CAS #:					
7.467	914553	32.0313844	1100	0		0	12

1202

Data File: S2D1206.D
Report Date: 30-Jan-2003 08:37

RT	AREA	CONCENTRATIONS ON-COL(ng)	CONCENTRATIONS FINAL(ug/Kg)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	QUANT CMPD #
Unknown		CAS #:					
10.385	69124	5.34291787	180	0		0	31

1203

Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.1\030118.B\S2D1206.D

Date : 18-JAN-2003 15:56

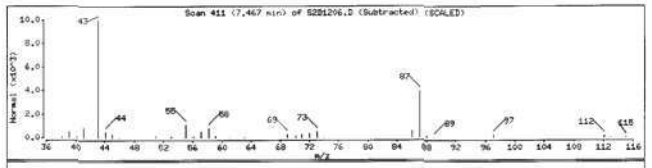
Client ID: SBLK2U Instrument: s2.1

Sample Info: MB-4928,SBLK2U,MB-4928,WC

Volume Injected (uL): 1.0 Operator: WC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\AVOGADRO\USERDATA\Organic\avoa\s2.1\030118.B\S2D1206.D

Date : 18-JAN-2003 15:56

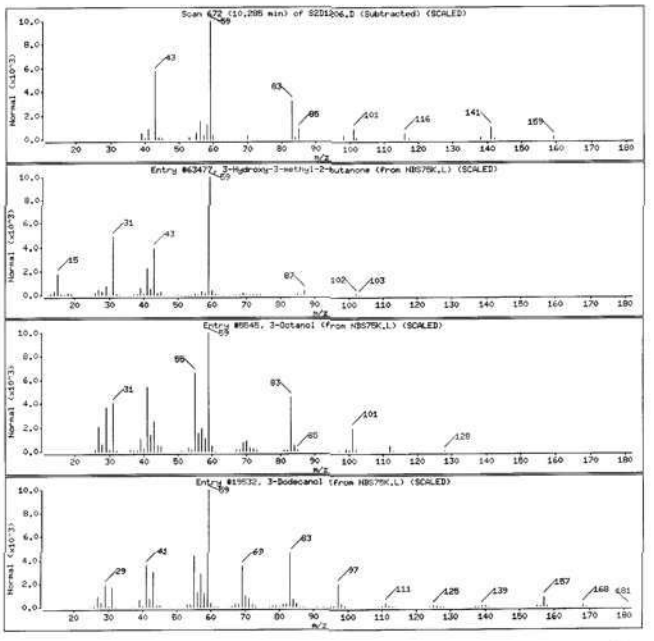
Client ID: SBLK2U Instrument: s2.1

Sample Info: MB-4928,SBLK2U,MB-4928,WC

Volume Injected (uL): 1.0 Operator: WC

Column phase: DB-5MS Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
3-Hydroxy-3-methyl-2-butanone	115-22-0	NBS75K.L	63477	43	C5H10O2	102
3-Octanol	589-98-0	NBS75K.L	9545	39	C8H18O	130
3-Dodecanol	10203-30-2	NBS75K.L	19532	39	C12H26O	186



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: SBLK2A

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: MB-5197

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D1265

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/20/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	*2-Methylphenol*	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	670	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	670	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	670	U
83-32-9	Acenaphthene	330	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: SBLK2A

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: MB-5197

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D1265

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/20/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	670	U
100-02-7	4-Nitrophenol	670	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	670	U
534-52-1	4,6-Dinitro-2-methylphenol	670	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	670	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK2A

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: MB-5197

Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D1265

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 01/20/03

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03

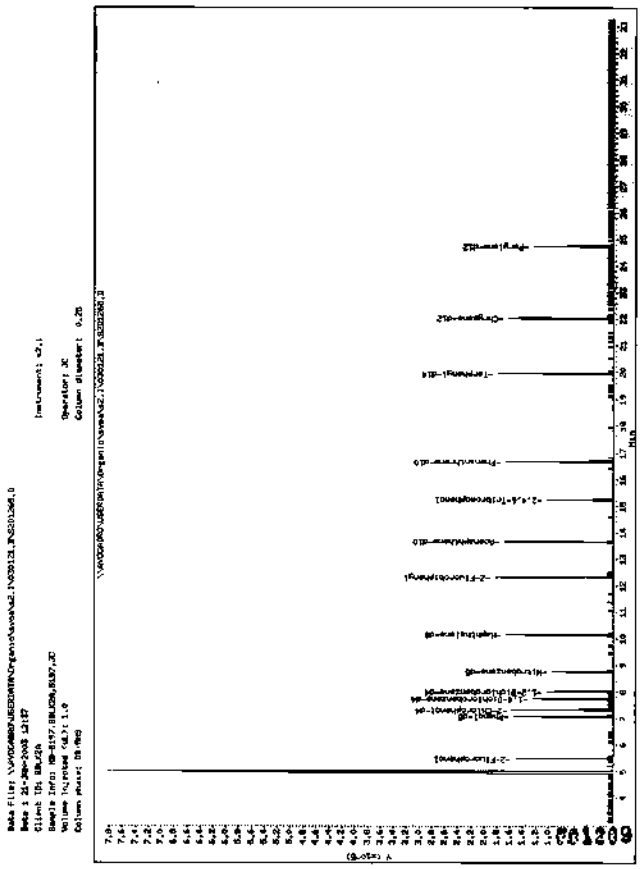
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I SV-TIC OLM03.0



Data File: S2D1265.D
Report Date: 24-Jan-2003 11:34

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1265.D
Lab Smp Id: MB-5197 Client Smp ID: SBLK2A
Inj Date : 21-JAN-2003 12:17
Operator : JC Inst ID: s2.i
Smp Info : MB-5197,SBLK2A,5197,JC
Misc Info : 3,,BLANK,1,,,,,,,17-JAN-03
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\s2_8270C.m
Meth Date : 22-Jan-2003 13:42 mtl Quant Type: ISTD
Cal Date : 18-JAN-2003 12:56 Cal File: S2D1202.D
Als bottle: 31 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/kg)	
$	1 2-Fluorophenol	112	3.506	3.506	(0.711)	84716	41.3447	83	
$	5 Phenol-d5	99	7.093	7.104	(0.918)	91219	44.7998	89	
$	7 2-Chlorophenol-d4	132	7.338	7.341	(0.947)	69716	43.7434	84	
*	12 1,4-Dichlorobenzene-d4	152	7.940	7.751	(1.000)	52971	40.0000	(Q)	
$	14 1,2-Dichlorobenzene-d4	152	8.010	8.021	(1.035)	37159	40.5125	81	
$	22 Nitrobenzene-d5	82	8.766	8.777	(0.886)	42999	40.9139	81	
*	31 Naphthalene-d8	136	10.148	10.159	(1.000)	117921	40.0000		
$	43 2-Fluorobiphenyl	172	11.317	11.328	(0.923)	89705	41.4752	83	
*	49 Acenaphthene-d10	164	11.536	11.547	(1.000)	62797	40.0000		
$	58 2,4,6-Tribromophenol	330	13.294	13.305	(0.918)	20188	42.4678	82	
*	64 Phenanthrene-d10	188	16.668	16.679	(1.000)	109412	40.0000		
$	72 Terphenyl-d14	244	19.550	19.550	(0.905)	101364	47.4492	48	
*	76 Chrysene-d12	240	22.033	22.055	(1.000)	106196	40.0000		
*	81 Perylene-d12	264	24.783	24.784	(1.000)	76210	40.0000		

1/29/03

Data File: S2D1265.D
Report Date: 24-Jan-2003 11:34

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: S2D1265.D
Report Date: 30-Jan-2003 08:39

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1265.D
Lab Smp Id: MB-5197 Client Smp ID: SBLK2A
Inj Date : 21-JAN-2003 12:37
Operator : JC Inst ID: s2.i
Smp Info : MB-5197,SBLK2A,5197,JC
Misc Info : 3,,BLANK,1,,,,,,,20-JAN-03
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\s2_8270C.m
Meth Date : 27-Jan-2003 11:54 mtl Quant Type: ISTD
Cal Date : 18-JAN-2003 12:56 Cal File: S2D1202.D
Als bottle: 31 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S2ELCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER *Lab Sample ID: LCS-4910*
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0819
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/26/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	14	
111-44-4	bis(2-Chloroethyl)Ether	35	
95-57-8	2-Chlorophenol	34	
541-73-1	1,3-Dichlorobenzene	38	
106-46-7	1,4-Dichlorobenzene	38	
95-50-1	1,2-Dichlorobenzene	39	
95-48-7	2-Methylphenol	32	
108-60-1	2,2'-oxybis(1-Chloropropane)	38	
106-44-5	4-Methylphenol	27	
621-64-7	N-Nitroso-di-n-propylamine	43	
67-72-1	Hexachloroethane	38	
98-95-3	Nitrobenzene	37	
78-59-1	Isophorone	42	
88-75-5	2-Nitrophenol	36	
105-67-9	2,4-Dimethylphenol	37	
120-83-2	2,4-Dichlorophenol	38	
120-82-1	1,2,4-Trichlorobenzene	39	
91-20-3	Naphthalene	40	B
106-47-8	4-Chloroaniline	15	
111-91-1	bis(2-Chloroethoxy)methane	39	
87-68-3	Hexachlorobutadiene	39	
59-50-7	4-Chloro-3-Methylphenol	40	
91-57-6	2-Methylnaphthalene	40	B
77-47-4	Hexachlorocyclopentadiene	40	
88-06-2	2,4,6-Trichlorophenol	40	
95-95-4	2,4,5-Trichlorophenol	41	
91-58-7	2-Chloronaphthalene	41	
88-74-4	2-Nitroaniline	39	
131-11-3	Dimethylphthalate	41	
208-96-8	Acenaphthylene	42	
606-20-2	2,6-Dinitrotoluene	41	
99-09-2	3-Nitroaniline	37	
83-32-9	Acenaphthene	43	

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

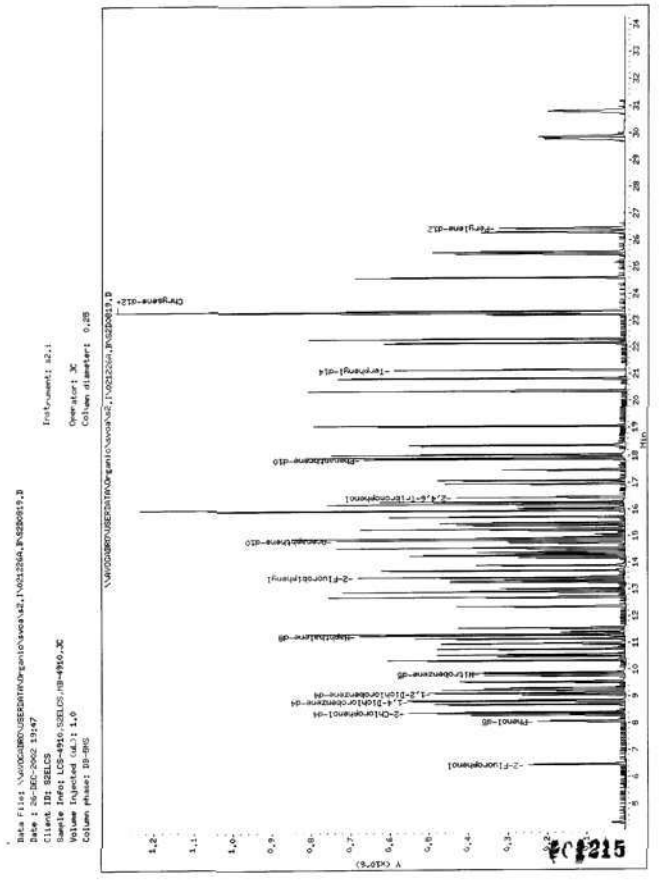
EPA SAMPLE NO.
S2ELCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: LCS-4910
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0819
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/24/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/26/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	31	
100-02-7	4-Nitrophenol	13	J
132-64-9	Dibenzofuran	40	
121-14-2	2,4-Dinitrotoluene	41	
84-66-2	Diethylphthalate	42	
7005-72-3	*4-Chlorophenyl-phenylether*	42	
86-73-7	Fluorene	43	
100-01-6	4-Nitroaniline	42	
534-52-1	4,6-Dinitro-2-methylphenol	37	
86-30-6	N-Nitrosodiphenylamine (1)	54	
101-55-3	4-Bromophenyl-phenylether	40	
118-74-1	Hexachlorobenzene	43	
87-86-5	Pentachlorophenol	37	
85-01-8	Phenanthrene	43	
120-12-7	Anthracene	43	
86-74-8	Carbazole	55	
84-74-2	Di-n-butylphthalate	42	
206-44-0	Fluoranthene	41	
129-00-0	Pyrene	41	
85-68-7	Butylbenzylphthalate	40	
91-94-1	3,3'-Dichlorobenzidine	37	
56-55-3	Benzo(a)anthracene	41	
218-01-9	Chrysene	37	
117-81-7	bis(2-Ethylhexyl)phthalate	46	B
117-84-0	Di-n-octylphthalate	35	
205-99-2	Benzo(b)fluoranthene	32	
207-08-9	Benzo(k)fluoranthene	40	
50-32-8	Benzo(a)pyrene	33	
193-39-5	Indeno(1,2,3-cd)pyrene	30	
53-70-3	Dibenzo(a,h)anthracene	32	
191-24-2	Benzo(g,h,i)perylene	32	

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0



Data File: S2D0819.D
Report Date: 24-Jan-2003 14:16

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021226A.B\S2D0819.D
Lab Smp Id: LCS-4910 Client Smp ID: S2ELCS
Inj Date : 26-DEC-2002 19:47
Operator : JC Inst ID: s2.i
Smp Info : LCS-4910,S2ELCS,MB-4910,JC
Misc Info : 3,,LCS,1,,,,,,24-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021226A.B\s2_8270C.m
Meth Date : 27-Dec-2002 14:12 mtl Quant Type: ISTD
Cal Date : 19-DEC-2002 04:39 Cal File: S2D0729.D
Als bottle: 31 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 2 2-Fluorophenol	112	6.470	6.461	(0.733)	175120	28.4015	28
$ 3 Phenol-d5	99	8.067	8.061	(0.917)	143834	38.4115	19
4 Phenol	94	8.088	8.117	(0.919)	206752	19.8181	14
8 bis(2-Chloroethyl)Ether	93	8.294	8.307	(0.942)	217471	35.2240	35
$ 9 2-Chlorophenol-d4	132	8.380	8.385	(0.952)	299803	49.1922	49
10 2-Chlorophenol	128	8.410	8.425	(0.956)	304394	34.9403	34
11 1,3-Dichlorobenzene	146	8.704	8.707	(0.989)	333347	38.5834	38
* 13 1,4-Dichlorobenzene-d4	152	8.802	8.815	(1.000)	141379	40.0000	
13 1,4-Dichlorobenzene	146	8.834	8.847	(1.004)	325832	37.9741	38
$ 14 1,2-Dichlorobenzene-d4	152	9.083	9.104	(1.033)	130449	37.9941	38
15 1,2-Dichlorobenzene	146	9.155	9.120	(1.037)	310420	38.1961	38
17 2-Methylphenol	108	9.223	9.236	(1.049)	143423	31.7839	32
18 2,2'-oxybis(1-Chloropropane)	45	9.298	9.305	(1.056)	374937	38.1457	38
20 4-Methylphenol	108	9.314	9.337	(1.063)	158783	26.9289	27

Data File: S2D0819.D
Report Date: 24-Jan-2003 14:16

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
17 N-Nitroso-di-n-propylamine	70	9.646	9.655	(1.085)	149830	43.3250	43
21 Hexachloroethane	117	9.773	9.778	(1.110)	85877	37.9938	38
$ 22 Nitrobenzene-d5	82	9.849	9.863	(0.874)	206035	38.3074	38
23 Nitrobenzene	77	9.883	9.834	(0.877)	303500	37.3959	37
24 Isophorone	82	10.346	10.358	(0.919)	497982	43.1188	43
25 2-Nitrophenol	139	10.488	10.504	(0.932)	122783	36.1730	36
26 2,4-Dimethylphenol	107	10.561	10.585	(0.938)	183565	37.1030	37
27 bis(2-Chloroethoxy)methane	93	10.755	10.768	(0.955)	263340	39.0630	39
28 2,4-Dichlorophenol	162	10.961	10.974	(0.973)	165016	38.1770	38
29 1,2,4-Trichlorobenzene	180	11.146	11.157	(0.989)	173952	38.3395	38
* 31 Naphthalene-d8	136	11.265	11.276	(1.000)	540034	40.0000	
32 Naphthalene	128	11.308	11.319	(1.004)	988603	40.5208	40
33 4-Chloroaniline	127	11.398	11.403	(1.012)	90696	14.8474	18
34 Hexachlorobutadiene	225	11.563	11.583	(1.035)	94648	38.9247	39
35 4-Chloro-3-Methylphenol	107	12.142	12.156	(1.098)	173474	39.9048	40
36 2-Methylnaphthalene	142	12.698	12.713	(1.127)	349365	39.7649	40
38 Hexachlorocyclopentadiene	237	13.012	13.034	(0.836)	85222	40.3911	40
39 2,4,6-Trichlorophenol	196	13.360	13.348	(0.894)	133394	39.9214	40
40 2,4,5-Trichlorophenol	196	13.325	13.338	(0.885)	131741	41.2498	41
$ 41 2-Fluorobiphenyl	172	13.445	13.446	(0.907)	384732	41.4139	41
42 2-Chloronaphthalene	162	13.892	13.696	(0.934)	341340	41.4922	41
43 2-Nitroaniline	65	13.888	13.889	(0.937)	113187	39.3810	39
44 Dimethylphthalate	163	14.266	14.277	(0.962)	410355	40.3873	41
46 2,6-Dinitrotoluene	165	14.393	14.394	(0.971)	111171	43.6376	41
45 Acenaphthylene	152	14.834	14.847	(0.980)	580134	42.8848	43
47 3-Nitroaniline	138	14.738	14.741	(0.990)	100302	36.7881	37
* 48 Acenaphthene-d10	164	14.825	14.818	(1.000)	349910	40.0000	
49 Acenaphthene	153	14.890	14.881	(1.094)	265311	43.1718	43
50 2,4-Dinitrophenol	184	14.944	14.966	(1.250)	64291	31.3383	31
51 4-Nitrophenol	109	15.041	15.044	(1.015)	13563	13.0113	13(a)
55 2,4-Dinitrotoluene	165	15.214	15.214	(1.026)	115181	46.0159	45
52 Dibenzofuran	168	15.246	15.258	(1.028)	483494	40.3165	40
54 Diethylphthalate	149	15.710	15.723	(1.060)	399071	41.6933	42
56 4-Chlorophenyl-phenylether	204	15.848	15.860	(1.076)	194666	42.8444	43
55 Fluorene	166	15.948	15.961	(1.076)	371086	43.2015	43
57 4-Nitroaniline	138	15.900	15.993	(1.079)	98064	43.5705	43
58 4,6-Dinitro-2-methylphenol	198	16.045	16.050	(0.889)	88642	37.2437	37
59 N-Nitrosodiphenylamine	169	16.108	16.108	(0.896)	332524	54.5185	54
$ 60 2,4,6-Tribromophenol	330	16.434	16.447	(0.910)	89093	58.2777	58
61 4-Bromophenyl-phenylether	248	16.955	16.965	(0.945)	106588	40.8926	40
62 Hexachlorobenzene	284	17.071	17.084	(0.955)	122722	43.7920	43
63 Pentachlorophenol	266	17.470	17.472	(0.970)	75528	36.8287	37
* 64 Phenanthrene-d10	188	17.869	17.882	(1.000)	660586	40.0000	
65 Phenanthrene	178	17.923	17.935	(1.003)	526181	43.4188	43
66 Anthracene	178	18.031	18.046	(1.009)	538658	42.8828	42
67 Carbazole	167	18.348	18.357	(1.027)	467618	55.4179	55
68 Di-n-butylphthalate	149	19.048	19.081	(1.067)	697704	41.8501	42

Data File: S2D0819.D
Report Date: 24-Jan-2003 14:16

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
69 Fluoranthene	202	20.363	20.376	(1.140)	651541	41.4472	41
71 Pyrene	202	20.827	20.840	(0.894)	647519	40.8071	41
$ 72 Terphenyl-d14	244	21.140	21.153	(0.907)	565744	38.0357	38
73 Butylbenzylphthalate	149	22.144	22.157	(0.950)	272144	40.5828	40
74 3,3'-Dichlorobenzidine	252	23.334	23.226	(0.997)	151866	37.4917	37
75 Benzo(a)Anthracene	228	23.278	23.301	(0.999)	447132	41.3569	41
* 76 Chrysene-d12	240	23.299	23.312	(1.000)	568899	40.0000	
76 bis(2-Ethylhexyl)phthalate	149	23.310	23.333	(1.000)	379861	45.8864	46
77 Chrysene	228	23.353	23.368	(1.002)	388370	37.4453	37
79 Di-n-octylphthalate	149	24.393	24.408	(0.930)	897180	55.1049	56
80 Benzo(b)fluoranthene	252	25.503	25.518	(0.964)	388461	32.5611	32
81 Benzo(k)fluoranthene	252	25.644	25.579	(0.967)	432606	40.1333	40
83 Benzo(a)pyrene	252	26.300	26.313	(0.995)	300660	33.4881	33
* 83 Perylene-d12	264	26.441	26.454	(1.000)	269722	40.0000	
84 Indeno(1,2,3-cd)pyrene	276	29.787	29.822	(1.127)	926388	30.1465	30(M)
85 Dibenz(a,h)anthracene	278	29.881	29.887	(1.130)	317766	33.3382	33
86 Benzo(g,h,i)perylene	276	30.833	30.847	(1.166)	316130	31.8277	32

mt 1/24/03

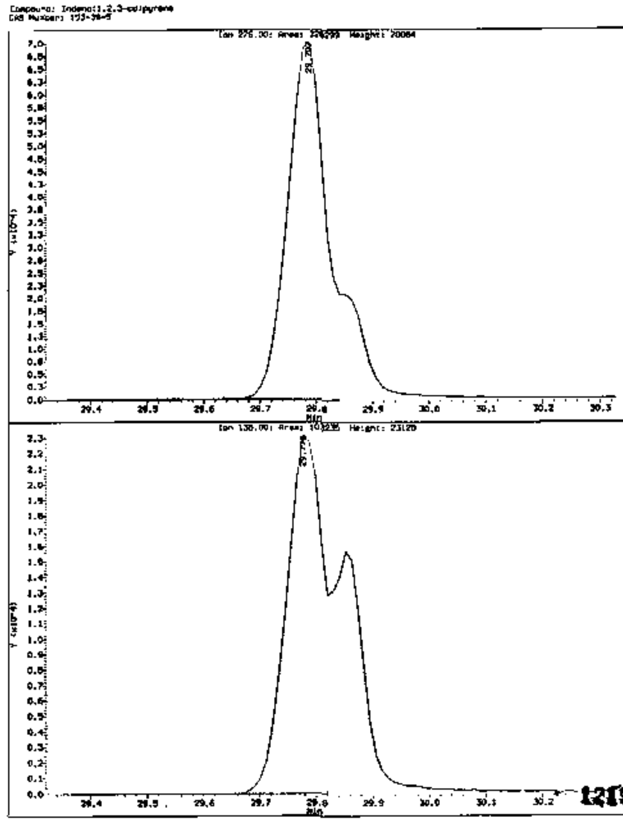
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

1/24/03

Data File: \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021226A.B\S2D0819.D
Injection Date: 26-DEC-2002 19:47
Instrument: s2.i
Client Sample ID: S2ELCS

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S2FLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: LCS-4921
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0842
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	11	
111-44-4	bis(2-Chloroethyl)Ether	35	
95-57-8	2-Chlorophenol	34	
541-73-1	1,3-Dichlorobenzene	35	
106-46-7	1,4-Dichlorobenzene	35	
95-50-1	1,2-Dichlorobenzene	36	
95-48-7	2-Methylphenol	30	
108-60-1	2,2'-oxybis(1-Chloropropane)	37	
106-44-5	4-Methylphenol	25	
621-64-7	N-Nitroso-di-n-propylamine	39	
67-72-1	Hexachloroethane	34	
98-95-3	Nitrobenzene	36	
78-59-1	Isophorone	40	
88-75-5	2-Nitrophenol	36	
105-67-9	2,4-Dimethylphenol	34	
120-83-2	2,4-Dichlorophenol	37	
120-82-1	1,2,4-Trichlorobenzene	36	
91-20-3	Naphthalene	38	
106-47-8	4-Chloroaniline	13	
111-91-1	bis(2-Chloroethoxy)methane	38	
87-68-3	Hexachlorobutadiene	35	
59-50-7	4-Chloro-3-Methylphenol	39	
91-57-6	2-Methylnaphthalene	39	
77-47-4	Hexachlorocyclopentadiene	36	
88-06-2	2,4,6-Trichlorophenol	39	
95-95-4	2,4,5-Trichlorophenol	42	
91-58-7	2-Chloronaphthalene	40	
88-74-4	2-Nitroaniline	42	
131-11-3	Dimethylphthalate	42	
208-96-8	Acenaphthylene	42	
606-20-2	2,6-Dinitrotoluene	42	
99-09-2	3-Nitroaniline	41	
83-32-9	Acenaphthene	43	

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

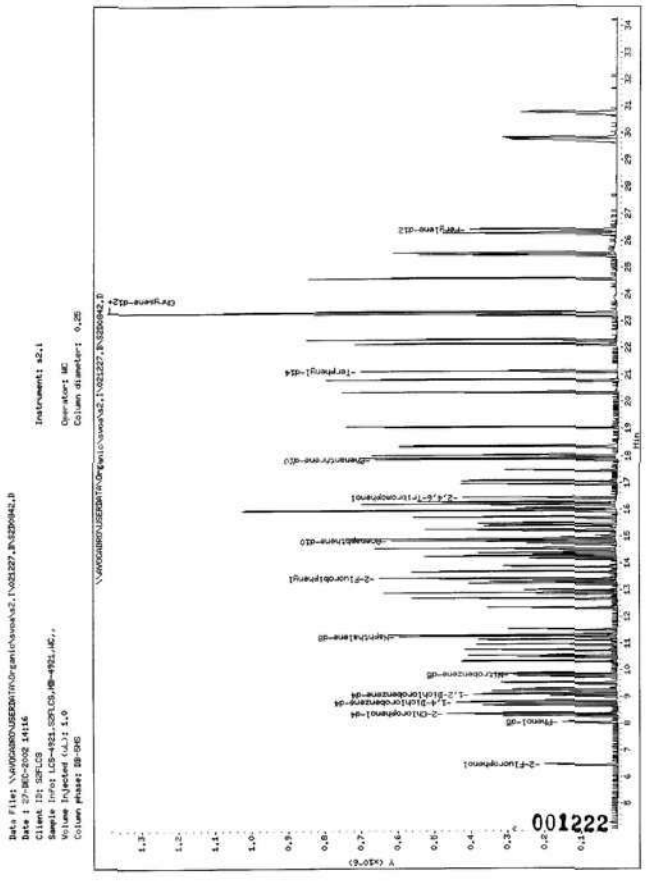
EPA SAMPLE NO.
S2FLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: LCS-4921
Sample wt/vol: 1000 (g/mL) ML Lab File ID: S2D0842
Level: (low/med) LOW Date Received: _____
% Moisture: _____ decanted: (Y/N)___ Date Extracted:12/26/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 12/27/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	38	
100-02-7	4-Nitrophenol	14	J
132-64-9	Dibenzofuran	42	
121-14-2	2,4-Dinitrotoluene	46	
84-66-2	Diethylphthalate	45	
7005-72-3	4-Chlorophenyl-phenylether	45	
86-73-7	Fluorene	46	
100-01-6	4-Nitroaniline	53	
534-52-1	4,6-Dinitro-2-methylphenol	39	
86-30-6	N-Nitrosodiphenylamine (1)	54	
101-55-3	4-Bromophenyl-phenylether	40	
118-74-1	Hexachlorobenzene	42	
87-86-5	Pentachlorophenol	39	
85-01-8	Phenanthrene	44	
120-12-7	Anthracene	44	
86-74-8	Carbazole	65	
84-74-2	Di-n-butylphthalate	44	
206-44-0	Fluoranthene	46	
129-00-0	Pyrene	38	
85-68-7	Butylbenzylphthalate	40	
91-94-1	3,3'-Dichlorobenzidine	39	
56-55-3	Benzo(a)anthracene	43	
218-01-9	Chrysene	39	
117-81-7	bis(2-Ethylhexyl)phthalate	46	B
117-84-0	Di-n-octylphthalate	34	
205-99-2	Benzo(b)fluoranthene	34	
207-08-9	Benzo(k)fluoranthene	39	
50-32-8	Benzo(a)pyrene	35	
193-39-5	Indeno(1,2,3-cd)pyrene	41	
53-70-3	Dibenzo(a,h)anthracene	37	
191-24-2	Benzo(g,h,i)perylene	37	

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0



Data File: *S2D0642.D*
Report Date: 24-Jan-2003 14:29

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021227.B\S2D0842.D
Lab Smp Id: LCS-4921 Client Smp ID: S2FLCS
Inj Date : 27-DEC-2002 14:16
Operator : WC Inst ID: s2.i
Smp Info : LCS-4921,S2FLCS,MB-4921,WC,,
Misc Info : 0,,LCS,1,,1000,1000,,,,26-DEC-02,
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\021227.B\s2_8270C.m
Meth Date : 27-Dec-2002 11:15 mtl Quant Type: ISTD
Cal Date : 19-DEC-2002 04:39 Cal File: S2D0729.D
Als bottle: 7 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Vo)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC Correction Factor
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Vo	1000.000	Volume of sample extracted (mL)

	Compounds	QUANT SIS MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
	==========	====	==	======	======	========	=======	=======
$	1 2-Fluorophenol	112	6.448	6.450	(0.735)	123743	25.6347	26
$	5 Phenol-d5	99	8.035	8.047	(0.914)	100215	16.5170	16
	6 Phenol	94	8.057	8.069	(0.919)	69449	11.1997	11
	8 bis(2-Chloroethyl)Ether	93	8.262	8.263	(0.942)	167932	34.6467	35
$	9 2-Chlorophenol-d4	132	8.348	8.350	(0.952)	237070	49.5472	50
	10 2-Chlorophenol	128	8.380	8.382	(0.956)	156555	33.7053	34
	11 1,3-Dichlorobenzene	146	8.672	8.674	(0.989)	158989	35.1436	35
*	12 1,4-Dichlorobenzene-d4	152	8.769	8.771	(1.000)	126854	40.0000	
	13 1,4-Dichlorobenzene	146	8.802	8.803	(1.004)	162283	34.7509	35
$	14 1,3-Dichlorobenzene-d4	152	9.060	9.062	(1.033)	104747	38.7632	39
	16 1,2-Dichlorobenzene	146	9.093	9.095	(1.037)	153686	36.4311	36
	17 2-Methylphenol	108	9.190	9.192	(1.048)	124065	29.7513	30
	18 2,2'-oxybis(1-Chloropropane)	45	9.266	9.267	(1.057)	285798	37.0362	37
	20 4-Methylphenol	108	9.482	9.483	(1.081)	116552	25.1464	25

Data File: S2D0842.D
Report Date: 24-Jan-2003 14:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
19 N-Nitroso-di-n-propylamine	70	9.503	9.515	(1.084)	105334	38.6228	39
21 Hexachloroethane	117	9.733	9.731	(1.110)	60972	34.3251	34
$ 22 Nitrobenzene-d5	82	9.816	9.818	(0.874)	169373	37.9422	38
23 Nitrobenzene	77	9.849	9.850	(0.877)	162929	36.0328	36
24 Isophorone	82	10.302	10.314	(0.917)	349094	40.5537	40
25 2-Nitrophenol	139	10.464	10.465	(0.932)	102610	36.5238	36
26 2,4-Dimethylphenol	107	10.518	10.519	(0.937)	137874	33.7349	34
27 bis(2-Chloroethoxy)methane	93	10.723	10.725	(0.955)	210301	37.5996	38
29 2,4-Dichlorophenol	162	10.928	10.930	(0.973)	132626	37.0653	37
30 1,2,4-Trichlorobenzene	180	11.112	11.113	(0.989)	132374	35.8060	36
* 31 Naphthalene-d8	136	11.230	11.232	(1.000)	463622	40.0000	
32 Naphthalene	128	11.274	11.275	(1.004)	454567	37.8024	38
33 4-Chloroaniline	127	11.360	11.361	(1.012)	64549	12.7453	13
34 Hexachlorobutadiene	225	11.511	11.502	(1.025)	63000	35.0790	35
35 4-Chloro-3-Methylphenol	107	12.321	12.311	(1.097)	141994	39.4575	39
36 2-Methylnaphthalene	142	12.655	12.657	(1.127)	297235	38.6488	39
38 Hexachlorocyclopentadiene	237	12.968	12.970	(0.877)	67896	35.8014	36
39 2,4,6-Trichlorophenol	196	13.217	13.218	(0.893)	101023	39.0615	39
40 2,4,5-Trichlorophenol	196	13.292	13.283	(0.899)	114164	42.3945	42
$ 41 2-Fluorobiphenyl	172	13.400	13.402	(0.906)	343265	42.6800	43
42 2-Chloronaphthalene	162	13.648	13.650	(0.923)	390885	40.4257	40
43 2-Nitroaniline	65	13.854	13.855	(0.937)	98638	41.7313	42
44 Dimethylphthalate	163	14.231	14.223	(0.962)	358326	42.1945	42
45 2,6-Dinitrotoluene	165	14.350	14.352	(0.970)	96514	41.9960	42
46 Acenaphthylene	152	14.501	14.492	(0.980)	483263	42.0341	42
47 3-Nitroaniline	138	14.696	14.686	(0.993)	95164	41.3113	41
* 48 Acenaphthene-d10	164	14.793	14.783	(1.000)	244573	40.0000	
49 Acenaphthene	153	14.858	14.848	(1.004)	299834	43.1623	43
50 2,4-Dinitrophenol	184	14.901	14.903	(1.007)	56677	38.5158	38
51 4-Nitrophenol	109	15.009	15.021	(1.015)	11294	13.7767	14(a)
53 2,4-Dinitrotoluene	165	15.171	15.172	(1.026)	327183	45.5097	46
52 Dibenzofuran	168	15.214	15.205	(1.028)	421473	41.9429	42
54 Diethylphthalate	149	15.678	15.679	(1.060)	365402	45.1549	45
56 4-Chlorophenyl-phenylether	204	15.909	15.906	(1.075)	166304	45.4394	45
55 Fluorene	166	15.915	15.906	(1.076)	334078	46.1054	46
57 4-Nitroaniline	138	15.948	15.949	(1.078)	99445	52.7899	53
58 4,6-Dinitro-2-methylphenol	198	16.013	16.003	(0.898)	86364	38.7407	39
59 N-Nitrosodiphenylamine	169	16.155	16.144	(0.906)	306333	53.5605	54
$ 60 2,4,6-Tribromophenol	330	16.401	16.403	(0.920)	94537	62.2253	62
61 4-Bromophenyl-phenylether	248	16.919	16.910	(0.949)	98270	39.6112	40
62 Hexachlorobenzene	284	17.038	17.029	(0.955)	114038	42.4053	42
63 Pentachlorophenol	266	17.427	17.428	(0.977)	75115	38.6146	39
* 64 Phenanthrene-d10	188	17.837	17.839	(1.000)	431961	40.0000	
65 Phenanthrene	178	17.891	17.882	(1.003)	497664	43.7896	44
66 Anthracene	178	17.988	17.990	(1.008)	503016	44.3599	44
67 Carbazole	167	18.312	18.314	(1.027)	489524	64.6323	65(R)
68 Di-n-butylphthalate	149	19.035	19.026	(1.067)	654786	44.5169	44

001224

Data File: S2D0842.D
Report Date: 24-Jan-2003 14:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
69 Fluoranthene	202	20.331	20.321	(1.140)	546974	45.5007	46
71 Pyrene	202	20.795	20.796	(0.894)	564229	37.9967	38
$ 72 Terphenyl-d14	244	21.108	21.108	(0.907)	[illegible]	[illegible]	[illegible]
73 Butylbenzylphthalate	149	22.112	22.113	(0.950)	298225	39.8927	40
74 3,3'-Dichlorobenzidine	252	23.191	23.182	(0.997)	176971	33.3304	33
75 Benzo(a)anthracene	228	23.245	23.247	(0.999)	513908	42.8283	43
* 76 Chrysene-d12	240	23.267	23.268	(1.000)	408311	40.0000	
78 bis(2-Ethylhexyl)phthalate	149	23.278	23.279	(1.000)	424815	46.3958	46
77 Chrysene	228	23.321	23.322	(1.002)	462885	39.2037	39
79 Di-n-octylphthalate	149	24.562	24.553	(0.930)	707748	33.8916	34
80 Benzo(b)fluoranthene	252	25.458	25.448	(0.966)	508094	34.5844	34
81 Benzo(k)fluoranthene	252	25.523	25.514	(0.967)	511606	33.4967	33
82 Benzo(a)pyrene	252	26.257	26.248	(0.995)	451062	35.0324	35
* 83 Perylene-d12	264	26.398	26.388	(1.000)	299946	40.0000	
84 Indeno(1,2,3-cd)pyrene	276	29.722	29.724	(1.126)	541814	40.6748	41
85 Dibenzo(a,h)anthracene	278	29.787	29.788	(1.128)	445963	36.7633	37
86 Benzo(g,h,i)perylene	276	30.748	30.739	(1.165)	449447	36.7679	37

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

1/24/03

001225

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. S2ULCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: LCS-4928
Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D1207
Level: (low/med) LOW Date Received: ________
% Moisture: 0 decanted: (Y/N) N Date Extracted:12/27/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/18/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1200	
111-44-4	bis(2-Chloroethyl)Ether	1100	
95-57-8	2-Chlorophenol	1200	
541-73-1	1,3-Dichlorobenzene	1000	
106-46-7	1,4-Dichlorobenzene	1000	
95-50-1	1,2-Dichlorobenzene	1100	
95-48-7	2-Methylphenol	1200	
108-60-1	2,2'-oxybis(1-Chloropropane)	1100	
106-44-5	4-Methylphenol	1200	
621-64-7	N-Nitroso-di-n-propylamine	1300	
67-72-1	Hexachloroethane	1000	
98-95-3	Nitrobenzene	1000	
78-59-1	Isophorone	1200	
88-75-5	2-Nitrophenol	1000	
105-67-9	2,4-Dimethylphenol	1000	
120-83-2	2,4-Dichlorophenol	1100	
120-82-1	1,2,4-Trichlorobenzene	1000	
91-20-3	Naphthalene	1100	
106-47-8	4-Chloroaniline	120	J
111-91-1	bis(2-Chloroethoxy)methane	1100	
87-68-3	Hexachlorobutadiene	1000	
59-50-7	4-Chloro-3-Methylphenol	1200	
91-57-6	2-Methylnaphthalene	1100	
77-47-4	Hexachlorocyclopentadiene	670	
88-06-2	2,4,6-Trichlorophenol	1100	
95-95-4	2,4,5-Trichlorophenol	1200	
91-58-7	2-Chloronaphthalene	1100	
88-74-4	2-Nitroaniline	1100	
131-11-3	Dimethylphthalate	1200	
208-96-8	Acenaphthylene	1100	
606-20-2	2,6-Dinitrotoluene	1200	
99-09-2	3-Nitroaniline	460	J
83-32-9	Acenaphthene	1100	

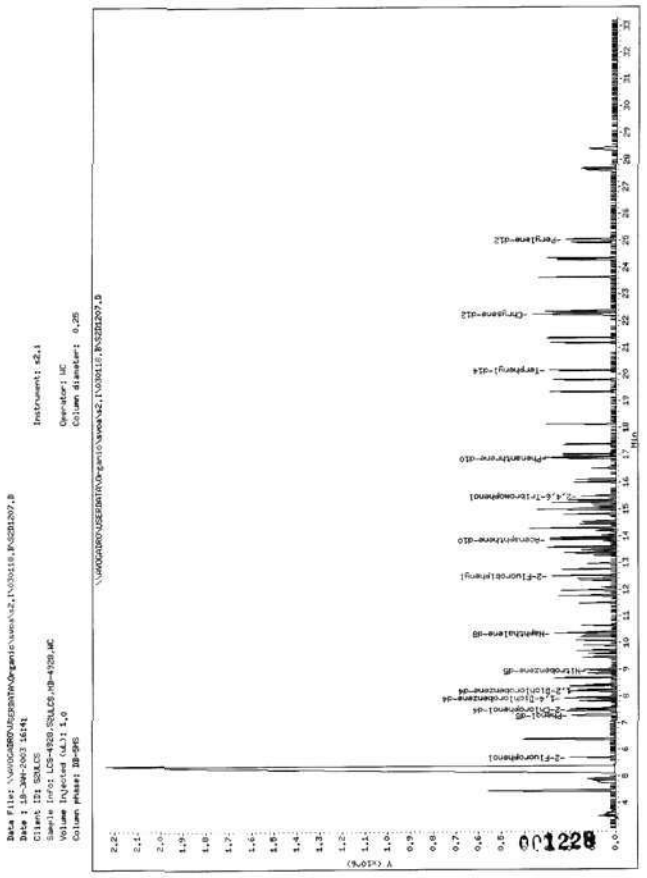
1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. S2ULCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: LCS-4928
Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D1207
Level: (low/med) LOW Date Received: ________
% Moisture: 0 decanted: (Y/N) N Date Extracted:12/27/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/18/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1400	
100-02-7	4-Nitrophenol	1100	
132-64-9	Dibenzofuran	1100	
121-14-2	2,4-Dinitrotoluene	1200	
84-66-2	Diethylphthalate	1200	
7005-72-3	4-Chlorophenyl-phenylether	1200	
86-73-7	Fluorene	1200	
100-01-6	4-Nitroaniline	820	
534-52-1	4,6-Dinitro-2-methylphenol	1300	
86-30-6	N-Nitrosodiphenylamine (1)	1400	
101-55-3	4-Bromophenyl-phenylether	1100	
118-74-1	Hexachlorobenzene	1200	
87-86-5	Pentachlorophenol	1200	
85-01-8	Phenanthrene	1200	
120-12-7	Anthracene	1000	
86-74-8	Carbazole	1300	
84-74-2	Di-n-butylphthalate	1200	
206-44-0	Fluoranthene	1200	
129-00-0	Pyrene	1200	
85-68-7	Butylbenzylphthalate	1300	
91-94-1	3,3'-Dichlorobenzidine	130	J
56-55-3	Benzo(a)anthracene	1200	
218-01-9	Chrysene	1200	
117-81-7	bis(2-Ethylhexyl)phthalate	1200	
117-84-0	Di-n-octylphthalate	1300	
205-99-2	Benzo(b)fluoranthene	1300	
207-08-9	Benzo(k)fluoranthene	1500	
50-32-8	Benzo(a)pyrene	1100	
193-39-5	Indeno(1,2,3-cd)pyrene	1200	
53-70-3	Dibenzo(a,h)anthracene	1300	
191-24-2	Benzo(g,h,i)perylene	1300	

(1) - Cannot be separated from Diphenylamine



Data File: S2D1207.D
Report Date: 19-Jan-2003 12:01

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030118.B\S2D1207.D
Lab Smp Id: LCS-4928 Client Smp ID: S2ULCS
Inj Date : 18-JAN-2003 16:41
Operator : WC Inst ID: s2.i
Smp Info : LCS-4928,S2ULCS,MB-4928,WC
Misc Info : 3,,LCS,2,,,,,,,27-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030118.B\s2_8270C.m
Meth Date : 19-Jan-2003 12:00 mtl Quant Type: ISTD
Cal Date : 18-JAN-2003 12:56 Cal File: S2D1202.D
Als bottle: 82 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
$	3 2-Fluorophenol	112	5.717	5.674	(0.721)	97096	31.8559	1700
$	5 Phenol-d5	99	7.283	7.272	(0.918)	124555	54.6057	1800
	6 Phenol	94	7.304	7.304	(0.921)	88375	35.3903	1200
	8 bis(2-Chloroethyl)Ether	93	7.466	7.466	(0.941)	57353	31.8602	1100
$	9 2-Chlorophenol-d4	132	7.531	7.520	(0.950)	106611	54.9075	1800
	10 2-Chlorophenol	128	7.553	7.552	(0.952)	70192	34.8551	1200
	11 1,3-Dichlorobenzene	146	7.822	7.823	(0.986)	62596	31.1999	1000
*	12 1,4-Dichlorobenzene-d4	152	7.930	7.930	(1.000)	58543	40.0000	
	13 1,4-Dichlorobenzene	146	7.963	7.963	(1.004)	64979	31.6001	1000
$	14 1,2-Dichlorobenzene-d4	152	8.211	8.211	(1.035)	59995	33.5648	1100
	16 1,2-Dichlorobenzene	146	8.233	8.232	(1.038)	61879	33.0471	1100
	17 2-Methylphenol	108	8.395	8.394	(1.059)	62412	35.9738	1200
	18 2,2'-oxybis(1-Chloropropane)	45	8.438	8.448	(1.064)	95173	32.5834	1180

001229

Data File: S2D1207.D
Report Date: 19-Jan-2003 12:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
	20 4-Methylphenol	108	8.686	8.686	(1.095)	66793	36.6097	1200
	19 N-Nitroso-di-n-propylamine	70	8.686	8.686	(1.095)	37354	38.3573	1300
	21 Hexachloroethane	117	8.859	8.869	(1.117)	24567	31.5375	1000
$	22 Nitrobenzene-d5	82	8.956	8.966	(0.865)	62689	32.1597	1100
	23 Nitrobenzene	77	8.999	8.999	(0.870)	40519	31.3676	1000
	24 Isophorone	82	9.463	9.463	(0.914)	121560	34.8802	1200
	25 2-Nitrophenol	139	9.604	9.614	(0.928)	39606	31.2983	1000
	26 2,4-Dimethylphenol	107	9.711	9.711	(0.938)	60647	31.7693	1000
	27 bis(2-Chloroethoxy)methane	93	9.895	9.895	(0.956)	74548	33.2277	1100
	29 2,4-Dichlorophenol	162	10.079	10.078	(0.974)	57972	34.4953	1100
	30 1,2,4-Trichlorobenzene	180	10.249	10.240	(0.990)	56327	31.5811	1000
*	31 Naphthalene-d8	136	10.348	10.348	(1.000)	217041	40.0000	
	32 Naphthalene	128	10.392	10.391	(1.004)	180824	32.0924	1100
	33 4-Chloroaniline	127	10.500	10.510	(1.015)	8743	3.68733	120(m)
	34 Hexachlorobutadiene	225	10.629	10.640	(1.027)	29947	30.7393	1000
	35 4-Chloro-3-Methylphenol	107	11.482	11.493	(1.110)	60320	35.4652	1200
	36 2-Methylnaphthalene	142	11.763	11.773	(1.137)	122708	32.4787	1100
	38 Hexachlorocyclopentadiene	237	12.076	12.086	(0.871)	17313	20.1385	670
	39 2,4,6-Trichlorophenol	196	12.345	12.345	(0.890)	42726	33.8282	1100
	40 2,4,5-Trichlorophenol	196	12.410	12.421	(0.895)	48533	34.5411	1200
$	41 2-Fluorobiphenyl	172	12.518	12.528	(0.902)	137726	33.7186	1100
	42 2-Chloronaphthalene	162	12.745	12.745	(0.919)	115662	34.2346	1100
	43 3-Nitroaniline	65	12.961	12.971	(0.935)	37210	34.1948	1100
	44 Dimethylphthalate	163	13.371	13.360	(0.964)	148260	35.5326	1200
	45 2,6-Dinitrotoluene	165	13.479	13.479	(0.972)	39280	35.8422	1200
	46 Acenaphthylene	152	13.574	13.587	(0.979)	186629	32.9518	1100
	47 3-Nitroaniline	138	13.803	13.813	(0.995)	15730	13.6832	460(aR)
*	48 Acenaphthene-d10	164	13.868	13.867	(1.000)	119920	40.0000	
	49 Acenaphthene	153	13.932	13.932	(1.005)	120710	34.0889	1100
	50 2,4-Dinitrophenol	184	14.030	14.028	(1.012)	31343	42.1089	1400
	51 4-Nitrophenol	109	14.191	14.191	(1.023)	16429	34.4856	1100
	53 2,4-Dinitrotoluene	165	14.289	14.288	(1.030)	51095	37.2424	1200
	52 Dibenzofuran	168	14.289	14.288	(1.030)	169682	34.1096	1100
	54 Diethylphthalate	149	14.807	14.807	(1.068)	149153	36.0864	1200
	56 4-Chlorophenyl-phenylether	204	15.001	15.001	(1.082)	72065	35.2064	1200
	55 Fluorene	166	14.980	14.990	(1.080)	139743	35.6414	1200
	57 4-Nitroaniline	138	15.044	15.055	(1.085)	28479	24.6155	820
	58 4,6-Dinitro-2-methylphenol	198	15.120	15.120	(0.895)	54283	97.9720	1300(Q)
	59 N-Nitrosodiphenylamine	169	15.249	15.249	(0.903)	118885	41.8711	1400
$	60 2,4,6-Tribromophenol	330	15.476	15.476	(0.916)	56009	56.0617	1900
	61 4-Bromophenyl-phenylether	248	15.994	15.994	(0.947)	42453	34.0840	1100
	62 Hexachlorobenzene	284	16.091	16.091	(0.953)	45950	35.3799	1200
	63 Pentachlorophenol	266	16.502	16.501	(0.977)	21573	35.1866	1200
*	64 Phenanthrene-d10	188	16.890	16.890	(1.000)	217457	40.0000	
	65 Phenanthrene	178	16.933	16.933	(1.003)	199657	35.6973	1200
	66 Anthracene	178	17.041	17.041	(1.009)	179274	31.7238	1000
	67 Carbazole	167	17.387	17.387	(1.029)	165150	39.0678	1300

001230

Data File: S2D1207.D
Report Date: 19-Jan-2003 12:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
	68 Di-n-butylphthalate	149	18.142	18.142	(1.074)	256343	34.0545	1200
	69 Fluoranthene	202	19.352	19.331	(1.146)	225422	35.4655	1200
	71 Pyrene	202	19.805	19.805	(0.889)	229364	34.5749	1200
$	72 Terphenyl-d14	244	20.161	20.161	(0.905)	168553	38.5429	1300
	73 Butylbenzylphthalate	149	21.187	21.167	(0.951)	114287	38.2867	1300
	74 3,3'-Dichlorobenzidine	252	22.213	22.223	(0.997)	8304	3.81715	130(aR)
	75 Benzo(a)anthracene	228	22.255	22.255	(0.999)	207090	34.7371	1200
*	76 Chrysene-d12	240	22.277	22.277	(1.000)	213349	40.0000	
	78 bis(2-Ethylhexyl)phthalate	149	22.374	22.374	(1.004)	151953	35.5335	1300
	77 Chrysene	228	22.331	22.331	(1.003)	192441	35.4398	1300
	79 Di-n-octylphthalate	149	23.626	23.626	(0.944)	165738	39.2689	1300
	80 Benzo(b)fluoranthene	252	24.296	24.296	(0.970)	205199	38.1068	1300
	81 Benzo(k)fluoranthene	252	24.350	24.350	(0.972)	201862	44.3565	1500
	82 Benzo(a)pyrene	252	24.922	24.932	(0.995)	199881	34.0398	1100
*	83 Perylene-d12	264	25.041	25.040	(1.000)	131680	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	27.631	27.631	(1.103)	197405	36.8230	1200
	85 Dibenz(a,h)anthracene	278	27.685	27.696	(1.104)	183435	39.3543	1300
	86 Benzo(g,h,i)perylene	276	28.419	28.419	(1.135)	182706	38.7063	1300

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

1/24/03

001231

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S2ULCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: LCSD-4928
Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D1208
Level: (low/med) LOW Date Received: _____
% Moisture: 0 decanted: (Y/N) N Date Extracted:12/27/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/18/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1100	
111-44-4	bis(2-Chloroethyl)Ether	1000	
95-57-8	2-Chlorophenol	1000	
541-73-1	1,3-Dichlorobenzene	990	
106-46-7	1,4-Dichlorobenzene	970	
95-50-1	1,2-Dichlorobenzene	1000	
95-48-7	2-Methylphenol	1000	
108-60-1	2,2'-oxybis(1-Chloropropane)	1000	
106-44-5	4-Methylphenol	1100	
621-64-7	N-Nitroso-di-n-propylamine	1200	
67-72-1	Hexachloroethane	980	
98-95-3	Nitrobenzene	1000	
78-59-1	Isophorone	1100	
88-75-5	2-Nitrophenol	980	
105-67-9	2,4-Dimethylphenol	560	
120-83-2	2,4-Dichlorophenol	1100	
120-82-1	1,2,4-Trichlorobenzene	1000	
91-20-3	Naphthalene	1000	
106-47-8	4-Chloroaniline	260	J
111-91-1	bis(2-Chloroethoxy)methane	1000	
87-68-3	Hexachlorobutadiene	980	
59-50-7	4-Chloro-3-Methylphenol	1100	
91-57-6	2-Methylnaphthalene	1000	
77-47-4	Hexachlorocyclopentadiene	530	
88-06-2	2,4,6-Trichlorophenol	1000	
95-95-4	2,4,5-Trichlorophenol	1100	
91-58-7	2-Chloronaphthalene	1100	
88-74-4	2-Nitroaniline	1100	
131-11-3	Dimethylphthalate	1100	
208-96-8	Acenaphthylene	330	
606-20-2	2,6-Dinitrotoluene	1100	
99-09-2	3-Nitroaniline	790	
83-32-9	Acenaphthene	1100	

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

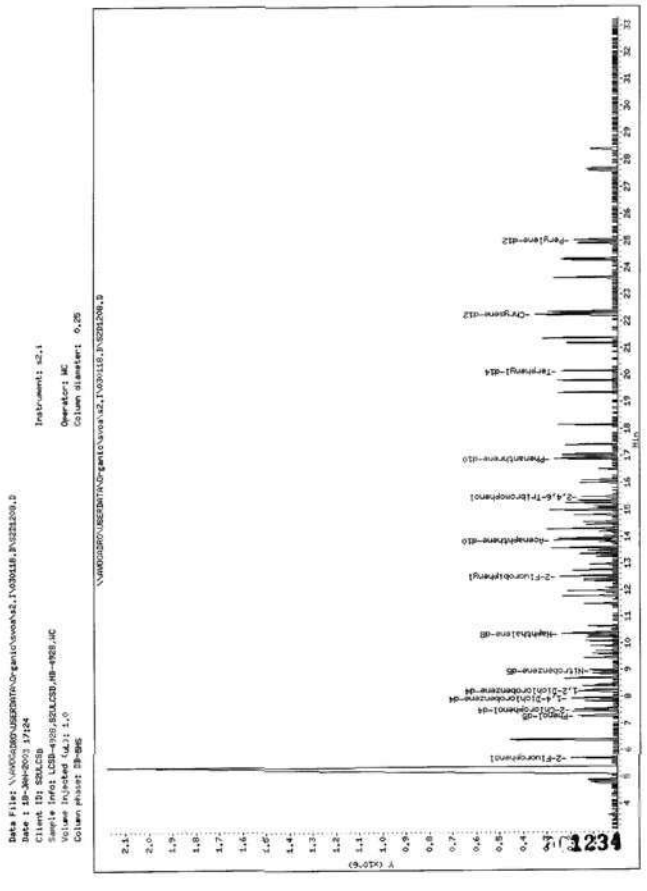
EPA SAMPLE NO.
S2ULCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: LCSD-4928
Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D1208
Level: (low/med) LOW Date Received: _____
% Moisture: 0 decanted: (Y/N) N Date Extracted:12/27/02
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/18/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1300	
100-02-7	4-Nitrophenol	1100	
132-64-9	Dibenzofuran	1100	
121-14-2	2,4-Dinitrotoluene	1200	
84-66-2	Diethylphthalate	1200	
7005-72-3	4-Chlorophenyl-phenylether	1100	
86-73-7	Fluorene	1100	
100-01-6	4-Nitroaniline	930	
534-52-1	4,6-Dinitro-2-methylphenol	1200	
86-30-6	N-Nitrosodiphenylamine (1)	1300	
101-55-3	4-Bromophenyl-phenylether	1100	
118-74-1	Hexachlorobenzene	1100	
87-86-5	Pentachlorophenol	1100	
85-01-8	Phenanthrene	1200	
120-12-7	Anthracene	1000	
86-74-8	Carbazole	1300	
84-74-2	Di-n-butylphthalate	1200	
206-44-0	Fluoranthene	1200	
129-00-0	Pyrene	1200	
85-68-7	Butylbenzylphthalate	1300	
91-94-1	3,3'-Dichlorobenzidine	520	
56-55-3	Benzo(a)anthracene	1200	
218-01-9	Chrysene	1200	
117-81-7	bis(2-Ethylhexyl)phthalate	1200	
117-84-0	Di-n-octylphthalate	1200	
205-99-2	Benzo(b)fluoranthene	1300	
207-08-9	Benzo(k)fluoranthene	1400	
50-32-8	Benzo(a)pyrene	1200	
193-39-5	Indeno(1,2,3-cd)pyrene	1200	
53-70-3	Dibenzo(a,h)anthracene	1300	
191-24-2	Benzo(g,h,i)perylene	1300	

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0



Data File: S2D1208.D
Report Date: 19-Jan-2003 12:01

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030118.B\S2D1208.D
Lab Smp Id: LCSD-4928 Client Smp ID: S2ULCSD
Inj Date : 18-JAN-2003 17:24
Operator : WC Inst ID: s2.i
Smp Info : LCSD-4928,S2ULCSD,MB-4928,WC
Misc Info : 3,,LCSD,2,,,,,,,27-DEC-02
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030118.B\s2_8270C.m
Meth Date : 19-Jan-2003 12:00 mtl Quant Type: ISTD
Cal Date : 18-JAN-2003 12:56 Cal File: S2D1202.D
Als bottle: 83 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)
$	3 2-Fluorophenol	112	5.711	5.674	(0.720)	82148	49.0738	1600
$	5 Phenol-d5	99	7.287	7.272	(0.918)	104738	52.3369	1700
	4 Phenol	94	7.308	7.304	(0.921)	71625	33.0748	1100
	8 bis(2-Chloroethyl)Ether	93	7.470	7.466	(0.941)	48145	29.9203	1000
$	9 2-Chlorophenol-d4	132	7.524	7.520	(0.948)	89739	51.6830	1700
	10 2-Chlorophenol	128	7.556	7.552	(0.952)	57079	31.6949	1000
	11 1,3-Dichlorobenzene	146	7.826	7.822	(0.986)	53321	29.6641	990
*	12 1,4-Dichlorobenzene-d4	152	7.934	7.930	(1.000)	52352	40.0000	
	13 1,4-Dichlorobenzene	146	7.967	7.963	(1.004)	55306	29.2307	970
$	14 1,2-Dichlorobenzene-d4	152	8.219	8.211	(1.035)	39578	31.5091	1000
	16 1,2-Dichlorobenzene	146	8.237	8.232	(1.038)	51647	30.8636	1000
	17 2-Methylphenol	108	8.399	8.394	(1.059)	48928	31.5359	1000
	18 2,2'-oxybis(1-Chloropropane)	45	8.442	8.448	(1.064)	80586	30.8312	1000

Data File: S2D1208.D
Report Date: 19-Jan-2003 12:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
	20 4-Methylphenol	108	9.010	9.008	(1.095)	55267	33.8763	2100
	19 N-Nitroso-di-n-Propylamine	70	9.030	9.086	(1.095)	32021	46.7570	1500
	21 Hexachloroethane	117	8.863	8.869	(1.117)	30560	29.4961	980
$	22 Nitrobenzene-d5	82	8.960	8.966	(0.868)	53767	56.8184	1500
	23 Nitrobenzene	77	9.000	8.998	(0.870)	81195	29.9663	1400
	24 Isophorone	82	9.457	9.463	(0.915)	101270	32.8202	1100
	25 2-Nitrophenol	139	9.608	9.614	(0.928)	33077	23.3745	980
	26 2,4-Dimethylphenol	107	9.765	9.711	(0.937)	28610	16.0272	540(Q)
	27 bis(2-Chloroethoxy)methane	93	9.893	9.895	(0.958)	62658	31.4333	1000
	29 2,4-Dichlorophenol	162	10.063	10.078	(0.974)	47330	31.0435	1100
	30 1,2,4-Trichlorobenzene	180	10.234	10.240	(0.989)	67487	30.0780	1000
*	31 Naphthalene-d8	136	10.343	10.348	(1.000)	193162	40.0000	
	32 Naphthalene	128	10.365	10.391	(1.003)	183589	30.8443	1000
	33 4-Chloroaniline	127	10.544	10.530	(1.015)	16750	7.36529	250(a)
	34 Hexachlorobutadiene	225	10.633	10.640	(1.027)	28561	28.3798	940
	35 4-Chloro-3-Methylphenol	107	11.484	11.492	(1.109)	63315	33.7488	1100
	36 2-Methylnaphthalene	142	11.767	11.773	(1.137)	103533	30.8883	1000
	38 Hexachlorocyclopentadiene	237	11.906	12.004	(0.871)	12020	19.0738	636
	39 2,4,6-Trichlorophenol	196	12.335	12.345	(0.889)	30280	31.0898	1000
	40 2,4,5-Trichlorophenol	198	12.424	12.431	(0.895)	38499	33.0178	1100
$	41 2-Fluorobiphenyl	172	12.522	12.529	(0.903)	118007	33.7767	1100
	42 2-Chloronaphthalene	162	12.740	12.745	(0.918)	97296	33.7048	1100
	43 2-Nitroaniline	65	12.865	12.871	(0.925)	31697	33.3548	1100
	44 Dimethylphthalate	163	13.376	13.360	(0.964)	128783	34.4921	1100
	45 2,6-Dinitrotoluene	165	13.408	13.439	(0.972)	33533	33.0764	1100
	46 Acenaphthylene	152	13.976	13.867	(1.005)	48852	3.79429	960(QM)
	47 3-Nitroaniline	138	13.807	13.811	(0.918)	22351	23.4367	780
*	48 Acenaphthene-d10	164	13.873	13.867	(1.000)	106703	40.0000	
	49 Acenaphthene	153	13.935	13.932	(1.004)	302433	33.4917	1100
	50 2,4-Dinitrophenol	184	14.011	14.029	(1.011)	37010	36.0940	1200
	51 4-Nitrophenol	109	14.196	14.191	(1.023)	34930	34.1150	1100
	52 2,4-Dinitrotoluene	165	14.299	14.308	(1.030)	84193	36.3433	1200
	53 Dibenzofuran	168	14.291	14.286	(1.030)	340905	32.1345	1100
	54 Diethylphthalate	149	14.900	14.907	(1.067)	330307	35.7671	1200
	56 4-Chlorophenyl-phenylether	204	15.005	15.002	(1.082)	80909	33.7079	1100
	55 Fluorene	166	14.994	14.990	(1.080)	337338	33.3233	1100
	57 4-Nitroaniline	138	15.040	15.066	(1.085)	28335	27.7651	930
	58 4,6-Dinitro-2-Methylphenol	198	15.133	15.126	(0.875)	53117	36.8005	1200(Q)
	59 N-Nitrosodiphenylamine	169	15.251	15.249	(0.882)	100453	40.3327	1300
$	60 2,4,6-Tribromophenol	330	15.459	15.470	(0.910)	38900	52.4773	1700
	61 4-Bromophenyl-phenylether	248	15.996	15.984	(0.924)	38487	33.3348	1100(Q)
	62 Hexachlorobenzene	284	16.085	16.091	(0.928)	36727	33.8411	1100
	63 Pentachlorophenol	266	16.305	16.301	(0.950)	19334	32.0394	1100
*	64 Phenanthrene-d10	188	16.996	16.990	(1.000)	151808	40.0000	
	65 Phenanthrene	178	16.938	16.913	(1.003)	373338	34.7441	1100(Q)
	66 Anthracene	178	17.036	17.041	(1.009)	355154	31.7309	1000(Q)
	67 Carbazole	167	17.390	17.387	(1.029)	340037	38.3194	1300

Data File: S2D1208.D
Report Date: 19-Jan-2003 12:01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
	68 Di-n-butylphthalate	149	18.156	18.143	(1.074)	325642	35.9257	1200
	69 Fluoranthene	202	19.345	19.351	(1.146)	157316	35.3000	1200
	71 Pyrene	202	19.809	19.904	(0.985)	300046	36.3040	1200
$	72 Terphenyl-d14	244	20.156	20.161	(0.905)	146948	35.0430	1200
	73 Butylbenzylphthalate	149	21.181	21.187	(0.952)	93484	37.9335	1300
	74 3,3'-Dichlorobenzidine	252	22.216	22.221	(0.999)	29743	13.3510	500
	75 Benzo(a)anthracene	228	22.249	22.255	(0.999)	283379	34.9901	1200
*	76 Chrysene-d12	240	22.270	22.277	(1.000)	267411	40.0000	
	78 bis(2-Ethylhexyl)phthalate	149	22.367	22.374	(1.004)	234433	35.5823	1200
	77 Chrysene	228	22.324	22.333	(1.003)	269017	34.4338	1200
	79 Di-n-octylphthalate	149	23.653	23.656	(0.944)	333515	37.7391	1300
	80 Benzo(b)fluoranthene	252	24.289	24.296	(0.975)	191449	31.8779	1100
	81 Benzo(k)fluoranthene	252	24.345	24.350	(0.977)	176722	41.0431	1400
	82 Benzo(a)pyrene	252	24.926	24.633	(0.996)	144374	34.9320	1200
*	83 Perylene-d12	264	28.056	28.045	(1.000)	117905	40.0000	
	84 Indeno(1,2,3-cd)pyrene	276	27.625	27.631	(1.133)	174003	36.4181	1300
	85 Dibenz(a,h)anthracene	278	27.689	27.688	(1.136)	164814	39.4644	1300
	86 Benzo(g,h,i)perylene	276	28.615	28.435	(1.155)	166779	39.8310	1300

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

1/24/03

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: S2ALCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: LCS-5197
Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D1267
Level: (low/med) LOW Date Received: ____
% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/17/03
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1400	
111-44-4	bis(2-Chloroethyl)Ether	1300	
95-57-8	2-Chlorophenol	1400	
541-73-1	1,3-Dichlorobenzene	1300	
106-46-7	1,4-Dichlorobenzene	1300	
95-50-1	1,2-Dichlorobenzene	1400	
95-48-7	2-Methylphenol	1500	
108-60-1	2,2'-oxybis(1-Chloropropane)	1300	
106-44-5	4-Methylphenol	1500	
621-64-7	N-Nitroso-di-n-propylamine	1600	
67-72-1	Hexachloroethane	1300	
98-95-3	Nitrobenzene	1400	
78-59-1	Isophorone	1400	
88-75-5	2-Nitrophenol	1300	
105-67-9	2,4-Dimethylphenol	1200	
120-83-2	2,4-Dichlorophenol	1400	
120-82-1	1,2,4-Trichlorobenzene	1300	
91-20-3	Naphthalene	1400	
106-47-8	4-Chloroaniline	380	
111-91-1	bis(2-Chloroethoxy)methane	1400	
87-68-3	Hexachlorobutadiene	1300	
59-50-7	4-Chloro 3 Methylphenol	1500	
91-57-6	2-Methylnaphthalene	1300	
77-47-4	Hexachlorocyclopentadiene	1400	
88-06-2	2,4,6-Trichlorophenol	1400	
95-95-4	2,4,5-Trichlorophenol	1400	
91-58-7	2-Chloronaphthalene	1400	
88-74-4	2-Nitroaniline	1500	
131-11-3	Dimethylphthalate	1500	
208-96-8	Acenaphthylene	1400	
606-20-2	2,6-Dinitrotoluene	1500	
99-09-2	3-Nitroaniline	720	
83-32-9	Acenaphthene	1400	

FORM I SV-1 OLM03.0

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

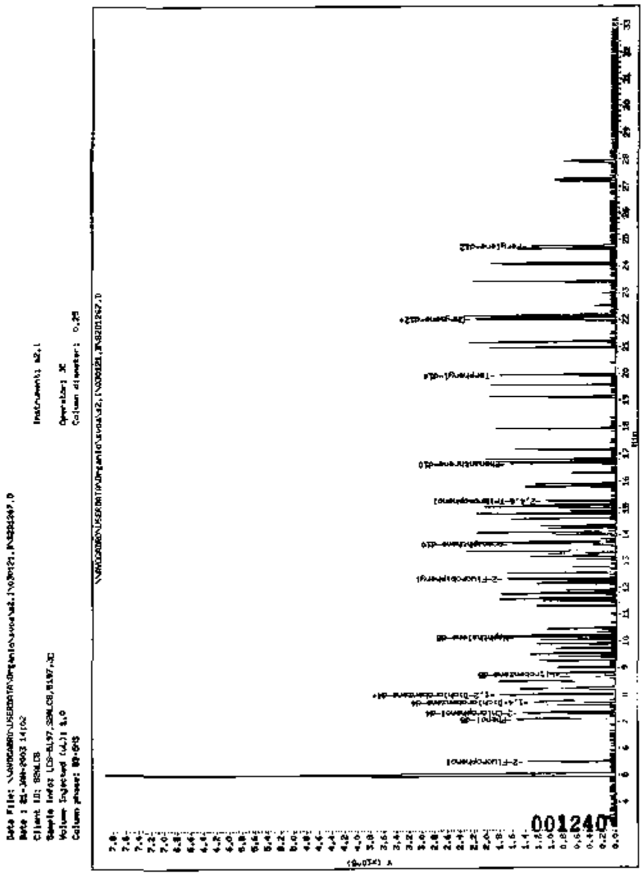
EPA SAMPLE NO.: S2ALCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: LCS-5197
Sample wt/vol: 30.0 (g/mL) G Lab File ID: S2D1267
Level: (low/med) LOW Date Received: ____
% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/17/03
Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/21/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1500	
100-02-7	4-Nitrophenol	1500	
132-64-9	Dibenzofuran	1400	
121-14-2	2,4-Dinitrotoluene	1500	
84-66-2	Diethylphthalate	1500	
7005-72-3	4-Chlorophenyl-phenylether	1500	
86-73-7	Fluorene	1500	
100-01-6	4-Nitroaniline	1200	
534-52-1	4,6-Dinitro-2-methylphenol	1500	
86-30-6	N-Nitrosodiphenylamine (1)	1900	
101-55-3	4-Bromophenyl-phenylether	1500	
118-74-1	Hexachlorobenzene	1500	
87-86-5	Pentachlorophenol	1400	
85-01-8	Phenanthrene	1600	
120-12-7	Anthracene	1600	
86-74-8	Carbazole	1700	
84-74-2	Di-n-butylphthalate	1600	
206-44-0	Fluoranthene	1500	
129-00-0	Pyrene	1600	
85-68-7	Butylbenzylphthalate	1700	
91-94-1	3,3'-Dichlorobenzidine	420	
56-55-3	Benzo(a)anthracene	1500	
218-01-9	Chrysene	1500	
117-81-7	bis(2-Ethylhexyl)phthalate	1600	
117-84-0	Di-n-octylphthalate	1500	
205-99-2	Benzo(b)fluoranthene	1400	
207-08-9	Benzo(k)fluoranthene	1800	
50-32-8	Benzo(a)pyrene	1500	
193-39-5	Indeno(1,2,3-cd)pyrene	1300	
53-70-3	Dibenzo(a,h)anthracene	1500	
191-24-2	Benzo(g,h,i)perylene	1500	

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0



Data File: S2D1267.D
Report Date: 24-Jan-2003 11:24

Mitkem Corporation

Data file : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\S2D1267.D
Lab Smp Id: LCS-5197 Client Smp ID: S2ALCS
Inj Date : 21-JAN-2003 14:02
Operator : JC Inst ID: s2.i
Smp Info : LCS-5197,S2ALCS,5197,JC
Misc Info : 3.,LCS,2,,,,,,,17-JAN-03
Comment :
Method : \\AVOGADRO\USERDATA\Organic\svoa\s2.I\030121.B\s2_8270C.m
Meth Date : 22-Jan-2003 13:42 mcl Quant Type: ISTD
Cal Date : 18-JAN-2003 12:56 Cal File: S2D1202.D
Als bottle: 33 QC Sample: LCS✓
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8270C.sub
Target Version: 4.03
Processing Host: TARGET7

Concentration Formula: Amt * DF * Uf*(Vt/Vi)*(1/Ws)*(100/(100-M))

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	GPC correction factor
Vt	1000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
$ 3 2-Fluorophenol	112	5.523	5.508	(0.713)	68251	63.9869	2100
$ 5 Phenol-d5	99	7.110	7.104	(0.918)	84833	64.8873	2300
6 Phenol	94	7.133	7.125	(0.921)	60261	42.1103	1400
8 bis(2-Chloroethyl)ether	93	7.203	7.207	(0.930)	41063	39.7921	1300
$ 9 2-Chlorophenol-d4	132	7.340	7.341	(0.948)	72645	68.4441	2200
10 2-Chlorophenol	128	7.369	7.373	(0.951)	48330	41.8561	1400
11 1,3-Dichlorobenzene	146	7.629 →	7.642	(0.988)	46945	39.0700	1300
* 12 1,4-Dichlorobenzene-d4	152	7.747	7.751	(1.000)	33560	40.0000	
13 1,4-Dichlorobenzene	146	7.779 —	7.773	(1.004)	46046	38.5718	1300
$ 14 1,2-Dichlorobenzene-d4	152	8.020	8.031	(1.036)	37335	40.0176	1300
15 1,2-Dichlorobenzene	146	8.040 —	8.053	(1.039)	45838	40.8661	1400
17 2-Methylphenol	108	8.222	8.219	(1.061)	43604	44.0487	1500
18 2,2'-oxybis(1-Chloropropane)	45	8.265	8.283	(1.067)	67492	40.2806	1300

Data File: S2D1267.D
Report Date: 24-Jan-2003 11:24

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
19 4-Methylphenol	108	8.316	8.318	(1.073)	47255	45.1849	1500
19 N-Nitroso-di-n-propylamine	70	8.503	8.510	(1.099)	27224	48.7564	1600
21 Hexachloroethane	117	8.679	8.688	(1.120)	17443	39.2832	1300
$ 22 Nitrobenzene-d5	82	8.783	8.777	(0.865)	43886	40.7438	1400
23 Nitrobenzene	77	8.816	8.818	(0.869)	43323	40.5389	1400
24 Isophorone	82	9.280	9.284	(0.914)	61614	43.3489	1400
25 2-Nitrophenol	139	9.490	9.435	(0.930)	27282	39.7350	1300
26 2,4-Dimethylphenol	107	9.528	9.537	(0.938)	38644	37.4931	1200
27 bis(2-Chloroethoxy)methane	93	9.712	9.716	(0.956)	51594	44.4247	1500
29 2,4-Dichlorophenol	162	9.893	9.898	(0.974)	36220	42.1171	1400
30 1,2,4-Trichlorobenzene	180	10.046	10.053	(0.989)	39021	40.3091	1300
* 31 Naphthalene-d8	136	10.154	10.159	(1.000)	117497	40.0000	
32 Naphthalene	128	10.198	10.202	(1.004)	136053	41.4283	1400
33 4-Chloroaniline	127	10.316	10.320	(1.016)	14716	11.5099	380
34 Hexachlorobutadiene	225	10.446	10.453	(1.029)	30790	38.8205	1300
36 4-Chloro-3-Methylphenol	107	11.303	11.305	(1.114)	40761	44.5424	1500
36 2-Methylnaphthalene	142	11.579	11.584	(1.140)	81993	40.1909	1300
38 Hexachlorocyclopentadiene	237	11.843	11.888	(0.870)	20053	45.4840	1400
39 2,4,6-Trichlorophenol	196	12.191	12.186	(0.888)	28068	42.5671	1400
40 2,4,5-Trichlorophenol	196	12.327	12.330	(0.898)	30057	41.4166	1400
$ 41 2-Fluorobiphenyl	172	12.395	12.320	(0.903)	82435	42.1976	1400
42 2-Chloronaphthalene	162	12.451	12.588	(0.918)	77698	42.7785	1400
43 2-Nitroaniline	65	12.778	12.783	(0.930)	55929	44.3799	1500
44 Dimethylphthalate	163	13.164	13.181	(0.864)	89145	46.2863	1500
45 2,6-Dinitrotoluene	165	13.283	13.289	(0.873)	26016	44.2144	1500
46 Acenaphthylene	152	13.283	13.288	(0.978)	151626	43.2889	1400(M)
47 3-Nitroaniline	138	13.469	13.424	(0.995)	15406	21.7199	720
* 48 Acenaphthene-d10	164	13.674	13.667	(1.000)	66386	40.0000	
49 Acenaphthene	153	13.738	13.742	(1.005)	93597	43.4413	1400
50 2,4-Dinitrophenol	184	13.818	13.860	(1.013)	12328	45.3013	1500
51 4-Nitrophenol	109	13.997	14.003	(1.024)	11754	45.8887	1500
52 2,4-Dinitrotoluene	165	14.099	14.098	(1.033)	14213	46.4495	1500
53 Dibenzofuran	168	14.044	14.088	(1.030)	115640	45.2587	1400
54 Diethylphthalate	149	14.613	14.617	(1.069)	102600	46.1838	1500
56 4-Chlorophenyl-phenylether	204	14.407	14.421	(1.085)	68888	44.4060	1500
55 Fluorene	166	14.785	14.779	(1.081)	95065	44.2073	1500
57 4-Nitroaniline	138	14.850	14.854	(1.086)	23750	36.5385	1200
58 4,6-Dinitro-2-methylphenol	198	14.919	14.930	(0.894)	21266	48.8069	1500(Q)
59 N-Nitrosodiphenylamine	169	15.056	15.060	(0.903)	85918	57.4779	1900
$ 60 2,4,6-Tribromophenol	330	15.273	15.275	(0.916)	32904	68.3459	2300
61 4-Bromophenyl-phenylether	248	15.769	15.734	(0.967)	28424	44.3793	1500
62 Hexachlorobenzene	284	15.847	15.831	(0.953)	30788	45.0868	1500
63 Pentachlorophenol	266	16.293	16.361	(0.977)	14499	41.3883	1400
* 64 Phenanthrene-d10	188	16.676	16.678	(1.000)	111820	40.0000	
65 Phenanthrene	178	16.721	16.729	(1.003)	158171	47.3468	1600
66 Anthracene	178	16.826	16.830	(1.009)	158711	46.7022	1600
67 Carbazole	167	17.171	17.175	(1.030)	122118	50.1007	1700

MF pk milled

Data File: S2D1267.D
Report Date: 24-Jan-2003 11:24

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/Kg)
68 Di-n-butylphthalate	149	17.948	17.942	(1.076)	178765	46.8815	1600
69 Fluoranthene	202	19.158	19.160	(1.149)	143984	45.4020	1500
71 Pyrene	202	19.589	19.594	(0.889)	151711	48.8527	1600
$ 72 Terphenyl-d14	244	19.944	19.950	(0.905)	165854	58.8272	1900
73 Butylbenzylphthalate	149	20.983	20.998	(0.952)	71997	50.0558	1700
74 3,3'-Dichlorobenzidine	252	21.997	22.012	(0.998)	33507	12.5086	420
75 Benzo(a)anthracene	228	22.029	22.035	(0.999)	153901	45.5786	1500
* 76 Chrysene-d12	240	22.051	22.058	(1.000)	108659	40.0000	
78 bis(2-Ethylhexyl)phthalate	149	22.169	22.176	(1.005)	100694	47.5729	1600
77 Chrysene	228	22.074	22.108	(1.003)	175085	45.7310	1500
79 Di-n-octylphthalate	149	23.432	23.428	(0.846)	169185	45.8489	1500
80 Benzo(b)fluoranthene	252	24.098	24.063	(0.872)	125089	43.6870	1400
81 Benzo(k)fluoranthene	252	24.312	24.117	(0.876)	188626	53.1598	1800
82 Benzo(a)pyrene	252	24.692	24.667	(0.898)	133578	45.0035	1500
* 83 Perylene-d12	264	24.760	24.764	(1.000)	40988	40.0000	
84 Indeno(1,2,3-cd)pyrene	276	27.200	27.219	(1.098)	115986	40.2015	1300
85 Dibenzo(a,h)anthracene	278	27.265	27.280	(1.101)	100711	44.2086	1500
86 Benzo(g,h,i)perylene	276	27.945	27.960	(1.129)	109967	45.4104	1500

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

✓ 1/24/03

MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : SEMIVOLATILES

Date: 12-26-02 | Analysis: 8270 | Method & SOP #: Aq 3510C (SepF) / Soil 3550B (Sonic) / 3520C (Liq/Liq) / 3540C (Soxhlet) | Other: | Matrix: Aqueous / Soil / Wipe / Oil / Other: | Project(s): A1905, A1909

Blank ID: MB 4921 | LCS ID: LCS 4921 | Analyst: BP | Spiked By: BP | Witness: (PD) | Solvent Lot#: X13E04 | H_2SO_4 Lot#: 319020 | NaOH Lot#: | Time Started: 1700 | Time Ended: 1509

Project ID	Sample ID	Sample Wt (g) / Vol (ml)	Surrogate Spike Added	Matrix Spike Added	H_2SO_4 pH<2	NaOH pH > 10	Emulsion	KD Prior to Fractionation Date / Analyst	Fractionation Date / Analyst	Final Concentration Date / Analyst		Final Conc. Volume	Date Extract Trans.
MB (BP) 4921	—	1000ml	05W02123B Soml		✓					12-26-02	BP	1ml	12-26
LCS 4921	—	↓	05W02123B Soml	05W02123B Soml	↓	↓				12-26-02	BP	1ml	12-26
A1905	007	↓	↓	↓	↓	✓				12-29-02	↓	1ml	12-29-02
↓	014	1000ml	05W02131EB Soml	↓	✓	✓				↓	↓	1ml	↓
↓	016	500ml	05W02131EB 850ml	↓	✓	✓				↓	↓	1ml	↓
A1905	018	500ml	05W02131EB 850ml	↓	✓	✓				12-29-02	TB	1ml	12-29-02
A1909	001	1000ml	05W02131EB Soml	↓	✓	✓				12-26-02	BP	1ml	12-26
↓	001MS	↓	↓	05W02123B Soml	↓	✓				↓	↓	1	↓
A1909	001MSD	1000ml	05W02131EB Soml	05W02123B Soml	✓	✓				12-26-02	BP	1ml	12-26

Comments:

Sonicator Tuned: Yes / No

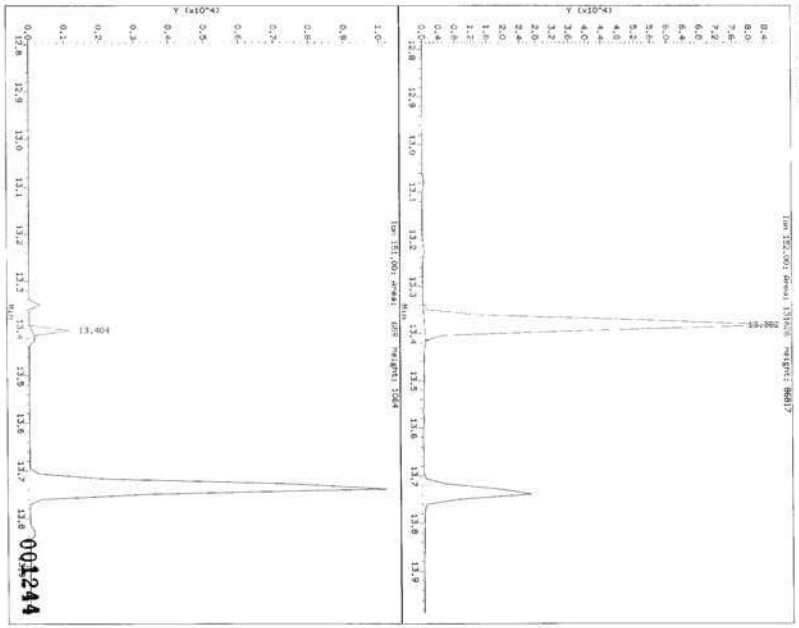
Water Bath Temperature: 40°C

Logbookk ID 50.0147-5/02

Reviewed By: JBL 1/29/03

Logbook Page

001244



001244

MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : SEMIVOLATILES

Date: 12-27-02 | Analysis: 8270 | Method & SOP #: Aq 3510C (SepF) / Soil 3550B (Sonic) / 3520C (Liq/Liq) / 3540C (Soxhlet) | Other: | Matrix: Aqueous / Soil / Wipe / Oil / Other: | Project(s): A1905

Blank ID: MB-4928 | LCS ID: LCS-4928, LCSD-4928 | Analyst: TB | Spiked By: TB | Witness: (PD) | Solvent Lot#: X13E04 | H_2SO_4 Lot#: | NaOH Lot#: | Time Started: 1400 | Time Ended: 1600

Project ID	Sample ID	Sample Wt (g) / Vol (ml)	Surrogate Spike Added	Matrix Spike Added	H_2SO_4 pH<2	NaOH pH > 10	Emulsion	KD Prior to Fractionation Date / Analyst	Fractionation Date / Analyst	Final Concentration Date / Analyst		Final Conc. Volume	Date Extrac Trans
MB-4928	—	30.0	05W02123A 500ml	—						12-28-02	TB	1ml	12-28-02
LCS-4928	↓	30.0	↓	05W02123A 500ml						↓	↓	↓	↓
LCSD-4928	↓	30.0	↓	05W02123A 500ml						↓	↓	↓	↓
A1905	01	30.2 ✓	↓	↓						↓	↓	↓	↓
↓	02	30.1 ✓	↓	↓						↓	↓	↓	↓
↓	03	30.1 ✓	↓	↓						↓	↓	↓	↓
↓	05	30.6 ✓	↓	↓						↓	↓	↓	↓
↓	06	30.7 ✓	↓	↓						↓	↓	↓	↓
↓	11	30.4 ✓	↓	↓						↓	↓	↓	↓
↓	12	30.0 ✓	↓	↓						↓	↓	↓	↓
↓	13	30.2 ✓	↓	↓						↓	↓	↓	↓
A1905	29	30.1 ✓	05W02123A 500ml	—						12-28-02	TB	1ml	12-28-02

Comments:

Sonicator Tuned: Yes / No

Water Bath Temperature:

Logbookk ID 50.0147-5/02

Reviewed By: JBL 1/29/03

Logbook Page 0007

MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : SEMIVOLATILES

Date: 12-24-02 | Analysis: 8270 | Method & SOP #: Aq 3510C (SepF) / Soil 3550B (Sonic) / 3520C (Liq/Liq) / 3540C (Soxhlet) | Other: | Matrix: Aqueous / Soil / Wipe / Oil / Other: | Project(s): A1905, A1909

Blank ID: MB-4910 | LCS ID: LCS-4910 | Analyst: BP | Spiked By: BP | Witness: (PD) | Solvent Lot#: X13E04 | H_2SO_4 Lot#: 319020 | NaOH Lot#: | Time Started: 13:00 | Time Ended: 15:00

Project ID	Sample ID	Sample Wt (g) / Vol (ml)	Surrogate Spike Added	Matrix Spike Added	H_2SO_4 pH<2	NaOH pH > 10	Emulsion	KD Prior to Fractionation Date / Analyst	Fractionation Date / Analyst	Final Concentration Date / Analyst		Final Conc. Volume	Date Extract Trans.
MB-4910	—	1000mL	05W02123A 500mL	—	✓					12/24/02	(PD)	1mL	12/24/02
LCS-4910	—	↓	↓	05W02123A 500mL	✓					12/24/02	(PD)	1mL	12/24/02
A1904	01	↓	↓	↓	—					↓	↓	↓	↓
↓	02	↓	↓	↓	↓					12/29/02	TB	1mL	12/29/02
↓	08	↓	↓	↓	↓					↓	↓	↓	↓
↓	08MS	↓	↓	05W02123A 500mL	↓					↓	↓	↓	↓
↓	08MSD	↓	↓	05W02123A 500mL	↓					↓	↓	↓	↓
↓	04	↓	↓	↓	↓					↓	↓	↓	↓
↓	05	↓	↓	↓	↓					↓	↓	↓	↓
A1904	06	↓	↓	↓	✓ (BP 12-26-02)					↓	↓	↓	↓
A1905	26	↓	↓	↓	✓					12/29/02	TB	1mL	12/29/02
A1909	03	↓	05W02123A 500mL	↓	✓					12/26/02	(PD)	1mL	12/26/02
A1909	04	1000mL	↓	↓	✓					12/26/02	(PD)	1mL	12/26/02

Comments:

Sonicator Tuned: Yes / No

Water Bath Temperature: 40°C

Logbookk ID 50.0147-5/02

Reviewed By: JBL 1/29/03

Logbook Page 0002

MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : SEMIVOLATILES

Date: 1-20-03	Analysis: 8270	Method & SOP #	Aq: 3510C (SepF) / Soil: 3550B (Sonic)	3520C (Liq/Liq) / 3540C (Soxhlet)	Other	Matrix: Aqueous (Soil) Wipe Oil Other	Project(s) B0098, B0014, A1905, B0039, B0097
Blank ID: MB 5197	LCS ID: LCS 5197	Analyst: 8P	Spiked By: 8P	Witness	Solvent Lot# X13E04	H_2SO_4 Lot# / NaOH Lot#	Time Started: 10:00 / Time Ended: 11:00

Project ID	Sample ID	Sample Wt (g) / Vol (ml)	Surrogate Spike Added	Matrix Spike Added	H_2SO_4 pH<2	NaOH pH > 10	Emulsion	KD Prior to Fractionation Date / Analyst	Fractionation Date / Analyst	Final Concentration Date / Analyst	Final Conc. Volume	Date Extract Trans.
MB 5197	—	30.0	05WE3011HA 500ul	—						1-20-03 8P	1mL	1-20-03
LCS 5197	—	30.0		05WO3011HB 500ul								
A1905	* 001 RE	30.8										
	* 002 RE	30.6										
	* 003 RE	30.5										
	005 RE	30.9										
A1905	006 RE	30.2										
B0014	001 RE	30.4						8P 1/20/03		1-20-03 8P	5mL	1-20-03
B0039	001	30.7										
B0097	001	30.4										
	002	30.5										
	003	30.3										
	004	30.4										
	005	30.1										
	006	30.6										
	007	30.4										
	008	30.7										
	009	30.9										
B0097	010	30.3										
B0098	021	30.0	05WO3011HA 500ul									

Comments: * Extracted only with CH_2Cl_2, Sample Consists of Concrete.
(*) FV=5mL Due to Color & Viscosity

Sonicator Tuned: (Yes) / No
Water Bath Temperature: 35°C

Logbookk ID 50.0147-5/02 Reviewed By: SGL 1/29/03 Logbook Page 0045

001248

Percent Moisture and Percent Solids Report

Mitkem Sample ID	Client Sample ID	Analyzed	Percent Moisture	Percent Solids	Validated
A1905-04A	AOC3SSTB4902	12/31/2002	9	91	Yes
A1905-05A	AOC3SSTB5312	12/31/2002	7 ✓	93	Yes
A1905-06A	AOC3SSTB5402	12/31/2002	9 ✓	91	Yes
A1905-11A	AOC3SSD5A45	12/31/2002	9 ✓	91	Yes
A1905-12A	AOC3SSD5B45	12/31/2002	10 ✓	90	Yes
A1905-13A	AOC3SSTB4945	12/31/2002	11 ✓	89	Yes
A1905-15A	AOC5SSTB6267	12/31/2002	43	57	Yes
A1905-17A	AOC7SSTB6578	12/31/2002	43	57	Yes
A1905-19A	AOC5ASSTB6956	12/31/2002	11	89	Yes
A1905-20A	AOC5ASSD7A56	12/31/2002	8	92	Yes
A1905-21A	AOC5ASSD7B56	12/31/2002	8	92	Yes
A1905-22A	AOC6SSTB7167	12/31/2002	37	63	Yes
A1905-23A	AOC5ASSTB7002	12/31/2002	7	93	Yes
A1905-24A	AOC5ASSTB6978	12/31/2002	49	51	Yes
A1905-25A	AOC5ASSTB68015	12/31/2002	7	93	Yes
A1905-27A	AOC2TB5512	12/31/2002	8	92	Yes
A1905-28A	AOC2TB24	12/31/2002	9 ✓	91	Yes
A1905-29A	AOC2TB5802	12/31/2002	5	95	Yes
A1905-30A	AOC2TB57675	12/31/2002	11	89	Yes

001249

Saturday, January 18, 2003 Page 1 of 1

MITKEM CORPORATION EXTRACT TRANSFER LOGBOOK: SEMIVOLATILE ANALYSIS

Date Transferred from Prep Lab	Lab ID		Transferred By	Received By	Storage Location	Comments
12/23/02	A1879	01	(PB)	GL	R7	
12-24-02	MB 4876	—	8P			
	LCS 4876	—				
	LCSD 4876	—				
	A1865	001				
	↓	002				
		003				
	A1865	004				
	A1882	001				
	A1896	002				
	A1897	001				
	↓	002				
		003				
	A1897	004				
	~~A1899~~ (8P)					
	A1900	001				
	↓	002				
		003				
	A1900	004				
	A1901	001				
		002				
	↓	003				
12-24-02	A1901	004	8P	GL	R7	
12/20/02	MB-4857	—	(PR)	[illegible]	R7	
	A1829-0	05MS		↓	↓	
	A1829	05MSD		[illegible]	R7	
	MB-4858	—		GL	R7	
	LFB-4858	—				
	A1798	07RE				
	MB-4906	—				
	LCS-4906	↓				
	LCSD-4906	—				
	A1896	02				
	MB-4910	—				
12/20/02	LCS-4910	—	(PB)	GL	R7	

Logbook ID 70.0141-1/02 Reviewed By: GL 1/6/03 Logbook Page 000043

001250

MITKEM CORPORATION EXTRACT TRANSFER LOGBOOK: SEMIVOLATILE ANALYSIS

Date Transferred from Prep Lab	Lab ID		Transferred By	Received By	Storage Location	Comments
12/26/02	A1909	03	(PB)	GL	R7	
12/26/02	A1909	04	(PB)			
	MB 4921	—	8P			
	LCS 4921	—				
	A1909	001				
	↓	001MS				
12-26-02	A1909	001MSD	8P	GL		
12-27-02	A1876	001	TB	JC	R7	
		002				
		003				
		003MS				
		003MSD				
		004				
		005				
		006				
		007				
		008				
		009				
12-27-02	A1876	010	TB	JC	R7	
12-27-02	MB-4902	—	(PR)	JC	R7	
	MDLC	05				
		06				
		07				
		08				
		09				
		10				
12-27-02	MDLC	11	(PR)	JC	R7	
12-27-02	MB-4931	—	(PR)	BMF	R12A	
	LCS-4931					
	LCSD-4931	—				
12-27-02	A1896	02	(PR)	BMF	R12A	
12-28-02	MB 4928		TB	[illegible]	R7	
	LCS 4928					
	LCSD 4928					
12-28-02	A1905	001	TB	[illegible]	R7	

Logbook ID 70.0141-1/02 Reviewed By: GL 1/6/03 Logbook Page 000044

001251

MITKEM CORPORATION EXTRACT TRANSFER LOGBOOK: SEMIVOLATILE ANALYSIS

Date Transferred from Prep Lab	Lab ID		Transferred By	Received By	Storage Location	Comments
12-28-02	A1905	002	TB	MN	R7	
		003				
		005				
		006				
		011				
		012				
		013				
12-28-02	A1905	028	TB	MN	R7	
12-28-02	MB 4912		TB	MN	R7	
	LCS 4912					
	LCSD 4912					
	MB 4924					
	LCS 4924					
	LCSD 4924					
	A1905	014				
		016				½ ml FV
		015				½ ml FV
12-28-02	A1905	026	TB	MN	R7	
12-29-02	MB 4875		TB	JC		
	LCS 4875					
	MB 4905					
	LCS 4905					
	A1892	001				
		002				
		003				
		004				
		005				
		006				
		006 MS				
		006 MSD				
		006 MS B				
		006 MSD B				
		007				
		009				
12-29-02	A1892	010	TB	JC	R7	

Logbook ID 70.0141-1/02 Reviewed By: SBL 1/29/03 Logbook Page: 000252

MITKEM CORPORATION EXTRACT TRANSFER LOGBOOK: SEMIVOLATILE ANALYSIS

Date Transferred from Prep Lab	Lab ID		Transferred By	Received By	Storage Location	Comments
12-29-02	A1892	011	TB	JC	R7	
		012				
		013				
		014				
		015				
		016				
		017				
		018				
		019				
		020				
		021				
		022				
		023				
		024 B				
		024 BR				
		025				
		025 MS				
		025 MSD				
		25 MS B				
		25 MSD B				
		026				
		027				
		028				
		029				
		030				
	A1892	031		JC		
	SA1904	001		GL		
		002				
		003				
		003 MS				
		003 MSD				
		004				
		005				
	A1904	006				
12-29-02	SA1905	026	TB	GL	R7	

Logbook ID 70.0141-1/02 Reviewed By: SBL 1/29/03 Logbook Page: 000046 001253

MITKEM CORPORATION EXTRACT TRANSFER LOGBOOK: SEMIVOLATILE ANALYSIS

Date Transferred from Prep Lab	Lab ID		Transferred By	Received By	Storage Location	Comments
12-29-02	SA1905	007	TB	GL	R7	
		008				
		014				
		016				FV: ½ ml
12-29-02	SA1905	018	TB			FV: ½ ml
12-30-02	A1905	26	PN			
	A1898	01				
		02				
		03				
12-30-02	A1898	04	PN			
	MB 4841	—	SP			
	LCS 4841	—				
	A1870	004				
	A1875	001				
		002				
		003				
		003 MS				
		003 MSD				
		004				
		005				
		006				
	A1875	007				
	A1883	001				
		002				
		003				
		03 MS				
		03 MSD				
		004				
		005				
		006				
	A1883	008				
	MB 4263	—				
	LCS 4263	—				
	LCSD 4263	—				
12-30-02	A1832	001	SP	GL	R7	

Logbook ID 70.0141-1/02 Reviewed By: GL 1/22/03 Logbook Page: 000047 001254

MITKEM CORPORATION EXTRACT TRANSFER LOGBOOK: SEMIVOLATILE ANALYSIS

Date Transferred from Prep Lab	Lab ID		Transferred By	Received By	Storage Location	Comments
1-19-03	B0089	015	TB		R7	
		016				
		017				
		018				
		019				
	B0089	020			R7	
	MB 5140				R7	
	LCS 5140					
	LCSD 5140					
	B0076	001				
	B0076	002				FV: 2.5 ml
	B0076	003				
	B0079	003				FV: 2.5 ml
	B0079	004				FV: 2.5 ml
	B0082	001				FV: 2.5 ml
		002				
		003				
1-19-03	B0082	004	TB		R7	
1-20-03	MB 5193	—	SP	JC	R7	
	LCS 5193	—				
	A1905	001 MS				
		002 MS				
		003 MS				
		005 MS				
	A1905	006 MS				
	B0014	001 MS				Fv: 5ml
1-20-03	B0089	001	SP	JC	R7	
1-21-03	MB 5164	—	PK	JC	R12A	
	LCS 5164	—				
	LCSD 5164	—				
	B0078	01				
1-21-03	B0078	01	PK	JC	R12A	
					MN	GL 1/22/03

Logbook ID 70.0141-1/02 Reviewed By: GL 1/22/03 Logbook Page: 000062 001255

Mitkem Corporation SVOA GC/MS Logbook Instrument S2

Date 1/27/02 | Tune Time Begin EMV 2000 | Tune Time End | Initial Calibration Date 12/18/02 (8270) | TF PCP | % BKD DDT | Analyst Benzidine

File ID		Lab ID	Client ID	Method	Dilution	Comments	IS	Surr.
S2D08	36	ST1227A	DFTPP2Z	DFTPP				
	37	SS1227A	SSTD050Z	BNA				
	38	MB-4921	SBLK2F			OK		
	39	A1919-01B	MW-1			OK		
	40	AM09-01BMS	MW-1MS			1A OK		
	41	AM09-01BMSD	MW-1MSD			1A OK		
	42	LCS-4921	S2FLCS			1A OK		
	43	A1861-06A	4D-B			DIL		
	44	A1861-07A	5A-A			OK		
S2D08	45	CCV	CCV	BNA				

Daily Maintenance: Gold Seal, Liner, Clipped Column, Ferrule | Comments

Reviewed by SBL 1/29/03

Logbook ID 70.0168-2/02 | Logbook Page 000086

Mitkem Corporation SVOA GC/MS Logbook Instrument S2

Date 12/18/02 | Tune Time Begin 00:32 EMV 2000 | Tune Time End 04:40 | Initial Calibration Date 12/18(A)/02 | TF PCP | % BKD DDT | Analyst SL Benzidine

File ID		Lab ID		Client ID		Method	Dilution	Comments	IS	Surr.
S2D07	23	ST1218	A	DFTPP2	P	DFTPP		OK		
	24	SS1218	A	SSTD050Z	P	BNA				
	25		B	1602				OK for 8270 + 625 + TCLP etc		
	26		C	0102						
	27		D	0202						
	28		E	0802						
	29	SS1218	F	SSTD1202	P					
S2D07	30	ICV				BNA				

Daily Maintenance: Gold Seal, Liner, Clipped Column, Ferrule | Comments

Reviewed by SBL 1/29/03

Logbook ID 70.0168-2/02 | Logbook Page 000077

Mitkem Corporation SVOA GC/MS Logbook Instrument S2

Date 01/02/03 | Tune Time Begin 12:16 EMV 2000 | Tune Time End 00:16 | Initial Calibration Date 01/02/03 (8270) | TF PCP | % BKD DDT | Analyst Benzidine

File ID		Lab ID	Client ID	Method	Dilution	Comments	IS	Surr.
S2D09	32	SJ0103A	DFTPP2F	DFTPP		OK		
	33	SJ0103A	SSTD050ZF	BNA				
	34	SJ0103A	SSTD080ZF					
	35	SJ0103B	SSTD160ZF					
	36	SJ0103C	SSTD0102F					
	37	SJ0103A	SSTD050ZF			OK 8270 01/02/03		
	38	SJ0103D	SSTD020ZF					
	39	SJ0103E	SSTD080ZF					
	40	SJ0103F	SSTD120ZF					
S2D09	41	ICV	ICV	BNA		18.29		

Daily Maintenance: Gold Seal, Liner, Clipped Column, Ferrule | Comments

Reviewed by SBL 1/29/03

Logbook ID 70.0168-2/02 | Logbook Page 000094

Date 12-26-02 | Tune Time Begin 15:04 EMV 2000 | Tune Time End 18:04 | Initial Calibration Date 12-18-02 (8270) | TF PCP | % BKD DDT | Analyst JC Benzidine

File ID		Lab ID		Client ID		Method	Dilution	Comments	IS	Surr.
S2D08	12	ST1226D		DFTPP2Y		DFTPP		OK		
	13	SS1226D		SSTD050ZY		BNA		OK		
	14	MB-4906		SBLK2D				OK		
	15	LCS-4906		S2DLCS				1A		
	16	LCSD-4906		S2DLCSD				1A		
	17	A1696	02A	SV, S-2 S-3				OK		
	18	MB-4910		SBLK2E				OK		
	19	LCS-4910		S2ELCS				OK		
	20	A1904	03D	MW-5				OK		
S2D08	21	A1904	04B	Field Blank #6		BNA		OK		

Daily Maintenance: Gold Seal, Liner, Clipped Column, Ferrule | Comments

Reviewed by SBL 1/29/03

Logbook ID 70.0168-2/02 | Logbook Page 000084

Mitkem Corporation SVOA GC/MS Logbook Instrument S2

Date 1-16-03 | Tune Time Begin 1637 | Tune Time End 5:37 | Initial Calibration Date 1-2-03 S2?? | Analyst JC
EMV 2200 | TF PCP | % BKD DDT | Benzidine

File ID		Lab ID		Client ID		Method	Dilution	Comments	IS	Surr.
S2D09	72	STD/mm.A		DFTPP23		DFTPP		OK		
	73	SSAV02 A		SSTD05023		BNA		OK		
	74	MB-4882		SBLK2C				ok	✓	✓
	75	LCS-4882		S2CLCS				ok	✓	✓
	76	LCSD-4882		S2CLCSD				ok	✓	✓
	77	380O7	01A	BSL[illegible]				ok	✓	✓
	78	MB-4441		SBLK20				ok	✓	✓
	79	LCS-4441		S2DLCS				ok	✓	✓
	80	A1505	07A	AOC7BB3				ok	✓	✓
	81		08A	AOC7BB4				ok	✓	✓
	82		[illegible]	AOCSE7				ok	✓	✓
	83		16E	AOC[illegible]				ok	✓	✓
	84		18E	AOC[illegible]				ok	✓	✓
	85	A1605	26E	AOC2E6				ok	✓	✓
	86	A1875	01B	FIELD Blank				ok	✓	✓
	87	A1875	02A	Equip Blank				ok	✓	✓
S2D09	88	A1811	03DD	PLSS3		BNA	20X			

1/8/03

Daily Maintenance	Comments
Gold Seal	
Liner	
Clipped Column	
Ferrule	

Reviewed by JBL 1/29/03

Mitkem Corporation SVOA GC/MS Logbook Instrument S2

Date 01/03/03 | Tune Time Begin 19:05 | Tune Time End 7:05 | Initial Calibration Date 01/28/03 (S2?) | Analyst
EMV 2000 | TF PCP | % BKD DDT | Benzidine

File ID		Lab ID		Client ID		Method	Dilution	Comments	IS	Surr.
S2D09	42	ST0103C B		DFTPP26		DFTPP		OK		
	43	SS0103A B		SSTD05026		BNA		OK		✓
	44	MB-4928		SBLK2O		BNA	rerun		↑	✓
	45	MB-4876		SBLK2R		BNA			↓	
	~~46~~	~~LCS-4928~~		~~S2OLCS~~				File D.		
	~~47~~	~~LCSD-4928~~		~~S2OLCSD~~				not exist		✓
	48	LCS-4928		S2OLCS		BNA	rerun	several slightly low	↑	✓
	49	LCSD-4928		S2OLCSD				several slightly low	↑	✓
	50	A1905-	01D	AOC2CTCP6				rerun - same results	2↑	3↓
	51		02D	AOC3[illegible]					3↑	3↓
	52		03D	AOC7CT[illegible]					1↑	2↓
	53		05C	AOC3SSTB53[illegible]					1↑	✓
	54		06C	AOC3SSTB540L					6↑	1↓
	55		11A	AOC3SSD5A45					3↑	✓
	56		12A	AOC3SSD5B45					6↑	✓
	57		13A	AOC3SSTB4945					6↑	✓
	58	A1905	28A	AOC2TB24					6↑	✓
	59	LCS-4904		S2PLCS				several low	5↑	✓ OK
S2D09	60	LCSD-4904		S2PLCSD		BNA		several low 6:04	1↑	1↓

1/4/03

Daily Maintenance	Comments
Gold Seal	
Liner	
Clipped Column	
Ferrule	

Reviewed by JBL 1/29/03

Mitkem Corporation SVOA GC/MS Logbook Instrument S2

Date 1/18/03 | Tune Time Begin 07:22 | Tune Time End 20:24 | Initial Calibration Date 01/18/03 | Analyst
EMV 2000 | TF PCP | % BKD DDT | Benzidine

File ID		Lab ID		Client ID		Method	Dilution	Comments	IS	S
S2D 11	95	ST0118A		DFTPP2A		DFTPP				
	96	SS0118A		SSTD0502A		BNA		OK		
	97	SS0118B		SSTD1602A				ok		
	98	SS0118C		SSTD0102A				ok		
S2D 11	99	SS0118D		SSTD0202A				Not used, ok ??		
S2D 12	00	SS0118E		SSTD0802A				Other [illegible]		
	01	SS0118F		SSTD0?02A				ok		
	02	SS0118D		SSTD0202A				ok		
S2D 12	03	ICV		ICV				ok		
								ok 18:51		

OK 8270 Full 1/18/03

1/18/03

Daily Maintenance	Comments
Gold Seal	
Liner	
Clipped Column	
Ferrule	

Reviewed by JBL 1/29/03

Mitkem Corporation SVOA GC/MS Logbook Instrument S2

Date 01/03/03 | Tune Time Begin 19:05 | Tune Time End 7:05 | Initial Calibration Date 01/28/03 (S2?) | Analyst
EMV 2000 | TF PCP | % BKD DDT | Benzidine

File ID		Lab ID		Client ID		Method	Dilution	Comments	IS	Surr.
S2D09	42	ST0103C B		DFTPP26		DFTPP		OK		
	43	SS0103A B		SSTD05026		BNA		OK		✓
	44	MB-4928		SBLK2O		BNA	rerun		↑	✓
	45	MB-4876		SBLK2R		BNA			↓	
	~~46~~	~~LCS-4928~~		~~S2OLCS~~				File D.		
	~~47~~	~~LCSD-4928~~		~~S2OLCSD~~				not exist		✓
	48	LCS-4928		S2OLCS		BNA	rerun	several slightly low	↑	✓
	49	LCSD-4928		S2OLCSD				several slightly low	↑	✓
	50	A1905-	01D	AOC2CTCP6				rerun - same results	2↑	3↓
	51		02D	AOC3[illegible]					3↑	3↓
	52		03D	AOC7CT[illegible]					1↑	2↓
	53		05C	AOC3SSTB53[illegible]					1↑	✓
	54		06C	AOC3SSTB540L					6↑	1↓
	55		11A	AOC3SSD5A45					3↑	✓
	56		12A	AOC3SSD5B45					6↑	✓
	57		13A	AOC3SSTB4945					6↑	✓
	58	A1905	28A	AOC2TB24					6↑	✓
	59	LCS-4904		S2PLCS				several low	5↑	✓ OK
S2D09	60	LCSD-4904		S2PLCSD		BNA		several low 6:04	1↑	1↓

1/4/03

Daily Maintenance | Gold Seal | Liner | Clipped Column | Ferrule | Comments

Reviewed by JBL 1/29/03

Logbook ID 70.0168-2/02 001260 Logbook Page 000095

MITKEM CORPORATION: Sample Receipt Tracking Logbook

Project	Date Received	Client	Storage Location	#s/ Analyst/ Date In	#s/ Analyst/ Date Out	#s/ Analyst/ Date In	#s/ Analyst/ Date Out	#s/ Analyst/ Date In	#s/ Analyst/ Date Out	#s/ Analyst/ Date In	Dispose After	Date Disposed
A1901	12-21-02	TAMS (N)	SUB C3	01-04- TOC+ DIOX 01-12-	1-4 BH 12/24	1-4 BH 12/24	1-4 12-23-02 TJ	1-4 12-23-02 TJ			2-21-03	
A1902	12-21-02	TETRA TECH (N)	VOA I FLOOR H3	01-15 01-08, 10-15 "	1-8,10-15 8P 12-06	Empty 8P					3-21-03	
A1903	12/23	tyree	B2 metals M4	12/23 EL 01-06 01-06 EL	1-6 BH 12/24	1-6 BH 12/24						
A1904	12/23	D+B	B1 VOA	12/23 PAS 01-06	1-6 8P 12-24	Empty						
A1905	12/23	HRP	M2 B1 B2 VOA		1-3,6 BH 12/24 7-8,10 / 2-6 8P 12-24	1-3,6 7-8,10 BH 12/24 / Empty	[illegible] / 7,8,14,18 8P 10-26	[illegible] / Empty 8P 12-26	1-6,11-13 19-21,23,25,28 12-27-02 TJ / 14,16,15 [illegible] 16,18 BH 12/30	1-6,11-13 19-21,23,25,28 12-27-02 TJ / 14,16,15 [illegible] 16,18 BH 12/30	[illegible] WN [illegible] WN OUT 1-15-03 [illegible]	IN 1-13-03 [illegible]

Reviewed By: [signature]

Logbook ID 30.0187-1/02 | Logbook page 33

001265

Mitkem Corporation SVOA GC/MS Logbook Instrument S2

Date 1/18/03 | Tune Time Begin 14:27 | Tune Time End 3:27 | EMV 2000 | Initial Calibration Date 1/18/03 8270 | TF PCP | % BKD DDT | Analyst [signature] | Benzidine

File ID		Lab ID		Client ID		Method	Dilution	Comments	IS	Surr.
S2D 12	04	ST0118 B		DFTPP2B		DFTPP		OK		
↓	05	SS0118 B		SSTD0502B		BNA		OK	/	/
	06	MB-4928		SBLK2U		↓			/	/
	07	LCS-4928		S2U LCS				2↓ OK	/	/
	08	LCSD-4928		S2U LCSD				5↓	/	3↓
	09	A1905-	01D	AOC2CTCP	6			Re-extract	1↓	7↓
	10	↓	02D	AOC3CTCP	7			↓	1↓	4↓
	11		03D	AOC3CTCP	8				/	1↓
	12		05C	AOC7SSTB5312					/	2↓
	13	A1905-	06C	AOC3SSTB5402					/	/
	14	MB-5023		S2U SBLK2U				RR 1↓	1↓	/
	15	LCS-5023		S2U LCS				OK	/	/
	16	LCSD-5023		S2U LCSD		↓		some low	/	/
	17	B0048-01A		ASWE 010603					/	3↓
S2D12	18	CCV		CCV		BNA				

1/19/03

Daily Maintenance | Comments
Gold Seal
Liner
Clipped Column
Ferrule

Reviewed by SBC 1/29/03

Logbook ID 70.0168-3/02 | Logbook Page 0020

001263

MITKEM
CORPORATION

* Pesticide Organics *

001266

Mitkem Corporation SVOA GC/MS Logbook Instrument S2

Date 1-21-03 | Tune Time Begin 10:52 | Tune Time End 22:52 | EMV | Initial Calibration Date 1-18-03 8270 | TF PCP | % BKD DDT | Analyst JC | Benzidine

File ID		Lab ID		Client ID		Method	Dilution	Comments	IS	Surr.
S2D12	63	ST0121A		DFTPP2F		DFTPP		OK		
↓	64	SS0121A		SSTD0502F		BNA		OK		
	65	MB-5197		SBLK2A		↓		OK	✓	✓
	66	B0078	01B					OK	✓	✓
	67	LCS-5197		~~S2LCS~~ S2ALCS				OK	✓	✓
	68	A1883	06B	MWBS-02S				OK	✓	✓
	69	A1883	07B	MWBS-02 I				OK	✓	✓
S2D12	70	A1883	08B	MWBS-16S		BNA		OK	✓	✓
↓	71	A1905	01DRE	AOC3CTCP6		↓		Report w/initial ↓	1↓	3↓
	72	↓	02DRE	AOC3CTCP7					1↓	4↓
	73		03DRE	AOC3CTCP8				Report w/initial	1↓	4↓
	74		05CRE	AOC7SSTB5312				OK ↓	✓	✓
	75	A1905	06CRE	AOC3SSTB5402				OK Report w/initial	✓	✓
	76	B0089	01A	SB-BG-108-0705				OK	✓	✓
	77	B0059	01ADL	SPPV011303DL			10X	Surr below detection @ DL	✓	All ↓
↓	78	B0060	01ADL	CFPV011303DL			10X	Surr below detection @ DL	✓	All ↓
S2D12	79	A1870	04P	Well D-4		BNA			✓	1↓

1-22-03 JC

Daily Maintenance | Comments
Gold Seal
Liner
Clipped Column
Ferrule

Reviewed by [signature] 1/24/03

Logbook ID 70.0168-3/02 | Logbook Page 0024

001264

FORM 2
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

GC Column(1): CLPPEST2 ID: 0.53 (mm) GC Column(2): CLPPEST1 ID: 0.53 (mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK4A	88	94	106	104			0
02	P4ALCS	105	118	125	120			0
03	P4ALCSD	94	103	122	120			0
04	AOC3CTCP6	98	106	66	72			0
05	AOC3CTCP7	110	110	64	70			0
06	AOC3CTCP8	137	100	52	56			0
07	AOC3SSTB4902	93	103	81	78			0
08	AOC3SSTB5312	92	113	101	92			0
09	AOC3SSTB5402	81	122	96	90			0
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS
S1 (TCX) = Tetrachloro-m-xylene (18-153)
S2 (DCB) = Decachlorobiphenyl (46-140)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 3
SOIL PESTICIDE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: P4ALCS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
alpha-BHC	6.7		7.2	107	50-123
beta-BHC	6.7		7.4	110	42-154
delta-BHC	6.7		5.1	76	46-135
gamma-BHC (Lindane)	6.7		7.5	112	55-122
Heptachlor	6.7		7.9	118	42-148
Aldrin	6.7		7.6	113	52-129
Heptachlor epoxide	6.7		7.6	113	20-172
Endosulfan I	6.7		7.7	115*	6-114
Dieldrin	13		15	115	55-130
4,4'-DDE	13		16	123	50-142
Endrin	13		10	77	60-155
Endosulfan II	13		17	131	10-147
4,4'-DDD	13		14	108	25-143
Endosulfan sulfate	13		15	115	45-159
4,4'-DDT	13		17	131	54-143
Methoxychlor	67		82	122	48-151
Endrin ketone	13		22	169*	47-157
Endrin aldehyde	13		11	85	40-132
alpha-Chlordane	6.7		7.8	116	58-123
gamma-Chlordane	6.7		7.5	112	55-126

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL PESTICIDE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: P4ALCS

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
alpha-BHC	6.7	6.8	101	6	40	50-123
beta-BHC	6.7	7.5	112	2	40	42-154
delta-BHC	6.7	4.9	73	4	40	46-135
gamma-BHC (Lindane)	6.7	7.1	106	6	40	55-122
Heptachlor	6.7	7.7	115	2	40	42-148
Aldrin	6.7	7.2	107	5	40	52-129
Heptachlor epoxide	6.7	7.6	113	0	40	20-172
Endosulfan I	6.7	7.8	116*	1	40	6-114
Dieldrin	13	16	123	7	40	55-130
4,4'-DDE	13	16	123	0	40	50-142
Endrin	13	18	138	57*	40	60-155
Endosulfan II	13	17	131	0	40	10-147
4,4'-DDD	13	15	115	6	40	25-143
Endosulfan sulfate	13	16	123	7	40	45-159
4,4'-DDT	13	17	131	0	40	54-143
Methoxychlor	67	82	122	0	40	48-151
Endrin ketone	13	18	138	20	40	47-157
Endrin aldehyde	13	14	108	24	40	40-132
alpha-Chlordane	6.7	7.7	115	1	40	58-123
gamma-Chlordane	6.7	7.2	107	4	40	55-126

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 20 outside limits
Spike Recovery: 3 out of 40 outside limits

COMMENTS: _____

FORM 4
PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.
PBLK4A

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab Sample ID: MB-4929 Lab File ID: E4B7023F

Matrix (soil/water) SOIL Extraction: (SepF/Cont/Sonc) SONC

Sulfur Cleanup (Y/N) Y Date Extracted: 12/27/02

Date Analyzed (1): 01/09/03 Date Analyzed (2): 01/09/03

Time Analyzed (1): 0302 Time Analyzed (2): 0302

Instrument ID (1): E4 Instrument ID (2): E4

GC Column (1): CLPPEST2 ID: 0.53(mm) GC Column (2): CLPPEST1 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	P4ALCS	LCS-4929	01/09/03	01/09/03
02	P4ALCSD	LCSD-4929	01/09/03	01/09/03
03	AOC3CTCP6	A1905-01D	01/09/03	01/09/03
04	AOC3CTCP7	A1905-02D	01/09/03	01/09/03
05	AOC3CTCP8	A1905-03D	01/09/03	01/09/03
06	AOC3SSTB4902	A1905-04C	01/09/03	01/09/03
07	AOC3SSTB5312	A1905-05C	01/09/03	01/09/03
08	AOC3SSTB5402	A1905-06C	01/09/03	01/09/03
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

AOC3CTCP6

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-01D

Sample wt/vol: 30.2 (g/mL) G Lab File ID: E4B7026F

% Moisture: 0 decanted: (Y/N) N Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/27/02

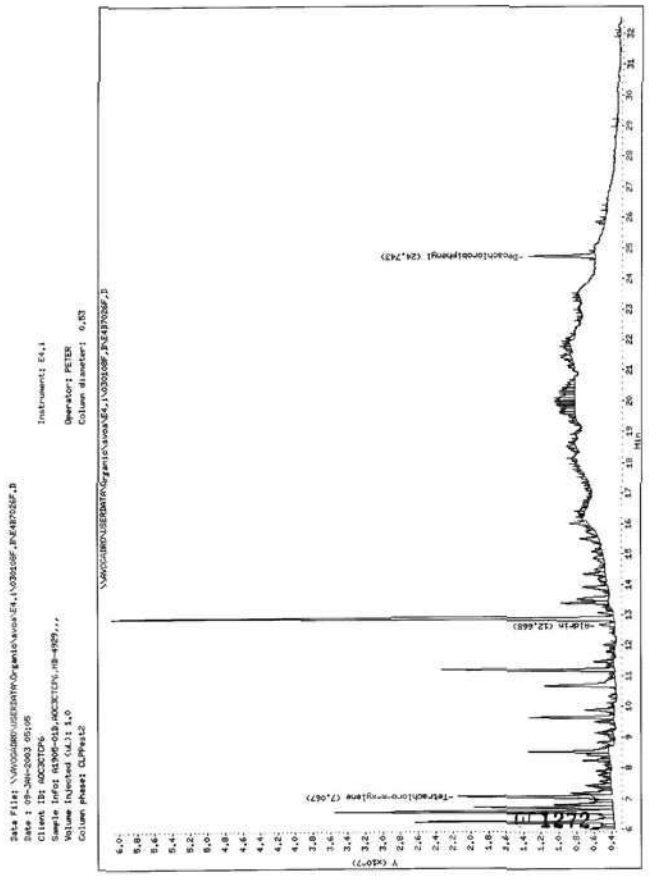
Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/09/03

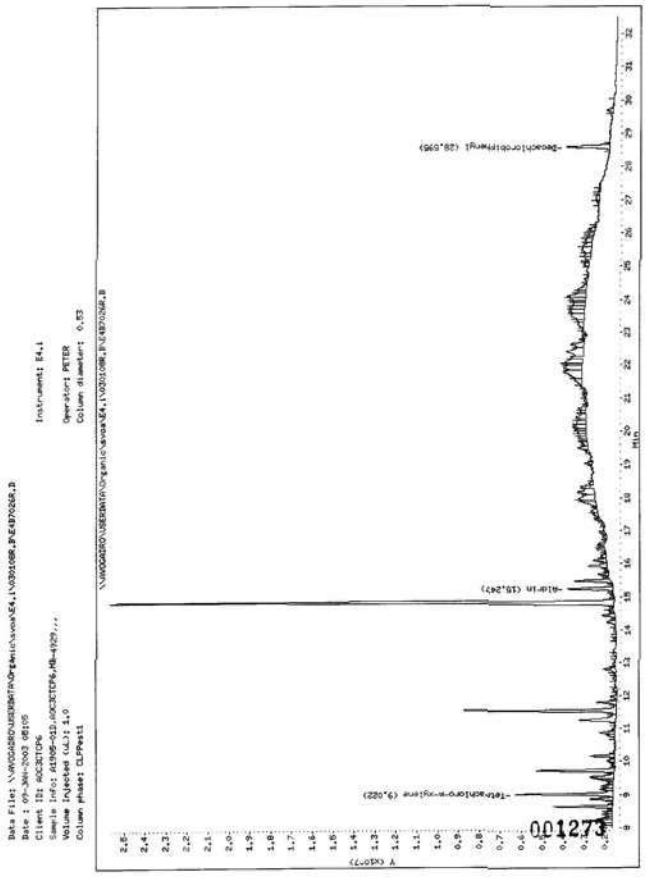
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	P
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-36-3	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U

FORM I PEST





Data File: E4B7026F.D
Report Date: 10-Jan-2003 12:50

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\E4B7026F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\E4B7026R.D
Inj Date : 09-JAN-2003 05:05
Sample Info: A1905-01D,AOC3CTCP6,MB-4929,,,
Misc Info :
Cal Date : 09-JAN-2003 14:49
Operator : PETER
Inst ID : E4.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\e48081A-f.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\e48081A-r.m
Sub List #1 : 8081a.sub
Sub List #2 : 8081a.sub
Col #1 Phase : CLPPest2
Col #2 Phase : CLPPest1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.200	Weigth of sample extracted (g)
M	0.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Tetrachloro-m-xylene	7.067	9.022	52059459	15826365	13	14		100.00(M)
Decachlorobiphenyl	24.743	28.595	31104035	9701075	8.8	9.5		100.00
Aldrin	12.668	15.247	9591498	8510893	1.7	6.2		100.00

52 1/10/03 MJ

QC Flag Legend

M - Compound response manually integrated.

52 1/10/03

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC3CTCP7

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-02D

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E4B7027F

% Moisture: 0 decanted: (Y/N) N Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/27/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/09/03

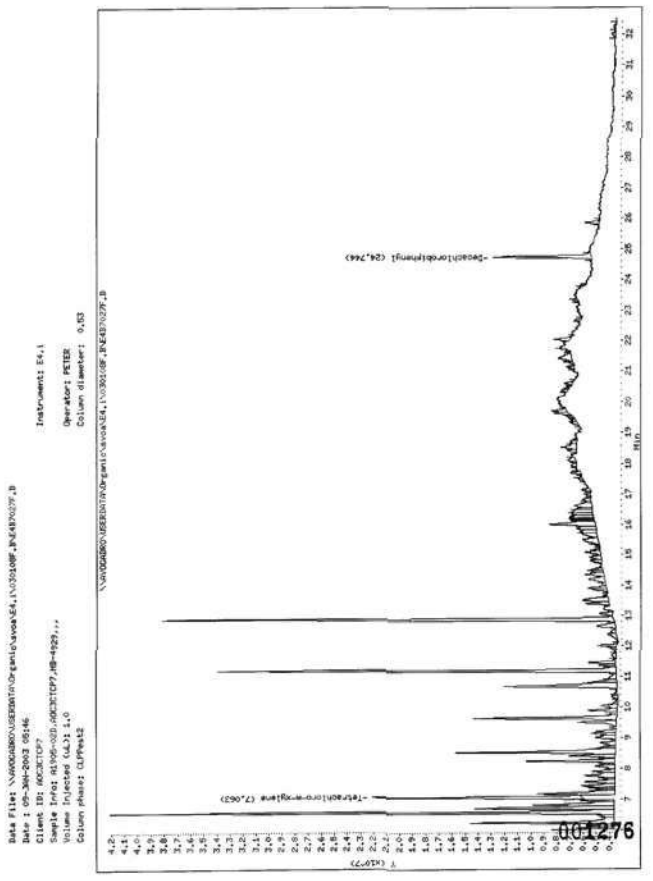
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

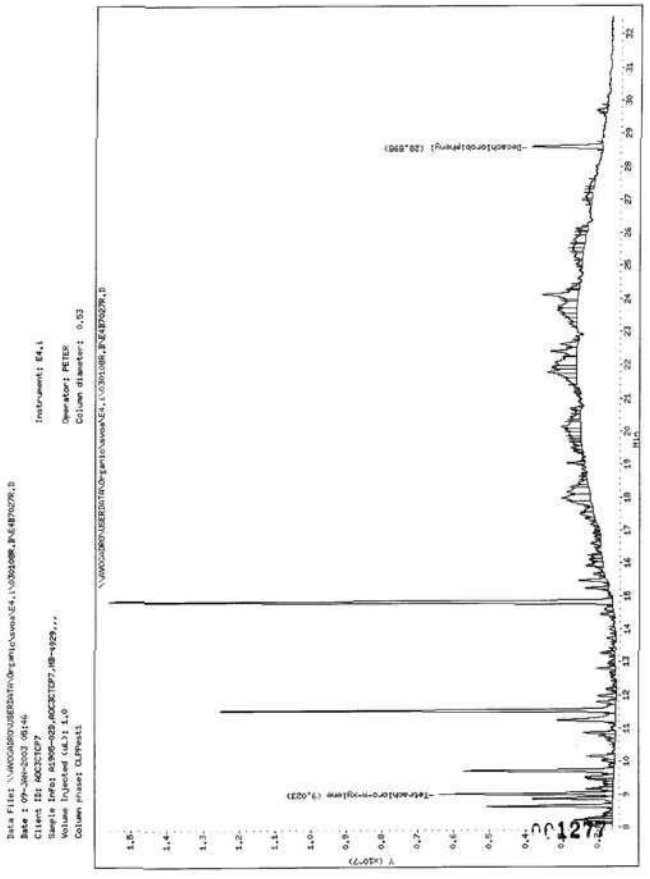
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-36-3	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U

FORM I PEST

1275



001276



001277

Data File: E4B7027F.D
Report Date: 10-Jan-2003 12:50

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\E4B7027F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\E4B7027R.D
Inj Date : 09-JAN-2003 05:46
Sample Info : A1905-02D,AOC3CTCP7,MB-4929,,,
Misc Info :
Cal Date : 09-JAN-2003 14:49
Operator : PETER
Inst ID : E4.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\e48081A-f.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\e48081A-r.m
Sub List #1 : 8081a.sub
Sub List #2 : 8081a.sub
Col #1 Phase : CLPPest2
Col #2 Phase : CLPPest1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000 ✓	Correction factor
Vt	5000.000 ✓	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.100 ✓	Weigth of sample extracted (g)
M	0.000 ✓	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Tetrachloro-m-xylene	7.063	9.029	58275164	16423205	15	15		100.00(M)
Decachlorobiphenyl	24.744	28.595	29853275	9412166	9.5	9.2		100.00

N5 SZ 1/10/03

QC Flag Legend

M - Compound response manually integrated.

SZ 1/10/03

001278

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

AOC3CTCP8

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM *Case No.:* *SAS No.:* *SDG No.: A1905*

Matrix: (soil/water) SOIL Lab Sample ID: A1905-03D

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E4B7028F

% Moisture: 0 decanted: (Y/N) N Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/27/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/09/03

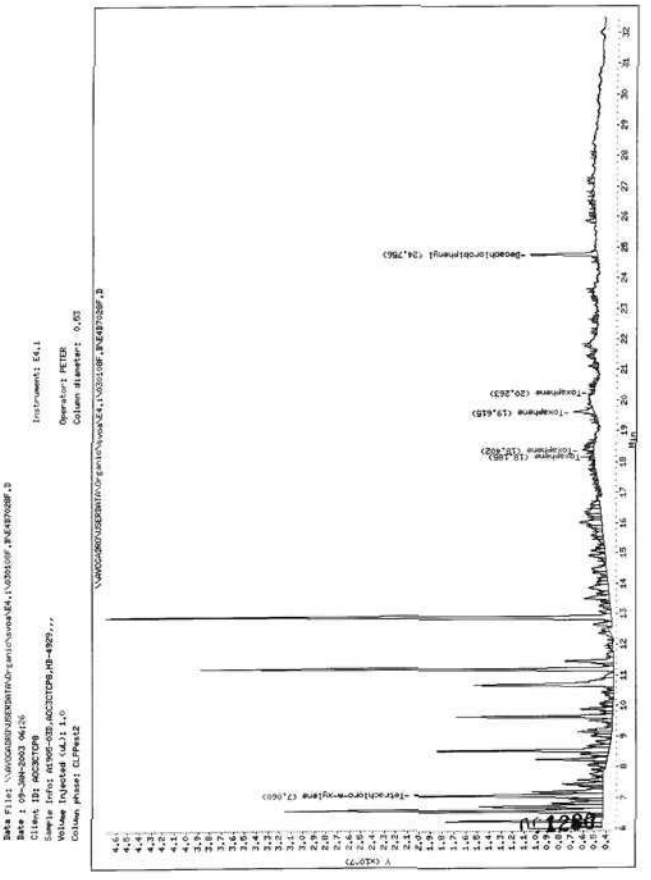
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

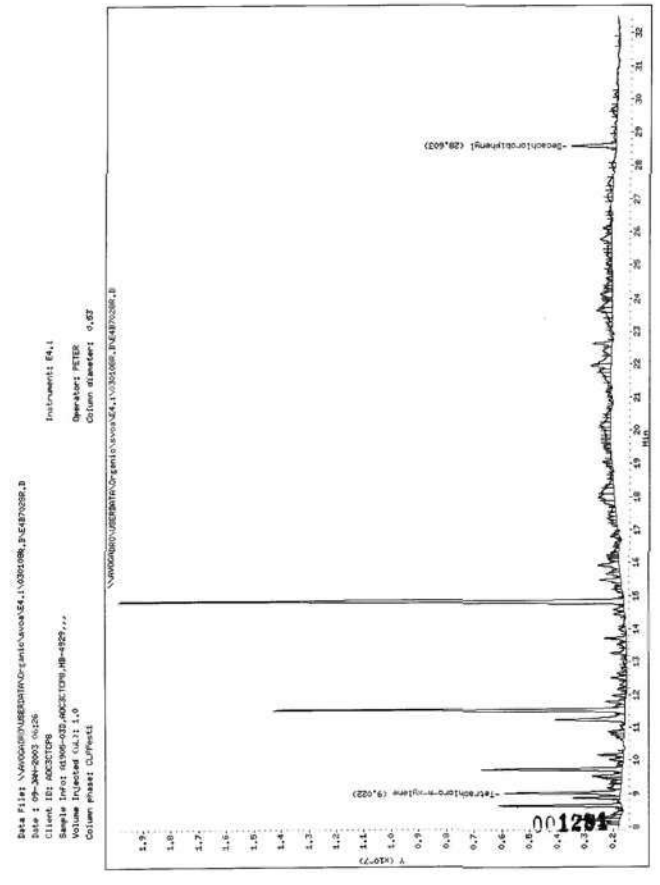
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-36-3	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U

FORM I PEST

001279



001280



001281

Data File: E4B7028F.D
Report Date: 10-Jan-2003 12:50

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\E4B7028F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\E4B7028R.D
Inj Date : 09-JAN-2003 06:26
Sample Info: A1905-03D,AOC3CTCP8,MB-4929,,,
Misc Info :
Cal Date : 09-JAN-2003 14:49
Operator : PETER
Inst ID : E4.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\e48081A-f.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\e48081A-r.m
Sub List #1 : 8081a.sub
Sub List #2 : 8081a.sub
Col #1 Phase : CLPPest2
Col #2 Phase : CLPPest1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.100	Weigth of sample extracted (g)
M	0.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Tetrachloro-m-xylene	7.060	9.022	72721856	14871333	18	13		100.00
Decachlorobiphenyl	24.756	28.603	24370868	7586287	6.9	7.4		100.00

sz 1/10/03

001282

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC3SSTB4902

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-04C

Sample wt/vol: 30.4 (g/mL) G Lab File ID: E4B7029F

% Moisture: 9 decanted: (Y/N) N Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/27/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/09/03

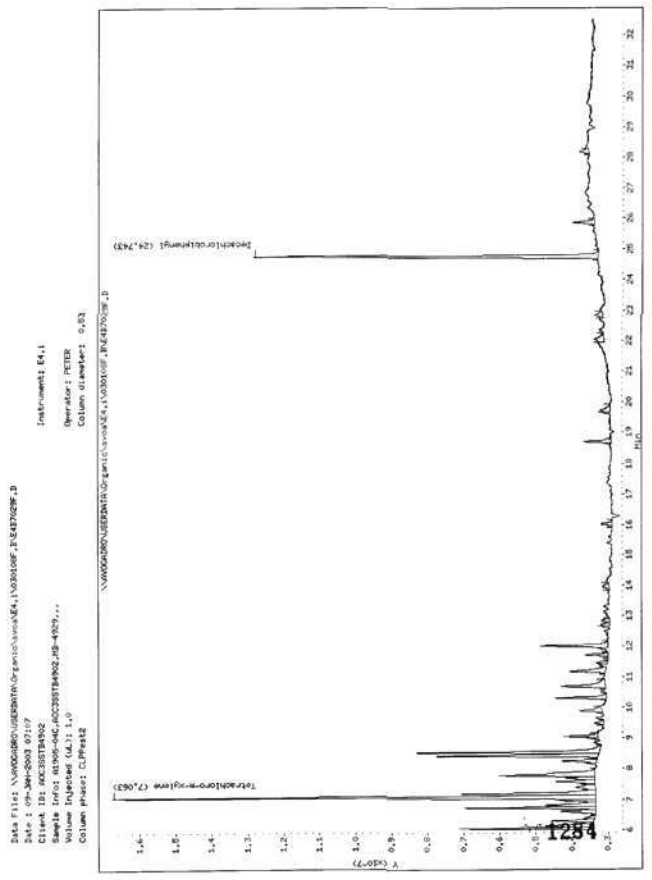
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

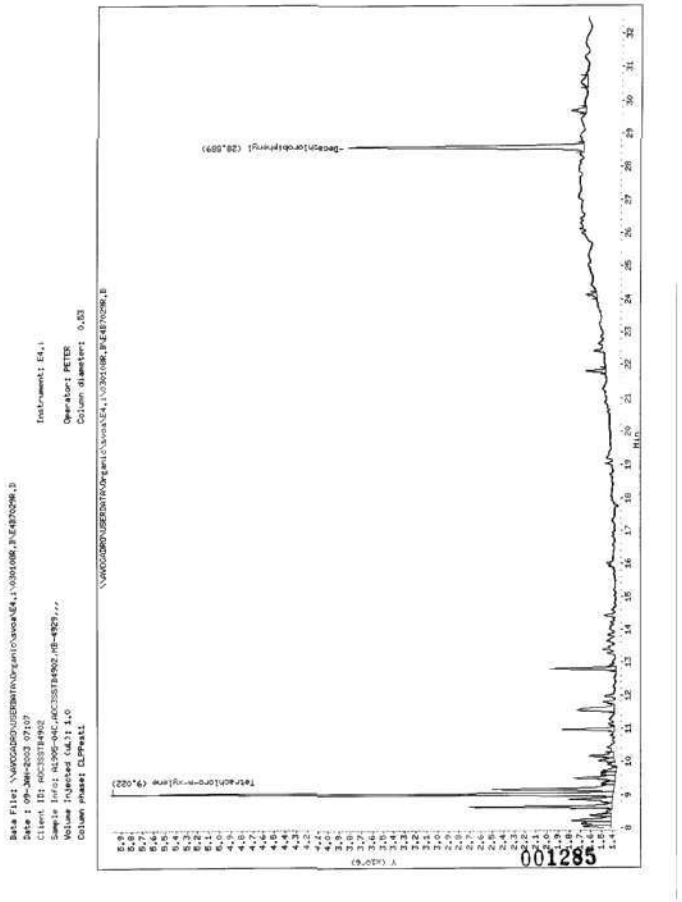
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	3.6	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.6	U
7421-36-3	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U

FORM I PEST

001283



1284



001285

Data File: E4B7029F.D
Report Date: 10-Jan-2003 12:58

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\E4B7029F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\E4B7029R.D
Inj Date : 09-JAN-2003 07:07
Sample Info: A1905-04C,AOC3SSTB4902,MB-4929,,,
Misc Info :
Cal Date : 09-JAN-2003 14:49
Operator : PETER
Inst ID : E4.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\e48081A-f.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\e48081A-r.m
Sub List #1 : 8081a.sub
Sub List #2 : 8081a.sub
Col #1 Phase : CLPPest2
Col #2 Phase : CLPPest1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000 ✓	Correction factor
Vt	5000.000 ✓	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.400 ✓	Weigth of sample extracted (g)
M	9.000 ✓	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Tetrachloro-m-xylene	7.063	9.022	65297586	15363922	13	15		100.00
Decachlorobiphenyl	24.743	28.589	37880995	10570301	12	11		100.00

SZ 1/10/03

001286

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC3SSTB5312

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-05C

Sample wt/vol: 30.6 (g/mL) G Lab File ID: E4B7030F

% Moisture: 7 decanted: (Y/N) N Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/27/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/09/03

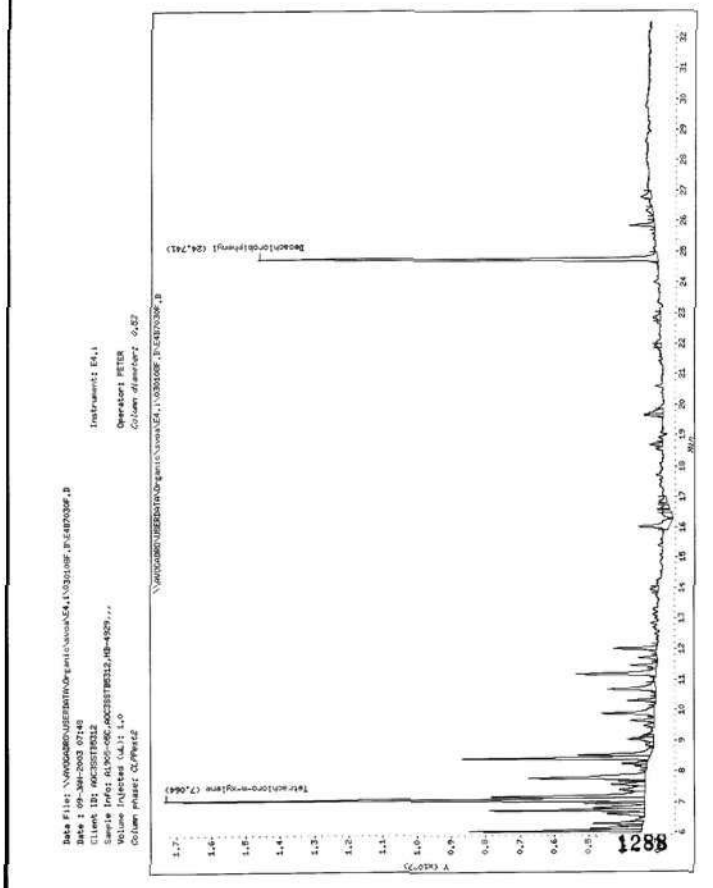
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

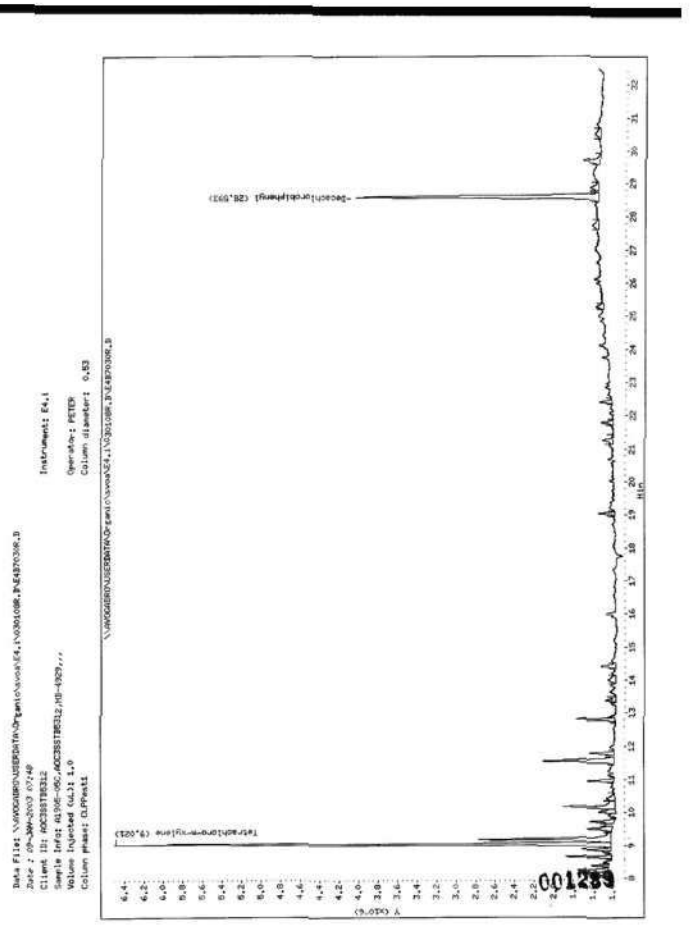
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.5	U
72-55-9	4,4'-DDE	3.5	U
72-20-8	Endrin	3.5	U
33213-65-9	Endosulfan II	3.5	U
72-54-8	4,4'-DDD	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4,4'-DDT	3.5	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.5	U
7421-36-3	Endrin aldehyde	3.5	U
5103-71-9	*alpha-Chlordane*	*1.8*	*U*
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U

FORM I PEST

001287



001288



001289

Data File: E4B7030F.D
Report Date: 10-Jan-2003 12:58

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\E4B7030F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\E4B7030R.D
Inj Date : 09-JAN-2003 07:48
Sample Info: A1905-05C,AOC3SSTB5312,MB-4929,,,
Misc Info :
Cal Date : 09-JAN-2003 14:49
Operator : PETER
Inst ID : E4.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\e48081A-f.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\e48081A-r.m
Sub List #1 : 8081a.sub
Sub List #2 : 8081a.sub
Col #1 Phase : CLPPest2
Col #2 Phase : CLPPest1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	*1.000*	*Dilution Factor*
Uf	2.000✓	Correction factor
Vt	5000.000✓	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.600✓	Weigth of sample extracted (g)
M	7.000✓	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Tetrachloro-m-Xylene	7.064	9.021	48489203	16807628	13	16		100.00
Decachlorobiphenyl	24.741	28.593	47493699	12394334	14	13		100.00

S2 1/10/03

001290

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC3SSTB5402

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-06C

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E4B7031F

% Moisture: 9 decanted: (Y/N) N Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/27/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/09/03

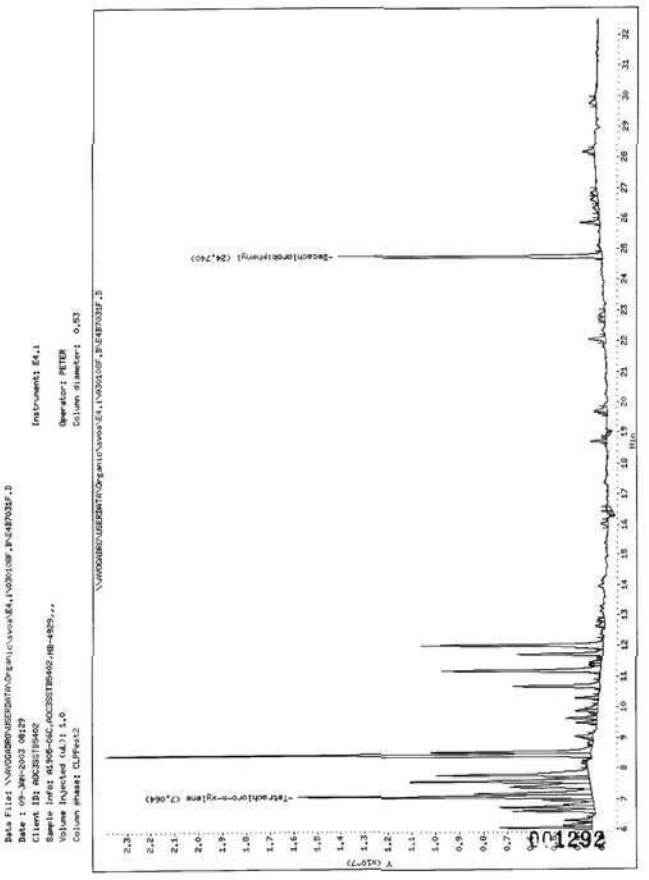
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

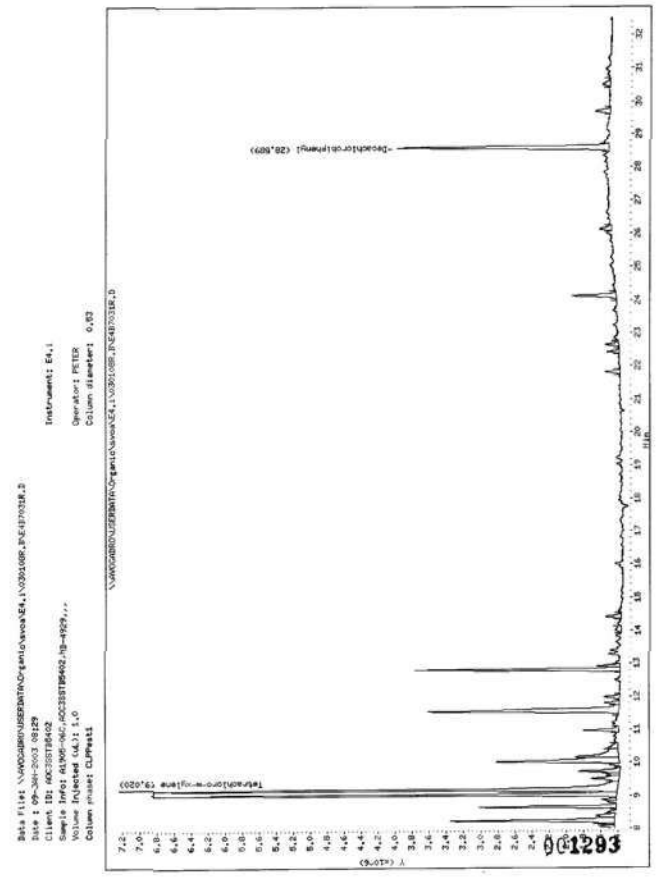
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8	U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	3.6	U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	3.6	U
72-43-5	Methoxychlor	18	U
53494-70-5	Endrin ketone	3.6	U
7421-36-3	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U

FORM I PEST

001291



001292



001293

Data File: E4B7031F.D
Report Date: 10-Jan-2003 12:58

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\E4B7031F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\E4B7031R.D
Inj Date : 09-JAN-2003 08:29
Sample Info: A1905-06C,AOC3SSTB5402,MB-4929,,,
Misc Info :
Cal Date : 09-JAN-2003 14:49
Operator : PETER
Inst ID : E4.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\e48081A-f.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\e48081A-r.m
Sub List #1 : 8081a.sub
Sub List #2 : 8081a.sub
Col #1 Phase : CLPPest2
Col #2 Phase : CLPPest1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.300	Weigth of sample extracted (g)
M	9.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Tetrachloro-m-xylene	7.064	9.020	42696094	18144375	13	18		100.00
Decachlorobiphenyl	24.740	28.889	44841425	12240907	14	13		100.00

1/10/03

001294

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E4 Calibration Date(s): 01/08/03 01/09/03

Column: CLPPEST2 ID: 0.53 (mm) Calibration Time(s): 1651 0019

LAB FILE ID: RF0.01: E4B7013F RF0.02: E4B7014F RF0.04: E4B7019F
RF0.08: E4B7016F RF0.16: E4B7017F

COMPOUND	RF0.01	RF0.02	RF0.04	RF0.08	RF0.16
alpha-BHC	2.12e+009	2.09e+009	2.09e+009	2.06e+009	2.06e+009
beta-BHC	888838800	880830200	825633750	815539475	762186863
delta-BHC	1.82e+009	1.87e+009	1.82e+009	1.92e+009	1.87e+009
gamma-BHC (Lindane)	536359800	512443400	519252400	514838425	519814925
Heptachlor	2.01e+009	1.93e+009	1.87e+009	1.79e+009	1.75e+009
Aldrin	1.95e+009	1.88e+009	1.78e+009	1.79e+009	1.7e+009
Heptachlor epoxide	1.89e+009	1.79e+009	1.69e+009	1.69e+009	1.58e+009
Endosulfan I	1.62e+009	1.64e+009	1.57e+009	1.53e+009	1.46e+009
Dieldrin	1.79e+009	1.77e+009	1.68e+009	1.64e+009	1.62e+009
4,4'-DDE	1.61e+009	1.58e+009	1.54e+009	1.57e+009	1.51e+009
Endrin	1.37e+009	1.24e+009	1.24e+009	1.17e+009	1.16e+009
Endosulfan II	1.52e+009	1.44e+009	1.38e+009	1.4e+009	1.35e+009
4,4'-DDD	1.27e+009	1.32e+009	1.33e+009	1.28e+009	1.26e+009
Endosulfan sulfate	1.4e+009	1.35e+009	1.27e+009	1.31e+009	1.25e+009
4,4'-DDT	1.27e+009	1.2e+009	1.29e+009	1.25e+009	1.25e+009
Methoxychlor	670110420	631666960	628572905	586934550	542281243
Endrin ketone	1.52e+009	1.47e+009	1.38e+009	1.44e+009	1.38e+009
Endrin aldehyde	1.19e+009	1.15e+009	1.03e+009	1.07e+009	1.01e+009
alpha-Chlordane	1.84e+009	1.73e+009	1.61e+009	1.62e+009	1.52e+009
gamma-Chlordane	1.93e+009	1.85e+009	1.74e+009	1.75e+009	1.65e+009
Toxaphene			6816732.4		
(2)			6235499.6		
(3)			11442742		
(4)			13856491		
Tetrachloro-m-xylene	1.44e+009	1.38e+009	1.33e+009	1.26e+009	1.2e+009
Decachlorobiphenyl	1.24e+009	1.2e+009	1.2e+009	1.13e+009	1.09e+009

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E4 Calibration Date(s): 01/08/03 01/09/03

Column: CLPPEST2 ID: 0.53 (mm) Calibration Time(s): 1651 0019

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
alpha-BHC	AVRG	2082685158	1.2
beta-BHC	AVRG	834605818	6.2
delta-BHC	AVRG	1860453900	2.2
gamma-BHC (Lindane)	AVRG	520541790	1.8
Heptachlor	AVRG	1872896768	5.5
Aldrin	AVRG	1818464200	5.4
Heptachlor epoxide	AVRG	1726268610	6.8
Endosulfan I	AVRG	1561350160	4.7
Dieldrin	AVRG	1699667598	4.4
4,4'-DDE	AVRG	1559678485	2.5
Endrin	AVRG	1236403360	6.8
Endosulfan II	AVRG	1415687945	4.6
4,4'-DDD	AVRG	1294397284	2.4
Endosulfan sulfate	AVRG	1317908728	4.7
4,4'-DDT	AVRG	1252573583	2.7
Methoxychlor	AVRG	611913216	8.0
Endrin ketone	AVRG	1441426755	4.2
Endrin aldehyde	AVRG	1092745916	7.2
alpha-Chlordane	AVRG	1662641095	7.4
gamma-Chlordane	AVRG	1783566150	5.8
Toxaphene	AVRG	6816732.40	0.0
(2)	AVRG	6235499.60	0.0
(3)	AVRG	11442742.4	0.0
(4)	AVRG	13856490.8	0.0
Tetrachloro-m-xylene	AVRG	1323655550	7.4
Decachlorobiphenyl	AVRG	1171185765	5.0

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E4 Calibration Date(s): 01/08/03 01/09/03

Column: CLPPEST1 ID: 0.53 (mm) Calibration Time(s): 1651 0019

LAB FILE ID: RF0.01: E4B7013R RF0.02: E4B7014R RF0.04: E4B7019R
RF0.08: E4B7016R RF0.16: E4B7017R

COMPOUND	RF0.01	RF0.02	RF0.04	RF0.08	RF0.16
alpha-BHC	471153600	484652200	516985600	54341060	586830775
beta-BHC	261976800	256040400	242955900	246548575	233413475
delta-BHC	416287600	423893200	430419750	486069000	511895975
gamma-BHC (Lindane)	464213000	472351800	496008150	512217625	543608488
Heptachlor	504854600	490387900	496178600	492317950	510281700
Aldrin	442646600	437791800	434655300	467832975	475627650
Heptachlor epoxide	465508600	450651600	431716000	455733725	450844775
Endosulfan I	409827200	414544600	400754150	401414825	402101600
Dieldrin	398851000	404524500	420015775	430986238	451126013
4,4'-DDE	365286500	368248700	369671600	414328163	425960369
Endrin	326024700	305369300	316366450	316686450	328483769
Endosulfan II	382035800	358005650	352586500	374585088	380409481
4,4'-DDD	299042200	298618900	314112025	322043388	334948813
Endosulfan sulfate	354301500	340837500	320760900	343196913	340759431
4,4'-DDT	282854600	291074300	311860250	319356563	335237169
Methoxychlor	177218480	169580480	174162545	169253548	164779085
Endrin ketone	361321900	359916400	344150650	371123963	367482100
Endrin aldehyde	288149500	285465750	262441025	279844900	276059325
alpha-Chlordane	468498000	448217100	425812250	441366675	433495250
gamma-Chlordane	545682000	482141800	457509250	474119175	467843838
Toxaphene			2716747.2		
(2)			2454868.8		
(3)			3166606.0		
(4)			1816103.6		
Tetrachloro-m-xylene	380668600	377468500	373907350	367611850	366048475
Decachlorobiphenyl	394787900	366420850	329057950	310406250	291923875

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E4 Calibration Date(s): 01/08/03 01/09/03

Column: CLPPEST1 ID: 0.53 (mm) Calibration Time(s): 1651 0019

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
alpha-BHC	AVRG	520606555	8.9
beta-BHC	AVRG	248187030	4.5
delta-BHC	AVRG	453713105	9.4
gamma-BHC (Lindane)	AVRG	497679813	6.4
Heptachlor	AVRG	498804150	1.7
Aldrin	AVRG	451710865	4.1
Heptachlor epoxide	AVRG	450890940	2.7
Endosulfan I	AVRG	405728475	1.5
Dieldrin	AVRG	421100705	5.0
4,4'-DDE	AVRG	388699066	7.5
Endrin	AVRG	318586134	2.9
Endosulfan II	AVRG	369524504	3.6
4,4'-DDD	AVRG	313753065	4.9
Endosulfan sulfate	AVRG	339971249	3.6
4,4'-DDT	AVRG	308076576	6.9
Methoxychlor	AVRG	170998828	2.8
Endrin ketone	AVRG	360799003	2.9
Endrin aldehyde	AVRG	278392100	3.6
alpha-Chlordane	AVRG	443477855	3.7
gamma-Chlordane	AVRG	485459213	7.2
Toxaphene	AVRG	2716747.20	0.0
(2)	AVRG	2454868.80	0.0
(3)	AVRG	3166606.00	0.0
(4)	AVRG	1816103.60	0.0
Tetrachloro-m-xylene	AVRG	373140955	1.7
Decachlorobiphenyl	AVRG	338519365	12.4

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E4 Calibration Date(s): 01/08/03 01/09/03

Column: CLPPEST2 ID: 0.53 (mm) Calibration Time(s): 1651 0019

LAB FILE ID: RT1: E4B7013F RT2: E4B7014F RT3: E4B7019F
RT4: E4B7016F RT5: E4B7017F

COMPOUND	RT1	RT2	RT3	RT4	RT5
alpha-BHC	9.040	9.030	9.030	9.020	9.020
beta-BHC	10.520	10.520	10.520	10.520	10.520
delta-BHC	*11.050*	*11.050*	*11.050*	*11.050*	*11.050*
gamma-BHC (Lindane)	10.140	10.130	10.130	10.120	10.130
Heptachlor	11.730	11.710	11.710	11.710	11.710
Aldrin	12.650	12.650	12.650	12.650	12.650
Heptachlor epoxide	14.690	14.680	14.680	14.680	14.680
Endosulfan I	15.880	15.870	15.870	15.860	15.860
Dieldrin	16.650	16.630	16.630	16.630	16.630
4,4'-DDE	16.020	16.020	16.020	16.020	16.020
Endrin	17.310	17.300	17.300	17.300	17.300
Endosulfan II	18.000	18.010	18.000	18.000	18.000
4,4'-DDD	17.870	17.860	17.860	17.860	17.850
Endosulfan sulfate	20.640	20.640	20.640	20.640	20.640
4,4'-DDT	18.710	18.700	18.700	18.700	18.700
Methoxychlor	20.390	20.380	20.380	20.370	20.370
Endrin ketone	21.400	21.410	21.400	21.400	21.400
Endrin aldehyde	19.330	19.330	19.330	19.330	19.330
alpha-Chlordane	15.520	15.520	15.520	15.520	15.520
gamma-Chlordane	15.090	15.090	15.090	15.090	15.090
Toxaphene			18.210		
(2)			18.360		
(3)			19.660		
(4)			20.280		
Tetrachloro-m-xylene	7.080	7.070	7.070	7.070	7.070
Decachlorobiphenyl	24.750	24.750	24.750	24.740	24.740

FORM VI PEST

001299

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E4 Calibration Date(s): 01/08/03 01/09/03

Column: CLPPEST2 ID: 0.53 (mm) Calibration Time(s): 1651 0019

COMPOUND	MEAN RT	RT WINDOW FROM	RT WINDOW TO
alpha-BHC	9.028	8.974	9.074
beta-BHC	10.520	10.465	10.565
delta-BHC	11.050	11.000	11.100
gamma-BHC (Lindane)	*10.130*	*10.075*	*10.175*
Heptachlor	11.714	11.660	11.760
Aldrin	12.650	12.598	12.698
Heptachlor epoxide	14.682	14.614	14.754
Endosulfan I	15.868	15.795	15.935
Dieldrin	16.634	16.562	16.702
4,4'-DDE	16.020	15.948	16.088
Endrin	17.302	17.227	17.367
Endosulfan II	18.002	17.931	18.071
4,4'-DDD	17.860	17.785	17.925
Endosulfan sulfate	20.640	20.567	20.707
4,4'-DDT	18.702	18.627	18.767
Methoxychlor	20.378	20.305	20.445
Endrin ketone	21.402	21.333	21.473
Endrin aldehyde	19.330	19.255	19.395
alpha-Chlordane	15.520	15.447	15.587
gamma-Chlordane	15.090	15.018	15.158
Toxaphene	18.210	18.135	18.275
(2)	18.360	18.290	18.430
(3)	19.660	19.589	19.729
(4)	20.280	20.210	20.350
Tetrachloro-m-xylene	7.072	7.018	7.118
Decachlorobiphenyl	24.746	24.641	24.841

FORM VI PEST

001300

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E4 Calibration Date(s): 01/08/03 01/09/03

Column: CLPPEST1 ID: 0.53 (mm) Calibration Time(s): 1651 0019

LAB FILE ID: RT1: E4B7013R RT2: E4B7014R RT3: E4B7019R
RT4: E4B7016R RT5: E4B7017R

COMPOUND	RT1	RT2	RT3	RT4	RT5
alpha-BHC	11.430	11.430	11.430	11.430	11.430
beta-BHC	13.150	13.150	13.140	13.140	13.140
delta-BHC	14.130	14.130	14.130	14.130	14.130
gamma-BHC (Lindane)	12.740	12.740	12.740	12.740	12.740
Heptachlor	14.220	14.220	14.220	14.220	14.220
Aldrin	15.260	15.270	15.260	15.270	15.260
Heptachlor epoxide	17.230	17.230	17.230	17.240	17.230
Endosulfan I	18.450	18.450	18.450	18.450	18.450
Dieldrin	19.340	19.330	19.330	19.330	19.330
4,4'-DDE	19.060	19.060	19.060	19.060	19.060
Endrin	20.260	20.260	20.260	20.260	20.260
Endosulfan II	20.950	20.950	20.950	20.950	20.950
4,4'-DDD	20.870	20.870	20.870	20.870	20.870
Endosulfan sulfate	22.900	22.900	22.900	22.900	22.900
4,4'-DDT	21.820	21.820	21.820	21.820	21.820
Methoxychlor	24.050	24.050	24.050	24.050	24.050
Endrin ketone	24.470	24.470	24.470	24.470	24.470
Endrin aldehyde	22.040	22.040	22.040	22.040	22.040
alpha-Chlordane	18.340	18.340	18.340	18.340	18.340
gamma-Chlordane	17.860	17.860	17.860	17.860	17.850
Toxaphene			21.230		
(2)			22.070		
(3)			23.590		
(4)			24.790		
Tetrachloro-m-xylene	9.020	9.030	9.030	9.030	9.020
Decachlorobiphenyl	28.610	28.600	28.600	28.600	28.600

FORM VI PEST

001301

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E4 Calibration Date(s): 01/08/03 01/09/03

Column: CLPPEST1 ID: 0.53 (mm) Calibration Time(s): 1651 0019

COMPOUND	MEAN RT	RT WINDOW FROM	RT WINDOW TO
alpha-BHC	11.430	11.379	11.479
beta-BHC	13.144	13.093	13.193
delta-BHC	14.130	14.083	14.183
gamma-BHC (Lindane)	12.740	12.687	12.787
Heptachlor	14.220	14.170	14.270
Aldrin	15.264	15.215	15.315
Heptachlor epoxide	17.232	17.164	17.304
Endosulfan I	18.450	18.378	18.518
Dieldrin	19.332	19.258	19.398
4,4'-DDE	19.060	18.985	19.125
Endrin	20.260	20.185	20.325
Endosulfan II	20.950	20.882	21.022
4,4'-DDD	20.870	20.798	20.938
Endosulfan sulfate	22.900	22.826	22.966
4,4'-DDT	21.820	21.745	21.885
Methoxychlor	24.050	23.976	24.116
Endrin ketone	24.470	24.399	24.539
Endrin aldehyde	22.040	21.968	22.108
alpha-Chlordane	18.340	18.267	18.407
gamma-Chlordane	17.858	17.785	17.925
Toxaphene	21.230	21.156	21.296
(2)	22.070	21.997	22.137
(3)	23.590	23.519	23.659
(4)	24.790	24.720	24.860
Tetrachloro-m-xylene	9.026	8.975	9.075
Decachlorobiphenyl	28.602	28.496	28.696

FORM VI PEST

001302

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: B4 Calibration Date: 01/09/03 Time: 1043

Lab File ID: B4B7035F Init. Calib. Date(s): 01/08/03 01/08/03

Init. Calib. Times: 1651 1934

GC Column: CLPPEST2 ID: 0.53 (mm)

COMPOUND	RRF	RRF 0.04	MIN RRF	%D	MAX %D
alpha-BHC	2.08e+009	2.12e+009	0.01	1.9	15.0
gamma-BHC (Lindane)	520541750	482842550	0.01	7.2	15.0
Heptachlor	1.87e+009	1.85e+009	0.01	1.1	15.0
Endosulfan I	1.56e+009	1.65e+009	0.01	5.8	15.0
Dieldrin	1.7e+009	1.76e+009	0.01	3.5	15.0
Endrin	1.24e+009	1.1e+009	0.01	11.3	15.0
4,4'-DDD	1.29e+009	1.33e+009	0.01	3.1	15.0
4,4'-DDT	1.25e+009	1.28e+009	0.01	2.4	15.0
Methoxychlor	611913216	612745685	0.01	0.1	15.0
Tetrachloro-m-xylene	1.32e+009	1.32e+009	0.01	0.0	15.0
Decachlorobiphenyl	1.17e+009	1.2e+009	0.01	2.6	15.0

FORM VII PEST

001303

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: B4 Calibration Date: 01/09/03 Time: 1124

Lab File ID: B4B7036F Init. Calib. Date(s): 01/08/03 01/08/03

Init. Calib. Times: 2014 2258

GC Column: CLPPEST2 ID: 0.53 (mm)

COMPOUND	RRF	RRF 0.04	MIN RRF	%D	MAX %D
beta-BHC	834605818	825794200	0.01	0.9	15.0
delta-BHC	1.86e+009	1.85e+009	0.01	0.5	15.0
Aldrin	1.82e+009	1.81e+009	0.01	0.5	15.0
Heptachlor epoxide	1.73e+009	1.72e+009	0.01	0.6	15.0
4,4'-DDE	1.56e+009	1.53e+009	0.01	1.9	15.0
Endosulfan II	1.42e+009	1.41e+009	0.01	0.7	15.0
Endosulfan sulfate	1.32e+009	1.32e+009	0.01	0.0	15.0
Endrin ketone	1.44e+009	1.46e+009	0.01	1.4	15.0
Endrin aldehyde	1.09e+009	1.07e+009	0.01	1.8	15.0
alpha-Chlordane	1.66e+009	1.68e+009	0.01	1.2	15.0
gamma-Chlordane	1.78e+009	1.77e+009	0.01	0.6	15.0
Tetrachloro-m-xylene	1.32e+009	1.32e+009	0.01	0.0	15.0
Decachlorobiphenyl	1.17e+009	1.17e+009	0.01	0.0	15.0

FORM VII PEST

001304

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: B4 Calibration Date: 01/09/03 Time: 1043

Lab File ID: B4B7035R Init. Calib. Date(s): 01/08/03 01/08/03

Init. Calib. Times: 1651 1934

GC Column: CLPPEST1 ID: 0.53 (mm)

COMPOUND	RRF	RRF 0.04	MIN RRF	%D	MAX %D
alpha-BHC	520606555	523421700	0.01	0.5	15.0
gamma-BHC (Lindane)	497679813	503888150	0.01	1.2	15.0
Heptachlor	498804150	493178200	0.01	1.1	15.0
Endosulfan I	405728475	412536900	0.01	1.7	15.0
Dieldrin	421100705	424188125	0.01	0.7	15.0
Endrin	318586134	286116350	0.01	10.2	15.0
4,4'-DDD	313753065	310826700	0.01	0.9	15.0
4,4'-DDT	308076576	315923250	0.01	2.5	15.0
Methoxychlor	170998828	173215900	0.01	1.3	15.0
Tetrachloro-m-xylene	373140955	378812600	0.01	1.5	15.0
Decachlorobiphenyl	338519365	335484125	0.01	0.9	15.0

FORM VII PEST

001305

FORM 7
PESTICIDE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: B4 Calibration Date: 01/09/03 Time: 1124

Lab File ID: B4B7036R Init. Calib. Date(s): 01/08/03 01/08/03

Init. Calib. Times: 2014 2258

GC Column: CLPPEST1 ID: 0.53 (mm)

COMPOUND	RRF	RRF 0.04	MIN RRF	%D	MAX %D
beta-BHC	248187030	247171150	0.01	0.4	15.0
delta-BHC	453713105	444079650	0.01	2.1	15.0
Aldrin	451710865	448538050	0.01	1.6	15.0
Heptachlor epoxide	450890940	452352900	0.01	0.3	15.0
4,4'-DDE	388699066	379674575	0.01	2.3	15.0
Endosulfan II	369524504	365189450	0.01	1.2	15.0
Endosulfan sulfate	339971249	333698075	0.01	1.8	15.0
Endrin ketone	360799003	363749200	0.01	0.8	15.0
Endrin aldehyde	278392100	268419375	0.01	3.6	15.0
alpha-Chlordane	443477855	441910150	0.01	0.4	15.0
gamma-Chlordane	485459213	461417700	0.01	5.0	15.0
Tetrachloro-m-xylene	373140955	374891250	0.01	0.5	15.0
Decachlorobiphenyl	338519365	336391750	0.01	0.6	15.0

FORM VII PEST

1306

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

GC Column: CLPPEST2 ID: 0.53 (mm) Init. Calib. Date(s): 01/08/03 01/09/03

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab Sample ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): PEMB1 Date Analyzed :01/08/03

Lab Sample ID (PEM): PEMB1 Time Analyzed :1551

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	9.04	8.97	9.07	0.0092	0.010	-8.0
beta-BHC	10.53	10.47	10.57	0.010	0.010	0.0
gamma-BHC (Lindane)	10.14	10.08	10.18	0.0098	0.010	-2.0
Endrin	17.31	17.23	17.37	0.052	0.050	4.0
4,4'-DDT	18.71	18.63	18.77	0.096	0.10	-4.0
Methoxychlor	20.38	20.30	20.44	0.25	0.25	0.0
Tetrachloro-m-xylene	7.08	7.02	7.12	0.018	0.020	-10.0
Decachlorobiphenyl	24.75	24.64	24.84	0.020	0.020	0.0

4,4'-DDT % breakdown (1): 0.00 Endrin % breakdown (1): 14.21

Combined % breakdown (1): 14.21

7D
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

GC Column: CLPPEST1 ID: 0.53 (mm) Init. Calib. Date(s): 01/08/03 01/09/03

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab Sample ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): PEMB1 Date Analyzed :01/08/03

Lab Sample ID (PEM): PEMB1 Time Analyzed :1551

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT (ng)	NOM AMOUNT (ng)	%D
alpha-BHC	11.44	11.38	11.48	0.0087	0.010	-13.0
beta-BHC	13.15	13.09	13.19	0.010	0.010	0.0
gamma-BHC (Lindane)	12.75	12.69	12.79	0.0094	0.010	-6.0
Endrin	20.26	20.19	20.33	0.053	0.050	6.0
4,4'-DDT	21.82	21.75	21.89	0.092	0.10	-8.0
Methoxychlor	24.05	23.98	24.12	0.24	0.25	-4.0
Tetrachloro-m-xylene	9.03	8.97	9.07	0.018	0.020	-10.0
Decachlorobiphenyl	28.60	28.50	28.70	0.021	0.020	5.0

4,4'-DDT % breakdown (1): 0.00 Endrin % breakdown (1): 12.77

Combined % breakdown (1): 12.77

FORM 8
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

GC Column: CLPPEST2 ID: 0.53 (mm) Init. Calib. Date(s): 01/08/03 01/09/03

Instrument ID: B4

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION TCX: 7.07 DCB: 24.74

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	PEMB1	PEMB1	01/08/03	1551	7.08	24.75
02	INDABL1	INDABL1	01/08/03	1651	7.08	24.75
03	INDABL2	INDABL2	01/08/03	1731	7.07	24.75
04	INDABL3	INDABL3	01/08/03	1812	7.07	24.75
05	INDABL4	INDABL4	01/08/03	1853	7.07	24.74
06	INDABL5	INDABL5	01/08/03	1934	7.07	24.74
07	INDBBL1	INDBBL1	01/08/03	2014	7.07	24.75
08	INDBBL2	INDBBL2	01/08/03	2055	7.07	24.75
09	INDBBL3	INDBBL3	01/08/03	2136	7.07	24.75
10	INDBBL4	INDBBL4	01/08/03	2217	7.07	24.75
11	INDBBL5	INDBBL5	01/08/03	2258	7.07	24.75
12	TOXBL3	TOXBL3	01/08/03	2339	7.07	24.74
13	PBLK4A	MB-4929	01/09/03	0302	7.07	24.75
14	P4ALCS	LCS-4929	01/09/03	0343	7.07	24.74
15	P4ALCSD	LCSD-4929	01/09/03	0424	7.07	24.74
16	AOC3CTCP6	A1905-01D	01/09/03	0505	7.07	24.74
17	AOC3CTCP7	A1905-02D	01/09/03	0546	7.06	24.74
18	AOC3CTCP8	A1905-03D	01/09/03	0626	7.06	24.76
19	AOC3SSTB4902	A1905-04C	01/09/03	0707	7.06	24.74
20	*AOC3SSTB5312*	*A1905-05C*	*01/09/03*	*0748*	*7.06*	*24.74*
21	AOC3SSTB5402	A1905-06C	01/09/03	0829	7.06	24.74
22	INDAB2	INDAB2	01/09/03	1043	7.07	24.75
23	INDBB2	INDBB2	01/09/03	1124	7.07	24.75
24	TOXB2	TOXB2	01/09/03	1204	7.07	24.75
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

GC Column: CLPPEST1 ID: 0.53 (mm) Init. Calib. Date(s): 01/08/03 01/09/03

Instrument ID: B4

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION TCX: 9.02 DCB: 28.60

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	PEMB1	PEMB1	01/08/03	1551	9.03	28.60
02	INDABL1	INDABL1	01/08/03	1651	9.02	28.61
03	INDABL2	INDABL2	01/08/03	1731	9.03	28.60
04	INDABL3	INDABL3	01/08/03	1812	9.03	28.60
05	INDABL4	INDABL4	01/08/03	1853	9.03	28.60
06	INDABL5	INDABL5	01/08/03	1934	9.02	28.60
07	INDBBL1	INDBBL1	01/08/03	2014	9.02	28.60
08	INDBBL2	INDBBL2	01/08/03	2055	9.02	28.60
09	INDBBL3	INDBBL3	01/08/03	2136	9.02	28.60
10	INDBBL4	INDBBL4	01/08/03	2217	9.02	28.60
11	INDBBL5	INDBBL5	01/08/03	2258	9.02	28.60
12	TOXBL3	TOXBL3	01/08/03	2339	9.02	28.60
13	PBLK4A	MB-4929	01/09/03	0302	9.02	28.60
14	P4ALCS	LCS-4929	01/09/03	0343	9.02	28.59
15	P4ALCSD	LCSD-4929	01/09/03	0424	9.02	28.59
16	AOC3CTCP6	A1905-01D	01/09/03	0505	9.02	28.60
17	AOC3CTCP7	A1905-02D	01/09/03	0546	9.02	28.59
18	AOC3CTCP8	A1905-03D	01/09/03	0626	9.02	28.60
19	AOC3SSTB4902	A1905-04C	01/09/03	0707	9.02	28.59
20	AOC3SSTB5312	A1905-05C	01/09/03	0748	9.02	28.59
21	AOC3SSTB5402	A1905-06C	01/09/03	0829	9.02	28.59
22	INDAB2	INDAB2	01/09/03	1043	9.02	28.60
23	INDBB2	INDBB2	01/09/03	1124	9.02	28.60
24	TOXB2	TOXB2	01/09/03	1204	9.03	28.60
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.: AOC3CTCP6

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Lab Sample ID: A1905-01D Date(s) Analyzed: 01/09/03 01/09/03
Instrument ID (1): E4 Instrument ID (2): E4
GC Column(1): CLPPEST2 ID: 0.53(mm) GC Column(2): CLPPEST1 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Aldrin	1	12.67	12.60	12.70	1.7	
	2	15.25	15.21	15.31	6.2	113.9
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

PEST

001311

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.: P4ALCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Lab Sample ID: LCS-4929 Date(s) Analyzed: 01/09/03 01/09/03
Instrument ID (1): E4 Instrument ID (2): E4
GC Column(1): CLPPEST2 ID: 0.53(mm) GC Column(2): CLPPEST1 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
alpha-BHC	1	9.02	8.97	9.07	7.9	
	2	11.43	11.38	11.48	7.2	9.3
beta-BHC	1	10.52	10.47	10.57	7.4	
	2	13.14	13.09	13.19	7.7	4.0
delta-BHC	1	11.05	11.00	11.10	5.1	
	2	14.13	14.08	14.18	5.1	0.0
gamma-BHC (Lindane)	1	10.12	10.08	10.18	7.5	
	2	12.74	12.69	12.79	7.8	3.9
Heptachlor	1	11.71	11.66	11.76	7.9	
	2	14.22	14.17	14.27	8.0	1.2
Aldrin	1	12.65	12.60	12.70	7.6	
	2	15.26	15.21	15.31	7.8	2.6
Heptachlor epoxide	1	14.68	14.61	14.75	7.6	
	2	17.23	17.16	17.30	8.0	5.1
Endosulfan I	1	15.86	15.79	15.93	8.1	
	2	18.44	18.38	18.52	7.7	5.1

PEST

001312

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.: P4ALCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Lab Sample ID: LCS-4929 Date(s) Analyzed: 01/09/03 01/09/03
Instrument ID (1): E4 Instrument ID (2): E4
GC Column(1): CLPPEST2 ID: 0.53(mm) GC Column(2): CLPPEST1 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Dieldrin	1	16.63	16.56	16.70	15	
	2	19.33	19.26	19.40	16	6.4
4,4'-DDE	1	16.02	15.95	16.09	17	
	2	19.05	18.99	19.13	16	6.1
Endrin	1	17.30	17.23	17.37	11	
	2	20.25	20.19	20.33	10	9.5
Endosulfan II	1	18.00	17.93	18.07	18	
	2	20.95	20.88	21.02	17	5.7
4,4'-DDD	1	17.85	17.78	17.92	14	
	2	20.87	20.80	20.94	15	6.9
Endosulfan sulfate	1	20.64	20.57	20.71	16	
	2	22.89	22.83	22.97	15	6.4
4,4'-DDT	1	18.70	18.63	18.77	17	
	2	21.81	21.75	21.89	17	0.0
Methoxychlor	1	20.38	20.30	20.44	82	
	2	24.04	23.98	24.12	83	1.2

PEST

001313

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.: P4ALCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Lab Sample ID: LCS-4929 Date(s) Analyzed: 01/09/03 01/09/03
Instrument ID (1): E4 Instrument ID (2): E4
GC Column(1): CLPPEST2 ID: 0.53(mm) GC Column(2): CLPPEST1 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Endrin ketone	1	21.40	21.33	21.47	22	
	2	24.47	24.40	24.54	22	0.0
Endrin aldehyde	1	19.33	19.26	19.40	11	
	2	22.04	21.97	22.11	11	0.0
alpha-Chlordane	1	15.52	15.45	15.59	7.8	
	2	18.34	18.27	18.41	7.9	1.3
gamma-Chlordane	1	15.09	15.02	15.16	7.5	
	2	17.85	17.78	17.92	7.6	1.3
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

PEST

001314

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.

P4ALCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab Sample ID: LCSD-4929 Date(s) Analyzed: 01/09/03 01/09/03

Instrument ID (1): E4 Instrument ID (2): E4

GC Column(1): CLPPEST2 ID: 0.53(mm) GC Column(2): CLPPEST1 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
alpha-BHC	1	9.02	8.97	9.07	7.1	
	2	11.43	11.38	11.48	6.8	4.3
beta-BHC	1	10.51	10.47	10.57	7.5	
	2	13.14	13.09	13.19	7.9	5.2
delta-BHC	1	11.05	11.00	11.10	4.9	
	2	14.13	14.08	14.18	5.1	4.0
gamma-BHC (Lindane)	1	10.12	10.08	10.18	7.1	
	2	12.73	12.69	12.79	7.5	5.5
Heptachlor	1	11.71	11.66	11.76	7.7	
	2	14.22	14.17	14.27	7.7	0.0
Aldrin	1	12.65	12.60	12.70	7.2	
	2	15.26	15.21	15.31	7.4	2.7
Heptachlor epoxide	1	14.68	14.61	14.75	7.6	
	2	17.23	17.16	17.30	7.8	2.6
Endosulfan I	1	15.86	15.79	15.93	8.0	
	2	18.45	18.38	18.52	7.8	2.5

PEST

001315

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.

P4ALCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab Sample ID: LCSD-4929 Date(s) Analyzed: 01/09/03 01/09/03

Instrument ID (1): E4 Instrument ID (2): E4

GC Column(1): CLPPEST2 ID: 0.53(mm) GC Column(2): CLPPEST1 ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Dieldrin	1	16.63	16.56	16.70	16	
	2	19.33	19.26	19.40	16	0.0
4,4'-DDE	1	16.02	15.95	16.09	17	
	2	19.06	18.99	19.13	16	6.1
Endrin	1	17.30	17.23	17.37	18	
	2	20.25	20.19	20.33	18	0.0
Endosulfan II	1	18.00	17.93	18.07	18	
	2	20.95	20.88	21.02	17	5.7
4,4'-DDD	1	17.85	17.78	17.92	15	
	2	20.87	20.80	20.94	15	0.0
Endosulfan sulfate	1	20.64	20.57	20.71	16	
	2	22.89	22.83	22.97	16	0.0
4,4'-DDT	1	18.70	18.63	18.77	17	
	2	21.81	21.75	21.89	17	0.0
Methoxychlor	1	20.37	20.30	20.44	82	
	2	24.05	23.98	24.12	84	2.4

PEST

001316

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE NO.

P4ALCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab Sample ID: LCSD-4929 Date(s) Analyzed: 01/09/03 01/09/03

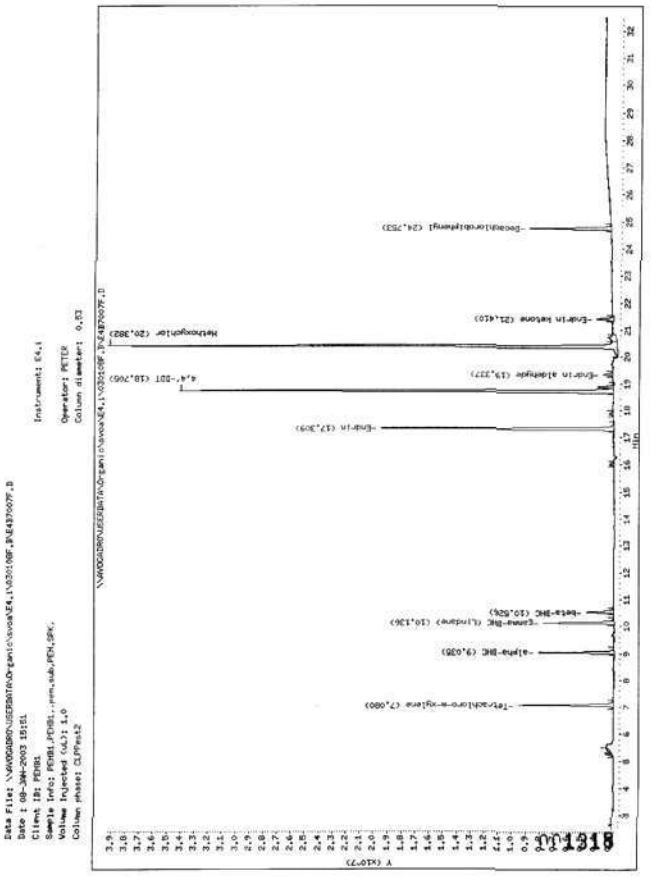
Instrument ID (1): E4 Instrument ID (2): E4

GC Column(1): CLPPEST2 ID: 0.53(mm) GC Column(2): CLPPEST1 ID: 0.53(mm)

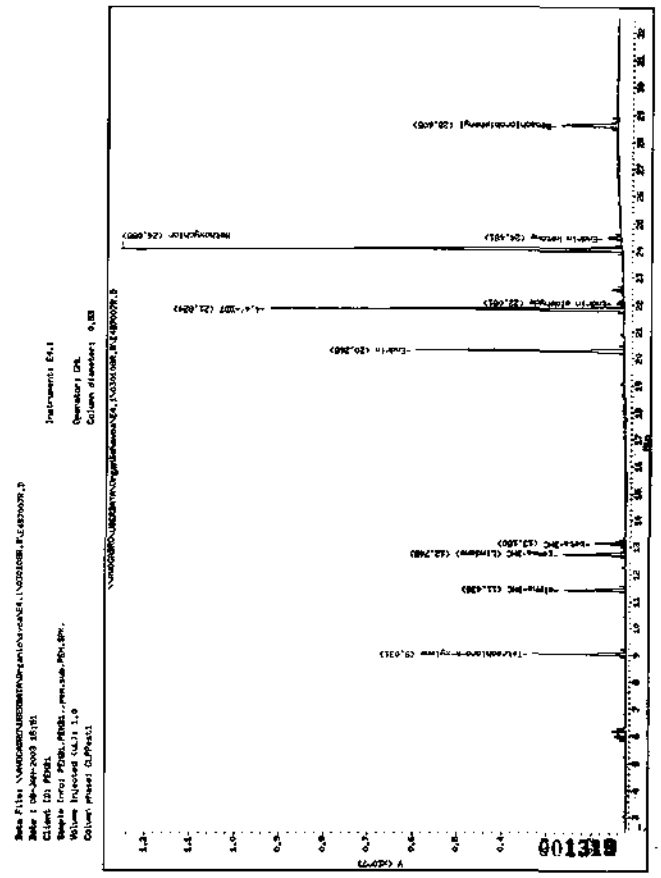
ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
Endrin ketone	1	21.40	21.33	21.47	18	
	2	24.47	24.40	24.54	18	0.0
Endrin aldehyde	1	19.33	19.26	19.40	14	
	2	22.04	21.97	22.11	15	6.9
alpha-Chlordane	1	15.52	15.45	15.59	7.8	
	2	18.34	18.27	18.41	7.7	1.3
gamma-Chlordane	1	15.09	15.02	15.16	7.5	
	2	17.86	17.78	17.92	7.2	4.1
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

PEST

001317



001318



001319

Data File: B4B7007F.D
Report Date: 09-Jan-2003 10:32

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\B4.i\030108F.B\B4B7007F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\B4.i\030108R.B\B4B7007R.D
Inj Date : 08-JAN-2003 15:51
Sample Info: PEMB1,PEMB1,,pem.sub,PEM.SPK,
Misc Info :
Cal Date : 09-JAN-2003 10:18
Operator : PETER
Inst ID : B4.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\B4.i\030108F.B\e48081A-f.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\B4.i\030108R.B\e48081A-r.m
Sub List #1 : pem.sub
Sub List #2 : pem.sub
Col #1 Phase : CLPPest2
Col #2 Phase : CLPPest1

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Ramp#1	Ramp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Recio
Tetrachloro-m-xylene	7.080	9.031	20578625	6787814	0.018	0.018		100.00
alpha-BHC	9.035	11.438	19058643	4550777	0.0092	0.0097		100.00
gamma-BHC (Lindane)	10.176	12.745	18552212	4682570	0.0089	0.0096		100.00
beta-BHC	10.526	13.190	8408438	3863053	0.010	0.010		100.00
Endrin	17.303	20.368	64238320	15833348	0.052	0.055		100.00
4,4'-DDT	18.788	21.824	130931754	28580947	0.095	0.092		100.00
Endrin aldehyde	19.937	22.061	2985744	641888	0.0023	0.0021		100.00[a]
Methoxychlor	20.383	24.085	180803887	41078198	0.75	0.71		100.00
Endrin ketone	21.810	24.481	4505013	1471509	0.0044	0.0048		100.00[a]
Decachlorobiphenyl	24.783	28.608	83582804	7986848	0.030	0.023		100.00

SE 01/08/03

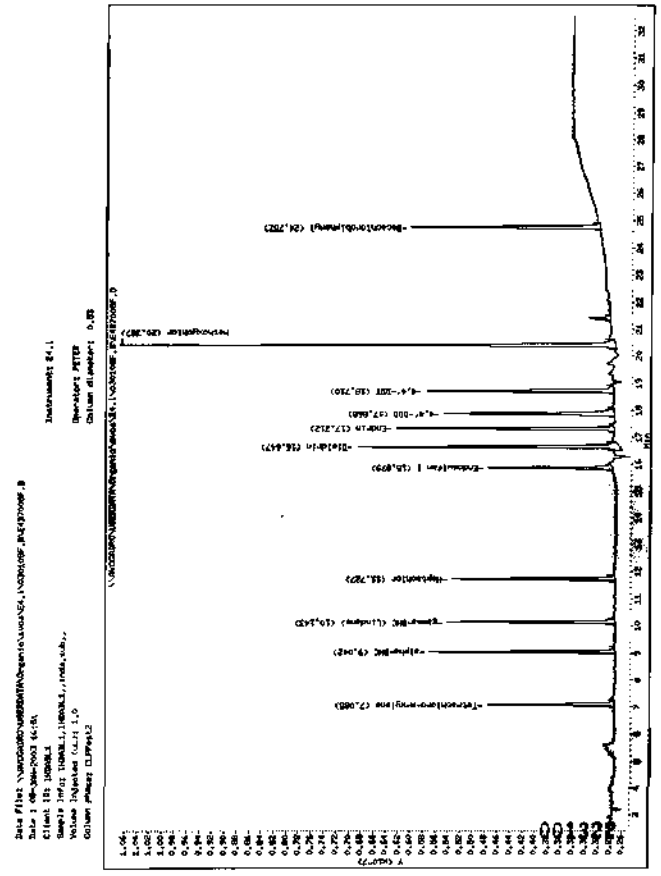
001320

Data File: B4B7007F.D
Report Date: 09-Jan-2003 10:32

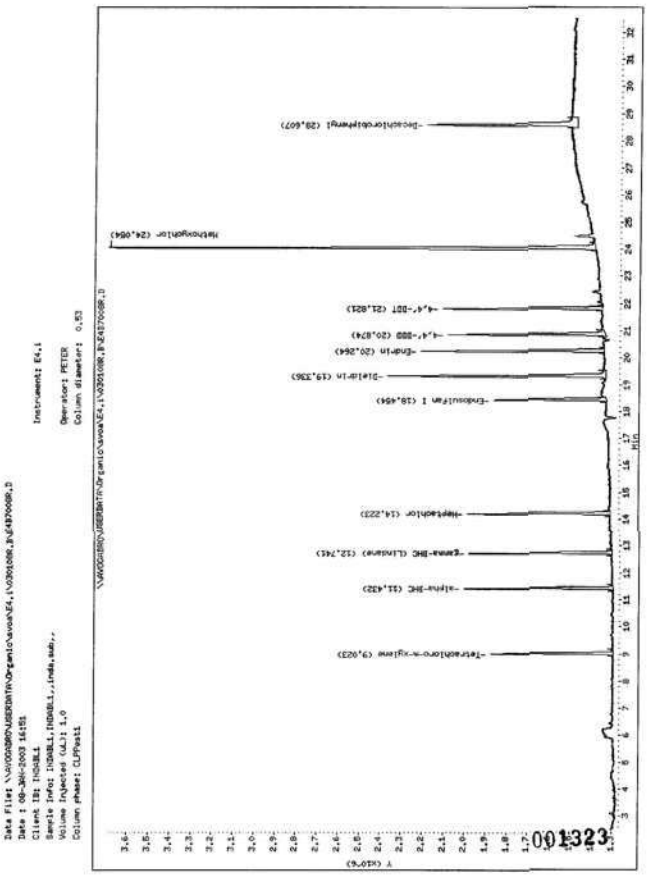
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

001321



001322



001323

Data File: E4B7008F.D
Report Date: 09-Jan-2003 10:32

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\E4B7008F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\E4B7008R.D
Inj Date : 08-JAN-2003 16:51
Sample Info: INDABL1,INDABL1,,inda.sub,,
Misc Info :
Cal Date : 09-JAN-2003 10:18
Operator : PETER
Inst ID : E4.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\e48081A-f.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\e48081A-r.m
Sub List #1 : inda.sub
Sub List #2 : inda.sub
Col #1 Phase : CLPPest2
Col #2 Phase : CLPPest1

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.085	7.033	7114401	1901545	0.0054	0.0051		100.00(a)
alpha-BHC	9.042	11.433	10586050	3355749	0.0051	0.0045		100.00(a)
gamma-BHC (Lindane)	10.143	12.741	9912663	2321085	0.0052	0.0047		100.00(a)
Heptachlor	11.727	14.223	10056104	2524273	0.0054	0.0051		100.00(a)
Endosulfan I	15.879	18.454	8082566	2049136	0.0052	0.0050		100.00(a)
Dieldrin	16.647	19.336	17867257	3988510	0.010	0.0095		100.00(a)
Endrin	17.313	20.364	13714900	3260347	0.011	0.010		100.00(a)
4,4'-DDD	17.868	20.874	12736458	2930422	0.0098	0.0095		100.00(a)
4,4'-DDT	18.710	21.821	12733796	2828546	0.010	0.0092		100.00(a)
Methoxychlor	20.387	24.054	33505521	8460924	0.055	0.052		100.00(a)
Decachlorobiphenyl	24.752	28.607	12376325	3947879	0.010	0.012		100.00(a)

52 01/01/03

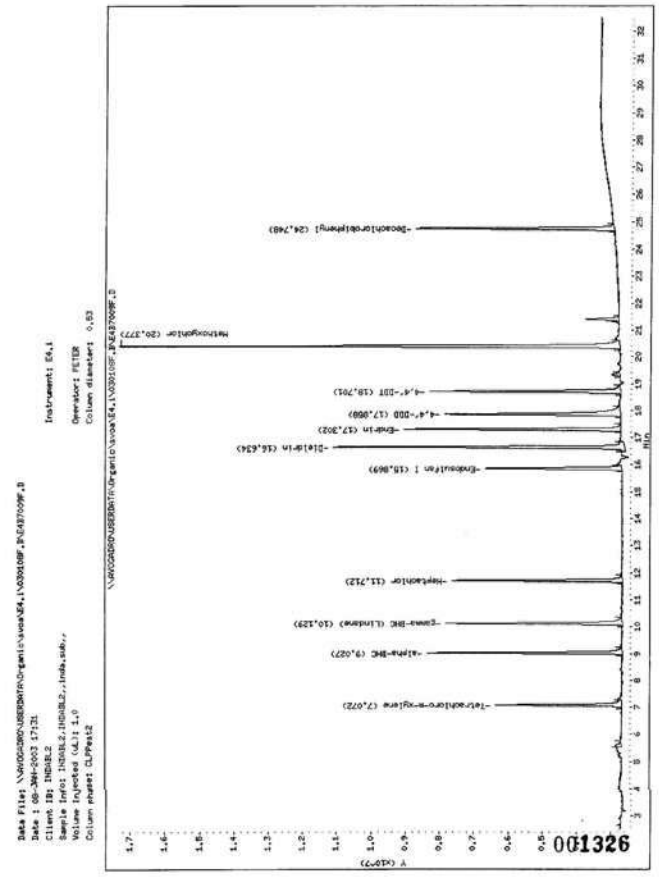
001324

Data File: E4B7008F.D
Report Date: 09-Jan-2003 10:32

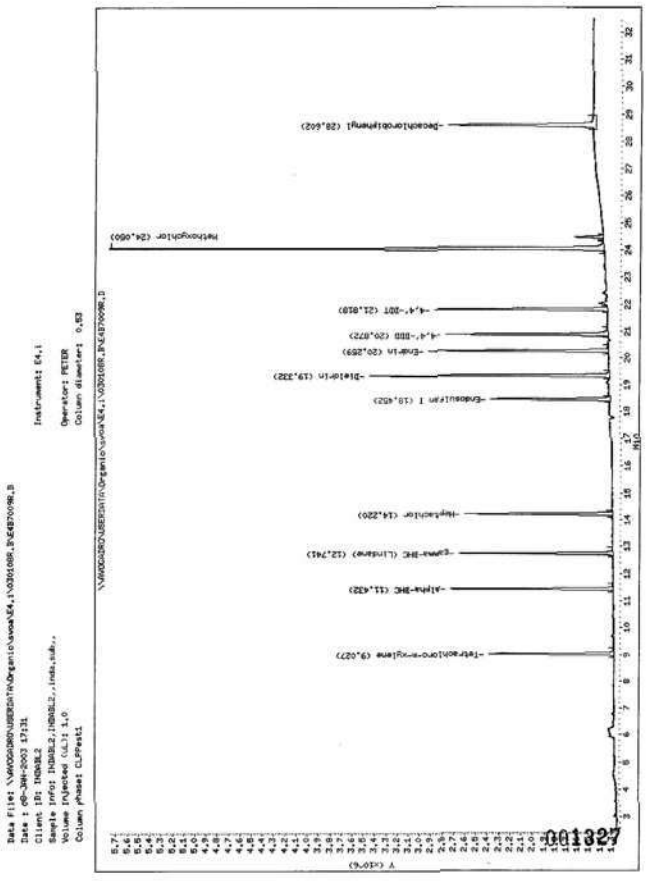
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

001325



001326



Data File: B4B7009F.D
Report Date: 09-Jan-2003 10:32

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\E4B7009F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\E4B7009R.D
Inj Date : 08-JAN-2003 17:31
Sample Info: INDABL2,INDABL2,,inda.sub,,
Misc Info :
Cal Date : 09-JAN-2003 10:18
Operator : PETER
Inst ID : E4.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\e48081A-f.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\e48081A-r.m
Sub List #1 : inda.sub
Sub List #2 : inda.sub
Col #1 Phase : CLPPest2
Col #2 Phase : CLPPest1

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.072	9.027	13839213	3774665	0.010	0.010		100.00(a)
Alpha-BHC	9.027	11.432	20854868	4846522	0.010	0.0093		100.00(a)
gamma-BHC (Lindane)	10.129	12.741	19719264	4723518	0.0098	0.0095		100.00(a)
Heptachlor	11.712	14.220	19295393	4903879	0.010	0.0098		100.00(a)
Endosulfan I	15.869	18.452	16379801	4145446	0.010	0.010		100.00(a)
Dieldrin	16.634	19.332	35401624	8090490	0.021	0.019		100.00(a)
Endrin	17.302	20.259	24828461	6107386	0.020	0.019		100.00(a)
4,4'-DDD	17.856	20.872	26376700	5972378	0.020	0.019		100.00(a)
4,4'-DDT	18.701	21.818	24081507	5821486	0.019	0.019		100.00(a)
Methoxychlor	20.377	24.050	63166696	16958048	0.10	0.099		100.00(a)
Decachlorobiphenyl	24.748	28.602	23971772	7328417	0.020	0.022		100.00(a)

sz 01/09/03

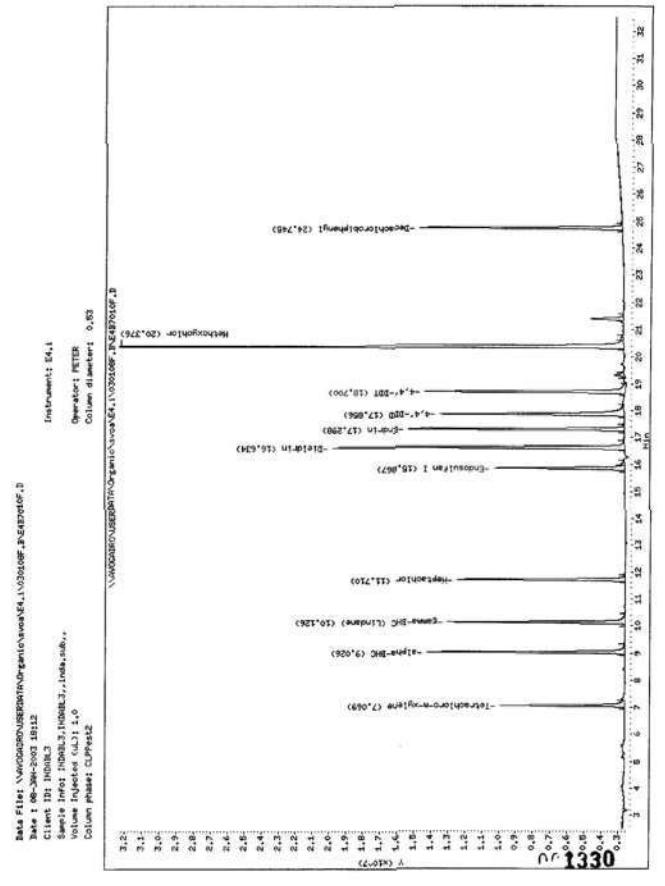
001328

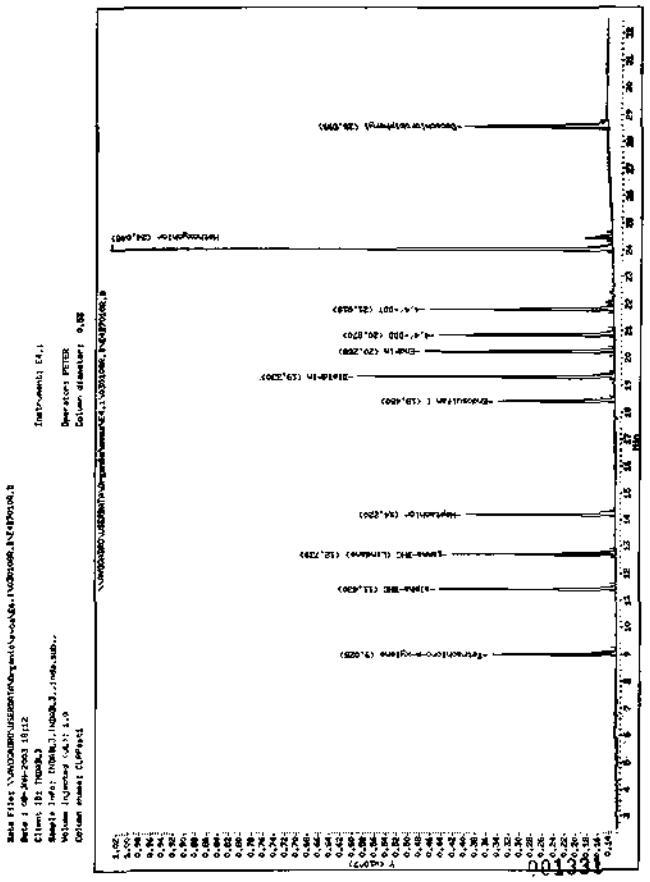
Data File: B4B7009F.D
Report Date: 09-Jan-2003 10:32

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

001329





Data File: B4B7010F.D
Report Date: 09-Jan-2003 10:32

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\B4.i\030108F.B\B4B7010F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\B4.i\030108R.B\B4B7010R.D
Inj Date : 08-JAN-2003 16:12
Sample Info: INDABL3,INDABL3,,inda.sub,,
Misc Info :
Cal Date : 09-JAN-2003 10:18
Operator : PETER
Inst ID : B4.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\B4.i\030108F.B\e48081A-f.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\B4.i\030108R.B\e48081A-r.m
Sub List #1 : inda.sub
Sub List #2 : inda.sub
Col #1 Phase : CLPPest2
Col #2 Phase : CLPPest1

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

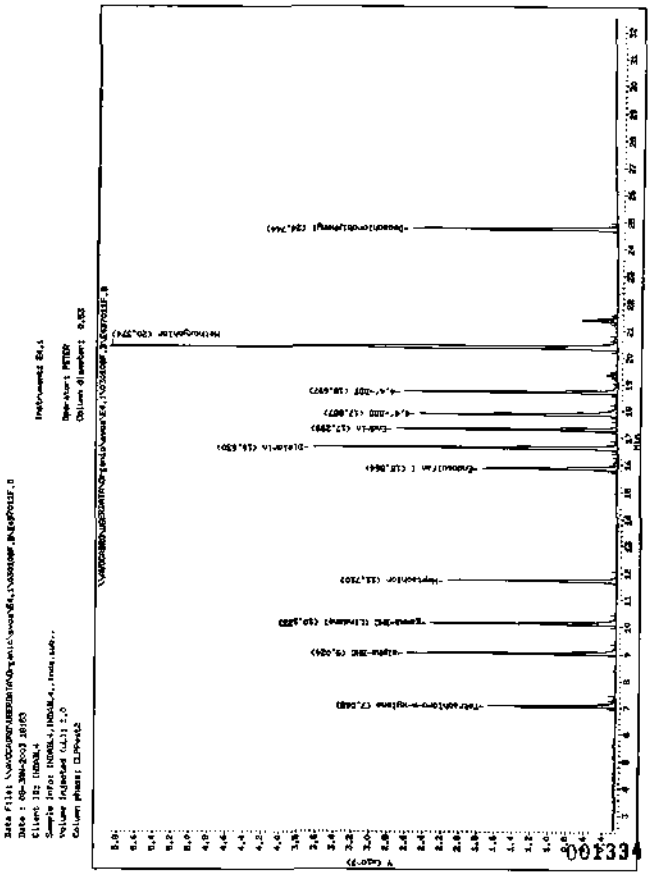
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.064	8.625	26636587	7478147	0.020	0.020		160.00[a]
alpha-BHC	9.026	11.430	41487951	10158723	0.020	0.020		160.00[a]
gamma-BHC (Lindane)	10.126	13.729	39387016	9931849	0.020	0.020		160.00[a]
Heptachlor	11.710	16.306	37485719	9951572	0.020	0.020		160.00[a]
Endosulfan I	13.867	18.498	31567279	8014063	0.020	0.020		160.00[a]
Dieldrin	16.694	19.990	47147810	10660431	0.040	0.040		160.00[a]
Endrin	17.398	20.258	48410831	12656698	0.040	0.040		160.00[a]
4,4'-DDD	17.866	20.870	51295565	12564481	0.041	0.040		160.00[a]
4,4'-DDT	18.703	21.819	51756458	12674410	0.041	0.040		160.00[a]
Methoxychlor	20.376	24.048	133714341	34815508	0.10	0.10		160.00[a]
Decachlorobiphenyl	24.745	29.892	47083745	12165918	0.041	0.040		160.00[a]

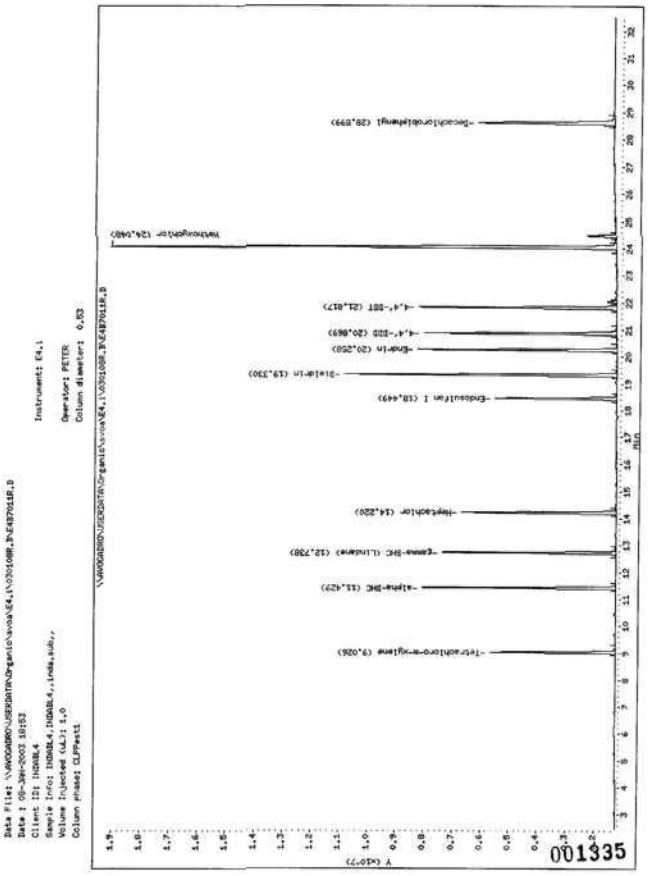
SEQ/09/03

Data File: B4B7010F.D
Report Date: 09-Jan-2003 10:32

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).





Data File: E4B7011F.D
Report Date: 09-Jan-2003 10:32

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\E4B7011F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\E4B7011R.D
Inj Date : 08-JAN-2003 18:53
Sample Info: INDABL4,INDABL4,,inda.sub,,
Misc Info :
Cal Date : 09-JAN-2003 10:18
Operator : PETER
Inst ID : E4.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\e48081A-f.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\e48081A-r.m
Sub List #1 : inda.sub
Sub List #2 : inda.sub
Col #1 Phase : CLPPest2
Col #2 Phase : CLPPest1

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.048	9.026	50247723	14704474	0.038	0.039		100.00(a)
alpha-BHC	9.024	11.429	82274864	21734424	0.040	0.043		100.00(a)
gamma-BHC (Lindane)	10.123	12.738	76499284	20488705	0.040	0.041		100.00(a)
Heptachlor	11.710	14.220	71781707	18492718	0.038	0.039		100.00(a)
Endosulfan I	15.864	18.449	61025905	16056593	0.039	0.040		100.00(a)
Dieldrin	16.630	19.330	131463151	34478899	0.077	0.082		100.00(a)
Endrin	17.299	20.258	93682857	25394916	0.076	0.080		100.00(a)
4,4'-DDD	17.857	20.869	102606808	25763471	0.079	0.082		100.00(a)
4,4'-DDT	18.697	21.817	99615101	25648825	0.080	0.083		100.00(a)
Methoxychlor	20.374	24.048	234773820	67701418	0.38	0.40		100.00(a)
Decachlorobiphenyl	24.744	28.799	90559660	24832500	0.077	0.073		100.00

SZ 01/09/03

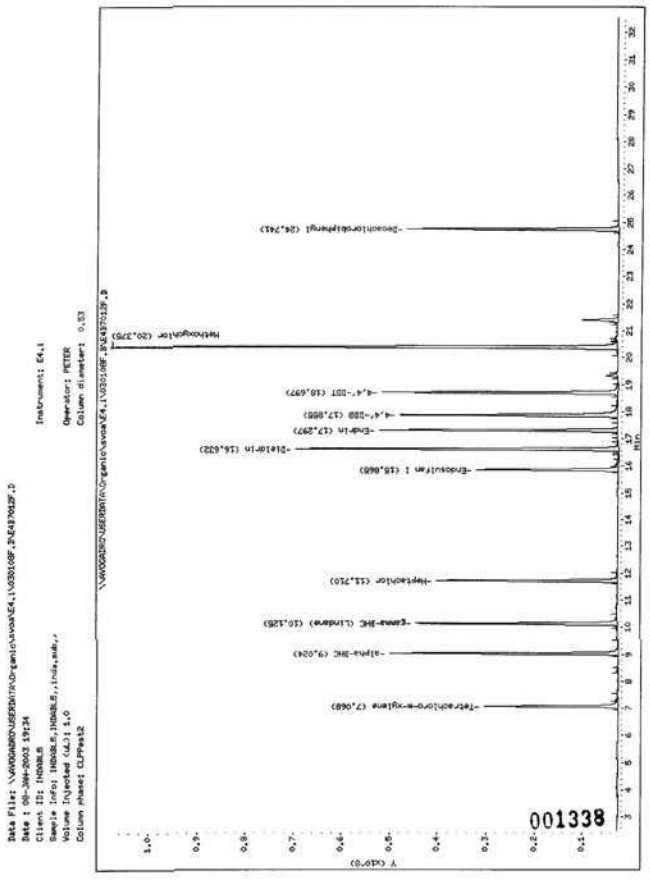
001336

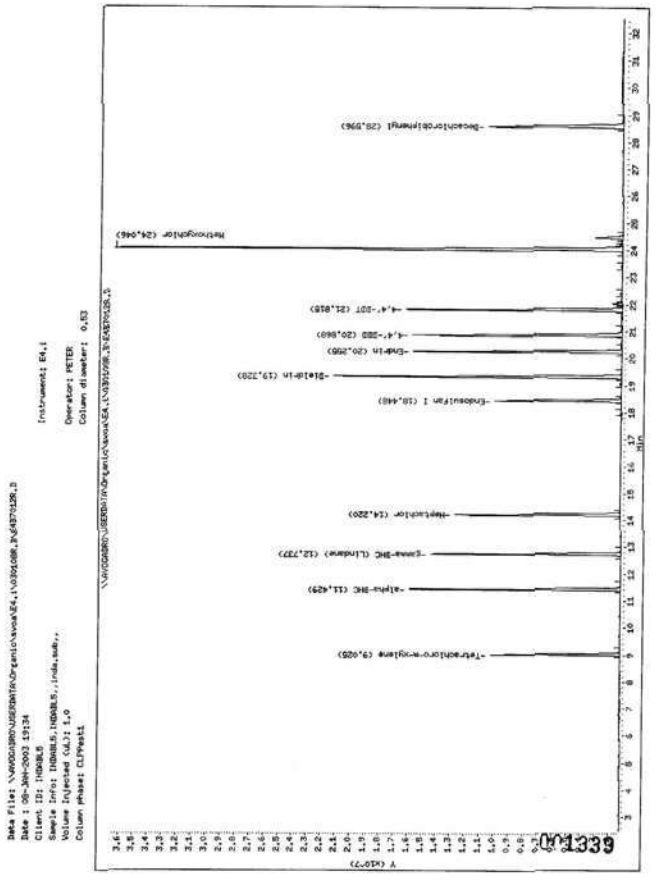
Data File: E4B7011F.D
Report Date: 09-Jan-2003 10:32

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

001337





Data File: E4B7012F.D
Report Date: 09-Jan-2003 10:32

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\E4B7012F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\E4B7012R.D
Inj Date : 08-JAN-2003 19:34
Sample Info: INDABL5,INDABL5,,inda.sub,,
Misc Info :
Cal Date : 09-JAN-2003 10:18
Operator : PETER
Inst ID : E4.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\e48081A-f.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\e48081A-r.m
Sub List #1 : inda.sub
Sub List #2 : inda.sub
Col #1 Phase : CLPPest2
Col #2 Phase : CLPPest1

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

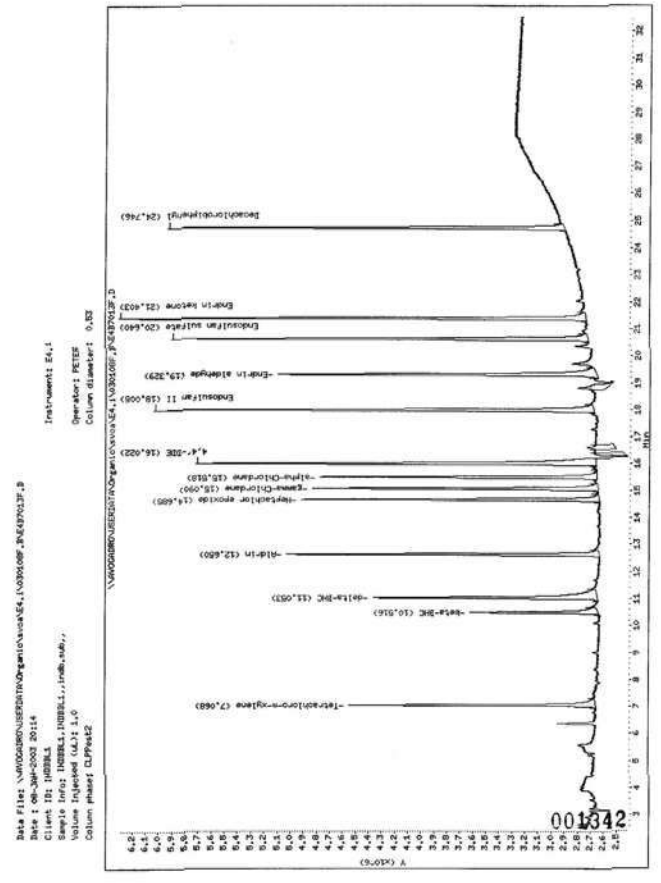
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.068	9.025	96113066	28283878	0.073	0.078		100.00
alpha-BHC	9.024	11.429	164996947	46946462	0.079	0.090		100.00
gamma-BHC (Lindane)	10.125	12.737	152230693	43488679	0.080	0.097		100.00
Heptachlor	11.710	14.220	140391609	40822536	0.075	0.082		100.00
Endosulfan I	15.865	18.448	114499382	33168128	0.075	0.079		100.00
Dieldrin	16.632	19.328	258927272	72180162	0.15	0.17		100.00
Endrin	17.297	20.255	185647550	52557403	0.15	0.16		100.00
4,4'-DDD	17.855	20.868	201922063	53591810	0.16	0.17		100.00
4,4'-DDT	18.697	21.815	199481448	53637947	0.16	0.17		100.00
Methoxychlor	20.375	24.046	433824394	131823248	0.71	0.77		100.00
Decachlorobiphenyl	24.741	28.996	174610856	46707820	0.15	0.14		100.00(A)

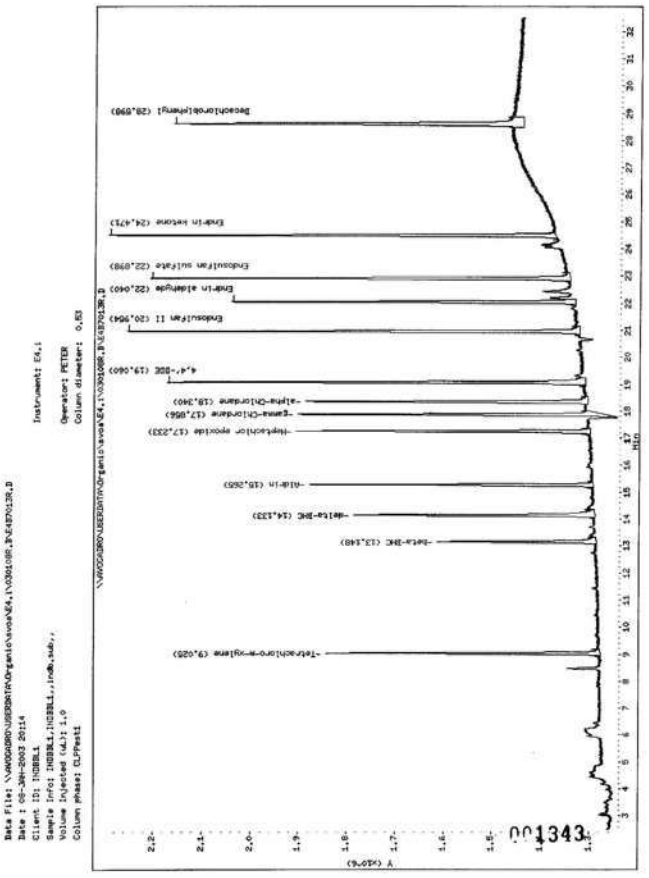
SZ 01/09/03

Data File: E4B7012F.D
Report Date: 09-Jan-2003 10:32

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.





Data File: E4B7013F.D
Report Date: 09-Jan-2003 10:56

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\E4B7013F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\E4B7013R.D
Inj Date : 08-JAN-2003 20:14
Sample Info: INDBBL1,INDBBL1,,indb.sub,,
Misc Info :
Cal Date : 09-JAN-2003 10:54
Operator : PETER
Inst ID : E4.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\e48081A-f.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\e48081A-r.m
Sub List #1 : indb.sub
Sub List #2 : indb.sub
Col #1 Phase : CLPPest2
Col #2 Phase : CLPPest1

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.068	9.025	7349260	1954408	0.0056	0.0053		100.00(a)
Aldrin	13.650	15.265	9735882	2213233	0.0054	0.0049		100.00(a)
beta-BHC	10.516	13.148	4444194	1309884	0.0053	0.0053		100.00(a)
delta-BHC	11.053	14.133	9122420	2081438	0.0049	0.0046		100.00(a)
Heptachlor epoxide	14.685	17.233	9429311	2327543	0.0055	0.0052		100.00(a)
gamma-Chlordane	15.090	17.856	9625803	2728410	0.0054	0.0056		100.00(a)
alpha-Chlordane	15.518	18.340	9201436	2342490	0.0055	0.0053		100.00(a)
4,4'-DDE	16.022	19.060	14063933	3652965	0.010	0.0094		100.00(aM)
Endosulfan II	18.005	20.954	15151564	3820388	0.011	0.010		100.00(a)
Endrin aldehyde	19.329	22.040	11947261	2991495	0.011	0.010		100.00(a)
Endosulfan sulfate	20.640	22.898	14049567	3543015	0.011	0.010		100.00(a)
Endrin ketone	21.403	24.471	15249857	3813219	0.010	0.010		100.00(a)
Decachlorobiphenyl	24.746	28.598	12734092	4060453	0.011	0.012		100.00(a)

SZ 01/08/03 MS

SZ 01/01/03

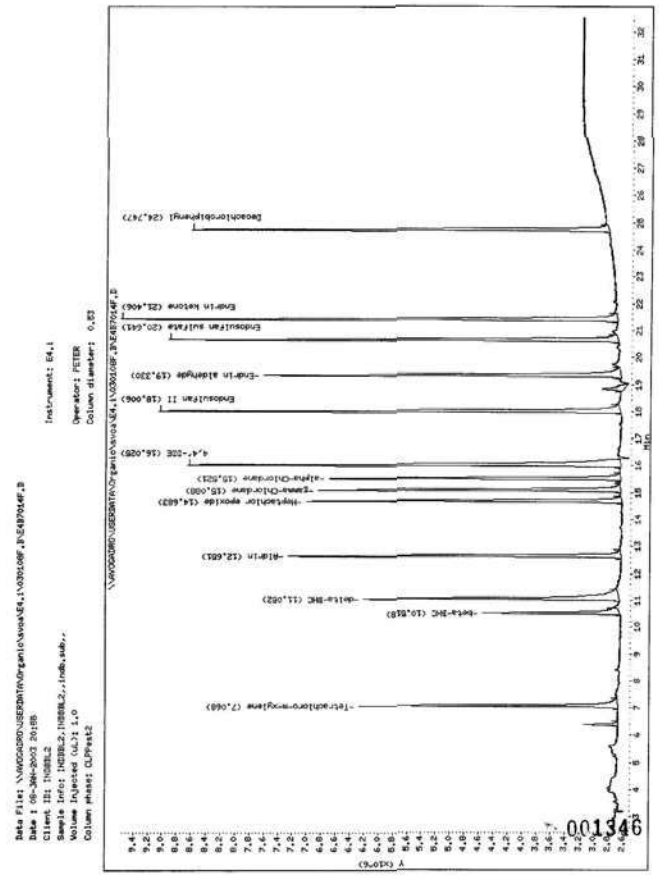
001344

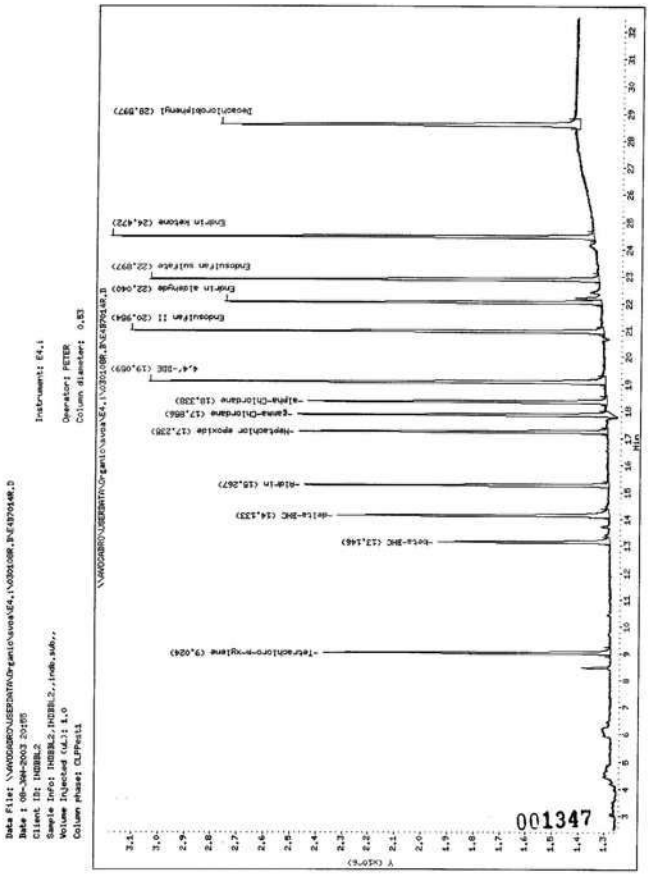
Data File: E4B7013F.D
Report Date: 09-Jan-2003 10:56

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

001345





Data File: E4B7014F.D
Report Date: 09-Jan-2003 10:56

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\E4B7014F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\E4B7014R.D
Inj Date : 08-JAN-2003 20:55
Sample Info: INDBBL2,INDBBL2,,indb.sub,,
Misc Info :
Cal Date : 09-JAN-2003 10:54
Operator : PETER
Inst ID : E4.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\e48081A-f.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\e48081A-r.m
Sub List #1 : indb.sub
Sub List #2 : indb.sub
Col #1 Phase : CLPPest2
Col #2 Phase : CLPPest1

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.068	9.024	14167271	3870030	0.011	0.010		100.00(a)
Aldrin	13.651	15.267	18815044	4377914	0.010	0.0097		100.00(a)
beta-BHC	10.819	13.146	8808302	2540404	0.010	0.010		100.00(a)
delta-BHC	11.052	14.133	18714320	4238932	0.010	0.0093		100.00(a)
Heptachlor epoxide	14.683	17.235	17930524	4506516	0.010	0.0100		100.00(a)
gamma-Chlordane	15.048	17.856	18461777	4921410	0.010	0.0099		100.00(a)
alpha-Chlordane	15.521	18.338	17262945	4482171	0.010	0.010		100.00(a)
4,4'-DDE	16.025	19.059	31544637	7364974	0.020	0.019		100.00(aM)
Endosulfan II	18.006	20.954	28801380	7160113	0.020	0.019		100.00(a)
Endrin aldehyde	19.330	22.040	23074769	5709315	0.021	0.020		100.00(a)
Endosulfan sulfate	20.641	22.897	27034023	6816750	0.020	0.020		100.00(a)
Endrin ketone	21.406	24.472	29498711	7198328	0.020	0.020		100.00(a)
Decachlorobiphenyl	24.747	28.597	24455678	7204732	0.021	0.021		100.00(a)

SZ 01/09/03 M

SZ 01/09/03

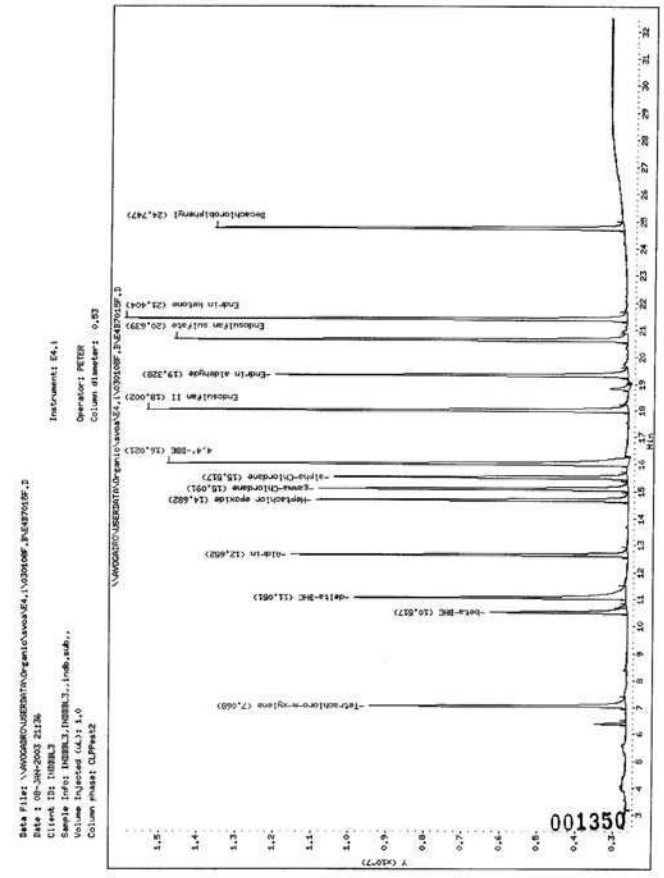
001348

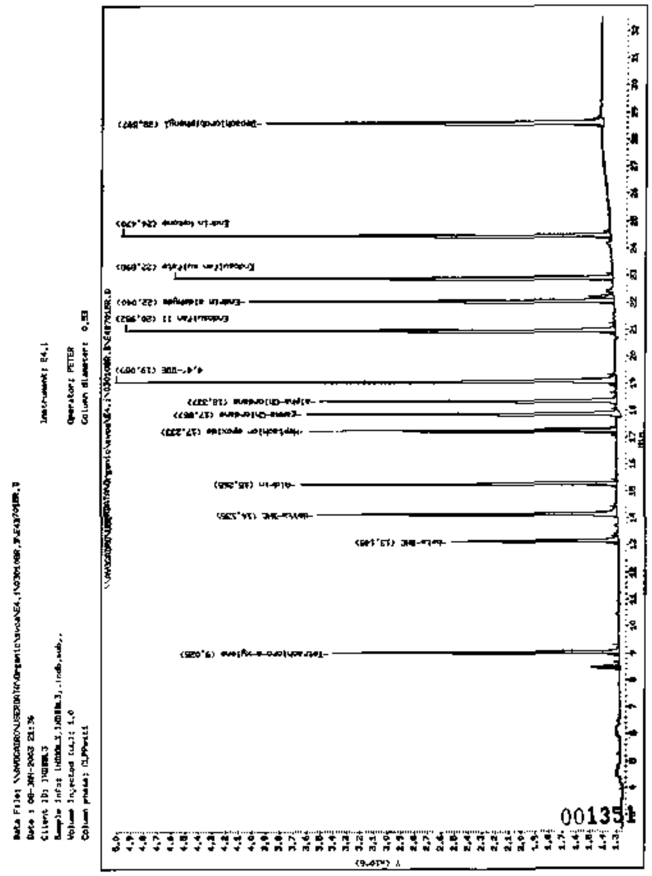
Data File: E4B7014F.D
Report Date: 09-Jan-2003 10:56

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

001349





001351

Data File: E4B7015F.D
Report Date: 09-Jan-2003 10:33

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\E4B7015F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\E4B7015R.D
Inj Date : 08-JAN-2003 21:36
Sample Info: INDBBL3,INDBBL3,,indb.sub,,
Misc Info :
Cal Date : 09-JAN-2003 10:18
Operator : PETER
Inst ID : E4.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\e4B081A-f.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\e4B081A-r.m
Sub List #1 : indb.sub
Sub List #2 : indb.sub
Col #1 Phase : CLPPest2
Col #2 Phase : CLPPest1

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.065	9.325	26194344	7362650	0.030	0.030		100.00(a)
Aldrin	12.452	15.245	35442942	8443144	0.030	0.028		100.00(a)
beta-BHC	10.517	13.145	16512675	4450118	0.020	0.020		100.00(a)
delta-BHC	11.091	14.135	36327727	4408395	0.020	0.019		100.00(a)
Heptachlor epoxide	14.882	17.333	33791613	8624220	0.020	0.018		100.00(a)
gamma-Chlordane	15.091	17.857	34856861	9150188	0.020	0.019		100.00(a)
alpha-Chlordane	15.517	18.337	32213356	8816345	0.013	0.019		100.00(a)
4,4'-DDE	16.021	19.059	61409960	14786064	0.034	0.034		100.00(a)
Endosulfan II	18.002	20.952	65126898	14103460	0.039	0.036		100.00(a)
Endrin aldehyde	19.320	22.040	42265721	10197861	0.038	0.038		100.00(a)
Endosulfan sulfate	20.659	22.894	50737347	11850484	0.038	0.036		100.00(a)
Endrin ketone	21.404	24.470	55316401	15764626	0.038	0.034		100.00(a)
Decachlorobiphenyl	24.747	28.587	45731877	12873548	0.038	0.038		100.00(a)

SE 01/09/03

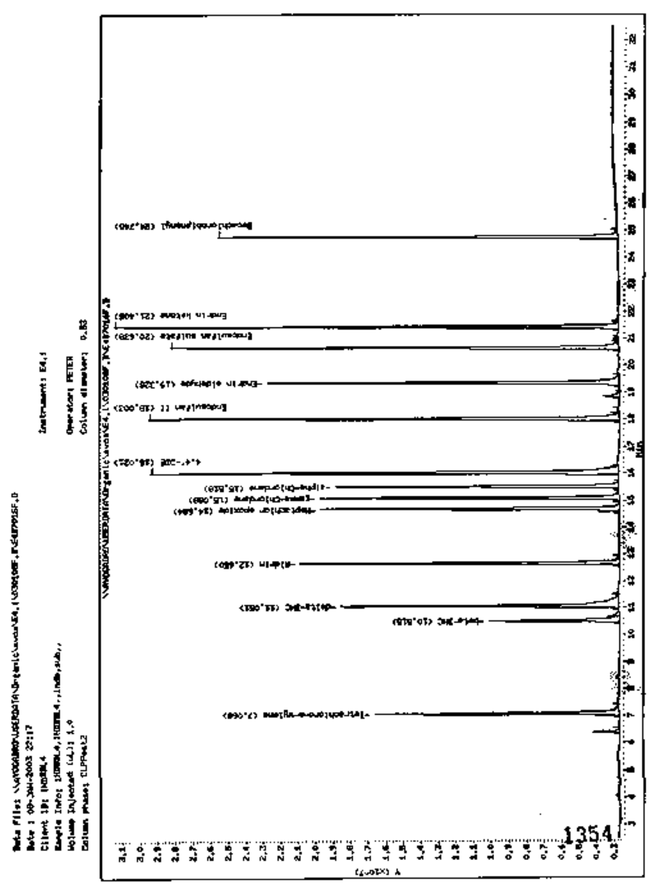
001352

Data File: E4B7015F.D
Report Date: 09-Jan-2003 10:33

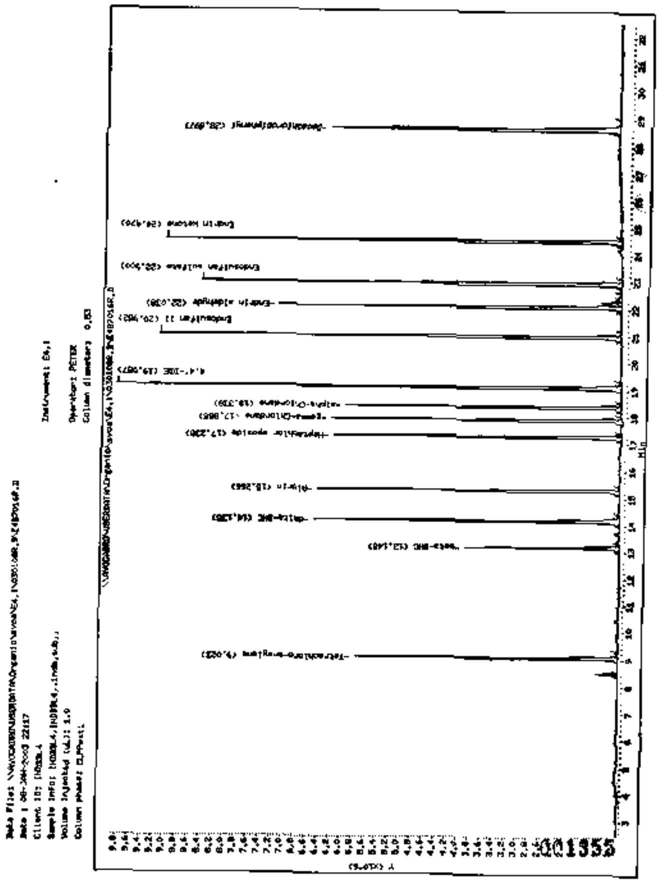
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

001353



1354



Data File: E4B7016F.D
Report Date: 09-Jan-2003 10:33

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\E4B7016F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\E4B7016R.D
Inj Date : 08-JAN-2003 22:17
Sample Info: INDBBL4,INDBBL4,,indb.sub,,
Misc Info :
Cal Date : 09-JAN-2003 10:18
Operator : PETER
Inst ID : E4.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\e48081A-f.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\e48081A-r.m
Sub List #1 : indb.sub
Sub List #2 : indb.sub
Col #1 Phase : CLPPest2
Col #2 Phase : CLPPest1

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	*10000.000*	*Volume of final extract (uL)*
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

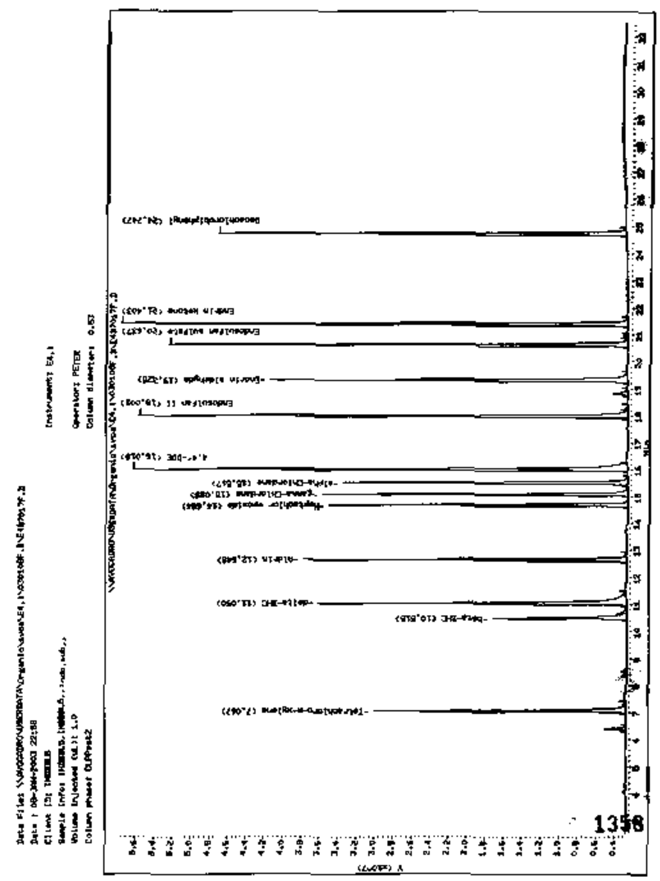
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.068	9.022	52039017	15175493	0.039	0.041		100.00(a)
Aldrin	12.490	15.240	91408316	18715319	0.039	0.041		100.00(a)
beta-BHC	10.515	13.165	33621878	8851953	0.039	0.040		100.00(a)
delta-BHC	11.051	14.135	74747144	19443760	0.041	0.243		100.00(a)
Heptachlor epoxide	14.884	17.334	47445012	19228349	0.039	0.040		100.00(a)
gamma-Chlordane	15.088	17.654	63984633	18564763	0.039	0.039		100.00(a)
alpha-Chlordane	15.528	18.334	64720998	17634663	0.039	0.040		100.00(a)
4,4'-DDE	16.683	19.053	125777557	33146233	0.077	0.095		100.00(a)
Endosulfan II	18.003	20.452	151540367	35866807	0.079	0.081		100.00(a)
Endrin aldehyde	19.234	21.034	45401367	33347853	0.078	0.080		100.00(a)
Endosulfan sulfate	20.436	22.900	159451473	27455753	0.080	0.081		100.00(a)
Endrin ketone	21.445	24.470	115272334	34649917	0.080	0.083		100.00(a)
Decachlorobiphenyl	24.245	28.597	98916200	23478143	0.079	0.076		100.00

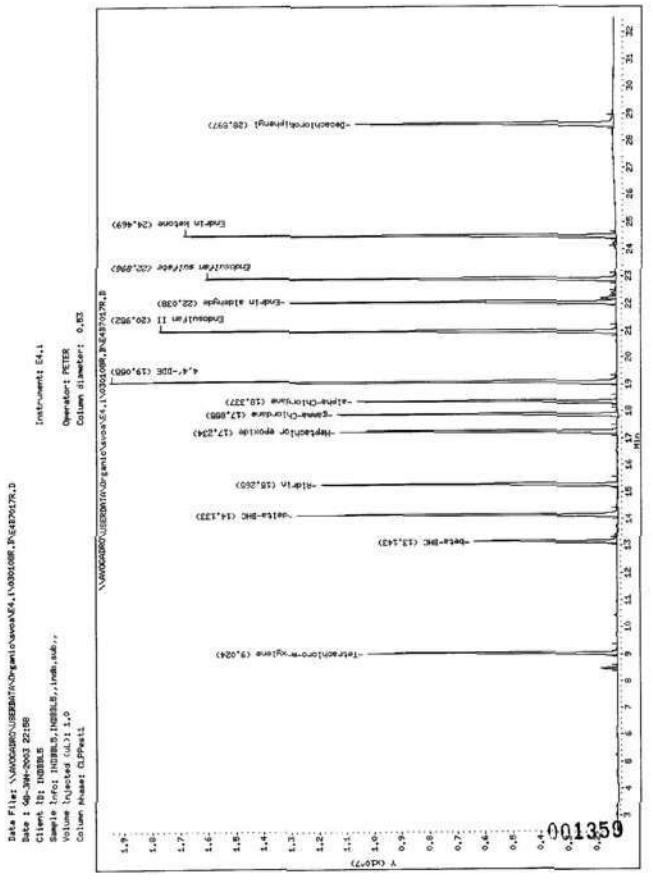
SZ 01/09/03

Data File: E4B7016F.D
Report Date: 09-Jan-2003 10:33

QC Flag Legend

a - Target compound detected but, Quantitated amount Below Limit Of Quantitation(BLOQ).





Data File: E4B7017F.D
Report Date: 09-Jan-2003 10:33

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\E4B7017F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\E4B7017R.D
Inj Date : 08-JAN-2003 22:58
Sample Info: INDBBL5,INDBBL5,,indb.sub,,
Misc Info :
Cal Date : 09-JAN-2003 10:18
Operator : PETER
Inst ID : E4.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\e48081A-f.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\e48081A-r.m
Sub List #1 : indb.sub
Sub List #2 : indb.sub
Col #1 Phase : CLPPest2
Col #2 Phase : CLPPest1

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.067	9.024	98192309	29671329	0.074	0.080		100.00
Aldrin	12.648	15.265	135702460	39650231	0.075	0.084		100.00
beta-BHC	10.515	13.143	80974349	18673078	0.073	0.075		100.00
delta-BHC	11.050	14.133	149698240	40951578	0.080	0.090		100.00(A)
Heptachlor epoxide	14.684	17.234	134137792	36067582	0.073	0.080		100.00
gamma-Chlordane	15.088	17.855	132290674	37427507	0.074	0.077		100.00
alpha-Chlordane	15.517	18.337	121419122	34679620	0.073	0.078		100.00
4,4'-DDE	16.018	19.055	240848050	68153659	0.15	0.18		100.00
Endosulfan II	18.001	20.952	215329238	60865517	0.15	0.16		100.00
Endrin aldehyde	19.325	22.038	161760775	44169493	0.15	0.16		100.00
Endosulfan sulfate	20.637	22.896	200259208	54921509	0.15	0.16		100.00
Endrin ketone	21.403	24.469	231184004	58797136	0.15	0.16		100.00
Decachlorobiphenyl	24.747	28.597	176905512	47425153	0.15	0.14		100.00(A)

sz 01/09/03

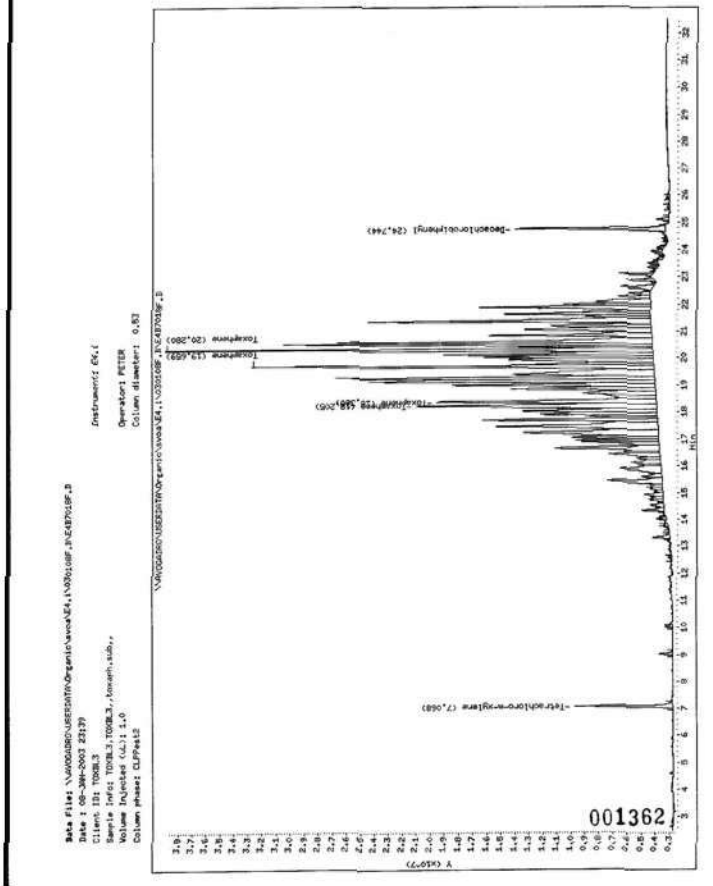
001360

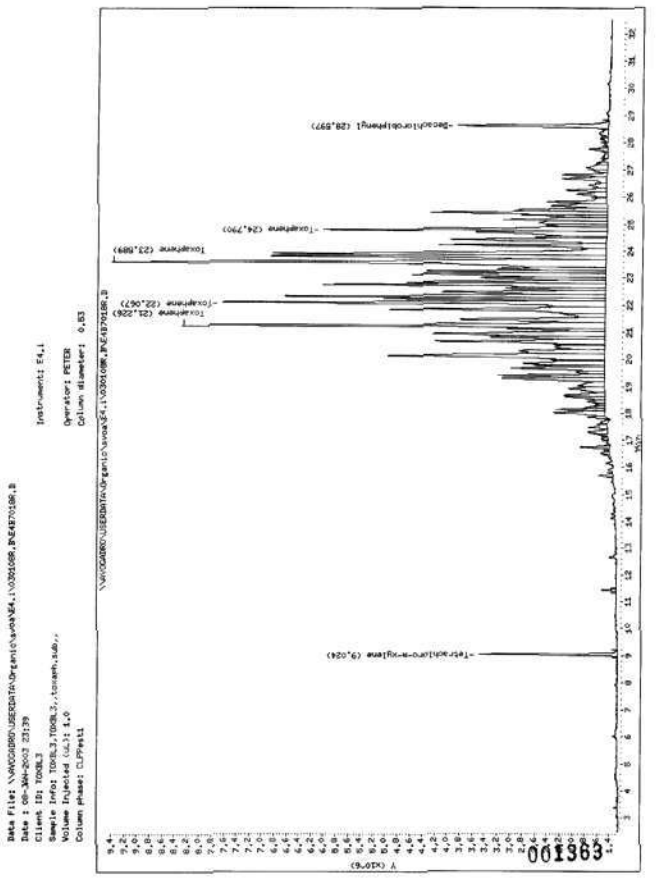
Data File: E4B7017F.D
Report Date: 09-Jan-2003 10:33

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

001361





Data File: E4B7018F.D
Report Date: 09-Jan-2003 10:33

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\E4B7018F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\E4B7018R.D
Inj Date : 08-JAN-2003 23:39
Sample Info: TOXBL3,TOXBL3,,toxaph.sub,,
Misc Info :
Cal Date : 09-JAN-2003 10:18
Operator : PETER
Inst ID : E4.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\e48081A-f.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\e48081A-r.m
Sub List #1 : toxaph.sub
Sub List #2 : toxaph.sub
Col #1 Phase : CLPPest2
Col #2 Phase : CLPPest1

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

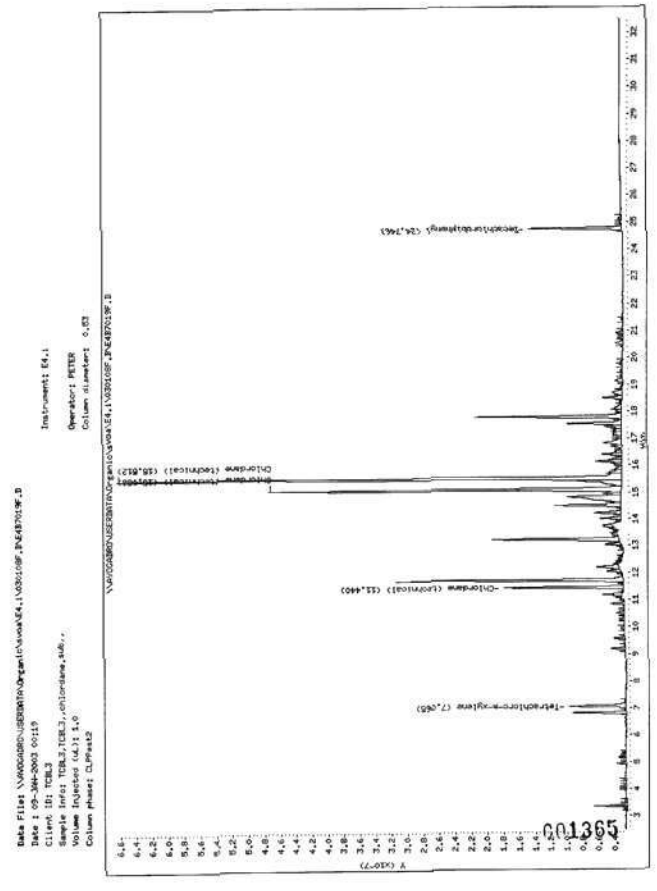
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.068	9.024	26487446	7650317	0.020	0.020		100.00(a)
Decachlorobiphenyl	24.744	28.597	46301599	12626077	0.040	0.037		100.00(a)
Toxaphene	18.205	21.226	114948082	38342724	2.5	3.5	80.00- 120.00	100.00(a)
	18.360	22.067	105324433	35088808	2.5	3.5	71.47- 111.47	91.47(a)
	19.659	23.589	137705430	59424934	2.5	2.5	147.86- 167.86	147.86(a)
	20.280	24.790	167932736	83571251	2.5	2.5	183.27- 223.27	203.27(a)
			Average of Peak Amounts =		2.5	2.5		

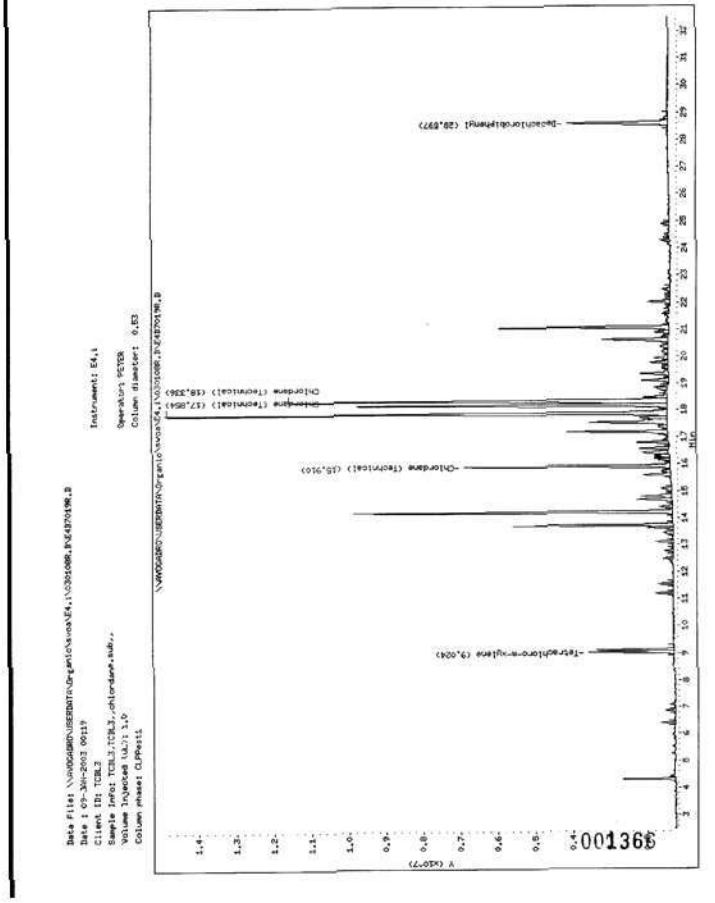
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

sz 01/09/03

001364





Data File: B4B7019F.D
Report Date: 09-Jan-2003 10:33

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\B4.i\030108F.B\B4B7019F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\B4.i\030108R.B\B4B7019R.D
Inj Date : 09-JAN-2003 00:19
Sample Info: TCBL3,TCBL3,,chlordane.sub,,
Misc Info :
Cal Date : 09-JAN-2003 10:18
Operator : PETER
Inst ID : B4.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\B4.i\030108F.B\e48081A-f.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\B4.i\030108R.B\e48081A-r.m
Sub List #1 : chlordane.sub
Sub List #2 : chlordane.sub
Col #1 Phase : CLPPest2
Col #2 Phase : CLPPest1

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

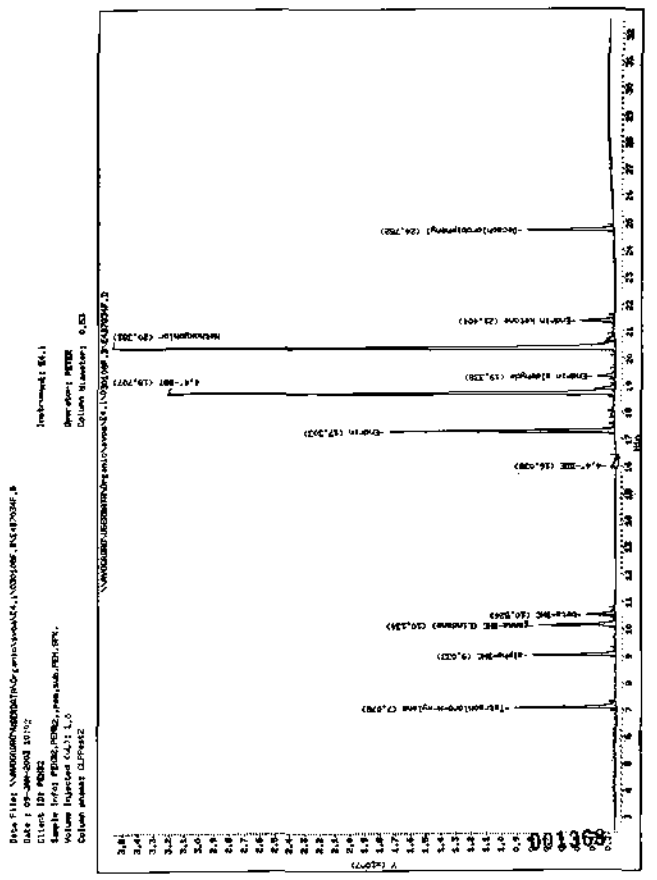
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.963	8.024	37458281	7569519	0.021	0.030		100.00(a)
Decachlorobiphenyl	24.744	26.597	43406995	17988849	0.042	0.041		100.00(a)
Chlordane (technical)	21.440	19.910	56859367	21191671	1.0	1.0	80.00- 320.00	100.00
	18.886	17.834	195859782	52662440	1.0	1.0	274.41- 336.41	294.41
	15.813	18.336	297666016	64941339	1.0	1.0	400.87- 440.87	430.87
			Average of Peak Amounts =		1.0	1.0		

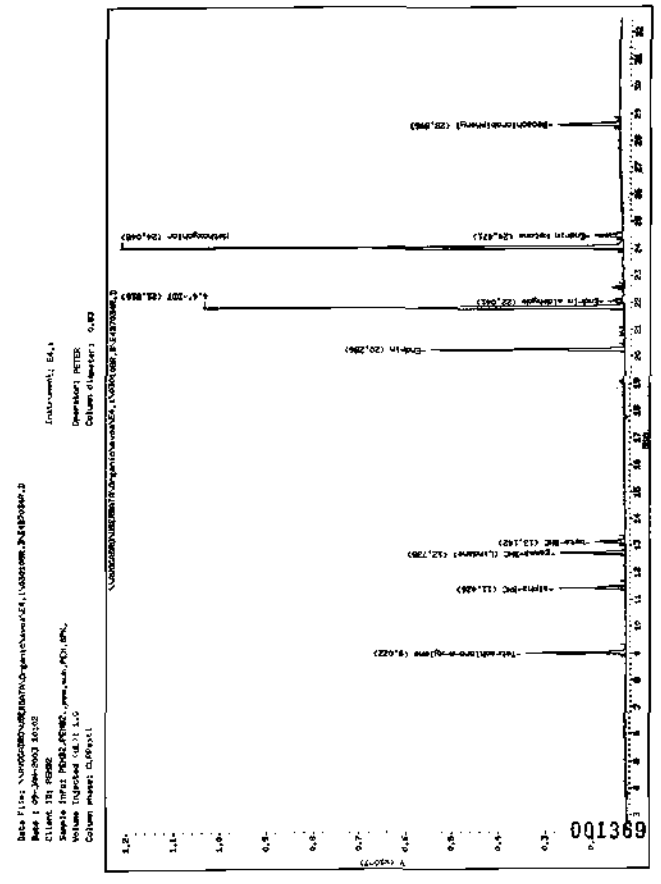
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

001367



001368



001369

Data File: B4B7034F.D
Report Date: 10-Jan-2003 13:37

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\B4.i\030108F.B\B4B7034F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\B4.i\030108R.B\B4B7034R.D
Inj Date : 09-JAN-2003 10:02
Sample Info: PEMB2,PEMB2,,pem.sub,PEM.SPK,
Misc Info :
Cal Date : 09-JAN-2003 12:15
Operator : PETER
Inst ID : B4.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\B4.i\030108F.B\e48081A-f.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\B4.i\030108R.B\e48081A-r.m
Sub List #1 : pem.sub
Sub List #2 : pem.sub
Col #1 Phase : CLPPest2
Col #2 Phase : CLPPest1

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.979	8.021	18135115	3549858	0.020	0.020		100.00
alpha-BHC	9.093	11.424	21323865	4748976	0.010	0.0098		100.00
gamma-BHC (Lindane)	10.134	13.774	10972923	5465244	0.0086	0.010		100.00
beta-BHC	10.514	13.163	8797186	3823373	0.010	0.011		100.00
4,4'-DDE	16.048	0.000	4555873	0	0.0090	0.00		100.00(m)
Endrin	17.503	20.136	59972139	19430144	0.048	0.048		100.00
4,4'-DDT	18.707	21.916	125101248	34354797	0.10	0.11		100.00
Endrin aldehyde	19.558	22.043	6920796	1013333	0.0060	0.0039		100.00(a)
Methoxychlor	20.583	24.048	153738440	42424549	0.38	0.35		100.00
Endrin ketone	21.404	24.478	10175183	2615383	0.0078	0.0078		100.00(m)
Decachlorobiphenyl	24.932	28.686	24838498	7239854	0.021	0.021		100.00

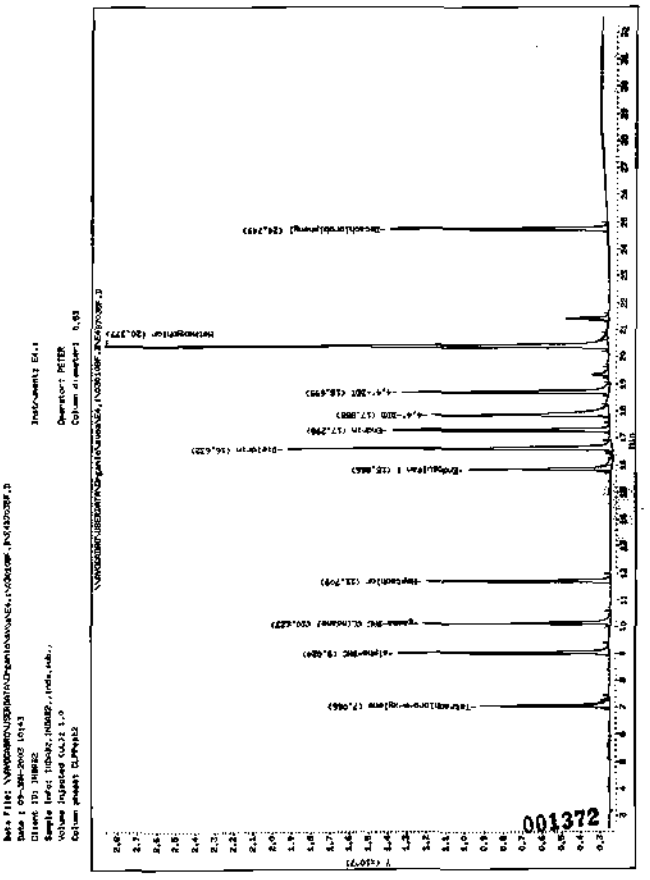
001370

Data File: B4B7034F.D
Report Date: 10-Jan-2003 13:37

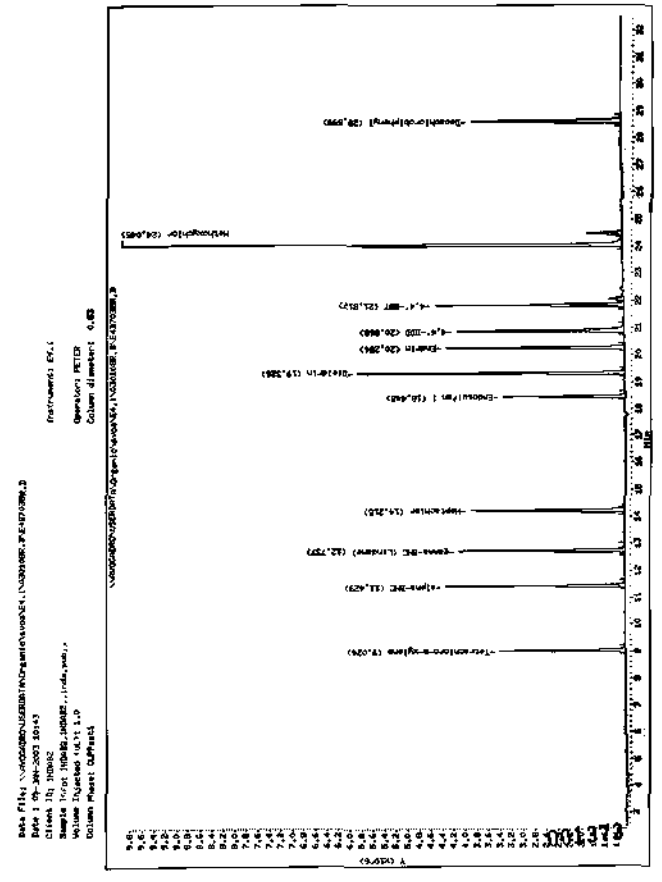
QC Flag Legend

B - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

001371



001372



001373

Data File: B4B7035F.D
Report Date: 10-Jan-2003 13:37

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\B4.i\030108F.B\B4B7035F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\B4.i\030108R.B\B4B7035R.D
Inj Date : 09-JAN-2003 10:43
Sample Info: INDAB2,INDAB2,,inda.sub,,
Misc Info :
Cal Date : 09-JAN-2003 12:15
Operator : PETER
Inst ID : *B4.i*
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\B4.i\030108F.B\e48081A-f.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\B4.i\030108R.B\e48081A-r.m
Sub List #1 : inda.sub
Sub List #2 : inda.sub
Col #1 Phase : CLPPest2
Col #2 Phase : CLPPest1

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.046	9.024	26433093	7878257	0.030	0.008		120.00[a]
alpha-BHC	9.904	11.429	42396608	10468434	0.030	0.030		100.00[a]
gamma-BHC (Lindane)	10.133	12.337	40313388	10077795	0.030	0.030		100.00[a]
Heptachlor	11.305	14.215	37713268	8853564	0.030	0.029		100.00[a]
Endosulfan I	15.964	18.448	33097287	9258758	0.031	0.030		100.00[a]
Dieldrin	16.422	19.328	70288134	16867935	0.061	0.049		100.00[a]
Endrin	17.398	20.394	64134043	11444654	0.036	0.024		100.00[a]
4,4'-DDD	17.855	20.666	53143581	12639068	0.061	0.048		100.00[a]
4,4'-DDT	18.484	21.817	51368848	13636930	0.043	0.040		100.00[a]
Methoxychlor	20.111	24.045	122549137	26863180	0.30	0.28		100.00[a]
Decachlorobiphenyl	24.749	26.519	47831908	13418383	0.047	0.049		100.00[a]

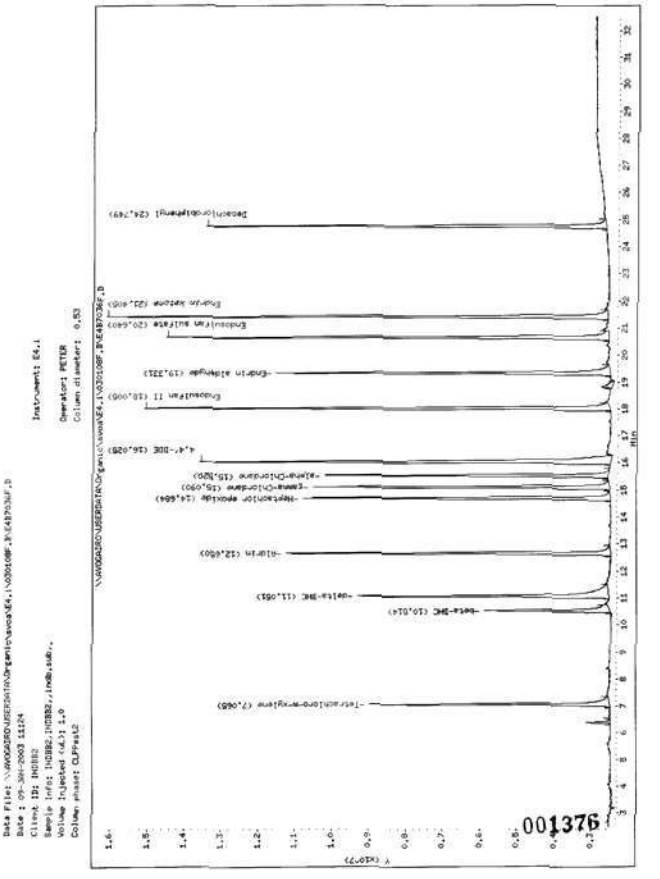
SE 1/10/03

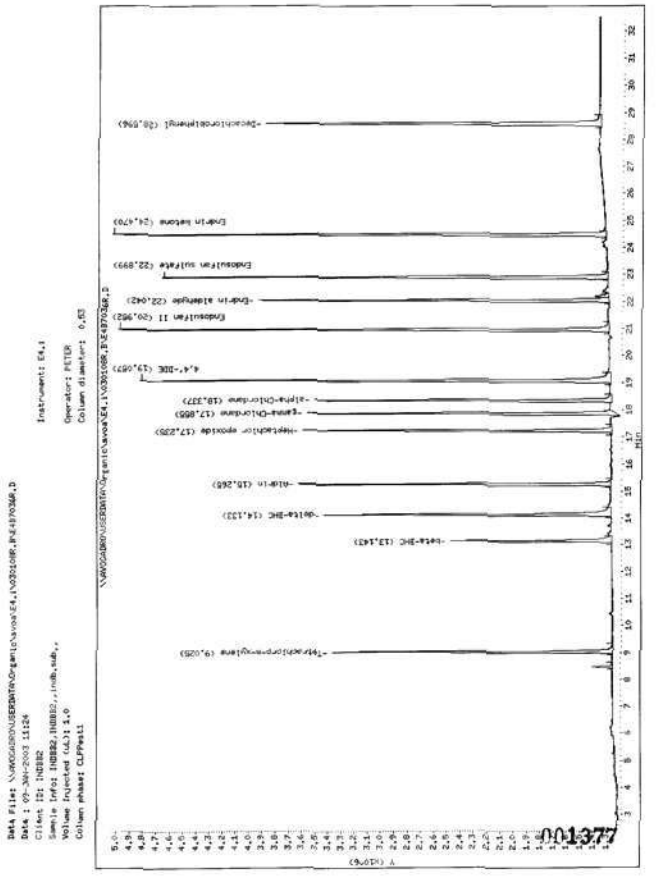
001374

Data File: E4B7035F.D
Report Date: 10-Jan-2003 13:37

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).





Data File: E4B7036F.D
Report Date: 10-Jan-2003 13:37

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\E4B7036F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\E4B7036R.D
Inj Date : 09-JAN-2003 11:24
Sample Info: INDBB2,INDBB2,,indb.sub,,
Misc Info :
Cal Date : 09-JAN-2003 14:49
Operator : PETER
Inst Id : E4.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\e48081A-f.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\e48081A-r.m
Sub List #1 : indb.sub
Sub List #2 : indb.sub
Col #1 Phase : CLPPest2
Col #2 Phase : CLPPest1

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

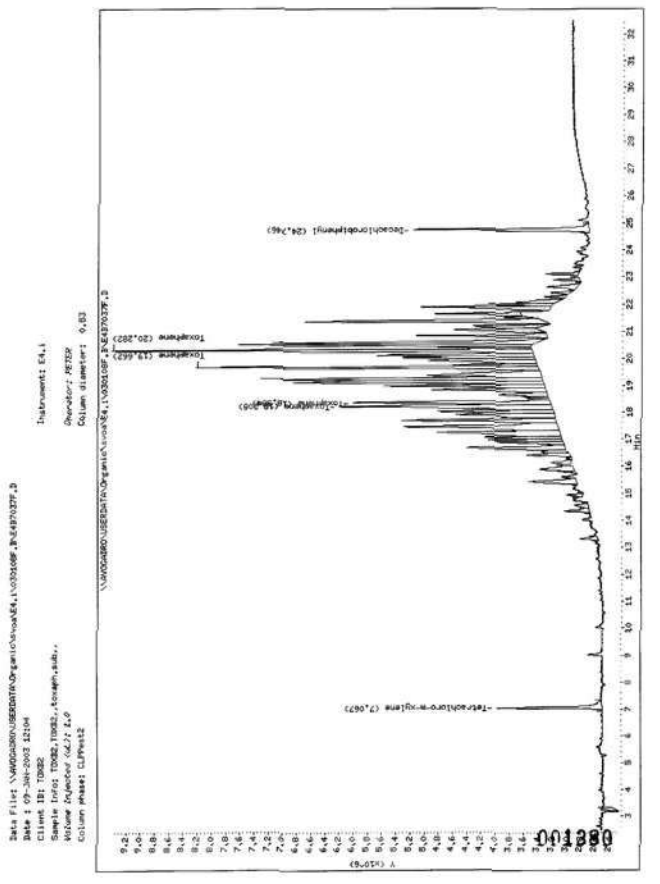
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.065	9.025	26301500	7497825	0.020	0.020		100.00(a)
Aldrin	12.650	15.265	36279095	8890761	0.020	0.020		100.00(a)
beta-BHC	10.514	13.143	16535894	4963423	0.020	0.020		100.00(a)
delta-BHC	11.051	14.133	36901684	8881593	0.020	0.020		100.00(a)
Heptachlor epoxide	14.484	17.235	34416423	9047058	0.020	0.020		100.00(a)
gamma-Chlordane	15.090	17.855	35305394	9228354	0.020	0.019		100.00(a)
alpha-Chlordane	15.520	18.337	32769306	8838203	0.020	0.020		100.00(a)
4,4'-DDE	16.025	19.057	61143659	15186983	0.039	0.039		100.00(a)
Endosulfan II	18.000	20.952	56316607	14607578	0.040	0.040		100.00(a)
Endrin aldehyde	19.331	22.042	42698285	10716775	0.039	0.038		207.00(a)
Endosulfan sulfate	20.640	22.899	52722395	13347923	0.040	0.039		100.00(a)
Endrin ketone	21.405	24.470	58369809	14549969	0.040	0.040		100.00(a)
Decachlorobiphenyl	24.749	28.596	46737976	13455670	0.040	0.040		100.00(a)

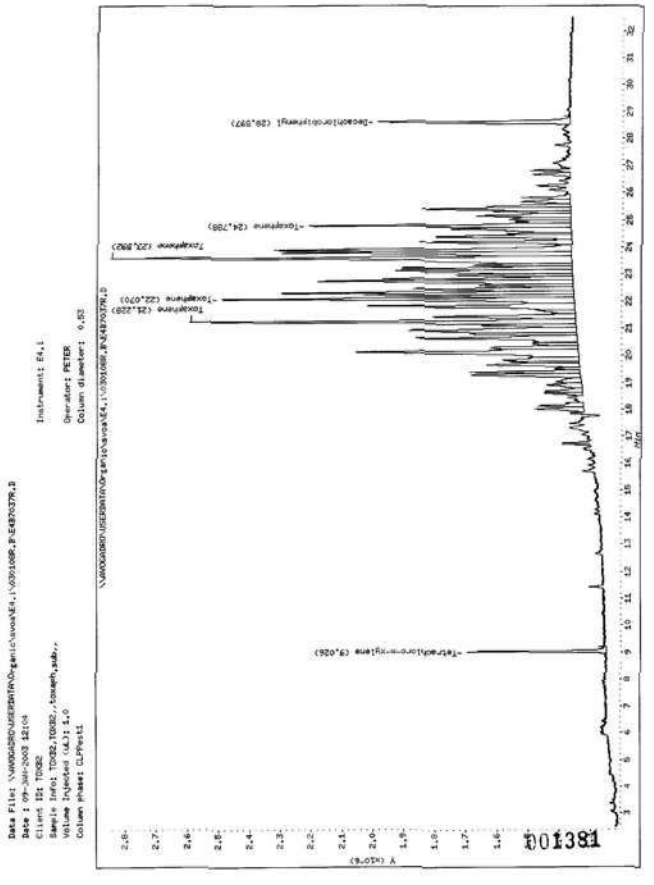
SZ 1/10/03

Data File: B4B7036F.D
Report Date: 10-Jan-2003 13:37

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).





Data File: E4B7037F.D
Report Date: 10-Jan-2003 13:37

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\E4B7037F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\E4B7037R.D
Inj Date : 09-JAN-2003 12:04
Sample Info: TOXB2,TOXB2,,toxaph.sub,,
Misc Info :
Cal Date : 09-JAN-2003 14:49
Operator : PETER
Inst ID : E4.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\e48081A-f.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\e48081A-r.m
Sub List #1 : toxaph.sub
Sub List #2 : toxaph.sub
Col #1 Phase : CLPPest2
Col #2 Phase : CLPPest1

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	7.067	9.026	6308927	1635875	0.0048	0.0044		100.00(a)
Decachlorobiphenyl	24.746	28.597	11882130	3298877	0.010	0.0097		100.00(a)
Toxaphene	18.308	21.328	19922843	7281602	0.44	0.46	80.00- 120.00	100.00(a)
	18.354	22.070	17595595	6590177	0.44	0.46	73.27- 113.27	93.27(a)
	19.662	23.592	22163324	11101438	0.42	0.47	141.73- 181.73	161.73(a)
	20.282	24.788	27812510	4488801	0.43	0.46	178.43- 218.43	198.43(a)
			Average of Peak Amounts =		0.43	0.46		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

SS 1/10/03

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLK4A

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: MB-4929

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E4B7023F

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/27/02

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 01/09/03

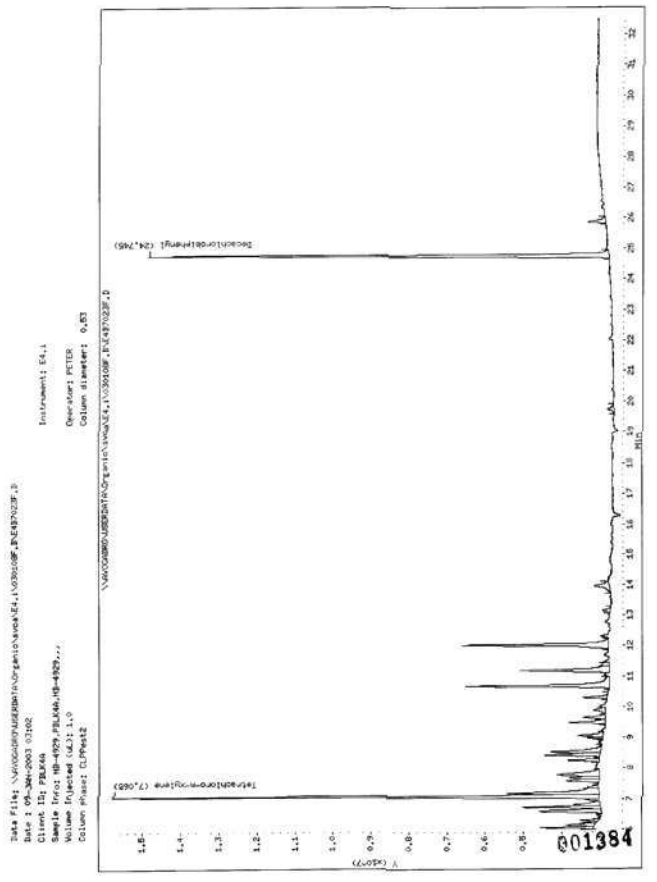
Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

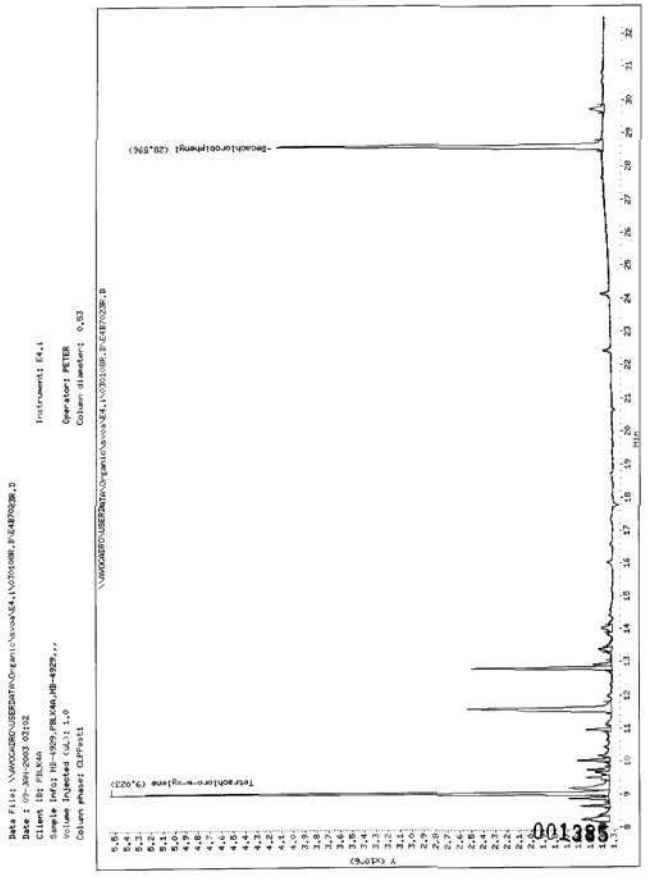
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-36-3	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U

FORM I PEST

001383



001384



001385

Data File: E4B7023F.D
Report Date: 10-Jan-2003 12:50

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\E4B7023F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\E4B7023R.D
Inj Date : 09-JAN-2003 03:02
Sample Info: MB-4929,PBLK4A,MB-4929,,,
Misc Info :
Cal Date : 09-JAN-2003 14:49
Operator : PETER
Inst ID : E4.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\e48081A-f.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\e48081A-r.m
Sub List #1 : 8081a.sub
Sub List #2 : 8081a.sub
Col #1 Phase : CLPPest2
Col #2 Phase : CLPPest1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weigth of sample extracted (g)
M	0.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
TetraChloro-m-xylene	7.065	9.023	46905456	14010460	12	13		100.00
DecaChlorobiphenyl	24.745	28.536	49525675	14019368	14	14		100.00

SZ 1/10/03

001386

FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: P4ALCS

Lab Name: MITKEM CORPORATION   Contract:

Lab Code: MITKEM   Case No.:   SAS No.:   SDG No.: A1905

Matrix: (soil/water) SOIL   Lab Sample ID: LCS-4929

Sample wt/vol: 30.0 (g/mL) G   Lab File ID: E4B7024F

% Moisture: 0   decanted: (Y/N) N   Date Received: ________

Extraction: (SepF/Cont/Sonc) SONC   Date Extracted: 12/27/02

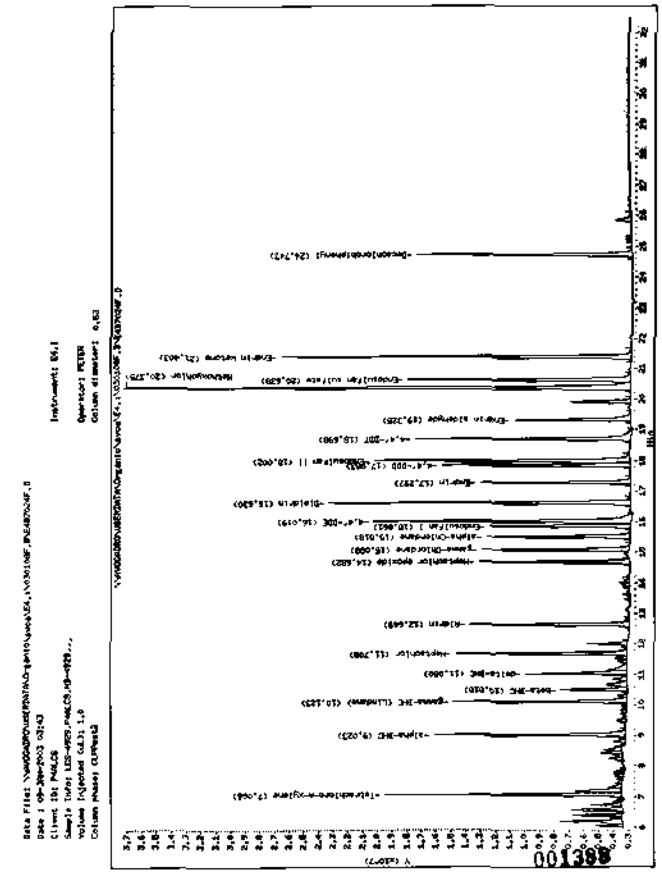
Concentrated Extract Volume: 5000 (uL)   Date Analyzed: 01/09/03

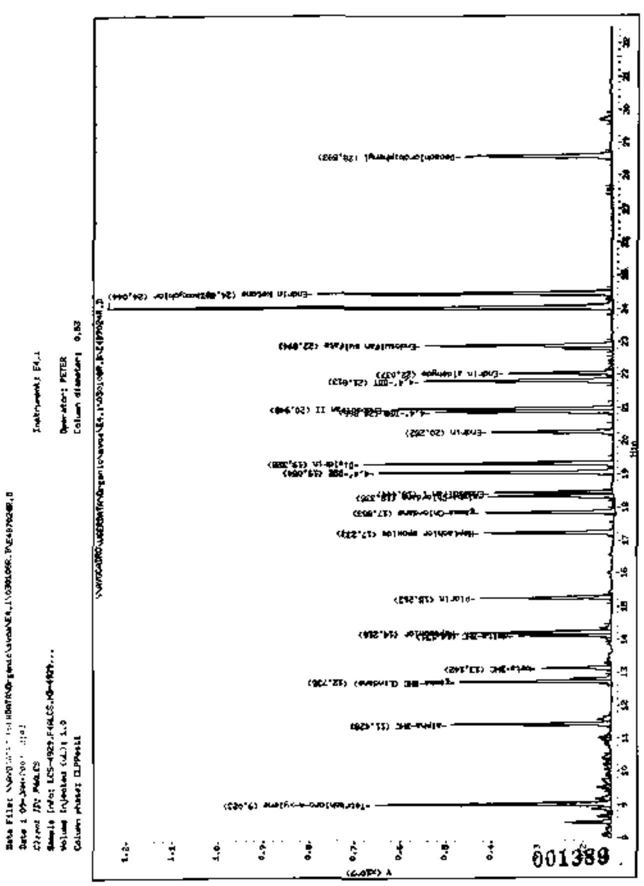
Injection Volume: 1.0 (uL)   Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y   pH: ___   Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	7.2	
319-85-7	beta-BHC	7.4	
319-86-8	delta-BHC	5.1	
58-89-9	gamma-BHC (Lindane)	7.5	
76-44-8	Heptachlor	7.9	
309-00-2	Aldrin	7.6	
1024-57-3	Heptachlor epoxide	7.6	
959-98-8	Endosulfan I	7.7	
60-57-1	Dieldrin	15	
72-55-9	4,4'-DDE	16	
72-20-8	Endrin	10	
33213-65-9	Endosulfan II	17	
72-54-8	4,4'-DDD	14	
1031-07-8	Endosulfan sulfate	15	
50-29-3	4,4'-DDT	17	
72-43-5	Methoxychlor	82	
53494-70-5	Endrin ketone	22	
7421-36-3	Endrin aldehyde	11	
5103-71-9	alpha-Chlordane	7.8	
5103-74-2	gamma-Chlordane	7.5	
8001-35-2	Toxaphene	170	U

FORM I PEST





Data File: E4B7024F.D
Report Date: 10-Jan-2003 12:50

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\E4B7024F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\E4B7024R.D
Inj Date : 09-JAN-2003 03:43
Sample Info: LCS-4929,P4ALCS,MB-4929,,,
Misc Info :
Cal Date : 09-JAN-2003 14:49
Operator : PETER
Inst ID : E4.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\e48081A-f.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\e48081A-r.m
Sub List #1 : 8081a.sub
Sub List #2 : 8081a.sub
Col #1 Phase : CLPPest2
Col #2 Phase : CLPPest1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weigth of sample extracted (g)
M	0.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Tetrachloro-m-xylene	7.066	[illegible]	[illegible]	[illegible]	16	16		100.00
Decachlorobiphenyl	[illegible]	[illegible]	[illegible]	[illegible]	17	18		100.00
alpha-BHC	9.023	[illegible]	[illegible]	[illegible]	[illegible]	7.2		100.00
gamma-BHC (Lindane)	10.183	12.755	[illegible]	[illegible]	7.5	[illegible]		100.00
Heptachlor	11.708	[illegible]	[illegible]	[illegible]	[illegible]	8.0		100.00
Aldrin	[illegible]	15.265	[illegible]	[illegible]	7.6	[illegible]		100.00
beta-BHC	[illegible]	[illegible]	[illegible]	[illegible]	7.4	[illegible]		100.00
delta-BHC	11.050	[illegible]	[illegible]	[illegible]	5.1	5.1		100.00
Heptachlor epoxide	[illegible]	[illegible]	[illegible]	[illegible]	7.6	8.0		100.00
Endosulfan I	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.7		100.00(B)
gamma-Chlordane	[illegible]	[illegible]	[illegible]	[illegible]	7.8	[illegible]		100.00
alpha-Chlordane	[illegible]	[illegible]	[illegible]	[illegible]	7.8	[illegible]		100.00
4,4'-DDE	[illegible]	19.054	[illegible]	[illegible]	17	[illegible]		100.00
Dieldrin	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16		100.00

SF 1/10/03

Data File: E4B7024F.D
Report Date: 10-Jan-2003 12:50

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Endrin	17.297	20.252	39981956	10062302	11	10		100.00
4,4'-DDD	17.853	20.866	55670669	14169318	14	15		100.00
Endosulfan II	18.002	20.948	75726796	18823545	18	17		100.00
4,4'-DDT	18.698	21.813	64322843	15495452	17	17		100.00
Endrin aldehyde	19.325	22.037	34908424	9029563	11	11		100.00
Endosulfan sulfate	20.638	22.894	63357167	15690544	16	15		100.00
Methoxychlor	20.976	24.044	149883256	42767500	82	83		100.00
Endrin ketone	21.403	24.447	95866478	24454776	22	22		100.00(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

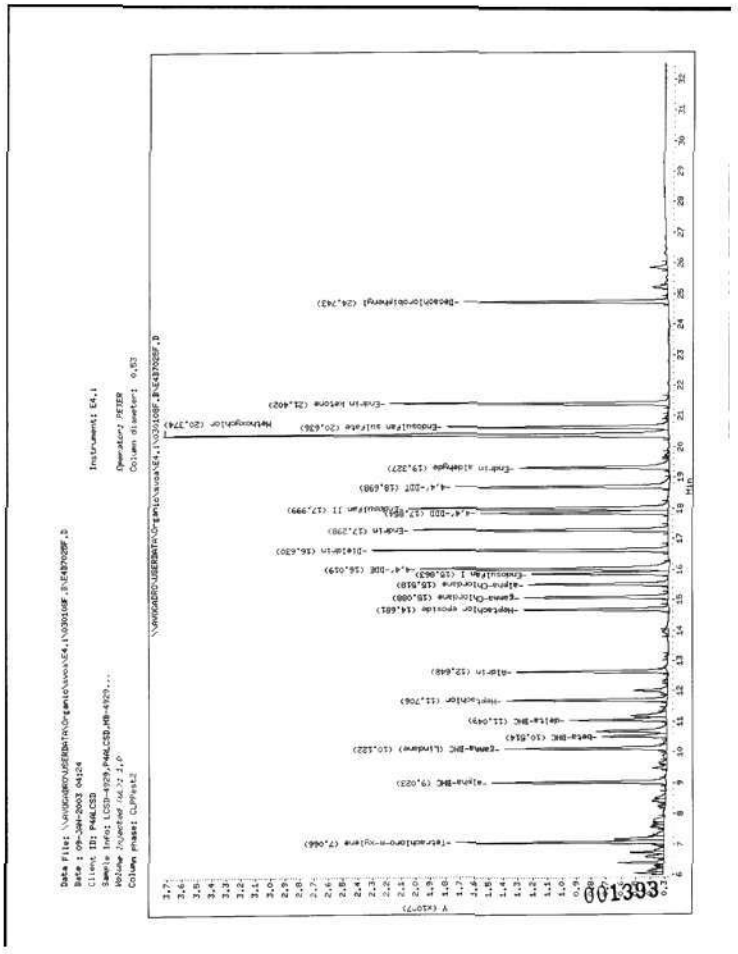
FORM 1
PESTICIDE ORGANICS ANALYSIS DATA SHEET

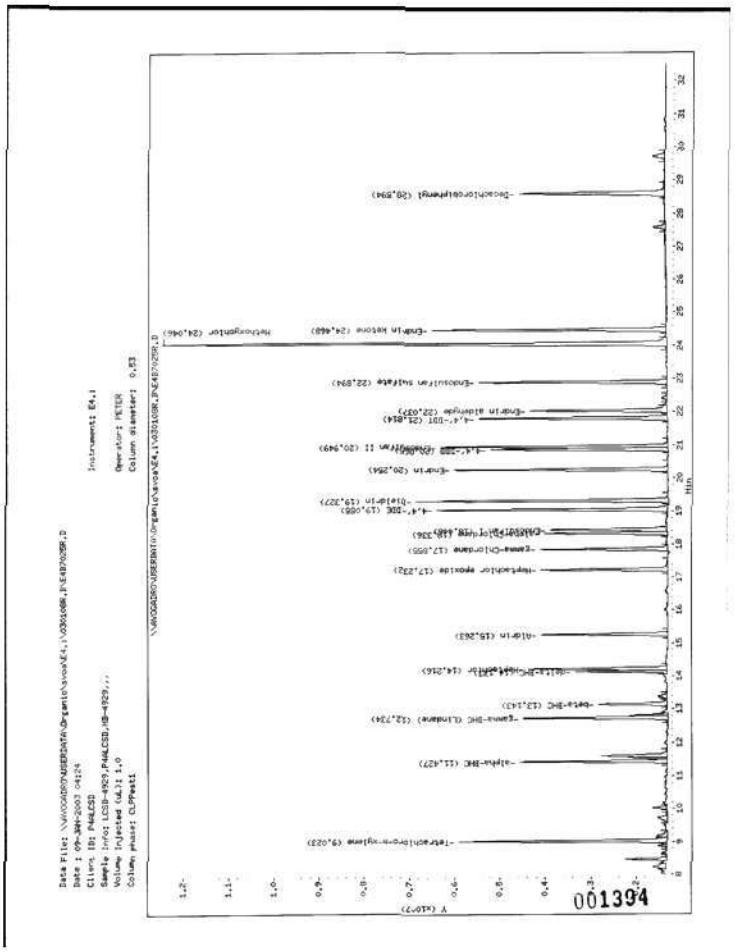
CLIENT SAMPLE NO.
P4ALCSD

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: LCSD-4929
Sample wt/vol: 30.0 (g/mL) G Lab File ID: E4B7025F
% Moisture: 0 decanted: (Y/N) N Date Received: _____
Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/27/02
Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/09/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	6.8	
319-85-7	beta-BHC	7.5	
319-86-8	delta-BHC	4.9	
58-89-9	gamma-BHC (Lindane)	7.1	
76-44-8	Heptachlor	7.7	
309-00-2	Aldrin	7.2	
1024-57-3	Heptachlor epoxide	7.6	
959-98-8	Endosulfan I	7.8	
60-57-1	Dieldrin	16	
72-55-9	4,4'-DDE	16	
72-20-8	Endrin	18	
33213-65-9	Endosulfan II	17	
72-54-8	4,4'-DDD	15	
1031-07-8	Endosulfan sulfate	16	
50-29-3	4,4'-DDT	17	
72-43-5	Methoxychlor	82	
53494-70-5	Endrin ketone	18	
7421-36-3	Endrin aldehyde	14	
5103-71-9	alpha-Chlordane	7.7	
5103-74-2	gamma-Chlordane	7.2	
8001-35-2	Toxaphene	170	U

FORM I PEST





Data File: E4B7025F.D
Report Date: 10-Jan-2003 12:50

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\E4B7025F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\E4B7025R.D
Inj Date : 09-JAN-2003 04:24
Sample Info: LCSD-4929,P4ALCSD,MB-4929,,,
Misc Info :
Cal Date : 09-JAN-2003 14:49
Operator : PETER
Inst ID : E4.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108F.B\e48081A-f.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E4.i\030108R.B\e48081A-r.m
Sub List #1 : 8081a.sub
Sub List #2 : 8081a.sub
Col #1 Phase : CLPPest2
Col #2 Phase : CLPPest1

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000	Correction factor
Vt	5000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weigth of sample extracted (g)
M	0.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Tetrachloro-m-xylene	7.066	9.033	49763385	15317460	12	14		100.00
Decachlorobiphenyl	24.743	28.594	57197714	16220582	16	16		100.00
alpha-BHC	9.023	11.427	44120453	10570144	7.1	8.8		100.00
gamma-BHC (Lindane)	10.133	12.734	41965567	11304458	7.1	7.5		100.00
Heptachlor	11.706	14.216	45165432	11504915	7.7	7.7		100.00
Aldrin	12.648	15.263	39444420	10084134	7.2	7.4		100.00
beta-BHC	10.514	13.143	18689966	5894330	7.5	7.9		100.00
delta-BHC	11.049	14.133	27548723	8955185	4.9	5.1		100.00
Heptachlor epoxide	14.681	17.232	38390460	10538697	7.6	7.8		100.00
Endosulfan I	15.863	18.446	37435576	9480118	8.0	7.8		100.00(R)
gamma-Chlordane	15.088	17.855	40357007	10499043	7.5	7.2		100.00
alpha-Chlordane	15.518	18.336	39053189	10278112	7.8	7.7		100.00
4,4'-DDE	16.019	19.055	79681337	18898781	17	16		100.00
Dieldrin	16.630	19.327	79194803	20358847	16	16		100.00

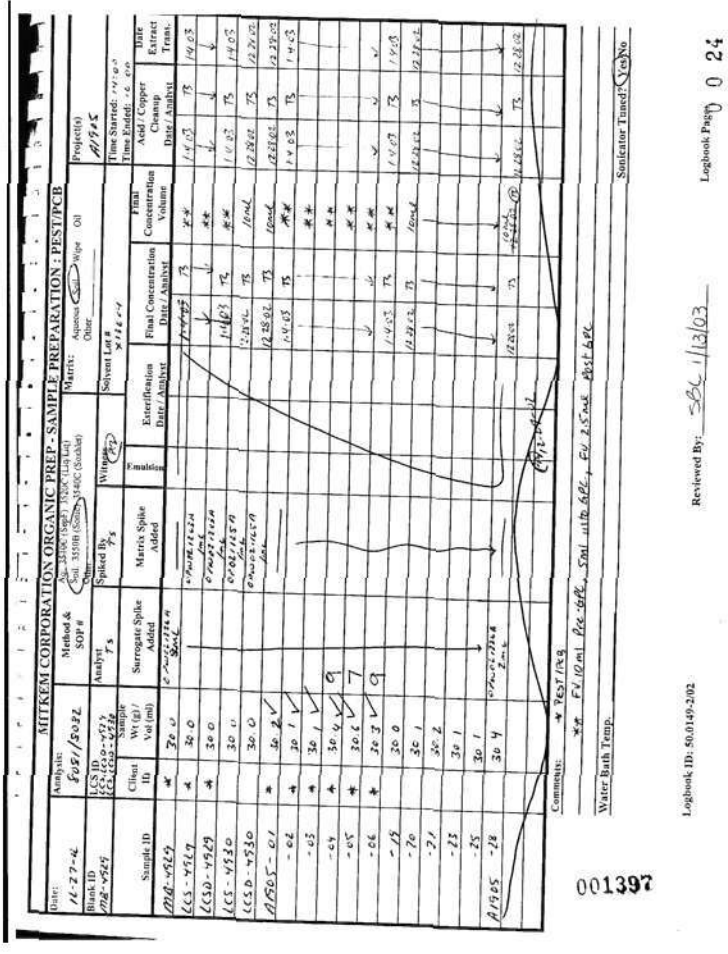
SZ 1/10/03

Data File: E4B7025F.D
Report Date: 10-Jan-2003 12:50

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Endrin	17.298	20.256	67499262	17371720	18	18		100.00
4,4'-DDD	17.856	20.865	56723608	14201902	15	15		100.00
Endosulfan II	17.999	20.949	78224330	19238472	18	17		100.00
4,4'-DDT	19.698	21.914	65580168	15578211	17	17		100.00
Endrin aldehyde	19.927	22.837	47340919	12373274	14	15		100.00
Endosulfan sulfate	20.636	22.894	54864889	15893914	16	16		100.00
Methoxychlor	20.374	24.046	149766411	43367718	82	84		100.00
Endrin ketone	21.402	24.468	77064976	19451095	18	18		100.00

QC Flag Legend

R - Spike/Surrogate failed recovery limits.



Percent Moisture and Percent Solids Report

Mitkem Sample ID	*Client Sample ID*	*Analyzed*	*Percent Moisture*	*Percent Solids*	*Validated*
A1905-04A	*AOC3SSTB4902*	12/31/2002	9	91	Yes
A1905-05A	*AOC3SSTB5312*	12/31/2002	7	93	Yes
A1905-06A	*AOC3SSTB5402*	12/31/2002	9	91	Yes
A1905-11A	*AOC3SSD5A45*	12/31/2002	9	91	Yes
A1905-12A	*AOC3SSD5B45*	12/31/2002	10	90	Yes
A1905-13A	*AOC3SSTB4945*	12/31/2002	11	89	Yes
A1905-15A	*AOC5SSTB6267*	12/31/2002	43	57	Yes
A1905-17A	*AOC7SSTB6578*	12/31/2002	43	57	Yes
A1905-19A	*AOC5ASSTB6956*	12/31/2002	11	89	Yes
A1905-20A	*AOC5ASSD7A56*	12/31/2002	8	92	Yes
A1905-21A	*AOC5ASSD7B56*	12/31/2002	8	92	Yes
A1905-22A	*AOC6SSTB7167*	12/31/2002	37	63	Yes
A1905-23A	*AOC5ASSTB7002*	12/31/2002	7	93	Yes
A1905-24A	*AOC5ASSTB6978*	12/31/2002	49	51	Yes
A1905-25A	*AOC5ASSTB68015*	12/31/2002	7	93	Yes
A1905-27A	*AOC2TB5512*	12/31/2002	8	92	Yes
A1905-28A	*AOC2TB24*	12/31/2002	9	91	Yes
A1905-29A	*AOC2TB5802*	12/31/2002	5	95	Yes
A1905-30A	*AOC2TB57675*	12/31/2002	11	89	Yes

MITKEM CORPORATION EXTRACTS TRANSFER LOGBOOK: PESTICIDES/PCB ANALYSIS

Date Transferred from Prep Lab	Lab ID	Transferred by	Received by	Storage Location	Comments
1-3-02	GPC020102-DB1	PR	~7	R6	
↓	-BMS1	↓			
1-7-02	GPC020102-ARDC1	PR			
1-3-03	MB-4932	PR			
	LCS-4932				
	LCSD-4932				
	LCS-4996				
	LCSD-4996				
	MB-4986				
	LCS-4986				
	LCSD-4986				
↓	A1920 01	↓	↓	↓	
1-3-03	B0002 01	PB	~7	KL	
1.4.03	MB 4929	B	SZ	R6	
	LCS 4929				
	LCSD 4929				
	A1905 001				
	002				
	003				
	004				
↓	↓ 005	↓			
1.4.03	A1905 006	B			
1.6.03	MB-4829	PR			
	LFB-4829				
	LCS-4829				
	A1862 - 02				
	-02MS				
	-02MSD				
	-05				
	-10				
	-11				
↓	-12	↓	↓	↓	
1.6.03	A1862 -13	PR	SZ	R6	

Logbook ID: 60.0132-1/02

Reviewed by SZ 1/10/03

Logbook page 0002 001399

MITKEM CORPORATION - PEST/PCB RUN LOGBOOK: INSTRUMENT E4

Sequence D30108 Method CLP88 ICAL Date 1/8

Date	Sample ID		Client ID	File Name		Dilution	F	R	Comments	Analyst
1/8	PRIME			E4B70	04					~7
	PEM	B1		E4B70	05		↑	↑	Stop, change copper tube	~7
	PEM	B1		E4B70	07		V	✓	ICAL -ok SZ 01/09/03	~7
	INDAB	L1			08					SZ
		L2			09					
		L3			10					
	↓	L4			11					
	INDAB	L5			12					
	INDBB	L1			13					
		L2			14					
		L3			15					
	↓	L4			16					
↓	INDBB	L6			17					↓
1/8/03	TOXA	L3			18					
1/9/03	TCB	L3			19				↓	SZ
	INDBSS				20	↑↓	Recal	Rev	EA↓	
	INDASS				21		✓	✓		
	PIBLK				22					
	MB-49	29			23			✓		
	LCS-49	29			24			✓	Endos3 ↑ no Endos3 in samples	
	LCSD-49	29			25			✓	Endos3 ↑	
	A1905	-01			26			✓	H3	
		02			27			✓		
		03			28			✓		
		04			29			✓		
	↓	05			30			✓		
	A1905-	06			31			✓		
	PIBLK				32					
↓	PEM	B2		↓	34		↑	↑	do not need to report	↓
1/9/03	INDA	B2		E4B70	35		V	✓		SZ

Standard ID's

Comments

Reviewed by SZ 1/9/03

001400

Logbook ID 60.0196-1/02

Logbook Page # 0072

MITKEM CORPORATION - PEST/PCB RUN LOGBOOK: INSTRUMENT E4

Sequence Method ICAL Date

Date	Sample ID		Client ID	File Name		Dilution	F	R	Comments	Analyst
1/9/03	INDB	B2		E4B70	36		✓	✓		SZ
↓	TOX	B2		↓	37		det			↓
↓	PIBLK			E4B70	38					SZ
1/9/03	ResC	B1		E4B70	50					
	PEM	B1			51					
	AR1660				52					
	1221				53					
	1232				54					
↓	1242				55					
1/9/03	1248				56					
1/10/03	1254				57					
	1268				58					
	1262	↓			59					
	Toxaph	B1			60					
	INDAL				61					
	INDBL				62					
	IND AM				63					
	INDBM				64					
	INDAH				65					
	INDBH	↓			66					
↓	PIBLK	B1		↓	67					↓
1/10/03	PEM	B2		E4B70	68					SZ

Standard ID's

Comments

Reviewed by SBL 1/13/03

Logbook ID 60.0196-1/02

Logbook Page # 0073 001401

MITKEM CORPORATION: Sample Receipt Tracking Logbook

Project	Date Received	Client	Storage Location	#'s/ Analyst/ Date In	#'s/ Analyst/ Date Out	#'s/ Analyst/ Date In	#'s/ Analyst/ Date Out	#'s/ Analyst/ Date In	#'s/ Analyst/ Date Out	#'s/ Analyst/ Date In	Dispose After	Date Disposed
A1901	12-21-02	TAMS	SUB C5	01-04-TCL+ 01-12-	1-4-04 12/24	1-4-04 12/24	1-4 12-23-02	1-4 12-23-02			2-21-03	
A1902	12-21-02	TETRA TECH	COA 01-15 I F100 2 H3	01-08, 10-15	1-8,10-15 SP	Empty SP					3-21-03	
A1903	12/23	Tyree	B2 metals M4	12/23 01-06 01-06	1-6 BH 12/24	1-6 BH 12/24						
A1904	12/23	D+B	B1 VOA	12/23 01-06	[illegible]	Empty						
A1905	12/23	HRP	M3 B1 B2 VOA		1-3,6 7-8,10	1-3,6 7-8,10	[illegible]	Empty	[illegible]	[illegible]	[illegible]	EN [illegible]

Reviewed By: SBL 1/13/03

Logbook ID 30.0187-1/02

Logbook page

001402

MITKEM CORPORATION

* PCB Organics*

Total - SVOP

001403

FORM 2
WATER PCB SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

GC Column(1): RTXCLPPEST 2 ID: 0.53 (mm) GC Column(2): RTXCLPPEST ID: 0.53 (mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	BBLK1B	80	73	81	78			0
02	B1BLCS	85	74	87	75			0
03	B1BLCSD	77	67	82	71			0
04	AOC3BB3	79	74	95	84			0
05	AOC3BB4	84	78	88	78			0
06	AOC5B7	67	63	81	72			0
07	BBLK1D	81	76	95	87			0
08	B1DLCS	103	92	107	98			0
09	B1DLCSD	104	93	107	99			0
10	AOC2B6	101	94	88	80			0
11	BBLK1E	78	74	89	81			0
12	B1ELCS	98	89	100	92			0
13	B1ELCSD	88	80	89	81			0
14	AOC5ASSTB695	92	88	62	56			0
15	AOC5ASSD7A56	91	87	64	58			0
16	AOC5ASSD7B56	87	84	61	55			0
17	AOC5ASSTB700	90	87	79	72			0
18	AOC5ASSTB680	89	85	93	86			0
19	BBLK1A	93	86	90	78			0
20	B1ALCS	85	76	95	82			0
21	B1ALCSD	108	95	100	87			0
22	AOC5WTB62WRS	76	69	66	58			0
23	AOC7WTB65GWR	68	62	58	52			0
24	BBLK1F	0*	0*	0*	0*			4
25	AOC5WTB62W	0*	0*	0*	0*			4
26	AOC7WTB65GW	0*	0*	0*	0*			4
27								
28								
29								
30								

ADVISORY
QC LIMITS
S1 (TCX) = Tetrachloro-m-xylene (29-158)
S2 (DCB) = Decachlorobiphenyl (30-164)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

page 1 of 1 FORM II PCB

1404

FORM 2
SOIL PCB SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

GC Column(1): RTXCLPPEST 2 ID: 0.53 (mm) GC Column(2): RTXCLPPEST ID: 0.53 (mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	B1CLCS	76	76	70	63			0
02	B1CLCSD	91	96	82	76			0
03	AOC5ASSTB695	88	83	81	76			0
04	AOC5ASSD7A56	88	83	81	76			0
05	AOC5ASSD7B56	90	85	83	78			0
06	AOC5ASSTB700	86	81	80	76			0
07	AOC5ASSTB680	102	98	79	84			0
08	AOC2TB24	99	92	87	83			0
09	BBLK1C	99	94	97	93			0
10	AOC3SSTB5402	82	78	85	80			0
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS
S1 (TCX) = Tetrachloro-m-xylene (42-147)
S2 (DCB) = Decachlorobiphenyl (29-155)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

page 1 of 1 FORM II PCB

001405

FORM 2
SOIL PCB SURROGATE RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

GC Column(1): RTXCLPPEST 2 ID: 0.53 (mm) GC Column(2): RTXCLPPEST ID: 0.53 (mm)

	CLIENT SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	B1CLCS	76	76	70	63			0
02	B1CLCSD	91	96	82	76			0
03	AOC5ASSTB695	88	83	81	76			0
04	AOC5ASSD7A56	88	83	81	76			0
05	AOC5ASSD7B56	90	85	83	78			0
06	AOC5ASSTB700	86	81	80	76			0
07	AOC5ASSTB680	102	98	79	84			0
08	AOC2TB5624	99	92	87	83			0
09	BBLK1C	99	94	97	93			0
10	AOC3SSTB5402	82	78	85	80			0
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS
S1 (TCX) = Tetrachloro-m-xylene (42-147)
S2 (DCB) = Decachlorobiphenyl (29-155)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

page 1 of 1 FORM II PCB

001405R
2/4/03

FORM 3
WATER PCB LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: B1ALCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Aroclor-1016	2.5		2.0	80	45-162
Aroclor-1260	2.5		2.2	88	54-159

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	2.5	2.1	84	5	40	45-162
Aroclor-1260	2.5	2.2	88	0	40	54-159

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM III PCB

001406

FORM 3
WATER PCB LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: B1BLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Aroclor-1016	10		8.5	85	62-155
Aroclor-1260	10		8.0	80	56-173

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	10	8.0	80	6	40	62-155
Aroclor-1260	10	7.4	74	8	40	56-173

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM III PCB

001407

FORM 3
WATER PCB LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: B1DLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Aroclor-1016	10		9.4	94	45-162
Aroclor-1260	10		9.7	97	54-159

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	10	9.4	94	0	40	45-162
Aroclor-1260	10	9.8	98	1	40	54-159

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM III PCB

001408

FORM 3
WATER PCB LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: B1ELCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Aroclor-1016	33		31	94	45-162
Aroclor-1260	33		32	97	54-159

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor-1016	33	30	91	3	40	45-162
Aroclor-1260	33	30	91	6	40	54-159

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM III PCB

001409

FORM 3
SOIL PCB LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix Spike - Sample No.: B1CLCS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % RBC #	QC. LIMITS RBC.
Aroclor-1016	330		230	70	62-155
Aroclor-1260	330		230	70	56-173

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % RBC #	% RPD #	QC LIMITS RPD	QC LIMITS RBC.
Aroclor-1016	330	270	82	16	40	62-155
Aroclor-1260	330	280	85	19	40	56-173

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 2 outside limits
Spike Recovery: 0 out of 4 outside limits

COMMENTS: _____

FORM III PCB

001410

FORM 4
PCB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.
BBLK1D

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab Sample ID: MB-4911 Lab File ID: E1D8376F

Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc) SEPF

Sulfur Cleanup (Y/N) Y Date Extracted: 12/24/02

Date Analyzed (1): 12/31/02 Date Analyzed (2): 12/31/02

Time Analyzed (1): 1255 Time Analyzed (2): 1255

Instrument ID (1): E1 Instrument ID (2): E1

GC Column (1): RTXCLPPEST 2 ID: 0.53(mm) GC Column (2): RTXCLPPEST ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	B1DLCS	LCS-4911	12/31/02	12/31/02
02	B1DLCSD	LCSD-4911	12/31/02	12/31/02
03	A0C2B6	A1905-26C	12/31/02	12/31/02
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

page 1 of 1

FORM IV PCB

001411

FORM 4
PCB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.
BBLK1F

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab Sample ID: MB-4924 Lab File ID: E1D8510F

Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc) SEPF

Sulfur Cleanup (Y/N) N Date Extracted: 12/26/02

Date Analyzed (1): 01/14/03 Date Analyzed (2): 01/14/03

Time Analyzed (1): 0938 Time Analyzed (2): 0938

Instrument ID (1): E1 Instrument ID (2): E1

GC Column (1): RTXCLPPEST 2 ID: 0.53(mm) GC Column (2): RTXCLPPEST ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	A0C5NTB62M	A1905-16D	01/14/03	01/14/03
02	A0C7WTB65M	A1905-18D	01/14/03	01/14/03
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: EPH extracts exchanged to hexane. RC 1/15/03

page 1 of 1

FORM IV PCB

001412

FORM 4
PCB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.
BBLK1C

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab Sample ID: MB-4929 Lab File ID: E1D8432F

Matrix (soil/water) SOIL Extraction: (SepF/Cont/Sonc) SEPF

Sulfur Cleanup (Y/N) Y Date Extracted: 12/27/02

Date Analyzed (1): 01/06/03 Date Analyzed (2): 01/06/03

Time Analyzed (1): 1243 Time Analyzed (2): 1243

Instrument ID (1): E1 Instrument ID (2): E1

GC Column (1): RTXCLPPEST 2 ID: 0.53(mm) GC Column (2): RTXCLPPEST ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	A0C5ASSTB69S	A1905-19A	12/30/02	12/30/02
02	A0C5A3SD7A5G	A1905-20A	12/30/02	12/30/02
03	A0C5ASS27B5G	A1905-21A	12/30/02	12/30/02
04	A0C5A3STM700	A1905-23C	12/30/02	12/30/02
05	A0C5ASSTB680	A1905-25C	12/31/02	12/31/02
06	A0C2TB24	A1905-28A	12/31/02	12/31/02
07	A0C1SSTB5402	A1905-06C	01/06/03	01/06/03
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

page 1 of 1

FORM IV PCB

001413

FORM 4
PCB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

BBLK1C

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab Sample ID: MB-4929 Lab File ID: E1D8432F

Matrix (soil/water) SOIL Extraction: (SepF/Cont/Sonc) SONC

Sulfur Cleanup (Y/N) Y Date Extracted: 12/27/02

Date Analyzed (1): 01/06/03 Date Analyzed (2): 01/06/03

Time Analyzed (1): 1243 Time Analyzed (2): 1243

Instrument ID (1): E1 Instrument ID (2): E1

GC Column (1): RTXCLPPEST 2 ID: 0.53(mm) GC Column (2): RTXCLPPEST ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	AOC5ASSTB695	A1905-19A	12/30/02	12/30/02
02	AOC5ASSD7A56	A1905-20A	12/30/02	12/30/02
03	AOC5ASSD7B56	A1905-21A	12/30/02	12/30/02
04	AOC5ASSTB700	A1905-23C	12/30/02	12/30/02
05	AOC5ASSTB680	A1905-25C	12/31/02	12/31/02
06	AOC2TB5624	A1905-28A	12/31/02	12/31/02
07	AOC3SSTB5402	A1905-06C	01/06/03	01/06/03
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

FORM IV PCB

001413R
2/4/03

FORM 4
PCB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

BBLK1B

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab Sample ID: MB-4933 Lab File ID: E1D8345F

Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc) SEPF

Sulfur Cleanup (Y/N) Y Date Extracted: 12/28/02

Date Analyzed (1): 12/30/02 Date Analyzed (2): 12/30/02

Time Analyzed (1): 1327 Time Analyzed (2): 1327

Instrument ID (1): E1 Instrument ID (2): E1

GC Column (1): RTXCLPPEST 2 ID: 0.53(mm) GC Column (2): RTXCLPPEST ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	B1BLCS	LCS-4933	12/30/02	12/30/02
02	B1BLCSD	LCSD-4933	12/30/02	12/30/02
03	AOC3BB3	A1905-07A	12/30/02	12/30/02
04	AOC3BB4	A1905-08A	12/30/02	12/30/02
05	AOC5E7	A1905-14D	12/30/02	12/30/02
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

FORM IV PCB

001414

FORM 4
PCB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

BBLK1E

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab Sample ID: MB-4935 Lab File ID: E1D8397F

Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc) SEPF

Sulfur Cleanup (Y/N) Y Date Extracted: 01/02/03

Date Analyzed (1): 01/03/03 Date Analyzed (2): 01/03/03

Time Analyzed (1): 1316 Time Analyzed (2): 1316

Instrument ID (1): E1 Instrument ID (2): E1

GC Column (1): RTXCLPPEST 2 ID: 0.53(mm) GC Column (2): RTXCLPPEST ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	B1ELCS	LCS-4935	01/03/03	01/03/03
02	B1ELCSD	LCSD-4935	01/03/03	01/03/03
03	AOC5ASSTB695	A1905-19A	01/03/03	01/03/03
04	AOC5ASSD7A56	A1905-20A	01/03/03	01/03/03
05	AOC5ASSD7B56	A1905-21A	01/03/03	01/03/03
06	AOC5ASSTB700	A1905-23C	01/03/03	01/03/03
07	AOC5ASSTB680	A1905-25C	01/03/03	01/03/03
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

FORM IV PCB

001415

FORM 4
PCB METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

BBLK1A

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab Sample ID: MB-5070 Lab File ID: E1D8495F

Matrix (soil/water) WATER Extraction: (SepF/Cont/Sonc) SEPF

Sulfur Cleanup (Y/N) Y Date Extracted: 01/13/03

Date Analyzed (1): 01/13/03 Date Analyzed (2): 01/13/03

Time Analyzed (1): 1727 Time Analyzed (2): 1727

Instrument ID (1): E1 Instrument ID (2): E1

GC Column (1): RTXCLPPEST 2 ID: 0.53(mm) GC Column (2): RTXCLPPEST ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	B1ALCS	LCS-5070	01/13/03	01/13/03
02	B1ALCSD	LCSD-5070	01/13/03	01/13/03
03	AOC5WTB62WRE	A1905-16ERE	01/13/03	01/13/03
04	AOC7WTB65GWR	A1905-18ERE	01/13/03	01/13/03
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS:

FORM IV PCB

001416

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC2E6

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-26C

Sample wt/vol: 1000 (g/ml) ML Lab File ID: E1D8380F

% Moisture: _____ decanted: (Y/N)___ Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/24/02

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/31/02

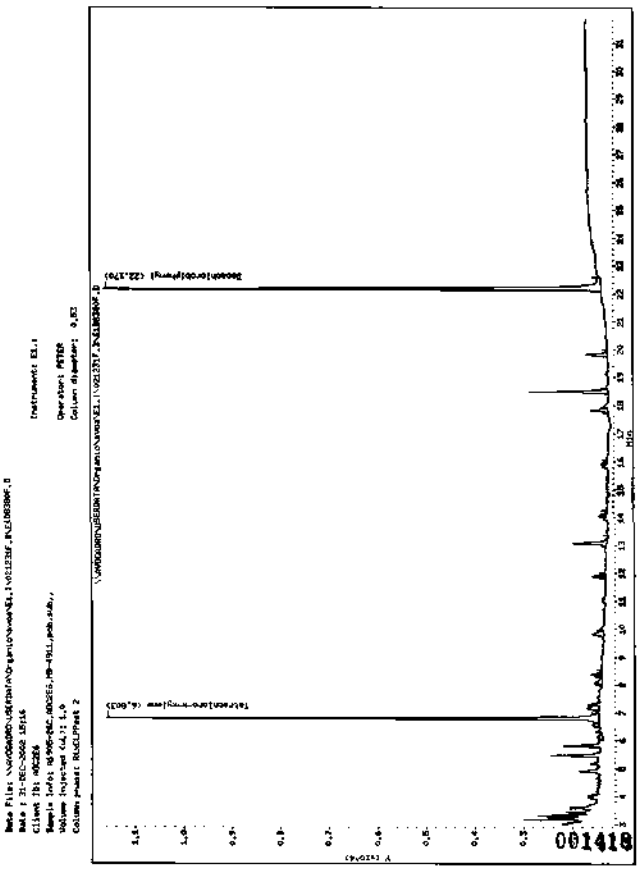
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

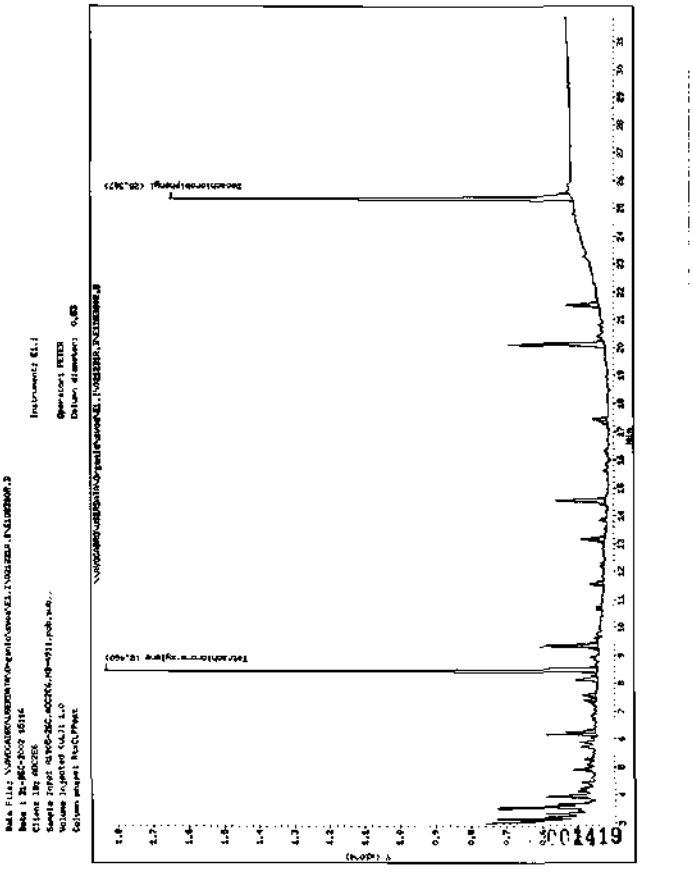
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

001417



001418



001419

Data File: E1D8380F.D
Report Date: 07-Jan-2003 11:08

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021231F.B\E1D8380F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021231R.B\E1D8380R.D
Inj Date : 31-DEC-2002 15:16
Sample Info: A1905-26C,AOC2E6,MB-4911,pcb.sub,,
Misc Info : 0,,,1,,,,,,,24-DEC-02,23-DEC-02,A1905
Cal Date : 02-JAN-2003 10:19
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021231F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021231R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.450	8.466	10136	13931	0.20	0.19		100.00
Decachlorobiphenyl	21.179	25.347	10243	11317	0.18	0.16		100.00

Bmf
01/07/03

001420

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC2TB24

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-28A
Sample wt/vol: 30.4 (g/mL) G Lab File ID: E1D8364F
% Moisture: 9 decanted: (Y/N) N Date Received: 12/23/02
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/27/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

FORM I PCB

001421

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

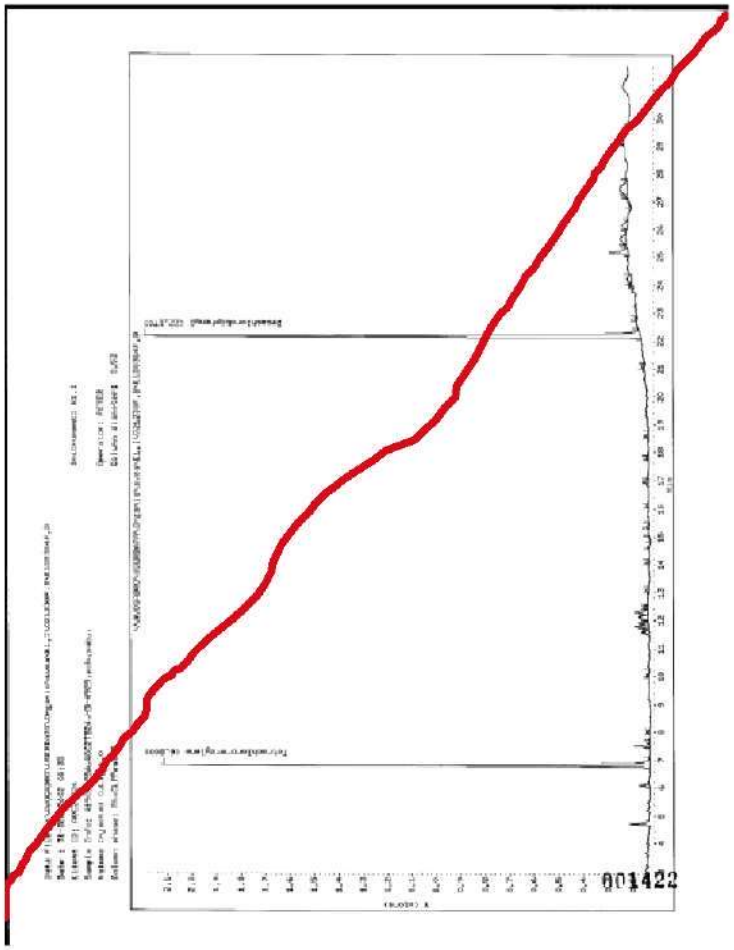
CLIENT SAMPLE NO.
AOC2TB5624

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: A1905-28A
Sample wt/vol: 30.4 (g/mL) G Lab File ID: E1D8364F
% Moisture: 9 decanted: (Y/N) N Date Received: 12/23/02
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/27/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

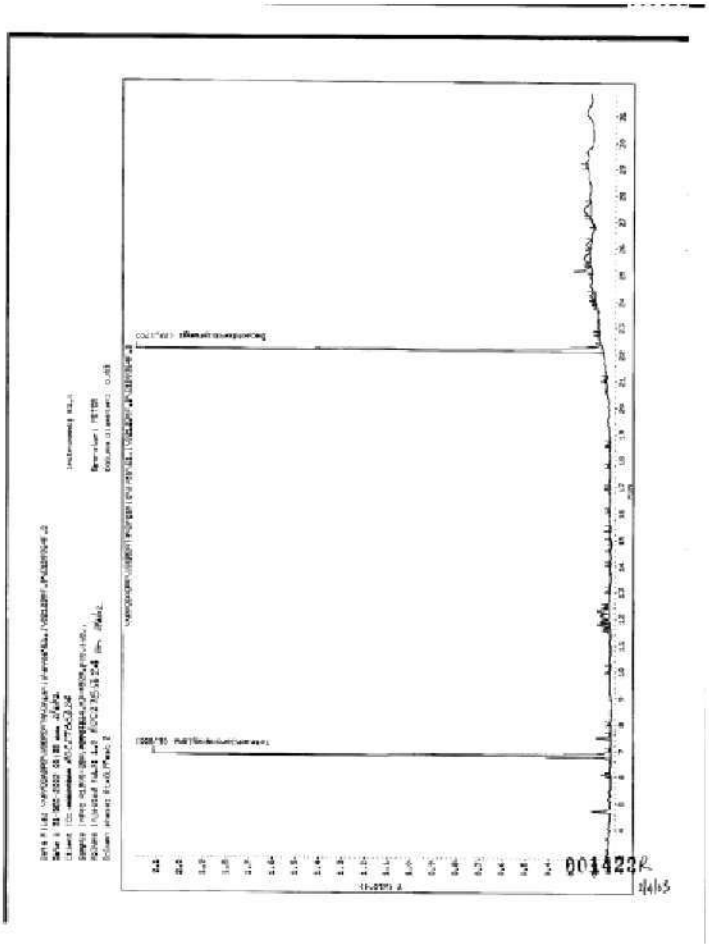
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

FORM I PCB

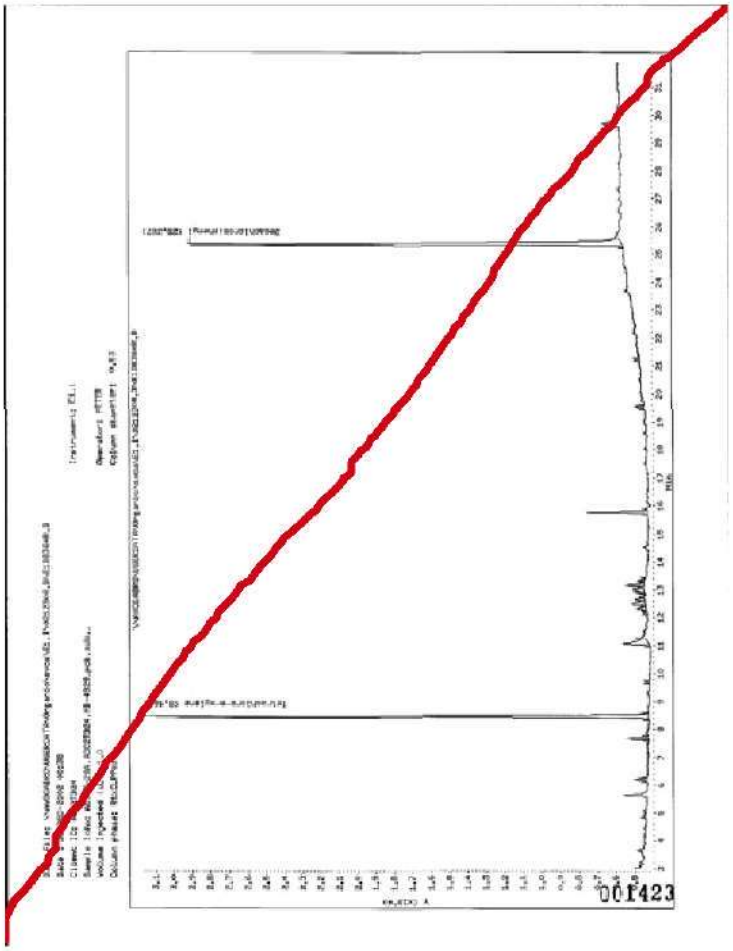
001421R
2/4/03



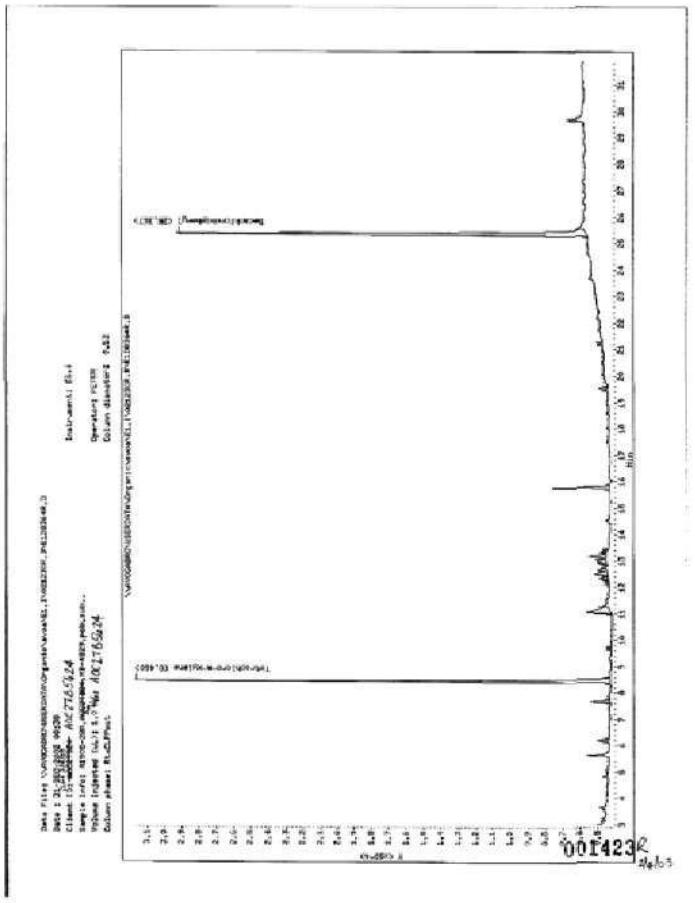
001422



001422R
2/4/03



001423



001423R

Data File: E1D8364F.D
Report Date: 07-Jan-2003 11:05

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1D8364F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1D8364R.D
Inj Date : 31-DEC-2002 00:38
Sample Info: A1905-28A,AOC2165824,MB-4929,pcb.sub,,
Misc Info : 0,,,2,,,,,,,27-DEC-02,23-DEC-02,A1896
Cal Date : 31-DEC-2002 09:28
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.400	Weight of sample extracted (g)
M	9.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/kg)	Conc#2 (ug/kg)	Target Range	Ratio
Tetrachloro-m-xylene	6.800	8.469	19661	27403	13	12		100.00
Decachlorobiphenyl	22.170	25.367	20278	23561	12	11		100.00

Bmk
01/07/03

001424

Data File: E1D8364F.D
Report Date: 07-Jan-2003 11:05

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1D8364F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1D8364R.D
Inj Date : 31-DEC-2002 00:38
Sample Info: A1905-28A,AOC2165824,MB-4929,pcb.sub,,
Misc Info : 0,,,2,,,,,,,27-DEC-02,23-DEC-02,A1896
Cal Date : 31-DEC-2002 09:28
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.400	Weight of sample extracted (g)
M	9.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/kg)	Conc#2 (ug/kg)	Target Range	Ratio
Tetrachloro-m-xylene	6.800	8.469	19661	27403	13	12		100.00
Decachlorobiphenyl	22.170	25.367	20278	23561	12	11		100.00

Bmk
01/07/03

001424R

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC3BB3

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-07A

Sample wt/vol: 1000 (g/ml) ML Lab File ID: E1D8350F

% Moisture: _____ decanted: (Y/N)___ Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:12/28/02

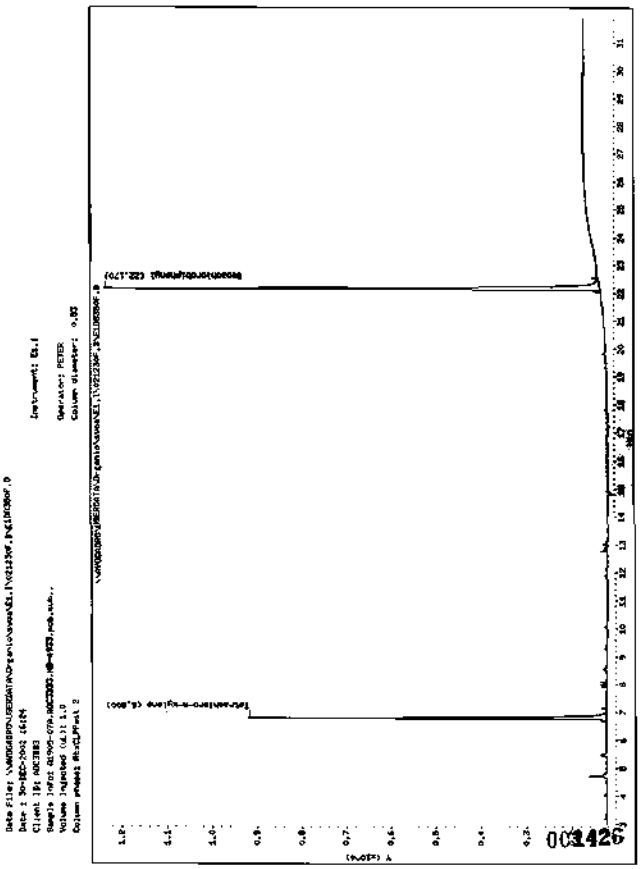
Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/30/02

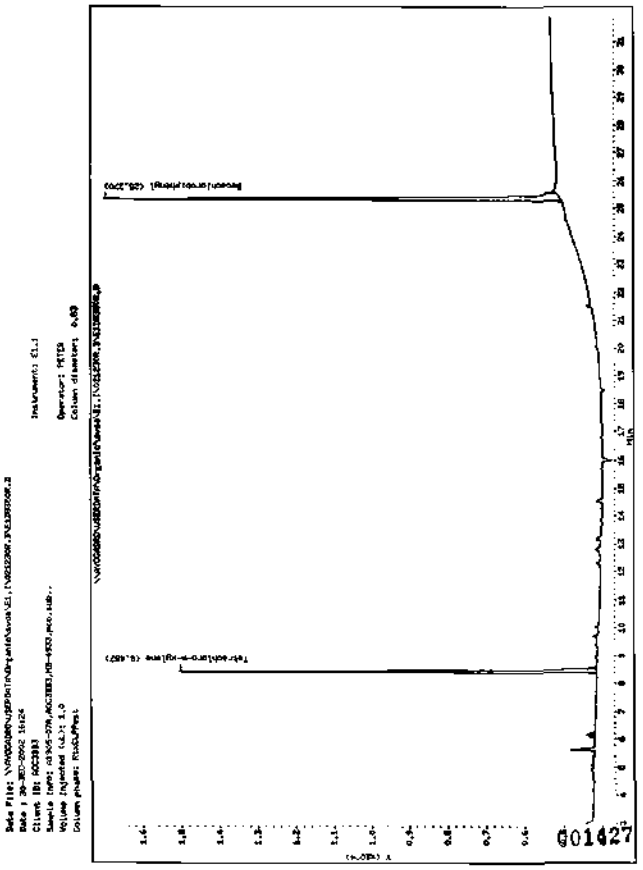
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB





Data File: E1D8350F.D
Report Date: 07-Jan-2003 11:04

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1D8350F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1D8350R.D
Inj Date : 30-DEC-2002 16:24
Sample Info: A1905-07A,AOC3BB3,MB-4933,pcb.sub,,
Misc Info : 0,,,2,,,,,,,26-DEC-02,23-DEC-02,A1905
Cal Date : 31-DEC-2002 09:28
Operator : PETER
Inst ID : E1.I
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.800	8.857	7961	10941	0.15	0.15		100.00
Decachlorobiphenyl	23.176	25.870	11025	15159	0.19	0.19		100.00

BMF
01/07/03

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC3BB4

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-08A

Sample wt/vol: 1000 (g/ml) ML Lab File ID: E1D8351F

% Moisture: _____ decanted: (Y/N)___ Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:12/28/02

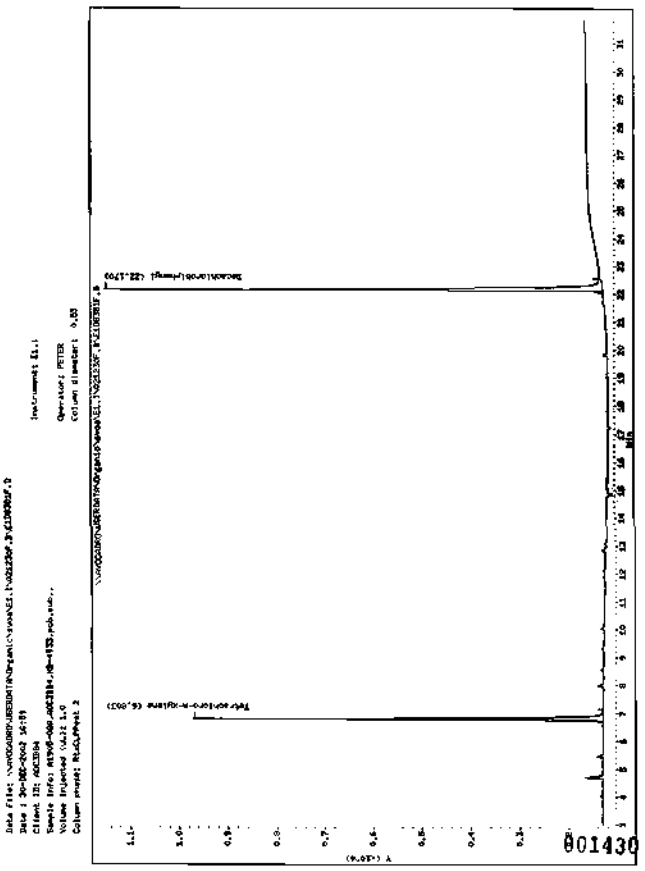
Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/30/02

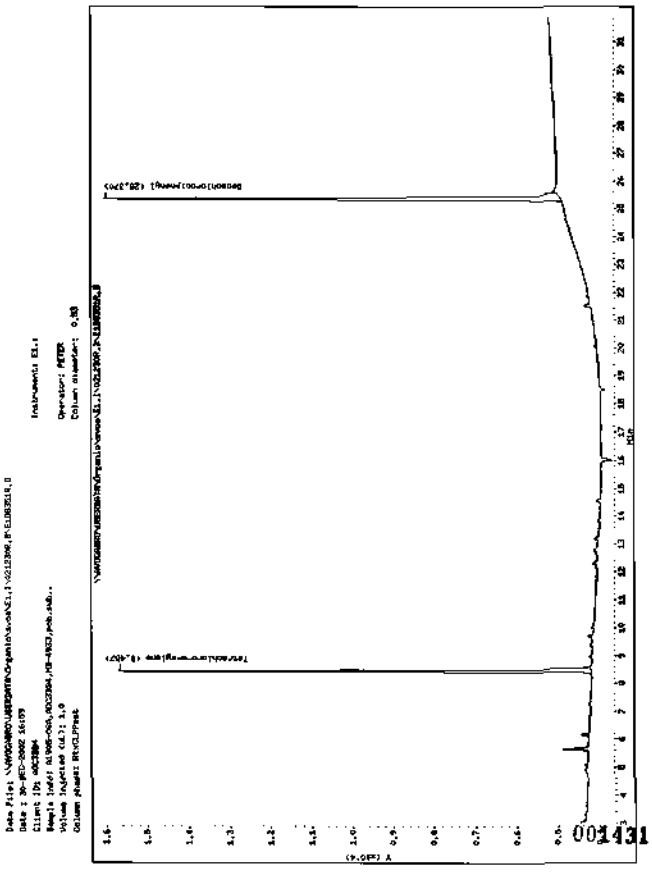
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB





Data File: E1D8351F.D
Report Date: 07-Jan-2003 11:04

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1D8351F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1D8351R.D
Inj Date : 30-DEC-2002 16:59
Sample Info: A1905-08A,AOC3BB4,MB-4933,pcb.sub,,
Misc Info : 0,,,2,,,,,,,28-DEC-02,23-DEC-02,A1905
Cal Date : 31-DEC-2002 09:28
Operator : PETER
Inst ID : E1.I
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro m xylene	4.893	4.957	8412	11503	0.17	0.16		100.00
Decachlorobiphenyl	27.170	25.730	10223	11101	0.16	0.16		100.00

BMF
01/07/03

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ADC3&STB5402

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-06C

Sample wt/vol: 30.3 (g/mL) G Lab File ID: E1D8433F

% Moisture: 9 decanted: (Y/N) N Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/27/02

Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/06/03

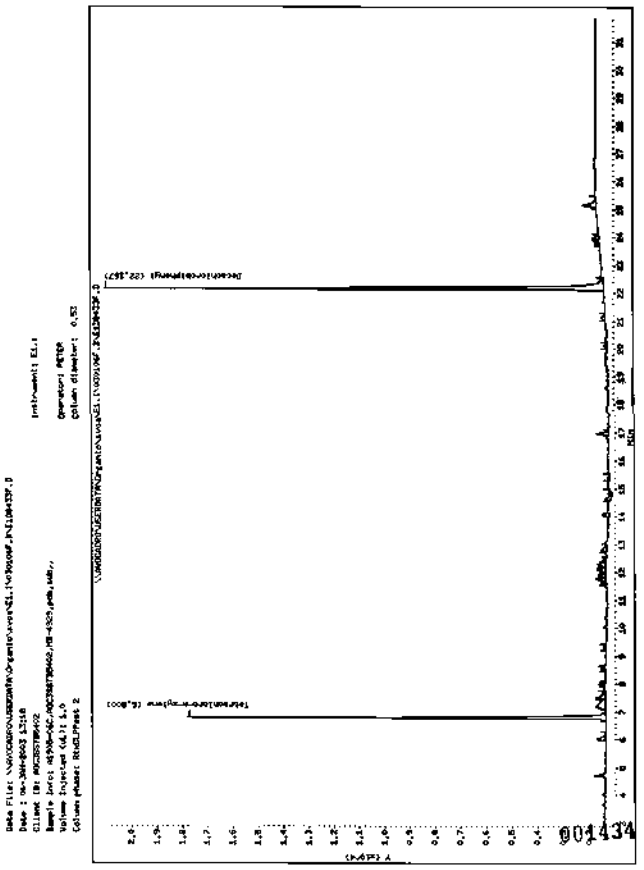
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

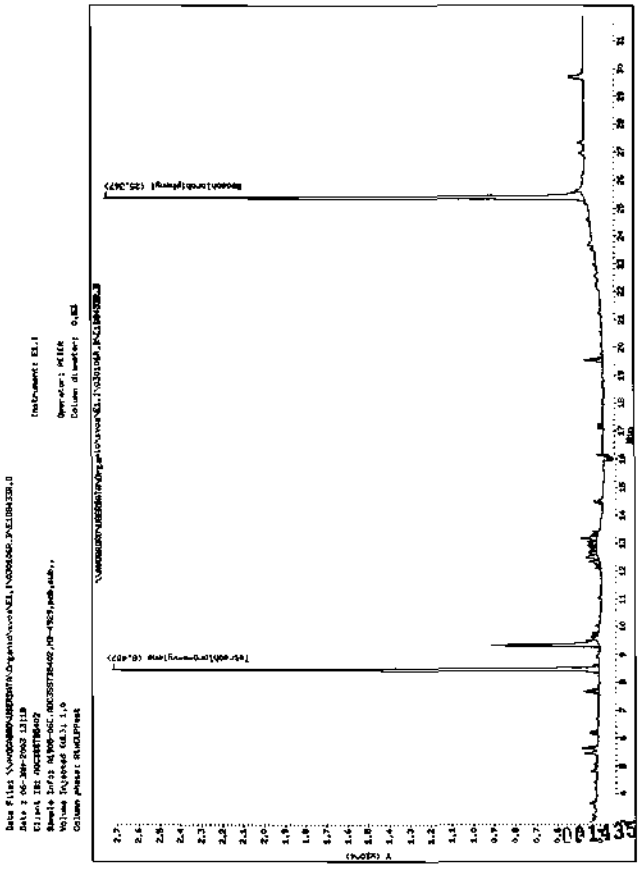
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	36	U
11104-28-2	Aroclor-1221	36	U
11141-16-5	Aroclor-1232	36	U
53469-21-9	Aroclor-1242	36	U
12672-29-6	Aroclor-1248	36	U
11097-69-1	Aroclor-1254	36	U
11096-82-5	Aroclor-1260	36	U

FORM I PCB

001433



001434



001435

Data File: E1D8433F.D
Report Date: 07-Jan-2003 11:09

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030106F.B\E1D8433F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030106R.B\E1D8433R.D
Inj Date : 06-JAN-2003 13:18
Sample Info: A1905-06C,ADC3SSTB5402,MB-4929,pcb.sub,,
Misc Info : 0,,,2,,,,,,,27-DEC-02,,A1905
Cal Date : 06-JAN-2003 17:02
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030106F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030106R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Wa * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000 ✓	Correction factor
Vt	5000.000 ✓	Volume of final extract (uL) (1000 low, 2
Vi	1.000	Volume injected (uL)
Wa	30.300 ✓	Weight of sample extracted (g)
M	9.000 ✓	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/kg)	Conc#2 (ug/kg)	Target Range	Ratio
Tetrachloro-m-xylene	6.849	8.497	15666	21233	13	11		100.00
Decachlorobiphenyl	22.167	25.367	19671	23868	13	12		100.00

BMF
01/07/03

001436

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC5ASSD7A56

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-20A

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E1D8354F

% Moisture: 8 decanted: (Y/N) N Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/27/02

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/30/02

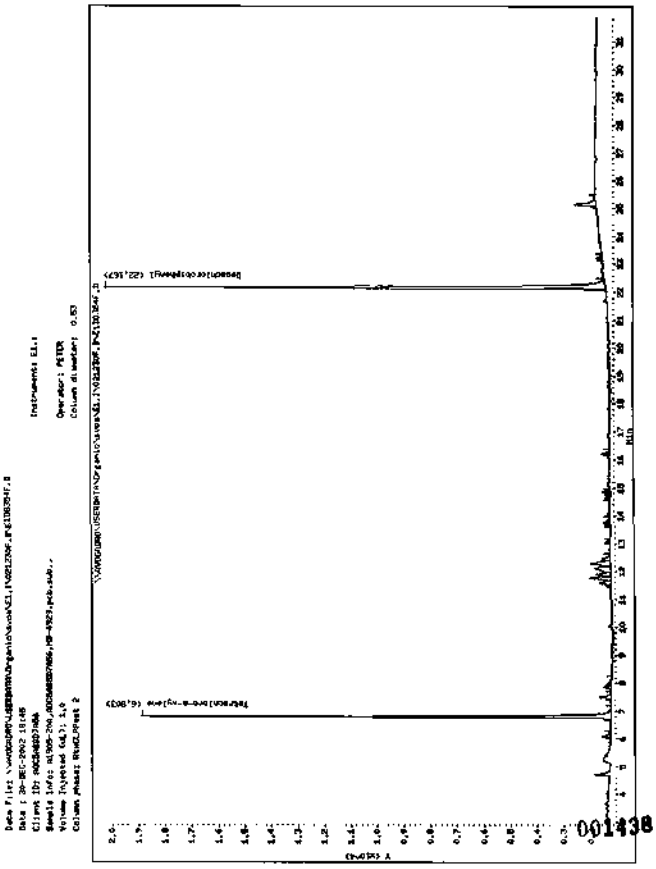
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

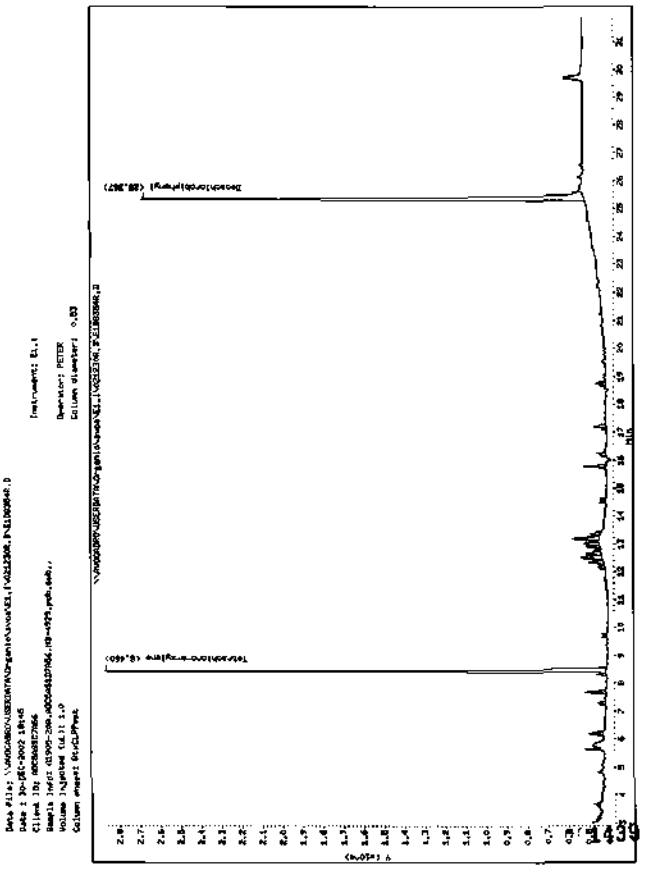
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

FORM I PCB

001437



001438



001439

Data File: E1D8354F.D
Report Date: 07-Jan-2003 11:05

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1D8354F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1D8354R.D
Inj Date : 30-DEC-2002 18:45
Sample Info: A1905-20A,AOC5ASSD7A56,MB-4929,pcb.sub,,
Misc Info : 0,,,2,,,,,,,27-DEC-02,23-DEC-02,A1896
Cal Date : 31-DEC-2002 09:28
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.100	Weight of sample extracted (g)
M	8.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Tetrachloro m Xylene	6.661	6.664	37454	25531	33	33		100.00
Decachlorobiphenyl	22.347	25.347	38859	21431	33	33		100.00

BMF
01/07/03

001440

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC5ASSD7A56

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-20A

Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E1D8401F

% Moisture: _____ decanted: (Y/N)___ Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:01/02/03

Concentrated Extract Volume: 10000(uL) Date Analyzed: 01/03/03

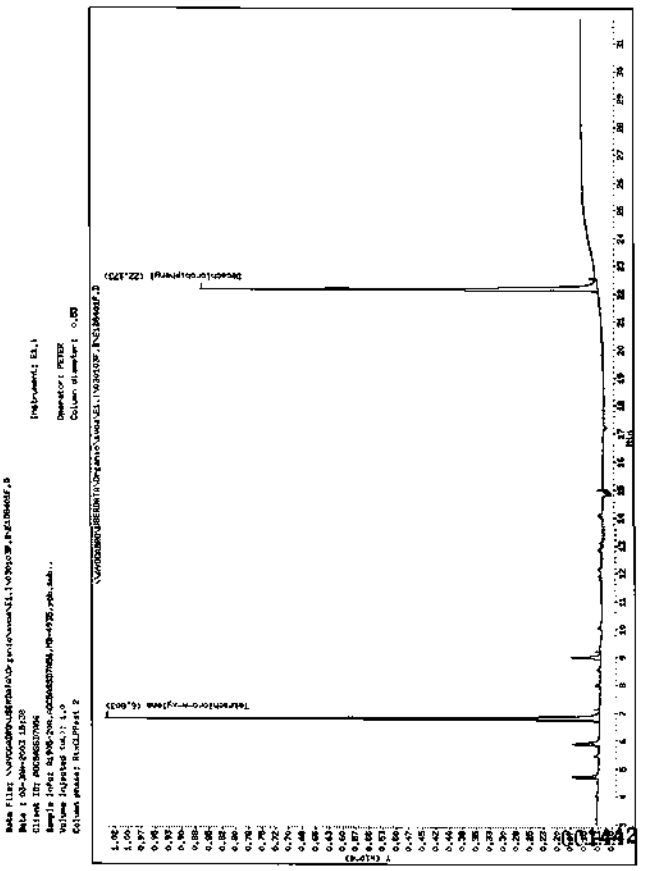
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

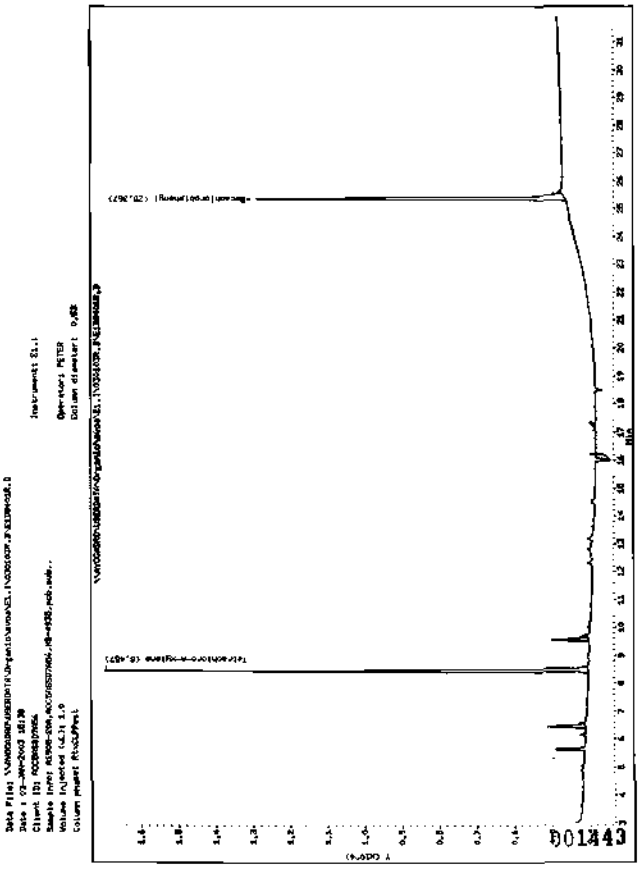
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM I PCB

001441



001442



001443

Data File: E1D8401F.D
Report Date: 07-Jan-2003 12:06

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103F.B\E1D8401F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103R.B\E1D8401R.D
Inj Date : 03-JAN-2003 15:38
Sample Info: A1905-20A,AOC5ASSD7A56,MB-4935,pcb.sub,,
Misc Info : 0,,,1,,,,,,,02-JAN-03,23-DEC-02,A1905
Cal Date : 06-JAN-2003 09:25
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	300.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.803	8.437	9307	12960	0.67	0.58		100.00
Decachlorobiphenyl	22.173	25.367	7610	8271	0.63	0.59		100.00

BMF
01/07/03

001444

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC5ASSD7B56

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-21A

Sample wt/vol: 30.2 (g/mL) G Lab File ID: E1D8361F

% Moisture: 8 decanted: (Y/N) N Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/27/02

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/30/02

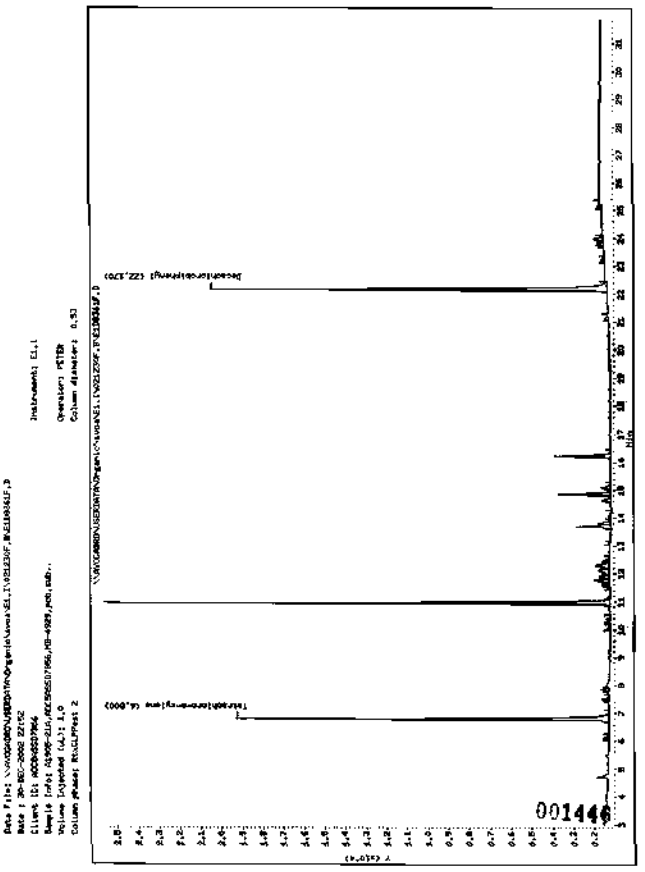
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

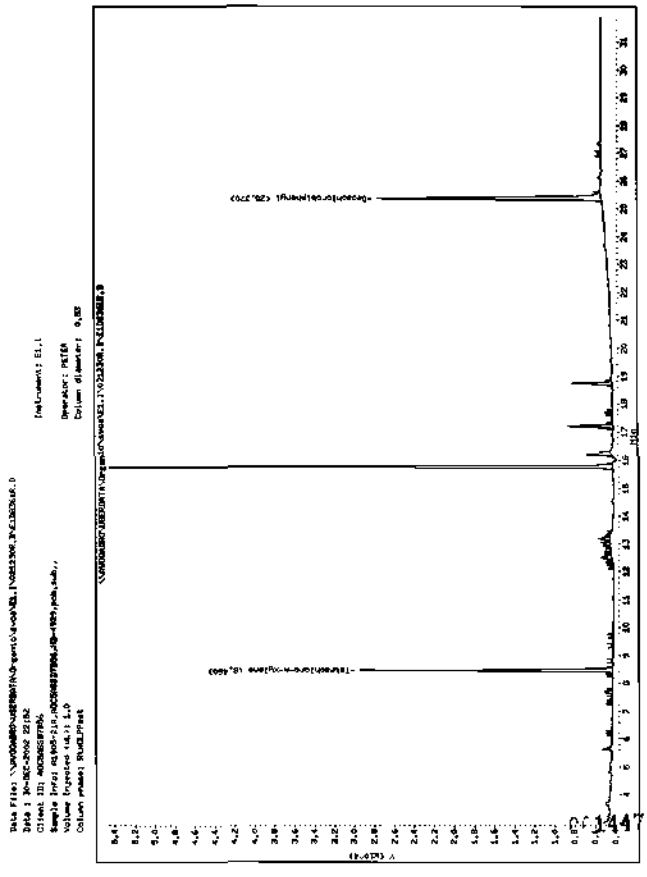
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

FORM I PCB

001445



001446



001447

Data File: E1D8361F.D
Report Date: 07-Jan-2003 11:05

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1D8361F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1D8361R.D
Inj Date : 30-DEC-2002 22:52
Sample Info: A1905-21A,AOC5ASSD7B56,MB-4929,pcb.sub,,
Misc Info : 0,,,2,,,,,,,27-DEC-02,23-DEC-02,A1896
Cal Date : 31-DEC-2002 09:28
Operator : PETER
Inst ID : E1.I
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

NAME	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.200	Weight of sample extracted (g)
M	8.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Tetrachloro-m-xylene	6.908	8.448	18048	25154	22	31		100.00
Decachlorobiphenyl	22.170	25.570	19308	22933	31	10		100.00

BMF
01/07/03

001448

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

AOC5ASSD7B56

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-21A

Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E1D8402F

% Moisture: _____ decanted: (Y/N)___ Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:01/02/03

Concentrated Extract Volume: 10000(uL) Date Analyzed: 01/03/03

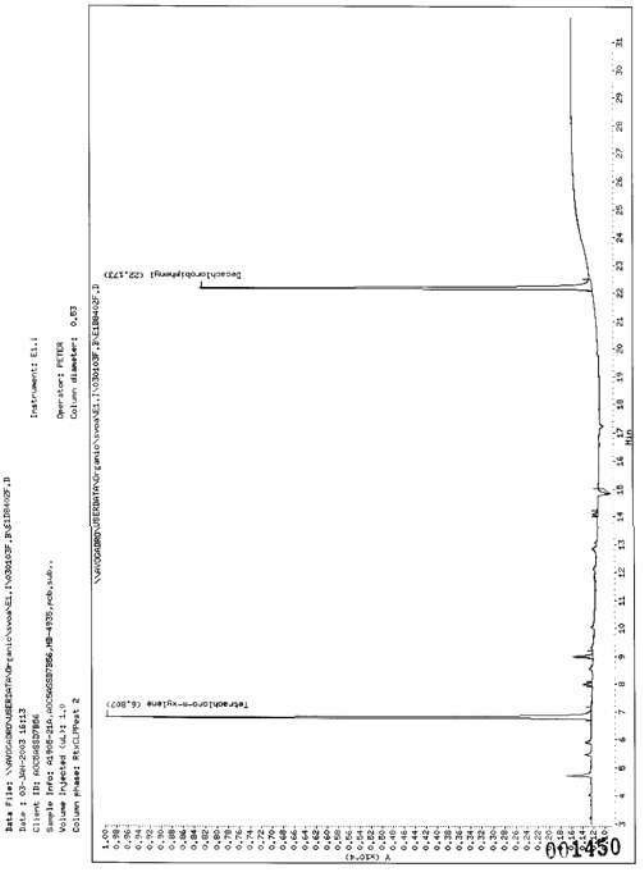
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

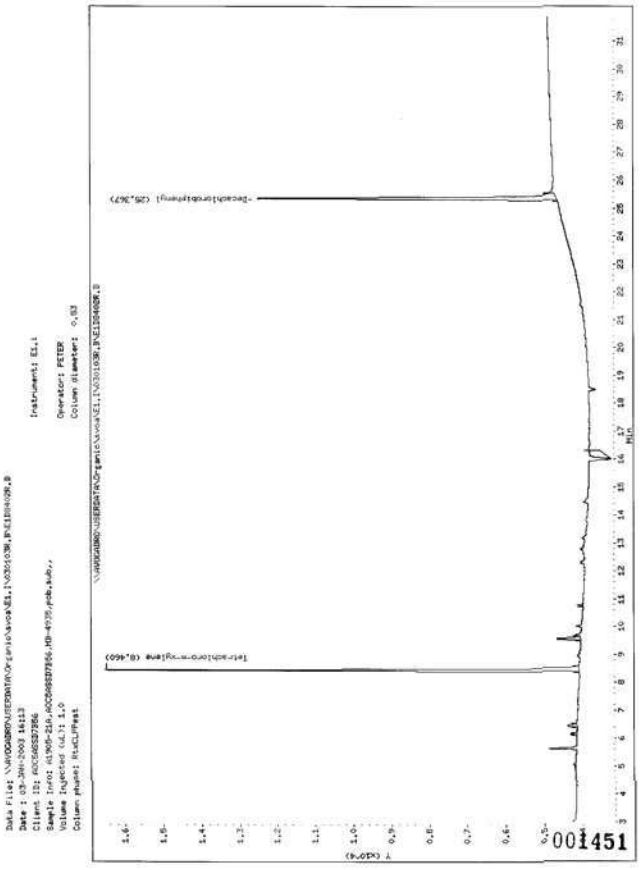
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM I PCB

001449



001450



001451

Data File: E1D8402F.D
Report Date: 07-Jan-2003 12:06

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103F.B\E1D8402F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103R.B\E1D8402R.D
Inj Date : 03-JAN-2003 16:13
Sample Info: A1905-21A,AOC5ASSD7B56,MB-4935,pcb.sub,,
Misc Info : 0,,,1,,,,,,,02-JAN-03,23-DEC-02,A1905
Cal Date : 06-JAN-2003 09:25
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	300.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.807	8.460	8761	12450	0.58	0.56		100.00
Decachlorobiphenyl	22.173	25.367	7074	7835	0.40	0.37		100.00

BMF
01/07/03

001452

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC5ASSTB68015

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-25C

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E1D8363F

% Moisture: 7 decanted: (Y/N) N Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/27/02

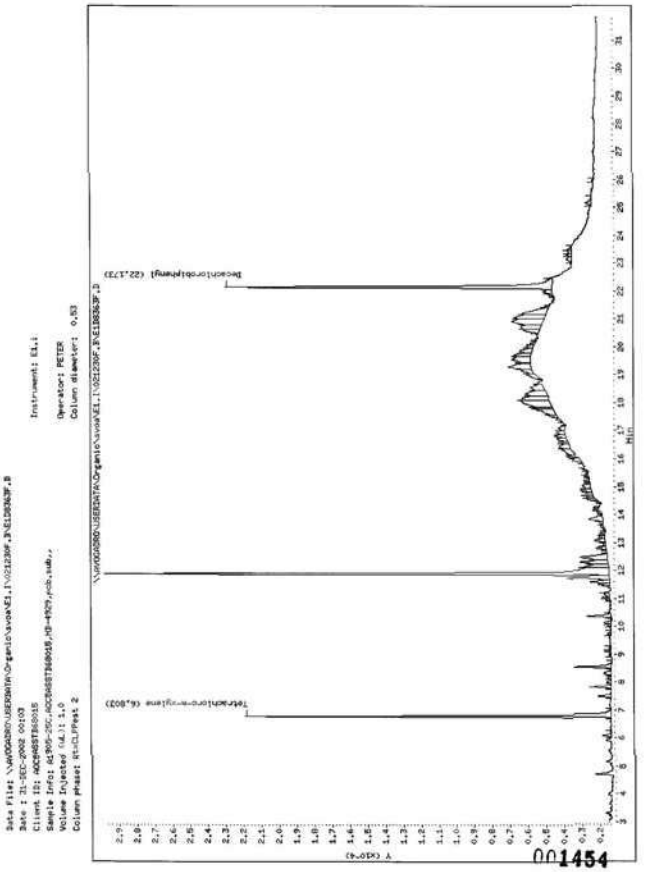
Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/31/02

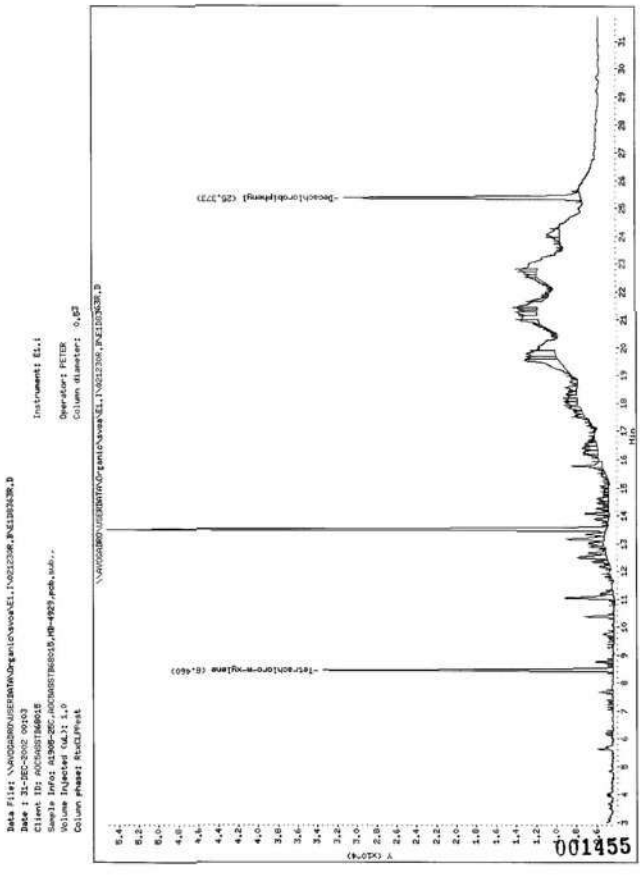
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

FORM I PCB





Data File: E1D8363F.D
Report Date: 07-Jan-2003 11:05

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1D8363F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1D8363R.D
Inj Date : 31-DEC-2002 00:03
Sample Info: A1905-25C,AOC5ASSTB68015,MB-4929,pcb.sub,,
Misc Info : 0,,,2,,,,,,,27-DEC-02,23-DEC-02,A1896
Cal Date : 31-DEC-2002 09:28
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.100	Weight of sample extracted (g)
M	7.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Tetrachloro-m-xylene	6.803	6.660	20519	29112	14	13		100.00
Decachlorobiphenyl	22.173	25.373	18424	23761	10	11		100.00

BMF
01/07/03

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC5ASSTB68015

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-25C

Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E1D8404F

% Moisture: _____ decanted: (Y/N)___ Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:01/02/03

Concentrated Extract Volume: 10000(uL) Date Analyzed: 01/03/03

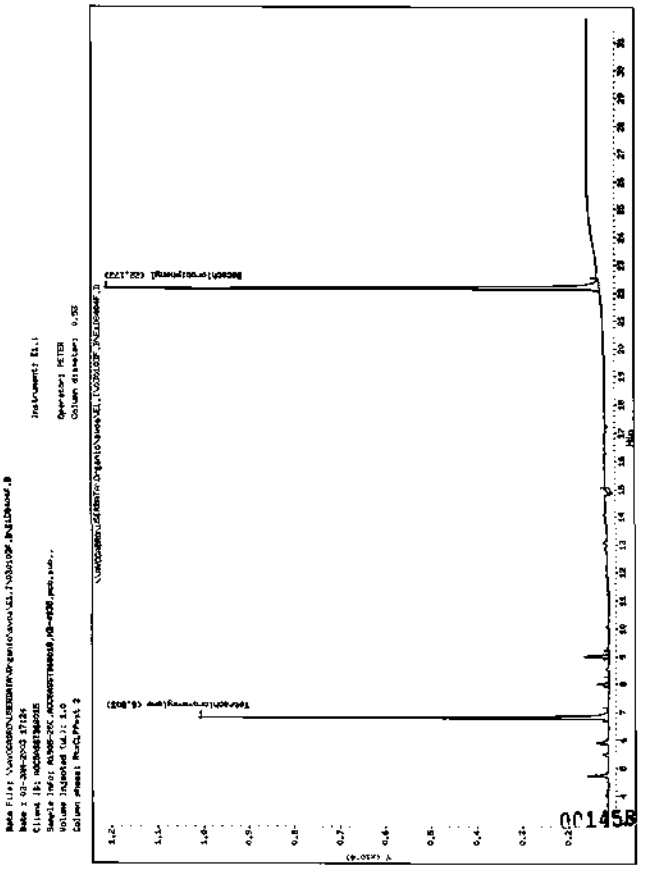
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

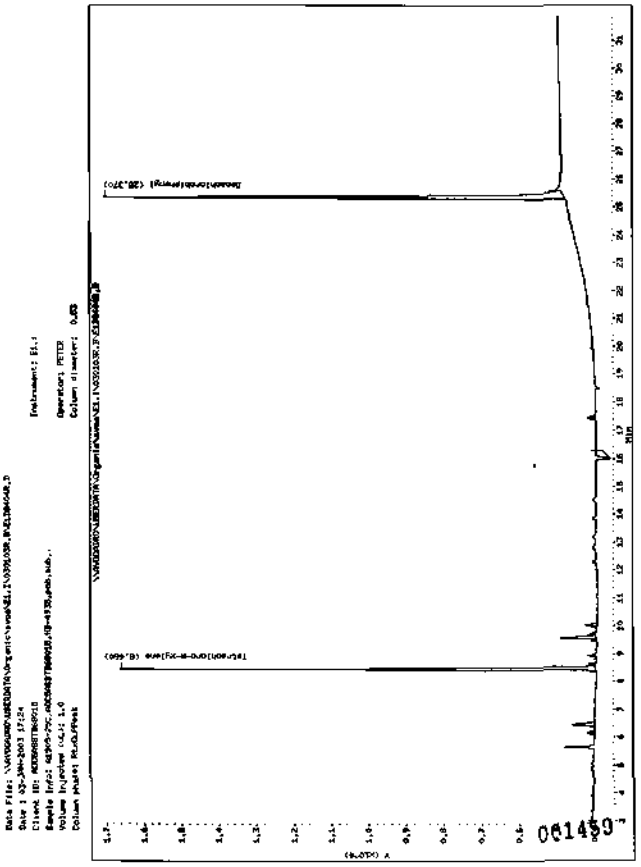
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM I PCB

001457



001458



001459

Data File: E1D8404F.D
Report Date: 07-Jan-2003 12:06

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103F.B\E1D8404F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103R.B\E1D8404R.D
Inj Date : 03-JAN-2003 17:24
Sample Info: A1905-25C,AOC5ASSTB68015,MB-4935,pcb.sub,,
Misc Info : 0,,,1,,,,,,,02-JAN-03,23-DEC-02,A1905
Cal Date : 06-JAN-2003 09:25
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	300.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	8.803	8.440	8967	12847	0.58	0.57		100.00
Decachlorobiphenyl	22.173	25.170	10435	12355	0.60	0.57		100.00

BMF
01/07/03

001460

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC5ASSTB6956

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-19A

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E1D8353F

% Moisture: 11 decanted: (Y/N) N Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/27/02

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/30/02

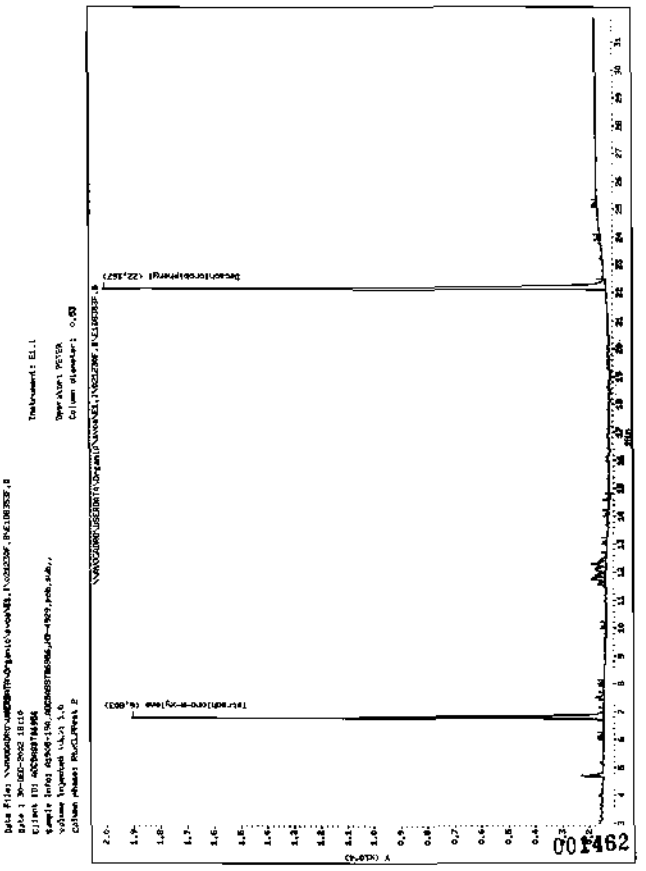
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

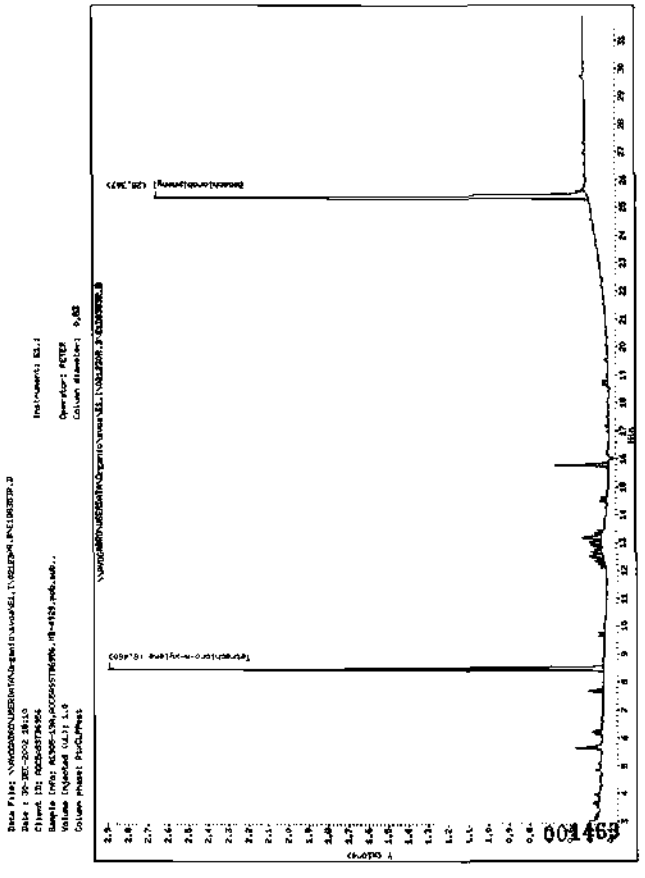
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	37	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U

FORM I PCB

001461



001462



001463

Data File: E1D8353F.D
Report Date: 07-Jan-2003 11:05

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\avoa\E1.I\021230F.B\E1D8353F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\avoa\E1.I\021230R.B\E1D8353R.D
Inj Date : 30-DEC-2002 18:10
Sample Info: A1905-19A,AOC5ASSTB6956,MB-4929,pcb.sub,,
Misc Info : 0,,,2,,,,,,,27-DEC-02,23-DEC-02,A1896
Cal Date : 31-DEC-2002 09:28
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\avoa\E1.I\021230F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\avoa\E1.I\021230R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	11.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ng/Kg)	Conc#2 (ng/Kg)	Target Range	Ratio
Tetrachloro-m-xylene	6.401	6.466	17847	34655	13	12		100.00
Decachlorobiphenyl	22.142	25.187	18780	31601	13	11		100.00

BNF
01/07/03

001464

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC5ASSTR6956

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-19A

Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E1D8400F

% Moisture: _____ decanted: (Y/N)___ Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:01/02/03

Concentrated Extract Volume: 10000(uL) Date Analyzed: 01/03/03

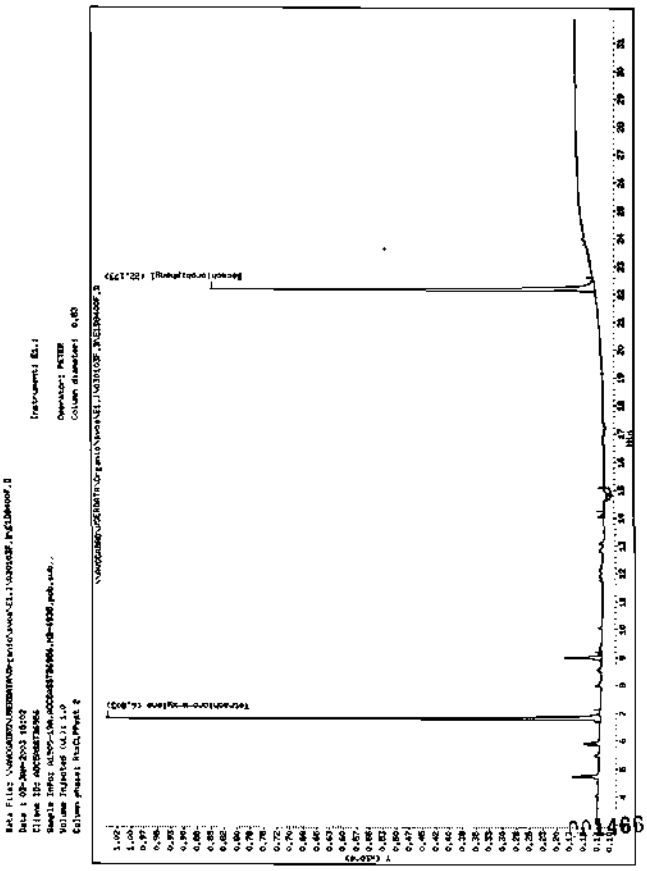
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

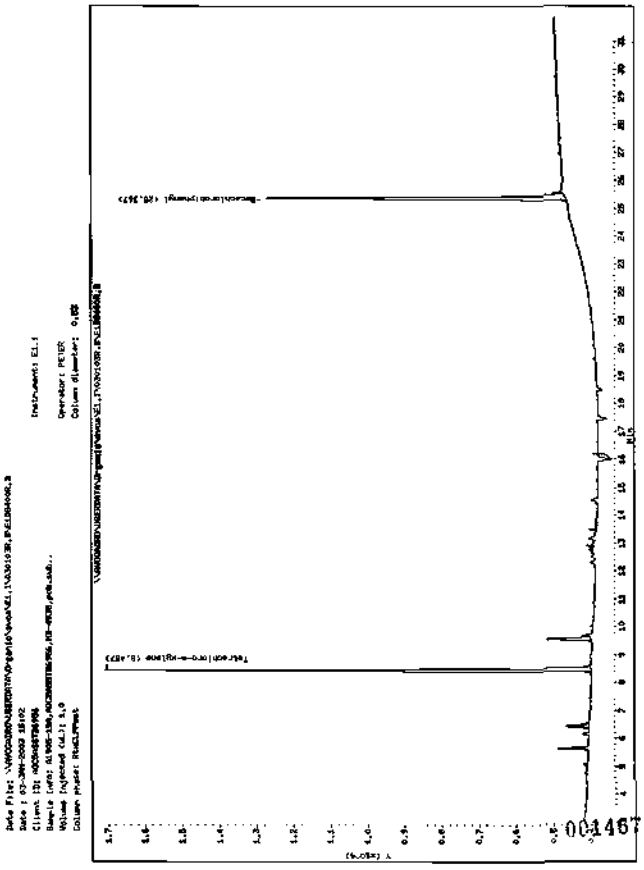
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM 1 PCB

001465



001466



001467

Data File: E1D8400F.D
Report Date: 07-Jan-2003 12:06

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103F.B\E1D8400F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103R.B\E1D8400R.D
Inj Date : 03-JAN-2003 15:02
Sample Info: A1905-19A,AOC5ASSTR6956,MB-4935,pcb.sub,,
Misc Info : 0,,,1,,,,,,,02-JAN-03,23-DEC-02,A1905
Cal Date : 06-JAN-2003 09:25
Operator : PETER
Inst ID : E1.I
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	300.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.803	6.357	9249	13072	0.61	0.59		100.00
Decachlorobiphenyl	22.173	25.367	7771	8043	0.43	0.38		108.00

BMF
01/07/03

001468

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC5ASSTB7002

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case NO.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: A1905-23C

Sample wt/vol: 30.1 (g/mL) G Lab File ID: E1D8362F

% Moisture: 7 decanted: (Y/N) N Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/27/02

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/30/02

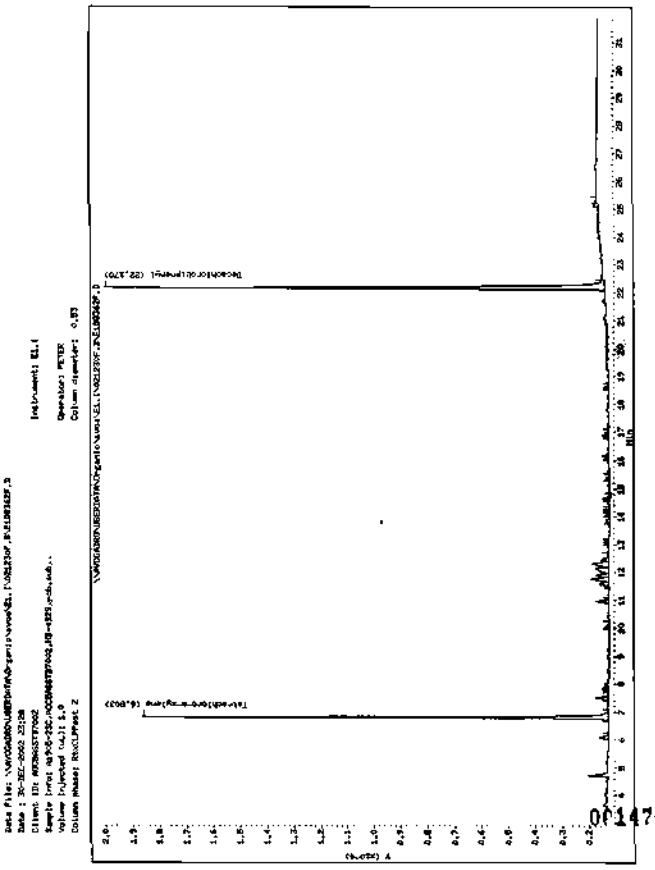
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

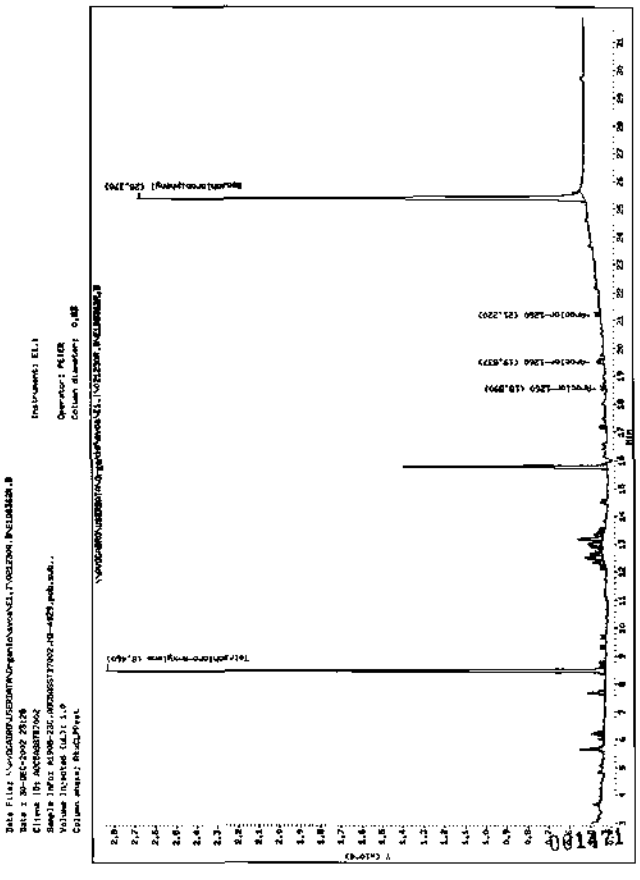
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

FORM I PCB

001469



001470



001471

Data File: E1D8362F.D
Report Date: 07-Jan-2003 11:05

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1D8362F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1D8362R.D
Inj Date : 30-DEC-2002 23:28
Sample Info: A1905-23C,AOC5ASSTB7002,MB-4929,pcb.sub,,
Misc Info : 0,,,2,,,,,,,27-DEC-02,23-DEC-02,A1896
Cal Date : 31-DEC-2002 09:28
Operator : PETER
Inst ID : E1.I
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL) (1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.100	Weight of sample extracted (g)
M	7.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target RA#/#	Ratio
Tetrachloro-m-xylene	8.803	8.860	12363	26118	33	33		106.00
Decachlorobiphenyl	22.170	29.370	16655	21618	33	33		100.00

BMF
01/07/03

001472

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC5ASSTB7002

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-23C

Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E1D8403F

% Moisture: _____ decanted: (Y/N)___ Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 01/02/03

Concentrated Extract Volume: 10000(uL) Date Analyzed: 01/03/03

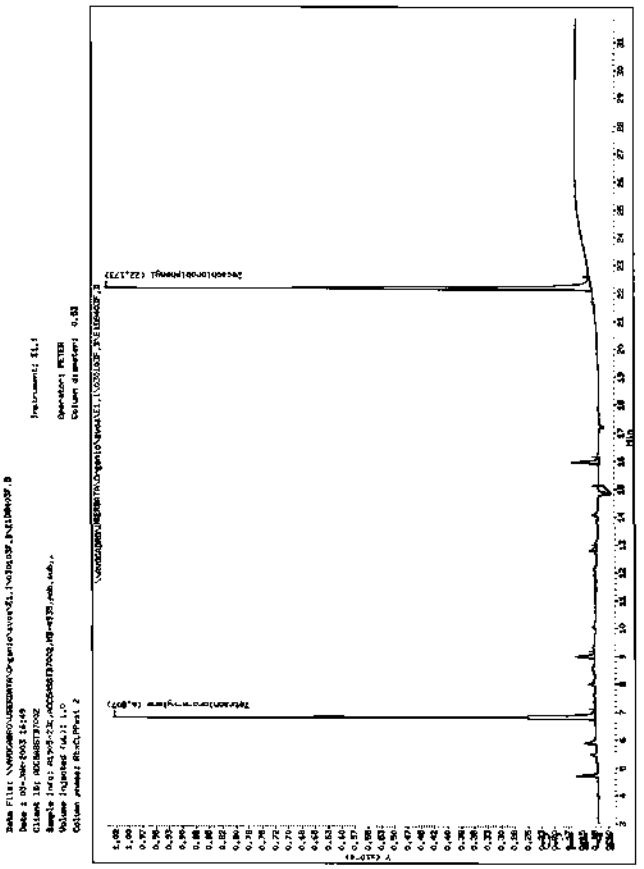
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

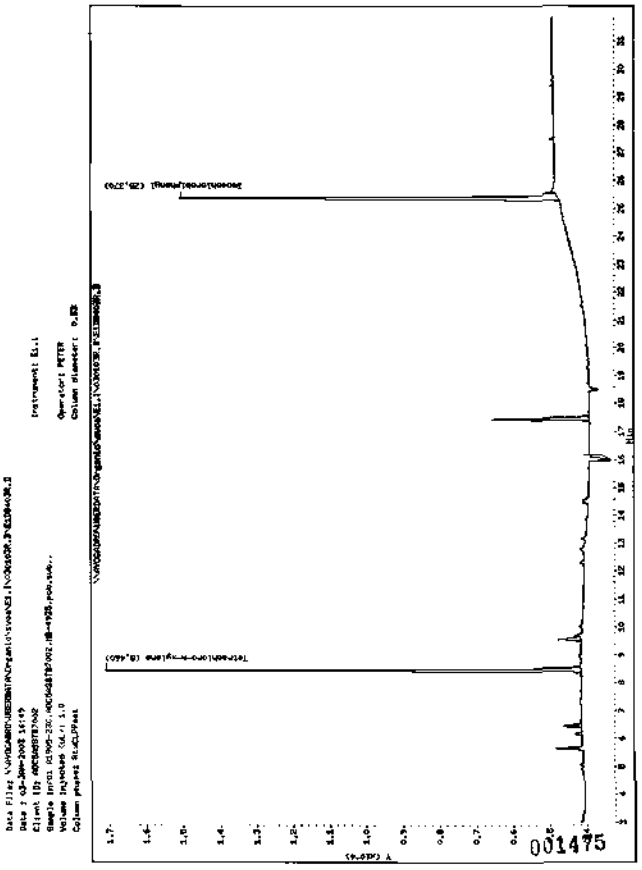
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM I PCB

001473



001474



001475

Data File: E1D8403F.D
Report Date: 07-Jan-2003 12:06

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103F.B\E1D8403F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103R.B\E1D8403R.D
Inj Date : 03-JAN-2003 16:49
Sample Info: A1905-23C,AOC5ASSTB7002,MB-4935,pcb.sub.,
Misc Info : 0,,,1,,,,,,,02-JAN-03,23-DEC-02,A1905
Cal Date : 06-JAN-2003 09:25
Operator : PETER
Inst ID : E1.I
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	300.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	8.887	8.460	9651	12951	0.40	0.38		100.00
Decachlorobiphenyl	22.175	21.372	9144	10789	0.53	0.48		100.00

BMF
01/07/03

001476

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

AOC5E7

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-14D

Sample wt/vol: 1000 (g/ml) ML Lab File ID: E1D8352F

% Moisture: _____ decanted: (Y/N)___ Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:12/28/02

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/30/02

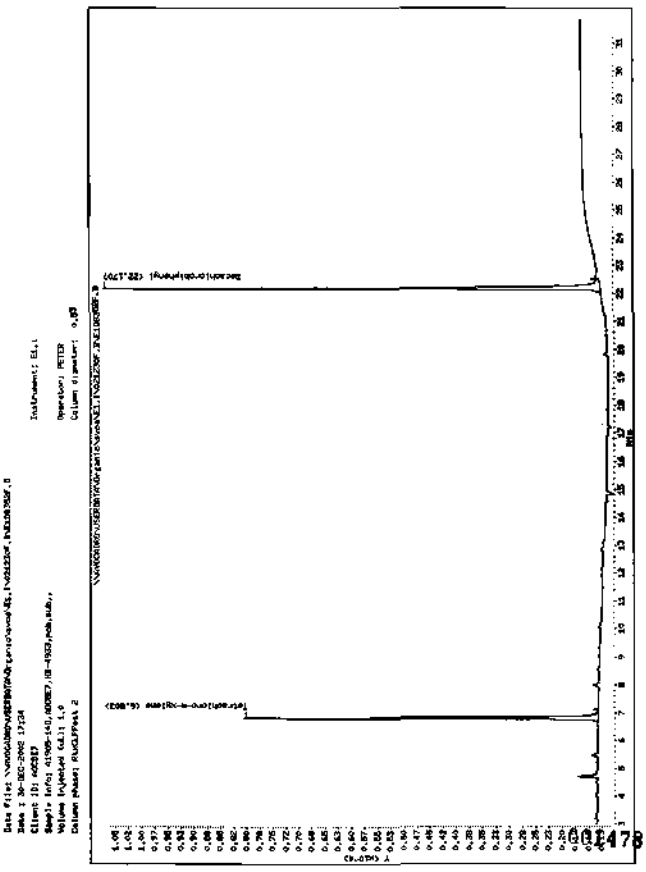
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

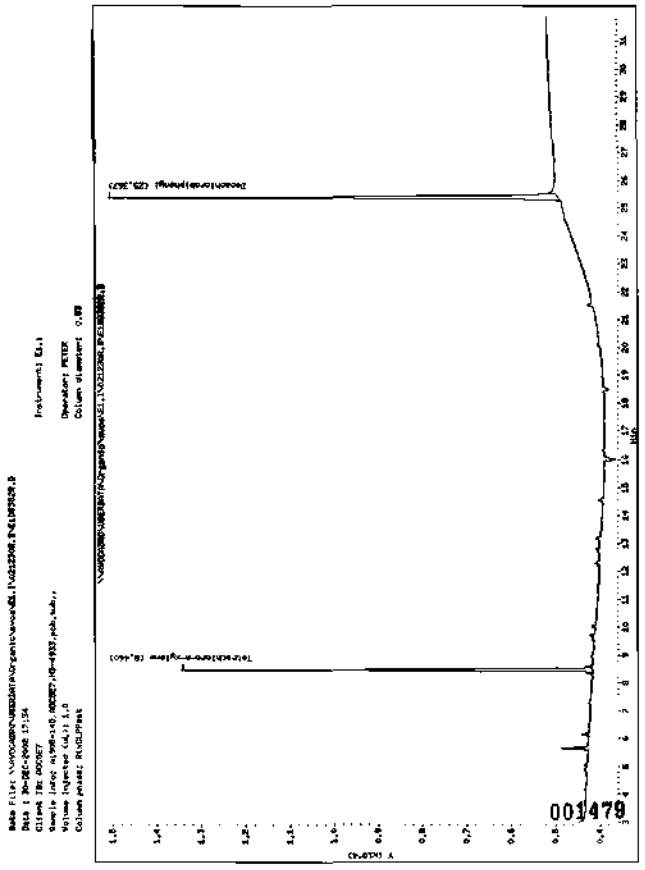
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

001477



001478



001479

Data File: E1D8352F.D
Report Date: 07-Jan-2003 11:05

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1D8352F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1D8352R.D
Inj Date : 30-DEC-2002 17:34
Sample Info: A1905-14D,AOC5E7,MB-4933,pcb.sub,,
Misc Info : 0,,,2,,,,,,,28-DEC-02,23-DEC-02,A1905
Cal Date : 31-DEC-2002 09:28
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT1:	RT2:	Resp#1	Resp#2	Conc#1 (ng/L)	Conc#2 (ng/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.431	8.466	6728	9290	0.13	0.13		100.00
Decachlorobiphenyl	22.179	25.867	9462	10179	0.14	0.14		100.00

Bmf
01/07/03

001480

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC5WTB62W

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-16D

Sample wt/vol: 500.0 (g/ml) ML Lab File ID: E1D8511F

% Moisture: _____ decanted: (Y/N)___ Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:12/26/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/14/03

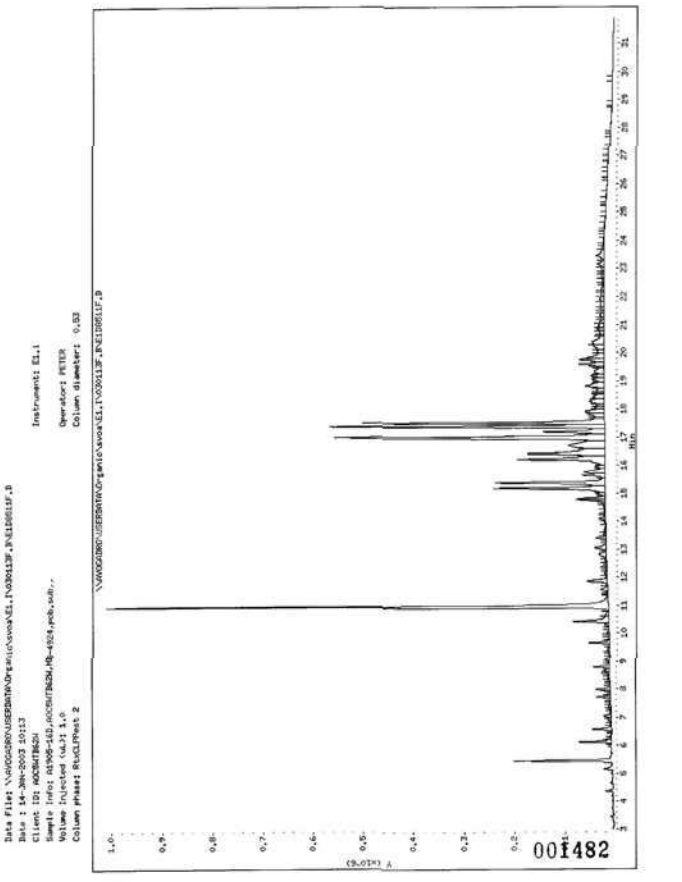
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

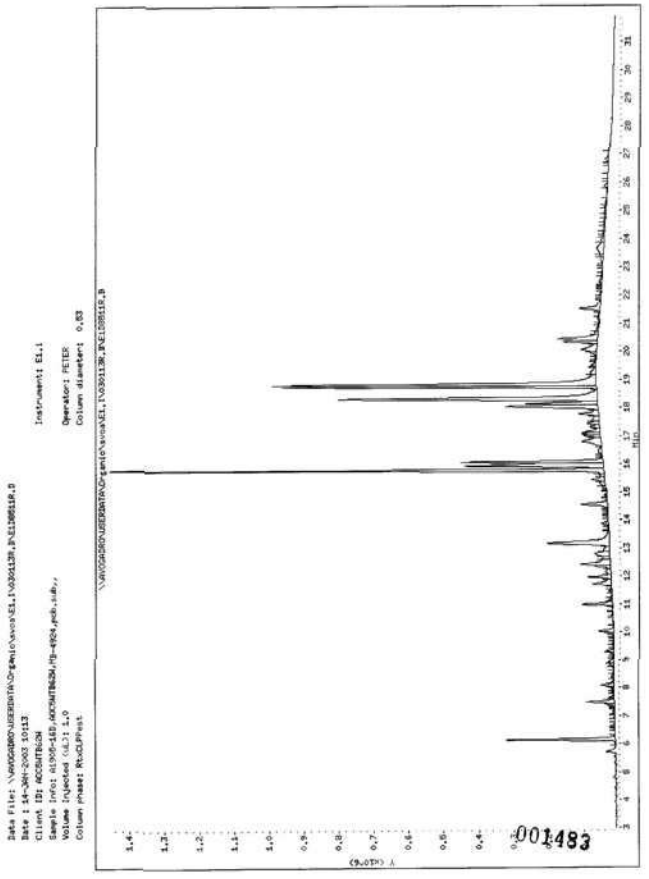
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.10	U
11104-28-2	Aroclor-1221	0.10	U
11141-16-5	Aroclor-1232	0.10	U
53469-21-9	Aroclor-1242	0.10	U
12672-29-6	Aroclor-1248	0.10	U
11097-69-1	Aroclor-1254	0.10	U
11096-82-5	Aroclor-1260	0.10	U

FORM I PCB

001481



001482



001483

Data File: E1D8511F.D
Report Date: 14-Jan-2003 17:09

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113F.B\E1D8511F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113R.B\E1D8511R.D
Inj Date : 14-JAN-2003 10:13
Sample Info: A1905-16D,AOC5WTB62W,MB-4924,pcb.sub,,
Misc Info : 0,,,1,,,,,,,,26-DEC-02,23-DEC-02,A1905
Cal Date : 14-JAN-2003 15:26
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

originally extracted for ETPH SDL 1/15/03

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	500.000	Volume of final extract (uL)
Vo	500.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

NO SS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio

1/14/03

001484

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC5WTB62WRE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-16ERE

Sample wt/vol: 500.0 (g/ml) ML Lab File ID: E1D8503F

% Moisture: _____ decanted: (Y/N)___ Date Received: 12/23/03

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 01/13/03

Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/13/03

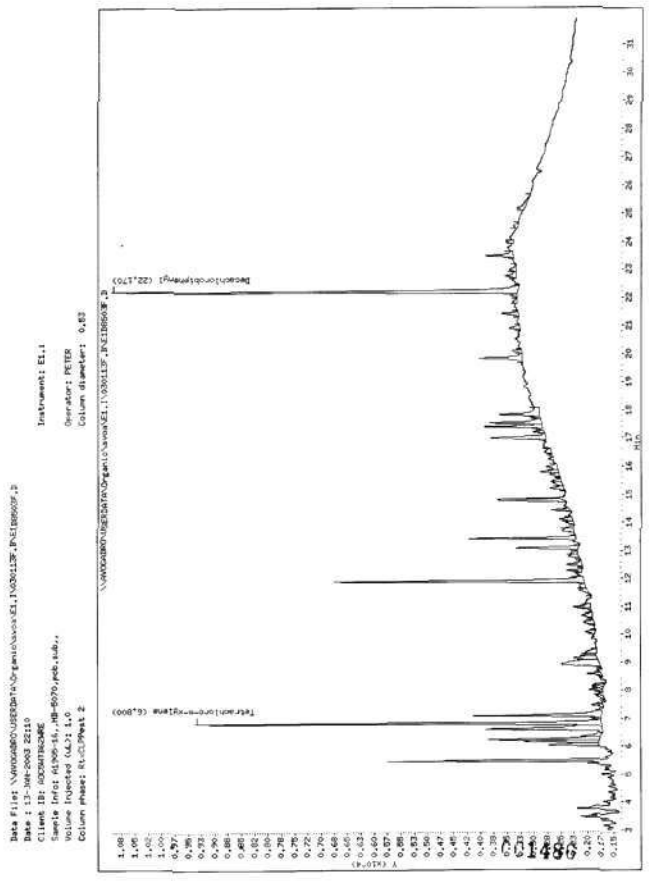
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

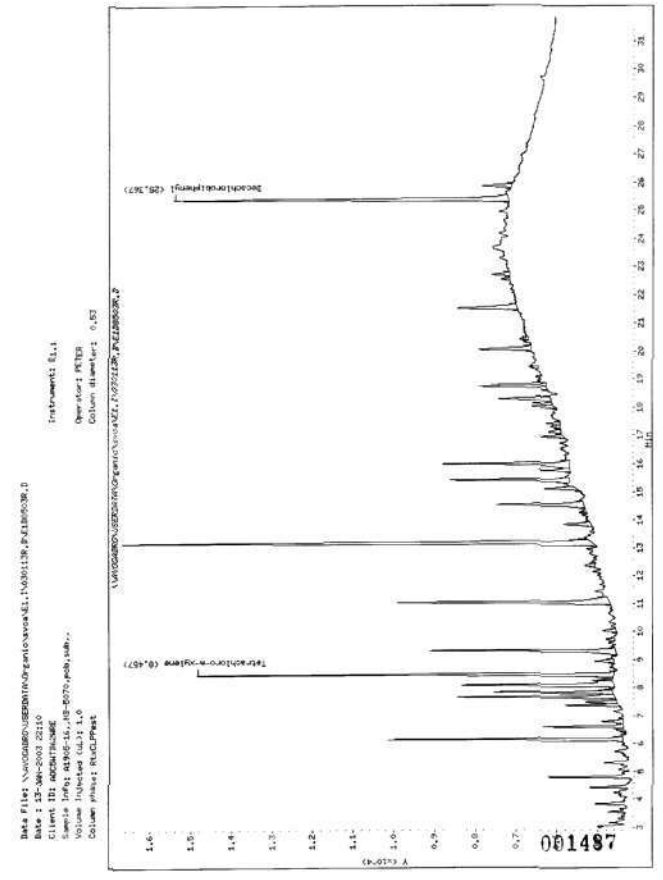
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

001485



1486



001487

Data File: E1D8503F.D
Report Date: 14-Jan-2003 17:09

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113F.B\E1D8503F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113R.B\E1D8503R.D
Inj Date : 13-JAN-2003 22:10
Sample Info: A1905-16,MB-5070,pcb.sub,,
Misc Info : 0,,,1,,,1,,,,13-JAN-03,10-JAN-03,A1905
Cal Date : 14-JAN-2003 15:26
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

AOC5WTB62W RE

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	5000.000	Volume of final extract (uL)
Vo	500.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.800	8.457	7630	10240	0.15	0.14		100.00
Decachlorobiphenyl	22.170	25.347	7621	8217	0.13	0.12		100.00

1/14

1488

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC7WTB65GW

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-18D

Sample wt/vol: 500.0 (g/ml) ML Lab File ID: E1D8512F

% Moisture: _____ decanted: (Y/N)___ Date Received: 12/23/02

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:12/26/02

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/14/03

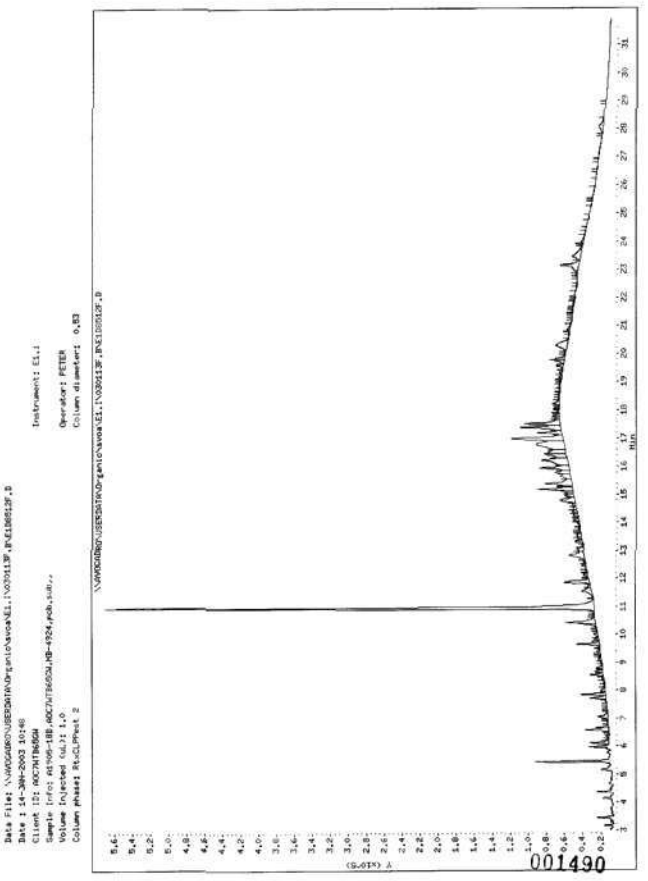
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

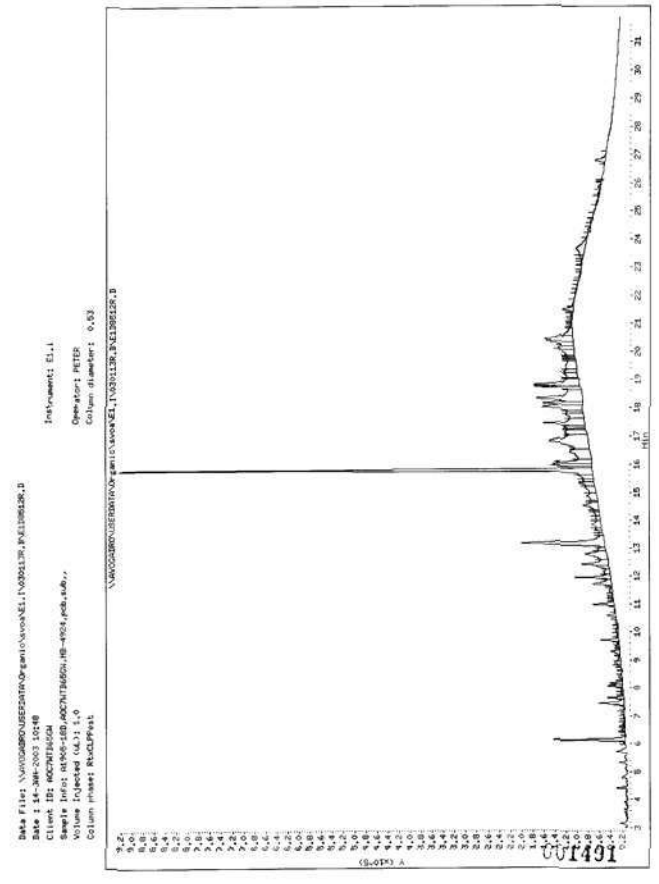
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.10	U
11104-28-2	Aroclor-1221	0.10	U
11141-16-5	Aroclor-1232	0.10	U
53469-21-9	Aroclor-1242	0.10	U
12672-29-6	Aroclor-1248	0.10	U
11097-69-1	Aroclor-1254	0.10	U
11096-82-5	Aroclor-1260	0.10	U

FORM I PCB

001489



001490



001491

Data File: E1D8512F.D
Report Date: 14-Jan-2003 17:10

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113F.B\E1D8512F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113R.B\E1D8512R.D
Inj Date : 14-JAN-2003 10:48
Sample Info: A1905-18D,AOC7WTB65GW,MB-4924,pcb.sub,,
Misc Info : 0,,,1,,,,,,,,26-DEC-02,23-DEC-02,A1905
Cal Date : 14-JAN-2003 15:26
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	500.000	Volume of final extract (uL)
Vo	500.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

original ltr extracted for TPH. SBL 1/15/03

No SS

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio

1/14/03

001492

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
AOC7WTB65GWRE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: A1905-18ERE

Sample wt/vol: 500.0 (g/ml) ML Lab File ID: E1D8504F

% Moisture: _____ decanted: (Y/N)___ Date Received: 12/23/03

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:01/13/03

Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/13/03

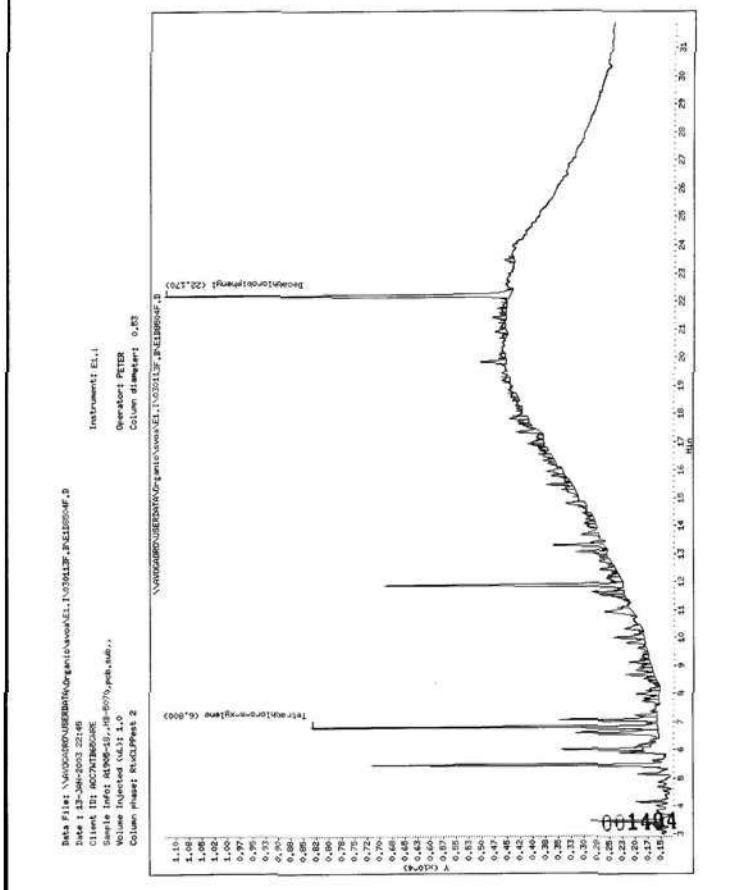
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

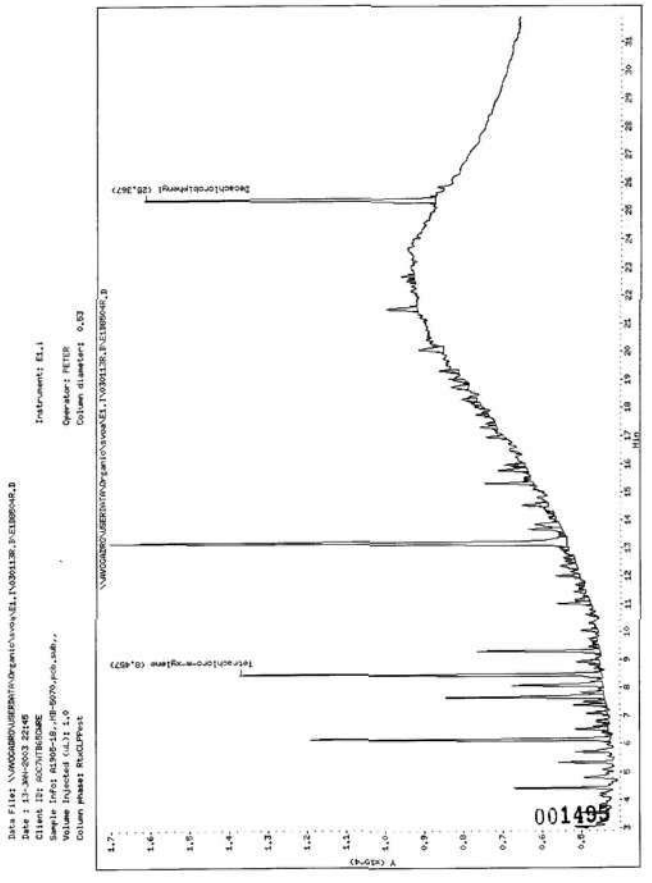
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

001493



001494



001495

Data File: E1D8504F.D
Report Date: 14-Jan-2003 17:09

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113F.B\E1D8504F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113R.B\E1D8504R.D
Inj Date : 13-JAN-2003 22:45
Sample Info: A1905-18E,MB-5070,pcb.sub,,
Misc Info : 0,,,1,,,,,,,,13-JAN-03,10-JAN-03,A1905
Cal Date : 14-JAN-2003 15:26
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

AOC7WTB65GWRE

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	5000.000	Volume of final extract (uL)
Vo	500.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.800	6.457	6802	9260	0.14	0.13		100.00
Decachlorobiphenyl	22.170	25.367	6769	7451	0.13	0.10		100.00

1/14/03

001496

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date(s): 12/21/02 12/21/02

Column: RTXCLPPEST 2 ID: 0.53 (mm) Calibration Time(s): 0130 1317

LAB FILE ID: RF0.1: E1D8299F RF0.5: E1D8300F RF1: E1D8301F
RF2.5: E1D8302F RF5: E1D8303F

COMPOUND	RF0.1	RF0.5	RF1	RF2.5	RF5
Aroclor-1016	14110.000	12826.000	12085.000	10928.400	9716.800
(2)	29070.000	25996.000	24341.000	21846.800	19326.000
(3)	16750.000	15228.000	14378.000	13058.000	11597.600
Aroclor-1221	5460.000	5504.000	5234.000	4875.200	4685.200
(2)	4200.000	4072.000	3799.000	3449.200	3133.200
(3)	15370.000	13860.000	12454.000	10782.000	9536.600
Aroclor-1232			11590.000		
(2)			7447.000		
(3)			11362.000		
Aroclor-1242	22040.000	20604.000	19459.000	17220.400	15312.800
(2)	12430.000	12092.000	11558.000	10300.400	9201.600
(3)	10980.000	10446.000	10015.000	8962.000	7983.800
Aroclor-1248	17610.000	17002.000	15027.000	13898.400	12399.000
(2)	20620.000	19850.000	17641.000	16575.200	14808.400
(3)	19430.000	18572.000	16697.000	15860.000	14228.400
Aroclor-1254	18680.000	16086.000	14585.000	12646.400	11393.400
(2)	30680.000	28502.000	25877.000	23467.200	21119.800
(3)	26330.000	24438.000	22396.000	20153.600	18537.400
Aroclor-1260	35060.000	31518.000	29805.000	26858.400	23934.800
(2)	48090.000	42850.000	40246.000	36780.800	32984.600
(3)	25640.000	24692.000	23594.000	21921.600	19892.200
Tetrachloro-m-xylene	468500.00	510500.00	531100.00	524960.00	481730.00
Decachlorobiphenyl	697500.00	628700.00	583550.00	526980.00	469760.00

FORM VI PCB

001497

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date(s): 12/21/02 12/21/02

Column: RTXCLPPEST 2 ID: 0.53 (mm) Calibration Time(s): 0130 1317

COMPOUND	CURVE	COEFFICIENT A1	%RSD OR R^2
Aroclor-1016	AVRG	11933.2400	14.2
(2)	AVRG	24115.9600	15.5
(3)	AVRG	14202.3200	13.9
Aroclor-1221	AVRG	5111.68000	8.4
(2)	AVRG	3730.68000	11.8
(3)	AVRG	12396.5200	18.8
Aroclor-1232	AVRG	11590.0000	0.0
(2)	AVRG	7447.00000	0.0
(3)	AVRG	11362.0000	0.0
Aroclor-1242	AVRG	18931.2400	14.1
(2)	AVRG	11116.4000	12.1
(3)	AVRG	9677.36000	12.4
Aroclor-1248	AVRG	15187.2800	14.2
(2)	AVRG	17900.9200	13.3
(3)	AVRG	16957.4800	12.3
Aroclor-1254	AVRG	14678.1600	19.5
(2)	AVRG	25933.2600	14.7
(3)	AVRG	22371.0000	14.0
Aroclor-1260	AVRG	29455.2400	14.5
(2)	AVRG	40190.2800	14.3
(3)	AVRG	23147.9600	9.9
Tetrachloro-m-xylene	AVRG	503358.000	5.4
Decachlorobiphenyl	AVRG	581298.000	15.2

FORM VI PCB

001498

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date(s): 12/21/02 12/21/02

Column: RTXCLPPEST ID: 0.53 (mm) Calibration Time(s): 0130 1317

LAB FILE ID: RF0.1: E1D8299R RF0.5: E1D8300R RF1: E1D8301R
RF2.5: E1D8302R RF5: E1D8303R

COMPOUND	RF0.1	RF0.5	RF1	RF2.5	RF5
Aroclor-1016	52950.000	49124.000	47593.000	44661.200	40483.400
(2)	29670.000	25156.000	23914.000	22091.600	20086.400
(3)	25460.000	21444.000	20439.000	18978.000	17367.200
Aroclor-1221	9320.000	8796.000	8332.000	7790.000	7256.200
(2)	7130.000	6548.000	6057.000	5506.000	5035.600
(3)	24000.000	20718.000	18728.000	16536.000	15014.000
Aroclor-1232			17557.000		
(2)			11773.000		
(3)			20896.000		
Aroclor-1242	38790.000	37792.000	37172.000	34340.800	31591.800
(2)	22040.000	19744.000	18792.000	17126.400	15643.200
(3)	20110.000	19192.000	18476.000	17442.800	16440.800
Aroclor-1248	29750.000	28084.000	25208.000	24294.000	22304.200
(2)	34310.000	31632.000	28477.000	28020.400	25953.600
(3)	37610.000	34342.000	31242.000	31133.200	29053.400
Aroclor-1254	43470.000	36630.000	32949.000	29369.200	27175.600
(2)	51420.000	49292.000	45916.000	42516.800	40196.600
(3)	40200.000	38130.000	36441.000	34414.000	32956.600
Aroclor-1260	57230.000	47432.000	44303.000	40690.000	37391.600
(2)	51170.000	47998.000	45836.000	44298.000	41940.200
(3)	71400.000	65122.000	64047.000	62343.600	60012.200
Tetrachloro-m-xylene	694500.00	711000.00	748000.00	786440.00	767690.00
Decachlorobiphenyl	812000.00	737000.00	700050.00	671420.00	636620.00

FORM VI PCB

001499

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date(s): 12/21/02 12/21/02

Column: RTXCLPPEST ID: 0.53 (mm) Calibration Time(s): 0130 1317

COMPOUND	CURVE	COEFFICIENT A1	%RSD OR R^2
Aroclor-1016	AVRG	46962.3200	10.0
(2)	AVRG	24183.6000	14.9
(3)	AVRG	20737.6400	14.7
Aroclor-1221	AVRG	8298.84000	9.8
(2)	AVRG	6055.32000	13.7
(3)	AVRG	18599.2000	18.6
Aroclor-1232	AVRG	17557.0000	0.0
(2)	AVRG	11773.0000	0.0
(3)	AVRG	20896.0000	0.0
Aroclor-1242	AVRG	36137.3200	8.9
(2)	AVRG	18669.1200	13.1
(3)	AVRG	18332.3200	7.8
Aroclor-1248	AVRG	25928.0400	11.5
(2)	AVRG	29678.6000	11.1
(3)	AVRG	32676.1200	10.2
Aroclor-1254	AVRG	33918.7600	19.0
(2)	AVRG	45868.2800	10.1
(3)	AVRG	36428.3200	7.9
Aroclor-1260	AVRG	45409.3200	16.8
(2)	AVRG	46248.4400	7.6
(3)	AVRG	64584.9600	6.6
Tetrachloro-m-xylene	AVRG	741526.000	5.2
Decachlorobiphenyl	AVRG	711418.000	9.4

FORM VI PCB

001500

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date(s): 12/21/02 12/21/02

Column: RTXCLPPEST 2 ID: 0.53 (mm) Calibration Time(s): 0130 1317

LAB FILE ID: RT1: E1D8299F RT2: E1D8300F RT3: E1D8301F
RT4: E1D8302F RT5: E1D8303F

COMPOUND	RT1	RT2	RT3	RT4	RT5
Aroclor-1016	12.040	12.030	12.030	12.020	12.020
(2)	10.490	10.490	10.480	10.480	10.480
(3)	10.870	10.860	10.860	10.850	10.850
Aroclor-1221	7.470	7.470	7.470	7.470	7.460
(2)	7.920	7.920	7.920	7.920	7.920
(3)	8.040	8.040	8.040	8.040	8.040
Aroclor-1232			8.030		
(2)			9.120		
(3)			10.480		
Aroclor-1242	10.480	10.480	10.480	10.480	10.480
(2)	10.860	10.860	10.860	10.850	10.850
(3)	12.030	12.030	12.030	12.020	12.020
Aroclor-1248	12.030	12.020	12.020	12.020	12.020
(2)	13.210	13.200	13.200	13.200	13.200
(3)	13.260	13.260	13.260	13.260	13.260
Aroclor-1254	13.090	13.090	13.090	13.090	13.090
(2)	14.860	14.860	14.860	14.860	14.860
(3)	16.840	16.830	16.830	16.830	16.830
Aroclor-1260	16.840	16.830	16.830	16.820	16.820
(2)	18.610	18.600	18.600	18.590	18.590
(3)	19.330	19.320	19.320	19.310	19.310
Tetrachloro-m-xylene	6.810	6.810	6.810	6.800	6.800
Decachlorobiphenyl	22.180	22.180	22.170	22.170	22.170

FORM VI PCB

001501

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date(s): 12/21/02 12/21/02

Column: RTXCLPPEST 2 ID: 0.53 (mm) Calibration Time(s): 0130 1317

COMPOUND	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016	12.028	11.950	12.090
(2)	10.484	10.407	10.547
(3)	10.858	10.777	10.917
Aroclor-1221	7.468	7.393	7.533
(2)	7.920	7.847	7.987
(3)	8.040	7.967	8.107
Aroclor-1232	8.030	7.963	8.103
(2)	9.120	9.053	9.193
(3)	10.480	10.410	10.550
Aroclor-1242	10.480	10.410	10.550
(2)	10.856	10.780	10.920
(3)	12.026	11.950	12.090
Aroclor-1248	12.022	11.953	12.093
(2)	13.202	13.127	13.267
(3)	13.260	13.190	13.330
Aroclor-1254	13.090	13.020	13.160
(2)	14.860	14.790	14.930
(3)	16.832	16.763	16.903
Aroclor-1260	16.828	16.750	16.890
(2)	18.598	18.523	18.663
(3)	19.318	19.237	19.377
Tetrachloro-m-xylene	6.806	6.747	6.847
Decachlorobiphenyl	22.174	22.067	22.267

FORM VI PCB

001502

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E2 Calibration Date(s): 12/21/02 12/21/02

Column: RTXCLPPEST ID: 0.53 (mm) Calibration Time(s): 0130 1317

LAB FILE ID: RT1: E1D8299R RT2: E1D8300R RT3: E1D8301R
RT4: E1D8302R RT5: E1D8303R

COMPOUND	RT1	RT2	RT3	RT4	RT5
Aroclor-1016	12.800	12.800	12.800	12.800	12.790
(2)	13.190	13.190	13.190	13.180	13.180
(3)	14.540	14.540	14.540	14.530	14.530
Aroclor-1221	9.530	9.530	9.530	9.530	9.530
(2)	9.980	9.980	9.980	9.990	9.990
(3)	10.170	10.170	10.170	10.170	10.170
Aroclor-1232			10.170		
(2)			11.440		
(3)			12.790		
Aroclor-1242	12.790	12.800	12.800	12.800	12.800
(2)	13.180	13.190	13.190	13.180	13.180
(3)	15.710	15.720	15.720	15.710	15.710
Aroclor-1248	14.530	14.530	14.530	14.530	14.530
(2)	15.600	15.600	15.600	15.600	15.600
(3)	15.710	15.710	15.720	15.720	15.720
Aroclor-1254	16.250	16.250	16.250	16.250	16.250
(2)	17.480	17.480	17.480	17.480	17.490
(3)	19.530	19.530	19.530	19.530	19.530
Aroclor-1260	18.590	18.590	18.590	18.580	18.580
(2)	19.530	19.530	19.520	19.520	19.520
(3)	21.230	21.230	21.220	21.220	21.220
Tetrachloro-m-xylene	8.460	8.460	8.460	8.460	8.460
Decachlorobiphenyl	25.380	25.380	25.370	25.370	25.370

FORM VI PCB

001503

FORM 6
PCB INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date(s): 12/21/02 12/21/02

Column: RTXCLPPEST ID: 0.53 (mm) Calibration Time(s): 0130 1317

COMPOUND	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016	12.798	12.723	12.863
(2)	13.186	13.113	13.253
(3)	14.536	14.460	14.600
Aroclor-1221	9.530	9.463	9.603
(2)	9.984	9.917	10.057
(3)	10.170	10.103	10.243
Aroclor-1232	10.170	10.097	10.237
(2)	11.440	11.373	11.513
(3)	12.790	12.723	12.863
Aroclor-1242	12.798	12.727	12.867
(2)	13.184	13.113	13.253
(3)	15.714	15.643	15.783
Aroclor-1248	14.530	14.463	14.603
(2)	15.600	15.530	15.670
(3)	15.716	15.647	15.787
Aroclor-1254	16.250	16.183	16.323
(2)	17.482	17.417	17.557
(3)	19.530	19.463	19.603
Aroclor-1260	18.586	18.513	18.653
(2)	19.524	19.450	19.590
(3)	21.224	21.147	21.287
Tetrachloro-m-xylene	8.460	8.407	8.507
Decachlorobiphenyl	25.374	25.270	25.470

FORM VI PCB

001504

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date: 12/30/02 Time: 1217

Lab File ID: E1D8343F Init. Calib. Date(s): 12/21/02 12/21/02

Init. Calib. Times: 1056 1317

GC Column: RTXCLPPEST 2 ID: 0.53 (mm)

COMPOUND	RRF	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	11933.240	12310.000	0.01	3.2	15.0
(2)	24115.960	23916.000	0.01	0.8	15.0
(3)	14202.320	14269.000	0.01	0.5	15.0
Aroclor-1260	29455.240	30451.000	0.01	3.4	15.0
(2)	40190.280	41583.000	0.01	3.5	15.0
(3)	23147.960	24516.000	0.01	5.9	15.0
Tetrachloro-m-xylene	503358.00	540050.00	0.01	7.3	15.0
Decachlorobiphenyl	581298.00	599000.00	0.01	3.0	15.0

FORM VII PCB

001505

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date: 12/30/02 Time: 1217

Lab File ID: E1D8343R Init. Calib. Date(s): 12/21/02 12/21/02

Init. Calib. Times: 1056 1317

GC Column: RTXCLPPEST ID: 0.53 (mm)

COMPOUND	RRF	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	46962.320	45550.000	0.01	3.0	15.0
(2)	24183.600	22769.000	0.01	5.8	15.0
(3)	20737.640	19548.000	0.01	5.7	15.0
Aroclor-1260	45409.320	43183.000	0.01	4.9	15.0
(2)	46248.440	44946.000	0.01	2.8	15.0
(3)	64584.960	62725.000	0.01	2.9	15.0
Tetrachloro-m-xylene	741526.00	701200.00	0.01	5.4	15.0
Decachlorobiphenyl	711418.00	645000.00	0.01	9.3	15.0

FORM VII PCB

001506

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date: 12/30/02 Time: 2141

Lab File ID: E1D8359F Init. Calib. Date(s): 12/21/02 12/21/02

Init. Calib. Times: 1056 1317

GC Column: RTXCLPPEST 2 ID: 0.53 (mm)

COMPOUND	RRF	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	11933.240	12253.000	0.01	2.7	15.0
(2)	24115.960	24083.000	0.01	0.1	15.0
(3)	14202.320	14375.000	0.01	1.2	15.0
Aroclor-1260	29455.240	30674.000	0.01	4.1	15.0
(2)	40190.280	42095.000	0.01	4.7	15.0
(3)	23147.960	24801.000	0.01	7.1	15.0
Tetrachloro-m-xylene	503358.00	532900.00	0.01	5.9	15.0
Decachlorobiphenyl	581298.00	603850.00	0.01	3.9	15.0

FORM VII PCB

001507

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date: 12/30/02 Time: 2141

Lab File ID: E1D8359R Init. Calib. Date(s): 12/21/02 12/21/02

Init. Calib. Times: 1056 1317

GC Column: RTXCLPPEST ID: 0.53 (mm)

COMPOUND	RRF	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	46962.320	46076.000	0.01	1.9	15.0
(2)	24183.600	23039.000	0.01	4.7	15.0
(3)	20737.640	19861.000	0.01	4.2	15.0
Aroclor-1260	45409.320	44296.000	0.01	2.4	15.0
(2)	46248.440	45816.000	0.01	0.9	15.0
(3)	64584.960	64215.000	0.01	0.6	15.0
Tetrachloro-m-xylene	741526.00	706200.00	0.01	4.8	15.0
Decachlorobiphenyl	711418.00	677750.00	0.01	4.7	15.0

FORM VII PCB

001508

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date: 12/31/02 Time: 0335

Lab File ID: E1D8369F Init. Calib. Date(s): 12/21/02 12/21/02

Init. Calib. Times: 1056 1317

GC Column: RTXCLPPEST 2 ID: 0.53 (mm)

COMPOUND	RRF	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	11933.240	12317.000	0.01	3.2	15.0
(2)	24115.960	24689.000	0.01	2.4	15.0
(3)	14202.320	14597.000	0.01	2.8	15.0
Aroclor-1260	29455.240	30767.000	0.01	4.4	15.0
(2)	40190.280	42065.000	0.01	4.7	15.0
(3)	23147.960	24904.000	0.01	7.6	15.0
Tetrachloro-m-xylene	503358.00	540450.00	0.01	7.4	15.0
Decachlorobiphenyl	581298.00	617000.00	0.01	6.1	15.0

FORM VII PCB

001509

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date: 12/31/02 Time: 0335

Lab File ID: E1D8369R Init. Calib. Date(s): 12/21/02 12/21/02

Init. Calib. Times: 1056 1317

GC Column: RTXCLPPEST ID: 0.53 (mm)

COMPOUND	RRF	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	46962.320	46095.000	0.01	1.8	15.0
(2)	24183.600	23019.000	0.01	4.8	15.0
(3)	20737.640	19816.000	0.01	4.4	15.0
Aroclor-1260	45409.320	43772.000	0.01	3.6	15.0
(2)	46248.440	45134.000	0.01	2.4	15.0
(3)	64584.960	62400.000	0.01	3.4	15.0
Tetrachloro-m-xylene	741526.00	711200.00	0.01	4.1	15.0
Decachlorobiphenyl	711418.00	676500.00	0.01	4.9	15.0

FORM VII PCB

001510

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date: 12/31/02 Time: 1145

Lab File ID: E1D8374F Init. Calib. Date(s): 12/21/02 12/21/02

Init. Calib. Times: 1056 1317

GC Column: RTXCLPPEST 2 ID: 0.53 (mm)

COMPOUND	RRF	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	11933.240	12385.000	0.01	3.8	15.0
(2)	24115.960	24540.000	0.01	1.8	15.0
(3)	14202.320	14467.000	0.01	1.9	15.0
Aroclor-1260	29455.240	30902.000	0.01	4.9	15.0
(2)	40190.280	42294.000	0.01	5.2	15.0
(3)	23147.960	24936.000	0.01	7.7	15.0
Tetrachloro-m-xylene	503358.00	535600.00	0.01	6.4	15.0
Decachlorobiphenyl	581298.00	606800.00	0.01	4.4	15.0

FORM VII PCB

001511

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date: 12/31/02 Time: 1145

Lab File ID: E1D8374R Init. Calib. Date(s): 12/21/02 12/21/02

Init. Calib. Times: 1056 1317

GC Column: RTXCLPPEST ID: 0.53 (mm)

COMPOUND	RRF	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	46962.320	46010.000	0.01	2.0	15.0
(2)	24183.600	22997.000	0.01	4.9	15.0
(3)	20737.640	19854.000	0.01	4.3	15.0
Aroclor-1260	45409.320	44102.000	0.01	2.9	15.0
(2)	46248.440	45826.000	0.01	0.9	15.0
(3)	64584.960	64360.000	0.01	0.3	15.0
Tetrachloro-m-xylene	741526.00	714650.00	0.01	3.6	15.0
Decachlorobiphenyl	711418.00	673000.00	0.01	5.4	15.0

FORM VII PCB

001512

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date: 12/31/02 Time: 2034

Lab File ID: E1D8389F Init. Calib. Date(s): 12/21/02 12/21/02

Init. Calib. Times: 1056 1317

GC Column: RTXCLPPEST 2 ID: 0.53 (mm)

COMPOUND	RRF	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	11933.240	12266.000	0.01	2.8	15.0
(2)	24115.960	24486.000	0.01	1.5	15.0
(3)	14202.320	14481.000	0.01	2.0	15.0
Aroclor-1260	29455.240	30971.000	0.01	5.1	15.0
(2)	40190.280	42266.000	0.01	5.2	15.0
(3)	23147.960	24962.000	0.01	7.8	15.0
Tetrachloro-m-xylene	503358.00	534100.00	0.01	6.1	15.0
Decachlorobiphenyl	581298.00	609800.00	0.01	4.9	15.0

FORM VII PCB

001513

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date: 12/31/02 Time: 2034

Lab File ID: E1D8389R Init. Calib. Date(s): 12/21/02 12/21/02

Init. Calib. Times: 1056 1317

GC Column: RTXCLPPEST ID: 0.53 (mm)

COMPOUND	RRF	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	46962.320	45848.000	0.01	2.4	15.0
(2)	24183.600	22951.000	0.01	5.1	15.0
(3)	20737.640	19969.000	0.01	3.7	15.0
Aroclor-1260	45409.320	43710.000	0.01	3.7	15.0
(2)	46248.440	45639.000	0.01	1.3	15.0
(3)	64584.960	64147.000	0.01	0.7	15.0
Tetrachloro-m-xylene	741526.00	708900.00	0.01	4.4	15.0
Decachlorobiphenyl	711418.00	689800.00	0.01	3.0	15.0

FORM VII PCB

001514

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date: 01/03/03 Time: 1206

Lab File ID: E1D8395F Init. Calib. Date(s): 12/21/02 12/21/02

Init. Calib. Times: 1056 1317

GC Column: RTXCLPPEST 2 ID: 0.53 (mm)

COMPOUND	RRF	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	11933.240	11570.000	0.01	3.0	15.0
(2)	24115.960	23013.000	0.01	4.6	15.0
(3)	14202.320	13758.000	0.01	3.1	15.0
Aroclor-1260	29455.240	29710.000	0.01	0.9	15.0
(2)	40190.280	40912.000	0.01	1.8	15.0
(3)	23147.960	22728.000	0.01	1.8	15.0
Tetrachloro-m-xylene	503358.00	530100.00	0.01	5.3	15.0
Decachlorobiphenyl	581298.00	582400.00	0.01	0.2	15.0

FORM VII PCB

001515

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date: 01/03/03 Time: 1206

Lab File ID: E1D8395R Init. Calib. Date(s): 12/21/02 12/21/02

Init. Calib. Times: 1056 1317

GC Column: RTXCLPPEST ID: 0.53 (mm)

COMPOUND	RRF	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	46962.320	46207.000	0.01	1.6	15.0
(2)	24183.600	23166.000	0.01	4.2	15.0
(3)	20737.640	20017.000	0.01	3.5	15.0
Aroclor-1260	45409.320	44270.000	0.01	2.5	15.0
(2)	46248.440	46612.000	0.01	0.8	15.0
(3)	64584.960	64942.000	0.01	0.6	15.0
Tetrachloro-m-xylene	741526.00	715650.00	0.01	3.5	15.0
Decachlorobiphenyl	711418.00	658050.00	0.01	7.5	15.0

FORM VII PCB

001516

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date: 01/03/03 Time: 2021

Lab File ID: E1D8409F Init. Calib. Date(s): 12/21/02 12/21/02

Init. Calib. Times: 1056 1317

GC Column: RTXCLPPEST 2 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	11933.240	12149.000	0.01	1.8	15.0
(2)	24115.960	23519.000	0.01	2.5	15.0
(3)	14202.320	13965.000	0.01	1.7	15.0
Aroclor-1260	29455.240	30180.000	0.01	2.5	15.0
(2)	40190.280	41230.000	0.01	2.6	15.0
(3)	23147.960	24189.000	0.01	4.5	15.0
Tetrachloro-m-xylene	503358.00	532200.00	0.01	5.7	15.0
Decachlorobiphenyl	581298.00	597450.00	0.01	2.8	15.0

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date: 01/03/03 Time: 2021

Lab File ID: E1D8409R Init. Calib. Date(s): 12/21/02 12/21/02

Init. Calib. Times: 1056 1317

GC Column: RTXCLPPEST ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	46962.320	46339.000	0.01	1.3	15.0
(2)	24183.600	23335.000	0.01	3.5	15.0
(3)	20737.640	20116.000	0.01	3.0	15.0
Aroclor-1260	45409.320	44368.000	0.01	2.3	15.0
(2)	46248.440	46202.000	0.01	0.1	15.0
(3)	64584.960	65498.000	0.01	1.4	15.0
Tetrachloro-m-xylene	741526.00	725700.00	0.01	2.1	15.0
Decachlorobiphenyl	711418.00	681000.00	0.01	4.3	15.0

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date: 01/06/03 Time: 1132

Lab File ID: E1D8430F Init. Calib. Date(s): 12/21/02 12/21/02

Init. Calib. Times: 1056 1317

GC Column: RTXCLPPEST 2 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	11933.240	11849.000	0.01	0.7	15.0
(2)	24115.960	22520.000	0.01	6.6	15.0
(3)	14202.320	13516.000	0.01	4.8	15.0
Aroclor-1260	29455.240	29318.000	0.01	0.5	15.0
(2)	40190.280	40053.000	0.01	0.3	15.0
(3)	23147.960	23337.000	0.01	0.8	15.0
Tetrachloro-m-xylene	503358.00	523700.00	0.01	4.0	15.0
Decachlorobiphenyl	581298.00	575900.00	0.01	0.9	15.0

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date: 01/06/03 Time: 1132

Lab File ID: E1D8430R Init. Calib. Date(s): 12/21/02 12/21/02

Init. Calib. Times: 1056 1317

GC Column: RTXCLPPEST ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	46962.320	44869.000	0.01	4.4	15.0
(2)	24183.600	22524.000	0.01	6.9	15.0
(3)	20737.640	19593.000	0.01	5.5	15.0
Aroclor-1260	45409.320	43544.000	0.01	4.1	15.0
(2)	46248.440	45473.000	0.01	1.7	15.0
(3)	64584.960	63916.000	0.01	1.0	15.0
Tetrachloro-m-xylene	741526.00	696500.00	0.01	6.1	15.0
Decachlorobiphenyl	711418.00	647450.00	0.01	9.0	15.0

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date: 01/06/03 Time: 1615

Lab File ID: E1D8438F Init. Calib. Date(s): 12/21/02 12/21/02

Init. Calib. Times: 1056 1317

GC Column: RTXCLPPEST 2 ID: 0.53 (mm)

COMPOUND	RRF	RRF1	MIN RRF	%D	MAX %D	
Aroclor-1016	11933.240	13790.000	0.01	15.6	15.0	<-
(2)	24115.960	27203.000	0.01	12.8	15.0	
(3)	14202.320	16212.000	0.01	14.2	15.0	
Aroclor-1260	29455.240	34992.000	0.01	18.8	15.0	<-
(2)	40190.280	48065.000	0.01	19.6	15.0	<-
(3)	23147.960	27575.000	0.01	19.1	15.0	<-
Tetrachloro-m-xylene	503358.00	630950.00	0.01	25.3	15.0	<-
Decachlorobiphenyl	581298.00	689850.00	0.01	18.7	15.0	<-

FORM VII PCB

001521

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date: 01/06/03 Time: 1615

Lab File ID: E1D8438R Init. Calib. Date(s): 12/21/02 12/21/02

Init. Calib. Times: 1056 1317

GC Column: RTXCLPPEST ID: 0.53 (mm)

COMPOUND	RRF	RRF1	MIN RRF	%D	MAX %D	
Aroclor-1016	46962.320	53522.000	0.01	14.0	15.0	
(2)	24183.600	26825.000	0.01	10.9	15.0	
(3)	20737.640	23202.000	0.01	11.9	15.0	
Aroclor-1260	45409.320	51090.000	0.01	12.5	15.0	
(2)	46248.440	54492.000	0.01	17.8	15.0	<-
(3)	64584.960	76688.000	0.01	18.7	15.0	<-
Tetrachloro-m-xylene	741526.00	850000.00	0.01	14.6	15.0	
Decachlorobiphenyl	711418.00	784950.00	0.01	10.3	15.0	

FORM VII PCB

001522

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date: 01/13/03 Time: 1333

Lab File ID: E1D8493F Init. Calib. Date(s): 12/21/02 12/21/02

Init. Calib. Times: 1056 1317

GC Column: RTXCLPPEST 2 ID: 0.53 (mm)

COMPOUND	RRF	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	11933.240	12126.000	0.01	1.6	15.0
(2)	24115.960	24244.000	0.01	0.5	15.0
(3)	14202.320	14483.000	0.01	2.0	15.0
Aroclor-1260	29455.240	30850.000	0.01	4.7	15.0
(2)	40190.280	41453.000	0.01	3.1	15.0
(3)	23147.960	24685.000	0.01	6.6	15.0
Tetrachloro-m-xylene	503358.00	540450.00	0.01	7.4	15.0
Decachlorobiphenyl	581298.00	584350.00	0.01	0.5	15.0

FORM VII PCB

001523

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date: 01/13/03 Time: 1333

Lab File ID: E1D8493R Init. Calib. Date(s): 12/21/02 12/21/02

Init. Calib. Times: 1056 1317

GC Column: RTXCLPPEST ID: 0.53 (mm)

COMPOUND	RRF	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	46962.320	44416.000	0.01	5.4	15.0
(2)	24183.600	22317.000	0.01	7.7	15.0
(3)	20737.640	19359.000	0.01	6.6	15.0
Aroclor-1260	45409.320	42577.000	0.01	6.2	15.0
(2)	46248.440	43699.000	0.01	5.5	15.0
(3)	64584.960	61526.000	0.01	4.7	15.0
Tetrachloro-m-xylene	741526.00	688700.00	0.01	7.1	15.0
Decachlorobiphenyl	711418.00	609900.00	0.01	14.3	15.0

FORM VII PCB

001524

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date: 01/14/03 Time: 0142

Lab File ID: E1D8509F Init. Calib. Date(s): 12/21/02 12/21/02

Init. Calib. Times: 1056 1317

GC Column: RTXCLPPEST 2 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	11933.240	11837.000	0.01	0.8	15.0
(2)	24115.960	23692.000	0.01	1.8	15.0
(3)	14202.320	13731.000	0.01	3.3	15.0
Aroclor-1260	29455.240	30286.000	0.01	2.8	15.0
(2)	40190.280	41515.000	0.01	3.3	15.0
(3)	23147.960	24837.000	0.01	7.3	15.0
Tetrachloro-m-xylene	503358.00	530000.00	0.01	5.3	15.0
Decachlorobiphenyl	581298.00	592100.00	0.01	1.8	15.0

FORM VII PCB

001525

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date: 01/14/03 Time: 0142

Lab File ID: E1D8509R Init. Calib. Date(s): 12/21/02 12/21/02

Init. Calib. Times: 1056 1317

GC Column: RTXCLPPEST ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	46962.320	44493.000	0.01	5.2	15.0
(2)	*24183.600*	*22257.000*	*0.01*	*8.0*	*15.0*
(3)	20737.640	19405.000	0.01	6.4	15.0
Aroclor-1260	45409.320	42681.000	0.01	6.0	15.0
(2)	46248.440	44420.000	0.01	4.0	15.0
(3)	64584.960	62173.000	0.01	3.7	15.0
Tetrachloro-m-xylene	741526.00	685450.00	0.01	7.6	15.0
Decachlorobiphenyl	711418.00	646950.00	0.01	9.1	15.0

FORM VII PCB

001526

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date: 01/14/03 Time: 1159

Lab File ID: E1D8514F Init. Calib. Date(s): 12/21/02 12/21/02

Init. Calib. Times: 1056 1317

GC Column: RTXCLPPEST 2 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF1	MIN RRF	%D	MAX %D
Aroclor-1016	11933.240	11480.000	0.01	3.8	15.0
(2)	24115.960	23805.000	0.01	1.3	15.0
(3)	14202.320	14082.000	0.01	0.8	15.0
Aroclor-1260	29455.240	28547.000	0.01	3.1	15.0
(2)	40190.280	38819.000	0.01	3.4	15.0
(3)	23147.960	23173.000	0.01	0.1	15.0
Tetrachloro-m-xylene	503358.00	522700.00	0.01	3.8	15.0
Decachlorobiphenyl	581298.00	548900.00	0.01	5.6	15.0

FORM VII PCB

001527

FORM 7
PCB CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID: E1 Calibration Date: 01/14/03 Time: 1159

Lab File ID: E1D8514R Init. Calib. Date(s): 12/21/02 12/21/02

Init. Calib. Times: 1056 1317

GC Column: RTXCLPPEST ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF1	MIN RRF	%D	MAX %D	
Aroclor-1016	46962.320	41977.000	0.01	10.6	15.0	
(2)	*24183.600*	*20899.000*	*0.01*	*13.6*	*15.0*	
(3)	20737.640	17787.000	0.01	14.2	15.0	
Aroclor-1260	45409.320	38123.000	0.01	16.0	15.0	<-
(2)	46248.440	39566.000	0.01	14.4	15.0	
(3)	64584.960	56164.000	0.01	13.0	15.0	
Tetrachloro-m-xylene	741526.00	648750.00	0.01	12.5	15.0	
Decachlorobiphenyl	711418.00	601250.00	0.01	15.5	15.0	<-

FORM VII PCB

001528

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

GC Column: RTXCLPPEST 2 ID: 0.53 (mm) Init. Calib. Date(s): 12/21/02 12/21/02

Instrument ID: E1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.80 DCB: 22.17

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR1232BL3	AR1232BL3	12/21/02	0130	6.80	22.17
02	AR1242BL1	AR1242BL1	12/21/02	0206	6.81	22.18
03	AR1242BL2	AR1242BL2	12/21/02	0241	6.80	22.17
04	AR1242BL3	AR1242BL3	12/21/02	0316	6.80	22.17
05	AR1242BL4	AR1242BL4	12/21/02	0352	6.80	22.17
06	AR1242BL5	AR1242BL5	12/21/02	0427	6.80	22.17
07	AR1248BL1	AR1248BL1	12/21/02	0502	6.81	22.18
08	AR1248BL2	AR1248BL2	12/21/02	0538	6.80	22.17
09	AR1248BL3	AR1248BL3	12/21/02	0613	6.80	22.17
10	AR1248BL4	AR1248BL4	12/21/02	0649	6.80	22.17
11	AR1248BL5	AR1248BL5	12/21/02	0724	6.80	22.17
12	AR2154BL1	AR2154BL1	12/21/02	0759	6.81	22.18
13	AR2154BL2	AR2154BL2	12/21/02	0835	6.81	22.18
14	AR2154BL3	AR2154BL3	12/21/02	0910	6.80	22.18
15	AR2154BL4	AR2154BL4	12/21/02	0945	6.81	22.18
16	AR2154BL5	AR2154BL5	12/21/02	1020	6.80	22.18
17	AR1660BL1	AR1660BL1	12/21/02	1056	6.81	22.18
18	AR1660BL2	AR1660BL2	12/21/02	1131	6.81	22.18
19	AR1660BL3	AR1660BL3	12/21/02	1207	6.81	22.17
20	AR1660BL4	AR1660BL4	12/21/02	1242	6.80	22.17
21	AR1660BL5	AR1660BL5	12/21/02	1317	6.80	22.17
22	AR1660BD	AR1660BD	12/30/02	1217	6.80	22.17
23	BBLK1B	MB-4933	12/30/02	1327	6.80	22.17
24	B1BLCS	LCS-4933	12/30/02	1403	6.80	22.17
25	B1BLCSD	LCSD-4933	12/30/02	1438	6.80	22.17
26	B1CLCS	LCS-4930	12/30/02	1513	6.80	22.17
27	B1CLCSD	LCSD-4930	12/30/02	1549	6.80	22.17
28	AOC3BB3	A1905-07A	12/30/02	1624	6.80	22.17
29	AOC3BB4	A1905-08A	12/30/02	1659	6.80	22.17
30	AOC5B7	A1905-14D	12/30/02	1734	6.80	22.17
31	AOC5ASSTB595	A1905-19A	12/30/02	1810	6.80	22.17
32	AOC5ASSD7A56	A1905-20A	12/30/02	1845	6.80	22.17

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

GC Column: RTXCLPPEST 2 ID: 0.53 (mm) Init. Calib. Date(s): 12/21/02 [illegible]2/21/02

Instrument ID: E1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BL[illegible]KS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.80 DCB: 22.17

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR1660BE	AR1660BE	12/30/02	214[illegible]	6.81	22.17
02	AOC5ASSD7B56	A1905-21A	12/30/02	22[illegible]2	6.80	22.17
03	AOC5ASSTB700	A1905-23C	12/30/02	[illegible]28	6.80	22.17
04	AOC5ASSTB680	A1905-25C	12/31/02	[illegible]003	6.80	22.17
05	AOC2TB24	A1905-28A	12/31/02	0038	6.80	22.17
06	AR1660BF	AR1660BF	12/31/02	0335	6.80	22.17
07	AR1660BG	AR1660BG	12/31/02	1145	6.81	22.17
08	BBLK1D	MB-4911	12/31/0[illegible]	1255	6.80	22.17
09	B1DLCS	LCS-4911	12/31/[illegible]	1406	6.80	22.17
10	B1DLCSD	LCSD-4911	12/3[illegible]02	1441	6.80	22.17
11	AOC2E6	A1905-26C	12/[illegible]/02	1516	6.80	22.17
12	AR1660BH	AR1660BH	1[illegible]31/02	2034	6.80	22.17
13	AR1660BG	AR1660BG	[illegible]/03/03	1206	6.81	22.17
14	BBLK1E	MB-4935	01/03/03	1316	6.81	22.17
15	B1ELCS	LCS-4935	01/03/03	1352	6.80	22.17
16	B1ELCSD	LCSD-4935	01/03/03	1427	6.80	22.17
17	AOC5ASSTB695	A1905-1[illegible]	01/03/03	1502	6.80	22.17
18	AOC5ASSD7A56	A1905[illegible]0A	01/03/03	1538	6.80	22.17
19	AOC5ASSD7B56	A19[illegible]21A	01/03/03	1613	6.81	22.17
20	AOC5ASSTB700	A1[illegible]5-23C	01/03/03	1649	6.81	22.17
21	AOC5ASSTB680	[illegible]905-25C	01/03/03	1724	6.80	22.17
22	AR1660BH	[illegible]R1660BH	01/03/03	2021	6.80	22.17
23	AR1660BJ	AR1660BJ	01/06/03	1132	6.80	22.17
24	BBLK1C	MB-4929	01/06/03	1243	6.80	22.17
25	AOC3SST[illegible]402	A1905-06C	01/06/03	1318	6.80	22.17
26	AR166[illegible]	AR1660BK	01/06/03	1615	6.80	22.17
27	AR16[illegible]BL	AR1660BL	01/13/03	1333	6.80	22.17
28	BB[illegible]1A	MB-5070	01/13/03	1727	6.81	22.18
29	[illegible]ALCS	LCS-5070	01/13/03	1802	6.80	22.17
30	[illegible]ALCSD	LCSD-5070	01/13/03	1838	6.80	22.17
3[illegible]	[illegible]OC5WTB62WRE	A1905-16ERE	01/13/03	2210	6.80	22.17
3[illegible]	AOC7WTB65GWR	A1905-18ERE	01/13/03	2245	6.80	22.17

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

GC Column: RTXCLPPEST 2 ID: 0.53 (mm) Init. Calib. Date(s): 12/21/02 12/21/02

Instrument ID: E1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.80 DCB: 22.17

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR1660BE	AR1660BE	12/30/02	2141	6.81	22.17
02	AOC5ASSD7B56	A1905-21A	12/30/02	2252	6.80	22.17
03	AOC5ASSTB700	A1905-23C	12/30/02	2328	6.80	22.17
04	AOC5ASSTB680	A1905-25C	12/31/02	0003	6.80	22.17
05	AOC2TB5624	A1905-28A	12/31/02	0038	6.80	22.17
06	AR1660BF	AR1660BF	12/31/02	0335	6.80	22.17
07	AR1660BG	AR1660BG	12/31/02	1145	6.81	22.17
08	BBLK1D	MB-4911	12/31/02	1255	6.80	22.17
09	B1DLCS	LCS-4911	12/31/02	1406	6.80	22.17
10	B1DLCSD	LCSD-4911	12/31/02	1441	6.80	22.17
11	AOC2E6	A1905-26C	12/31/02	1516	6.80	22.17
12	AR1660BH	AR1660BH	12/31/02	2034	6.80	22.17
13	AR1660BG	AR1660BG	01/03/03	1206	6.81	22.17
14	BBLK1E	MB-4935	01/03/03	1316	6.81	22.17
15	B1ELCS	LCS-4935	01/03/03	1352	6.80	22.17
16	B1ELCSD	LCSD-4935	01/03/03	1427	6.80	22.17
17	AOC5ASSTB695	A1905-19A	01/03/03	1502	6.80	22.17
18	AOC5ASSD7A56	A1905-20A	01/03/03	1538	6.80	22.17
19	AOC5ASSD7B56	A1905-21A	01/03/03	1613	6.81	22.17
20	AOC5ASSTB700	A1905-23C	01/03/03	1649	6.81	22.17
21	AOC5ASSTB680	A1905-25C	01/03/03	1724	6.80	22.17
22	AR1660BH	AR1660BH	01/03/03	2021	6.80	22.17
23	AR1660BJ	AR1660BJ	01/06/03	1132	6.80	22.17
24	BBLK1C	MB-4929	01/06/03	1243	6.80	22.17
25	AOC3SSTB5402	A1905-06C	01/06/03	1318	6.80	22.17
26	AR1660BK	AR1660BK	01/06/03	1615	6.80	22.17
27	AR1660BL	AR1660BL	01/13/03	1333	6.80	22.17
28	BBLK1A	MB-5070	01/13/03	1727	6.81	22.18
29	B1ALCS	LCS-5070	01/13/03	1802	6.80	22.17
30	B1ALCSD	LCSD-5070	01/13/03	1838	6.80	22.17
31	AOC5WTB62WRE	A1905-16ERE	01/13/03	2210	6.80	22.17
32	AOC7WTB65GWR	A1905-18ERE	01/13/03	2245	6.80	22.17

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

GC Column: RTXCLPPEST 2 ID: 0.53 (mm) Init. Calib. Date(s): 12/21/02 12/21/02

Instrument ID: B1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 6.80 DCB: 22.17

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR1660BM	AR1660BM	01/14/03	0142	6.80	22.17
02	BBLK1B	MB-4926	01/14/03	0938		
03	AOC5WTB62W	A1905-16D	01/14/03	1013		
04	AOC7WTB65GW	A1905-18D	01/14/03	1048		
05	AR1660BN	AR1660BN	01/14/03	1159	6.80	22.17
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

GC Column: RTXCLPPEST ID: 0.53 (mm) Init. Calib. Date(s): 12/21/02 12/21/02

Instrument ID: E1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 8.46 DCB: 25.37

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR1232BL3	AR1232BL3	12/21/02	0130	8.46	25.37
02	AR1242BL1	AR1242BL1	12/21/02	0206	8.46	25.37
03	AR1242BL2	AR1242BL2	12/21/02	0241	8.46	25.37
04	AR1242BL3	AR1242BL3	12/21/02	0316	8.46	25.37
05	AR1242BL4	AR1242BL4	12/21/02	0352	8.46	25.37
06	AR1242BL5	AR1242BL5	12/21/02	0427	8.46	25.37
07	AR1248BL1	AR1248BL1	12/21/02	0502	8.46	25.37
08	AR1248BL2	AR1248BL2	12/21/02	0538	8.46	25.37
09	AR1248BL3	AR1248BL3	12/21/02	0613	8.46	25.37
10	AR1248BL4	AR1248BL4	12/21/02	0649	8.46	25.37
11	AR1248BL5	AR1248BL5	12/21/02	0724	8.46	25.37
12	AR2154BL1	AR2154BL1	12/21/02	0759	8.46	25.37
13	AR2154BL2	AR2154BL2	12/21/02	0835	8.46	25.37
14	AR2154BL3	AR2154BL3	12/21/02	0910	8.46	25.37
15	AR2154BL4	AR2154BL4	12/21/02	0945	8.46	25.38
16	AR2154BL5	AR2154BL5	12/21/02	1020	8.46	25.38
17	AR1660BL1	AR1660BL1	12/21/02	1056	8.46	25.38
18	AR1660BL2	AR1660BL2	12/21/02	1131	8.46	25.38
19	AR1660BL3	AR1660BL3	12/21/02	1207	8.46	25.37
20	AR1660BL4	AR1660BL4	12/21/02	1242	8.46	25.37
21	AR1660BL5	AR1660BL5	12/21/02	1317	8.46	25.37
22	AR1660BD	AR1660BD	12/30/02	1217	8.46	25.37
23	BBLK1B	MB-4933	12/30/02	1329	8.46	25.37
24	B1BLCS	LCS-4933	12/30/02	1403	8.46	25.37
25	B1BLCSD	LCSD-4933	12/30/02	1438	8.46	25.36
26	B1CLCS	LCS-4930	12/30/02	1513	8.45	25.37
27	B1CLCSD	LCSD-4930	12/30/02	1549	8.45	25.37
28	AOC3BB3	A1905-07A	12/30/02	1624	8.46	25.37
29	AOC3BB4	A1905-08A	12/30/02	1659	8.45	25.37
30	AOC5E7	A1905-14D	12/30/02	1734	8.45	25.37
31	AOC5ASSTB695	A1905-19A	12/30/02	1810	8.45	25.37
32	AOC5ASSD7A56	A1905-20A	12/30/02	1845	8.46	25.37

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

GC Column: RTXCLPPEST ID: 0.53 (mm) Init. Calib. Date(s): 12/21/02 12/21/02

Instrument ID: E1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 8.46 DCB: 25.37

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR1660BE	AR1660BE	12/30/02	2141	8.46	25.37
02	AOC5ASSD7B56	A1905-21A	12/30/02	2252	8.46	25.37
03	AOC5ASSTB700	A1905-23C	12/30/02	2328	8.46	25.37
04	AOC5ASSTB680	A1905-25C	12/31/02	0003	8.46	25.37
05	AOC2TB24	A1905-28A	12/31/02	0038	8.46	25.37
06	AR1660BF	AR1660BF	12/31/02	0115	8.46	25.37
07	AR1660BG	AR1660BG	12/31/02	0145	8.46	25.37
08	BBLK1D	MB-4911	12/31/02	1255	8.46	25.37
09	B1DLCS	LCS-4911	12/31/02	1406	8.46	25.37
10	B1DLCSD	LCSD-4911	12/31/02	1441	8.46	25.37
11	AOC2E6	A1905-26C	12/31/02	1516	8.46	25.37
12	AR1660BH	AR1660BH	12/31/02	2034	8.46	25.37
13	AR1660BG	AR1660BG	01/03/03	1206	8.46	25.37
14	BBLK1E	MB-4935	01/03/03	1316	8.46	25.37
15	B1ELCS	LCS-4935	01/03/03	1352	8.46	25.37
16	B1ELCSD	LCSD-4935	01/03/03	1427	8.46	25.37
17	AOC5ASSTB695	A1905-19A	01/03/03	1502	8.46	25.37
18	AOC5ASSD7A56	A1905-20A	01/03/03	1538	8.46	25.37
19	AOC5ASSD7B56	A1905-21A	01/03/03	1613	8.46	25.37
20	AOC5ASSTB700	A1905-23C	01/03/03	1649	8.46	25.37
21	AOC5ASSTB680	A1905-25C	01/03/03	1724	8.46	25.37
22	AR1660BH	AR1660BH	01/03/03	2021	8.46	25.37
23	AR1660BJ	AR1660BJ	01/06/03	1132	8.46	25.37
24	BBLK1C	MB-4929	01/06/03	1243	8.46	25.37
25	AOC3SSTB5402	A1905-06C	01/06/03	1318	8.46	25.37
26	AR1660BK	AR1660BK	01/06/03	1615	8.46	25.37
27	AR1660BL	AR1660BL	01/13/03	1333	8.45	25.37
28	BBLK1A	MB-5070	01/13/03	1727	8.46	25.37
29	B1ALCS	LCS-5070	01/13/03	1802	8.46	25.37
30	B1ALCSD	LCSD-5070	01/13/03	1838	8.46	25.37
31	AOC5WTB62WRE	A1905-16BRE	01/13/03	2210	8.46	25.37
32	AOC7WTB65GWR	A1905-18BRE	01/13/03	2245	8.46	25.37

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
PCB ANALYTICAL SEQUENCE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

GC Column: RTXCLPPEST ID: 0.53 (mm) Init. Calib. Date(s): 12/21/02 12/21/02

Instrument ID: E1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 8.46 DCB: 25.37

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	AR1660BM	AR1660BM	01/14/03	0142	8.46	25.37
02	BBLK1B	MB-4924	01/14/03	0938		
03	AOC5WTB62W	A1905-16D	01/14/03	1013		
04	AOC7WTB65GW	A1905-18D	01/14/03	1048		
05	AR1660BN	AR1660BN	01/14/03	1159	8.46	25.37
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.05 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.10 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 10
PCB IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.: B1ALCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab Sample ID: LCS-5070 Date(s) Analyzed: 01/13/03 01/13/03

Instrument ID (1): E1 Instrument ID (2): E1

GC Column(1): RTXCLPPEST 2 ID: 0.53(mm) GC Column(2): RTXCLPPEST ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	12.02	11.95	12.09	2.2		
Aroclor-1016	2	10.48	10.41	10.55	2.1		
	3	10.85	10.78	10.92	2.2		
COLUMN 1	4						
	5					2.2	
	1	12.80	12.72	12.86	2.0		
	2	13.19	13.11	13.25	2.0		
	3	14.53	14.46	14.60	2.0		
COLUMN 2	4						
	5					2.0	9.5
	1	16.83	16.75	16.89	2.4		
Aroclor-1260	2	18.60	18.52	18.66	2.3		
	3	19.31	19.24	19.38	2.4		
COLUMN 1	4						
	5					2.4	
	1	18.58	18.51	18.65	2.1		
	2	19.52	19.45	19.59	2.2		
	3	21.22	21.15	21.29	2.2		
COLUMN 2	4						
	5					2.2	8.7
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes.

FORM 10
PCB IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.: B1ALCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab Sample ID: LCSD-5070 Date(s) Analyzed: 01/13/03 01/13/03

Instrument ID (1): E1 Instrument ID (2): E1

GC Column(1): RTXCLPPEST 2 ID: 0.53(mm) GC Column(2): RTXCLPPEST ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	12.02	11.95	12.09	2.3		
Aroclor-1016	2	10.48	10.41	10.55	2.3		
	3	10.85	10.78	10.92	2.3		
COLUMN 1	4						
	5					2.3	
	1	12.79	12.72	12.86	2.2		
	2	13.18	13.11	13.25	2.1		
	3	14.53	14.46	14.60	2.1		
COLUMN 2	4						
	5					2.1	9.1
	1	16.82	16.75	16.89	2.4		
Aroclor-1260	2	18.59	18.52	18.66	2.4		
	3	19.31	19.24	19.38	2.4		
COLUMN 1	4						
	5					2.4	
	1	18.58	18.51	18.65	2.2		
	2	19.52	19.45	19.59	2.2		
	3	21.22	21.15	21.29	2.2		
COLUMN 2	4						
	5					2.2	8.7
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes.

FORM 10
PCB IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.: B1BLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab Sample ID: LCS-4933 Date(s) Analyzed: 12/30/02 12/30/02

Instrument ID (1): E1 Instrument ID (2): E1

GC Column(1): RTXCLPPEST 2 ID: 0.53(mm) GC Column(2): RTXCLPPEST ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	12.02	11.95	12.09	9.2		
Aroclor-1016	2	10.48	10.41	10.55	8.9		
	3	10.85	10.78	10.92	9.0		
COLUMN 1	4						
	5					9.0	
	1	12.80	12.72	12.86	8.6		
	2	13.19	13.11	13.25	8.4		
	3	14.53	14.46	14.60	8.5		
COLUMN 2	4						
	5					8.5	5.7
	1	16.82	16.75	16.89	8.9		
Aroclor-1260	2	*18.59*	*18.52*	*18.66*	*8.5*		
	3	19.31	19.24	19.38	8.6		
COLUMN 1	4						
	5					8.7	
	1	18.59	18.51	18.65	8.1		
	2	19.52	19.45	19.59	8.2		
	3	21.22	21.15	21.29	7.8		
COLUMN 2	4						
	5					8.0	8.4
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes.

FORM 10
PCB IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.: B1BLCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab Sample ID: LCSD-4933 Date(s) Analyzed: 12/30/02 12/30/02

Instrument ID (1): E1 Instrument ID (2): E1

GC Column(1): RTXCLPPEST 2 ID: 0.53(mm) GC Column(2): RTXCLPPEST ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	12.02	11.95	12.09	8.8		
Aroclor-1016	2	10.48	10.41	10.55	8.4		
	3	10.85	10.78	10.92	8.6		
COLUMN 1	4						
	5					8.6	
	1	12.80	12.72	12.86	8.1		
	2	13.18	13.11	13.25	7.9		
	3	14.53	14.46	14.60	8.1		
COLUMN 2	4						
	5					8.0	7.2
	1	16.82	16.75	16.89	8.2		
Aroclor-1260	2	18.59	18.52	18.66	7.8		
	3	19.31	19.24	19.38	8.0		
COLUMN 1	4						
	5					8.0	
	1	18.58	18.51	18.65	7.5		
	2	19.52	19.45	19.59	7.6		
	3	21.22	21.15	21.29	7.2		
COLUMN 2	4						
	5					7.4	7.8
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes.

FORM 10
PCB IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.: B1CLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab Sample ID: LCS-4930 *Date(s) Analyzed: 12/30/02 12/30/02*

Instrument ID (1): E1 Instrument ID (2): E1

GC Column(1): RTXCLPPEST 2 ID: 0.53(mm) GC Column(2): RTXCLPPEST ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1016	1	12.02	11.95	12.09	250		
	2	10.48	10.41	10.55	250		
	3	10.85	10.78	10.92	250		
COLUMN 1	4						
	5					250	
	1	12.79	12.72	12.86	230		
	2	13.18	13.11	13.25	230		
	3	14.53	14.46	14.60	230		
COLUMN 2	4						
	5					230	8.3
Aroclor-1260	1	16.82	16.75	16.89	260		
	2	18.59	18.52	18.66	250		
	3	19.31	19.24	19.38	260		
COLUMN 1	4						
	5					260	
	1	18.58	18.51	18.65	230		
	2	19.52	19.45	19.59	230		
	3	21.22	21.15	21.29	230		
COLUMN 2	4						
	5					230	12.2
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes.

FORM 10
PCB IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.: B1CLCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab Sample ID: *LCSD-4930* Date(s) Analyzed: *12/30/02 12/30/02*

Instrument ID (1): E1 Instrument ID (2): E1

GC Column(1): RTXCLPPEST 2 ID: 0.53(mm) GC Column(2): RTXCLPPEST ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1016	1	12.02	11.95	12.09	300		
	2	10.48	10.41	10.55	300		
	3	10.85	10.78	10.92	300		
COLUMN 1	4						
	5					300	
	1	12.79	12.72	12.86	280		
	2	13.18	13.11	13.25	270		
	3	14.53	14.46	14.60	270		
COLUMN 2	4						
	5					270	10.5
Aroclor-1260	1	16.82	16.75	16.89	300		
	2	18.59	18.52	18.66	300		
	3	19.31	19.24	19.38	310		
COLUMN 1	4						
	5					300	
	1	18.58	18.51	18.65	280		
	2	19.52	19.45	19.59	280		
	3	21.22	21.15	21.29	280		
COLUMN 2	4						
	5					280	6.9
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes.

FORM 10
PCB IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.: B1DLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab Sample ID: LCS-4911 Date(s) Analyzed: 12/31/02 12/31/02

Instrument ID (1): E1 Instrument ID (2): E1

GC Column(1): RTXCLPPEST 2 ID: 0.53(mm) GC Column(2): RTXCLPPEST ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1016	1	12.02	11.95	12.09	10		
	2	10.48	10.41	10.55	9.8		
	3	10.85	10.78	10.92	9.9		
COLUMN 1	4						
	5					10	
	1	12.80	12.72	12.86	9.4		
	2	13.19	13.11	13.25	9.2		
	3	14.53	14.46	14.60	9.4		
COLUMN 2	4						
	5					9.4	6.2
Aroclor-1260	1	16.82	16.75	16.89	10		
	2	18.60	18.52	18.66	10		
	3	19.31	19.24	19.38	11		
COLUMN 1	4						
	5					10	
	1	18.58	18.51	18.65	9.6		
	2	19.52	19.45	19.59	9.8		
	3	21.22	21.15	21.29	9.8		
COLUMN 2	4						
	5					9.7	3.0
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes.

FORM 10
PCB IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.: B1DLCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab Sample ID: LCSD-4911 Date(s) Analyzed: 12/31/02 12/31/02

Instrument ID (1): E1 Instrument ID (2): E1

GC Column(1): RTXCLPPEST 2 ID: 0.53(mm) GC Column(2): RTXCLPPEST ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1016	1	12.02	11.95	12.09	10		
	2	10.48	10.41	10.55	9.9		
	3	10.85	10.78	10.92	10		
COLUMN 1	4						
	5					10	
	1	12.80	12.72	12.86	9.6		
	2	13.19	13.11	13.25	9.3		
	3	14.53	14.46	14.60	9.4		
COLUMN 2	4						
	5					9.4	6.2
Aroclor-1260	1	16.82	16.75	16.89	10		
	2	18.60	18.52	18.66	10		
	3	19.31	19.24	19.38	11		
COLUMN 1	4						
	5					10	
	1	18.58	18.51	18.65	9.6		
	2	19.52	19.45	19.59	9.8		
	3	21.22	21.15	21.29	9.9		
COLUMN 2	4						
	5					9.8	2.0
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes.

FORM 10
PCB IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

B1ELCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab Sample ID: LCS-4935 Date(s) Analyzed: 01/03/03 01/03/03

Instrument ID (1): E1 Instrument ID (2): E1

GC Column(1): RTXCLPPEST 2 ID: 0.53(mm) GC Column(2): RTXCLPPEST ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1016	1	12.03	11.95	12.09	33		
	2	10.48	10.41	10.55	31		
	3	10.86	10.78	10.92	32		
COLUMN 1	4						
	5					32	
	1	12.80	12.72	12.86	32		
	2	13.19	13.11	13.25	31		
	3	14.54	14.46	14.60	32		
COLUMN 2	4						
	5					31	3.2
	1	16.83	16.75	16.89	33		
Aroclor-1260	2	18.60	18.52	18.66	33		
	3	19.31	19.24	19.38	34		
COLUMN 1	4						
	5					34	
	1	18.59	18.51	18.65	32		
	2	19.52	19.45	19.59	32		
	3	21.22	21.15	21.29	33		
COLUMN 2	4						
	5					32	6.1
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes.

PCB

FORM 10
PCB IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE NO.

B1ELCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Lab Sample ID: LCSD-4935 Date(s) Analyzed: 01/03/03 01/03/03

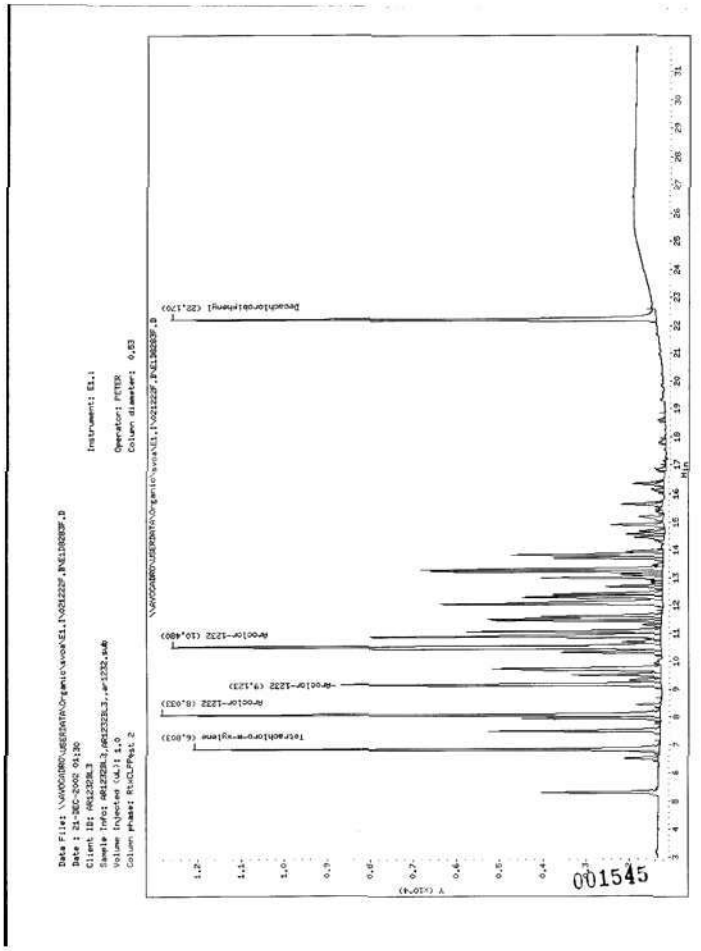
Instrument ID (1): E1 Instrument ID (2): E1

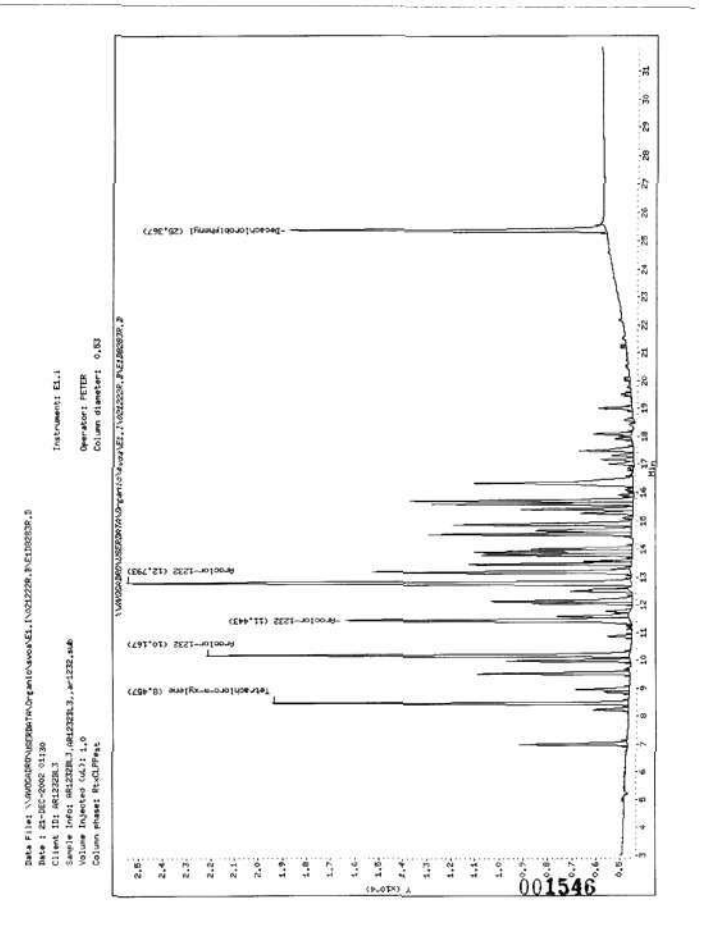
GC Column(1): RTXCLPPEST 2 ID: 0.53(mm) GC Column(2): RTXCLPPEST ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
Aroclor-1016	1	12.03	11.95	12.09	31		
	2	10.48	10.41	10.55	30		
	3	10.86	10.78	10.92	30		
COLUMN 1	4						
	5					30	
	1	12.80	12.72	12.86	30		
	2	13.19	13.11	13.25	29		
	3	14.54	14.46	14.60	30		
COLUMN 2	4						
	5					30	0.0
	1	16.83	16.75	16.89	31		
Aroclor-1260	2	18.60	18.52	18.66	31		
	3	19.31	19.24	19.38	32		
COLUMN 1	4						
	5					32	
	1	18.59	18.51	18.65	30		
	2	19.52	19.45	19.59	31		
	3	21.22	21.15	21.29	31		
COLUMN 2	4						
	5					30	6.4
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes.

PCB





Data File: E1D8283F.D
Report Date: 23-Dec-2002 11:04

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1D8283F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1D8283R.D
Inj Date : 21-DEC-2002 01:30
Sample Info: AR1232BL3,AR1232BL3,,ar1232.sub
Misc Info : 1,3,,1
Cal Date : 23-DEC-2002 10:53
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1_PCB_R.m
Sub List #1 : ar1232.sub
Sub List #2 : ar1232.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

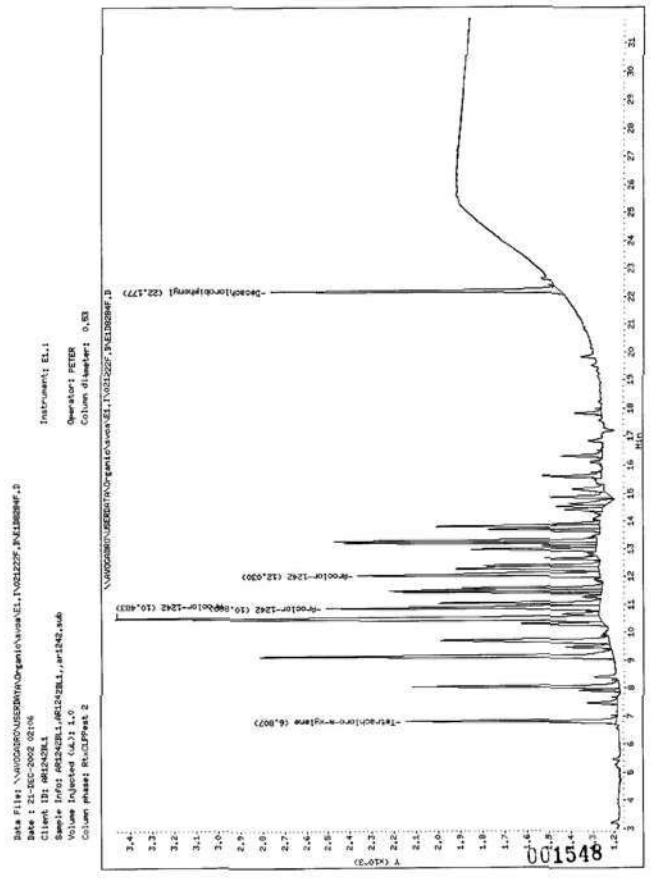
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.803	8.457	10824	14747	0.022	0.020		100.00(a)
Aroclor-1232	8.033	10.167	11590	17557	1.0	1.0	80.00- 120.00	100.00
	9.123	11.443	7447	11773	1.0	1.0	44.25- 84.25	64.25
	10.485	12.793	11362	20936	1.0	1.0	78.03- 118.03	98.03
			Average of Peak Amounts =		1.0	1.0		
Decachlorobiphenyl	22.170	25.347	11253	13053	0.019	0.018		100.00(a)

QC Flag Legend

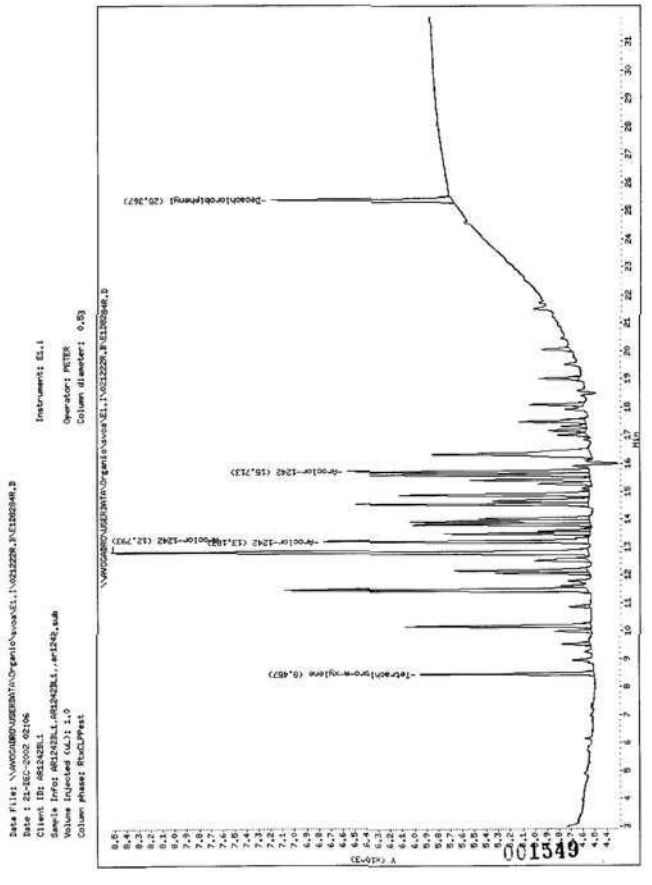
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

sz 1/3/03

001547



001548



001549

Data File: E1D8284F.D
Report Date: 23-Dec-2002 11:04

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1D8284F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1D8284R.D
Inj Date : 21-DEC-2002 02:06
Sample Info: AR1242BL1,AR1242BL1,,ar1242.sub
Misc Info : 1,1,,1
Cal Date : 23-DEC-2002 10:53
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1_PCB_R.m
Sub List #1 : ar1242.sub
Sub List #2 : ar1242.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

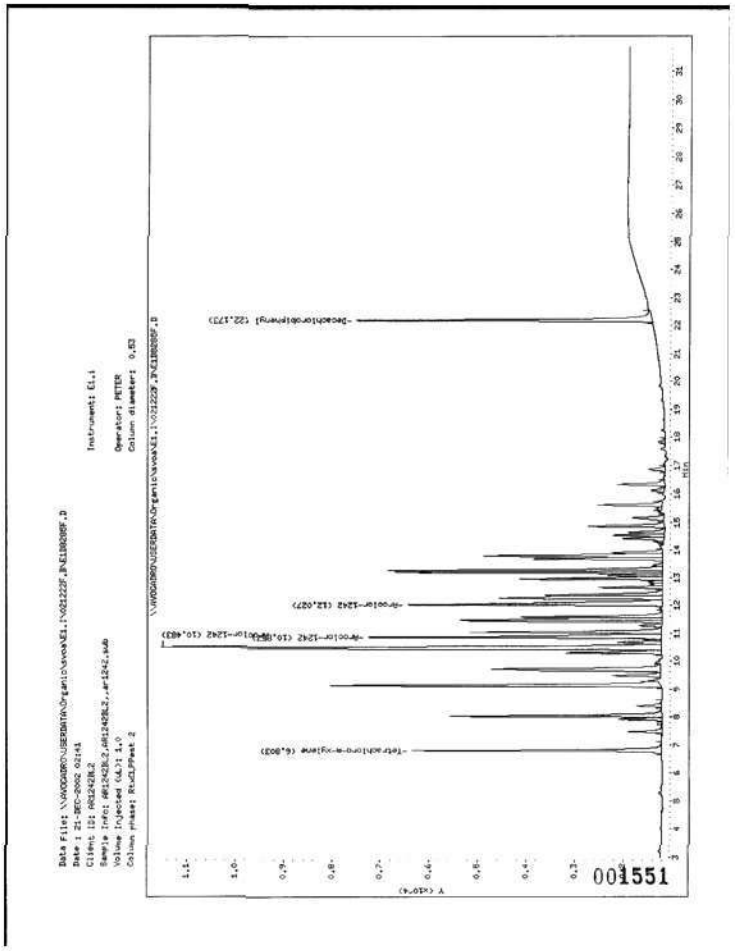
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.807	8.457	952	1444	0.0019	0.0019		100.00(a)
Aroclor-1242	10.483	12.793	2206	3979	0.12	0.11	80.00- 120.00	100.00(a)
	10.860	13.183	1243	2204	0.11	0.12	39.40- 79.40	56.40(a)
	12.030	15.713	1098	2011	0.11	0.11	31.47- 71.47	49.82(a)
			Average of Peak Amounts =		0.11	0.11		
Decachlorobiphenyl	22.177	25.367	1318	1515	0.0023	0.0021		100.00(a)

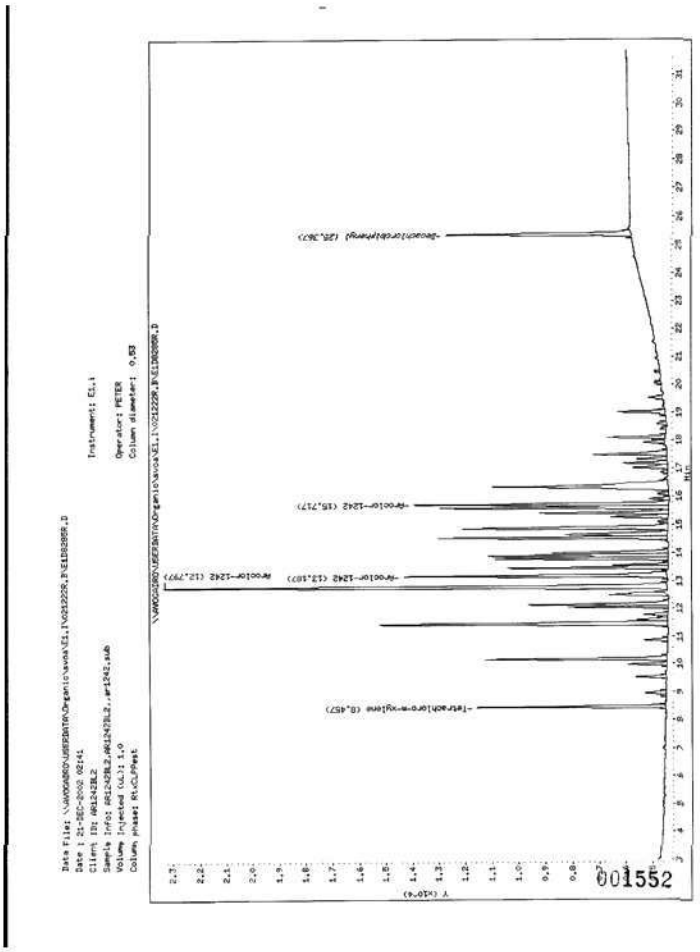
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

sz 1/3/03

001550





Data File: E1D8285F.D
Report Date: 23-Dec-2002 11:04

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1D8285F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1D8285R.D
Inj Date : 21-DEC-2002 02:41
Sample Info: AR1242BL2,AR1242BL2,,ar1242.sub
Misc Info : 1,2,,1
Cal Date : 23-DEC-2002 10:54
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1_PCB_R.m
Sub List #1 : ar1242.sub
Sub List #2 : ar1242.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

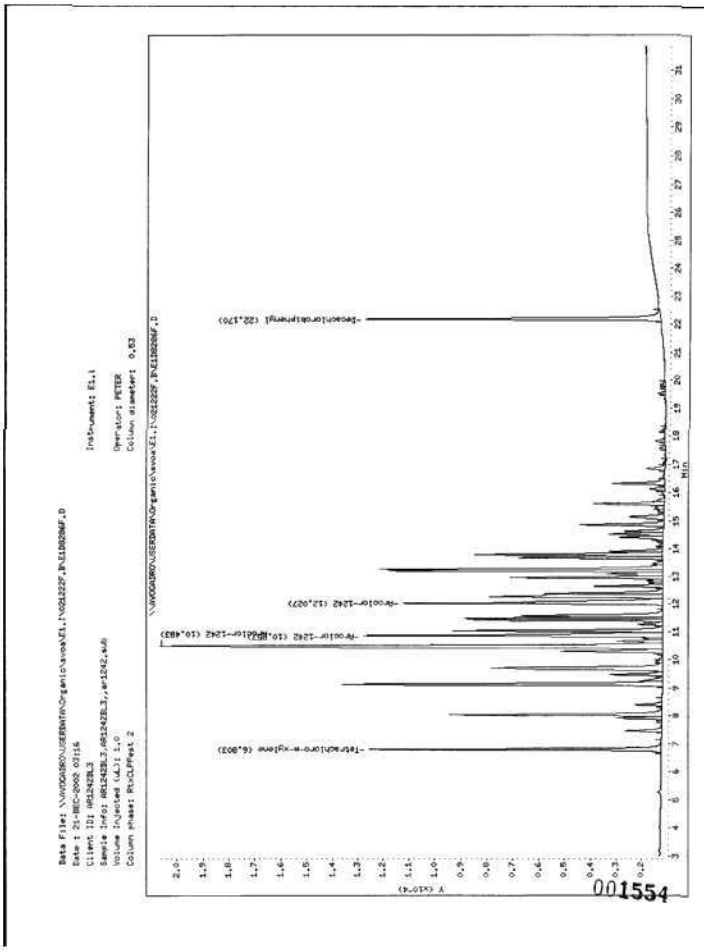
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.803	8.452	5129	7078	0.010	0.0095		100.00(a)
Aroclor-1242	10.483	12.797	10302	18896	0.54	0.52	80.00- 120.00	100.00(a)
	10.857	13.187	6046	9872	0.53	0.53	39.40- 79.40	58.69(a)
	12.027	15.717	5223	9596	0.54	0.52	31.47- 71.47	50.70(a)
		Average of Peak Amounts =			0.54	0.52		
Decachlorobiphenyl	22.173	25.362	4099	4930	0.010	0.0097		100.00(a)

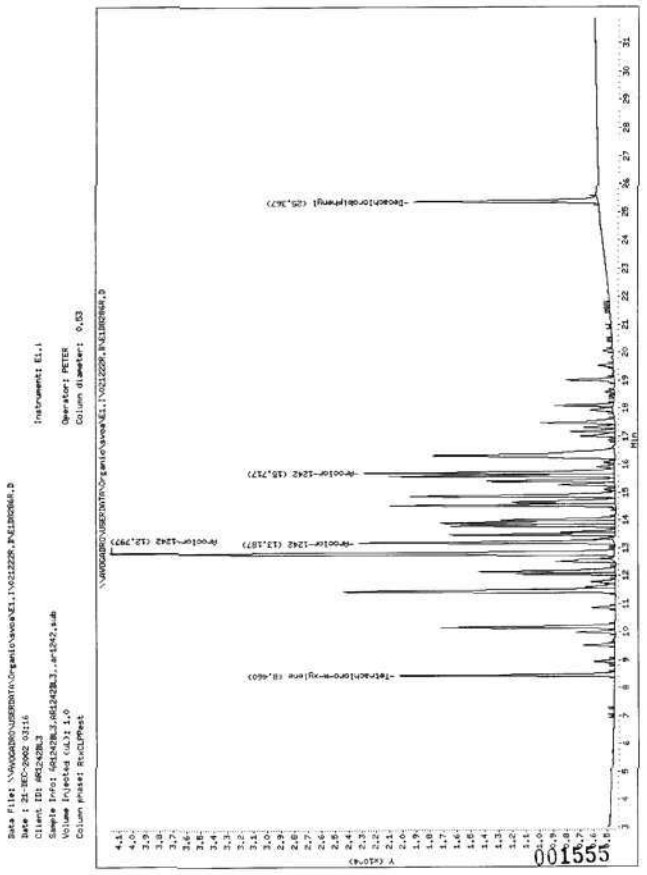
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

SZ 12/23/02

001553





Data File: E1D8286F.D
Report Date: 23-Dec-2002 11:04

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1D8286F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1D8286R.D
Inj Date : 21-DEC-2002 03:16
Sample Info: AR1242BL3,AR1242BL3,,ar1242.sub
Misc Info : 1,3,,1
Cal Date : 23-DEC-2002 10:54
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1_PCB_R.m
Sub List #1 : ar1242.sub
Sub List #2 : ar1242.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

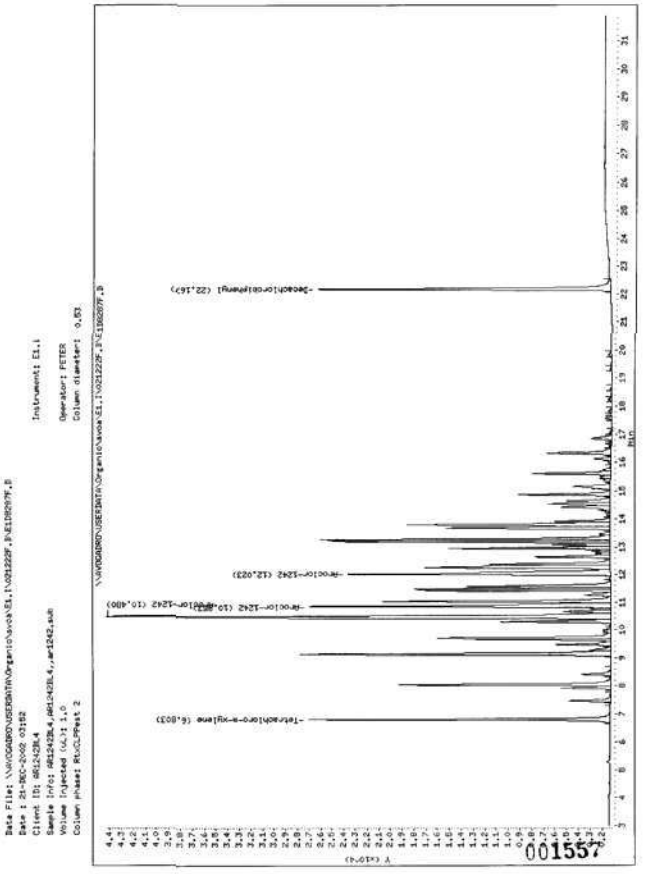
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.803	8.460	11330	15810	0.022	0.021		100.00(a)
Aroclor-1242	10.493	12.797	19459	37172	1.0	1.0	80.00- 120.00	100.00
	10.857	13.187	11558	18792	1.0	1.0	39.40- 79.40	59.40
	13.027	15.717	10015	18476	1.0	1.0	31.47- 71.47	51.47
			Average of Peak Amounts =		1.0	1.0		
Decachlorobiphenyl	22.170	25.367	11424	13543	0.020	0.019		100.00(a)

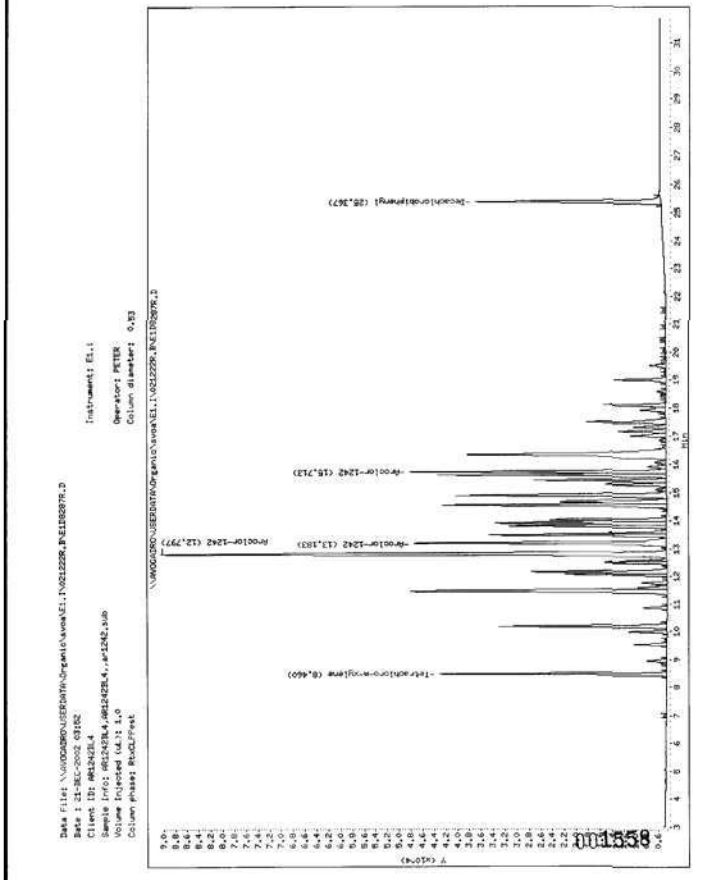
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

SZ 12/23/02

001556





Data File: E1D8287F.D
Report Date: 23-Dec-2002 11:04

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1D8287F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1D8287R.D
Inj Date : 21-DEC-2002 03:52
Sample Info: AR1242BL4,AR1242BL4,,ar1242.sub
Misc Info : 1,4,,1
Cal Date : 23-DEC-2002 10:54
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1_PCB_R.m
Sub List #1 : ar1242.sub
Sub List #2 : ar1242.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

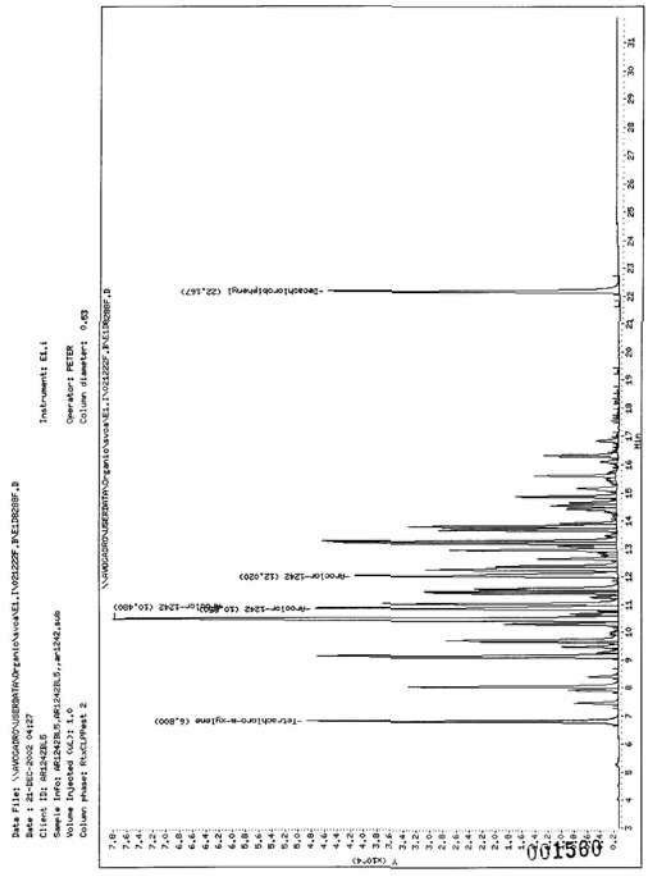
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.803	8.460	25756	38489	0.051	0.052		100.00(a)
Aroclor-1242	10.480	12.797	43051	85952	2.3	2.4	80.00- 120.00	100.00
	10.853	13.189	25751	42816	2.3	2.3	39.40- 79.40	59.82
	12.023	15.713	22405	43607	2.3	2.4	31.47- 71.47	52.04
			Average of Peak Amounts =		2.3	2.4		
Decachlorobiphenyl	22.167	25.367	24995	31462	0.043	0.044		100.00(a)

QC Flag Legend

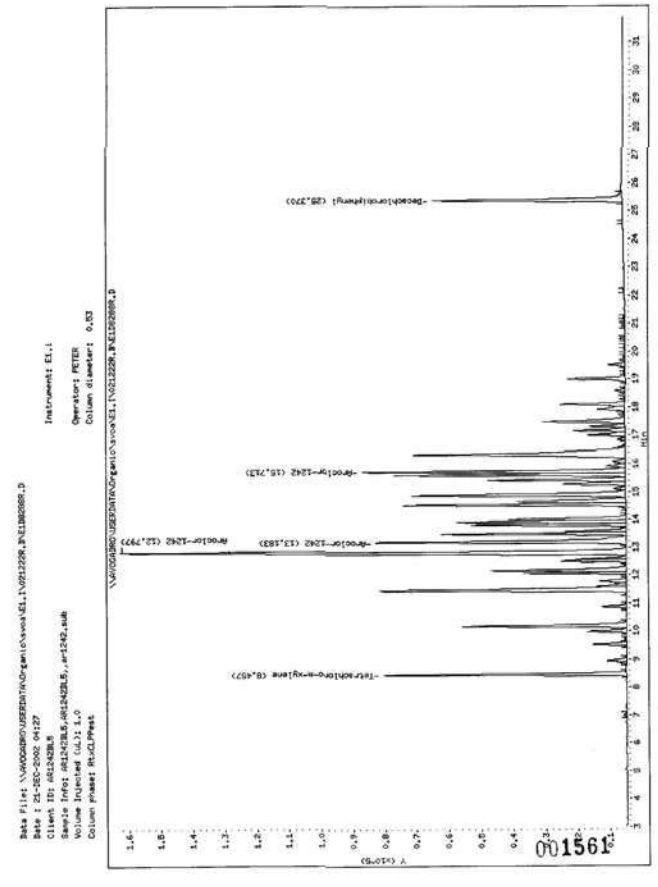
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

SZ 12/23/02

001559



001560



001561

Data File: E1D8288F.D
Report Date: 23-Dec-2002 11:04

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1D8288F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1D8288R.D
Inj Date : 21-DEC-2002 04:27
Sample Info: AR1242BL5,AR1242BL5,,ar1242.sub
Misc Info : 1,5,,1
Cal Date : 23-DEC-2002 10:54
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1_PCB_R.m
Sub List #1 : ar1242.sub
Sub List #2 : ar1242.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

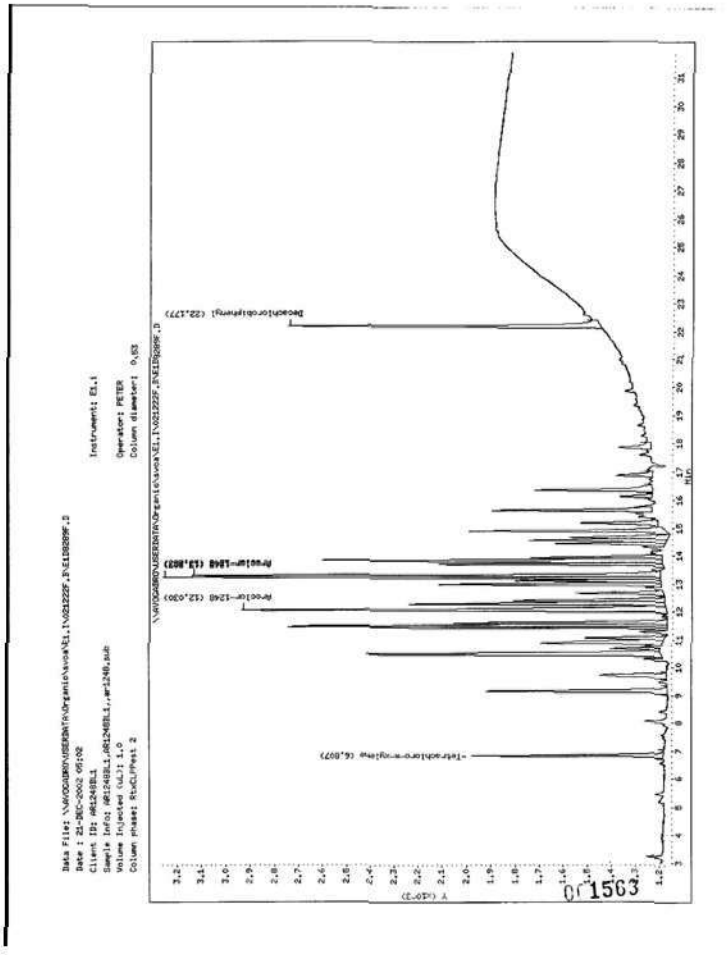
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.805	8.457	47319	75817	0.094	0.10		100.00(a)
Aroclor-1242	10.480	12.797	76664	157959	4.0	4.4	80.00- 120.00	100.00
	10.850	13.183	46008	78216	4.1	4.2	39.40- 79.40	60.01
	12.020	15.713	39919	82204	4.1	4.5	31.47- 71.47	52.07
			Average of Peak Amounts =		4.1	4.4		
Decachlorobiphenyl	22.167	25.370	44303	58938	0.076	0.083		100.00

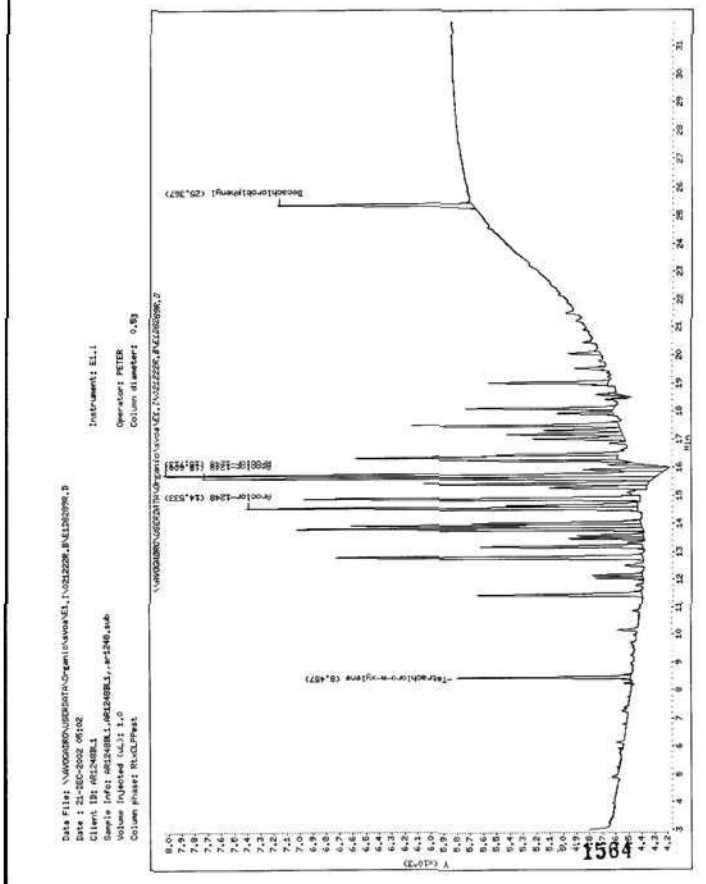
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

SZ 12/23/02

001562





Data File: E1D8289F.D
Report Date: 23-Dec-2002 11:04

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1D8289F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1D8289R.D
Inj Date : 21-DEC-2002 05:02
Sample Info: AR1248BL1,AR1248BL1,,ar1248.sub
Misc Info : 1,1,,1
Cal Date : 23-DEC-2002 10:54
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1_PCB_R.m
Sub List #1 : ar1248.sub
Sub List #2 : ar1248.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction Factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

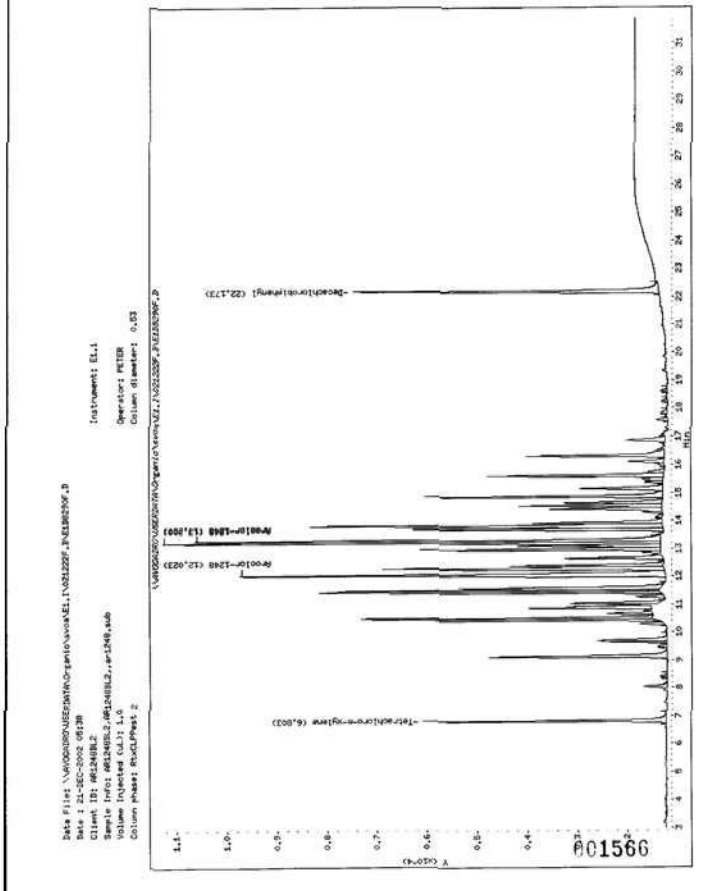
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.807	8.457	795	1309	0.0016	0.0016		100.00(a)
Aroclor-1248	12.030	14.533	1761	2975	0.12	0.11	80.00- 120.00	100.00(a)
	13.207	15.600	2062	3431	0.12	0.12	97.40- 137.40	117.09(a)
	13.263	15.713	1943	3761	0.11	0.12	91.11- 131.11	110.34(a)
		Average of Peak Amounts =			0.12	0.12		
Decachlorobiphenyl	22.177	25.367	1296	1494	0.0022	0.0021		100.00(a)

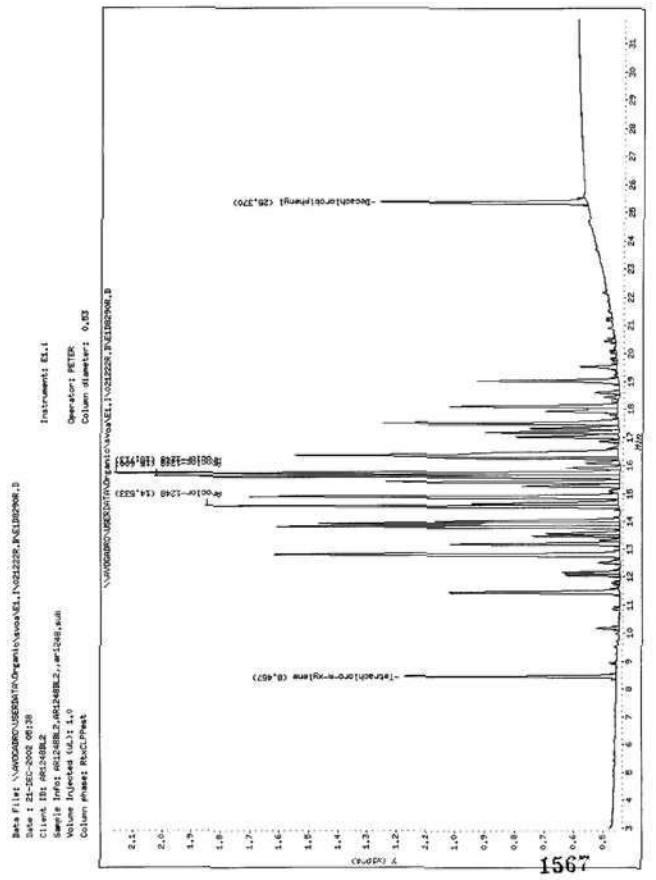
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

12/23/02

1565





1567

Data File: E1D8290F.D
Report Date: 23-Dec-2002 11:04

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1D8290F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1D8290R.D
Inj Date : 21-DEC-2002 05:38
Sample Info: AR1248BL2,AR1248BL2,,ar1248.sub
Misc Info : 1,2,,1
Cal Date : 23-DEC-2002 10:54
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1_PCB_R.m
Sub List #1 : ar1248.sub
Sub List #2 : ar1248.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

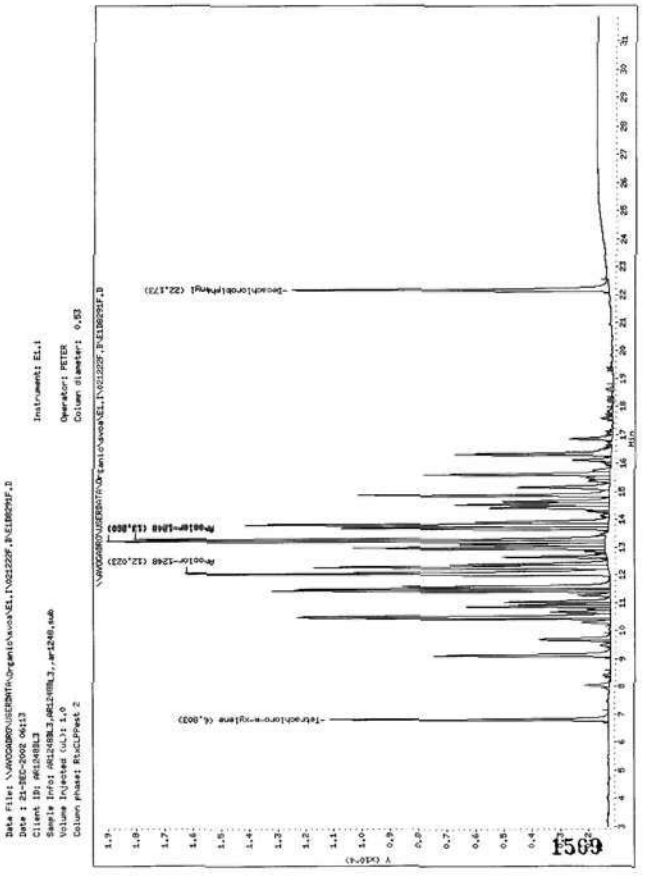
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-Xylene	6.803	8.457	4843	7176	0.0096	0.0097		100.00(a)
Aroclor-1248	13.023	14.533	8501	14042	0.56	0.54	60.00- 120.00	100.00(a)
	13.200	15.600	9930	15816	0.55	0.53	97.40- 137.40	116.81(a)
	13.260	15.713	9286	17171	0.55	0.52	91.11- 131.11	109.23(a)
			Average of Peak Amounts =		0.55	0.53		
Decachlorobiphenyl	22.173	28.370	6106	7016	0.010	0.0099		100.00(a)

QC Flag Legend

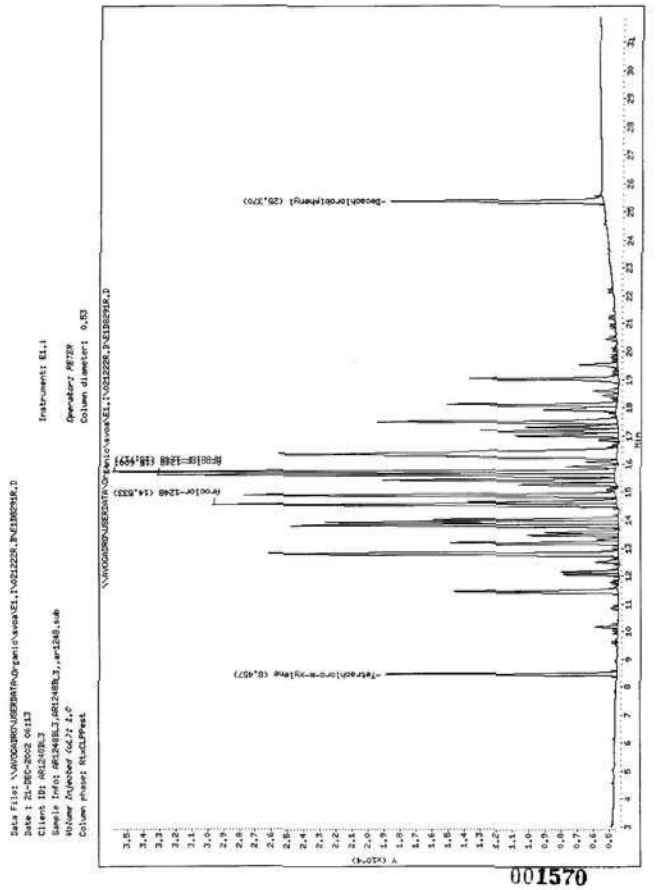
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

SZ 12/23/02

1568



1569



001570

Data File: E1D8291F.D
Report Date: 23-Dec-2002 11:04

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1D8291F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1D8291R.D
Inj Date : 21-DEC-2002 06:13
Sample Info: AR1248BL3,AR1248BL3,,ar1248.sub
Misc Info : 1,3,,1
Cal Date : 23-DEC-2002 10:54
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1_PCB_R.m
Sub List #1 : ar1248.sub
Sub List #2 : ar1248.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

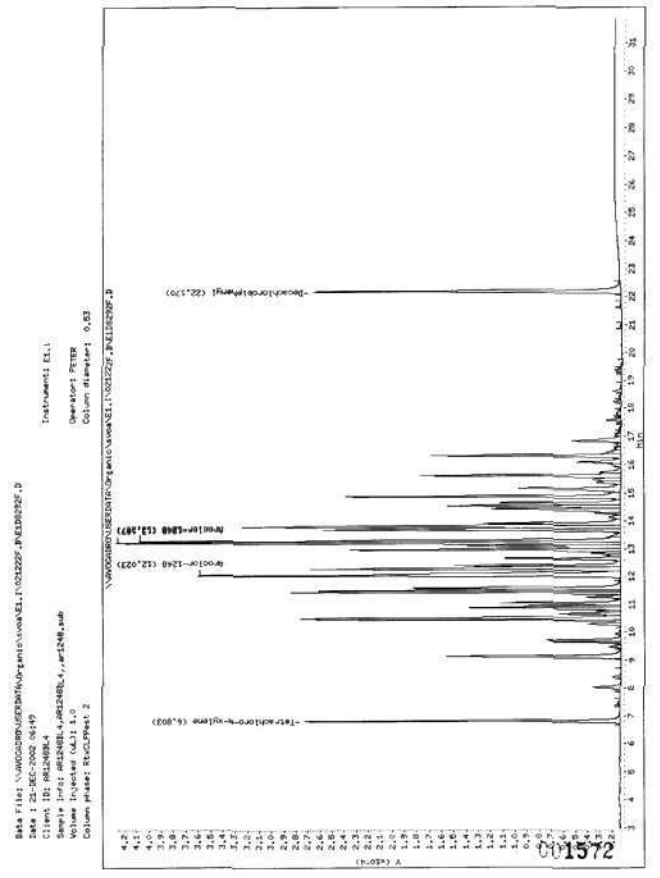
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.803	8.457	9848	14341	0.020	0.019		100.00(a)
Aroclor-1248	12.033	14.533	15027	25258	0.99	0.97	80.00- 120.00	100.00(a)
	13.200	15.600	17641	28677	0.98	0.96	97.40- 137.40	117.40(a)
	13.240	15.717	16697	31143	0.98	0.96	91.11- 131.11	111.11(a)
			Average of Peak Amounts =		0.98	0.96		
Decachlorobiphenyl	22.173	25.370	11253	13248	0.019	0.019		100.00(a)

QC Flag Legend

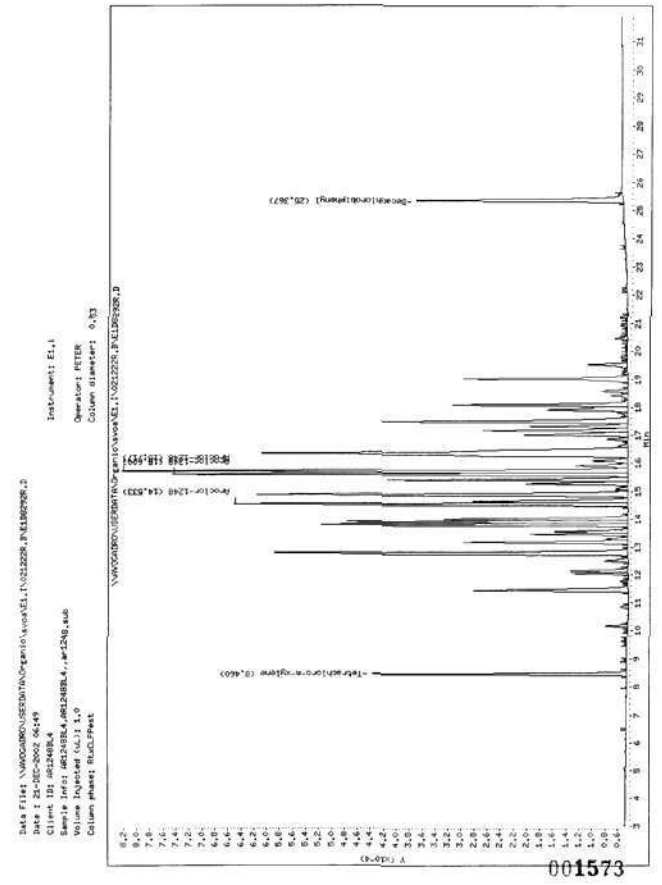
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

sz 12/23/02

001571



001572



001573

Data File: E1D8292F.D
Report Date: 23-Dec-2002 11:04

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1D8292F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1D8292R.D
Inj Date : 21-DEC-2002 06:49
Sample Info: AR1248BL4,AR1248BL4,,ar1248.sub
Misc Info : 1,4,,1
Cal Date : 23-DEC-2002 10:54
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1_PCB_R.m
Sub List #1 : ar1248.sub
Sub List #2 : ar1248.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

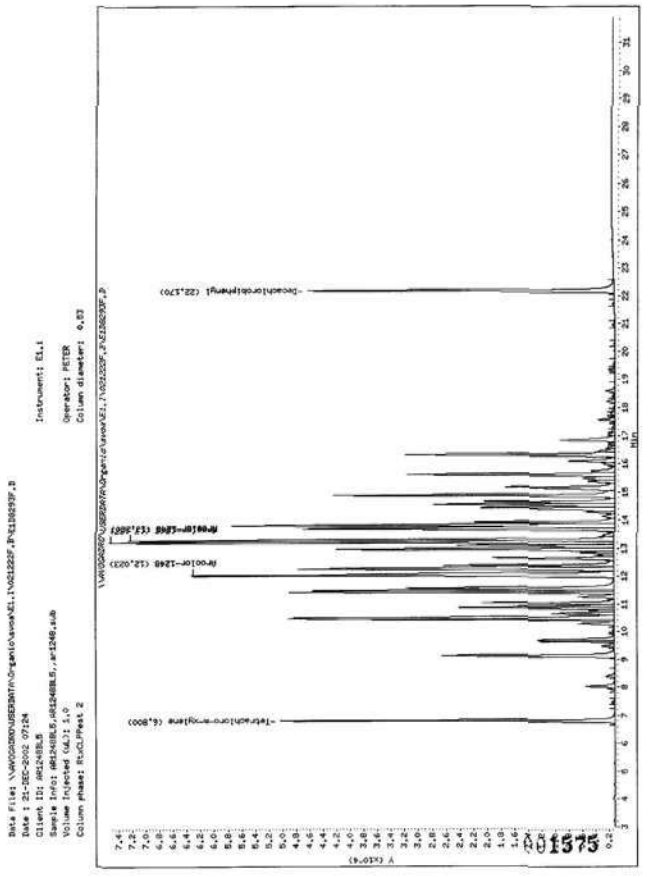
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.803	8.460	25955	39081	0.052	0.053		100.00
Aroclor-1248	12.033	14.533	34746	60735	2.3	2.3	80.00- 120.00	100.00
	13.197	15.600	41438	70031	2.3	2.4	97.40- 137.40	119.26
	13.257	15.717	39450	77893	2.3	2.4	91.11- 131.11	124.11
			Average of Peak Amounts =		2.3	2.4		
Decachlorobiphenyl	22.170	25.367	15248	31847	0.043	0.045		100.00(a)

QC Flag Legend

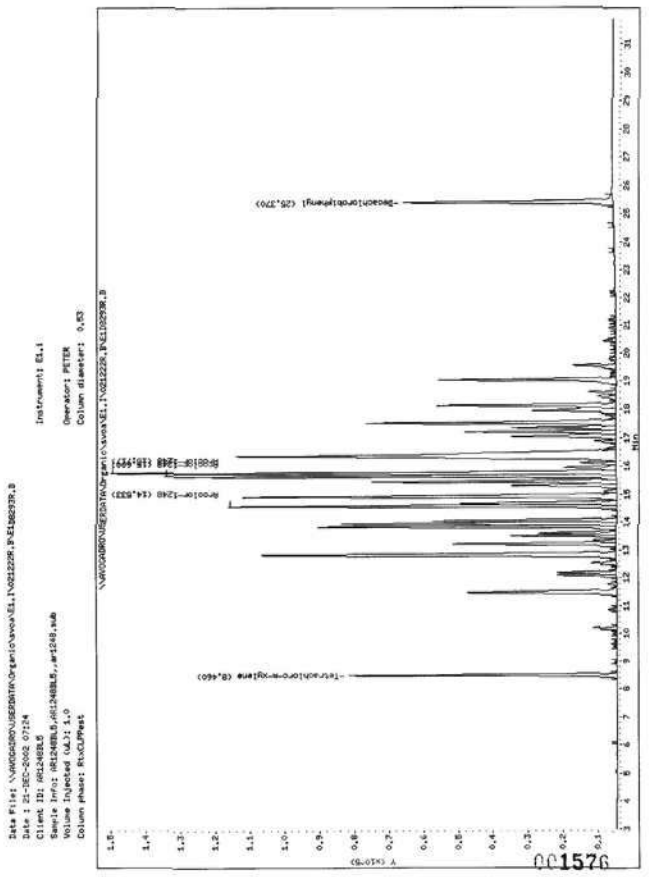
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

sz 12/23/02

001574



001575



001576

Data File: E1b8293F.D
Report Date: 23-Dec-2002 11:04

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1b8293F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1b8293R.D
Inj Date : 21-DEC-2002 07:24
Sample Info: AR1248BL5,AR1248BL5,,ar1248.sub
Misc Info : 1,5,,1
Cal Date : 23-DEC-2002 10:54
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1_PCB_R.m
Sub List #1 : ar1248.sub
Sub List #2 : ar1248.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

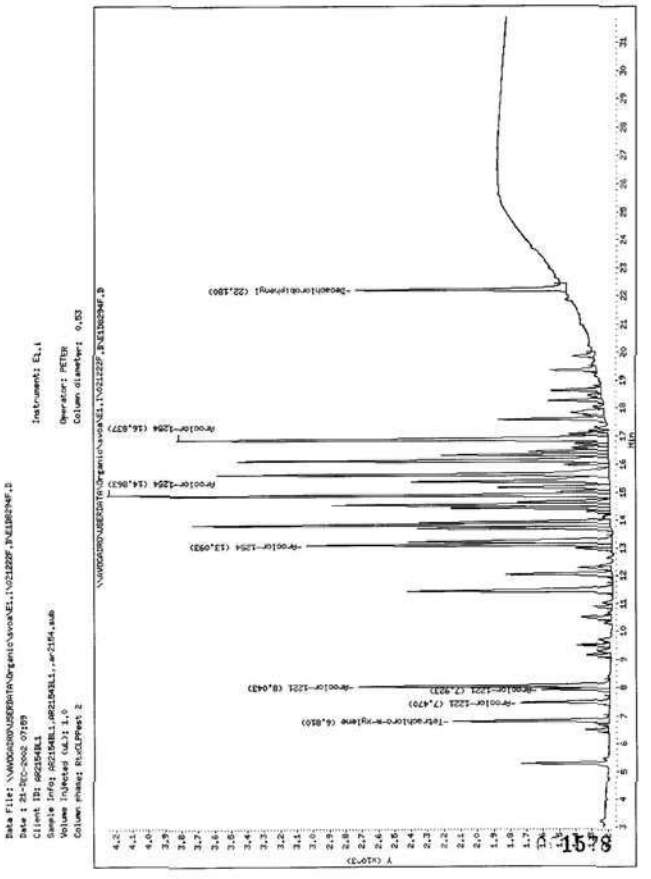
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

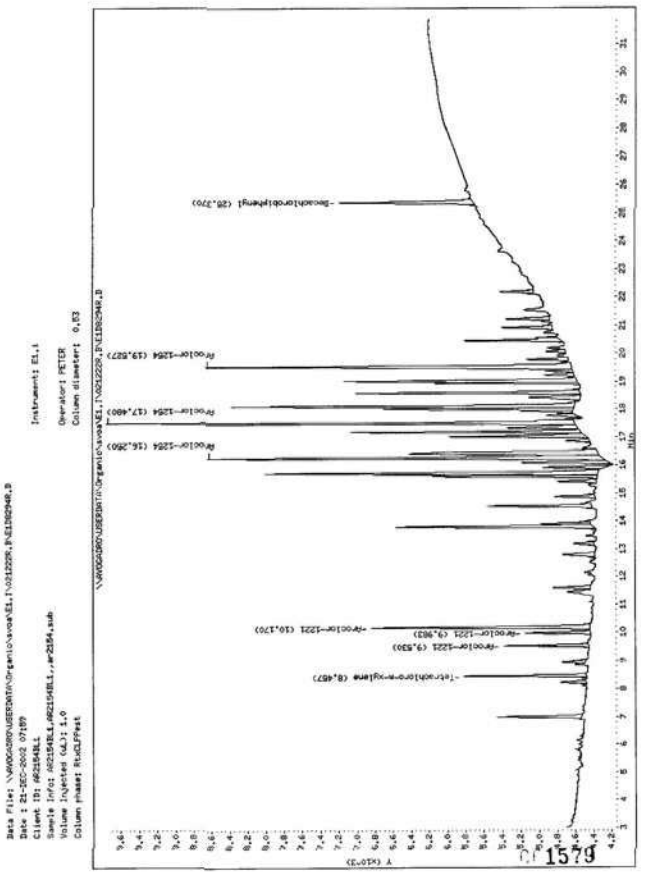
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.800	8.460	49095	76842	0.038	0.10		100.0%
Aroclor-1248	12.023	14.533	41995	111521	4.1	4.3	80.00- 120.00	100.0%
	13.197	15.600	74042	129768	4.1	4.4	97.40- 137.40	119.4%
	13.160	15.717	71142	145267	4.2	4.4	91.11- 131.11	114.7%
			Average of Peak Amounts =		4.1	4.4		
Decachlorobiphenyl	22.170	25.370	45110	60188	0.078	0.085		100.0%

SZ 12/23/02

001577



1578



001579

Data File: E1D8294F.D
Report Date: 23-Dec-2002 11:04

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1D8294F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1D8294R.D
Inj Date : 21-DEC-2002 07:59
Sample Info: AR2154BL1,AR2154BL1,,ar2154.sub
Misc Info : 1,1,,1
Cal Date : 23-DEC-2002 10:54
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1_PCB_R.m
Sub List #1 : ar2154.sub
Sub List #2 : ar2154.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-Xylene	6.810	8.457	981	1334	0.0019	0.0018		100.00(a)
Aroclor-1221	7.470	9.530	546	932	0.11	0.11	80.00- 120.00	100.00(a)
	7.923	9.983	420	713	0.11	0.12	52.58- 92.58	76.92(a)
	8.045	10.170	1537	2400	0.12	0.13	217.94- 257.94	281.50(a)
			Average of Peak Amounts =		0.11	0.12		
Aroclor-1254	13.093	16.250	1868	4347	0.13	0.13	80.00- 120.00	100.00(a)
	14.863	17.480	1068	5142	0.12	0.11	157.42- 197.42	164.24(a)
	16.837	19.527	2633	4020	0.13	0.11	133.56- 173.56	140.95(a)
			Average of Peak Amounts =		0.12	0.12		
Decachlorobiphenyl	22.180	25.370	1286	1485	0.0032	0.0021		100.00(a)

SZ 12/23/02

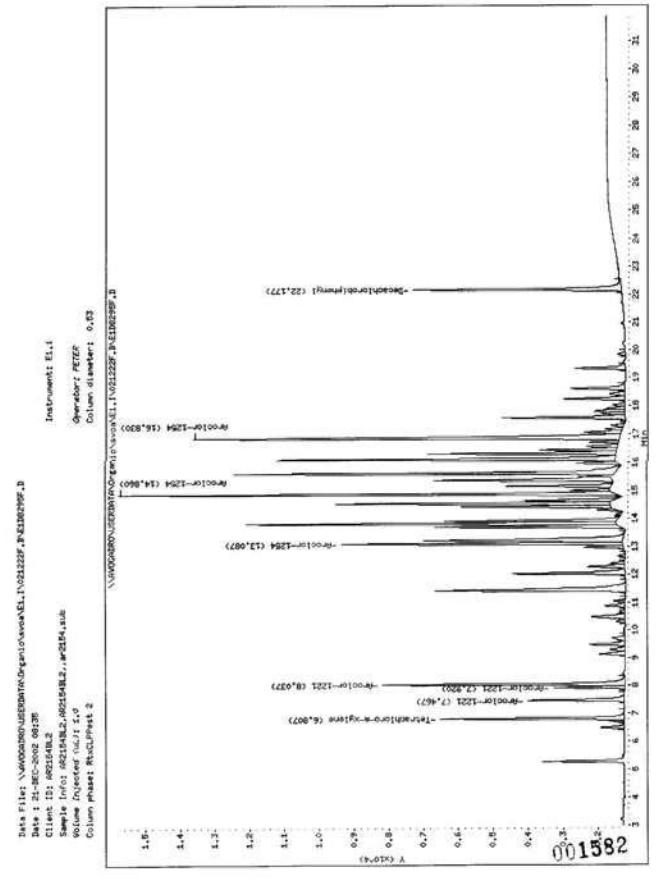
001580

Data File: E1D8294F.D
Report Date: 23-Dec-2002 11:04

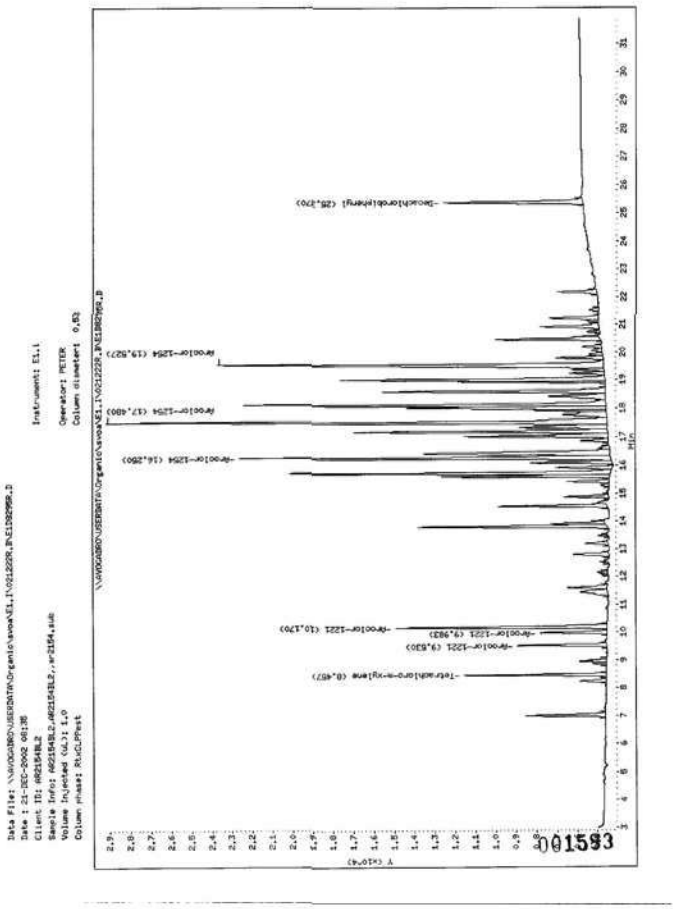
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

001581



001582



001583

Data File: E1D8295F.D
Report Date: 23-Dec-2002 11:04

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1D8295F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1D8295R.D
Inj Date : 21-DEC-2002 08:35
Sample Info: AR2154BL2,AR2154BL2,,ar2154.sub
Misc Info : 1,2,,1
Cal Date : 23-DEC-2002 10:54
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1_PCB_R.m
Sub List #1 : ar2154.sub
Sub List #2 : ar2154.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.807	6.457	9255	6978	0.010	0.0094		100.00(a)
Aroclor-1221	7.487	9.530	2752	4398	0.54	0.53	80.00- 120.00	100.00(a)
	7.920	9.983	2036	3274	0.54	0.54	62.58- 93.58	73.98(a)
	8.037	10.170	6930	10359	0.56	0.54	217.94- 257.94	251.82(a)
		Average of Peak Amounts =			0.55	0.54		
Aroclor-1254	13.087	16.250	8043	18315	0.55	0.54	80.00- 120.00	100.00(a)
	14.860	17.480	14251	24646	0.55	0.54	157.42- 197.42	177.19(a)
	16.830	19.527	12219	19065	0.55	0.52	133.56- 173.56	151.92(a)
		Average of Peak Amounts =			0.55	0.53		
Decachlorobiphenyl	22.177	25.370	5972	6858	0.010	0.0096		100.00(a)

52 18/03/02

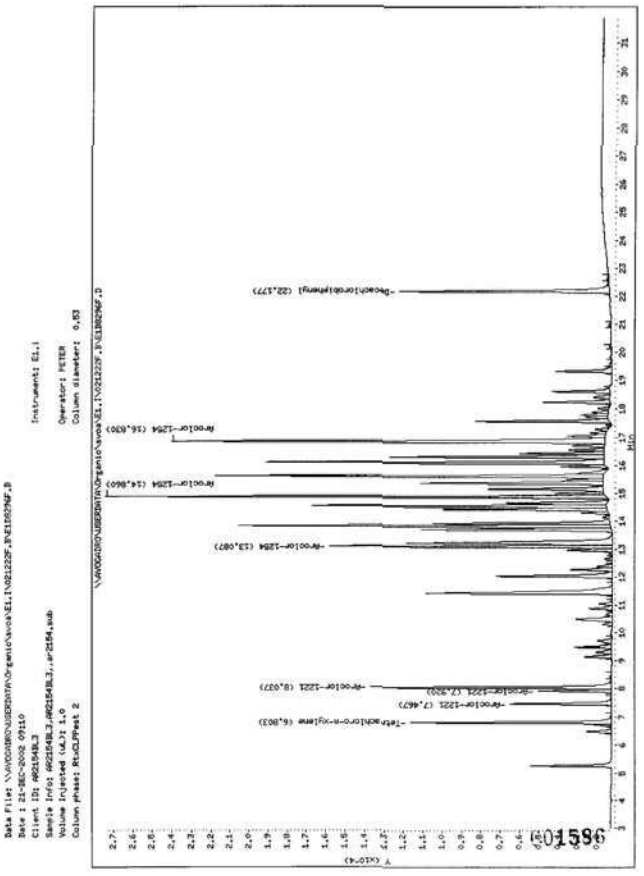
001584

Data File: E1D8295F.D
Report Date: 23-Dec-2002 11:04

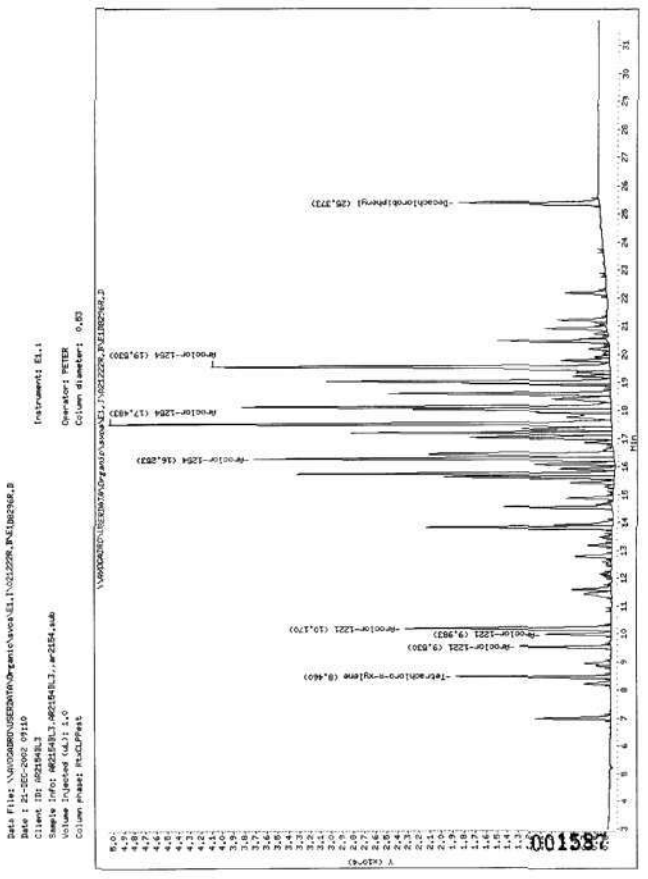
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

001585



001586



001587

Data File: E1D8296F.D
Report Date: 23-Dec-2002 11:05

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1D8296F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1D8296R.D
Inj Date : 21-DEC-2002 09:10
Sample Info: AR2154BL3,AR2154BL3,,ar2154.sub
Misc Info : 1,3,,1
Cal Date : 23-DEC-2002 10:55
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1_PCB_R.m
Sub List #1 : ar2154.sub
Sub List #2 : ar2154.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.803	8.460	10348	14130	0.020	0.019		100.00(a)
Aroclor-1221	7.447	9.530	5294	8332	1.0	1.0	80.00- 120.00	100.00
	7.920	9.383	3799	6057	1.0	1.0	52.58- 92.58	72.58
	8.057	10.170	12454	18728	1.0	0.98	217.94- 257.94	237.94
			Average of Peak Amounts =		1.0	0.99		
Aroclor-1254	13.087	16.263	14585	32349	0.99	0.97	80.00- 120.00	100.00
	14.860	17.483	25877	45916	1.00	1.0	157.42- 197.42	177.42
	16.830	19.530	22394	36441	1.0	1.0	133.56- 173.56	153.56
			Average of Peak Amounts =		1.00	0.99		
Decachlorobiphenyl	22.177	25.373	10839	12874	0.019	0.018		100.00(a)

SZ 1/13/04

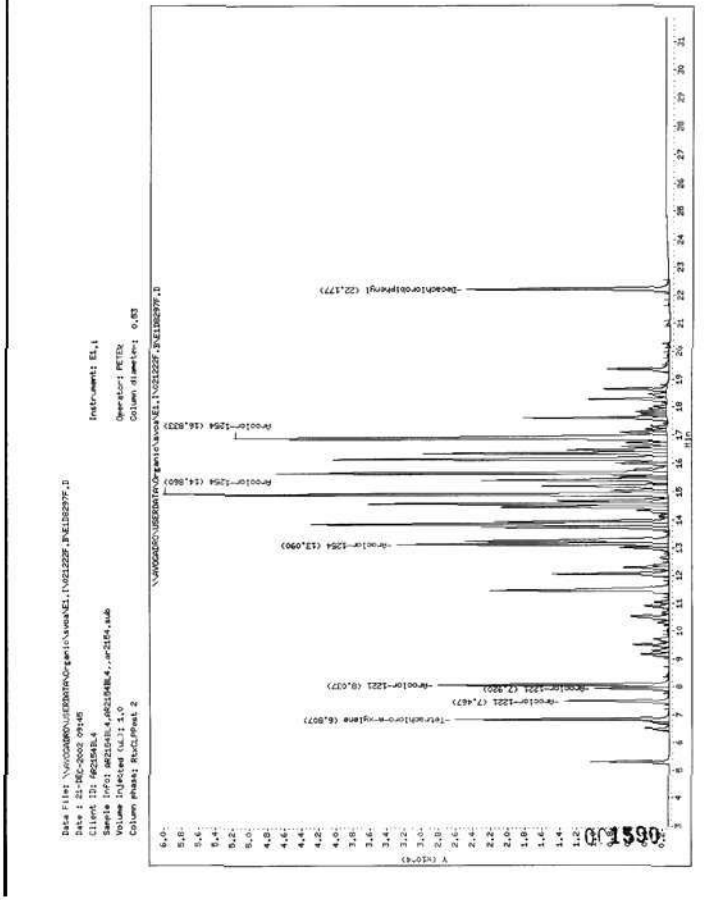
001588

Data File: E1D8296F.D
Report Date: 23-Dec-2002 11:05

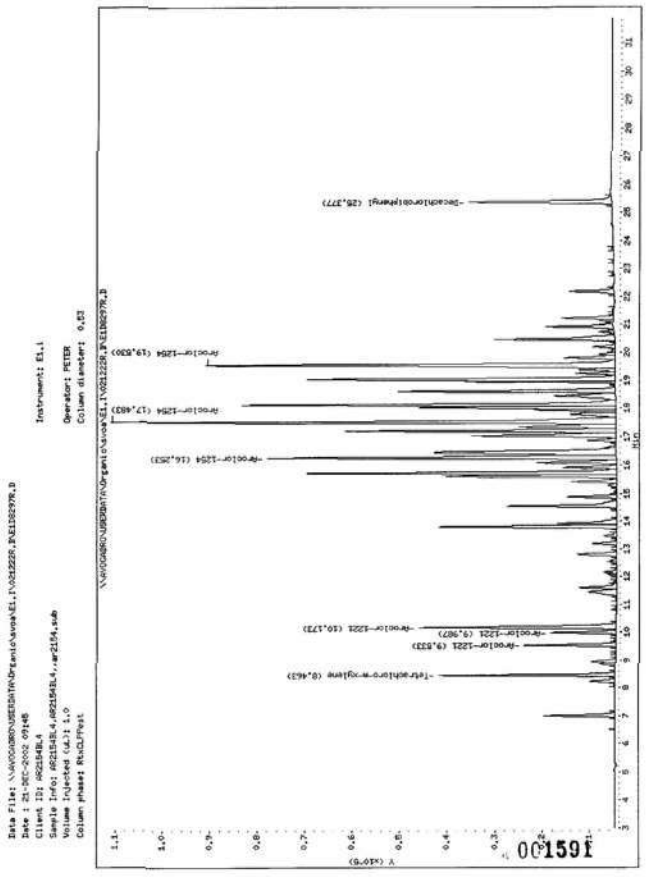
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

001589



001590



Data File: E1D8297F.D
Report Date: 23-Dec-2002 11:05

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1D8297F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1D8297R.D
Inj Date : 21-DEC-2002 09:45
Sample Info: AR2154BL4,AR2154BL4,,ar2154.sub
Misc Info : 1,4,,1
Cal Date : 23-DEC-2002 10:55
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1_PCB_R.m
Sub List #1 : ar2154.sub
Sub List #2 : ar2154.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

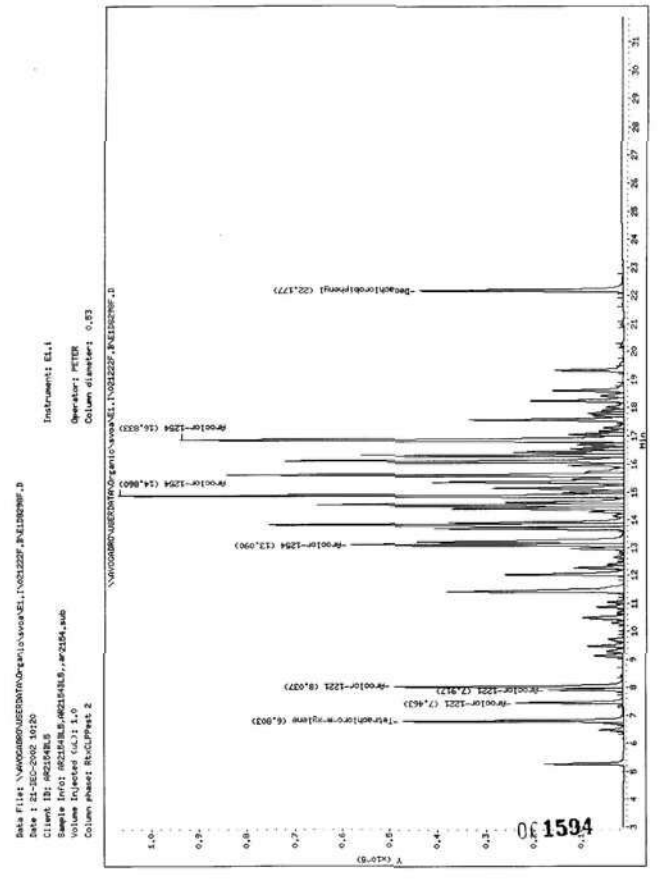
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	8.807	8.463	24931	36913	0.050	0.050		100.00(a)
Aroclor-1221	7.467	9.533	12188	19475	2.4	2.3	80.00- 120.00	100.00
	7.920	9.987	8423	13765	2.3	2.3	52.58- 92.58	70.75
	8.037	10.173	26905	41340	2.3	2.2	217.94- 257.94	220.75
			Average of Peak Amounts =		2.3	2.3		
Aroclor-1254	13.090	16.253	31616	72423	2.2	2.2	80.00- 120.00	100.00
	14.860	17.483	58668	104292	2.3	2.3	157.42- 197.42	185.56
	16.833	19.530	50384	86035	2.2	2.4	133.56- 173.56	159.36
			Average of Peak Amounts =		2.3	2.3		
Decachlorobiphenyl	*22.177*	*28.377*	*29452*	*30217*	*0.042*	*0.042*		*100.00(a)*

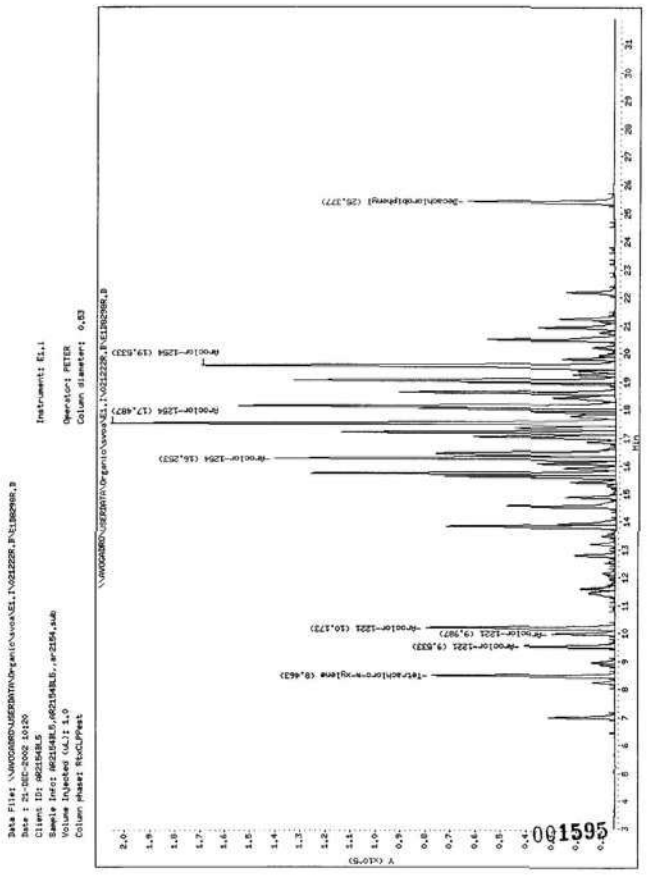
SZ 12/30/02

Data File: E1D8297F.D
Report Date: 23-Dec-2002 11:05

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).





Data File: E1D8298F.D
Report Date: 23-Dec-2002 11:05

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1D8298F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1D8298R.D
Inj Date : 21-DEC-2002 10:20
Sample Info: AR2154BL5,AR2154BL5,,ar2154.sub
Misc Info : 1,5,,1
Cal Date : 23-DEC-2002 10:55
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1_PCB_R.m
Sub List #1 : ar2154.sub
Sub List #2 : ar2154.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

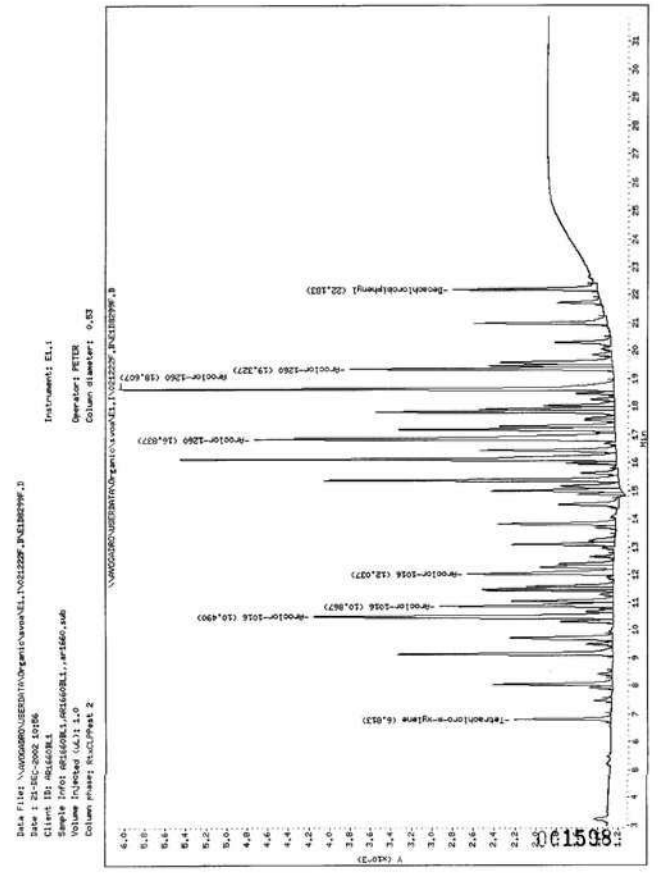
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.803	8.463	45901	72783	0.091	0.099		100.00[a]
Aroclor-1221	7.443	9.533	22426	36281	4.4	4.4	80.00- 120.00	100.00
	7.917	9.987	15666	25178	4.2	4.2	52.58- 92.58	69.86
	8.037	10.173	47683	75070	3.8	4.0	217.94- 257.94	212.62
			Average of Peak Amounts =		4.1	4.2		
Aroclor-1254	13.090	16.253	56567	135878	3.9	4.0	80.00- 120.00	100.00
	14.860	17.487	105699	200983	4.1	4.4	157.42- 197.42	185.54
	16.833	19.533	92487	164783	4.1	4.5	133.56- 173.56	162.70
			Average of Peak Amounts =		4.0	4.3		
Decachlorobiphenyl	23.177	25.377	42591	58117	0.073	0.082		100.00[a]

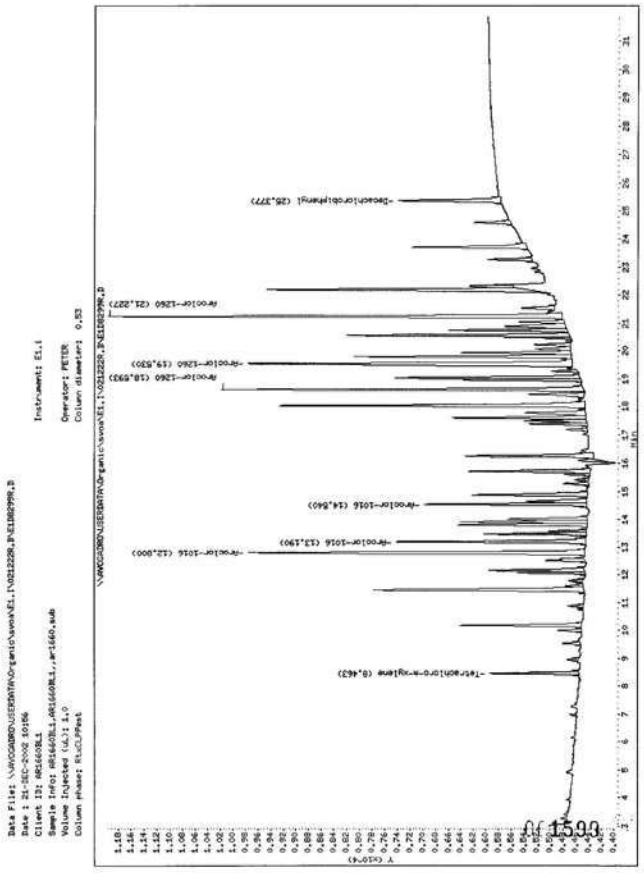
52 12/23/02

Data File: E1D8298F.D
Report Date: 23-Dec-2002 11:05

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).





Data File: E1D8299F.D
Report Date: 23-Dec-2002 11:05

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1D8299F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1D8299R.D
Inj Date : 21-DEC-2002 10:56
Sample Info: AR1660BL1,AR1660BL1,,ar1660.sub
Misc Info : 1,1,,1
Cal Date : 23-DEC-2002 10:55
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

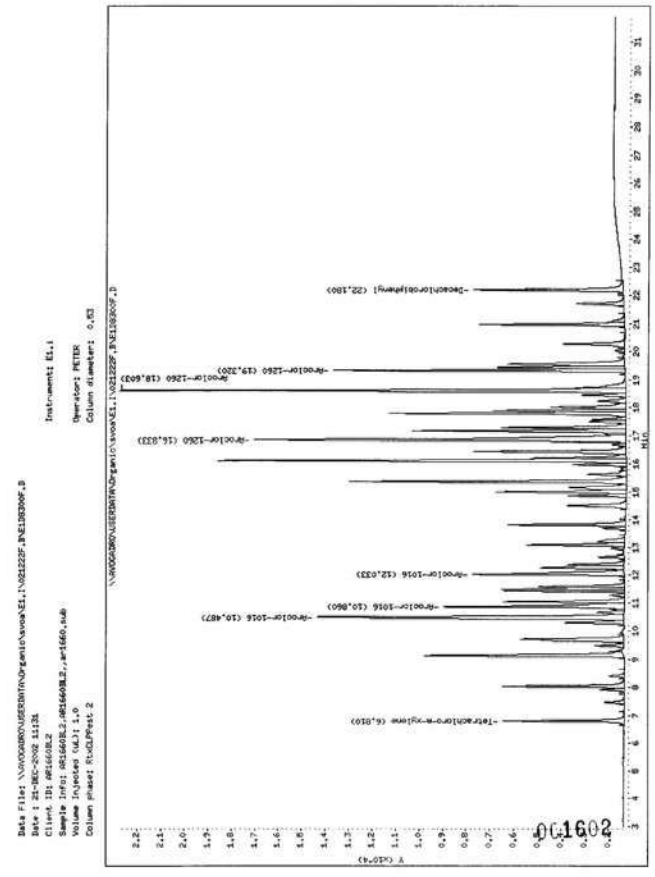
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	8.813	8.463	337	1389	0.0019	0.0019		100.00(a)
Aroclor-1016	12.037	12.800	1411	5295	0.12	0.11	80.00- 120.00	100.00(a)
	13.490	13.190	2907	2867	0.12	0.12	181.41- 221.41	204.02(a)
	10.867	14.540	1675	2546	0.13	0.12	98.97- 138.97	118.71(a)
			Average of Peak Amounts =		0.12	0.12		
Decachlorobiphenyl	22.183	25.377	1395	1624	0.0024	0.0023		100.00(a)
Aroclor-1260	16.837	18.593	3504	5723	0.12	0.13	80.00- 120.00	100.00(a)
	18.607	19.530	4805	5117	0.12	0.11	114.58- 154.58	137.16(a)
	19.327	21.227	2564	7140	0.11	0.11	58.90- 98.90	73.13(a)
			Average of Peak Amounts =		0.12	0.12		

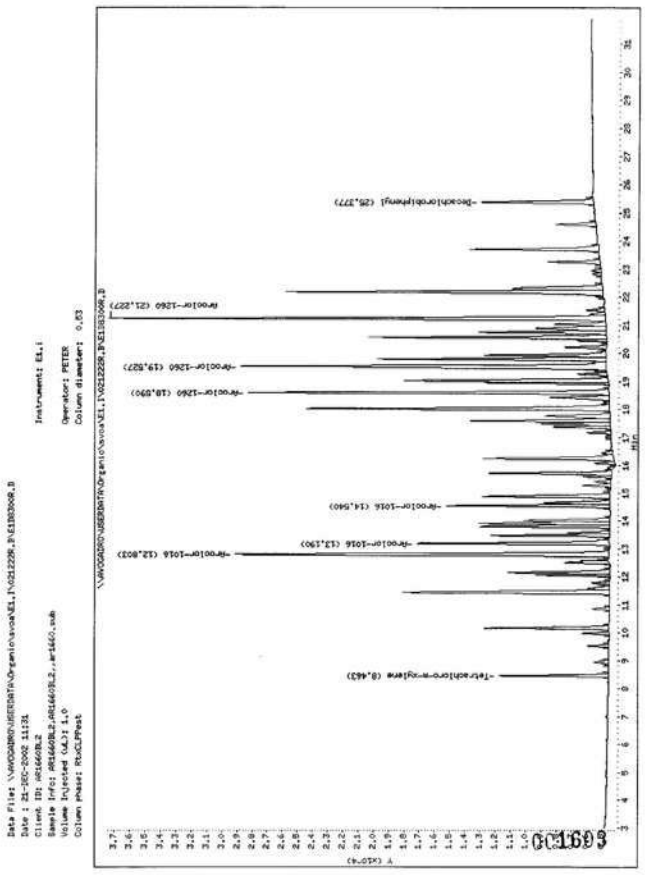
12/23/02

Data File: E1D8299F.D
Report Date: 23-Dec-2002 11:05

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).





001603

Data File: E1D8300F.D
Report Date: 23-Dec-2002 11:05

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1D8300F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1D8300R.D
Inj Date : 21-DEC-2002 11:31
Sample Info: AR1660BL2,AR1660BL2,,ar1660.sub
Misc Info : 1,2,,1
Cal Date : 23-DEC-2002 10:55
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.810	8.463	5105	7110	0.010	0.0096		100.00(a)
Aroclor-1016	12.033	12.803	6419	24562	0.54	0.52	80.00- 120.00	100.00(a)
	10.487	13.190	12998	11578	0.54	0.52	181.41- 221.41	202.68(a)
	10.860	14.540	7614	10722	0.54	0.52	98.97- 138.97	118.73(a)
			Average of Peak Amounts =		0.54	0.52		
Decachlorobiphenyl	22.180	25.377	6287	7370	0.011	0.010		100.00(a)
Aroclor-1260	16.833	18.590	15758	23714	0.54	0.52	80.00- 120.00	100.00(a)
	16.603	19.527	21425	23999	0.53	0.52	114.58- 154.58	135.95(a)
	19.320	21.227	12346	32561	0.53	0.50	58.90- 98.90	78.34(a)
			Average of Peak Amounts =		0.53	0.51		

12/23/02

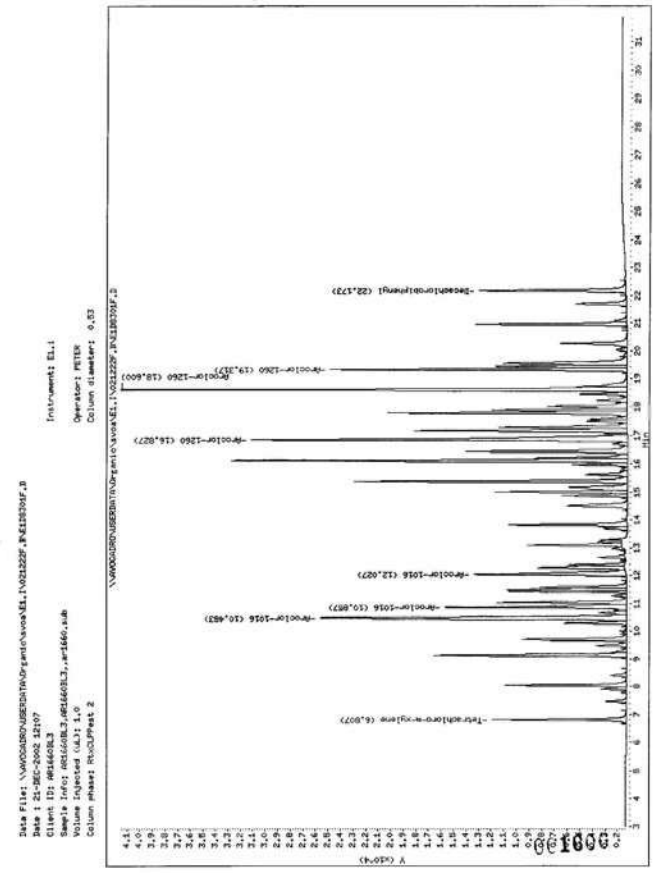
001604

Data File: E1D8300F.D
Report Date: 23-Dec-2002 11:05

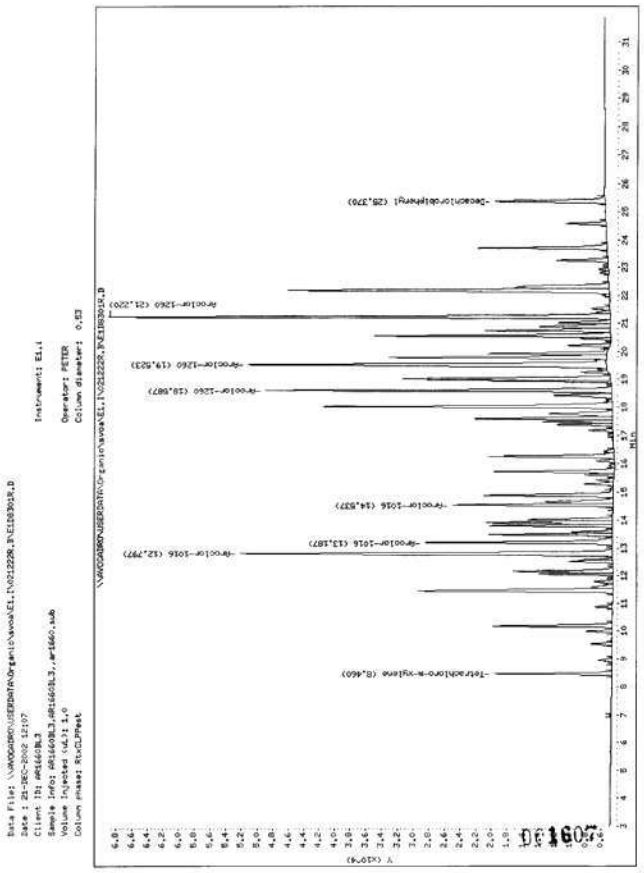
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

001605



001606



00 1607

Data File: E1D8301F.D
Report Date: 23-Dec-2002 11:05

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1D8301F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1D8301R.D
Inj Date : 21-DEC-2002 12:07
Sample Info: AR1660BL3,AR1660BL3,,ar1660.sub
Misc Info : 1,3,,1
Cal Date : 23-DEC-2002 10:55
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	8.807	8.460	10622	14960	0.021	0.020		100.00(a)
Aroclor-1016	12.017	12.797	13085	47593	1.0	1.0	80.00- 120.00	100.00
	10.483	13.187	24341	23914	1.0	0.99	181.41- 221.41	201.41
	10.857	14.537	14378	20439	1.0	0.98	98.97- 138.97	118.97
			Average of Peak Amounts =		1.0	0.99		
Decachlorobiphenyl	22.173	25.370	11471	14001	0.020	0.020		100.00(a)
Aroclor-1260	16.827	18.687	29905	44202	1.0	0.98	80.00- 120.00	100.00
	18.600	19.523	40246	45836	1.0	0.99	114.58- 154.58	134.58
	19.317	21.220	23594	64047	1.0	0.99	58.90- 98.90	78.90
			Average of Peak Amounts =		1.0	0.99		

12/18/03

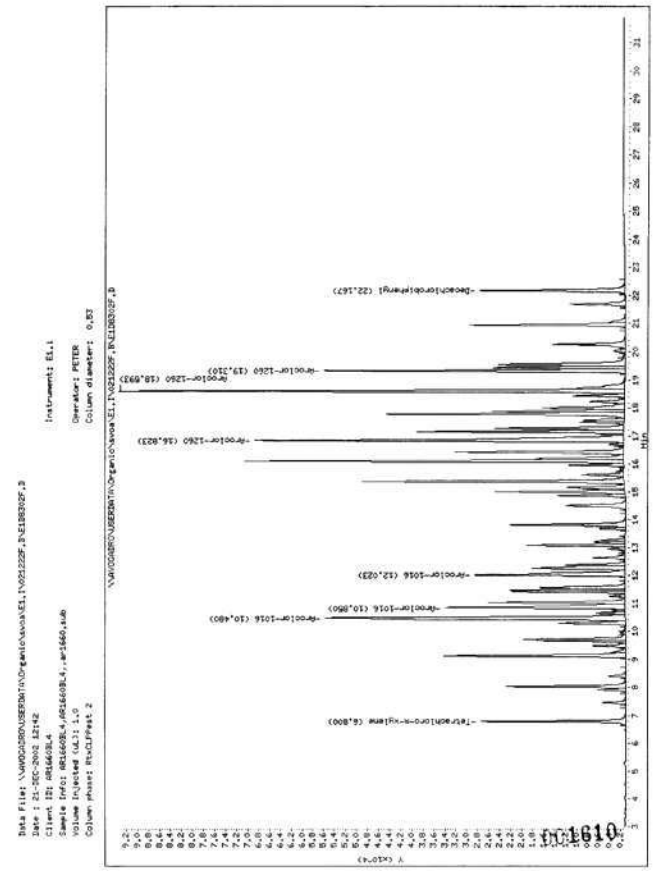
00 1608

Data File: E1D8301F.D
Report Date: 23-Dec-2002 11:05

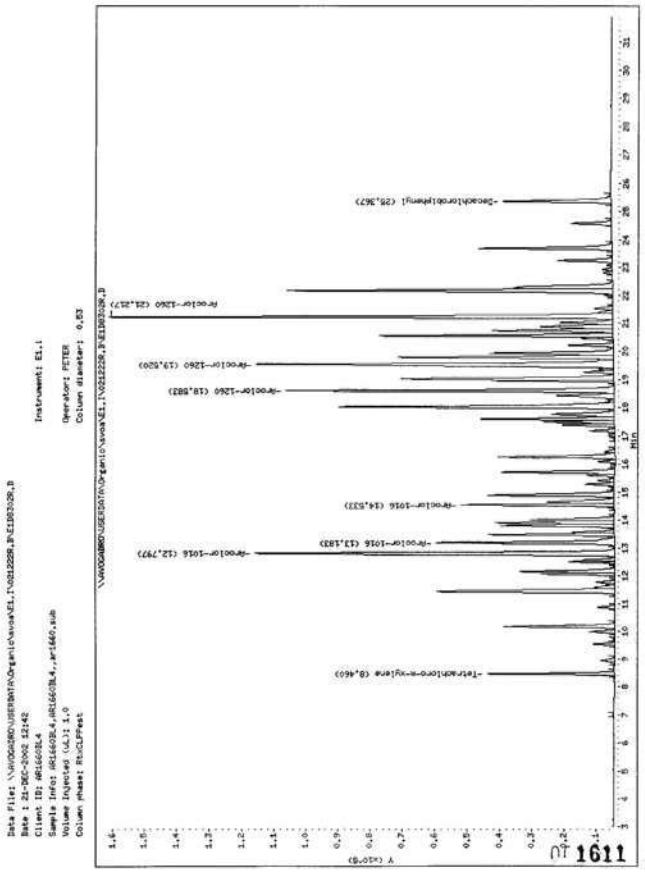
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

00 1609



00 1610



001611

Data File: E1D8302F.D
Report Date: 23-Dec-2002 11:05

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1D8302F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1D8302R.D
Inj Date : 21-DEC-2002 12:42
Sample Info: AR1660BL4,AR1660BL4,,ar1660.sub
Misc Info : 1,4,,1
Cal Date : 23-DEC-2002 10:55
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.800	8.460	26248	39322	0.052	0.053		100.00
Aroclor-1016	12.023	12.797	27321	111653	2.3	2.4	80.00- 120.00	100.00
	10.480	13.183	54617	55329	2.3	2.3	181.41- 221.41	199.91
	10.850	14.533	32645	47645	2.3	2.3	98.97- 138.97	119.49
			Average of Peak Amounts =		2.3	2.3		
Decachlorobiphenyl	22.167	25.367	26349	33571	0.045	0.047		100.00(a)
Aroclor-1260	16.823	18.583	67146	101725	2.3	2.2	80.00- 120.00	100.00
	18.593	19.920	91952	110745	2.3	2.4	114.58- 154.58	136.94
	19.310	21.217	54804	155859	2.4	2.4	58.90- 98.90	81.62
			Average of Peak Amounts =		2.3	2.3		

12/23/02

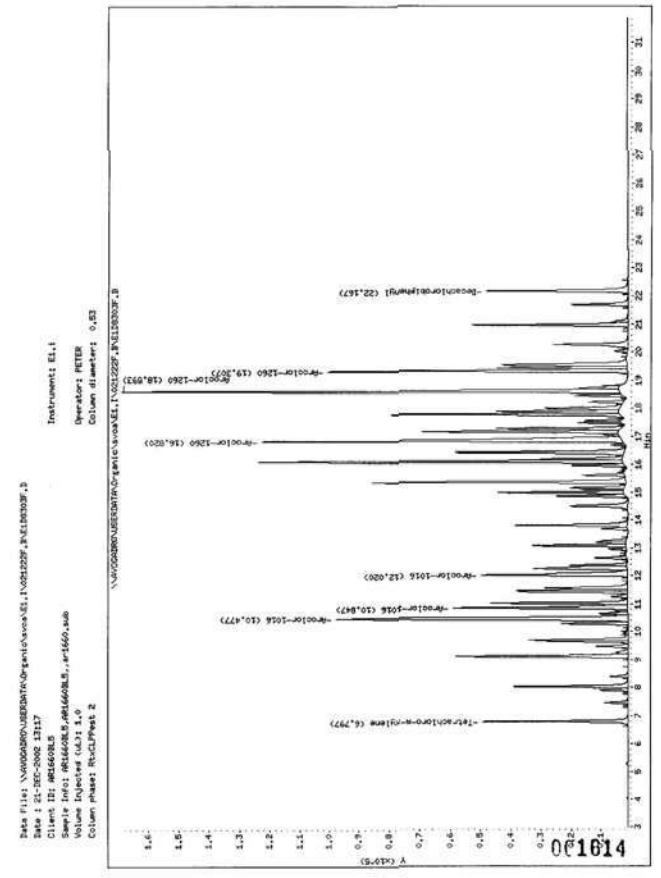
001612

Data File: E1D8302F.D
Report Date: 23-Dec-2002 11:05

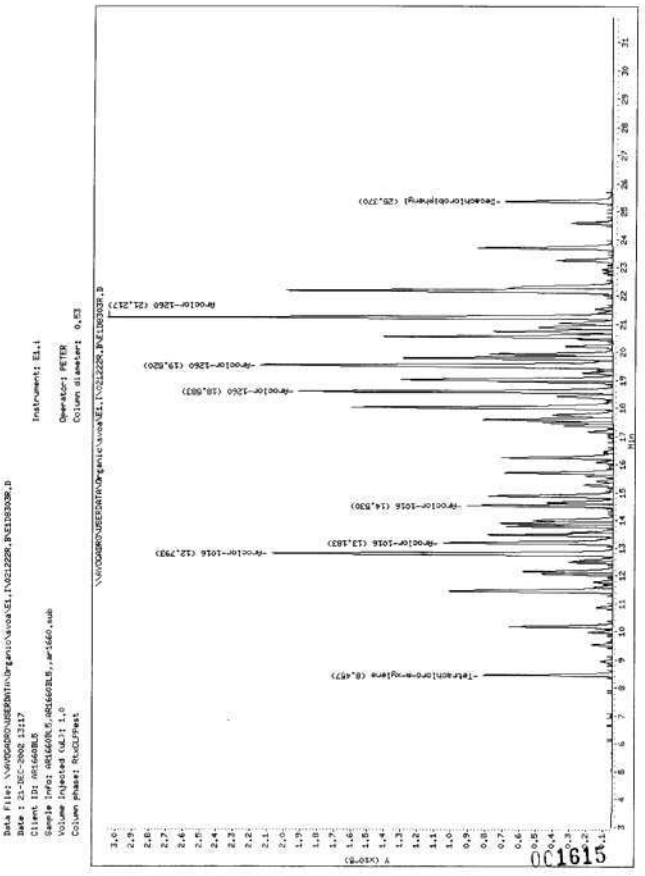
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

001613



001614



0C1615

Data File: E1D8303F.D
Report Date: 23-Dec-2002 11:05

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1D8303F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1D8303R.D
Inj Date : 21-DEC-2002 13:17
Sample Info: AR1660BL5,AR1660BL5,,ar1660.sub
Misc Info : 1,5,,1
Cal Date : 23-DEC-2002 10:55
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021222R.B\E1_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

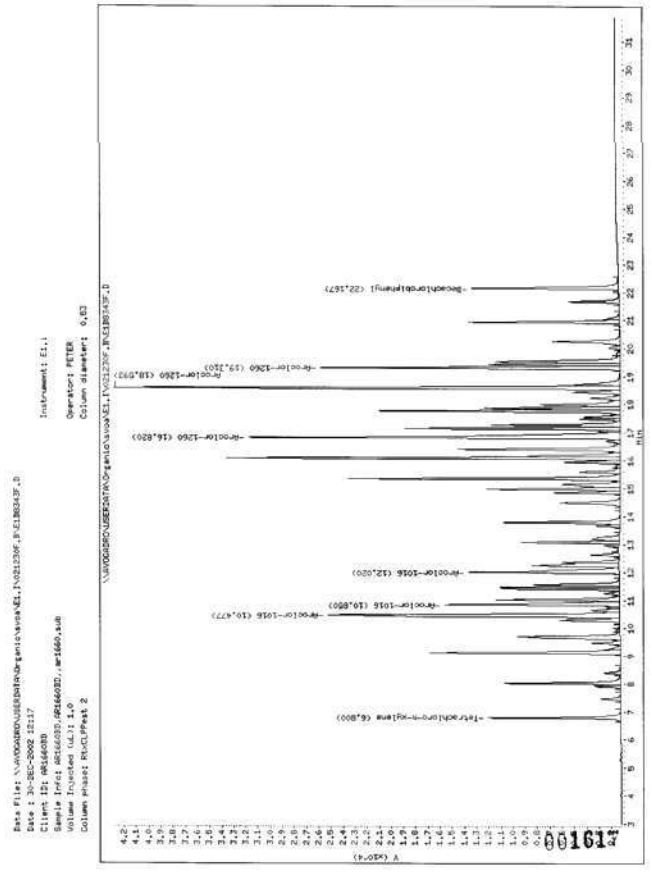
Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

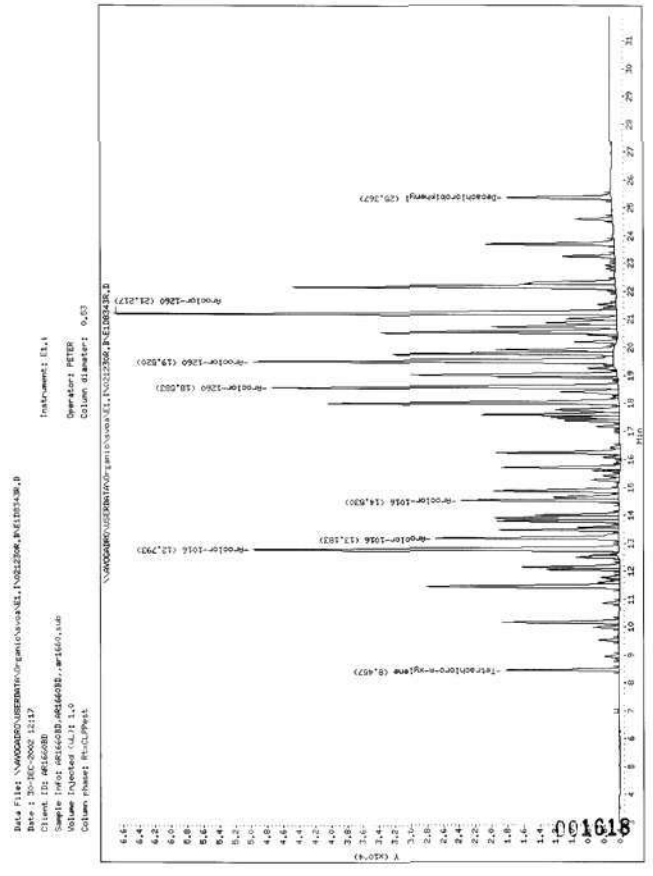
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	8.797	8.457	48173	76768	0.094	0.10		100.00
Aroclor-1016	13.020	12.793	48586	302617	4.1	4.3	80.00- 120.00	100.00
	10.477	13.183	96630	100432	4.0	4.2	181.41- 221.41	198.89
	10.847	14.530	57988	86836	4.1	4.2	98.97- 138.97	119.36
			Average of Peak Amounts =		4.1	4.2		
Decachlorobiphenyl	22.167	25.370	46978	63662	0.081	0.089		100.00
Aroclor-1260	16.820	18.593	119674	186958	4.1	4.1	80.00- 120.00	100.00
	18.593	19.520	164933	259701	4.1	4.5	114.58- 154.58	137.81
	19.307	21.217	95461	350061	4.3	4.6	58.90- 98.90	83.11
			Average of Peak Amounts =		4.2	4.4		

57 11/8/03

0C1616



001617



001618

Data File: E1D8343F.D
Report Date: 07-Jan-2003 10:49

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1D8343F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1D8343R.D
Inj Date : 30-DEC-2002 12:17
Sample Info: AR1660BD,AR1660BD,,ar1660.sub
Misc Info : 2,,,1,,
Cal Date : 31-DEC-2002 09:23
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

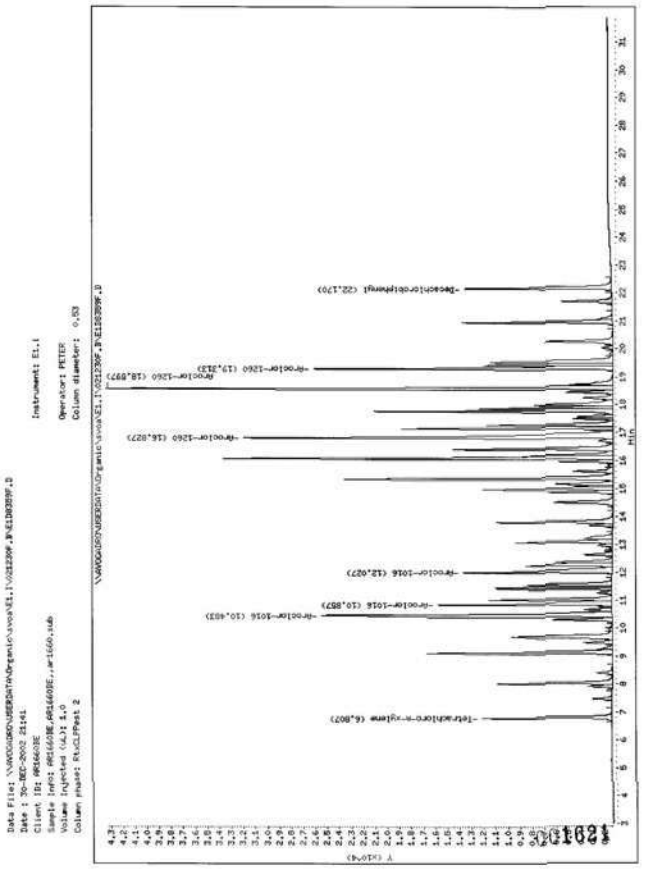
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	%Dev
Tetrachloro-m-xylene	6.800	8.457	10401	14024	0.021	0.019		100.00(a)
Aroclor 1016	13.020	12.993	12310	45550	1.0	0.97	60.50- 120.00	100.00
	10.477	13.183	21916	22769	0.99	0.94	160.43- 220.45	194.28
	10.850	14.530	14269	19548	1.0	0.94	98.51 136.51	155.91
			Average of Peak Amounts =		1.00	0.95		
Decachlorobiphenyl	22.167	25.367	11980	13900	0.021	0.018		100.00(a)
Aroclor-1260	16.820	18.583	30451	43183	1.0	0.95	80.00- 120.00	100.00
	18.593	19.520	41583	44946	1.0	0.97	116.72- 156.72	136.56
	19.310	31.317	24516	63725	1.0	0.97	60.94- 100.94	80.51
			Average of Peak Amounts =		1.0	0.96		

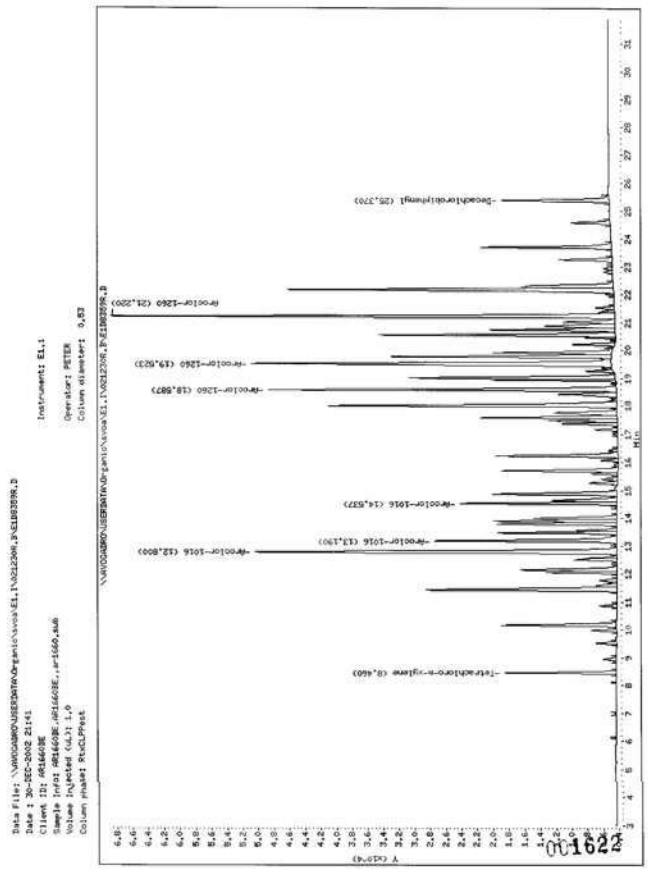
BmF
01/07/03

Data File: E1D8343F.D
Report Date: 07-Jan-2003 10:49

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).





Data File: E1D8359F.D
Report Date: 07-Jan-2003 10:50

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1D8359F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1D8359R.D
Inj Date : 30-DEC-2002 21:41
Sample Info: AR1660BE,AR1660BE,,ar1660.sub
Misc Info : 2,,,1,,
Cal Date : 31-DEC-2002 09:26
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

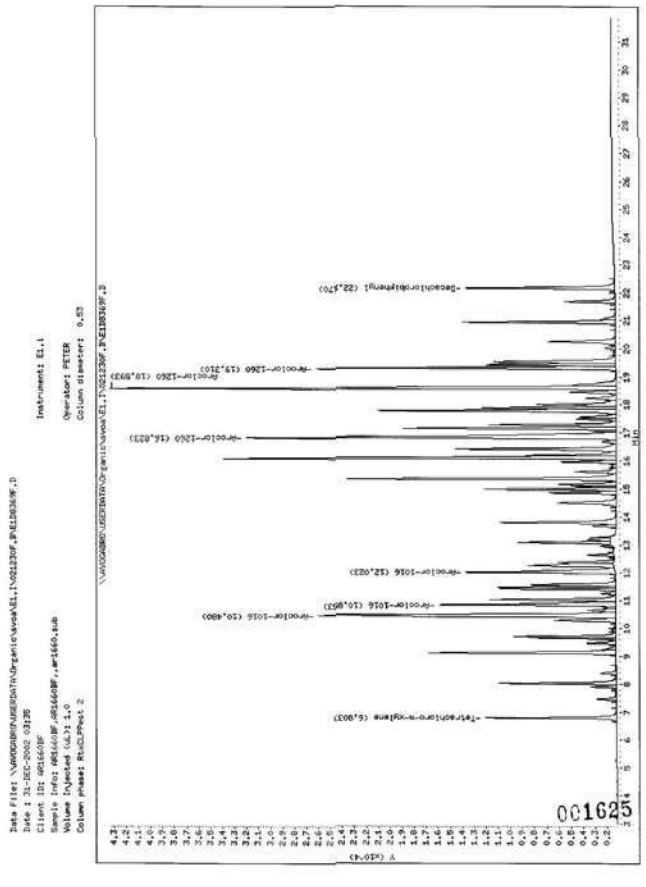
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.807	8.440	10458	14124	0.021	0.019		100.00[a]
Aroclor-1016	12.027	12.800	12253	46076	1.0	0.98	80.00- 120.00	100.00
	10.483	13.190	24083	23039	1.00	0.95	180.45- 220.45	196.55
	10.857	14.537	14375	19861	1.0	0.96	98.51- 138.51	117.32
			Average of Peak Amount#'s =		1.0	0.96		
Decachlorobiphenyl	22.170	25.370	12077	13555	0.021	0.019		100.00[a]
Aroclor-1260	16.827	18.587	10674	44296	1.0	0.98	80.00- 120.00	100.00
	18.597	19.523	43095	46816	1.0	0.99	116.72- 156.72	137.23
	19.313	21.220	24801	64215	1.1	0.99	60.94- 100.94	80.85
			Average of Peak Amount#'s =		1.0	0.99		

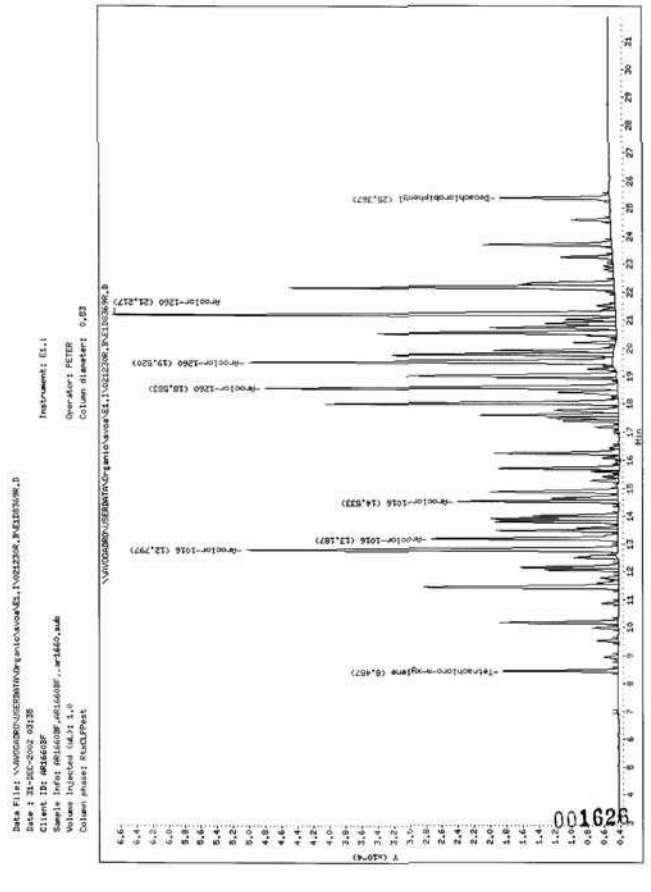
RMF
01/07/03

Data File: E1D8359F.D
Report Date: 07-Jan-2003 10:50

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).





Data File: E1D8369F.D
Report Date: 07-Jan-2003 10:50

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1D8369F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1D8369R.D
Inj Date : 31-DEC-2002 03:35
Sample Info: AR1660BF,AR1660BF,,ar1660.sub
Misc Info : 2,,,1,,
Cal Date : 31-DEC-2002 09:27
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

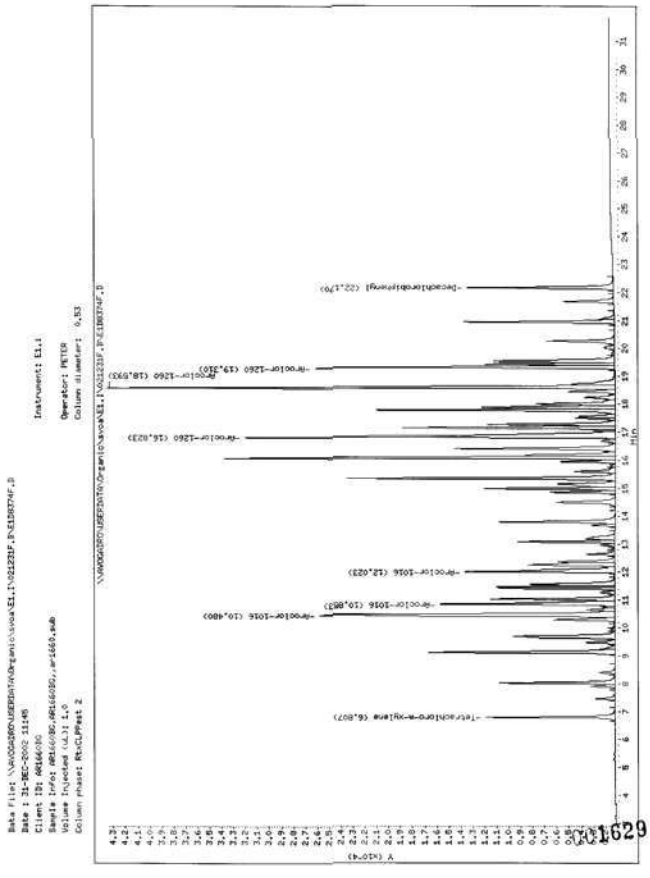
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.803	8.457	10809	15224	0.021	0.019		100.00(a)
Aroclor-1016	12.023	12.797	12317	46095	1.0	0.98	80.00- 120.00	100.00
	13.480	13.187	24669	23918	1.0	0.95	183.45- 226.45	205.45
	10.853	14.533	14597	19816	1.0	0.96	98.51- 138.51	118.51
			Average of Peak Amounts =		1.0	0.96		
Decachlorobiphenyl	22.170	25.367	12340	11530	0.021	0.019		100.00(a)
Aroclor-1260	16.823	18.581	32767	41772	1.0	0.96	80.00- 120.00	100.00
	18.591	19.520	42065	49124	1.0	0.98	116.72- 156.72	136.72
	19.310	21.217	24904	62400	1.3	0.97	60.94- 100.94	80.94
			Average of Peak Amounts =		1.0	0.97		

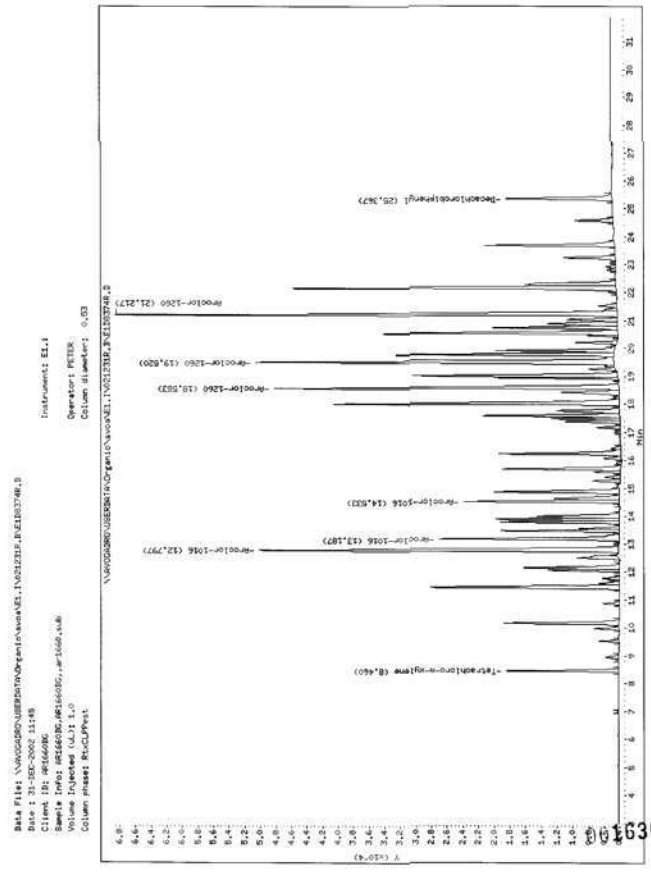
BMF
01/07/03

Data File: E1D8369F.D
Report Date: 07-Jan-2003 10:50

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).





Data File: E1D8374F.D
Report Date: 07-Jan-2003 10:50

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021231F.B\E1D8374F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021231R.B\E1D8374R.D
Inj Date : 31-DEC-2002 11:45
Sample Info: AR1660BG,AR1660BG,,ar1660.sub
Misc Info : 2,,,1,,
Cal Date : 02-JAN-2003 10:19
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021231F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021231R.B\E1_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

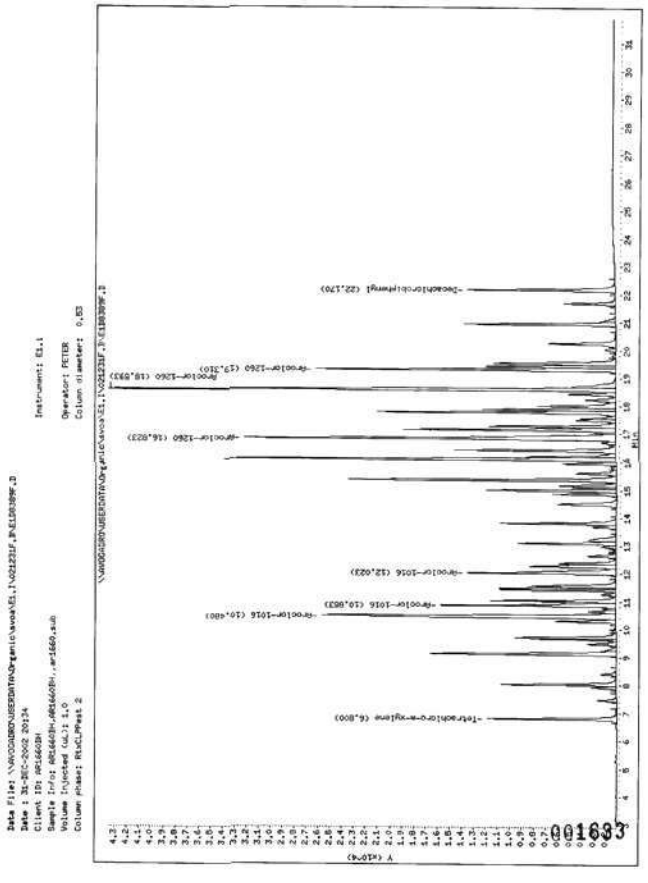
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.807	8.460	10712	14291	0.021	0.019		100.00(a)
Aroclor-1016	12.023	12.797	12785	46016	1.0	0.98	80.00- 120.00	100.00
	10.480	13.183	24540	22997	1.0	0.95	179.62- 219.62	196.14
	10.553	14.533	14667	17854	1.0	0.96	98.06- 138.06	116.91
			Average of Peak Amounts =		1.0	0.96		
Decachlorobiphenyl	22.170	25.367	12136	13460	0.021	0.019		100.00(a)
Aroclor-1260	16.823	18.583	38902	44102	1.0	0.97	80.00- 120.00	100.00
	18.553	19.520	42294	45826	1.0	0.99	116.47- 156.47	136.86
	19.110	21.217	24916	64343	1.1	1.08	60.60- 100.60	80.69
			Average of Peak Amounts =		1.0	0.99		

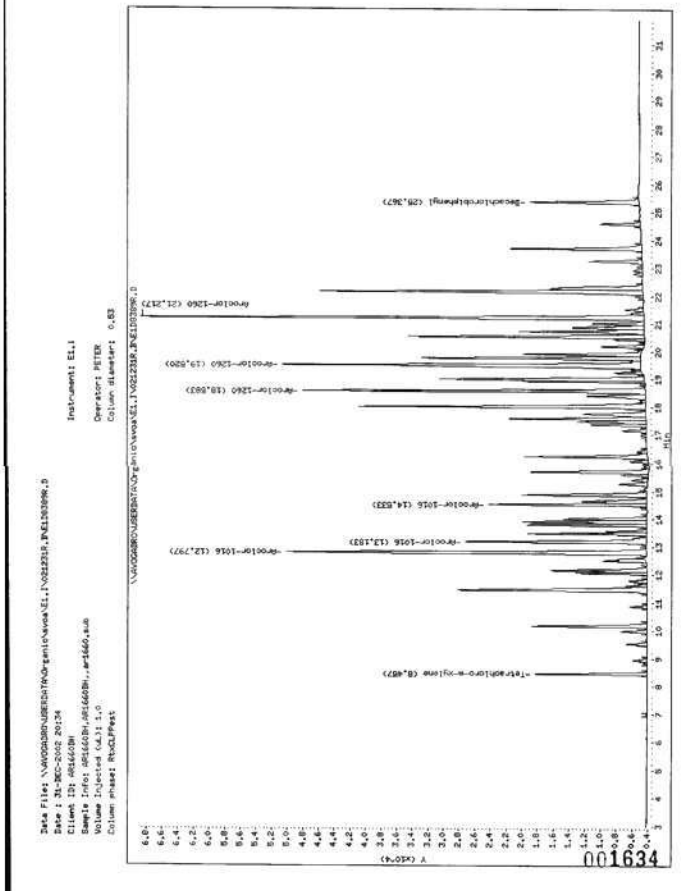
BMF
01/07/03

Data File: E1D8374F.D
Report Date: 07-Jan-2003 10:50

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).





Data File: E1D8389F.D
Report Date: 07-Jan-2003 10:50

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021231F.B\E1D8389F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021231R.B\E1D8389R.D
Inj Date : 31-DEC-2002 20:34
Sample Info: AR1660BH,AR1660BH,,ar1660.sub
Misc Info : 2,,,1,,
Cal Date : 02-JAN-2003 10:19
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021231F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021231R.B\E1_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

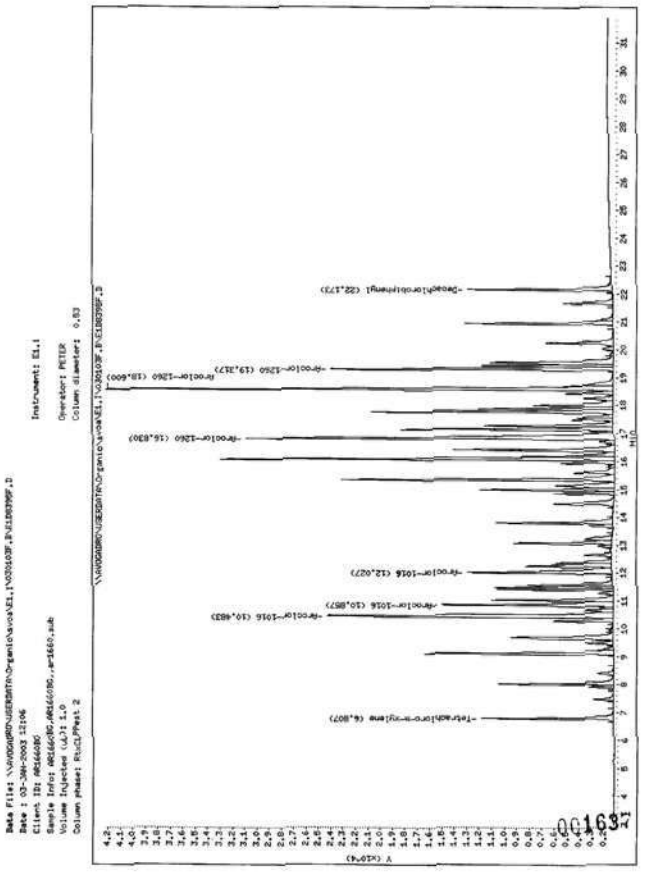
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.800	8.457	10682	14178	0.821	0.019		100.00(a)
Aroclor-1016	12.023	13.797	12266	45848	1.0	0.98	80.00- 120.00	100.00
	10.480	13.183	24486	22951	1.0	0.95	179.62- 219.62	199.62
	10.853	14.533	14481	19969	1.0	0.96	98.06- 138.06	118.06
			Average of peak Amounts =		1.0	0.96		
Decachlorobiphenyl	22.170	25.367	12136	13796	0.021	0.019		100.00(a)
Aroclor-1260	16.823	18.581	30971	43710	1.0	0.96	80.00- 120.00	100.00
	18.593	19.520	42246	45639	1.0	0.99	136.47- 156.47	136.47
	19.310	21.217	24962	64147	1.1	0.99	60.60- 100.60	80.60
			Average of peak Amounts =		1.0	0.98		

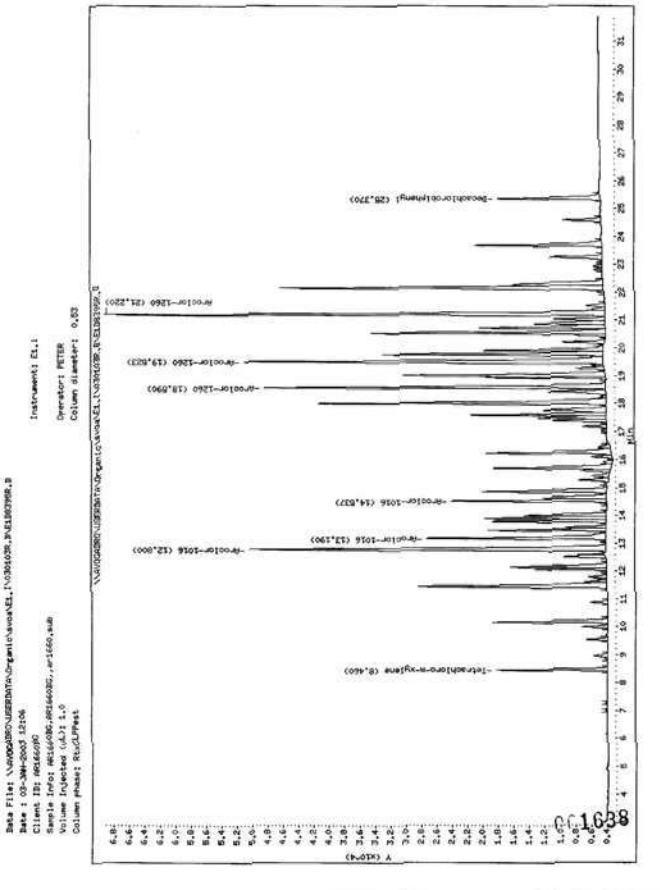
BMF
01/07/03

Data File: E1D8389F.D
Report Date: 07-Jan-2003 10:50

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).





Data File: E1D8395F.D
Report Date: 07-Jan-2003 12:05

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103F.B\E1D8395F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103R.B\E1D8395R.D
Inj Date : 03-JAN-2003 12:06
Sample Info: AR1660BG,AR1660BG,,ar1660.sub
Misc Info : 2,,,1,,
Cal Date : 06-JAN-2003 09:20
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103R.B\E1_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

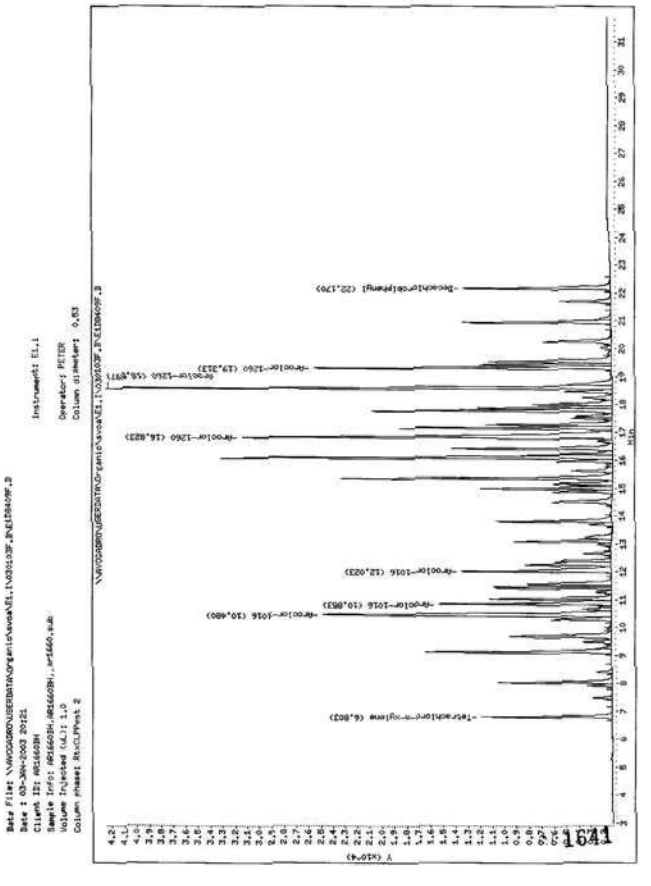
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range		Ratio
Tetrachloro-m-xylene#	6.807	8.460	10602	14313	0.021	0.019			100.00(a)
Aroclor-1016	12.027	12.800	11570	46207	0.97	0.98	80.00-	120.00	100.00(a)
	10.483	13.190	23013	23166	0.95	0.96	177.85-	217.85	198.90(a)
	10.857	14.537	13758	20917	0.97	0.96	97.87-	137.87	118.81(a)
			Average of Peak Amounts =		0.96	0.97			
Decachlorobiphenyl	22.173	25.370	11648	11161	0.020	0.018			100.00(a)
Aroclor-1260	16.830	18.596	29710	44270	1.0	0.97	80.00-	120.00	100.00
	18.600	19.523	40912	46632	1.0	1.0	116.08-	156.08	137.70
	19.317	21.220	32728	64942	0.98	1.0	59.99-	99.99	76.60
			Average of Peak Amounts =		0.99	0.99			

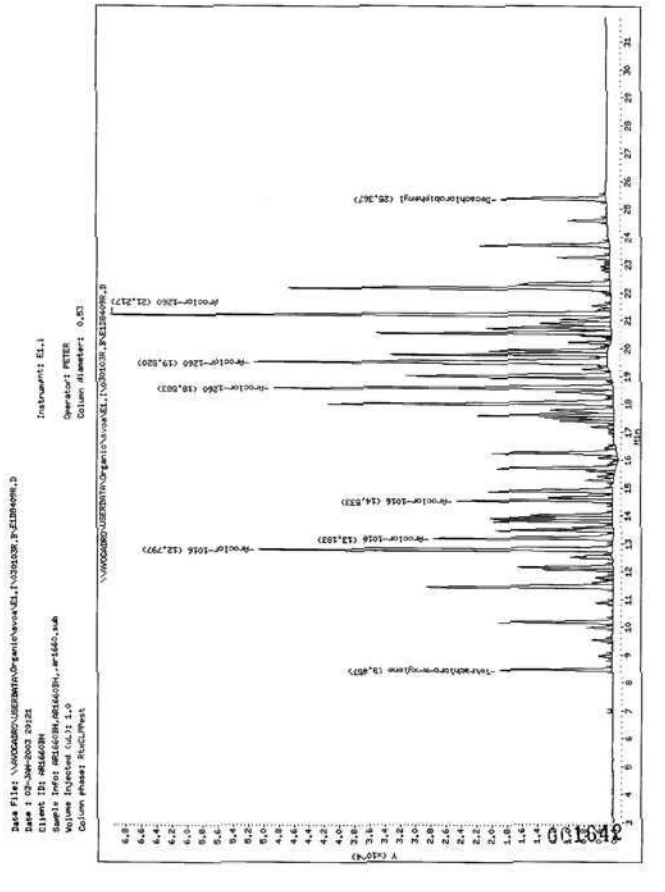
BMF
01/07/03

Data File: E1D8395F.D
Report Date: 07-Jan-2003 12:05

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).





Data File: E1D8409F.D
Report Date: 07-Jan-2003 12:06

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103F.B\E1D8409F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103R.B\E1D8409R.D
Inj Date : 03-JAN-2003 20:21
Sample Info: AR1660BH,AR1660BH,,ar1660.sub
Misc Info : 2,,,1,,
Cal Date : 06-JAN-2003 09:22
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103R.B\E1_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

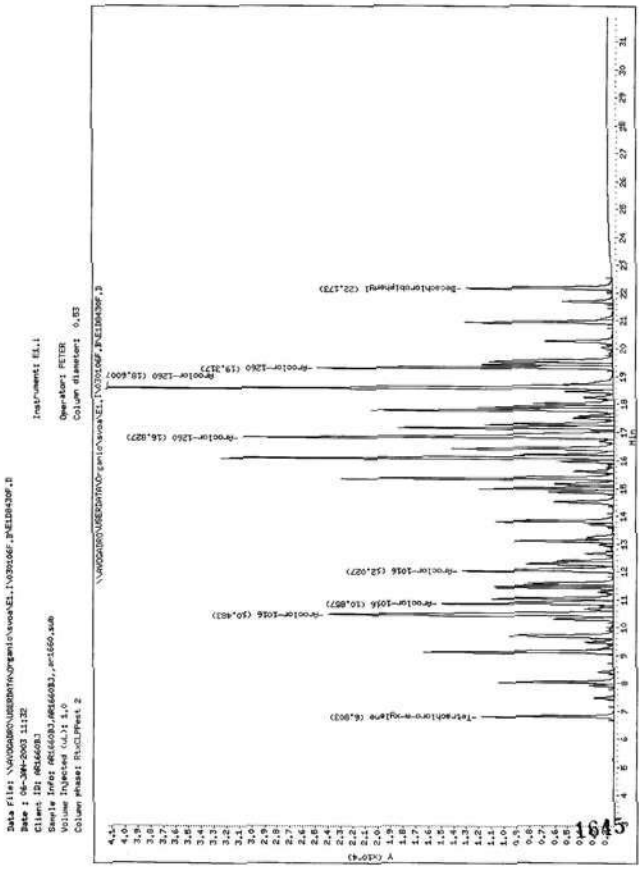
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.803	8.457	10644	14514	0.021	0.020		100.00(a)
Aroclor-1016	12.023	12.797	12149	46339	1.0	0.99	80.00- 120.00	100.00(a)
	10.480	13.183	23519	23335	0.98	0.96	177.85- 217.85	193.59(a)
	10.853	14.533	33965	30116	0.98	0.97	97.87- 137.87	114.95(a)
			Average of Peak Amounts =		0.99	0.97		
Decachlorobiphenyl	22.170	25.367	11949	13620	0.020	0.019		100.00(a)
Aroclor-1260	16.823	18.583	30180	44368	1.0	0.98	80.00- 120.00	100.00
	18.597	19.520	41230	46202	1.0	1.00	316.08- 156.08	136.61
	19.313	21.217	24189	65498	1.0	1.0	59.99- 99.99	80.15
			Average of Peak Amounts =		1.0	0.99		

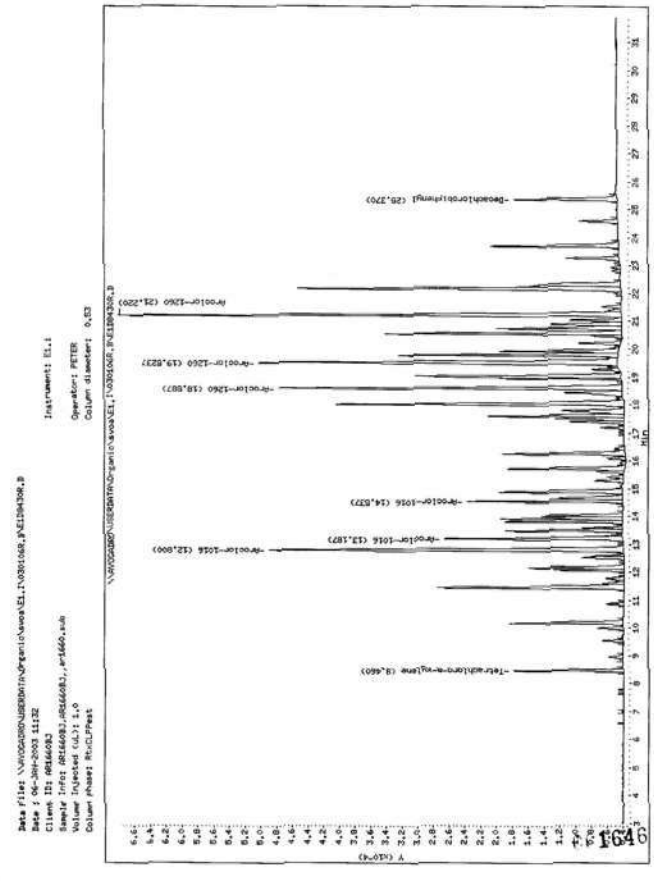
BMF
01/07/03

Data File: E1D8409F.D
Report Date: 07-Jan-2003 12:06

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).





Data File: E1D8430F.D
Report Date: 07-Jan-2003 10:51

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030106F.B\E1D8430F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030106R.B\E1D8430R.D
Inj Date : 06-JAN-2003 11:32
Sample Info: AR1660BJ,AR1660BJ,,ar1660.sub
Misc Info : 2,,,1,,
Cal Date : 06-JAN-2003 16:01
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030106F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030106R.B\E1_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

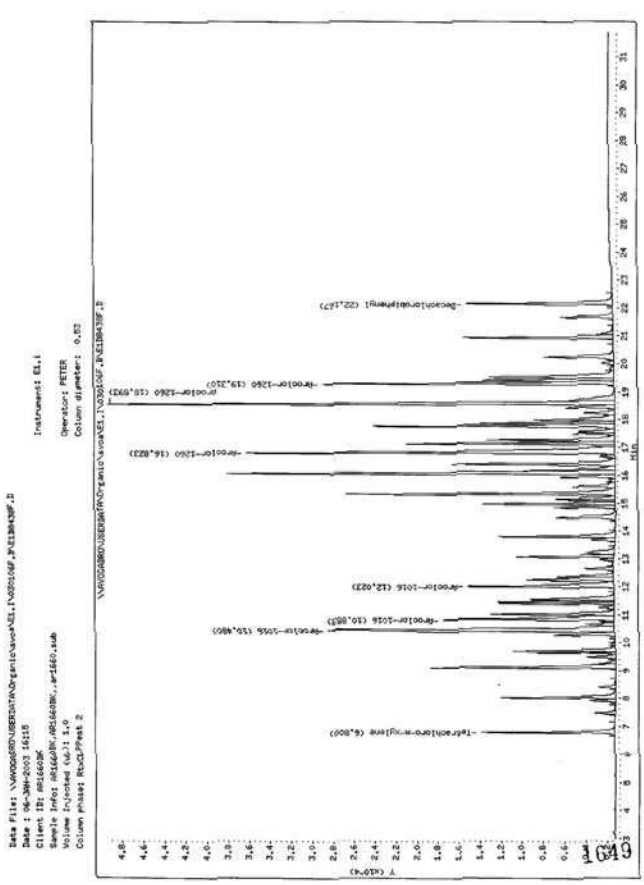
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.863	8.460	10474	13930	0.021	0.019		100.00(a)
Aroclor-1016	12.027	13.906	11949	11949	0.99	0.96	95.90- 125.55	100.00(a)
	10.483	13.187	22520	22524	0.93	0.93	177.27- 217.27	190.06(a)
	10.857	14.537	11516	10593	0.95	0.94	97.56- 137.56	114.07(a)
		Average of Peak Amounts =			0.96	0.94		
Decachlorobiphenyl	22.173	25.370	11518	12949	0.000	0.018		100.00(a)
Aroclor-1260	16.827	18.587	28318	43544	1.00	0.96	80.00- 120.00	100.00
	18.600	19.523	40051	45473	1.00	0.98	117.36- 157.36	136.62
	19.317	21.220	23337	43916	1.0	0.99	58.80- 98.80	79.60
		Average of Peak Amounts =			1.0	0.98		

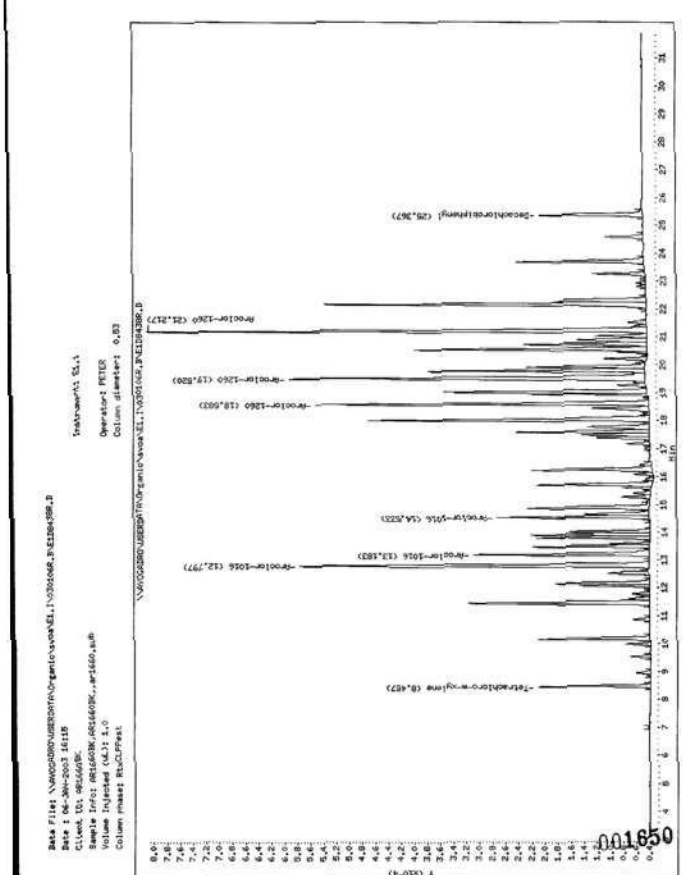
BMF
01/07/03

Data File: E1D8430F.D
Report Date: 07-Jan-2003 10:51

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).





Data File: E1D8438F.D
Report Date: 07-Jan-2003 10:51

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030106F.B\E1D8438F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030106R.B\E1D8438R.D
Inj Date : 06-JAN-2003 16:15
Sample Info: AR1660BK,AR1660BK,,ar1660.sub
Misc Info : 2,,,1,,
Cal Date : 06-JAN-2003 17:02
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030106F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030106R.B\E1_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

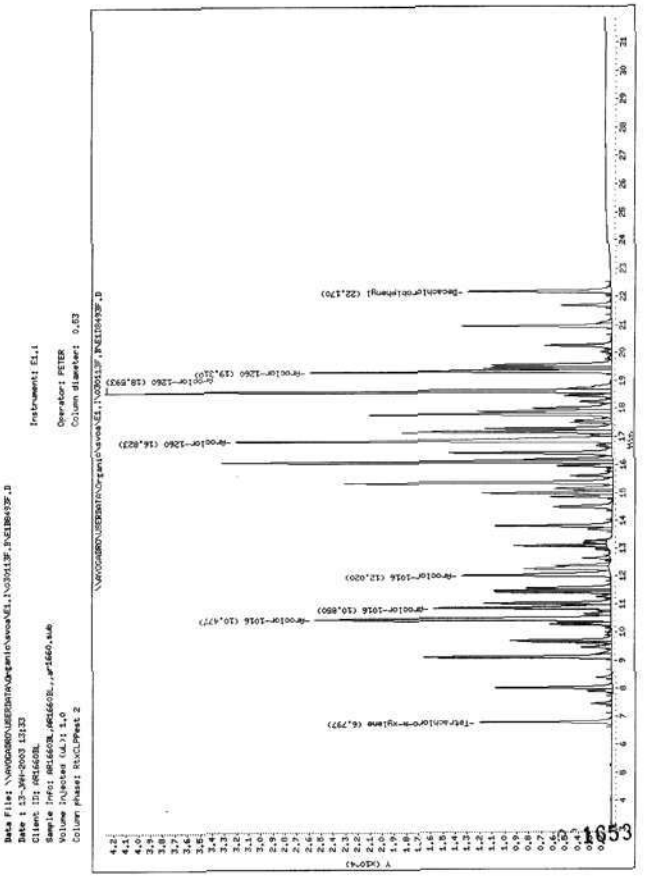
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.800	8.457	12619	17000	0.025	0.029		100.00(a)
Aroclor-1016	12.023	12.797	11790	53522	1.2	1.1	80.00- 120.00	100.00
	10.480	13.183	27203	26825	1.1	1.1	177.27- 217.27	197.27
	10.853	14.533	16212	23202	1.1	1.1	97.56- 137.56	117.56
			Average of Peak Amounts =		1.1	1.1		
Decachlorobiphenyl	22.167	25.367	13797	15699	0.024	0.022		100.00(a)
Aroclor-1260	16.823	18.583	34992	51090	1.2	1.1	80.00- 120.00	100.00
	18.593	19.520	48065	54492	1.2	1.2	117.36- 157.36	137.36
	19.330	21.217	27575	76688	1.2	1.4	58.80- 98.80	78.80
			Average of Peak Amounts =		1.2	1.2		

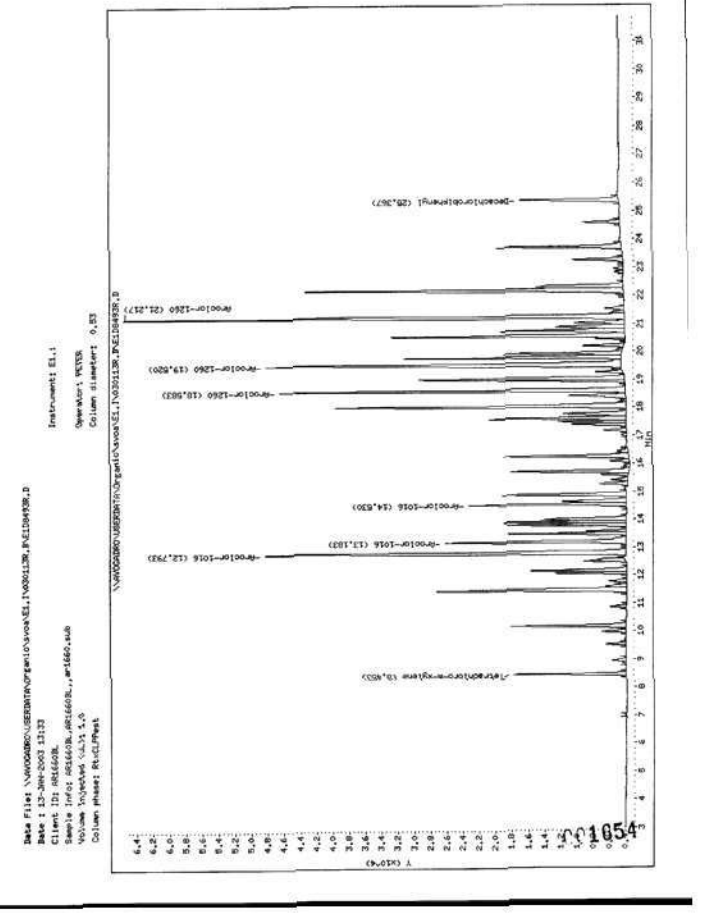
BMF
01/07/03

Data File: E1D8438F.D
Report Date: 07-Jan-2003 10:51

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).





Data File: E1D8493F.D
Report Date: 14-Jan-2003 17:09

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113F.B\E1D8493F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113R.B\E1D8493R.D
Inj Date : 13-JAN-2003 13:33
Sample Info: AR1660BL,AR1660BL,,ar1660.sub
Misc Info : 2,,,1,,
Cal Date : 13-JAN-2003 16:51
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113R.B\E1_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

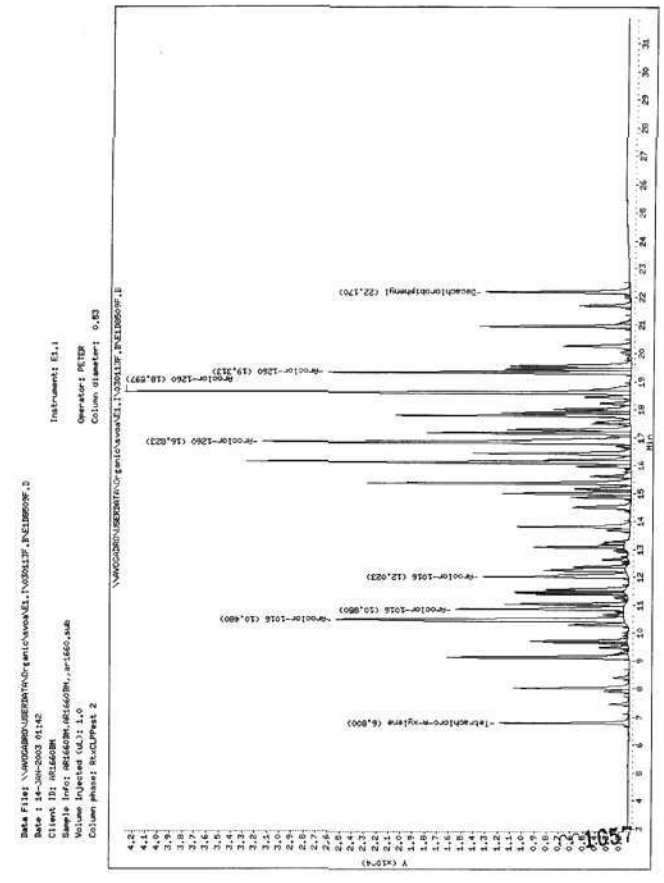
Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.797	8.453	10809	13774	0.021	0.019		100.00(a)
Aroclor-1016	12.020	12.793	12126	44416	1.0	0.94	80.00- 120.00	100.00
	10.477	13.183	24244	33317	1.0	0.92	187.36- 227.36	199.93
	10.850	14.530	14483	19359	1.0	0.93	102.67- 142.67	119.44
			Average of Peak Amounts =		1.0	0.93		
Decachlorobiphenyl	22.170	25.367	11687	12198	0.020	0.017		100.00(a)
Aroclor-1260	16.823	18.583	30850	42577	1.0	0.94	80.00- 120.00	100.00
	18.593	19.520	41453	43639	1.0	0.94	115.98- 155.98	134.37
	19.310	21.217	24685	41526	1.1	0.95	61.17- 101.17	80.02
			Average of Peak Amounts =		1.0	0.94		

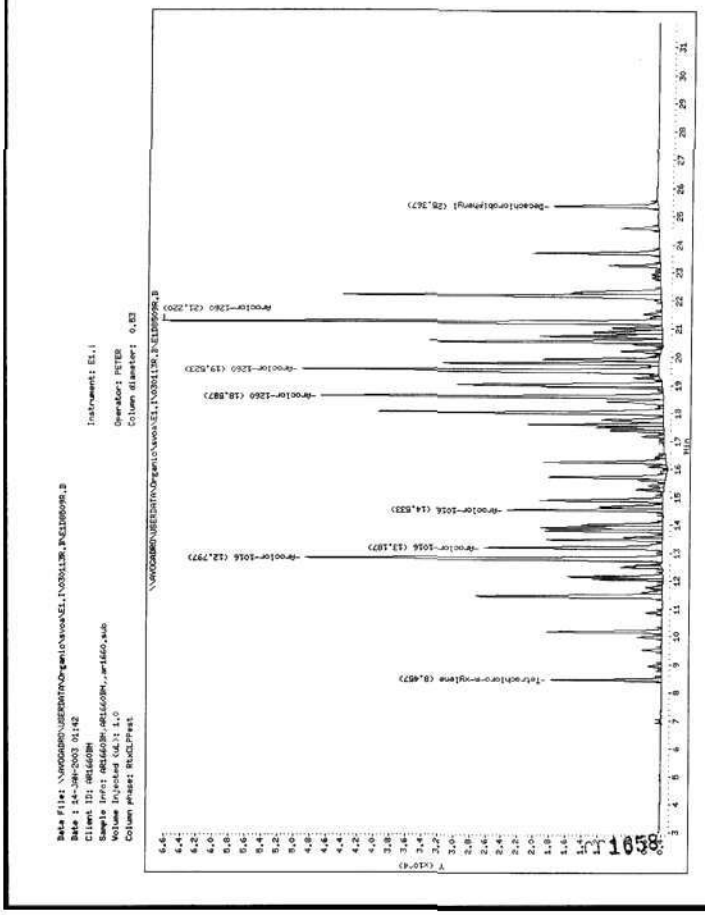
1/14/03

Data File: E1D8493F.D
Report Date: 14-Jan-2003 17:09

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).





Data File: E1D8509F.D
Report Date: 14-Jan-2003 17:09

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113F.B\E1D8509F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113R.B\E1D8509R.D
Inj Date : 14-JAN-2003 01:42
Sample Info: AR1660BM,AR1660BM,,ar1660.sub
Misc Info : 2,,,1,,
Cal Date : 14-JAN-2003 09:18
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113R.B\E1_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.800	8.457	10600	13709	0.021	0.016		100.00(a)
Aroclor-1016	12.023	12.797	11837	44493	0.99	0.95	80.00- 120.00	100.00(a)
	10.480	13.187	23693	32257	0.98	0.92	187.36- 227.36	300.15(a)
	10.850	14.533	13731	19405	0.97	0.94	102.67- 142.67	119.00(a)
			Average of Peak Amounts =		0.98	0.94		
Decachlorobiphenyl	22.170	25.367	11842	12939	0.020	0.018		100.00(a)
Aroclor-1260	16.823	19.587	30286	42681	1.0	0.96	80.00- 120.00	100.00
	18.597	19.523	41515	44420	1.0	0.96	116.98- 155.98	137.08
	19.313	21.220	24837	62173	1.1	0.96	61.17- 101.17	82.01
			Average of Peak Amounts =		1.0	0.95		

1/14/03

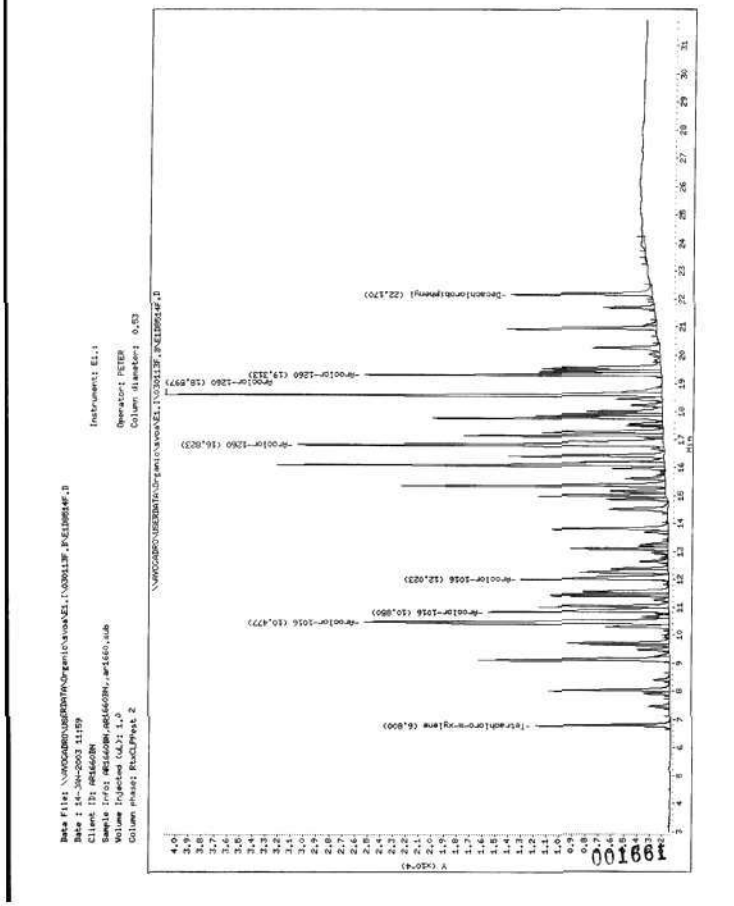
001659

Data File: E1D8509F.D
Report Date: 14-Jan-2003 17:09

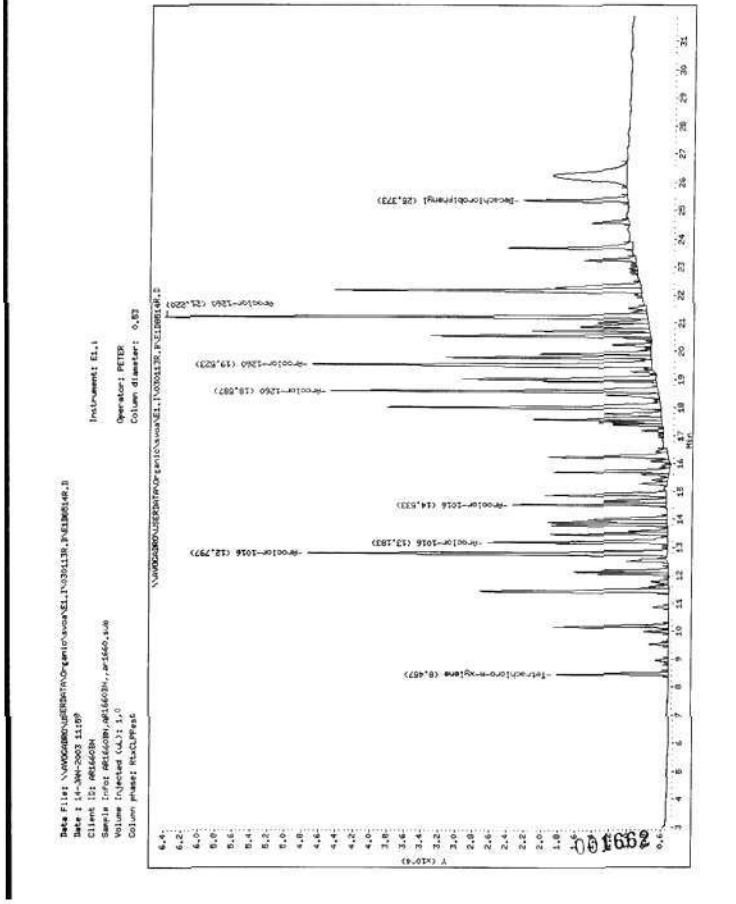
QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

1660



001661



001662

Data File: E1D8514F.D
Report Date: 14-Jan-2003 17:10

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113F.B\E1D8514F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113R.B\E1D8514R.D
Inj Date : 14-JAN-2003 11:59
Sample Info: AR1660BN,AR1660BN,,ar1660.sub
Misc Info : 2,,,1,,
Cal Date : 14-JAN-2003 15:26
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113R.B\E1_PCB_R.m
Sub List #1 : ar1660.sub
Sub List #2 : ar1660.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.800	8.457	10454	12975	0.021	0.017		100.00(a)
Aroclor-1016	12.023	12.797	11480	41977	0.96	0.69	80.00- 120.00	100.00(a)
	10.477	13.183	23605	20899	0.99	0.86	187.36- 227.36	207.36(a)
	10.850	14.533	14082	17787	0.99	0.86	102.67- 142.67	122.67(a)
			Average of Peak Amounts =		0.98	0.87		
Decachlorobiphenyl	22.176	25.373	10978	12025	0.019	0.017		100.00(a)
Aroclor-1260	16.823	18.587	28547	39123	0.97	0.84	80.00- 120.00	100.00(a)
	18.597	19.523	38819	39546	0.96	0.86	115.98- 155.98	135.98(a)
	19.313	21.220	23173	56164	1.0	0.87	61.17- 101.17	81.17(a)
			Average of Peak Amounts =		0.98	0.86		

1/14/03

Data File: E1D8514F.D
Report Date: 14-Jan-2003 17:10

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
BBLK1D

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: MB-4911

Sample wt/vol: 1000 (g/ml) ML Lab File ID: E1D8376F

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:12/24/02

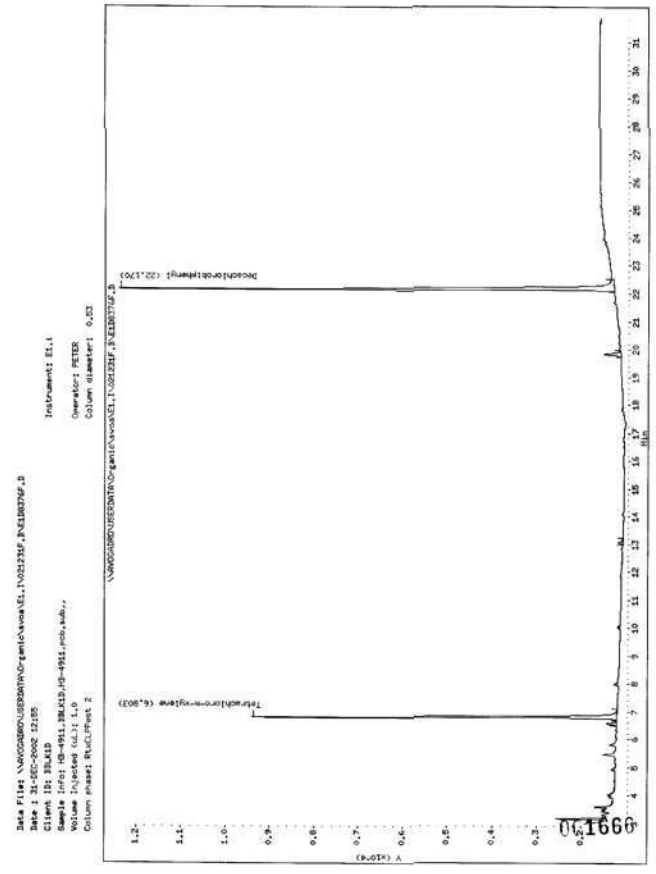
Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/31/02

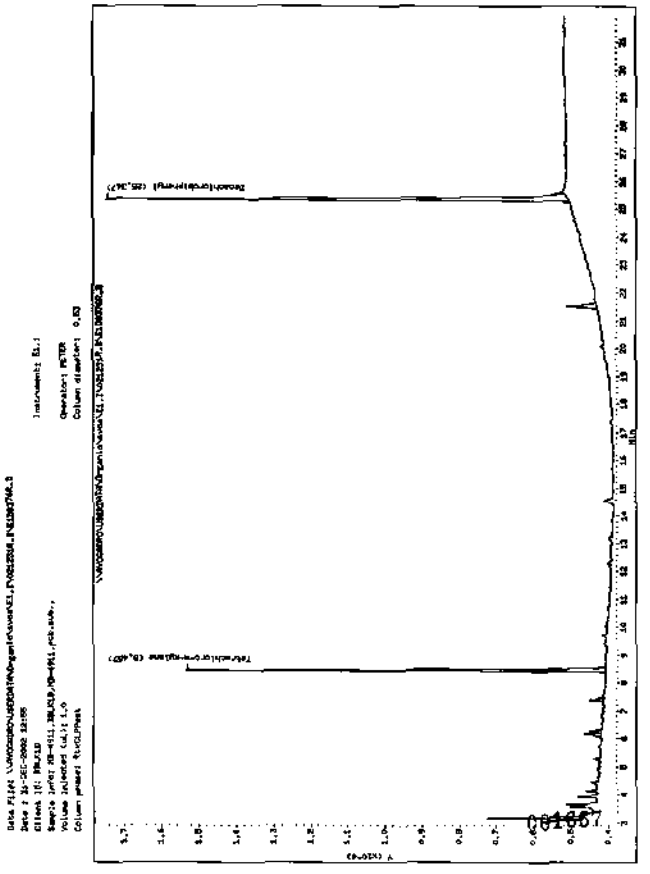
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB





001667

Data File: E1D8376F.D
Report Date: 07-Jan-2003 11:08

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021231F.B\E1D8376F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021231R.B\E1D8376R.D
Inj Date : 31-DEC-2002 12:55
Sample Info: MB-4911,SBLK1D,MB-4911,pcb.sub,,
Misc Info : 3,,BLANK,,,,,,,,,24-DEC-02,,A1905
Cal Date : 02-JAN-2003 10:19
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021231F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021231R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	%Diff	Diff#2 Range	Ratio
Tetrachloro-m-xylene	6.803	6.497	8193	15764	0.16	0.25			100.00
Decachlorobiphenyl	23.170	25.387	11091	16408	0.18	0.27			100.00

Bmf
01/07/03

001668

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

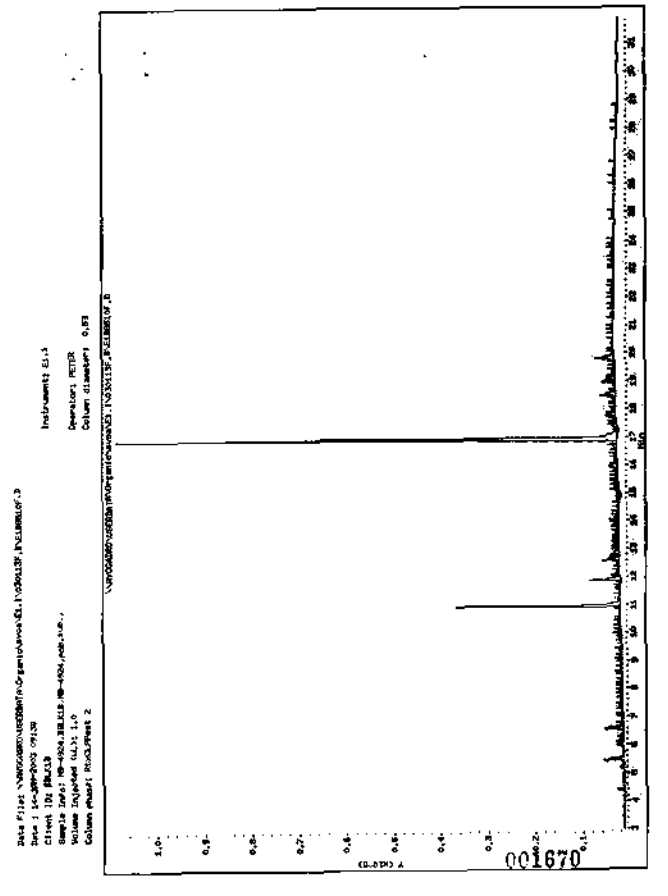
CLIENT SAMPLE NO.
SBLK1F

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: MB-4924
Sample wt/vol: 500.0 (g/ml) ML Lab File ID: E1D8510F
% Moisture: ____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/26/02
Concentrated Extract Volume: 500(uL) Date Analyzed: 01/14/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

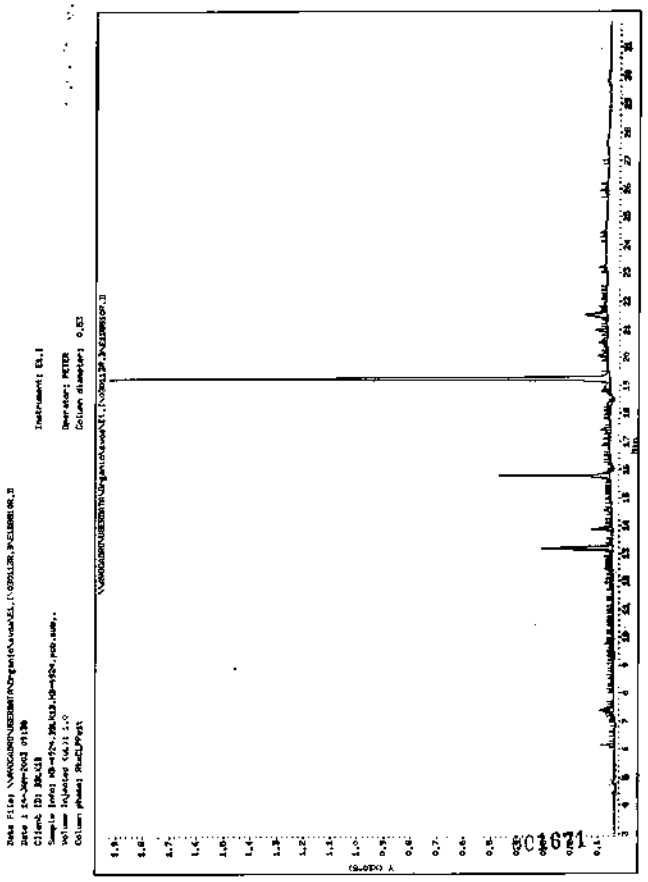
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.10	U
11104-28-2	Aroclor-1221	0.10	U
11141-16-5	Aroclor-1232	0.10	U
53469-21-9	Aroclor-1242	0.10	U
12672-29-6	Aroclor-1248	0.10	U
11097-69-1	Aroclor-1254	0.10	U
11096-82-5	Aroclor-1260	0.10	U

FORM 1 PCB

001669



001670



001671

Data File: E1D8510F.D
Report Date: 14-Jan-2003 17:09

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113F.B\E1D8510F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113R.B\E1D8510R.D
Inj Date : 14-JAN-2003 09:38
Sample Info: MB-4924,BBLK1B,MB-4924,pcb.sub,,
Misc Info : 3,,BLANK,1,,,,,,,26-DEC-02,,A1905
Cal Date : 14-JAN-2003 15:26
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	500.000	Volume of final extract (uL)
Vo	500.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio

001672

FORM I
PCB ORGANICS ANALYSIS DATA SHEET

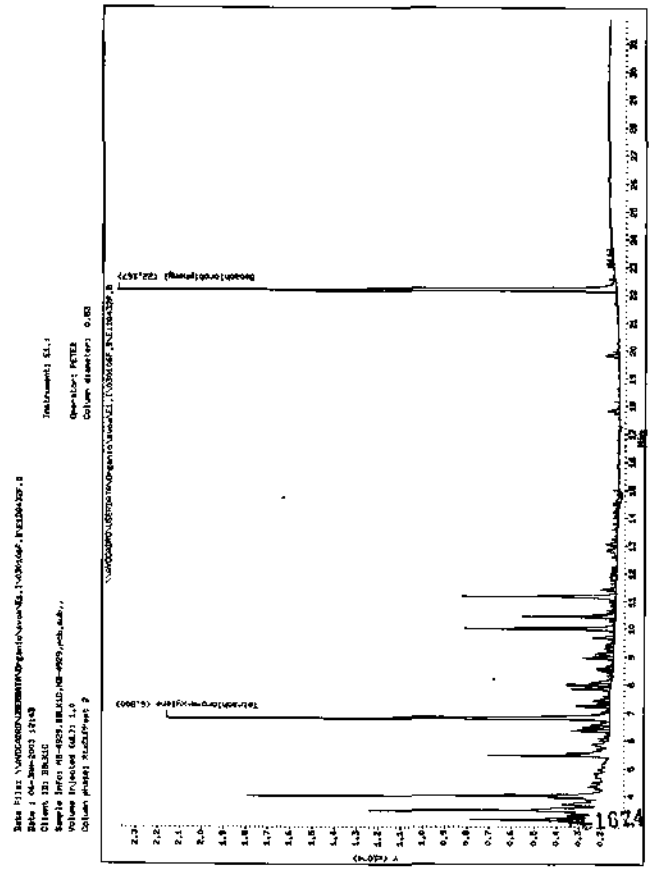
CLIENT SAMPLE NO.
BBLK1C

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) SOIL Lab Sample ID: MB-4929
Sample wt/vol: 30.0 (g/mL) G Lab File ID: E1D8432F
% Moisture: 0 decanted: (Y/N) N Date Received: _____
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/27/02
Concentrated Extract Volume: 5000(uL) Date Analyzed: 01/06/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

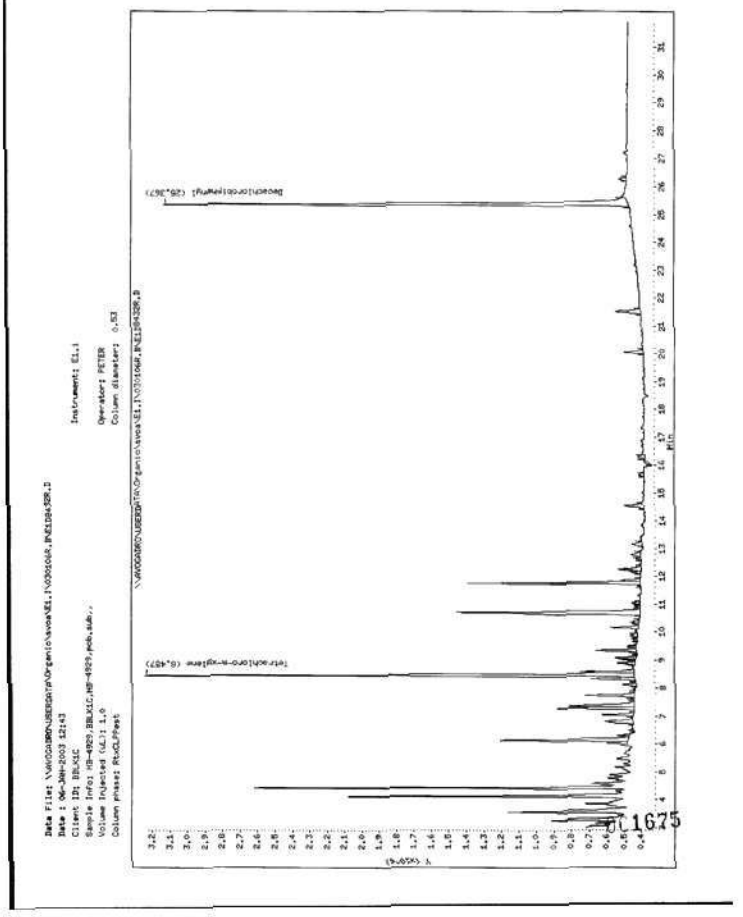
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

FORM I PCB

001673



001674



00 1675

Data File: E1D8432F.D
Report Date: 07-Jan-2003 11:09

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030106F.B\E1D8432F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030106R.B\E1D8432R.D
Inj Date : 06-JAN-2003 12:43
Sample Info: MB-4929,BBLK1C,MB-4929,pcb.sub,,
Misc Info : 3,,BLANK,1,,,,,,,27-DEC-02,,A1905
Cal Date : 06-JAN-2003 16:02
Operator : PETER
Inst ID : E1.I
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030106F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030106R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	2.000 ✓	Correction factor
Vt	5000.000 ✓	Volume of final extract (uL) (1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000 ✓	Weight of sample extracted (g)
M	0.000 ✓	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Tetrachloro-m-xylene	6.800	8.457	20002	28006	13	12		100.00
Decachlorobiphenyl	22.167	25.367	22513	26604	13	12		100.00

BMF
01/07/03

00 1676

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
BBLK1B

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: MB-4933

Sample wt/vol: 1000 (g/ml) ML Lab File ID: E1D8345F

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:12/28/02

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/30/02

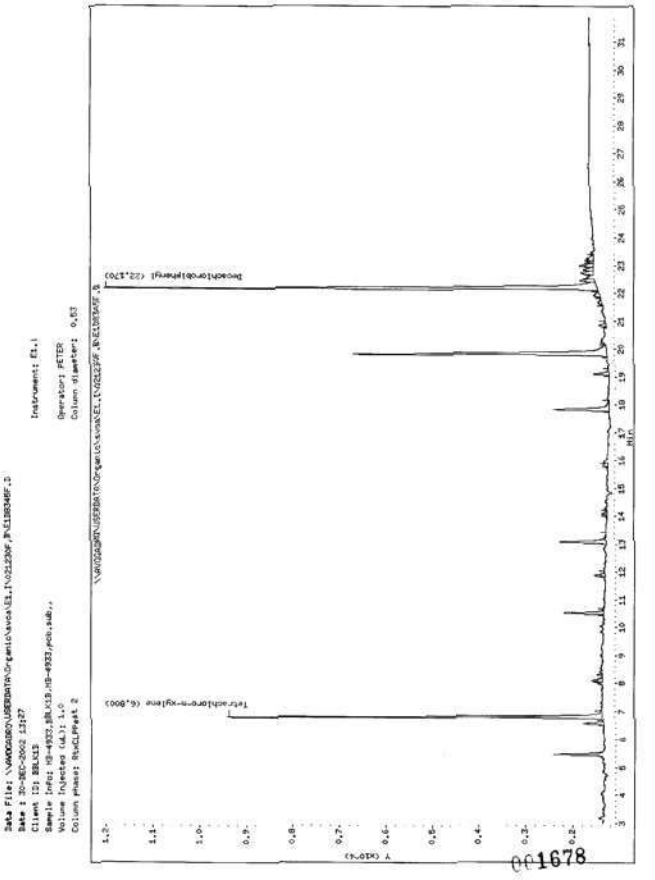
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

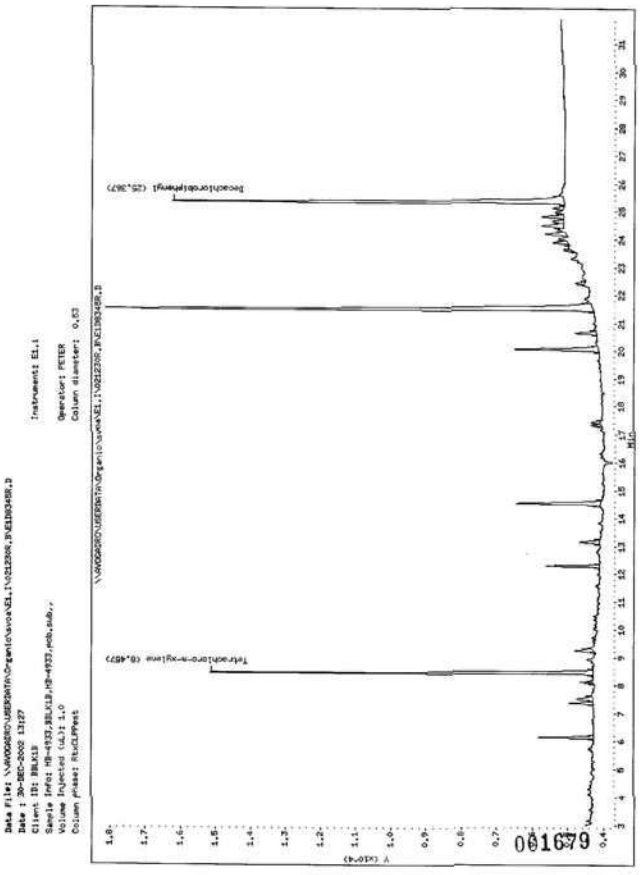
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PCB

00 1677



00 1678



Data File: E1D8345F.D
Report Date: 07-Jan-2003 11:03

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1D8345F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1D8345R.D
Inj Date : 30-DEC-2002 13:27
Sample Info: MB-4933(BBLK1B)MB-4933,pcb.sub,,
Misc Info : 3,,BLANK,2,,,,,,,28-DEC-02,,A1905
Cal Date : 31-DEC-2002 09:28
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.800	8.437	8042	10863	0.16	0.15		100.00
Decachlorobiphenyl	22.170	25.367	10563	11110	0.18	0.16		100.00

BMF
01/07/03

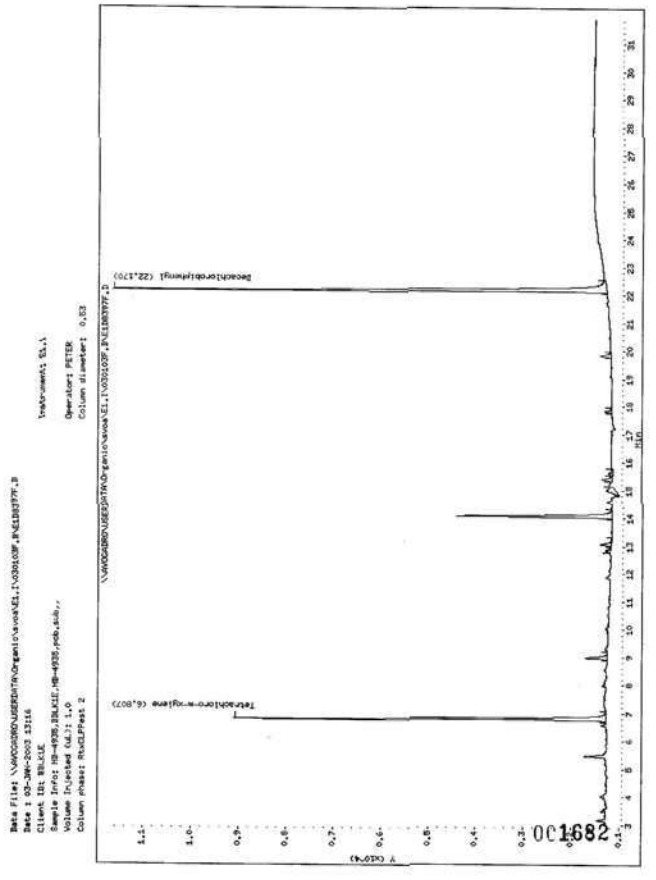
FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

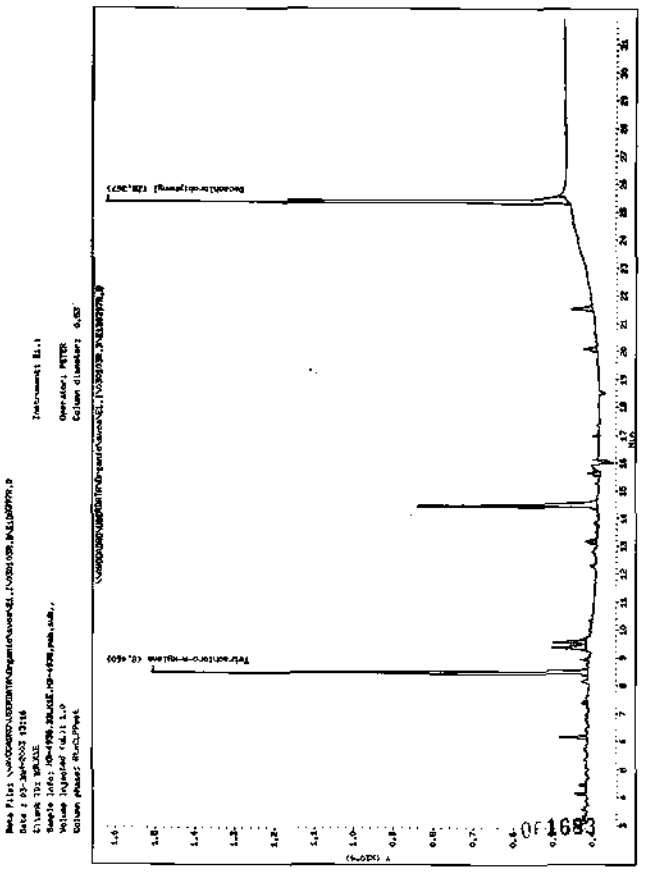
CLIENT SAMPLE NO.
BBLK1E

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: MB-4935
Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E1D8397F
% Moisture: _____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 01/02/03
Concentrated Extract Volume: 10000(uL) Date Analyzed: 01/03/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	3.3	U
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	3.3	U

FORM I PCB





001683

Data File: E1D8397F.D
Report Date: 07-Jan-2003 12:05

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103F.B\E1D8397F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103R.B\E1D8397R.D
Inj Date : 03-JAN-2003 13:16
Sample Info: MB-4935,BBLK1E,MB-4935,pcb.sub,,
Misc Info : 3,,BLANK,1,,,,,,,02-JAN-03,,A1905
Cal Date : 06-JAN-2003 09:25
Operator : PETER
Inst ID : E1.I
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	300.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	8.807	8.860	1955	10959	0.32	0.49		100.00
Decachlorobiphenyl	22.178	25.367	10370	11540	0.38	0.58		100.00

BMF
01/07/03

001684

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

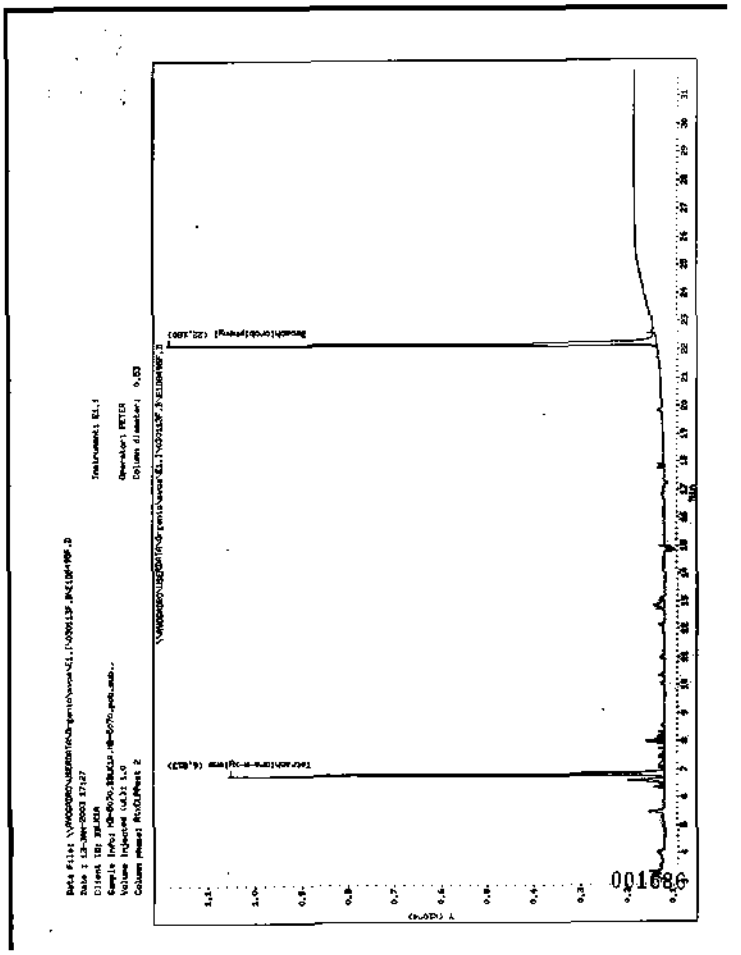
CLIENT SAMPLE NO.
BBLK1A

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: MB-5070
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E1D8495F
% Moisture: _____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 01/13/03
Concentrated Extract Volume: 2500(uL) Date Analyzed: 01/13/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

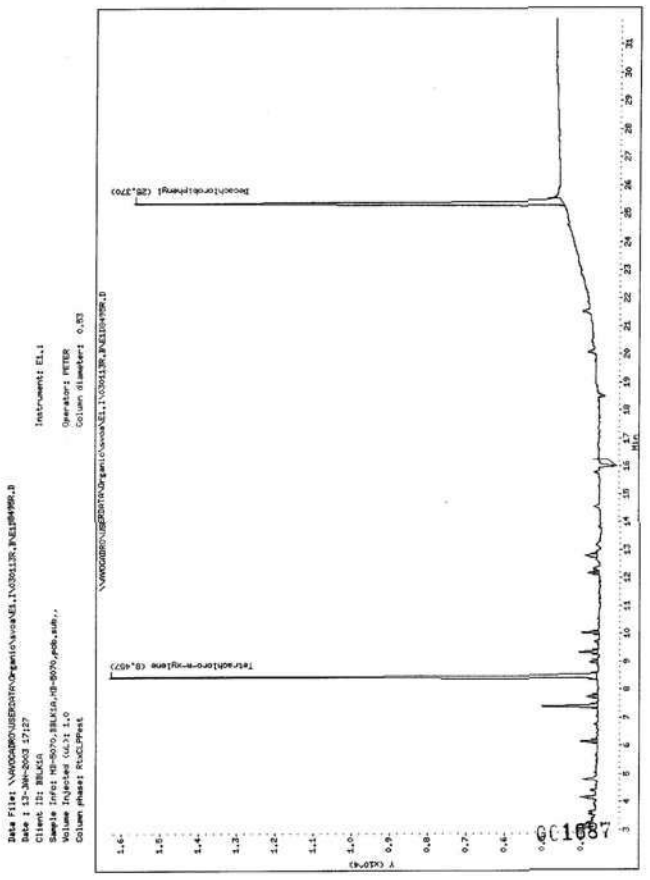
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	0.25	U
11104-28-2	Aroclor-1221	0.25	U
11141-16-5	Aroclor-1232	0.25	U
53469-21-9	Aroclor-1242	0.25	U
12672-29-6	Aroclor-1248	0.25	U
11097-69-1	Aroclor-1254	0.25	U
11096-82-5	Aroclor-1260	0.25	U

FORM I PCB

001685



001686



001687

Data File: E1D8495F.D
Report Date: 14-Jan-2003 17:09

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113F.B\E1D8495F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113R.B\E1D8495R.D
Inj Date : 13-JAN-2003 17:27
Sample Info: MB-5070,BBLK1A,MB-5070,pcb.sub,,
Misc Info : 3,,BLANK,1,,,,,,,13-JAN-03,,B0033
Cal Date : 14-JAN-2003 15:26
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	2500.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.813	8.457	9342	12703	0.046	0.043		100.00
Decachlorobiphenyl	23.180	28.370	10499	11147	0.045	0.039		100.00

1/14/03

001688

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

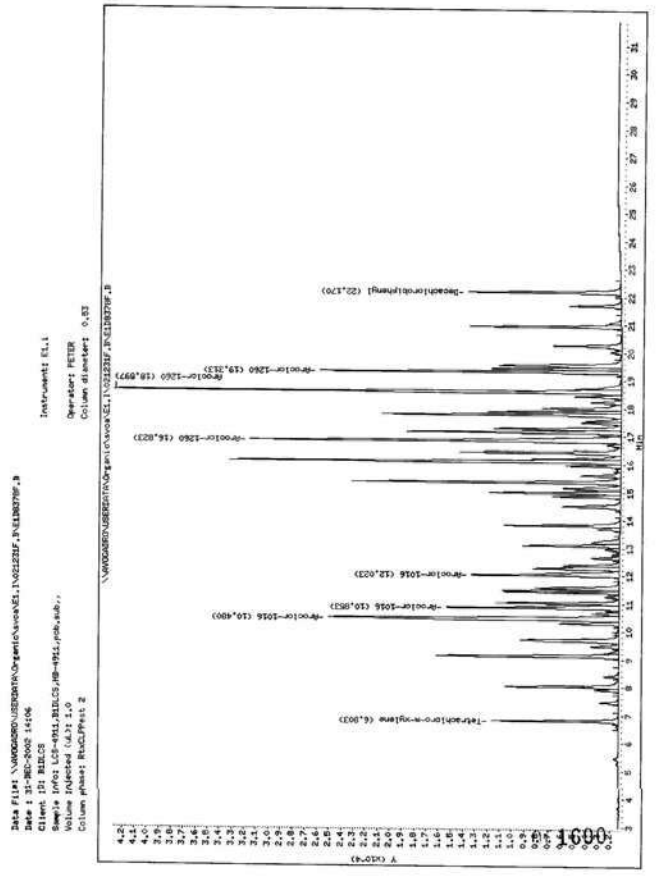
CLIENT SAMPLE NO.
B1DLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: LCS-4911
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E1D8378F
% Moisture: _____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:12/24/02
Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/31/02
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

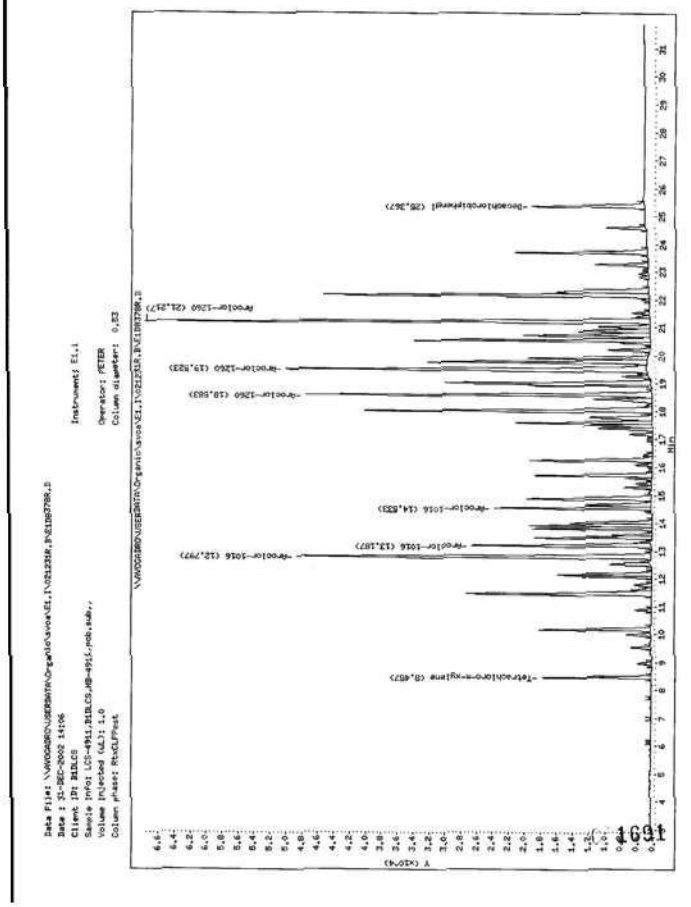
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	9.4	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	9.7	

FORM I PCB

001689



001690



Data File: E1D8378F.D
Report Date: 07-Jan-2003 11:08

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021231F.B\E1D8378F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021231R.B\E1D8378R.D
Inj Date : 31-DEC-2002 14:06
Sample Info: LCS-4911,B1DLCS,MB-4911,pcb.sub,,
Misc Info : 3,,LCS,1,,,,,,,24-DEC-02,,A1905
Cal Date : 02-JAN-2003 10:19
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021231F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021231R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	8.465	8.457	10541	13611	0.30	0.34		100.00
Decachlorobiphenyl	22.170	25.367	12425	17969	0.21	0.20		100.00
Aroclor 1016	12.023	12.797	32066	44412	10	9.4	80.00- 120.00	100.00
	10.460	13.187	23758	32375	9.8	9.2	179.62- 219.62	196.90
	10.853	14.533	14129	19503	9.9	9.8	98.06- 138.06	117.10
			Average of Peak Amount# =		9.9	9.3		
Aroclor 1260	16.823	18.583	30433	43394	10	9.6	80.00- 120.00	100.00
	18.597	19.523	41562	49147	10	9.8	116.47 156.47	136.57
	19.313	21.217	24663	63277	11	9.8	60.60 100.60	81.04
			Average of Peak Amount# =		10	9.7		

BMF
01/07/03

001692

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
B1DLCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: LCSD-4911

Sample wt/vol: 1000 (g/ml) ML Lab File ID: E1D8379F

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:12/24/02

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/31/02

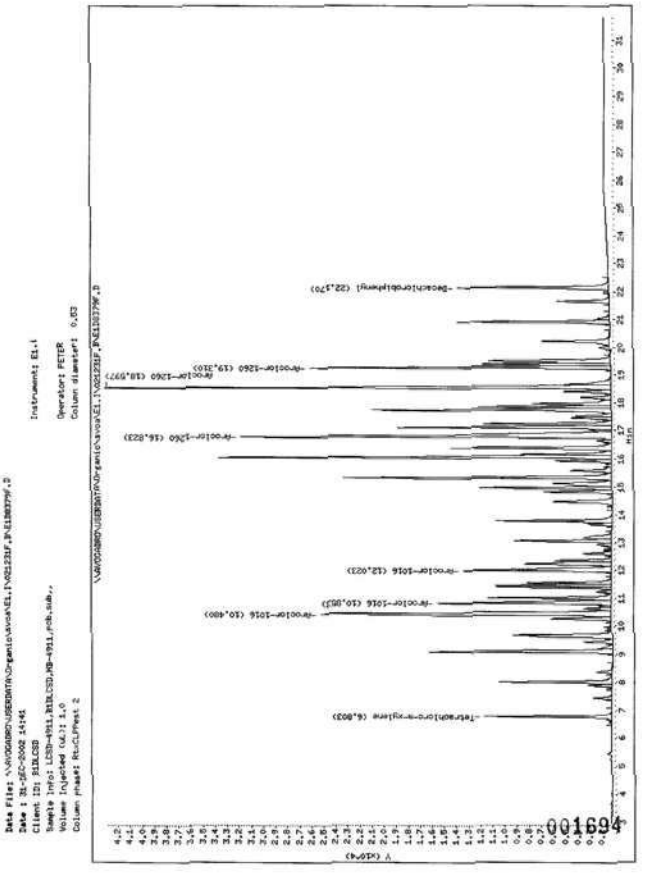
Injection Volume: 1.0(uL) Dilution Factor: 1.0

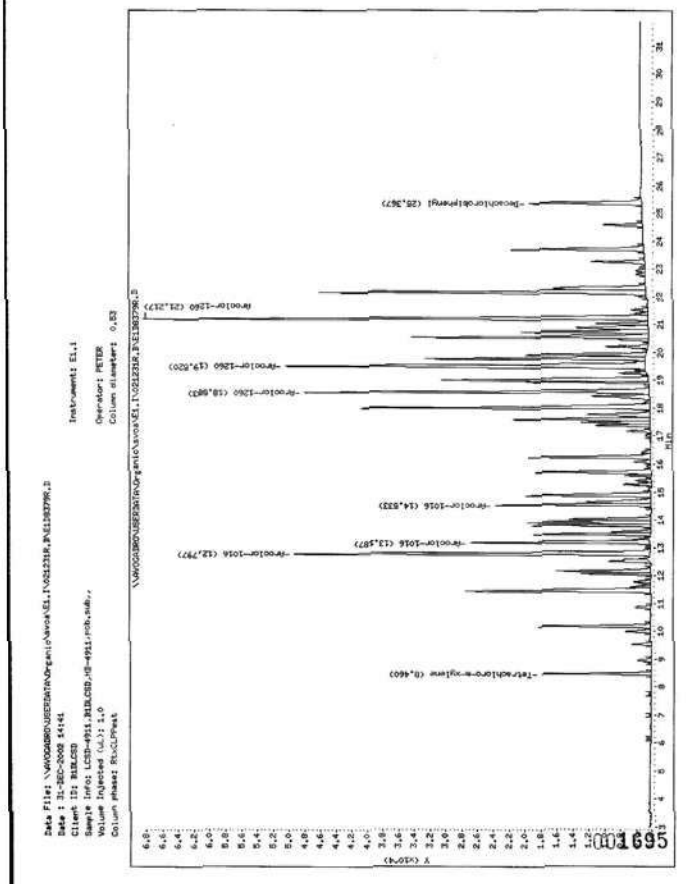
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	9.4	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	9.8	

FORM I PCB

001693





Data File: E1D8379F.D
Report Date: 07-Jan-2003 11:08

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021231F.B\E1D8379F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021231R.B\E1D8379R.D
Inj Date : 31-DEC-2002 14:41
Sample Info: LCSD-4911,B1DLCSD,MB-4911,pcb.sub,,
Misc Info : 3,,LCSD,1,,,,,,,,24-DEC-02,,A1905
Cal Date : 02-JAN-2003 10:19
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021231F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021231R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.803	8.469	10457	13753	0.21	0.18		100.00
Decachlorobiphenyl	22.170	25.367	12466	14039	0.21	0.20		100.00
Aroclor-1016	12.023	12.799	12192	44994	10	9.6	80.00- 120.00	100.00
	10.480	13.187	23969	22537	9.9	9.3	179.62- 219.62	196.60
	10.853	14.533	14279	19525	10	9.4	98.06- 138.06	117.12
		Average of Peak Amounts =			10	9.4		
Aroclor-1260	16.823	18.583	30627	43646	10	9.6	80.00- 120.00	100.00
	18.597	19.520	41841	45583	10	9.8	116.47- 156.47	136.61
	19.310	21.217	24883	43939	11	9.9	60.60- 100.60	81.35
		Average of Peak Amounts =			10	9.8		

BMF
01/07/03

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
B1CLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: LCS-4930

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E1D8348F

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 12/27/02

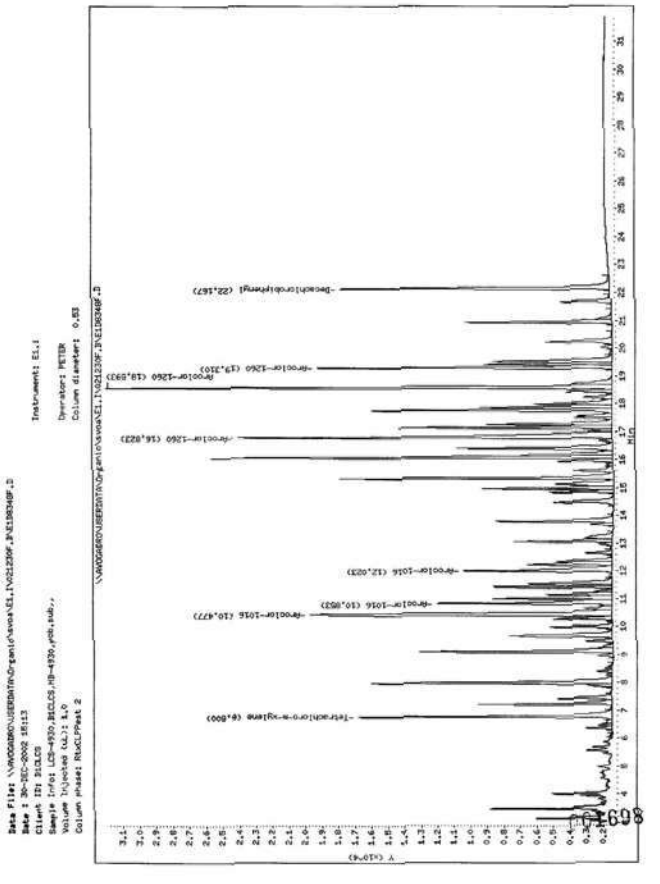
Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/30/02

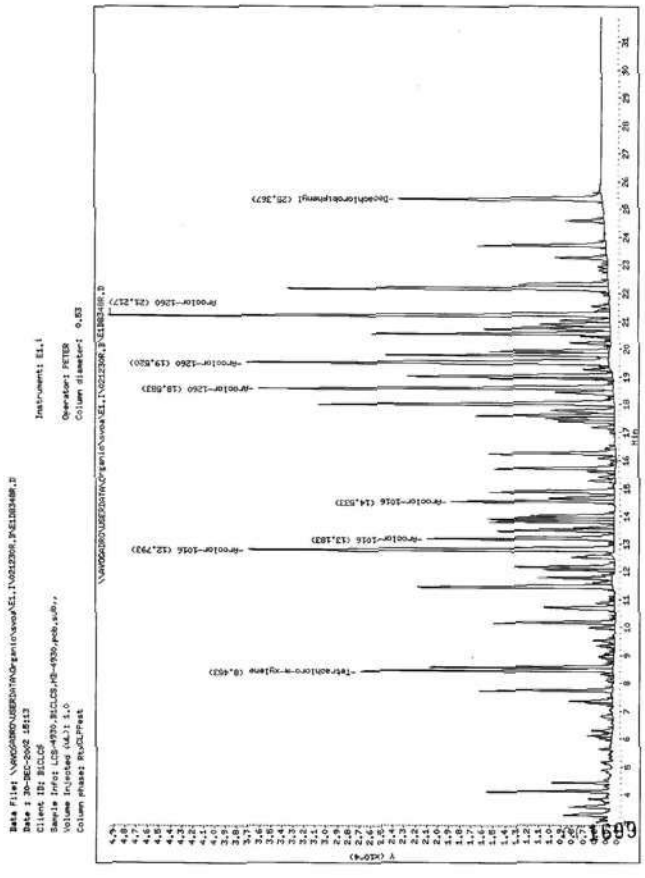
Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	230	
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	230	

FORM I PCB





1699

Data File: E1D8348F.D
Report Date: 07-Jan-2003 11:04

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1D8348F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1D8348R.D
Inj Date : 30-DEC-2002 15:13
Sample Info: LCS-4930,B1CLCS,MB-4930,pcb.sub,,
Misc Info : 3,,LCS,2,,,,,,,27-DEC-02,,A1905
Cal Date : 31-DEC-2002 09:28
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Tetrachloro-m-xylene	6.800	8.453	15316	22494	10	10		100.00
Decachlorobiphenyl	22.167	25.367	16250	18024	9.3	8.4		100.00
Aroclor-1016	12.023	12.793	8969	32656	260	230	80.00- 120.00	100.00
	10.477	13.183	18293	36647	250	230	180.45- 220.45	203.96
	10.853	14.533	19562	34452	250	230	98.51- 138.51	117.76
			Average of Peak Amounts =		250	230		
Aroclor-1260	16.823	18.583	32619	31716	260	230	80.00- 120.00	100.00
	18.593	19.520	30587	32335	250	230	116.72- 156.72	135.23
	19.310	21.217	17851	44771	260	230	60.94- 100.94	78.92
			Average of Peak Amounts =		260	230		

BMF
01/07/03

001700

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
B1CLCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) SOIL Lab Sample ID: LCSD-4930

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E1D8349F

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:12/27/02

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/30/02

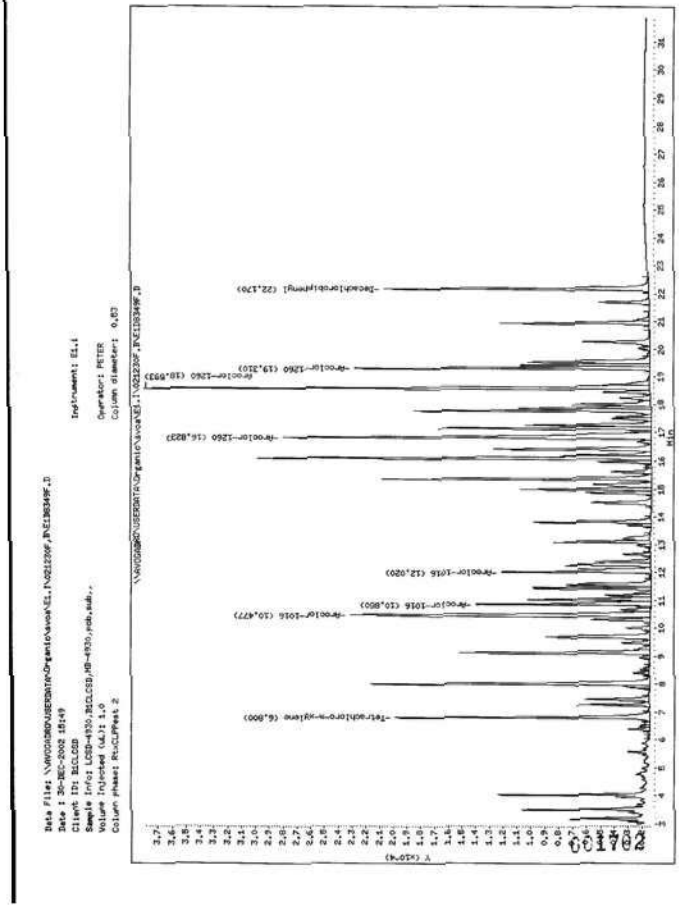
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

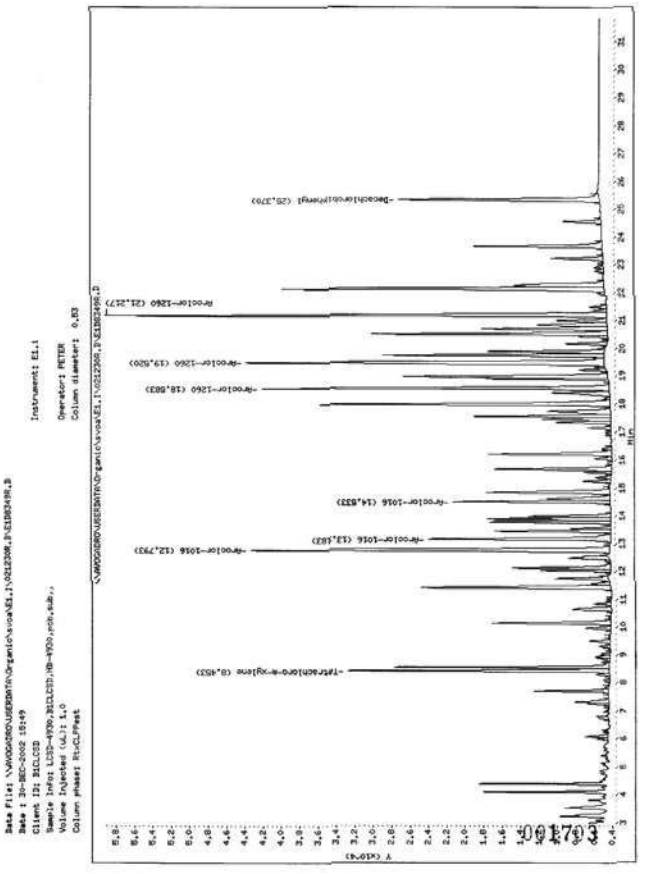
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	270	
11104-28-2	Aroclor-1221	33	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	280	

FORM I PCB

001701



001702



Data File: E1D8349F.D
Report Date: 07-Jan-2003 11:04

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1D8349F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1D8349R.D
Inj Date : 30-DEC-2002 15:49
Sample Info: LCSD-4930,B1CLCSD,MB-4930,pcb.sub,,
Misc Info : 3,,LCSD,2,,,,,,,27-DEC-02,,A1905
Cal Date : 31-DEC-2002 09:28
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)(1000 low, 2
Vi	1.000	Volume injected (uL)
Ws	30.000	Weight of sample extracted (g)
M	0.000	% Moisture

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/Kg)	Conc#2 (ug/Kg)	Target Range	Ratio
Tetrachloro-m-xylene	6.860	8.453	18376	28360	12	13		100.00
Decachlorobiphenyl	22.170	25.370	19113	21720	11	10		100.00
Aroclor-1016	12.020	12.793	10710	39023	300	280	80.00- 120.00	100.00
	10.477	13.183	21743	19660	300	270	180.45- 220.45	203.02
	10.850	14.533	12576	16913	300	270	98.51- 138.51	117.42
			Average of Peak Amounts =		300	270		
Aroclor-1260	16.823	18.583	26652	37722	300	280	80.00- 120.00	100.00
	18.593	19.520	36551	39857	300	280	116.72- 156.72	137.14
	19.310	21.217	21359	54573	310	280	60.94- 100.94	80.14
			Average of Peak Amounts =		300	280		

BMF
01/07/03

001704

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
B1BLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: LCS-4933

Sample wt/vol: 1000 (g/ml) ML Lab File ID: E1D8346F

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:12/28/02

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/30/02

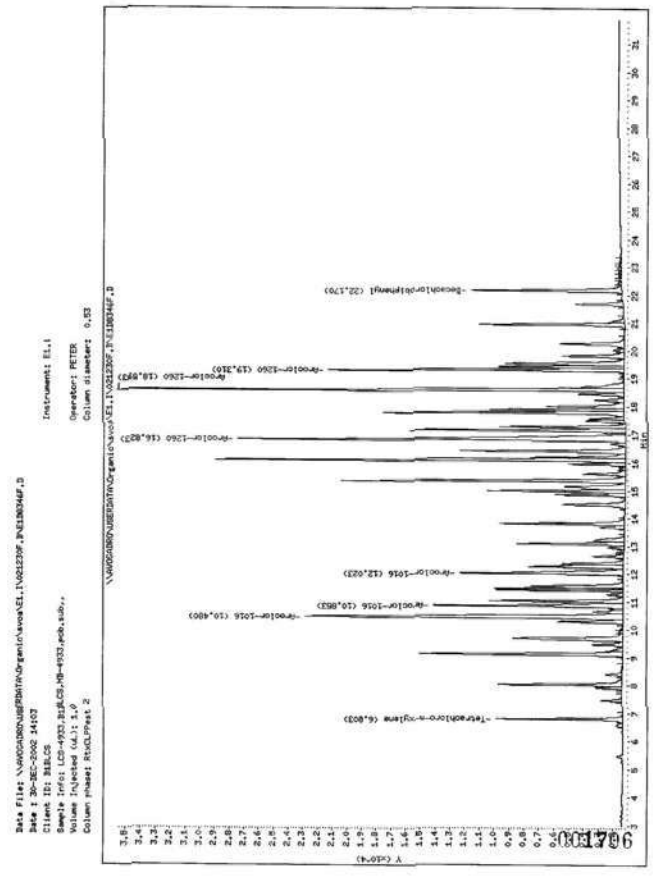
Injection Volume: 1.0(uL) Dilution Factor: 1.0

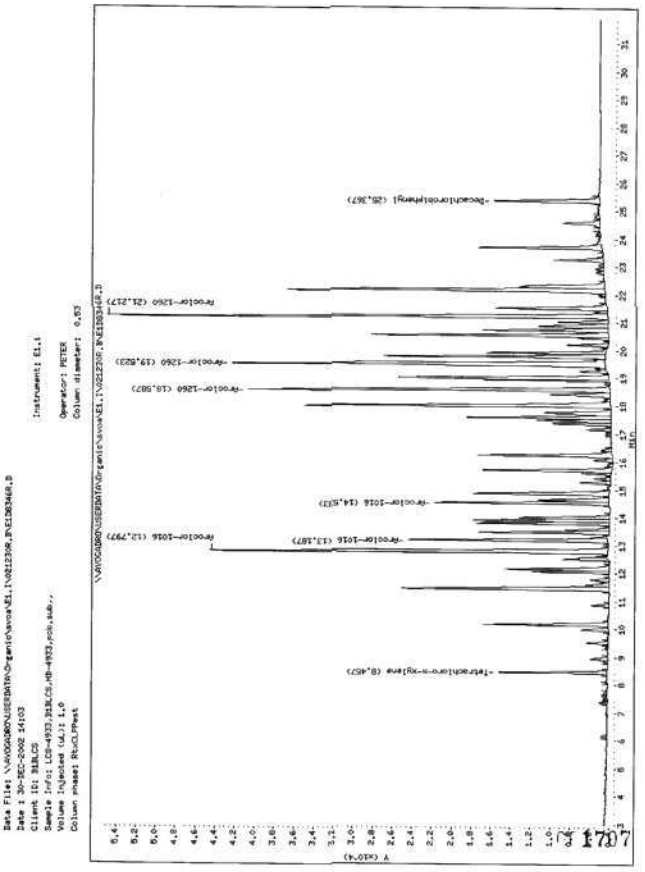
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	8.5	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	8.0	

FORM I PCB

001705





1707

Data File: E1D8346F.D
Report Date: 07-Jan-2003 11:04

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1D8346F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1D8346R.D
Inj Date : 30-DEC-2002 14:03
Sample Info: LCS-4933,B1BLCS,MB-4933,pcb.sub,,
Misc Info : 3,,LCS,2,,,,,,,28-DEC-02,,A1905
Cal Date : 31-DEC-2002 09:28
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.803	8.457	8544	10977	0.17	0.15		100.00
Decachlorobiphenyl	22.170	25.367	10135	10655	0.17	0.15		100.00
Aroclor-1016	12.023	12.797	11010	40358	9.2	8.6	80.00- 120.00	100.00
	10.480	13.187	23456	20216	8.9	8.4	180.45- 220.45	194.88
	10.853	14.533	12795	17579	9.0	8.5	98.51- 138.51	116.21
			Average of Peak Amounts =		9.0	8.5		
Aroclor-1260	16.823	18.587	26247	36667	8.9	8.1	80.00- 120.00	100.00
	18.593	19.523	34285	37727	8.5	8.2	116.72- 156.72	130.62
	19.310	21.217	19989	50663	8.6	7.8	60.94- 100.94	76.16
			Average of Peak Amounts =		8.7	8.0		

BMF
01/07/03

001708

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
B1BLCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: LCSD-4933

Sample wt/vol: 1000 (g/ml) ML Lab File ID: E1D8347F

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:12/28/02

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/30/02

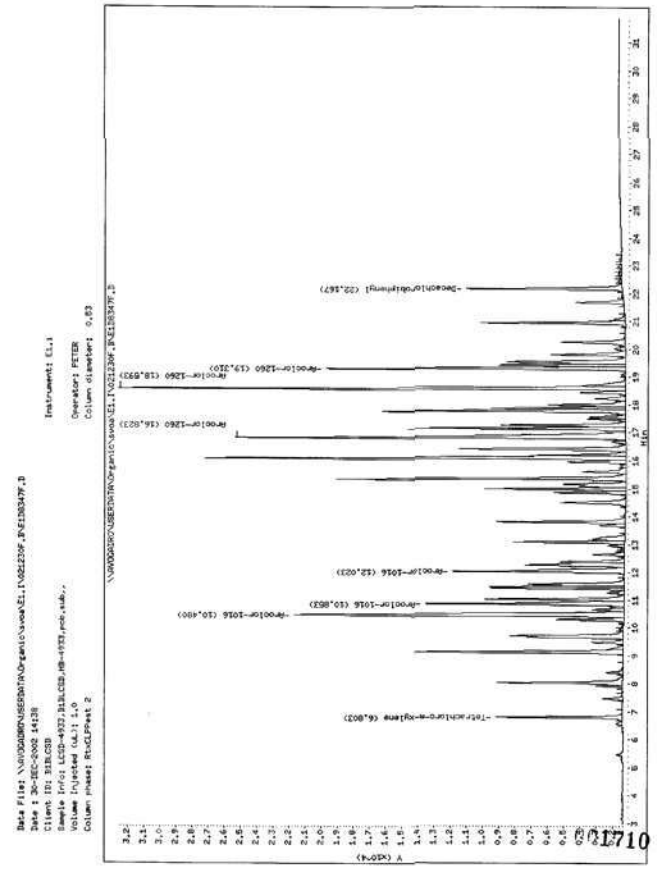
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

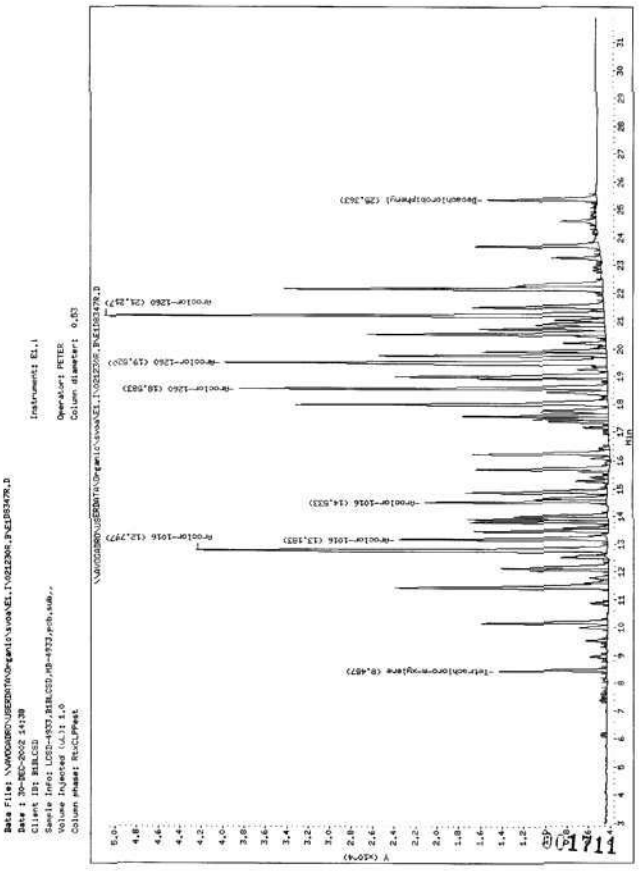
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	8.0	
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	7.4	

FORM I PCB

001709



001710



001711

Data File: E1D8347F.D
Report Date: 07-Jan-2003 11:04

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1D8347F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1D8347R.D
Inj Date : 30-DEC-2002 14:38
Sample Info: LCSD-4933,B1BLCSD,MB-4933,pcb.sub,,
Misc Info : 3,,LCSD,2,,,,,,,28-DEC-02,,A1905
Cal Date : 31-DEC-2002 09:28
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\021230R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.995	6.457	7726	9972	9.55	9.13		100.00
Decachlorobiphenyl	22.167	25.363	9543	10063	0.16	0.14		100.00
Aroclor 1016	12.023	12.797	10482	38150	8.8	8.1	80.00- 120.00	100.00
	10.480	13.183	20317	19219	8.4	7.9	180.45- 220.45	193.83
	10.863	14.533	12146	16754	8.6	8.1	98.51- 138.51	115.87
			Average of Peak Amounts =		8.6	8.0		
Aroclor-1260	16.833	18.583	24105	34178	8.2	7.5	80.00- 120.00	100.00
	18.582	19.320	31279	35424	7.8	7.4	116.72- 156.72	129.76
	19.310	21.217	18459	46422	8.0	7.2	60.94- 100.94	76.58
			Average of Peak Amounts =		8.0	7.4		

BMF
01/07/03

001712

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
B1ELCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: LCS-4935

Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E1D8398F

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 01/02/03

Concentrated Extract Volume: 10000(uL) Date Analyzed: 01/03/03

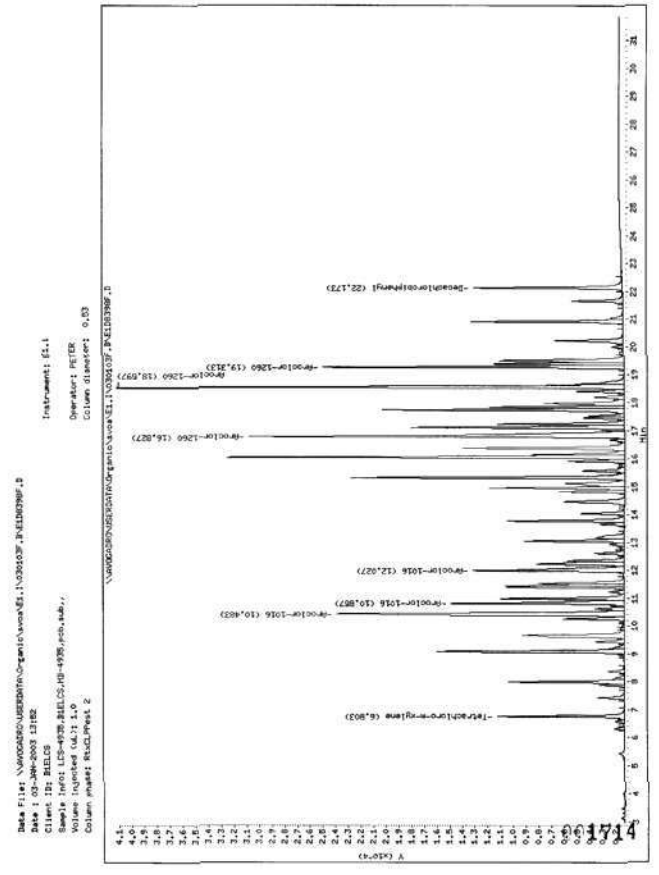
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

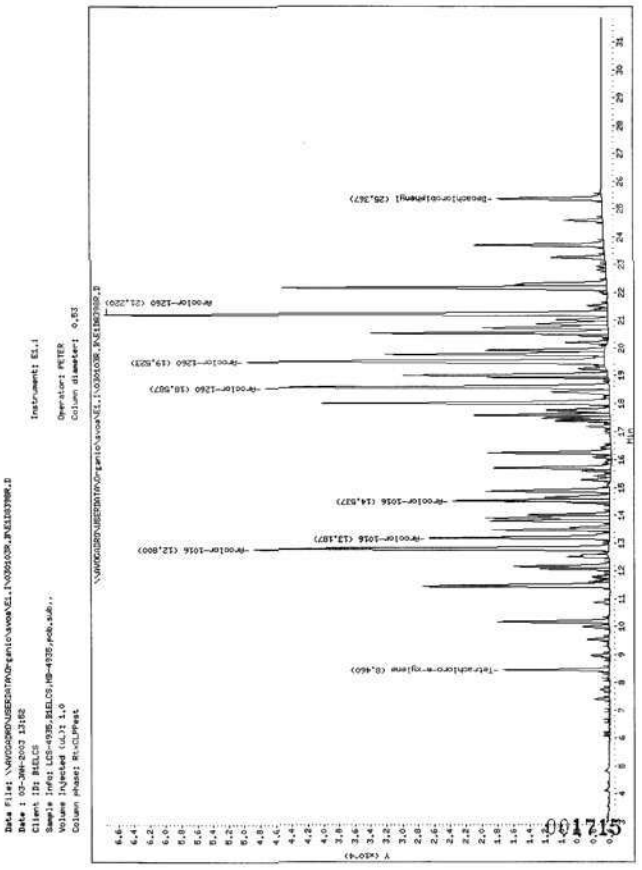
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	31	
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	32	

FORM I PCB

001713



001714



001715

Data File: E1D8398F.D
Report Date: 07-Jan-2003 12:05

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103F.B\E1D8398F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103R.B\E1D8398R.D
Inj Date : 03-JAN-2003 13:52
Sample Info: LCS-4935,B1ELCS,MB-4935,pcb.sub,,
Misc Info : 3,,LCS,1,,,,,,,02-JAN-03,,A1905
Cal Date : 06-JAN-2003 09:25
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	300.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.803	8.460	3896	13225	0.66	0.59		100.00
Decachlorobiphenyl	22.173	25.367	11629	13054	0.67	0.61		100.00
Aroclor-1016	12.027	12.800	11766	64762	33	32	80.00- 120.00	100.00
	10.481	13.187	22558	22578	31	31	177.65- 217.65	191.72
	10.857	14.537	13521	19652	32	32	97.67- 137.67	114.92
			Average of Peak Amounts =		32	32		
Aroclor-1260	16.827	18.587	29504	43298	33	32	80.00- 120.00	168.80
	18.597	19.523	39888	44982	33	32	116.08- 156.08	115.19
	19.313	21.220	23671	67408	34	33	59.99- 99.99	80.23
			Average of Peak Amounts =		33	32		

BMF
01/07/03

001716

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
B1ELCSD

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: LCSD-4935

Sample wt/vol: 300.0 (g/ml) ML Lab File ID: E1D8399F

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 01/02/03

Concentrated Extract Volume: 10000(uL) Date Analyzed: 01/03/03

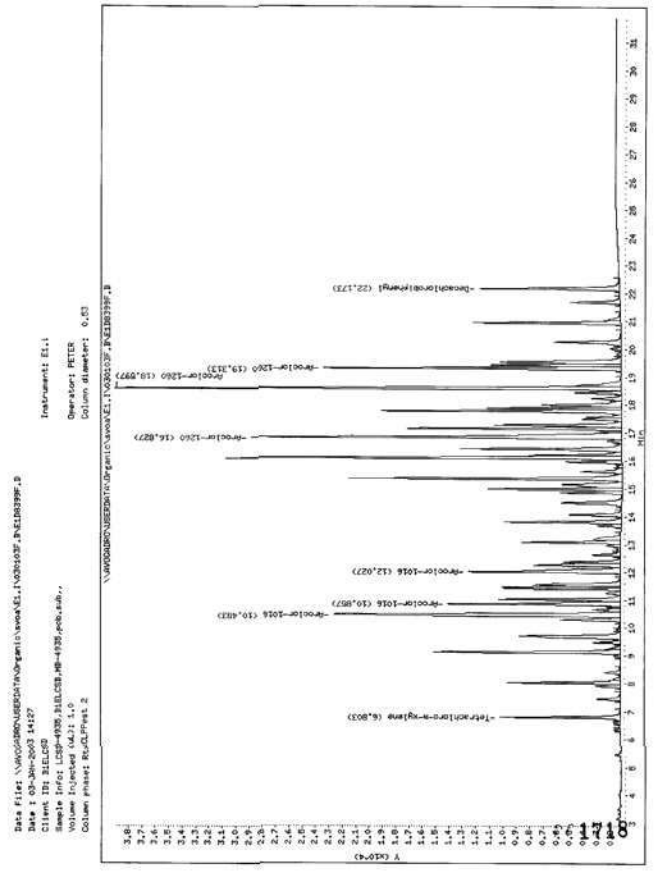
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

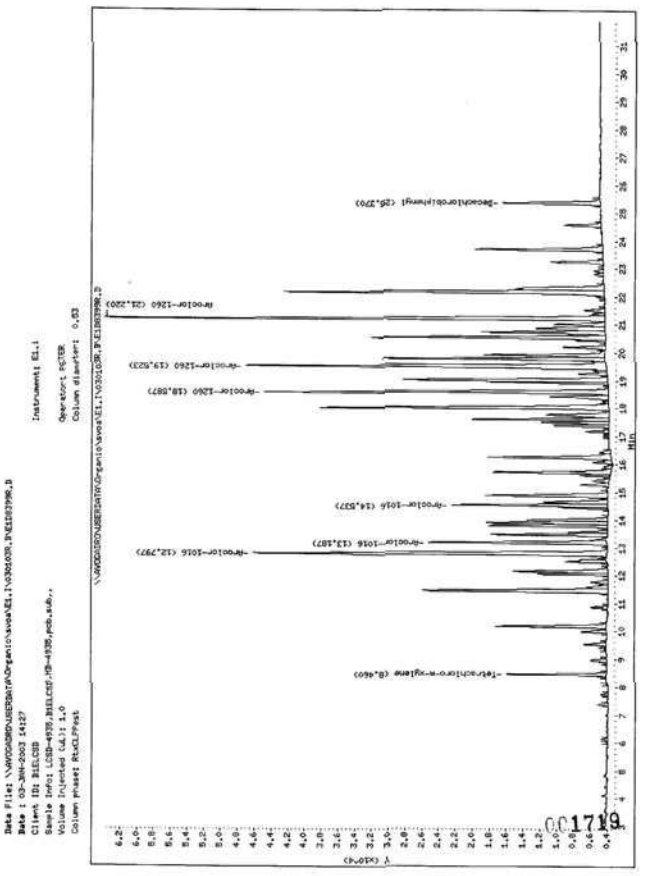
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	30	
11104-28-2	Aroclor-1221	3.3	U
11141-16-5	Aroclor-1232	3.3	U
53469-21-9	Aroclor-1242	3.3	U
12672-29-6	Aroclor-1248	3.3	U
11097-69-1	Aroclor-1254	3.3	U
11096-82-5	Aroclor-1260	30	

FORM I PCB

001717



1718



001719

Data File: E1D8399F.D
Report Date: 07-Jan-2003 12:05

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103F.B\E1D8399F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103R.B\E1D8399R.D
Inj Date : 03-JAN-2003 14:27
Sample Info: LCSD-4935,B1ELCSD,MB-4935,pcb.sub,,
Misc Info : 3,,LCSD,1,,,,,,,02-JAN-03,,A1905
Cal Date : 06-JAN-2003 09:25
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030103R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	10000.000	Volume of final extract (uL)
Vo	300.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.803	8.460	8884	11821	0.59	0.53		100.00
Decachlorobiphenyl	22.173	25.370	10333	11531	0.59	0.54		100.00
Aroclor-1016	12.027	12.797	11227	42060	31	30	88.00- 120.00	100.00
	10.483	13.187	21358	21075	30	29	177.85- 217.85	190.24
	10.857	14.537	12765	18493	30	30	97.87- 137.87	113.73
			Average of Peak Amounts =		30	30		
Aroclor-1260	16.827	18.587	27671	40908	31	30	80.00- 120.00	100.00
	18.597	19.523	37763	42839	31	31	116.08- 156.08	136.47
	19.311	21.220	22169	59446	32	31	59.99- 99.99	80.12
			Average of Peak Amounts =		31	31		

Bmf
01/07/03

001720

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
B1ALCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix: (soil/water) WATER Lab Sample ID: LCS-5070

Sample wt/vol: 1000 (g/ml) ML Lab File ID: E1D8496F

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 01/13/03

Concentrated Extract Volume: 2500(uL) Date Analyzed: 01/13/03

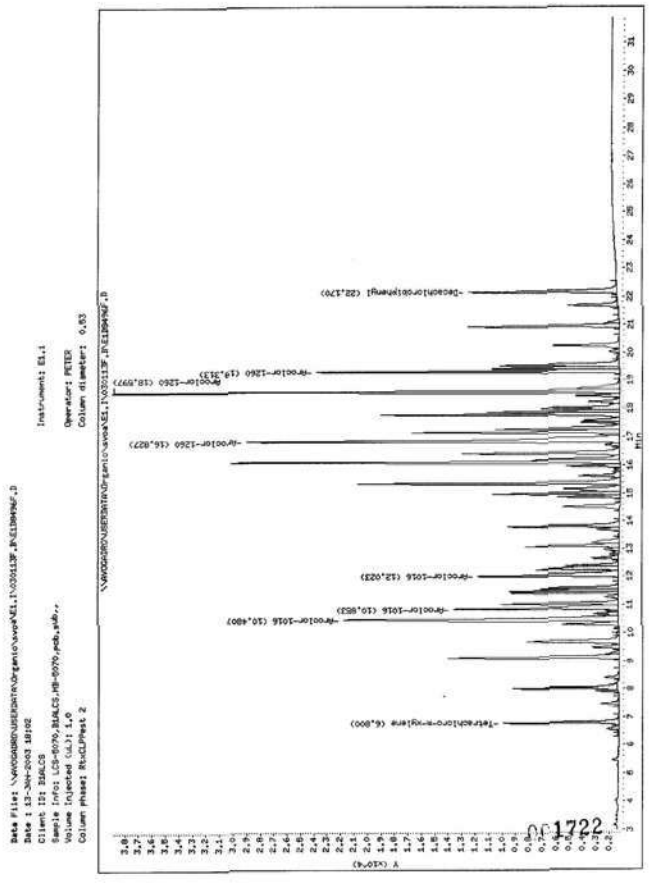
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

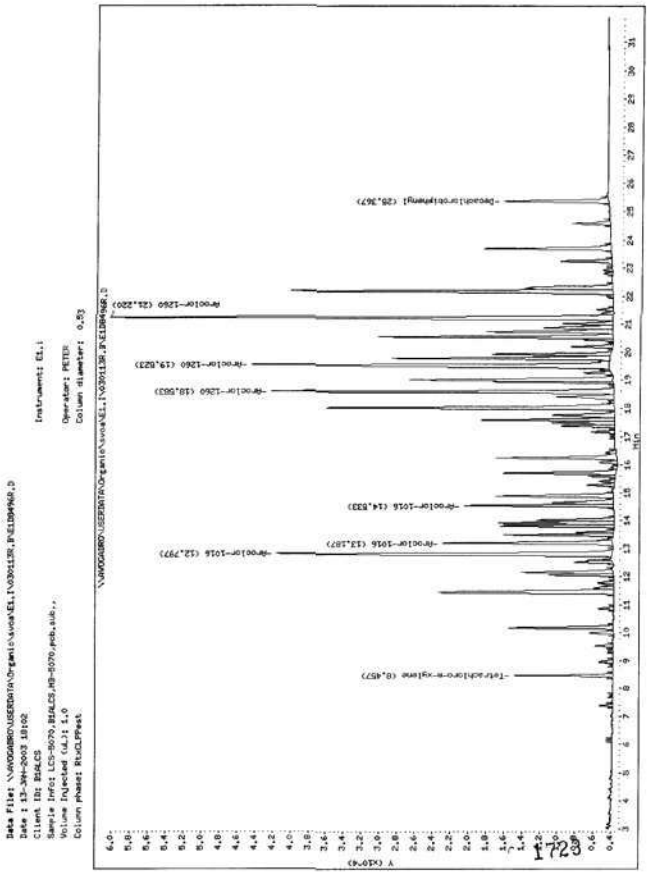
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	2.0	
11104-28-2	Aroclor-1221	0.25	U
11141-16-5	Aroclor-1232	0.25	U
53469-21-9	Aroclor-1242	0.25	U
12672-29-6	Aroclor-1248	0.25	U
11097-69-1	Aroclor-1254	0.25	U
11096-82-5	Aroclor-1260	2.2	

FORM I PCB

001721



001722



Data File: E1D8496F.D
Report Date: 15-Jan-2003 10:34

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113F.B\E1D8496F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113R.B\E1D8496R.D
Inj Date : 13-JAN-2003 18:02
Sample Info: LCS-5070,B1ALCS,MB-5070,pcb.sub,,
Misc Info : 3,,LCS,1,,,,,,,13-JAN-03,,B0033
Cal Date : 14-JAN-2003 15:26
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	2500.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.800	8.457	8539	10962	0.043	0.037		100.00
Decachlorobiphenyl	22.170	25.367	11012	11667	0.047	0.041		100.00
Aroclor-1016	12.023	12.797	10462	37690	2.2	2.0	80.00- 120.00	100.00
	10.480	13.187	20413	18910	2.1	2.0	187.36- 227.36	195.12
	10.853	14.533	12247	16605	2.2	2.0	102.67- 142.67	117.25
			Average of Peak Amounts =		2.2	2.0		
Aroclor-1260	16.827	18.583	27786	36445	2.4	2.1	80.00- 120.00	100.00
	18.597	19.523	37685	40062	2.3	2.2	115.98- 155.98	135.63
	19.513	21.220	22530	54288	2.4	2.2	61.17- 101.17	81.05
			Average of Peak Amounts =		2.4	2.2		

1/15/03

001724

FORM 1
PCB ORGANICS ANALYSIS DATA SHEET

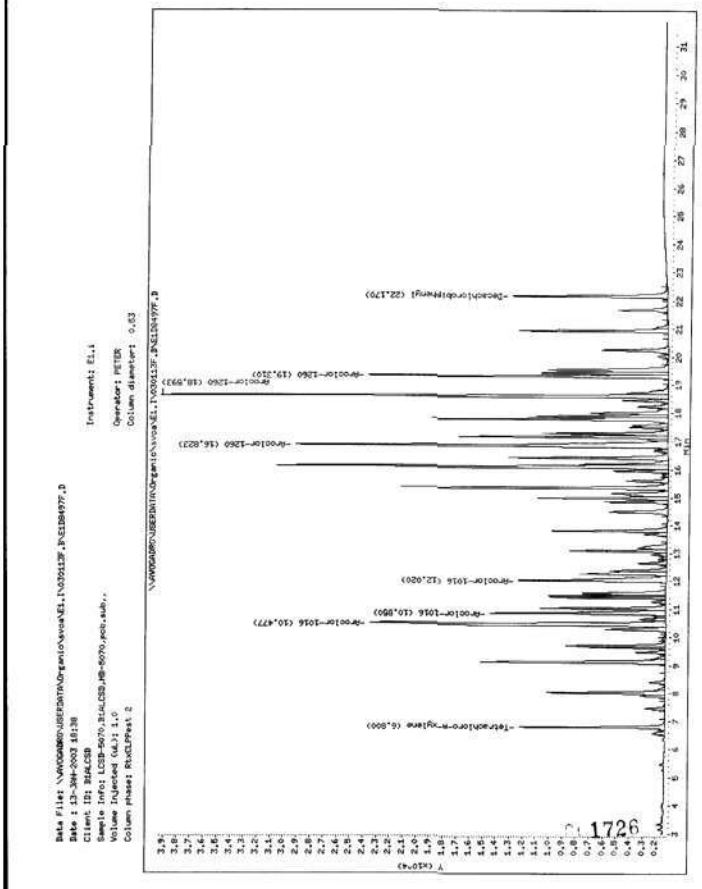
CLIENT SAMPLE NO.
B1ALCSD

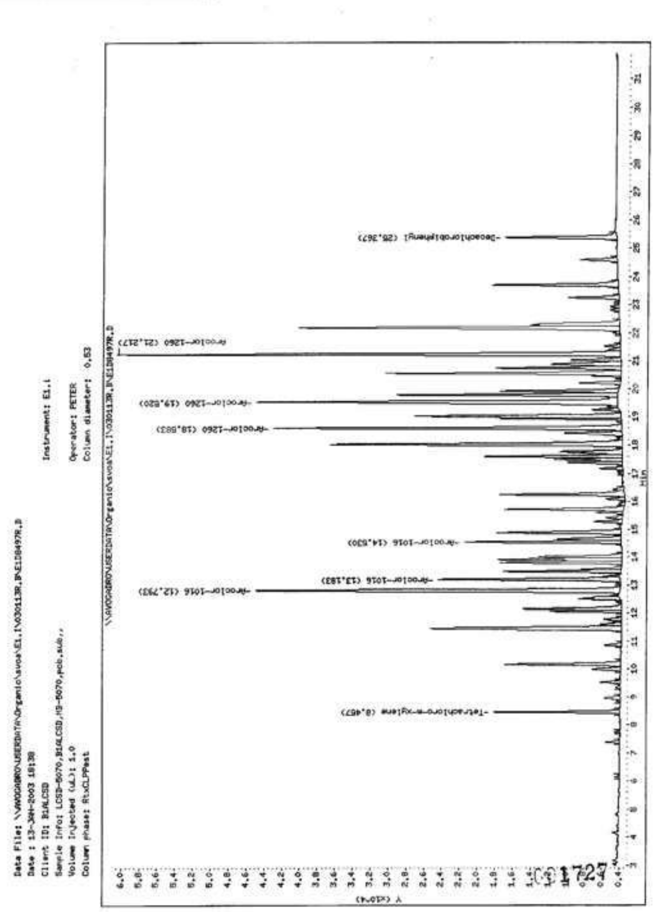
Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix: (soil/water) WATER Lab Sample ID: LCSD-5070
Sample wt/vol: 1000 (g/ml) ML Lab File ID: E1D8497F
% Moisture: _____ decanted: (Y/N)___ Date Received: _____
Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:01/13/03
Concentrated Extract Volume: 2500(uL) Date Analyzed: 01/13/03
Injection Volume: 1.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	2.1	
11104-28-2	Aroclor-1221	0.25	U
11141-16-5	Aroclor-1232	0.25	U
53469-21-9	Aroclor-1242	0.25	U
12672-29-6	Aroclor-1248	0.25	U
11097-69-1	Aroclor-1254	0.25	U
11096-82-5	Aroclor-1260	2.2	

FORM I PCB

001725





Data File: E1D8497F.D
Report Date: 15-Jan-2003 10:34

Mitkem Corporation

Sample #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113F.B\E1D8497F.D
Sample #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113R.B\E1D8497R.D
Inj Date : 13-JAN-2003 18:38
Sample Info: LCSD-5070,B1ALCSD,MB-5070,pcb.sub,,
Misc Info : 3,,LCSD,1,,,,,,,13-JAN-03,,B0033
Cal Date : 14-JAN-2003 15:26
Operator : PETER
Inst ID : E1.i
Dil Factor : 1.000000

Method #1 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113F.B\E1_PCB_F.m
Method #2 : \\AVOGADRO\USERDATA\Organic\svoa\E1.I\030113R.B\E1_PCB_R.m
Sub List #1 : pcb.sub
Sub List #2 : pcb.sub
Col #1 Phase : RtxCLPPest 2
Col #2 Phase : RtxCLPPest

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi)

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	Correction factor
Vt	2500.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (ml)
Vi	1.000	Volume injected (uL)

Compound	RT#1	RT#2	Resp#1	Resp#2	Conc#1 (ug/L)	Conc#2 (ug/L)	Target Range	Ratio
Tetrachloro-m-xylene	6.800	8.457	10906	14086	0.054	0.047		100.00
Decachlorobiphenyl	22.170	25.367	11610	12407	0.050	0.044		100.00
Aroclor-1016	12.020	12.793	11123	40900	2.3	2.2	80.00- 120.00	100.00
	10.477	13.183	22201	20382	2.3	2.1	187.36- 227.36	199.60
	10.850	14.530	13197	17569	2.3	2.1	102.67- 142.67	118.65
		Average of Peak Amounts =			2.3	2.1		
Aroclor-1260	16.923	18.583	27959	39110	2.4	2.2	80.00- 120.00	100.00
	18.593	19.520	38036	40505	2.4	2.2	115.98- 155.98	136.04
	19.310	21.217	22468	56476	2.4	2.2	61.17- 101.17	80.36
		Average of Peak Amounts =			2.4	2.2		

1/15/03

1728

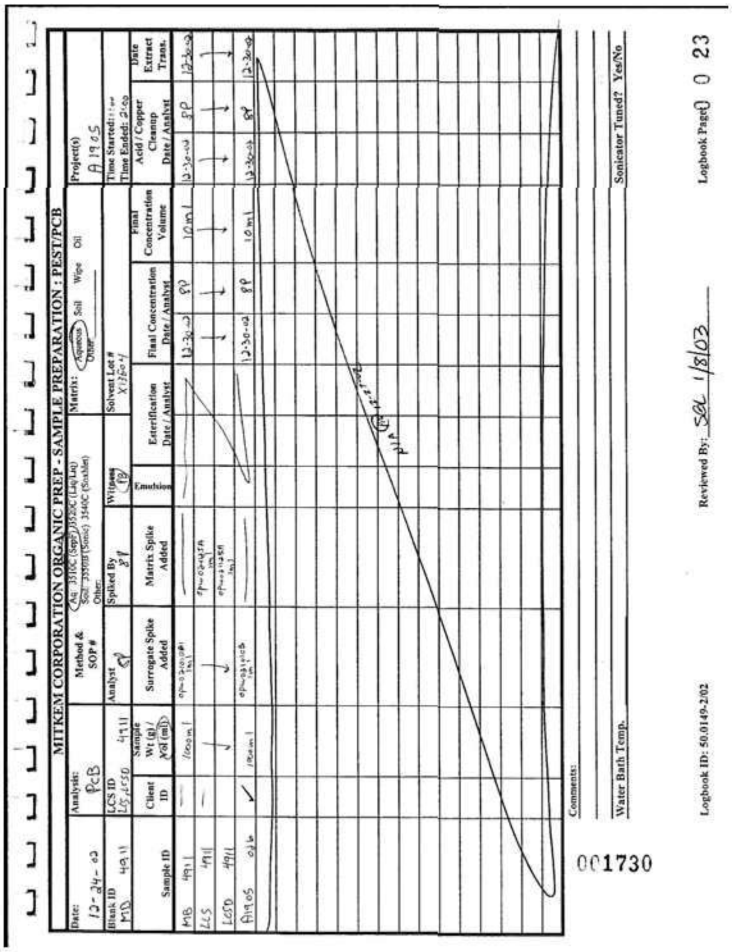
Percent Moisture and Percent Solids Report

Mitkem Sample ID	Client Sample ID	Analyzed	Percent Moisture	Percent Solids	Validated
A1905-04A	AOC3SSTB4902	12/31/2002	9	91	Yes
A1905-05A	AOC3SSTB5312	12/31/2002	7	93	Yes
A1905-06A	AOC3SSTB5402	12/31/2002	9	91	Yes
A1905-11A	AOC3SSD5A45	12/31/2002	9	91	Yes
A1905-12A	AOC3SSD5B45	12/31/2002	10	90	Yes
A1905-13A	AOC3SSTB4945	12/31/2002	11	89	Yes
A1905-15A	AOC5SSTB6267	12/31/2002	43	57	Yes
A1905-17A	AOC7SSTB6578	12/31/2002	43	57	Yes
A1905-19A	AOC5ASSTB6956	12/31/2002	11	89	Yes
A1905-20A	AOC5ASSD7A56	12/31/2002	8	92	Yes
A1905-21A	AOC5ASSD7B56	12/31/2002	8	92	Yes
A1905-22A	AOC6SSTB7167	12/31/2002	37	63	Yes
A1905-23A	AOC5ASSTB7002	12/31/2002	7	93	Yes
A1905-24A	AOC5ASSTB6978	12/31/2002	49	51	Yes
A1905-25A	AOC5ASSTB68015	12/31/2002	7	93	Yes
A1905-27A	AOC2TB5512	12/31/2002	8	92	Yes
A1905-28A	AOC2TB24	12/31/2002	9	91	Yes
A1905-29A	AOC2TB5802	12/31/2002	5	95	Yes
A1905-30A	AOC2TB57675	12/31/2002	11	89	Yes

001729

Monday, January 06, 2003

Page 1 of 1



MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : PEST/PCB

Date: 12-28-02 | Analysis: PCB | Method & SOP #: Aq: 3510C (Sep F) 3520C (Liq/Liq) Soil: 3550B (Sonic) 3540C (Soxhlet) Other: | Matrix: Aqueous Soil Wipe Oil Other: | Project(s): A1905

Blank ID: MB 4933 | LCS ID: LCS 4933 LCSD 4933 | Analyst: TS | Spiked By: TS | Witness: | Solvent Lot #: XUE46 | Time Started: 1400 | Time Ended:

Sample ID	Client ID	Sample Wt (g) / Vol (ml)	Surrogate Spike Added	Matrix Spike Added	Emulsion	Esterification Date / Analyst	Final Concentration Date / Analyst		Final Concentration Volume	Acid / Copper Cleanup Date / Analyst		Date Extract Trans.
MB 4933		1000 ml	1ml	1ml			12-28-02	TS	10ml	12-28-02	TS	12-28-02
LCS 4933				1ml								
LCSD 4933				1ml								
A1905 007												
A1905 008												
A1905 014		1000 ml	1ml				12-28-02	TS	10ml	12-28-02	TS	12-28-02

Comments:

Water Bath Temp. | Sonicator Tuned? Yes/No

001733

Logbook ID: 50.0149-2/02 | Reviewed By: SBL 1/8/03 | Logbook Page: 0 25

MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : SEMIVOLATILES

Date: 12-26-02 | Analysis: 8270 | Method & SOP #: Aq: 3510C (Sep F) 3520C (Liq/Liq) Soil: 3550B (Sonic) 3540C (Soxhlet) Other: | Matrix: Aqueous Soil Wipe Oil Other: | Project(s): A1905

Blank ID: MB 4924 | LCS ID: LCS, LCSD 4924 | Analyst: SP | Spiked By: SP | Witness | Solvent Lot#: [illegible] | H_2SO_4 Lot# | NaOH Lot# | Time Started: [illegible] Time Ended: [illegible]

Project ID	Sample ID	Sample Wt (g) / Vol (ml)	Surrogate Spike Added	Matrix Spike Added	H_2SO_4 pH<2	NaOH pH > 10	Emulsion	KD Prior to Fractionation Date / Analyst	Fractionation Date / Analyst	Final Concentration Date / Analyst		Final Conc. Volume	Date Extrac Trans
MB	4924	1000ml	1ml	1ml	✓					12-28-02	TS	1ml	12-28-02
LCS	4924			1ml									
LCSD	4924			1ml								1ml	
A1905	014	1000ml	1ml									1ml	
L	016	500ml	1ml									½ml	
A1905	018	500ml	1ml		✓					12-28-02	TS	½ml	12-28-02

Comments:

Sonicator Tuned: Yes / No

Water Bath Temperature:

001731

Logbookk ID 50.0147-5/02 | Reviewed By: 12-30-02 | Logbook Page 0004

MITKEM CORPORATION: Non-Volatile TCLP/SPLP Extraction Logbook

Date	Sample ID	Initial pH	pH After 3.5mL 1N HCl	Extraction Fluid	Sample Weight (g)	Fluid Volume (mL)	Tumble Start Time/Date	Tumble End Time/Date	Final pH	Comments	Analyst
12-28-02	MB-4935	—	—	SPLP	25	500	12/28/02 1400	12/29/02 0700	≈4.2		TS
	LCS-4935				25						
	LCSD-4935				25						
	A1905-19				25.1						
	-20				25.6						
	-21				25.3						
	-23				25.2						
12/29/02	A1905-25	—	—	SPLP	25.2	500	12-29-02 1400	12-30-02 0700	≈4.2		TS

001732

QAT00171 4
7P-21

Reviewed By: 12-30-02 | Page: 0063

MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : PEST/PCB

Date: 12-27-02 | Analysis: 8081/8082 | Method & SOP #: Aq: 3510C (Sep F) 3520C (Liq/Liq) Soil: 3550B (Sonic) 3540C (Soxhlet) Other: | Matrix: Aqueous Soil Wipe Oil Other: | Project(s): A1905

Blank ID: MB-4929 | LCS ID: LCS, LCSD-4929 LCS, LCSD-4530 | Analyst: TS | Spiked By: TS | Witness: | Solvent Lot #: XIE64 | Time Started: 14:00 Time Ended: 16:00

Sample ID	Client ID	Sample Wt (g) / Vol (ml)	Surrogate Spike Added	Matrix Spike Added	Emulsion	Esterification Date / Analyst	Final Concentration Date / Analyst		Final Concentration Volume	Acid / Copper Cleanup Date / Analyst		Date Extract Trans.
MB-4929	*	30.0	9				1-4-03	TS	**	1-4-03	TS	1-4-03
LCS-4929	*	30.0							**			
LCSD-4929	*	30.0					1-4-03	TS	**	1-4-03	TS	1-4-03
LCS-4530		30.0					12-28-02	TS	10ml	12-28-02	TS	12-28-02
LCSD-4530		30.0					12-28-02	TS	10ml	12-28-02	TS	12-28-02
A1905-01	*	30.2					1-4-03	TS	**	1-4-03	TS	1-4-03
-02	*	30.1							**			
-03	*	30.1							**			
-04	*	30.4							**			
-05	*	30.6							**			
-06	*	30.3	9				1-4-03	TS	**	1-4-03	TS	1-4-03
-19	✓	30.0	11				12-28-02	TS	10ml	12-28-02	TS	12-28-02
-20	✓	30.1	8									
-21	✓	30.2	8									
-23	✓	30.1	7									
-25	✓	30.1	7									
A1905-28	✓	30.4	9				12-28-02	TS	10ml (R)	12-28-02	TS	12-28-02

Comments: * PEST/PCB

** FV: 10 ml Pre-GPC, Sent into GPC, FV: 2.5ml Post GPC

Water Bath Temp. | Sonicator Tuned? Yes/No

001732

Logbook ID: 50.0149-2/02 | Reviewed By: SBL 1/8/03 | Logbook Page 0 0 24

MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : PEST/PCB

Date: 1-2-03 | Analysis: SPLP PCB | Method & SOP #: Aq: 3510C (Sep.F) 3520C (Liq/Liq) Soil: 3550B (Sonic) 3540C (Soxhlet) Other: | Matrix: Aqueous Soil Wipe Oil Other: | Project(s): A1905

Blank ID: MB4935 | LCS ID: LCS 4935 / LCSD 4935 | Analyst: | Spiked By: | Witness: TS | Solvent Lot #: K13E04 | Time Started: 11:00 | Time Ended: 12:00

Sample ID	Client ID	Sample Wt (g) / Vol (ml)	Surrogate Spike Added	Matrix Spike Added	Extraction	Esterification Date / Analyst	Final Concentration Date / Analyst	Final Concentration Volume	Acid / Copper Cleanup Date / Analyst	Date Extract Trans.
MB4935		300 ml	DAN012264 1ml				1-3-03 TS	10mL	1-3-03 TS	1-3-03
LCS4935				DPW012125A 1ml						
LCSD4935				DPW012125A 1ml						
A1905 019										
020										
021										
023										
A1905 025		300 ml	DPW012264 1ml				1-3-03 TS	10mL	1-3-03 TS	1-3-03

Comments:

Water Bath Temp. 40°C | Sonicator Tuned? Yes/No

001735

Logbook ID: 50.0149-2/02 | Reviewed By: (PA) 1-3-03 | Logbook Page: 0 26

MITKEM CORPORATION EXTRACTS TRANSFER LOGBOOK: PESTICIDES/PCB ANALYSIS

Date Transferred from Prep Lab	Lab ID	Transferred by	Received by	Storage Location	Comments
12.27.02	A1877	TS		RG	
	005 mb 4935				
	006				
	010				
	011				
	012				
	013				
	014				
	015				
	016				
12.27.02	A1877	TR	RG	KL	
	017				
12.27.02	A1876			RG	
	002				
	003				
	004				
	005 ms/sp				
	005 msp				
	006				
	007				
	008				
12.27.02	A1876	TS	RG		
12.28.02	LCS 4936				
12.28.02	LCSD 4936				
	A1905 019				
	020				
	021				
	023				
	025				
12.28.02	A1905	TS			
	028				
12.28.02	mb 4933	TR			
12.28.02	LCS 4933	TS			

Logbook ID: 60.0132-1/02 | Reviewed by: | Logbook page: 0001737

MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : PEST/PCB

Date: 1-13-03 | Analysis: PCB | Method & SOP #: Aq: 3510C (Sep.F) 3520C (Liq/Liq) Soil: 3550B (Sonic) 3540C (Soxhlet) Other: | Matrix: Aqueous Soil Wipe Oil Other: | Project(s): B0033 B0051

Blank ID: MB-5070 | LCS ID: LCS,LCSD-5070 | Analyst: WN | Spiked By: WN | Witness: (PA) | Solvent Lot #: K13E04 | Time Started: 19:00 | Time Ended: 19:00

Sample ID	Client ID	Sample Wt (g) / Vol (ml)	Surrogate Spike Added	Matrix Spike Added	Extraction	Esterification Date / Analyst	Final Concentration Date / Analyst	Final Concentration Volume	Acid / Copper Cleanup Date / Analyst	Date Extract Trans.
MB-5070	—	1000mL	DPW022264 250ml				1-13-03 (PA)	2.5mL	1-13-03 (PA)	1-13-03
LCS-5070	—			DPW012125A 250ml				2.5mL		
LCSD-5070	—		DPW012264 250ml	DPW012125A 250ml				2.5mL		
B0033	01		DPW012264 1ml					1mL		
B0033	02		DPW012264 1ml					1mL		
B0051	01		DPW012264 250ml					2.5mL		
	02									
B0051	03	1000mL	DPW022264 250ml Lot				1-13-03 (PA)	2.5mL	1-13-03 (PA)	1-13-03
A1905	16RE	500mL	DPW012264 Split				1/13/03 (PA)	5mL	1-13-03 (PA)	1-13-03
A1905	18RE	500mL	DPW012264 Split							

Comments:

Water Bath Temp. 40°C | Sonicator Tuned? Yes/No

001736

Logbook ID: 50.0149-2/02 | Reviewed By: SGL 1/15/03 | Logbook Page: 0 33

MITKEM CORPORATION EXTRACTS TRANSFER LOGBOOK: PESTICIDES/PCB ANALYSIS

Date Transferred from Prep Lab	Lab ID	Transferred by	Received by	Storage Location	Comments
12.28.02	mb 4933	TS		RG	
	A1905 028				
	Aroclor A1905 028				
12.28.02	LCS 4934	TS			
12-28-02	MB-4934				
	A1905 014				
12-30-02	MB 4933				
	A1905 - 01				
	- 02				
	- 03				
12-30-02	A1905 - 04				
	- 05				
	- 06				
	- 07				
	- 08				
	- 09				
	- 10				
	- 11				
	- 12				
	- 13				
	- 13ms				
	- 13msD				
	- 14				
	- 15msD				
	A1905 - 15				
	MB 4934				
	LCS 4934				
	LCSD 4934				
	LCS 4933				
	LCSD 4933				
	A1910				
12/31/02	A1910				

Logbook ID: 60.0132-1/02 | Reviewed by: | Logbook page: 0001738

MITKEM CORPORATION EXTRACTS TRANSFER LOGBOOK: PESTICIDES/PCB ANALYSIS

Date Transferred from Prep Lab	Lab ID	Transferred by	Received by	Storage Location	Comments
12-30-02	MB 4911	SP	~	RG	
	LCS 4911				
	LCSD 4911				
	A1905 036				
	MB 4913				
	A1892 021				
	022				
	023				
	024				
	025				
	023 MS				
	023 MSD				
	025 MS				
	005 MSD				
	026				
	027				
	028				
	029				
	030				
	A1892 031				
	MB 4923				
	A1902 001				
	002				
	003				
	004				
	005				
	006				
	007				
	008				
	010				
	011				
	012				
	013				
12-30-02	A1902 014	SP	~	RG	

Logbook ID: 60.0132-1/02

Reviewed by ~ 12/31/02

Logbook page 000022

001739

MITKEM CORPORATION EXTRACTS TRANSFER LOGBOOK: PESTICIDES/PCB ANALYSIS

Date Transferred from Prep Lab	Lab ID	Transferred by	Received by	Storage Location	Comments
12-30-02	A1902 015	SP	~	RG	
12-31-02	A1892 001	SP	~	RG	
	002				
	003				
	004				
	005				
	006				
	006 MS				Post
	006 MSD				Post
	006 MS				PCB
	006 MSD				PCB
	007				
	008				
	009				
	010				
	011				
	012				
	013				
	014				
	015				
	016				
	017				
	018				
	019				
12-31-02	A1892 020	SP	~	RG	
1-3-03	MB 4935	TB	~	RG	
	LCS 4935				
	LCSD 4935				
	A1905 019				
	020				
	021				
	023				
1-3-03	A1905 025	TB	~	RG	

Logbook ID: 60.0132-1/02

Reviewed by SZ 1/8/03

Logbook page 000023

001740

MITKEM CORPORATION EXTRACTS TRANSFER LOGBOOK: PESTICIDES/PCB ANALYSIS

Date Transferred from Prep Lab	Lab ID	Transferred by	Received by	Storage Location	Comments
1-3-03	GP030102-PB1	PB	~	RG	
	-BNS1				
1-7-03	GP030102-ARoc1	PB			
1-3-03	MB-4932	PB			
	LCS-4932				
	LCSD-4932				
	LCS-4996				
	LCSD-4996				
	MB-4986				
	LCS-4986				
	LCSD-4986				
	A1970 01	PB			
1-3-03	B0002 01	PB	~	RG	
1-4-03	MB 4929	TB	SZ	RG	
	LCS 4929				
	LCSD 4929				
	A1905 001				
	002				
	003				
	004				
	005				
1-4-03	A1905 006	TB			
1-6-03	MB-4829	PB			
	LFB-4829				
	LCS-4829				
	A1862 - 01				
	- 02MS				
	- 02MSD				
	- 05				
	- 10				
	- 11				
	- 12				
1-6-03	A1862 - 13	TM	SZ	RG	

Logbook ID: 60.0132-1/02

Reviewed by SZ 1/8/03

Logbook page 000024

001741

MITKEM CORPORATION EXTRACTS TRANSFER LOGBOOK: PESTICIDES/PCB ANALYSIS

Date Transferred from Prep Lab	Lab ID	Transferred by	Received by	Storage Location	Comments
1-10-03	60032 014	TB	~	RG	
	015				
	016				
	017				
	018				
1-10-03	60032 019	TB	~	RG	
1-10-03	MB-5042	PB	~	RG	OLC 3.2 P.E. Sample
	LCS-5042				
1-10-03	60041-01C	PB	~	RG	OLC 3.2 PE
1-13-03	MB 5070	SP	~	RG	
	LCS 5070				
	LCSD 5070				
	B0033 001				
	B0033 003				
	B0051 001				
	002				
	B0051 003				
	A1905 016	RF			
1-13-03	A1905 018	RF SP	~	RG	
	MB 5076		SZ	RG	
	B0043 001				
	002				
	003				
	005				
	006				
	007				
	007 MS				Sample
	007 MSD				Sample
	007 MS				1362
	007 MSD				1362
	008				
	009				
	010				
1-13-03	B0043 014	SP	SZ	RG	

Logbook ID: 60.0132-1/02

Reviewed by SZ 1/14/03

Logbook page 000026

001742

MITKEM CORPORATION - PEST/PCB RUN LOGBOOK: INSTRUMENT E1

Sequence: 021222 | Method: 8081AE1 | ICAL Date: 12/22/02

Date	Sample ID		Client ID	File Name		Dilution	F	R	Comments	Analyst
12/20	AR1232B	L3		E1D82	83				ICAL OK! SZ 12/23/02	SZ
	AR1242B	L1			84					
		L2			85					
		L3			86					
		L4			87					
	AR1242B	L5			88					
	AR1248B	L1			89					
		L2			90					
		L3			91					
		L4			92					
	AR1248B	L5			93					
	AR1254B	L1			94					
		L2			95					
		L3			96					
		L4			97					
	AR1254B	L5			98					
	AR1660B	L1		E1D82	99					
		L2		E1D83	00					
		L3			01					
		L4			02					SZ
12/20	AR1660	L5		E1D83	03					BMF
	AR1660 5X				04		✓	✓		
	PIBLK				05					
	MB-4830				06		✓	✓		
	LCS-4830				07		✓	✓		
	LCSD-4830				08		✓	✓		
	A1873	-01			09		✓	✓		
		02			10	10X	✓	✓		
		03			11		✓	✓		
12/20	A1873	04		E1D83	12		✓	✓		BMF

Standard ID's

Comments

Logbook ID 60.0175-1/02 Reviewed by SZ 1/8/03 Logbook Page # 0000343

MITKEM CORPORATION - PEST/PCB RUN LOGBOOK: INSTRUMENT E1

Sequence: 021226, 021230 | Method: 8081AE1 | ICAL Date: 12/22/02

Date	Sample ID		Client ID	File Name		Dilution	F	R	Comments	Analyst
12/26	PRIME			E1D83	21					BMF
	AR1242	BB			22		✓	✓		
	AR1248				23		✓	✓		
	AR1254				24		✓	✓		
	AR1660	BB		E1D83	25		✓	✓		
	PIBLK			E1D80	27					
	MB-4877			E1D83	26		✓	✓		
	LCS-4878				27		✓	✓		
	LCSD-4878				28		✓	✓		
	A1896-	02A			29		✓	✓	1260 bmf 12/27/02	
	A1900-	01C			30		✓	✓	1260	
		02C			31		✓	✓	1260 DC&B	
		03C			32		✓	✓	1260	
	A1900	04C			33		✓	✓	1260	
	PIBLK				34					
	AR1242	BC			35		✓	✓		
	AR1248				36		✓	✓		
	AR1254				37		✓	✓		
	AR1660	BC			38		✓	✓		
12/27	PIBLK			E1D83	39					BMF
12/30	AR1242	BD		E1D83	40		✓	✓		BMF
	AR1248				41		✓	✓		
	AR1254				42		✓	✓		
	AR1660	BD			43		✓	✓		
	PIBLK				44					
	MB-4933				45		✓			
	LCS-4933				46		✓			
	LCSD-4933				47		✓			
	LCS-4930				48		✓			
12/30	LCSD-4930			E1D83	49		✓			BMF

Standard ID's

Comments

Logbook ID 60.0175-1/02 Reviewed by SZ 1/8/03 Logbook Page # 000032 (1744)

MITKEM CORPORATION - PEST/PCB RUN LOGBOOK: INSTRUMENT E1

Sequence: 021230 | Method: 8081AE1 | ICAL Date: 12/22/02

Date	Sample ID		Client ID	File Name		Dilution	F	R	Comments	Analyst
12/30	A1905-	07B		E1D83	50		✓	✓	ND	BMF
		08A			51		✓			
		14B			52		✓			
		19A			53		✓			
	A1905-	20A			54		✓		ND	
	PIBLK				55					
	AR1242	BE			56		✓	✓		
	AR1248				57		✓	✓		
	AR1254				58		✓	✓		
	AR1660	BE			59		✓	✓		
	PIBLK				60					
	A1905-	21A			61		✓	✓	ND	
		22A 100X			62		✓			
		23A 25X			63		✓			
	A1905-	24A	23C		64		✓		ND	
	PIBLK				65					
	AR1242	BF			66		✓	✓		
	AR1248				67		✓	✓		
	AR1254				68		✓	✓		
	AR1660	BE			69		✓	✓		
12/30	PIBLK			E1D83	70					BMF
12/31	AR1242	BG		E1D83	71		✓	✓		
	AR1248				72		✓	✓		
	AR1254				73		✓	✓		
	AR1660	BG			74		✓	✓		
	PIBLK				75					
	MB-49	11			76		✓	✓		
	MB-48	92			77		✓	✓		
	LCS-49	11			78		✓			
12/31	LCSD-49	11		E1D83	79		✓			

Standard ID's

Comments

Logbook ID 60.0175-1/02 Reviewed by [illegible] 1/2/03 Logbook Page # 001745 000033

MITKEM CORPORATION - PEST/PCB RUN LOGBOOK: INSTRUMENT E1

Sequence: 021230, 030103 | Method: 8081AE1 | ICAL Date: 12/22

Date	Sample ID		Client ID	File Name		Dilution	F	R	Comments	Analyst
12/31	A1905-	26C		E1D83	80		✓	✓	Clean	
	A870 -	04F			81		✓		DC&B	
	A1899 -	02H			82		✓		DC&B	
	LCS-48	93			83		✓			
	LCSD-48	93			84		✓			
	PIBLK				85					
	AR1242	BH			86		✓	✓		
	AR1248				87		✓	✓		
	AR1254				88		✓	✓		
12/31	AR1660	BH		E1D83	89		✓	✓		
01/03	PRIME			E1D83	91					BMF
	AR1242	BG			92		✓	✓		
	AR1248				93		✓	✓		
	AR1254				94		✓	✓		
	AR1660	BG			95		✓	✓		
	PIBLK				96					
	MB-4935				97			✓		
	LCS-4935				98			✓		
	LCSD-4935			E1D83	99			✓		
	A1905-	19A		E1D84	00		✓		Clean	
		20A			01		✓			
		21A			02		✓			
		23A			03		✓			
	A1905-	25A			04		✓		Clean	
	PIBLK				05					
	AR1242	BH			06		✓	✓		
	AR1248				07		✓	✓		
	AR1254				08		✓	✓		
	AR1660	BH			09		✓	✓		
01/03	PIBLK			E1D84	10					BMF

Standard ID's

Comments

Logbook ID 60.0175-1/02 Reviewed by SZ 1/8/03 Logbook Page # 000034 (1744)

MITKEM CORPORATION - PEST/PCB RUN LOGBOOK: INSTRUMENT E1

Sequence: 030103, 030106 Method: 8081AE1 ICAL Date: 12/22/02

Date	Sample ID		Client ID	File Name		Dilution	F	R	Comments	Analyst
01/03	MB-4986			EID84	11		✓			BMF
↓	LCS-4986			↓	12		✓			↓
	LCSD-4986				13		✓			
↓	A1920-	01A			14		✓		1260	
01/03	PIBLK				15					
01/04	MB-4932				16		✓			
	LCS-4996				17		✓			
	LCSD-4996				18		✓			
	B0002-	01B			19		✓			
	PIBLK				20					
	AR1242	BI			21		✓	✓		
	AR1248	↓			22		✓	✓		
	AR1254	↓			23		✓	✓		
↓	AR1660	BI		↓	24		✓	✓		↓
01/04	PIBLK			EID84	25					BMF
01/06	PRIME			↓	26					↓
	AR1242	BJ			27		✓	✓		
	AR1248	↓			28		✓	✓		
	AR1254	↓			29		✓	✓		
	AR1660	BJ			30		✓	✓		
	PIBLK				31					
	MB-4929				32		✓	✓		
	A1905-	06C			33		✓	✓	ND	
	PIBLK				34					
	AR1242	BK			35		✓	✓		
	AR1248	↓			36		✓	✓		
	AR1254	↓			37		✓	✓		
↓	AR1660	BK		↓	38		✓	✓		↓
01/06	PIBLK			EID84	39					BMF

Standard ID's

Comments

Logbook ID 60.0175-1/02 Reviewed by SSL 1/8/03 Logbook Page # 001745

MITKEM CORPORATION - PEST/PCB RUN LOGBOOK: INSTRUMENT E1

Sequence: 030109 030113 Method: 8081AE1 ICAL Date: 12/12

Date	Sample ID		Client ID	File Name		Dilution	F	R	Comments	Analyst
1/9	PRIME			EID84	74					~
	AR1242	BL		↓	75		✓	✓		↓
	AR1248	↓			76		✓	✓		
	AR1254	↓			77		✓	✓		
	AR1660	BL			78		✓	✓		
	PIBLK				79					
	MB-50	10			80		✓	✓		
	B0010-	01D			81				TCX↑ Clean	
	B0010-	MB			82				TCX↑ 1016?	
	PIBLK				83		✓	✓		
	AR1242	BM			84		✓	✓		
	AR1248	↓			85		✓	✓		
	AR1254	↓			86		✓	✓		
↓	AR1660	BM		↓	87		✓	✓		↓
1/9	PIBLK			EID84	88					~
1/12	PRIME			EID84	89					~
	AR1242	BL		↓	90		✓	✓		↓
	AR1248	↓			91		✓	✓		
	AR1254	↓			92		✓	✓		
	AR1660	BL			93		✓	✓		
	PIBLK				94					↓
	MB-5070		BBLKIA		95		✓			SZ
	LCS-5070		BIALCS		96		✓			↓
	LCSD-5070		BIALCSD		97		✓			
	B0033-	02		↓	99		✓			
		01		EID84	98		✓			
	B0051-	01		EID85	00		✓		25V1	
		02		↓	01		✓		↓	
↓	B0051	03		↓	02		✓			↓
1/13	A1905-	16E RE		EID85	03					SZ

Standard ID's

Comments

Logbook ID 60.0175-1/02 Reviewed by SSL 1/15/03 Logbook Page # 001748

MITKEM CORPORATION - PEST/PCB RUN LOGBOOK: INSTRUMENT E1

Sequence: 030113 Method: 8081AE1 ICAL Date: 12/12/02

Date	Sample ID		Client ID	File Name		Dilution	F	R	Comments	Analyst
1/13/3	A1905-	18E	RE	EID85	04			✓		SZ
	PIBLK			↓	05					↓
	AR1242	BM			06		✓	✓		
	1248	↓			07		✓	✓		
↓	1254	↓		↓	08		✓	✓		↓
1/13/3	AR1660	BM		EID85	09		✓	✓		SZ
1/14/03	MB-49	24		EID85	10				hexane exchanged ETPH extracts	~
	A1905-	16D		↓	11					↓
	A1903-	18D			12					
	PIBLK				13					
	AR1660	BN			14		✓	✓		
	AR1242	↓			15		✓	✓		
	AR1248	↓			16		✓	✓		
↓	AR1254	BN		↓	17		✓	✓		↓
1/14/03	PIBLK			EID85	18					~

Standard ID's

Comments

Logbook ID 60.0175-1/02 Reviewed by SSL 1/15/03 Logbook Page # 0001783

MITKEM CORPORATION: Sample Receipt Tracking Logbook

Project	Date Received	Client	Storage Location	#'s/ Analyst/ Date In	#'s/ Analyst/ Date Out	#'s/ Analyst/ Date In	#'s/ Analyst/ Date Out	#'s/ Analyst/ Date In	#'s/ Analyst/ Date Out	#'s/ Analyst/ Date In	Dispose After	Date Disposed
A1901	12-21-02	TAMS	SUB C3	01-04- TOC+ DIOX 01-12-	1-4 BH 12/24	1-4 BH 12/24	1-4 12-23-02 TJ	1-4 12-23-02 TJ			2-21-03	
A1902	12-21-02	TETRA TECH	VOA I FLOOR H3	01-15 01-08, 10:15 "	1-8,10-13 SP 12-26	Empty SP					3-21-03	
A1903	12/23	tyree	B2 metals M4	12/23 E 01-06 01-06 E	1-6 BH 12/24	1-6 BH 12/24						
A1904	12/23	D+B	B1 VOA	12/23 PAS 01-06	1-5 SP 12-24	Empty						
A1905	12/23	HRP	M3 B1 B2 VOA		1-3,6 BH 12/24 7-8,10; 9,6 SP 12-24	1-3,6 7-8,10 BH 12/24; Empty	[illegible]; 7,8,14,18 SP 12-26	[illegible]; Empty SP 12-26	1-6,11-13 12-27-02 TJ; 14,16,15 16,18 BH 12/30	1-6,11-13 12-27-02 TJ; 14,16,15 16,18 BH 12/30	[illegible]	

Logbook ID 30.0187-1/02 Reviewed By: SSL 1/8/03 Logbook page 33

00175

MITKEM CORPORATION

* Extractable Total Petroleum Hydrocarbon *

001751

MITKEM CORPORATION

Analysis Report: Extractable Total Petroleum Hydrocarbons

Client: HRP Associates
Analysis: CT-ETPH, 3/99
Matrix: Aqueous

Concentration in: mg/L
Date Extracted: 12/28/02

Lab ID	Client ID	Result	Reporting Limit	p-Terphenyl Surrogate % Recovery	Analysis Date
A1905-14C	AOC5E7	ND	0.35	71	12/31/02
A1905-16D	AOCSWTB62W	ND	0.35	80	12/31/02
A1905-18D	AOC7WTB85GW	0.45	0.35	69	12/31/02
QA/QC					
Method Blank					
MB-4924		ND	0.35	95	12/31/02
Lab Control Sample (% Recovery)					
LCS-4924		88		87	12/31/02
LCSD-4924		77		97	12/31/02

ND = Not Detected

001752

MITKEM CORPORATION

Analysis Report: Extractable Total Petroleum Hydrocarbons

Client: HRP Associates
Analysis: CT-ETPH, 3/99
Matrix: Aqueous

Concentration in: mg/L
Date Extracted: 12/24/02

Lab ID	Client ID	Result	Reporting Limit	p-Terphenyl Surrogate % Recovery	Analysis Date
A1905-26B	AOC2E6	ND	0.35	92	12/31/02
QA/QC					
Method Blank					
MB-4912		ND	0.35	88	12/31/02
Lab Control Sample (% Recovery)					
LCS-4912		84		91	12/31/02
LCSD-4912		75		100	12/31/02

ND = Not Detected

001753

MITKEM CORPORATION

Analysis Report: Extractable Total Petroleum Hydrocarbons

Client: HRP Associates
Analysis: CT-ETPH, 3/99
Matrix: Soil

Concentration in: mg/kg, dry weight basis
Date Extracted: 12/31/02

Lab ID	Client ID	Result	Reporting Limit	% Solid	p-Terphenyl Surrogate Recovery %	Analysis Date
A1905-28A	AOC2TB5624	ND	13	91	69	1/2/03
A1905-29A	AOC2TB5802	ND	12	95	78	1/2/03
A1905-30A	AOC2TB57675	ND	13	89	88	1/2/03
QA/QC						
Method Blank						
MB-4963		ND	12		97	1/2/03
Lab Control Sample (% Recovery)						
LCS-4963		82			104	1/2/03
LCSD-4963		84			98	1/2/03

001754R
2 of 3

MITKEM CORPORATION

Analysis Report: Extractable Total Petroleum Hydrocarbons

Client: HRP Associates
Analysis: CT-ETPH, 3/99
Matrix: Soil

Concentration in: mg/kg, dry weight basis
Date Extracted: 12/31/02

Lab ID	Client ID	Result	Reporting Limit	% Solid	p-Terphenyl Surrogate Recovery %	Analysis Date
A1905-28A	AOC2TB24	ND	13	91	89	1/2/03
A1905-29A	AOC2TB5802	ND	12	95	78	1/2/03
A1905-30A	AOC2TB57675	ND	13	89	88	1/2/03

QA/QC

Method Blank						
MB-4963		ND	12		97	1/2/03
Lab Control Sample (% Recovery)						
LCS-4963		82			104	1/2/03
LCSD-4963		84			96	1/2/03

001754

A1905-ETPH

ETPH-AQ

Sample	A1905 Total Area	ETPH SVOA IS	AQUEOUS Inter.area	Surr.area	Mean RRF	IC (ug/ml)	SV (L)	FV (ml)	Dilu.	TPH (mg/L)	RL (mg/L)	Surr.(%)
MB-4924	138,412,820	69,097,747	14,890,664	15,248,176	0.9159 F	40.00	1	1	1	0.12	0.35	96
A1905-14C	223,906,411	102,442,588	25,754,657	19,919,757	0.9061 D	40.00	1	1	1	0.13	0.35	71
A1905-16D	222,057,615	69,097,747	15,688,119	14,561,354	0.9159 F	40.00	0.5	0.3	1	0.32	0.35	80
A1905-18D	491,877,090	102,442,588	32,534,755	24,405,874	0.9061 D	40.00	0.5	0.3	1	0.45	0.35	69

Sample	A1905 Total Area	ETPH SVOA IS	AQUEOUS Inter.area	Surr.area	Mean RRF	IC (ug/ml)	SV (L)	FV (ml)	Dilu.	TPH (mg/L)	RL (mg/L)	Surr.(%)
MB-4913	218,650,465	102,442,588	26,098,046	24,898,380	0.9061 D	40.00	1	1	1	0.11	0.35	88
A1905-25B	150,781,821	69,097,747	15,576,958	15,712,992	0.9159 F	40.00	1	1	1	0.14	0.35	92

TPH (mg/L) = [Total Area - SVOA Internal avg - TPH Internal - Surr. Area]* TPH IC(ug/ml)* FV(ml)* Dilu.
(Inter. Area* RRF* Sam.(L)* 1000)

SVOA Internal Standard Averages

Fronts 69097747
Rears 102442588

001755

ETPH-SOIL

Sample	A1905 total area	Inter area	surr area	SW (g)	%solid	RRF	IC ug/ml	FV (ml)	Dil.	TPH (mg/kg)	RL mg/kg	srr%
MB-4963	83,224,697	30,283,514	32,133,530	30.0	100	0.9061 D	40	1	1	0	12	97
A1905-28A	71,035,850	15,810,005	15,387,900	30.4	91	0.9159 F	40	1	1	4	13	89
A1905-29A	119,190,519	28,944,887	24,626,621	30.6	95	0.9061 D	40	1	1	3	12	78
A1905-30A	61,726,706	14,502,519	13,982,531	30.3	89	0.9159 F	40	1	1	4	13	88

TPH (mg/kg) = [Total area - Inter. Area - Surr. Area]* IC (ug/ml)* FV (ml)* Dilu.* 100
Inter. Area* RRF* SW(g)* %solid

001756

```
                          Quantitation Report   (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\DEC02\021231\SEC\F1C6706.D   Vial: 9
Acq On    : 12-31-02 22:29:26 PM                           Operator:
Sample    : A1905-14C                                      Inst     : F1
Misc      :                                                Multiplr: 1.00
IntFile   : AUTOINT1.E
Quant Time: Jan  3 12:08 19103   Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title        : TPH-GC, Fuel ID, DRO
Last Update  : Fri Jan 03 10:12:41 2003
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj.  : 1
Signal Phase : DB-5MS
Signal Info  : 0.25

     Compound                          R.T.      Response    Conc Units
-------------------------------------------------------------------------

 Internal Standards
1) I    5a-Androstane                  14.47     25764657    40.000 ng

 System Monitoring Compounds
2) S    para-Terphenyl                 15.06     19919757    35.446 ng
Spiked Amount    50.000                      Recovery   =    70.89%

 Target Compounds
 3)       Nonane C9                     0.00            0    N.D.  ng
 4)       DECANE C10                    0.00            0    N.D.  ng   d
 5)       DODECANE C12                  0.00            0    N.D.  ng   d
 6)       TETRADECANE C14               0.00            0    N.D.  ng   d
 7)       HEXADECANE C 16               0.00            0    N.D.  ng   d
 8)       OCTADECANE C18                0.00            0    N.D.  ng   d
 9)       NONADECANE C19                0.00            0    N.D.  ng   d
10)       EICOSANE C20                  0.00            0    N.D.  ng   d
11)       DOCOSANE C22                  0.00            0    N.D.  ng   d
12)       TETRACOSANE C24               0.00            0    N.D.  ng   d
13)       HEXACOSANE C26                0.00            0    N.D.  ng   d
14)       OCTACOSANE C28                0.00            0    N.D.  ng   d
15)       TRIACONTANE C30               0.00            0    N.D.  ng   d
16)       HEXATRIACONTANE C36           0.00            0    N.D.  ng   d
```

BMF
01/03/03

001757

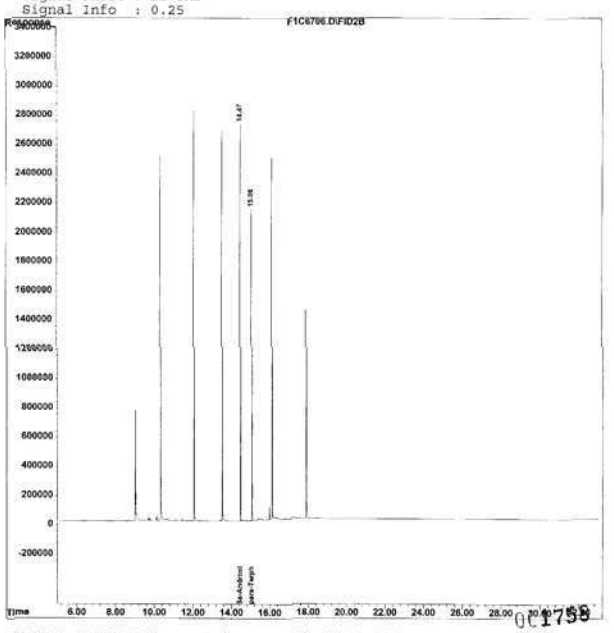
```
(f)=RT Delta > 1/2 Window                                 (m)=manual int.
F1C6706.D  ET0909R.M     Fri Jan 03 12:08:52 2003        HPDOS9      Page 1
```

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6706.D Vial: 9
Acq On : 12-31-02 22:29:26 PM Operator:
Sample : A1905-14C Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 12:08 19103 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:12:41 2003
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



Area Percent Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6706.D Vial: 9
Acq On : 12-31-02 22:29:26 PM Operator:
Sample : A1905-14C Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

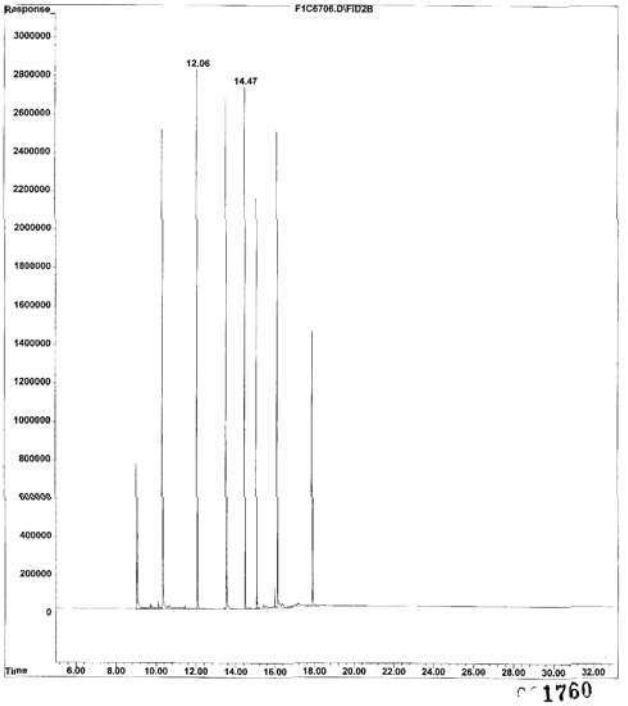
Signal : F1C6706.D\FID2B

peak #	R.T. min	Start min	End min	PK	peak height	peak area	peak % max.	% of total
1	12.055	8.982	14.053	M	2807793	110902747	98.14%	49.531%
2	14.474	14.397	18.651	M	2717178	113003665	100.00%	50.469%

Sum of corrected areas: 223906411

F1C6706.D ET0909R.M Fri Jan 03 12:09:35 2003 HPDOS9

File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6706.D
Operator :
Acquired : 12-31-02 22:29:26 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1905-14C
Misc Info :
Vial Number: 9



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6707.D Vial: 10
Acq On : 12-31-02 22:29:26 PM Operator:
Sample : A1905-16 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 12:40 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units	
	Internal Standards				
1) I	5a-Androstane	15.12	16688119	40.000 ng	
	System Monitoring Compounds				
2) S	para-Terphenyl	15.68	14561354	40.014 ng	
Spiked Amount	50.000	Recovery	=	80.03%	
	Target Compounds				
3)	Nonane C9	0.00	0	N.D. ng	
4)	DECANE C10	0.00	0	N.D. ng	d
5)	DODECANE C12	0.00	0	N.D. ng	d
6)	TETRADECANE C14	0.00	0	N.D. ng	d
7)	HEXADECANE C 16	0.00	0	N.D. ng	d
8)	OCTADECANE C18	0.00	0	N.D. ng	d
9)	NONADECANE C19	0.00	0	N.D. ng	d
10)	EICOSANE C20	0.00	0	N.D. ng	d
11)	DOCOSANE C22	0.00	0	N.D. ng	d
12)	TETRACOSANE C24	0.00	0	N.D. ng	d
13)	HEXACOSANE C26	0.00	0	N.D. ng	d
14)	OCTACOSANE C28	0.00	0	N.D. ng	d
15)	TRIACONTANE C30	0.00	0	N.D. ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D. ng	d

BMK
01/03/03

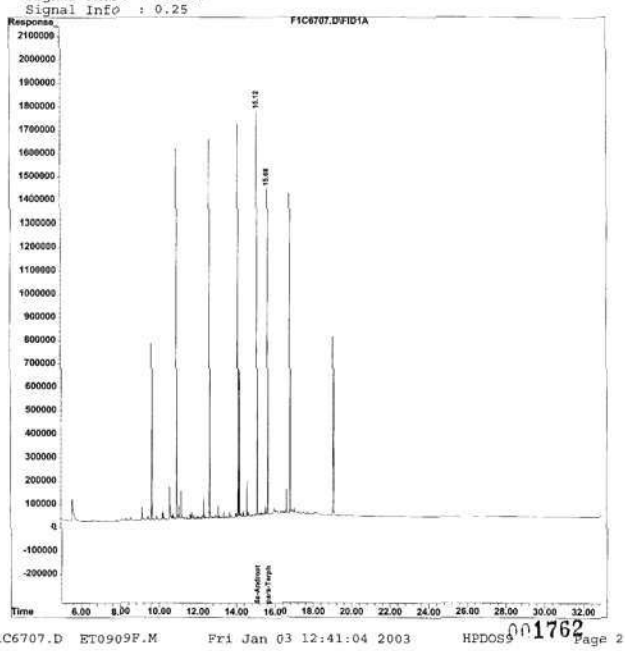
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6707.D Vial: 10
Acq On : 12-31-02 22:29:26 PM Operator:
Sample : A1905-16 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 12:40 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001762

Area Percent Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6707.D Vial: 10
Acq On : 12-31-02 22:29:26 PM Operator:
Sample : A1905-16 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6707.D\FID1A

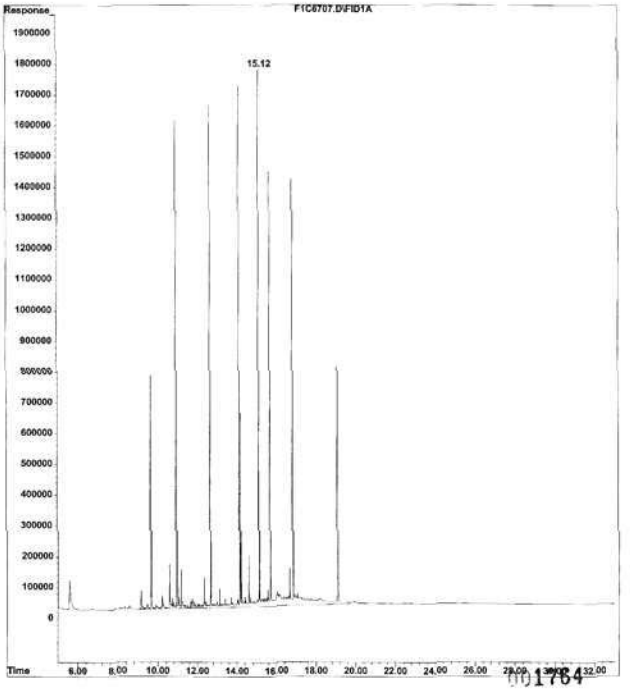
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.119	9.015	20.567	M1747478		222057616	100.00%	100.000%

Sum of corrected areas: 222057616

F1C6707.D ET0909F.M Fri Jan 03 12:41:24 2003 HPDOS9

001763

File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6707.D
Operator :
Acquired : 12-31-02 22:29:26 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1905-16
Misc Info :
Vial Number: 10



001764

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\DEC02\021231\SEC\F1C6708.D Vial: 11
Acq On : 12-31-02 23:11:57 PM Operator:
Sample : A1905-18D Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 12:10 19103 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:12:41 2003
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.48	32634755	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.06	24405874	34.392	ng	
Spiked Amount	50.000	Recovery	=	68.78%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

BMF
01/03/03

001765

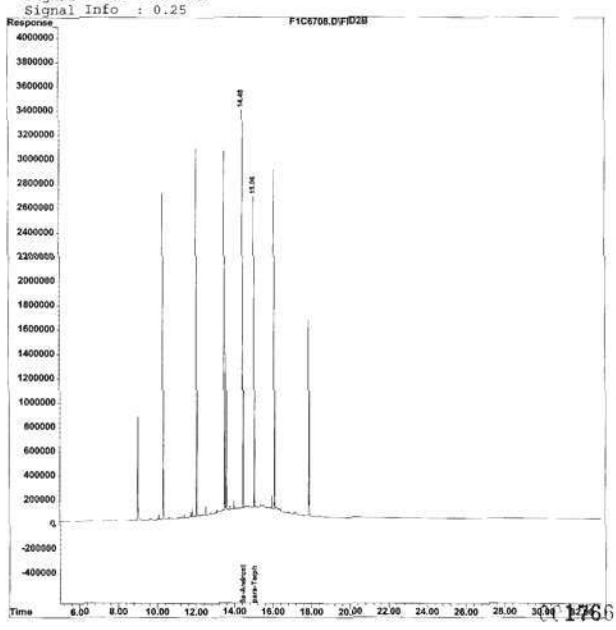
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6708.D ET0909R.M Fri Jan 03 12:11:14 2003 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6708.D Vial: 11
Acq On : 12-31-02 23:11:57 PM Operator:
Sample : A1905-18D Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 12:10 19103 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:12:41 2003
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6708.D ET0909R.M Fri Jan 03 12:11:21 2003 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6708.D Vial: 11
Acq On : 12-31-02 23:11:57 PM Operator:
Sample : A1905-18D Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

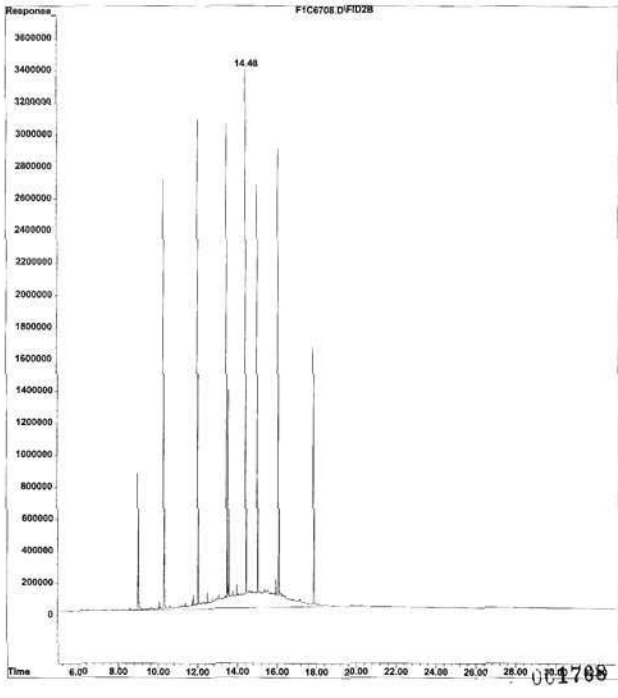
Signal : F1C6708.D\FID2B

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.476	8.488	19.090	M	3360461	491677099	100.00%	100.000%

Sum of corrected areas: 491677099

F1C6708.D ET0909R.M Fri Jan 03 12:11:45 2003 HPDOS9

File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6708.D
Operator :
Acquired : 12-31-02 23:11:57 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1905-18D
Misc Info :
Vial Number: 11



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6709.D Vial: 12
Acq On : 12-31-02 23:11:57 PM Operator:
Sample : A1905-26D Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 12:42 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units	
	Internal Standards				
1) I	5a-Androstane	15.12	15576958	40.000 ng	
	System Monitoring Compounds				
2) S	para-Terphenyl	15.68	15712892	46.258 ng	
Spiked Amount	50.000	Recovery	=	92.52%	
	Target Compounds				
3)	Nonane C9	0.00	0	N.D. ng	
4)	DECANE C10	0.00	0	N.D. ng	d
5)	DODECANE C12	0.00	0	N.D. ng	d
6)	TETRADECANE C14	0.00	0	N.D. ng	d
7)	HEXADECANE C 16	0.00	0	N.D. ng	d
8)	OCTADECANE C18	0.00	0	N.D. ng	d
9)	NONADECANE C19	0.00	0	N.D. ng	d
10)	EICOSANE C20	0.00	0	N.D. ng	d
11)	DOCOSANE C22	0.00	0	N.D. ng	d
12)	TETRACOSANE C24	0.00	0	N.D. ng	d
13)	HEXACOSANE C26	0.00	0	N.D. ng	d
14)	OCTACOSANE C28	0.00	0	N.D. ng	d
15)	TRIACONTANE C30	0.00	0	N.D. ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D. ng	d

BMF
01/03/03

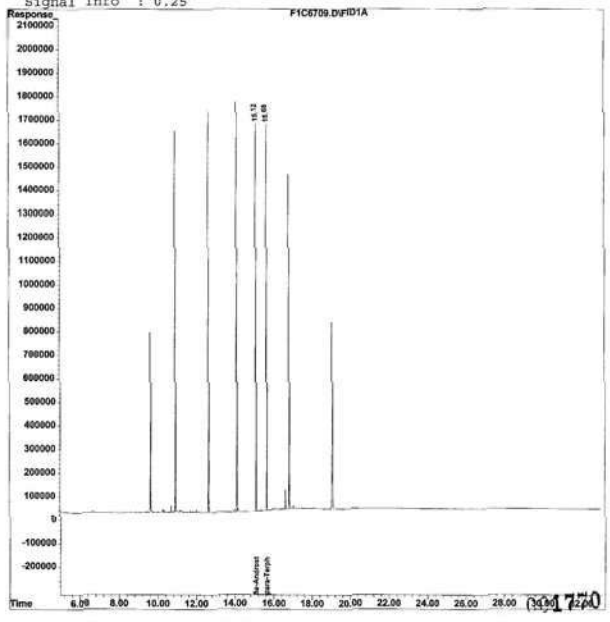
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6709.D ET0909F.M Fri Jan 03 12:42:27 2003 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6709.D Vial: 12
Acq On : 12-31-02 23:11:57 PM Operator:
Sample : A1905-26D Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 12:42 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001770

Area Percent Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6709.D Vial: 12
Acq On : 12-31-02 23:11:57 PM Operator:
Sample : A1905-26D Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6709.D\FID1A

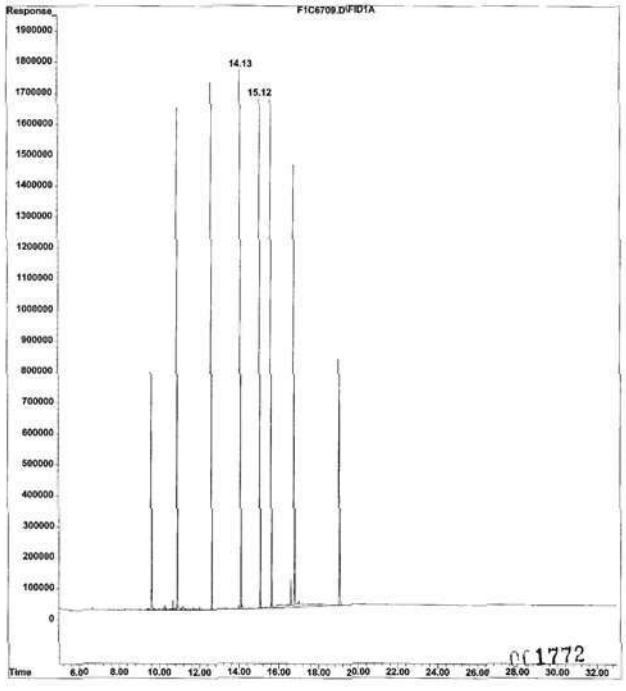
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.133	9.094	14.525	M1	742038	69408976	85.38%	46.057%
2	15.118	14.658	19.231	M1	649329	81292845	100.00%	53.943%

Sum of corrected areas: 150701821

F1C6709.D ET0909F.M Fri Jan 03 12:42:59 2003 HPDOS9

001771

File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6709.D
Operator :
Acquired : 12-31-02 23:11:57 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1905-26D
Misc Info :
Vial Number: 12



001772

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\JAN03\030102\F1C6731.D Vial: 10
Acq On : 1-2-03 20:15:39 PM Operator:
Sample : A1905-28A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 10:18 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	15.11	15810095	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.67	15387909	44.633	ng	
Spiked Amount	50.000		Recovery =	89.27%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	
14)	OCTACOSANE C28	0.00	0	N.D.	ng	
15)	TRIACONTANE C30	0.00	0	N.D.	ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

BMF
01/03/03

001773

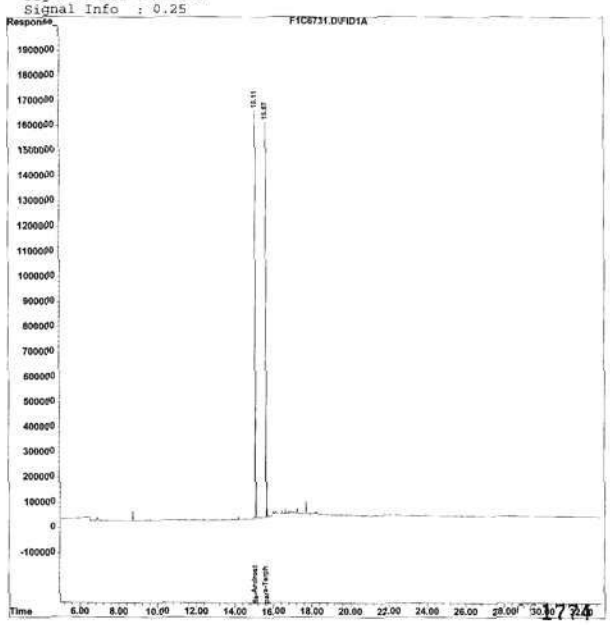
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JAN03\030102\F1C6731.D Vial: 10
Acq On : 1-2-03 20:15:39 PM Operator:
Sample : A1905-28A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 10:18 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



Area Percent Report

Data File : C:\HPCHEM\1\DATA\JAN03\030102\F1C6731.D Vial: 10
Acq On : 1-2-03 20:15:39 PM Operator:
Sample : A1905-28A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6731.D\FID1A

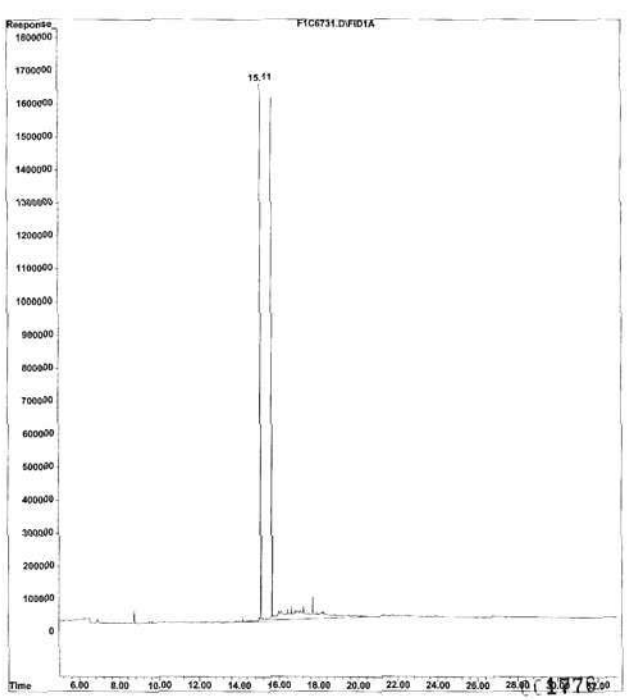
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.115	13.102	20.553	M	1629006	71035850	100.00%	100.000%

Sum of corrected areas: 71035850

F1C6731.D ET0909F.M Fri Jan 03 10:19:44 2003 HPDOS9

00 1775

File : C:\HPCHEM\1\DATA\JAN03\030102\F1C6731.D
Operator :
Acquired : 1-2-03 20:15:39 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1905-28A
Misc Info :
Vial Number: 10



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\JAN03\030102\SEC\F1C6732.D Vial: 11
Acq On : 1-2-03 21:01:43 PM Operator:
Sample : A1905-29A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 10:14 19103 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:12:41 2003
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units	
	Internal Standards				
1) I	5a-Androstane	14.47	28944887	40.000 ng	
	System Monitoring Compounds				
2) S	para-Terphenyl	15.06	24626621	39.007 ng	
Spiked Amount	50.000	Recovery	=	78.01%	
	Target Compounds				
3)	Nonane C9	0.00	0	N.D. ng	
4)	DECANE C10	0.00	0	N.D. ng	
5)	DODECANE C12	0.00	0	N.D. ng	
6)	TETRADECANE C14	0.00	0	N.D. ng	
7)	HEXADECANE C 16	0.00	0	N.D. ng	
8)	OCTADECANE C18	0.00	0	N.D. ng	d
9)	NONADECANE C19	0.00	0	N.D. ng	d
10)	EICOSANE C20	0.00	0	N.D. ng	d
11)	DOCOSANE C22	0.00	0	N.D. ng	d
12)	TETRACOSANE C24	0.00	0	N.D. ng	d
13)	HEXACOSANE C26	0.00	0	N.D. ng	d
14)	OCTACOSANE C28	0.00	0	N.D. ng	d
15)	TRIACONTANE C30	0.00	0	N.D. ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D. ng	

EDF
01/03/03

00 1777

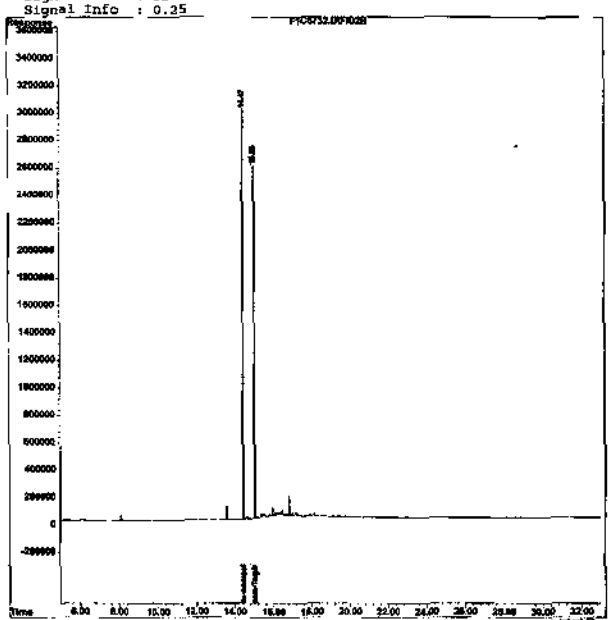
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6732.D ET0909R.M Fri Jan 03 10:15:07 2003 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JAN03\030102.SEC\F1C6732.D Vial: 11
Acq On : 1-2-03 21:01:43 PM Operator:
Sample : A1905-29A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 10:14 19103 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:12:41 2003
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6732.D ET0909R.M Fri Jan 03 10:15:15 2003 HPDOS9 Page 2

001778

Area Percent Report

Data File : C:\HPCHEM\1\DATA\JAN03\030102.SEC\F1C6732.D Vial: 11
Acq On : 1-2-03 21:01:43 PM Operator:
Sample : A1905-29A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6732.D\FID2B

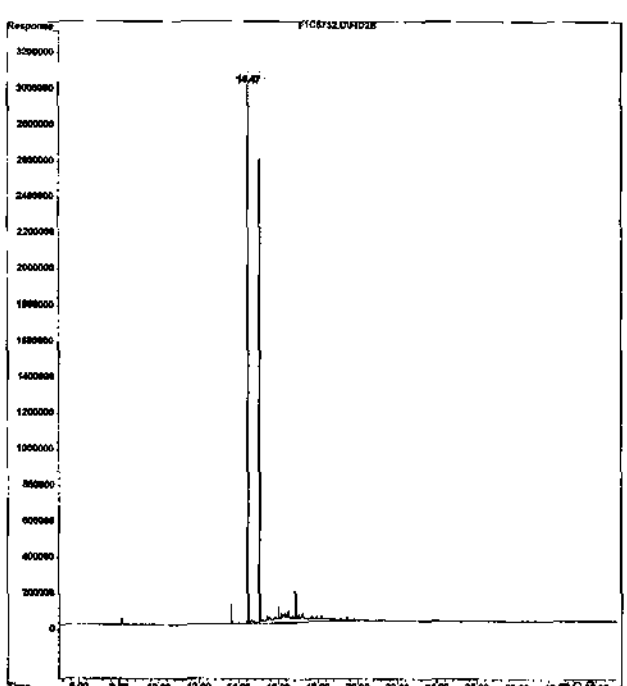
peak #	R.T. min	Start min	End min	PK TY	peak Height	peak area	peak % max.	% of total
1	14.469	13.522	20.067	M	2988826	119190519	100.00%	100.000%

Sum of corrected areas: 119190519

F1C6732.D ET0909R.M Fri Jan 03 10:15:36 2003 HPDOS9

001779

File : C:\HPCHEM\1\DATA\JAN03\030102.SEC\F1C6732.D
Operator :
Acquired : 1-2-03 21:01:43 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1905-29A
Misc Info :
Vial Number: 11



001780

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\JAN03\030102\F1C6733.D Vial: 12
Acq On : 1-2-03 21:01:43 PM Operator:
Sample : A1905-30 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 10:20 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units	
	Internal Standards				
1) I	5a-Androstane	15.11	14502519	40.000 ng	
	System Monitoring Compounds				
2) S	para-Terphenyl	15.67	13962531	44.150 ng	
Spiked Amount	50.000	Recovery	=	88.30%	
	Target Compounds				
3)	Nonane C9	0.00	0	N.D. ng	
4)	DECANE C10	0.00	0	N.D. ng	
5)	DODECANE C12	0.00	0	N.D. ng	
6)	TETRADECANE C14	0.00	0	N.D. ng	
7)	HEXADECANE C 16	0.00	0	N.D. ng	
8)	OCTADECANE C18	0.00	0	N.D. ng	
9)	NONADECANE C19	0.00	0	N.D. ng	
10)	EICOSANE C20	0.00	0	N.D. ng	d
11)	DOCOSANE C22	0.00	0	N.D. ng	d
12)	TETRACOSANE C24	0.00	0	N.D. ng	d
13)	HEXACOSANE C26	0.00	0	N.D. ng	
14)	OCTACOSANE C28	0.00	0	N.D. ng	
15)	TRIACONTANE C30	0.00	0	N.D. ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D. ng	

BNF
01/03/05

001781

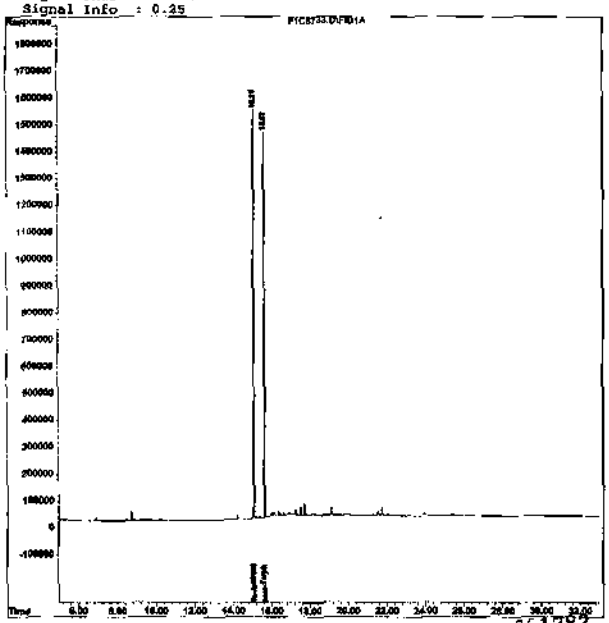
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6733.D ET0909F.M Fri Jan 03 10:21:06 2003 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JAN03\030102\F1C6733.D Vial: 12
Acq On : 1-2-03 21:01:43 PM Operator:
Sample : A1905-30 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 10:20 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



Area Percent Report

Data File : C:\HPCHEM\1\DATA\JAN03\030102\F1C6733.D Vial: 12
Acq On : 1-2-03 21:01:43 PM Operator:
Sample : A1905-30 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

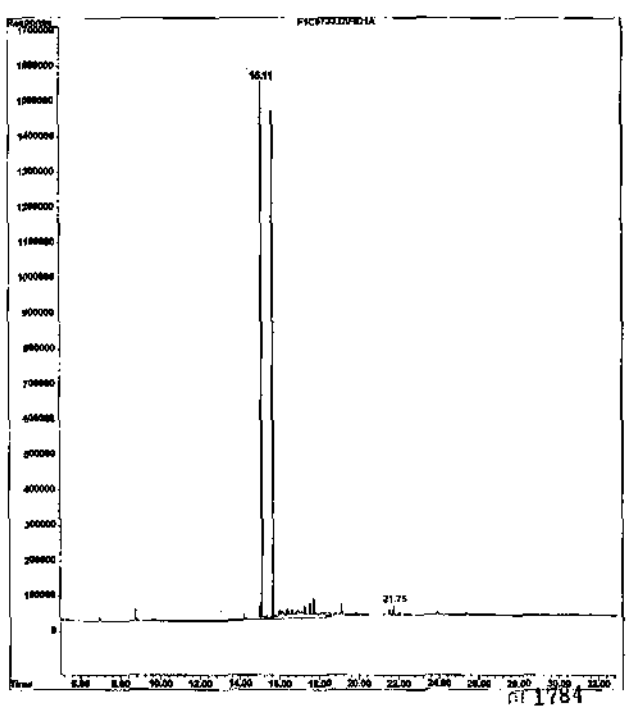
Signal : F1C6733.D\FID1A

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	15.113	14.824	20.551	M	1523272	59520298	100.00%	96.426%
2	21.754	21.242	22.726	M	27948	2206408	3.71%	3.574%

Sum of corrected areas: 61726706

F1C6733.D ET0909F.M Fri Jan 03 10:21:46 2003 HPDOS9

File : C:\HPCHEM\1\DATA\JAN03\030102\F1C6733.D
Operator :
Acquired : 1-2-03 21:01:43 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: A1905-30
Misc Info :
Vial Number: 12



front column Response Factors ETPH—09/09/02

Conc. (ug/ml)	Level A 5	Level 1 25	Level 2 50	Level 3 100	Level 4 200	Level 5 400
5a-Androstane	18729008	21758792	21228740	22325297	22512065	22689086
para-Terphenyl	2126519	11399419	23160835	47569415	100136188	197911162
Nonane C9	2307706	12470286	24635479	49752997	103272360	203189778
Decane C10	2318985	12530578	24739863	49983856	103897356	204501080
Dodecane C12	2342797	12622386	24901267	50389614	104909086	206409340
Tetradecane C14	2383857	12838505	25322950	51253459	106842070	210210099
Hexadecane C16	2354478	12671399	25054648	50745807	105640458	208457446
Octadecane C18	2324985	12504246	24885796	50493268	105037620	207977714
Nonadecane C19	2326955	12453958	24822467	50438467	105685323	208195532
Eicosane C20	2301585	12294365	24546534	49917193	104780770	206742689
Docosane C22	2259453	12352969	24637719	50052964	105260290	208817055
Tetracosane C24	2259453	11993302	24040109	48937307	103187088	205650806
Hexacosane C26	2259694	12071721	24180081	49253482	103917131	206869534
Octacosane C28	2216095	11859172	23760494	48428236	102388747	203958038
Triacontane C30	2167932	11620827	23375159	47748791	101350833	202421732
Hexatriacontane C36	2037541	10520283	21272549	43965335	94636773	189476742
RRF of C9-C36	0.9721	0.8971	0.8157	0.8848	0.9212	0.9044

Mean= 0.9159 Std.Deve 0.0305 RSD(%)= 3.3264

Response Factor Report F1

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:45:22 2002

Calibration Files
CON1 =F1C5085.D CON2 =F1C5087.D CON3 =F1C5089.D
CON4 =F1C5091.D CON5 =F1C5093.D CONA =F1C5083.D

	Compound	CON1	CON2	CON3	CON4	CON5	CONA	Avg		%RSD
1)	I 5a-Androstane	ISTD								
2)	S para-Terphenyl	0.838	0.873	0.852	0.890	0.872	0.908	0.872	0	2.88
3)	Nonane C9	0.917	0.928	0.891	0.917	0.896	0.986	0.923	0	3.69
4)	DECANE C10	0.921	0.932	0.896	0.923	0.901	0.991	0.927	0	3.66
5)	DODECANE C12	0.928	0.938	0.903	0.932	0.910	1.001	0.935	0	3.72
6)	TETRADECANE C14	0.944	0.954	0.918	0.949	0.926	1.018	0.952	0	3.71
7)	HEXADECANE C 16	0.932	0.944	0.909	0.941	0.919	1.006	0.942	0	3.61
8)	OCTADECANE C18	0.919	0.938	0.905	0.938	0.917	0.993	0.935	0	3.35
9)	NONADECANE C19	0.916	0.935	0.904	0.939	0.918	0.994	0.934	0	3.41
10)	EICOSANE C20	0.904	0.925	0.894	0.931	0.911	0.983	0.925	0	3.41
11)	DOCOSANE C22	0.908	0.928	0.897	0.935	0.920	0.965	0.926	0	2.56
12)	TETRACOSANE C24	0.882	0.906	0.877	0.917	0.906	0.965	0.909	0	3.48
13)	HEXACOSANE C26	0.888	0.911	0.882	0.923	0.912	0.974	0.915	0	3.58
14)	OCTACOSANE C28	0.872	0.895	0.868	0.910	0.899	0.947	0.899	0	3.22
15)	TRIACONTANE C30	0.855	0.881	0.855	0.900	0.892	0.926	0.885	0	3.11
16)	HEXATRIACONTANE C36	0.774	0.802	0.788	0.841	0.835	0.870	0.818	0	4.47

(#) = Out of Range
ET0909F.M Mon Sep 09 14:47:26 2002 HPDOS9 001786 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5083.D Vial: 1
Acq On : 9-6-02 17:41:05 PM Operator:
Sample : ETPH L1A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:19 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1)	I 5a-Androstane	15.41	18729008	40.000 ng
	System Monitoring Compounds			
2)	S para-Terphenyl	15.96	2126519	4.481 ng
	Spiked Amount 50.000		Recovery =	8.96%
	Target Compounds			
3)	Nonane C9	8.77	2307706	5.511 ng
4)	DECANE C10	9.69	2318985	5.376 ng
5)	DODECANE C12	11.09	2342797	5.406 ng
6)	TETRADECANE C14	12.24	2283657	5.379 ng
7)	HEXADECANE C 16	13.24	2254478	5.226 ng
8)	OCTADECANE C18	14.14	2324995	5.025 ng
9)	NONADECANE C19	14.56	2325955	5.021 ng
10)	EICOSANE C20	14.96	2301585	4.946 ng
11)	DOCOSANE C22	15.70	2259453	4.791 ng
12)	TETRACOSANE C24	16.41	2259694	4.837 ng
13)	HEXACOSANE C26	17.20	2280254	4.836 ng
14)	OCTACOSANE C28	18.17	2218095	4.753 ng
15)	TRIACONTANE C30	19.45f	2167932	4.700 ng
16)	HEXATRIACONTANE C36	27.36	2037541	4.959 ng

m3 BMF 9/9/02

BMF 9/9/02

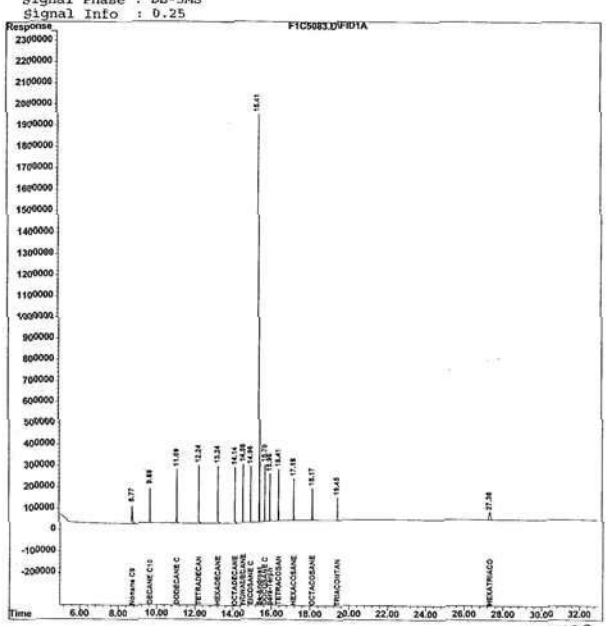
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5083.D ET0717F.M Mon Sep 09 14:19:26 2002 HPDOS9 001787 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5083.D Vial: 1
Acq On : 9-6-02 17:41:05 PM Operator:
Sample : ETPH L1A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:19 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

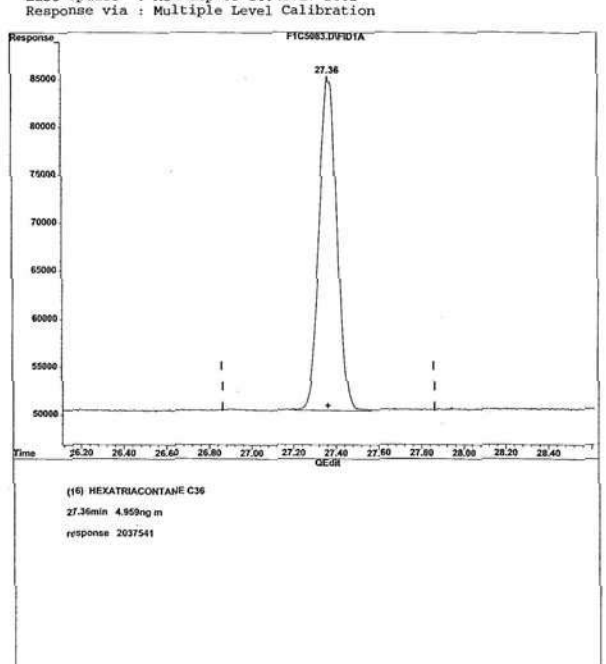


F1C5083.D ET0717F.M Mon Sep 09 14:19:32 2002 HPDOS9 001788 Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5083.D Vial: 1
Acq On : 9-6-02 17:41:05 PM Operator:
Sample : ETPH L1A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:18 19102 Quant Results File: ET0717F.RES

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Multiple Level Calibration



(+) = Expected Retention Time
F1C5083.D ET0717F.M Mon Sep 09 14:19:07 2002 HPDOS9 001789

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5085.D Vial: 2
Acq On : 9-6-02 18:22:35 PM Operator:
Sample : ETPH L1 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:20 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.42	21758792	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.96	11399419	20.678 ng
Spiked Amount	50.000	Recovery	=	41.36%
	Target Compounds			
3)	Nonane C9	8.77	12470286	25.634 ng
4)	DECANE C10	9.69	12530578	25.002 ng
5)	DODECANE C12	11.09	12622386	25.071 ng
6)	TETRADECANE C14	12.24	12838505	24.936 ng
7)	HEXADECANE C 16	13.24	12671399	24.208 ng
8)	OCTADECANE C18	14.14	12504246	23.260 ng
9)	NONADECANE C19	14.56	12453968	23.142 ng
10)	EICOSANE C20	14.96	12294365	22.739 ng
11)	DOCOSANE C22	15.70	12352989	22.548 ng
12)	TETRACOSANE C24	16.41	11993302	22.096 ng
13)	HEXACOSANE C26	17.20	12071721	22.037 ng
14)	OCTACOSANE C28	18.17	11859172	21.875 ng
15)	TRIACONTANE C30	19.46f	11620827	21.687 ng
16)	HEXATRIACONTANE C36	27.39	10520283	22.040 ng

emf 9/9/02

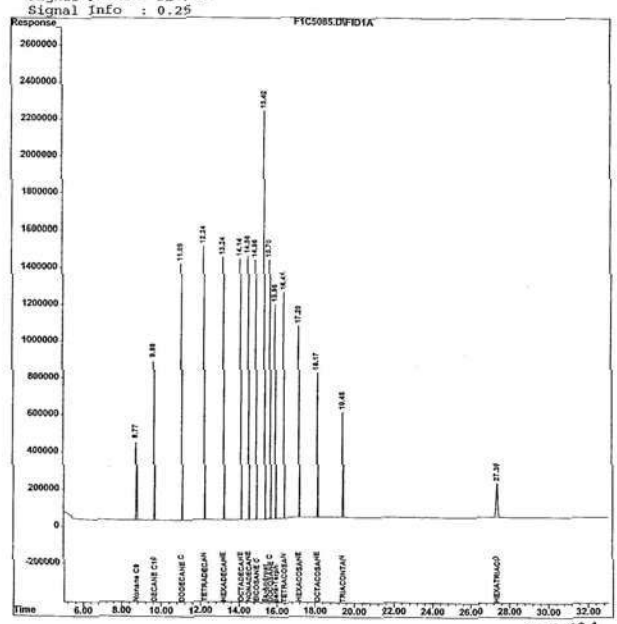
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5085.D ET0717F.M Mon Sep 09 14:21:20 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5085.D Vial: 2
Acq On : 9-6-02 18:22:35 PM Operator:
Sample : ETPH L1 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:20 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5085.D ET0717F.M Mon Sep 09 14:21:26 2002 HPDOS9 001791 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5087.D Vial: 3
Acq On : 9-6-02 19:04:39 PM Operator:
Sample : ETPH L2 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:22 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.42	21228740	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.97	23160835	43.061 ng
Spiked Amount	50.000	Recovery	=	86.12%
	Target Compounds			
3)	Nonane C9	8.78	24635479	51.906 ng
4)	DECANE C10	9.70	24739663	50.596 ng
5)	DODECANE C12	11.10	24901267	50.694 ng
6)	TETRADECANE C14	12.24	25322960	50.412 ng
7)	HEXADECANE C 16	13.25	25054648	49.060 ng
8)	OCTADECANE C18	14.15	24885796	47.448 ng
9)	NONADECANE C19	14.56	24822467	47.277 ng
10)	EICOSANE C20	14.96	24546534	46.534 ng
11)	DOCOSANE C22	15.71	24637719	46.094 ng
12)	TETRACOSANE C24	16.41	24040109	45.396 ng
13)	HEXACOSANE C26	17.20	24180081	45.243 ng
14)	OCTACOSANE C28	18.18	23760494	44.923 ng
15)	TRIACONTANE C30	19.46f	23375159	44.712 ng
16)	HEXATRIACONTANE C36	27.40	21272549	45.678 ng

emf 9/9/02

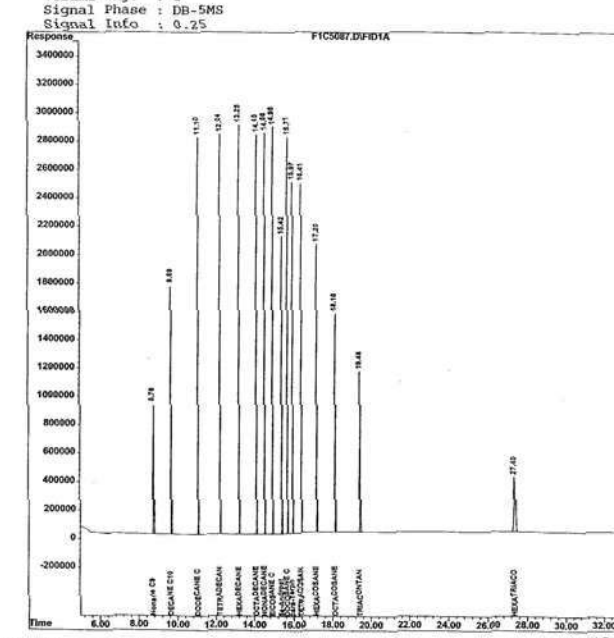
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5087.D ET0717F.M Mon Sep 09 14:22:46 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5087.D Vial: 3
Acq On : 9-6-02 19:04:39 PM Operator:
Sample : ETPH L2 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:22 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5087.D ET0717F.M Mon Sep 09 14:22:51 2002 HPDOS9 001792 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5089.D Vial: 4
Acq On : 9-6-02 19:46:54 PM Operator:
Sample : ETPH L3 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:23 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.42	22325297	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.97	47569415	84.098 ng
Spiked Amount	50.000	Recovery	=	168.20%
	Target Compounds			
3)	Nonane C9	8.78	49752997	99.679 ng
4)	DECANE C10	9.70	49983856	97.202 ng
5)	DODECANE C12	11.10	50389614	97.545 ng
6)	TETRADECANE C14	12.24	51253459	97.022 ng
7)	HEXADECANE C 16	13.25	50745807	94.486 ng
8)	OCTADECANE C18	14.15	50491246	91.540 ng
9)	NONADECANE C19	14.56	50438467	91.346 ng
10)	EICOSANE C20	14.96	49917193	89.983 ng
11)	DOCOSANE C22	15.71	50052964	89.042 ng
12)	TETRACOSANE C24	16.42	48937307	87.872 ng
13)	HEXACOSANE C26	17.21	49253482	87.631 ng
14)	OCTACOSANE C28	18.18	48428236	87.064 ng
15)	TRIACONTANE C30	19.47f	47746791	86.844 ng
16)	HEXATRIACONTANE C36	27.43	43985335	89.810 ng

BSF 9/9/02

001793

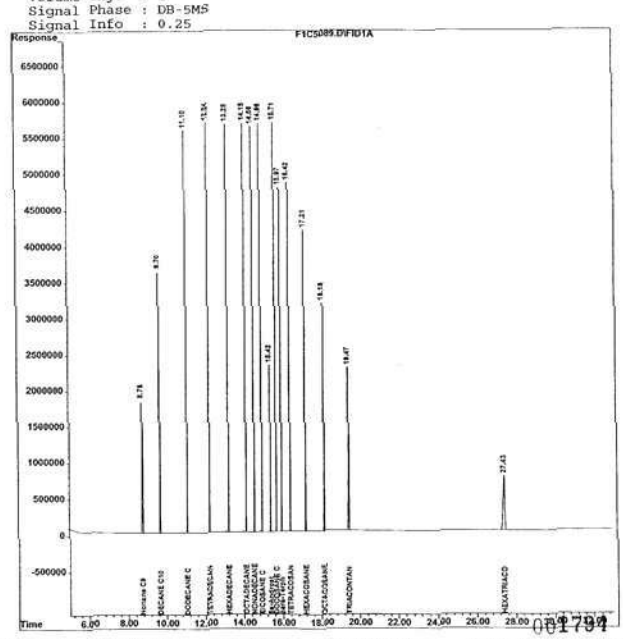
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5089.D ET0717F.M Mon Sep 09 14:24:51 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5089.D Vial: 4
Acq On : 9-6-02 19:46:54 PM Operator:
Sample : ETPH L3 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:23 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001794

F1C5089.D ET0717F.M Mon Sep 09 14:24:57 2002 HPDOS9 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5091.D Vial: 5
Acq On : 9-6-02 20:29:08 PM Operator:
Sample : ETPH L4 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:25 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.42	22512065	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.98	100136188	175.562 ng
Spiked Amount	50.000	Recovery	=	351.12%
	Target Compounds			
3)	Nonane C9	8.78	103272300	205.186 ng
4)	DECANE C10	9.70	103897356	200.370 ng
5)	DODECANE C12	11.10	104909086	201.400 ng
6)	TETRADECANE C14	12.25	105842070	200.572 ng
7)	HEXADECANE C 16	13.25	105940458	195.619 ng
8)	OCTADECANE C18	14.15	105637620	189.930 ng
9)	NONADECANE C19	14.57	105685223	189.813 ng
10)	EICOSANE C20	14.97	104780770	187.315 ng
11)	DOCOSANE C22	15.71	105260290	185.701 ng
12)	TETRACOSANE C24	16.42	103197088	183.764 ng
13)	HEXACOSANE C26	17.21	103917131	183.955 ng
14)	OCTACOSANE C28	18.19	102388747	182.547 ng
15)	TRIACONTANE C30	19.49f	101350833	182.813 ng
16)	HEXATRIACONTANE C36	27.47	94636773	191.629 ng

BSF 9/9/02

001795

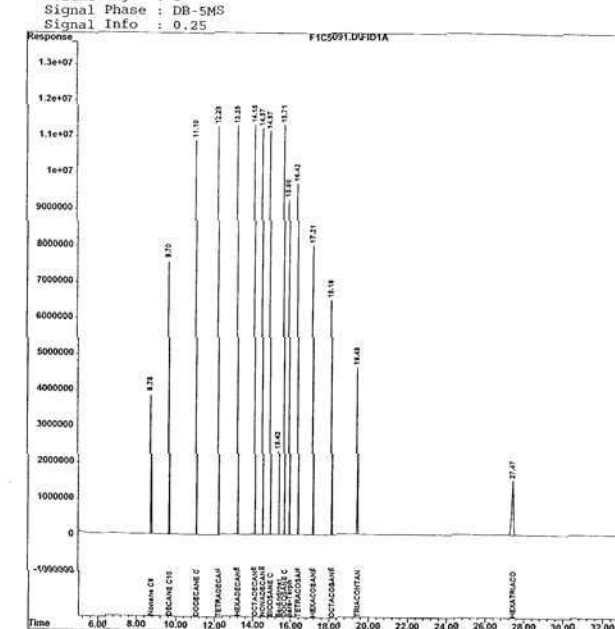
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5091.D ET0717F.M Mon Sep 09 14:26:04 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5091.D Vial: 5
Acq On : 9-6-02 20:29:08 PM Operator:
Sample : ETPH L4 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:25 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001796

F1C5091.D ET0717F.M Mon Sep 09 14:26:10 2002 HPDOS9 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5093.D Vial: 6
Acq On : 9-6-02 21:11:13 PM Operator:
Sample : ETPH L5 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:26 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.42	22689086	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.98	197911162	344.277 ng
Spiked Amount	50.000	Recovery	=	688.55%
	Target Compounds			
3)	Nonane C9	8.78	203189776	400.658 ng
4)	DECANE C10	9.70	204901080	391.311 ng
5)	DODECANE C12	11.11	206409340	393.165 ng
6)	TETRADECANE C14	12.25	210210099	391.544 ng
7)	HEXADECANE C 16	13.26	208457446	381.914 ng
8)	OCTADECANE C18	14.16	207977714	371.015 ng
9)	NONADECANE C19	14.57	208195532	371.005 ng
10)	EICOSANE C20	14.97	206742589	366.708 ng
11)	DOCOSANE C22	15.72	208817055	365.922 ng
12)	TETRACOSANE C24	16.43	205650806	363.347 ng
13)	HEXACOSANE C26	17.22	206869534	362.359 ng
14)	OCTACOSANE C28	18.20	203959038	360.797 ng
15)	TRIACONTANE C30	19.50f	202421732	362.372 ng
16)	HEXATRIACONTANE C36	27.54	185478842	380.679 ng

BNF 9/9/02

001797

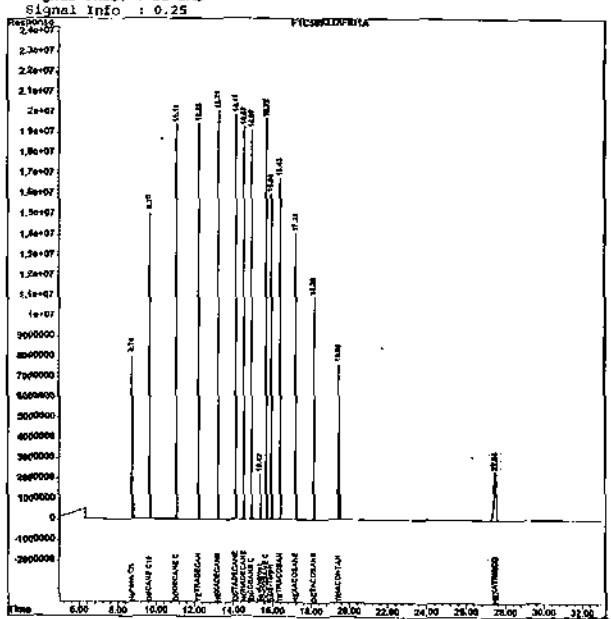
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C5093.D ET0717F.M Mon Sep 09 14:27:02 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906\F1C5093.D Vial: 6
Acq On : 9-6-02 21:11:13 PM Operator:
Sample : ETPH L5 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 14:26 19102 Quant Results File: ET0717F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 14:18:17 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001798

F1C5093.D ET0717F.M Mon Sep 09 14:27:08 2002 HPDOS9 Page 2

"SEC" in data file name.

rear column Response Factors ETPH---09/09/02

Conc. (ug/ml)	Level1A 5	Level 1 25	Level 2 50	Level 3 100	Level 4 200	Level 5 400
5a-Androstane	25563051	26329528	26660031	29289083	29719908	31290386
para-Terphenyl	2603070	15153647	31942530	63961147	134940592	277787178
Nonane C9	2352045	14777168	30874445	61822995	133727960	271580603
Decane C10	2630621	15240335	31456406	62554210	134920120	273956929
Dodecane C12	2719172	15345328	31692643	63257655	136373059	276821953
Tetradecane C14	2945168	16063852	32835555	64928716	136629830	281068448
Hexadecane C16	3102284	16220260	32851519	64671052	137364976	278822574
Octadecane C18	3160351	16398182	33110144	65056420	137654322	280210868
Nonadecane C19	3235332	16550647	33364712	65577031	138343382	282127227
Eicosane C20	3239072	16525991	33324703	65498267	137907858	281529249
Docosane C22	3385399	16987651	34137714	67054178	140322935	286651532
Tetracosane C24	3263007	16743798	33843677	66678277	139127565	285490399
Hexacosane C26	3327329	17111003	34671512	68250068	142012887	291759164
Octacosane C28	3276843	16948542	34478535	67906486	141384019	291209483
Triacontane C30	3166210	16533097	33779598	66731155	139472302	288753428
Hexatriacontane C36	2303152	11804775	24713224	49585338	107700040	233984579
RRF of C9-C36	0.9413	0.9007	0.9105	0.8775	0.9157	0.8913

Mean= 0.9061 Std.Dev= 0.0220 RSD(%)= 2.4245

001799

Response Factor Report F1

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 12:06:11 2002

Calibration Files
CON1 =F1C5086.D CON2 =F1C5088.D CON3 =F1C5090.D
CON4 =F1C5092.D CON5 =F1C5094.D CONA =F1C5084.D

	Compound	CON1	CON2	CON3	CON4	CON5	CONA	Avg	%RSD
		ISTD							
1) I	5a-Androstane								
2) S	para-Terphenyl	0.855	0.895	0.874	0.908	0.888	0.815	0.872	3.84
3)	Nonane C9	0.835	0.865	0.844	0.900	0.868	0.736	0.841	6.69
4)	DECANE C10	0.861	0.881	0.854	0.908	0.876	0.823	0.867	3.28
5)	DODECANE C12	0.867	0.885	0.864	0.918	0.885	0.851	0.878	2.66
6)	TETRADECANE C14	0.907	0.920	0.887	0.933	0.898	0.922	0.911	1.86
7)	HEXADECANE C 16	0.916	0.920	0.883	0.925	0.891	0.971	0.918	3.37
8)	OCTADECANE C18	0.926	0.927	0.888	0.926	0.896	0.989	0.925	3.84
9)	NONADECANE C19	0.935	0.935	0.896	0.931	0.902	1.013	0.935	4.46
10)	EICOSANE C20	0.933	0.933	0.895	0.928	0.900	1.014	0.934	4.57
11)	DOCOSANE C22	0.960	0.956	0.916	0.944	0.917	1.059	0.959	5.51
12)	TETRACOSANE C24	0.946	0.948	0.911	0.936	0.912	1.021	0.946	4.26
13)	HEXACOSANE C26	0.966	0.971	0.932	0.956	0.932	1.041	0.967	4.16
14)	OCTACOSANE C28	0.957	0.966	0.927	0.951	0.931	1.026	0.960	3.73
15)	TRIACONTANE C30	0.934	0.946	0.911	0.939	0.923	0.991	0.941	2.92
16)	HEXATRIACONTANE C36	0.667	0.692	0.677	0.725	0.748	0.721	0.705	4.43

(#) = Out of Range
ET0909R.M Mon Sep 09 12:07:46 2002 HPDOS9 Page 1

001800

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5084.D Vial: 1
Acq On : 9-6-02 18:22:35 PM Operator:
Sample : ETPH L1A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:19 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.88	25563951	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.46	2603070	4.156 ng
Spiked Amount	50.000	Recovery	=	8.31%
	Target Compounds			
3)	Nonane C9	8.22	2852045	4.469 ng
4)	DECANE C10	9.18	2830521	4.872 ng
5)	DODECANE C12	10.60	2719172	4.828 ng
6)	TETRADECANE C14	11.75	2945168	5.103 ng
7)	HEXADECANE C 16	12.74	3102284	5.196 ng
8)	OCTADECANE C18	13.63	3160351	5.156 ng
9)	NONADECANE C19	14.05	3235332	5.287 ng
10)	EICOSANE C20	14.44	3239072	5.245 ng
11)	DOCOSANE C22	15.18	3305399	5.365 ng
12)	TETRACOSANE C24	15.86	3263007	5.206 ng
13)	HEXACOSANE C26	16.53	3227329	5.203 ng
14)	OCTACOSANE C28	17.31	3278843	5.120 ng
15)	TRIACONTANE C30	18.31	3166210	4.936 ng
16)	HEXATRIACONTANE C36	24.21	2303152	3.738 ng m

BMF 9/9/02

BMF 9/9/02

001801

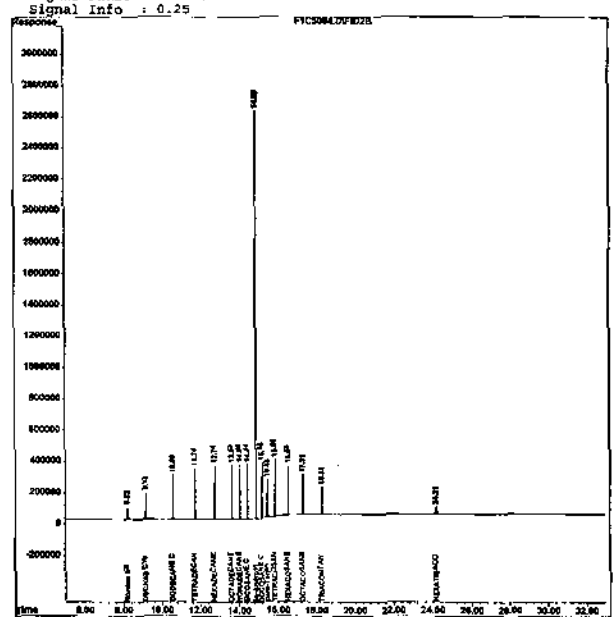
(f)=RT Delta > 1/2 Window (m)=manual Int.
F1C5084.D ET0717R.M Mon Sep 09 11:19:54 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5084.D Vial: 1
Acq On : 9-6-02 18:22:35 PM Operator:
Sample : ETPH L1A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:19 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



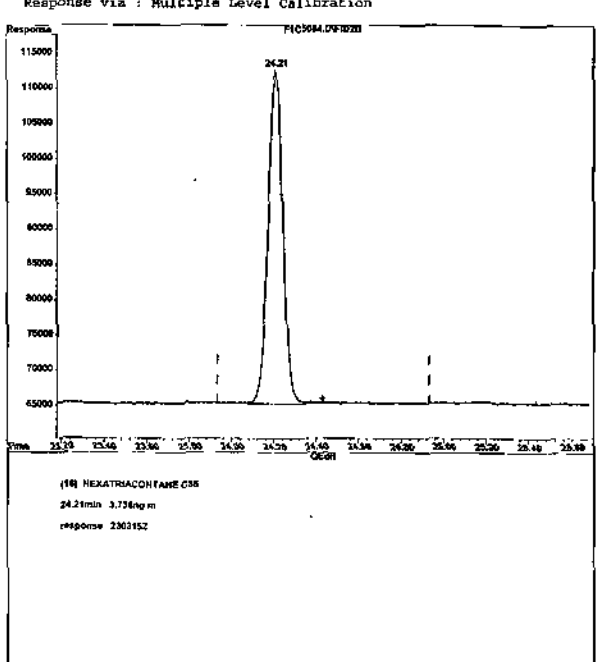
F1C5084.D ET0717R.M Mon Sep 09 11:20:04 2002 HPDOS9 Page 2

001802

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5084.D Vial: 1
Acq On : 9-6-02 18:22:35 PM Operator:
Sample : ETPH L1A Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:18 19102 Quant Results File: ET0717R.RES

Method : D:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Multiple Level Calibration



(+) = Expected Retention Time
F1C5084.D ET0717R.M Mon Sep 09 11:19:36 2002 HPDOS9

001803

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5086.D Vial: 2
Acq On : 9-6-02 19:04:39 PM Operator:
Sample : ETPH L1 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:20 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.89	28329528	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.46	15153647	21.833 ng
Spiked Amount	50.000	Recovery	=	43.67%
	Target Compounds			
3)	Nonane C9	8.22	14777168	25.334 ng
4)	DECANE C10	9.18	15249335	25.484 ng
5)	DODECANE C12	10.60	15145828	24.584 ng
6)	TETRADECANE C14	11.75	16063852	25.114 ng
7)	HEXADECANE C 16	12.74	16220260	24.515 ng
8)	OCTADECANE C18	13.64	16398182	24.138 ng
9)	NONADECANE C19	14.05	16550647	24.404 ng
10)	EICOSANE C20	14.44	16525991	24.148 ng
11)	DOCOSANE C22	15.18	16997651	24.304 ng
12)	TETRACOSANE C24	15.86	16743798	24.104 ng
13)	HEXACOSANE C26	16.54	17111063	24.146 ng
14)	OCTACOSANE C28	17.32	16948642	23.881 ng
15)	TRIACONTANE C30	18.32	16533097	23.258 ng
16)	HEXATRIACONTANE C36	24.22	11804775	17.290 ng

BMF 9/9/02

001804

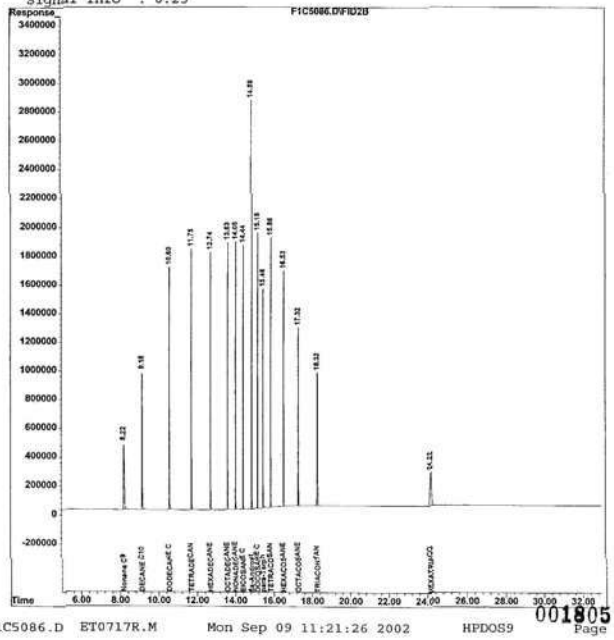
(f)=RT Delta > 1/2 Window (m)=manual Int.
F1C5086.D ET0717R.M Mon Sep 09 11:21:16 2002 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5086.D Vial: 2
Acq On : 9-6-02 19:04:39 PM Operator:
Sample : ETPH L1 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:20 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5088.D Vial: 3
Acq On : 9-6-02 19:46:55 PM Operator:
Sample : ETPH L2 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:21 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1)	I 5a-Androstane	14.89	28560031	40.000 ng
	System Monitoring Compounds			
2)	S para-Terphenyl	15.46	31942630	45.651 ng
Spiked Amount	50.000	Recovery	=	91.30%
	Target Compounds			
3)	Nonane C9	8.22	30874445	52.503 ng
4)	DECANE C10	9.18	31456406	52.144 ng
5)	DODECANE C12	10.60	31592843	50.204 ng
6)	TETRADECANE C14	11.75	32835555	50.920 ng
7)	HEXADECANE C 16	12.74	32861519	49.265 ng
8)	OCTADECANE C18	13.64	33110144	48.345 ng
9)	NONADECANE C19	14.05	33364712	48.800 ng
10)	EICOSANE C20	14.45	33324703	48.302 ng
11)	DOCOSANE C22	15.19	34137714	48.419 ng
12)	TETRACOSANE C24	15.87	33843677	48.327 ng
13)	HEXACOSANE C26	16.54	34671512	48.531 ng
14)	OCTACOSANE C28	17.32	34478533	48.189 ng
15)	TRIACONTANE C30	18.32	33779598	47.136 ng
16)	HEXATRIACONTANE C36	24.23	24713224	35.904 ng

BMF
9/9/02

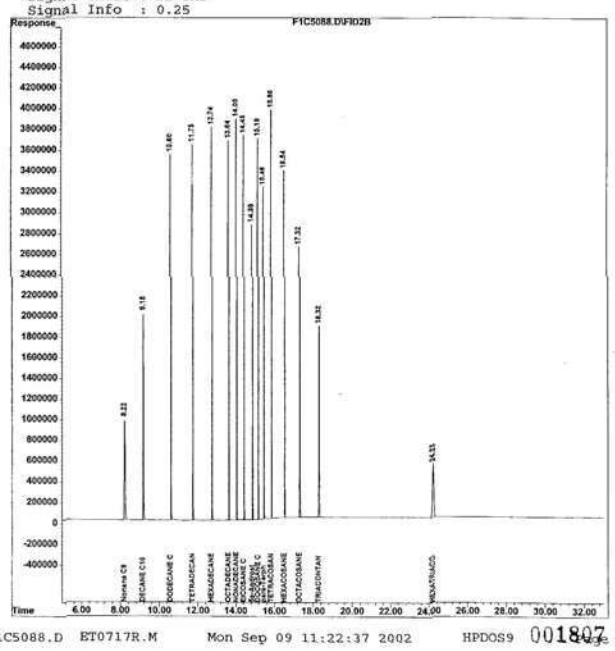
(f)=RT Delta > 1/2 Window (m)=manual

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5088.D Vial: 3
Acq On : 9-6-02 19:46:55 PM Operator:
Sample : ETPH L2 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:21 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5090.D Vial: 4
Acq On : 9-6-02 20:29:07 PM Operator:
Sample : ETPH L3 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:23 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1)	I 5a-Androstane	14.89	29289083	40.000 ng
	System Monitoring Compounds			
2)	S para-Terphenyl	15.47	63981147	89.163 ng
Spiked Amount	50.000	Recovery	=	178.33%
	Target Compounds			
3)	Nonane C9	8.22	61822995	102.516 ng
4)	DECANE C10	9.18	62554210	101.112 ng
5)	DODECANE C12	10.60	63257655	98.021 ng
6)	TETRADECANE C14	11.75	64926716	98.178 ng
7)	HEXADECANE C 16	12.75	64571052	94.540 ng
8)	OCTADECANE C18	13.64	65056420	92.627 ng
9)	NONADECANE C19	14.05	65577031	93.527 ng
10)	EICOSANE C20	14.45	65498287	92.573 ng
11)	DOCOSANE C22	15.19	67054178	92.738 ng
12)	TETRACOSANE C24	15.87	66578277	92.843 ng
13)	HEXACOSANE C26	16.54	68250068	93.154 ng
14)	OCTACOSANE C28	17.32	67908486	92.551 ng
15)	TRIACONTANE C30	18.33	66731155	90.799 ng
16)	HEXATRIACONTANE C36	24.24	49585338	70.246 ng

BMF
9/9/02

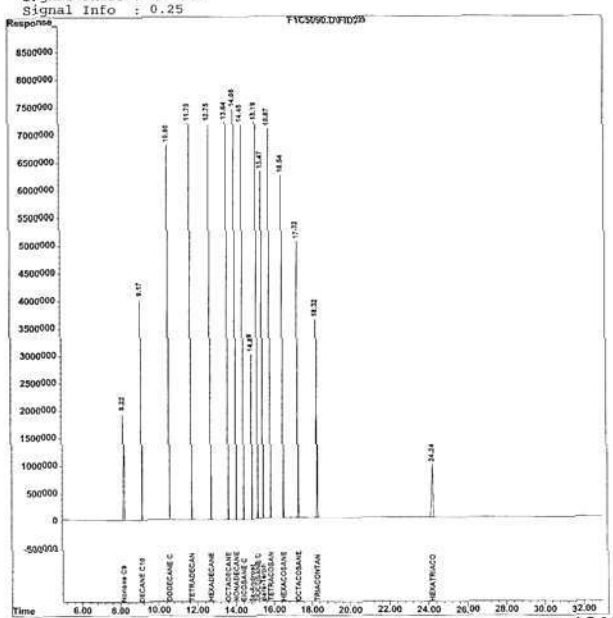
(f)=RT Delta > 1/2 Window (m)=manual

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5090.D Vial: 4
Acq On : 9-6-02 20:29:07 PM Operator:
Sample : ETPH L3 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:23 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5092.D Vial: 5
Acq On : 9-6-02 21:11:13 PM Operator:
Sample : ETPH L4 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:24 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5a-Androstane	14.88	29719908	40.000 ng
System Monitoring Compounds			
2) S para-Terphenyl	15.47	134940592	185.325 ng
Spiked Amount 50.000		Recovery =	370.65%
Target Compounds			
3) Nonane C9	8.22	133727960	218.535 ng
4) DECANE C10	9.18	134920120	214.922 ng
5) DODECANE C12	10.61	136373059	208.253 ng
6) TETRADECANE C14	11.75	138629830	206.589 ng
7) HEXADECANE C 16	12.75	137884976	197.927 ng
8) OCTADECANE C18	13.64	137654322	193.151 ng
9) NONADECANE C19	14.06	138343382	194.447 ng
10) EICOSANE C20	14.45	137907858	192.089 ng
11) DOCOSANE C22	15.19	140322935	191.257 ng
12) TETRACOSANE C24	15.87	139127565	190.913 ng
13) HEXACOSANE C26	16.55	142012987	191.022 ng
14) OCTACOSANE C28	17.33	141384019	189.895 ng
15) TRIACONTANE C30	18.34	139472302	187.024 ng
16) HEXATRIACONTANE C36	24.28	107700040	150.364 ng

BMF 9/9/02

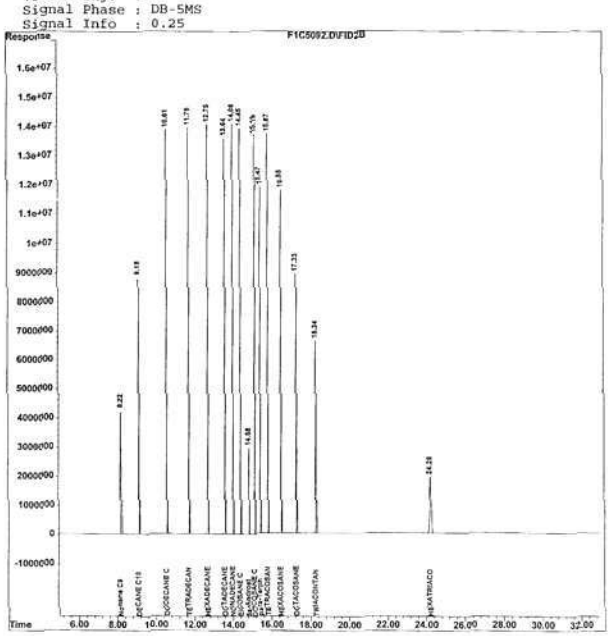
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5092.D Vial: 5
Acq On : 9-6-02 21:11:13 PM Operator:
Sample : ETPH L4 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:24 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5094.D Vial: 6
Acq On : 9-6-02 21:53:09 PM Operator:
Sample : ETPH L5 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:25 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5a-Androstane	14.89	31290386	40.000 ng
System Monitoring Compounds			
2) S para-Terphenyl	15.48	277787178	362.360 ng
Spiked Amount 50.000		Recovery =	724.72%
Target Compounds			
3) Nonane C9	8.22	271580803	421.535 ng
4) DECANE C10	9.18	273956929	414.498 ng
5) DODECANE C12	10.61	276821953	401.514 ng
6) TETRADECANE C14	11.76	281068448	397.832 ng
7) HEXADECANE C 16	12.76	278822574	381.531 ng
8) OCTADECANE C18	13.65	280210868	373.446 ng
9) NONADECANE C19	14.07	282121227	376.638 ng
10) EICOSANE C20	14.46	281629249	372.588 ng
11) DOCOSANE C22	15.20	286851532	371.349 ng
12) TETRACOSANE C24	15.88	285490399	372.092 ng
13) HEXACOSANE C26	16.56	291759164	372.749 ng
14) OCTACOSANE C28	17.35	291209463	371.497 ng
15) TRIACONTANE C30	18.36	288753426	367.767 ng
16) HEXATRIACONTANE C36	24.34	233984579	310.279 ng

BMF 9/9/02

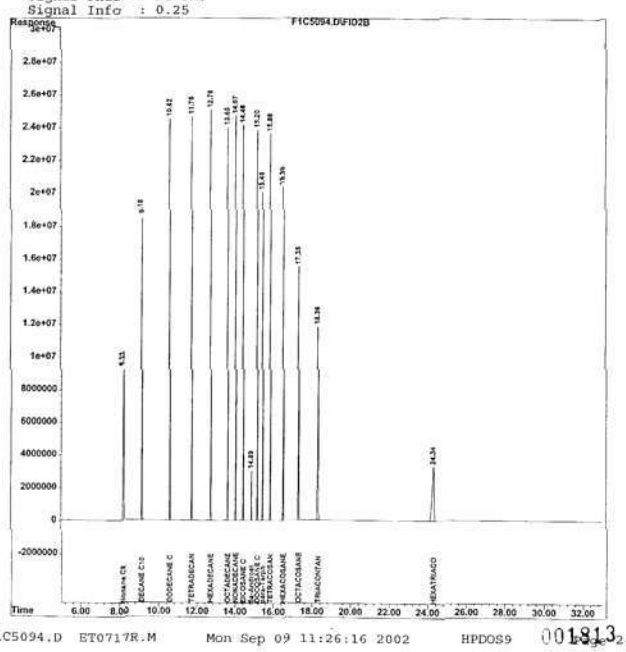
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : C:\HPCHEM\1\DATA\SEP02\020906.SEC\F1C5094.D Vial: 6
Acq On : 9-6-02 21:53:09 PM Operator:
Sample : ETPH L5 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Sep 9 11:25 19102 Quant Results File: ET0717R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0717R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Mon Sep 09 11:02:40 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C5094.D ET0717R.M Mon Sep 09 11:26:16 2002 HPDOS9 001813

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6696.D Vial: 97
Acq On : 12-31-02 18:51:40 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 11:51 19103 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:12:41 2003
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5a-Androstane	14.48	46134889	40.000 ng
System Monitoring Compounds			
2) S para-Terphenyl	15.07	54156084	53.817 ng
Spiked Amount 50.000		Recovery =	107.63%
Target Compounds			
3) Nonane C9	7.80	46099139	47.510 ng
4) DECANE C10	8.79	53360326	53.347 ng
5) DODECANE C12	10.24	55707829	55.002 ng
6) TETRADECANE C14	11.38	56475840	53.744 ng
7) HEXADECANE C 16	12.38	55923667	52.835 ng
8) OCTADECANE C18	13.27	56132728	52.586 ng
9) NONADECANE C19	13.69	56593095	52.478 ng
10) EICOSANE C20	14.08	56536036	52.490 ng
11) DOCOSANE C22	14.82	57736123	52.212 ng
12) TETRACOSANE C24	15.50	57760322	52.956 ng
13) HEXACOSANE C26	16.13	59133623	53.047 ng
14) OCTACOSANE C28	16.82	59472338	53.725 ng
15) TRIACONTANE C30	17.67	59611093	54.948 ng
16) HEXATRIACONTANE C36	22.57	53793019	66.164 ng

CCV= 108%
BMF
01/03/02

001814

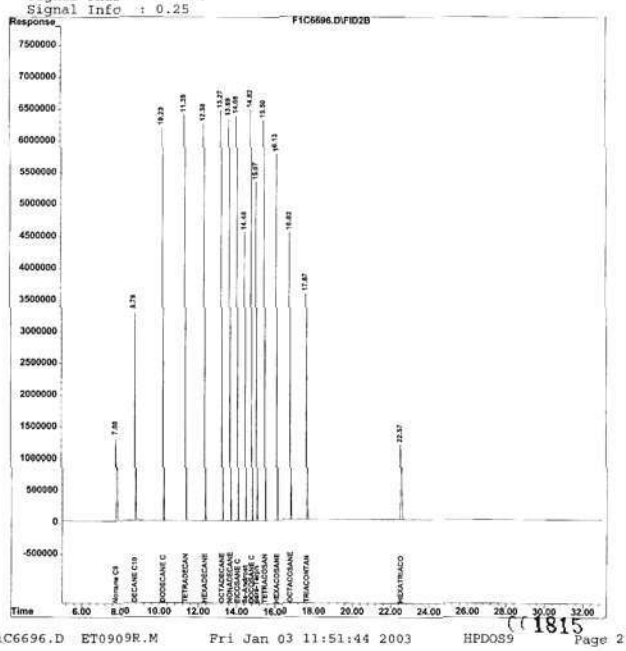
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6696.D ET0909R.M Fri Jan 03 11:51:34 2003 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6696.D Vial: 97
Acq On : 12-31-02 18:51:40 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 11:51 19103 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:12:41 2003
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6696.D ET0909R.M Fri Jan 03 11:51:44 2003 HPDOS9 Page 2

001815

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6712.D Vial: 97
Acq On : 1-1-03 0:38:30 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 11:52 19103 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:12:41 2003
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5a-Androstane	14.48	48726305	40.000 ng
System Monitoring Compounds			
2) S para-Terphenyl	15.07	56752098	53.398 ng
Spiked Amount 50.000		Recovery =	106.80%
Target Compounds			
3) Nonane C9	7.80	49076695	47.889 ng
4) DECANE C10	8.79	56750085	53.719 ng
5) DODECANE C12	10.23	59119414	55.266 ng
6) TETRADECANE C14	11.38	59800534	53.881 ng
7) HEXADECANE C 16	12.38	59113695	52.878 ng
8) OCTADECANE C18	13.27	59289527	52.590 ng
9) NONADECANE C19	13.68	59768116	52.475 ng
10) EICOSANE C20	14.08	59725323	52.502 ng
11) DOCOSANE C22	14.82	61071388	52.291 ng
12) TETRACOSANE C24	15.50	61121058	53.057 ng
13) HEXACOSANE C26	16.13	62619898	53.187 ng
14) OCTACOSANE C28	16.82	62918310	53.815 ng
15) TRIACONTANE C30	17.67	63064476	55.040 ng
16) HEXATRIACONTANE C36	22.56	56397458	65.678 ng

CCV= 108%
BMF
01/03/03

001816

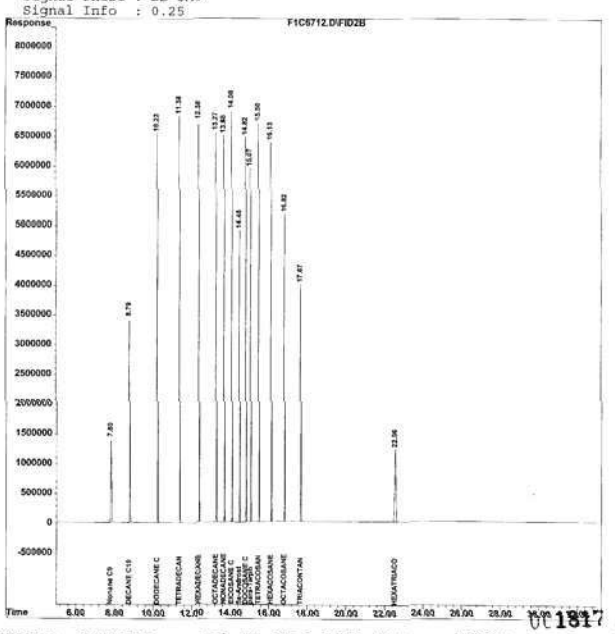
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6712.D ET0909R.M Fri Jan 03 11:52:48 2003 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6712.D Vial: 97
Acq On : 1-1-03 0:38:30 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 11:52 19103 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:12:41 2003
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



00 1817

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6697.D Vial: 98
Acq On : 12-31-02 18:51:40 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 11:43 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5a-Androstane	15.12	14495225	40.000 ng
System Monitoring Compounds			
2) S para-Terphenyl	15.68	18338966	58.018 ng
Spiked Amount 50.000		Recovery =	116.04%
Target Compounds			
3) Nonane C9	8.49	13903056	41.585 ng
4) DECANE C10	9.42	15576497	46.351 ng
5) DODECANE C12	10.83	16236180	47.903 ng
6) TETRADECANE C14	11.97	16664617	48.318 ng
7) HEXADECANE C 16	12.97	16639949	48.756 ng
8) OCTADECANE C18	13.87	16765110	49.478 ng
9) NONADECANE C19	14.29	16885600	49.880 ng
10) EICOSANE C20	14.69	16794464	50.115 ng
11) DOCOSANE C22	15.43	16967257	50.580 ng
12) TETRACOSANE C24	16.11	16841255	51.135 ng
13) HEXACOSANE C26	16.84	16925166	51.041 ng
14) OCTACOSANE C28	17.72	16874182	51.824 ng
15) TRIACONTANE C30	18.86	16686031	52.034 ng
16) HEXATRIACONTANE C36	25.80	15826278	53.373 ng

CCV= 99.1
BMK
01/08/03

001818

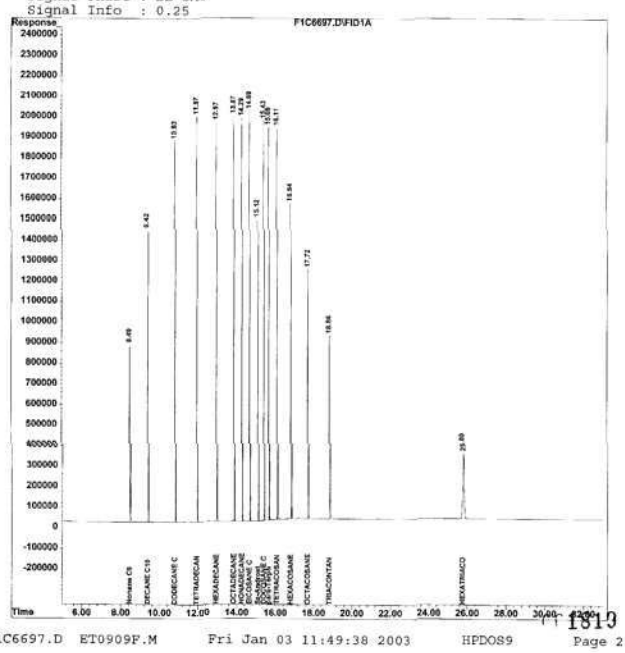
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6697.D Vial: 98
Acq On : 12-31-02 18:51:40 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 11:43 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001819

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6713.D Vial: 98
Acq On : 1-1-03 0:38:30 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 11:49 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5a-Androstane	15.12	14999766	40.000 ng
System Monitoring Compounds			
2) S para-Terphenyl	15.68	18904400	57.795 ng
Spiked Amount 50.000		Recovery =	115.59%
Target Compounds			
3) Nonane C9	8.49	14259971	41.218 ng
4) DECANE C10	9.42	16011277	46.042 ng
5) DODECANE C12	10.83	16723808	47.682 ng
6) TETRADECANE C14	11.97	17213115	48.229 ng
7) HEXADECANE C 16	12.97	17176733	48.636 ng
8) OCTADECANE C18	13.87	17338031	49.448 ng
9) NONADECANE C19	14.29	17464820	49.856 ng
10) EICOSANE C20	14.68	17389021	50.144 ng
11) DOCOSANE C22	15.43	17600177	50.701 ng
12) TETRACOSANE C24	16.11	17355628	50.924 ng
13) HEXACOSANE C26	16.84	17592066	51.268 ng
14) OCTACOSANE C28	17.72	17502802	51.946 ng
15) TRIACONTANE C30	18.86	17364208	52.328 ng
16) HEXATRIACONTANE C36	25.79	16434048	53.559 ng

CCV= 99.1.
BMK
01/03/03

001820

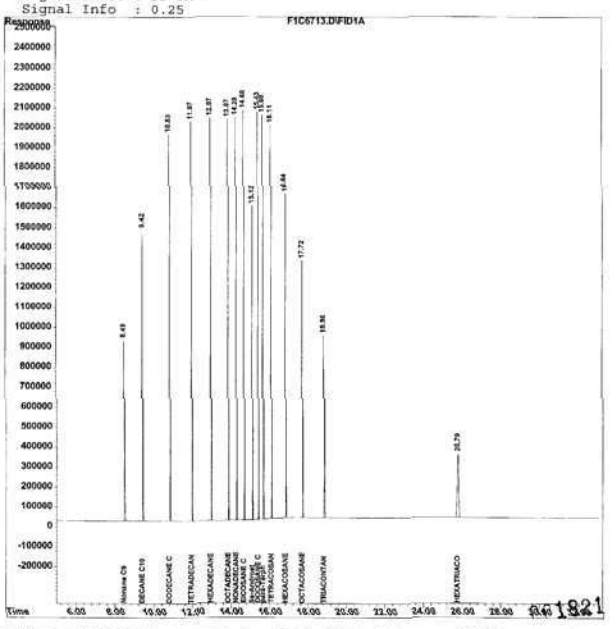
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6713.D Vial: 98
Acq On : 1-1-03 0:38:30 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 11:49 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\JAN03\030102.SEC\F1C6714.D Vial: 97
Acq On : 1-2-03 14:24:22 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 10:44 19103 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:12:41 2003
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.47	29313120	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.06	31348934	49.030 ng
Spiked Amount	50.000	Recovery	=	98.06%
	Target Compounds			
3)	Nonane C9	7.80	30983543	50.256 ng
4)	DECANE C10	8.78	31638009	49.782 ng
5)	DODECANE C12	10.23	32161309	49.976 ng
6)	TETRADECANE C14	11.37	32930766	49.321 ng
7)	HEXADECANE C 16	12.37	32855995	48.855 ng
8)	OCTADECANE C18	13.26	33085283	48.782 ng
9)	NONADECANE C19	13.68	33376564	48.711 ng
10)	EICOSANE C20	14.07	33348844	48.731 ng
11)	DOCOSANE C22	14.81	34103295	48.539 ng
12)	TETRACOSANE C24	15.49	34128792	49.246 ng
13)	HEXACOSANE C26	16.13	35037839	49.468 ng
14)	OCTACOSANE C28	16.81	35285348	50.167 ng
15)	TRIACONTANE C30	17.66	35610180	51.662 ng
16)	HEXATRIACONTANE C36	22.54	32807727	63.510 ng

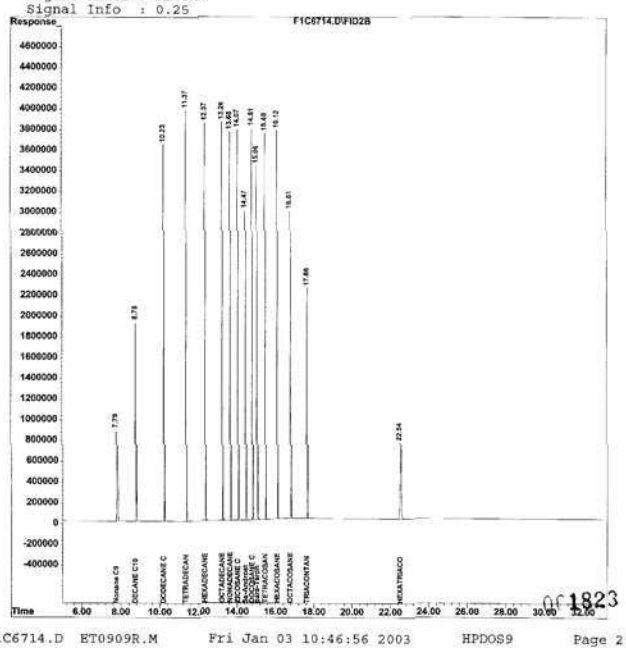
CCV=101%
BMF
01/08/03

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JAN03\030102.SEC\F1C6714.D Vial: 97
Acq On : 1-2-03 14:24:22 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 10:44 19103 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:12:41 2003
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\JAN03\030102.SEC\F1C6740.D Vial: 97
Acq On : 1-2-03 23:55:52 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 10:47 19103 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:12:41 2003
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.47	26567655	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.06	29067364	50.160 ng
Spiked Amount	50.000	Recovery	=	100.32%
	Target Compounds			
3)	Nonane C9	7.80	27635723	49.458 ng
4)	DECANE C10	8.79	28177951	48.919 ng
5)	DODECANE C12	10.23	28484244	48.836 ng
6)	TETRADECANE C14	11.37	28948300	47.837 ng
7)	HEXADECANE C 16	12.37	28867952	47.361 ng
8)	OCTADECANE C18	13.26	29253534	47.590 ng
9)	NONADECANE C19	13.68	29618445	47.693 ng
10)	EICOSANE C20	14.07	29750951	47.966 ng
11)	DOCOSANE C22	14.81	30764005	48.311 ng
12)	TETRACOSANE C24	15.49	31208866	49.687 ng
13)	HEXACOSANE C26	16.12	32500987	50.629 ng
14)	OCTACOSANE C28	16.81	33141479	51.989 ng
15)	TRIACONTANE C30	17.66	33413289	53.484 ng
16)	HEXATRIACONTANE C36	22.52	22488734	48.033 ng

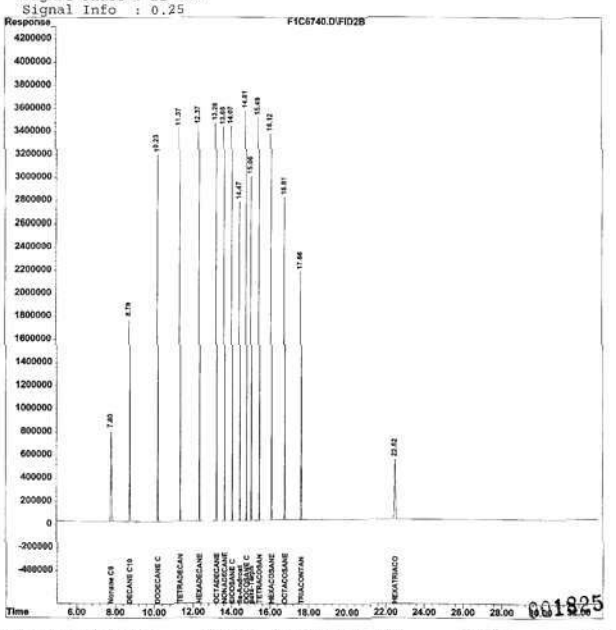
CCV=98%
BMF
01/08/03

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JAN03\030102.SEC\F1C6740.D Vial: 97
Acq On : 1-2-03 23:55:52 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 10:47 19103 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:12:41 2003
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001825

F1C6740.D ET0909R.M Fri Jan 03 10:48:12 2003 HPDOS9 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\JAN03\030102\F1C6715.D Vial: 98
Acq On : 1-2-03 14:24:22 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 10:42 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.11	14062214	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.67	16931925	55.216 ng
Spiked Amount	50.000	Recovery	=	110.43%
	Target Compounds			
3)	Nonane C9	8.47	15062661	46.441 ng
4)	DECANE C10	9.41	15176953	46.552 ng
5)	DODECANE C12	10.82	15388525	46.800 ng
6)	TETRADECANE C14	11.97	15770739	47.134 ng
7)	HEXADECANE C 16	12.97	15727358	47.501 ng
8)	OCTADECANE C18	13.87	15761658	47.949 ng
9)	NONADECANE C19	14.28	15817702	48.165 ng
10)	EICOSANE C20	14.68	15682491	48.238 ng
11)	DOCOSANE C22	15.42	15796194	48.539 ng
12)	TETRACOSANE C24	16.11	15505500	48.529 ng
13)	HEXACOSANE C26	16.84	15668013	48.705 ng
14)	OCTACOSANE C28	17.71	15518142	49.126 ng
15)	TRIACONTANE C30	18.86	15361823	49.380 ng
16)	HEXATRIACONTANE C36	25.78	13999325	48.666 ng

CCV=96%.
BMF
01/03/03

001826

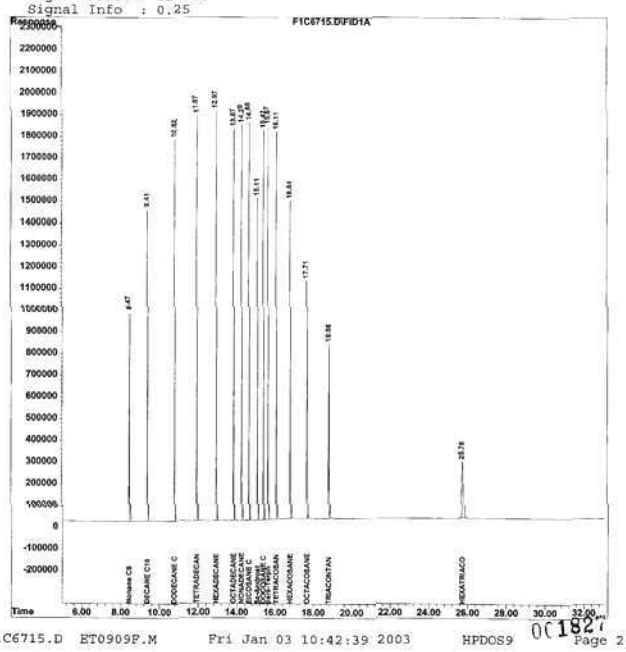
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6715.D ET0909F.M Fri Jan 03 10:42:33 2003 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JAN03\030102\F1C6715.D Vial: 98
Acq On : 1-2-03 14:24:22 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 10:42 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001827

F1C6715.D ET0909F.M Fri Jan 03 10:42:39 2003 HPDOS9 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\JAN03\030102\F1C6741.D Vial: 98
Acq On : 1-2-03 23:55:52 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 10:43 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.11	14458138	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.67	17483899	55.455 ng
Spiked Amount	50.000	Recovery	=	110.91%
	Target Compounds			
3)	Nonane C9	8.48	15276124	45.809 ng
4)	DECANE C10	9.42	15363287	45.833 ng
5)	DODECANE C12	10.83	15597496	46.137 ng
6)	TETRADECANE C14	11.97	16041529	46.631 ng
7)	HEXADECANE C 16	12.97	16022845	47.068 ng
8)	OCTADECANE C18	13.87	16187818	47.897 ng
9)	NONADECANE C19	14.28	16298282	48.269 ng
10)	EICOSANE C20	14.68	16212812	48.503 ng
11)	DOCOSANE C22	15.42	16406208	49.033 ng
12)	TETRACOSANE C24	16.11	16181522	49.258 ng
13)	HEXACOSANE C26	16.84	16415138	49.630 ng
14)	OCTACOSANE C28	17.71	16303261	50.199 ng
15)	TRIACONTANE C30	18.85	16224062	50.723 ng
16)	HEXATRIACONTANE C36	25.77	15252094	51.569 ng

CCV=97%.
BMF
01/03/03

(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6741.D ET0909F.M Fri Jan 03 10:43:31 2003 HPDOS9 Page 1

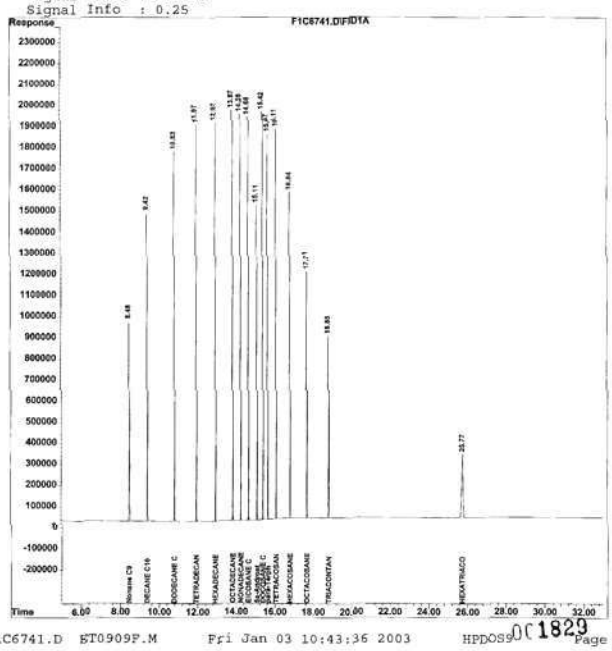
001828

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JAN03\030102\F1C6741.D Vial: 98
Acq On : 1-2-03 23:55:52 PM Operator:
Sample : ETPH CCV Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 10:43 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001829

SV-IS

Semivolatile Internal Standard Areas-Front Column

	F1C6690	F1C6692	F1C6694	Average
IS 1	6749476	6748054	6653127	6716886
IS 2	12287124	12445446	12163480	12298683
IS 3	12269362	12498168	12168769	12312100
IS 4	12741062	12918909	12676661	12778877
IS 5	12810007	12835858	12627289	12757718
IS 6	12271146	12326580	12102724	12233483
Total	69128177	69773015	68392050	69097747

AQ. Sample mistakenly spiked with internal Standard for SVOA (method 8270). Areas for these peaks subtracted out prior to calculation of TPH concentration. (No volume to normalize Aqueous Samples.)

001830

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6691.D Vial: 2
Acq On : 12-31-02 16:38:47 PM Operator:
Sample : SV IS Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 11:21 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I 5a-Androstane	15.12	12878577	40.000	ng	
	System Monitoring Compounds					
2)	S para-Terphenyl	15.68	15375364	54.748	ng	
Spiked Amount	50.000		Recovery =	109.50%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF
01/03/03

001831

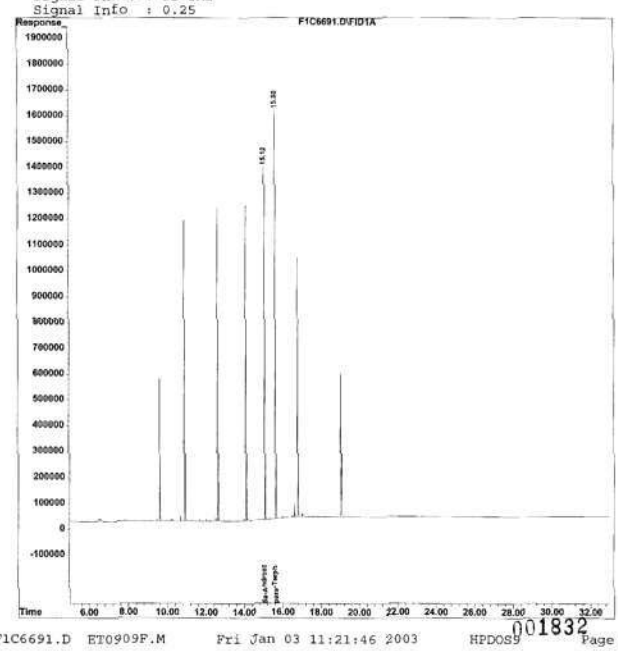
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6691.D ET0909F.M Fri Jan 03 11:21:42 2003 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6691.D Vial: 2
Acq On : 12-31-02 16:38:47 PM Operator:
Sample : SV IS Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 11:21 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001832

Area Percent Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6691.D Vial: 2
Acq On : 12-31-02 16:38:47 PM Operator:
Sample : SV IS Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6691.D\FID1A

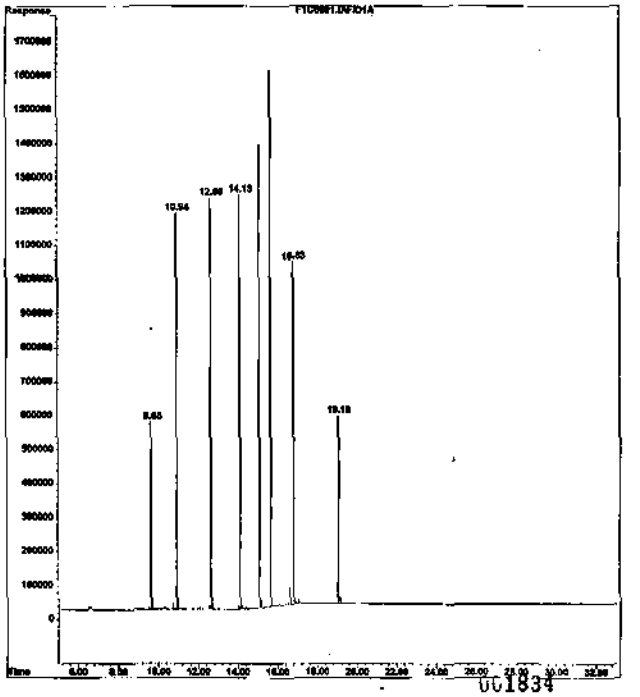
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	9.651	9.615	9.787	M	550857	6749476	52.69%	9.764%
2	10.937	10.904	11.010	M	1166736	12287124	95.92%	17.774%
3	12.662	12.627	12.697	M	1212080	12269362	95.78%	17.749%
4	14.132	14.095	14.170	M	1220903	12741082	99.46%	18.431%
$	16.835	16.784	16.978	M	1005946	12810007	100.00%	18.531%
6	19.095	19.035	19.245	M	552162	12271146	95.79%	17.751%

Sum of corrected areas: 69128177

F1C6691.D ET0909F.M Fri Jan 03 11:23:30 2003 HPDOS9

001833

File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6691.D
Operator :
Acquired : 12-31-02 16:38:47 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: SV IS
Misc Info :
Vial Number: 2



001834

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6693.D Vial: 2
Acq On : 12-31-02 17:22:43 PM Operator:
Sample : SV IS Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 11:26 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I 5a-Androstane	15.12	13065029	40.000	ng	
	System Monitoring Compounds					
2)	S para-Terphenyl	15.68	15557916	54.608	ng	
Spiked Amount	50.000	Recovery	=	109.22%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

RMF
a/08/03

001835

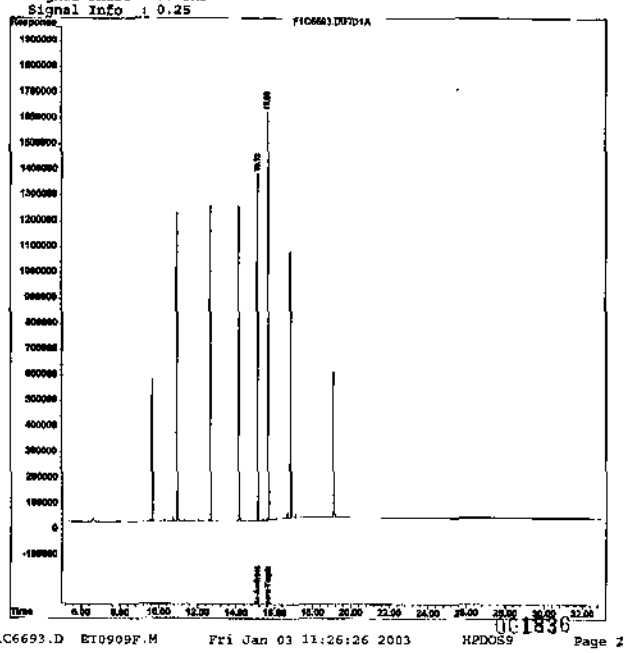
(f)=RT Delta > 1/2 Window (m)=Manual int.
F1C6693.D ET0909F.M Fri Jan 03 11:26:22 2003 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6693.D Vial: 2
Acq On : 12-31-02 17:22:43 PM Operator:
Sample : SV IS Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 11:26 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001836

F1C6693.D ET0909F.M Fri Jan 03 11:26:26 2003 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6693.D Vial: 2
Acq On : 12-31-02 17:22:43 PM Operator:
Sample : SV IS Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6693.D\FIDIA

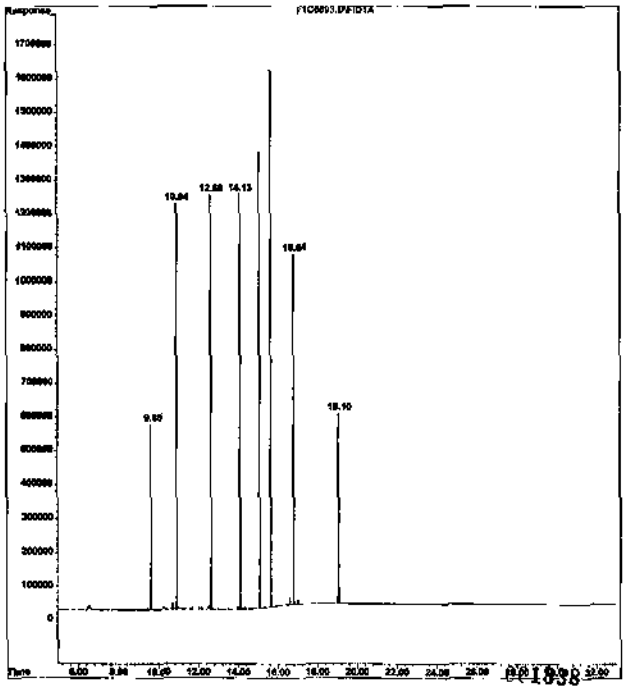
peak #	R.T. min	$tart min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	9.652	9.617	9.704	M	548966	6748054	52.23%	9.671%
2	10.938	10.905	11.004	M	1202199	12445446	96.34%	17.837%
3	12.663	12.626	12.752	M	1228087	12498168	96.74%	17.913%
4	14.133	14.101	14.171	M	1228759	12918909	100.00%	18.516%
5	16.835	16.799	16.888	M	1036290	12835858	99.36%	18.397%
6	19.097	19.037	19.179	M	563389	12326580	95.42%	17.667%

Sum of corrected areas: 69773016

F1C6693.D ET0909F.M Fri Jan 03 11:28:26 2003 HPDOS9

001837

File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6693.D
Operator :
Acquired : 12-31-02 17:22:43 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: SV IS
Misc Info :
Vial Number: 2



001838

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6695.D Vial: 2
Acq On : 12-31-02 18:09:02 PM Operator:
Sample : SV IS Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 11:30 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I 5a-Androstane	15.12	12775372	40.000	ng	
	System Monitoring Compounds					
2)	S para-Terphenyl	15.68	15211721	54.603	ng	
Spiked Amount	50.000		Recovery =	109.21%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

BMF
01/03/03

(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6695.D ET0909F.M Fri Jan 03 11:30:20 2003 HPDOS9 Page 1

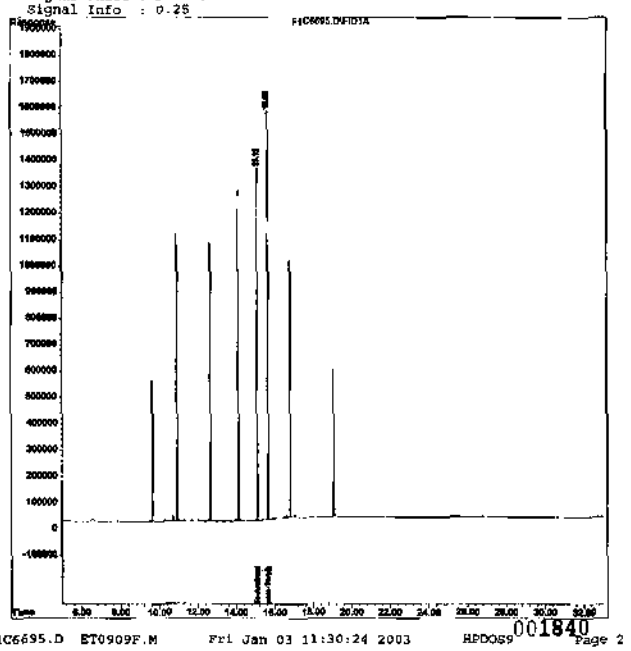
001839

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6695.D Vial: 2
Acq On : 12-31-02 18:09:02 PM Operator:
Sample : SV IS Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 11:30 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6695.D ET0909F.M Fri Jan 03 11:30:24 2003 HPDOS9 Page 2

001840

Area Percent Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6695.D Vial: 2
Acq On : 12-31-02 18:09:02 PM Operator:
Sample : SV IS Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6695.D\FID1A

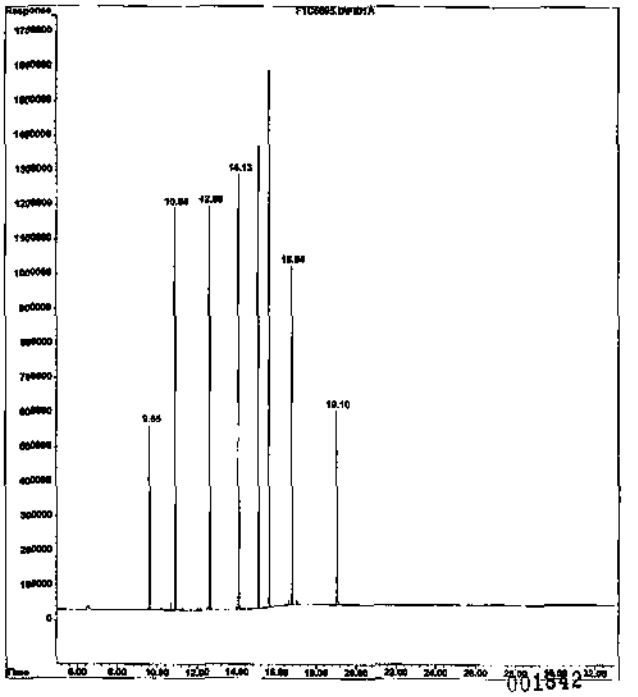
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	9.652	9.620	9.743	M	533387	6653127	52.48%	9.728%
2	10.939	10.909	11.014	M	1161669	12163480	95.95%	17.785%
3	12.665	12.632	12.718	M	1165145	12168769	95.99%	17.793%
4	14.134	14.104	14.176	M	1259369	12676661	100.00%	18.535%
5	16.835	16.793	16.937	M	978844	12627289	99.61%	18.463%
6	19.098	19.025	19.243	M	559693	12102724	95.47%	17.696%

Sum of corrected areas: 68392050

F1C6695.D ET0909F.M Fri Jan 03 11:31:23 2003 HPDOS9

001841

File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6695.D
Operator :
Acquired : 12-31-02 18:09:02 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: SV IS
Misc Info :
Vial Number: 2



001842

SV-IS

Semivolatile Internal Standard Areas-Rear Column

	F1C6690	F1C6692	F1C6694	Average
IS 1	9896139	9331174	9463478	9563597
IS 2	19526745	18643520	18917280	19029182
IS 3	20527414	19414622	19911239	19951092
IS 4	19089366	17926725	18827886	18548659
IS 5	17959440	17552314	18462070	17991275
IS 6	17410703	16901764	17763894	17358794
Total	104409807	99772139	103146847	102442598

Page 1

001843

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6690.D Vial: 1
Acq On : 12-31-02 16:38:47 PM Operator:
Sample : SV IS Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 31 13:08 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Dec 18 09:06:31 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units	
	Internal Standards				
1) I	5a-Androstane	14.49	22123988	40.000 ng	
	System Monitoring Compounds				
2) S	para-Terphenyl	15.08	21932651	45.450 ng	
Spiked Amount	50.000	Recovery	=	90.90%	
	Target Compounds				
3)	Nonane C9	0.00	0	N.D. ng	
4)	DECANE C10	0.00	0	N.D. ng	d
5)	DODECANE C12	0.00	0	N.D. ng	d
6)	TETRADECANE C14	0.00	0	N.D. ng	d
7)	HEXADECANE C 16	0.00	0	N.D. ng	d
8)	OCTADECANE C18	0.00	0	N.D. ng	d
9)	NONADECANE C19	0.00	0	N.D. ng	d
10)	EICOSANE C20	0.00	0	N.D. ng	d
11)	DOCOSANE C22	0.00	0	N.D. ng	d
12)	TETRACOSANE C24	0.00	0	N.D. ng	d
13)	HEXACOSANE C26	0.00	0	N.D. ng	d
14)	OCTACOSANE C28	0.00	0	N.D. ng	d
15)	TRIACONTANE C30	0.00	0	N.D. ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D. ng	

BMF
01/03/03

001844

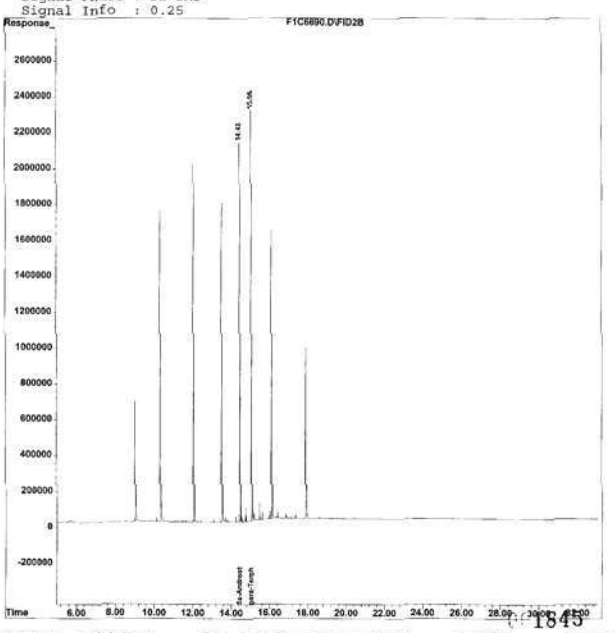
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6690.D ET0909R.M Fri Jan 03 10:57:04 2003 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6690.D Vial: 1
Acq On : 12-31-02 16:38:47 PM Operator:
Sample : SV IS Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 31 13:08 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Dec 18 09:06:31 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



1845

F1C6690.D ET0909R.M Fri Jan 03 10:57:12 2003 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6690.D Vial: 1
Acq On : 12-31-02 16:38:47 PM Operator:
Sample : SV IS Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6690.D\FID2B

peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	9.031	8.988	9.318	M	670932	9896139	48.21%	9.478%
2	10.331	10.306	10.609	M	1738480	19526745	95.13%	18.702%
3	12.057	12.020	12.288	M	1989007	20527414	100.00%	19.660%
4	13.517	13.483	13.625	M	1780793	19089366	92.99%	18.283%
5	16.120	16.086	16.278	M	1616087	17959440	87.49%	17.201%
6	17.904	17.850	18.125	M	956985	17410703	84.82%	16.675%

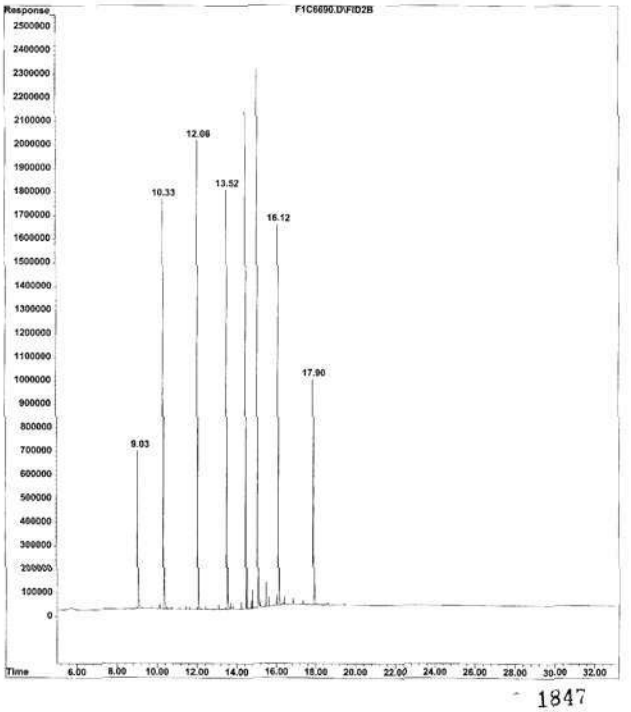
Sum of corrected areas: 104409808

F1C6690.D ET0909R.M Fri Jan 03 10:59:11 2003 HPDOS9

BMF
01/03/03

1846

File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6690.D
Operator :
Acquired : 12-31-02 16:38:47 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: SV IS
Misc Info :
Vial Number: 1



1847

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6692.D Vial: 1
Acq On : 12-31-02 17:22:42 PM Operator:
Sample : SV IS Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 31 13:40 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Dec 18 09:06:31 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.49	19465377	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.07	20202423	47.582	ng	
Spiked Amount	50.000	Recovery	=	95.16%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF
01/03/03

1848

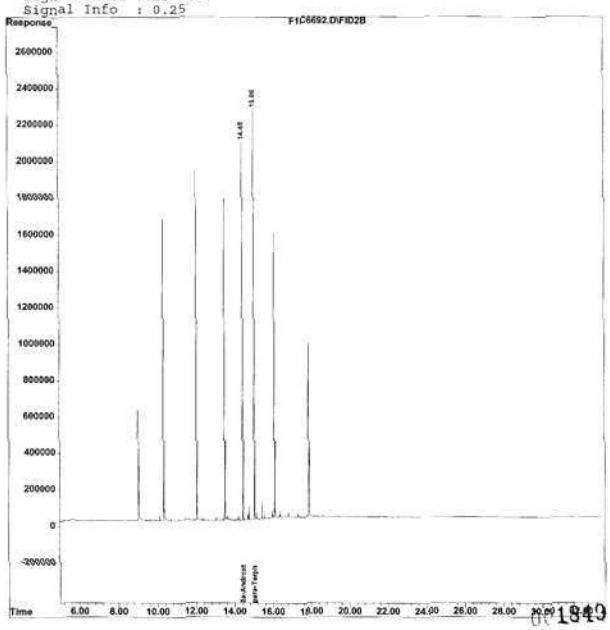
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6692.D ET0909R.M Fri Jan 03 10:59:44 2003 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6692.D Vial: 1
Acq On : 12-31-02 17:22:42 PM Operator:
Sample : SV IS Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Dec 31 13:40 19102 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Dec 18 09:06:31 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



00 1849

F1C6692.D ET0909R.M Fri Jan 03 10:59:52 2003 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6692.D Vial: 1
Acq On : 12-31-02 17:22:42 PM Operator:
Sample : SV IS Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6692.D\FID2B

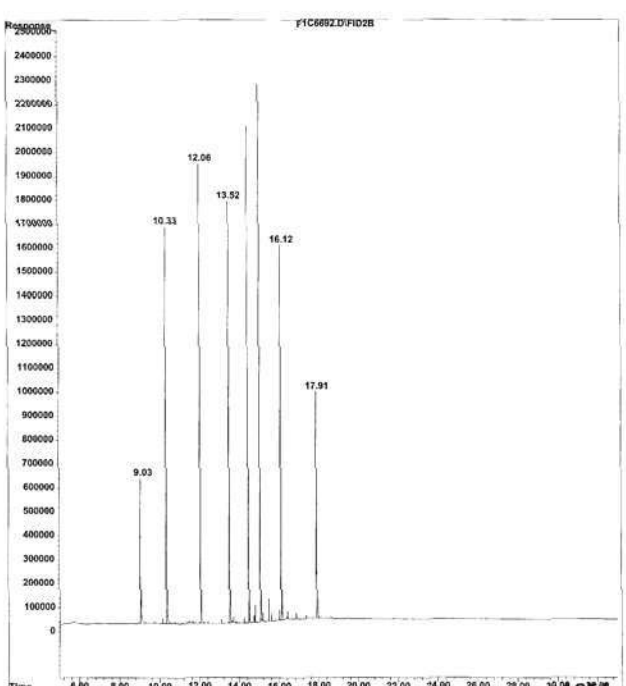
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	9.033	9.006	9.388	M	605387	9033174	48.07%	9.354%
2	10.332	10.275	10.662	M	1656718	18643520	96.03%	18.686%
3	12.057	12.018	12.266	M	1916770	19414622	100.00%	19.459%
4	13.518	13.488	13.580	M	1760673	17928725	92.35%	17.969%
5	16.120	16.074	16.291	M	1562415	17552314	90.41%	17.592%
6	17.905	17.852	18.042	M	944653	16901784	87.06%	16.940%

Sum of corrected areas: 99774139

F1C6692.D ET0909R.M Fri Jan 03 11:01:07 2003 HPDOS9

00 1850

File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6692.D
Operator :
Acquired : 12-31-02 17:22:42 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: SV IS
Misc Info :
Vial Number: 1



00 1851

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6694.D Vial: 1
Acq On : 12-31-02 18:09:02 PM Operator:
Sample : SV IS Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 11:02 19103 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:12:41 2003
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.48	20866970	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.07	22728363	49.936	ng	
Spiked Amount	50.000	Recovery	=	99.87%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	d
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d

BMF
01/03/03

00 1852

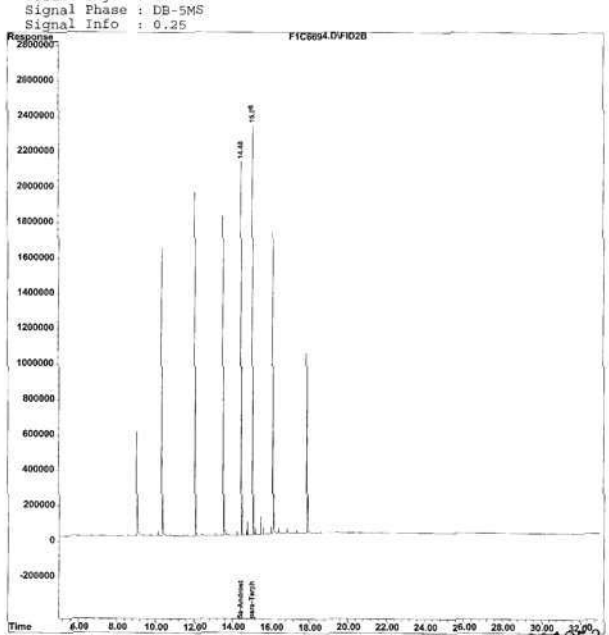
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6694.D ET0909R.M Fri Jan 03 11:02:25 2003 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6694.D Vial: 1
Acq On : 12-31-02 18:09:02 PM Operator:
Sample : SV IS Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 11:02 19103 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:12:41 2003
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001853

F1C6694.D ET0909R.M Fri Jan 03 11:02:32 2003 HPDOS9 Page 2

Area Percent Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6694.D Vial: 1
Acq On : 12-31-02 18:09:02 PM Operator:
Sample : SV IS Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6694.D\FID2B

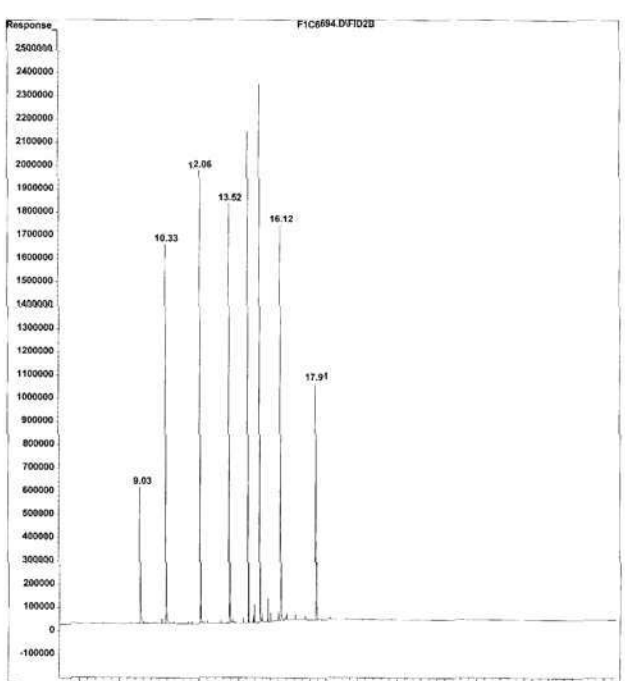
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	9.032	8.993	9.403	M	585804	9463478	47.53%	9.175%
2	10.333	10.298	10.614	M	1630122	18917280	95.01%	18.340%
3	12.059	12.025	12.294	M	1944551	19911239	100.00%	19.304%
4	13.520	13.493	13.581	M	1804036	18627886	93.55%	18.060%
5	16.122	16.085	16.281	M	1698334	18462070	92.72%	17.899%
6	17.907	17.857	18.043	M	1016355	17763894	89.22%	17.222%

Sum of corrected areas: 103145847

F1C6694.D ET0909R.M Fri Jan 03 11:03:32 2003 HPDOS9

001854

File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6694.D
Operator :
Acquired : 12-31-02 18:09:02 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: SV IS
Misc Info :
Vial Number: 1



001855

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6701.D Vial: 4
Acq On : 12-31-02 20:18:52 PM Operator:
Sample : MB-4924 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 6 14:03 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units		
	Internal Standards						
1) I	Sa-Androstane	15.12	14690064	40.000	ng		
	System Monitoring Compounds						
2) S	para-Terphenyl	15.68	15248176	47.600	ng		
Spiked Amount	50.000		Recovery =	95.20%			
	Target Compounds						
3)	Nonane C9	0.00	0	N.D.	ng		
4)	DECANE C10	0.00	0	N.D.	ng	d	
5)	DODECANE C12	0.00	0	N.D.	ng	d	
6)	TETRADECANE C14	0.00	0	N.D.	ng	d	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d	
8)	OCTADECANE C18	0.00	0	N.D.	ng	d	
9)	NONADECANE C19	0.00	0	N.D.	ng	d	
10)	EICOSANE C20	0.00	0	N.D.	ng	d	
11)	DOCOSANE C22	0.00	0	N.D.	ng	d	
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d	
13)	HEXACOSANE C26	16.84	17188116	51.147	ng	m 2	BNF 01/06/03
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d	
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d	
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	d	

BNF 01/06/03

001856

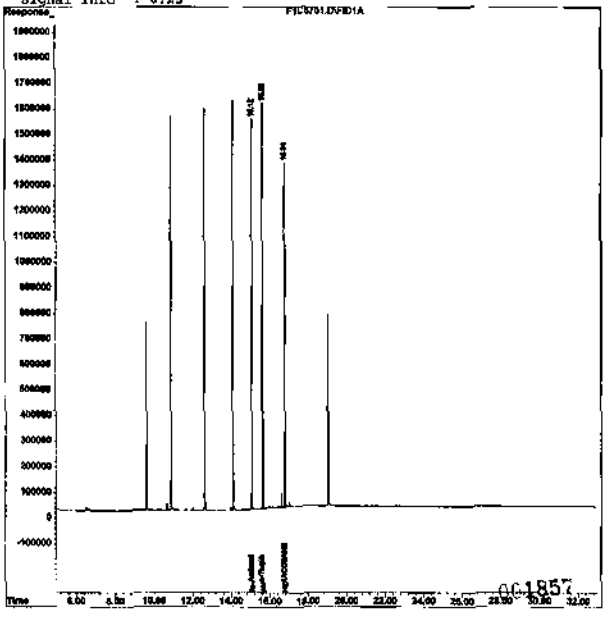
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6701.D ET0909F.M Mon Jan 06 14:04:01 2003 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6701.D Vial: 4
Acq On : 12-31-02 20:18:52 PM Operator:
Sample : MB-4924 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 6 14:03 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



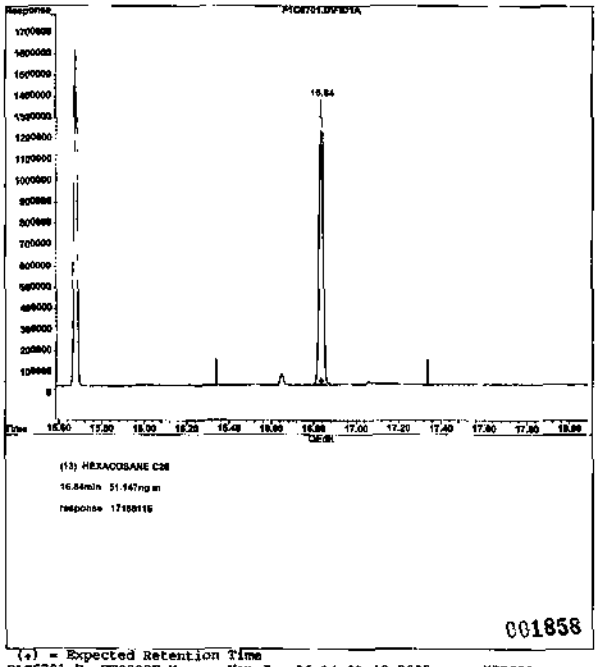
001857

F1C6701.D ET0909F.M Mon Jan 06 14:04:05 2003 HPDOS9 Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6701.D Vial: 4
Acq On : 12-31-02 20:18:52 PM Operator:
Sample : MB-4924 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 12:37 19103 Quant Results File: ET0909F.RES

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Multiple Level Calibration



001858

(+) = Expected Retention Time
F1C6701.D ET0909F.M Mon Jan 06 14:03:48 2003 HPDOS9

Area Percent Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6701.D Vial: 4
Acq On : 12-31-02 20:18:52 PM Operator:
Sample : MB-4924 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6701.D\FID1A

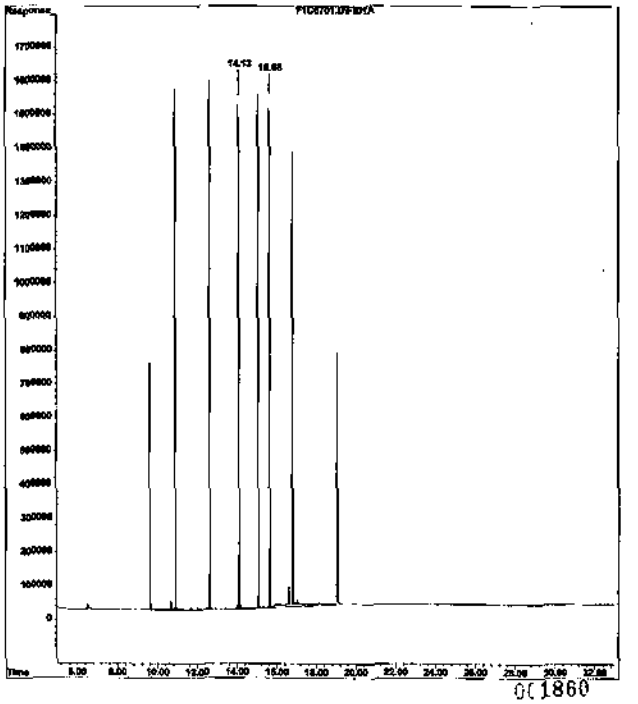
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.133	9.556	14.356	M	1603739	61418038	79.77%	44.373%
2	15.676	14.410	19.296	M	1589682	76994782	100.00%	55.627%

Sum of corrected areas: 138412820

F1C6701.D ET0909F.M Fri Jan 03 12:38:24 2003 HPDOS9

001859

File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6701.D
Operator :
Acquired : 12-31-02 20:18:52 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: MB-4924
Misc Info :
Vial Number: 4



001860

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6700.D Vial: 3
Acq On : 12-31-02 20:18:51 PM Operator:
Sample : MB-4912 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 6 14:02 19103 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:12:41 2003
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	5a-Androstane	14.48	26085045	40.000	ng	
	System Monitoring Compounds					
2) S	para-Terphenyl	15.06	24896360	43.761	ng	
Spiked Amount	50.000		Recovery =	87.52%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	d
5)	DODECANE C12	0.00	0	N.D.	ng	d
6)	TETRADECANE C14	0.00	0	N.D.	ng	d
7)	HEXADECANE C 16	0.00	0	N.D.	ng	d
8)	OCTADECANE C18	0.00	0	N.D.	ng	d
9)	NONADECANE C19	0.00	0	N.D.	ng	d
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	16.12	26498879	42.043	ng	m2
14)	OCTACOSANE C28	0.00	0	N.D.	ng	d
15)	TRIACONTANE C30	0.00	0	N.D.	ng	d
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

BMF 01/06/03

(f)=RT Delta > 1/2 Window (m)=manual Inc.
F1C6700.D ET0909R.M Mon Jan 06 14:02:56 2003 HPDOS9 Page 1

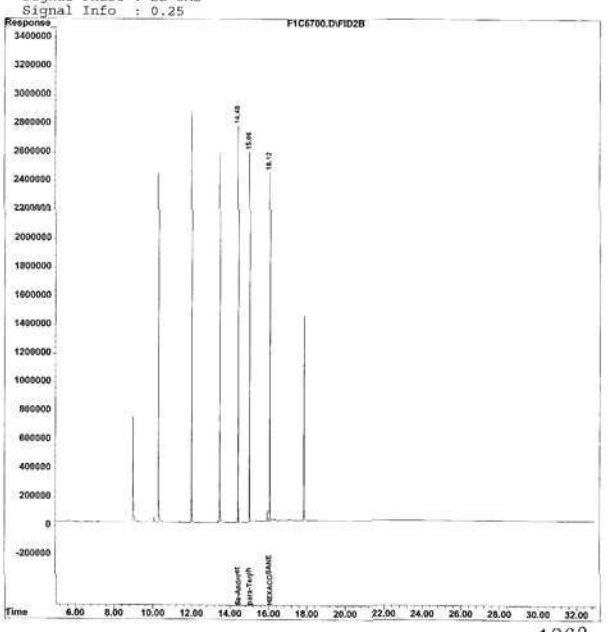
001861

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6700.D Vial: 3
Acq On : 12-31-02 20:18:51 PM Operator:
Sample : MB-4912 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 6 14:02 19103 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:12:41 2003
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



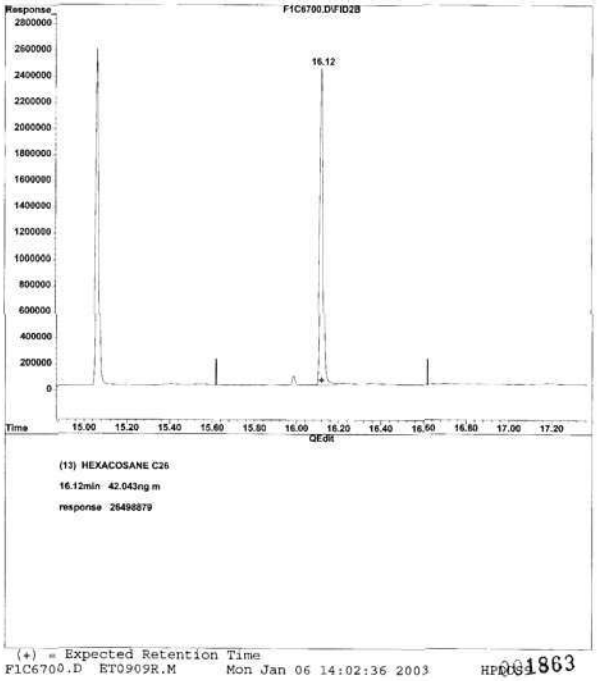
F1C6700.D ET0909R.M Mon Jan 06 14:03:04 2003 HPDOS9 Page 2

001862

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6700.D Vial: 3
Acq On : 12-31-02 20:18:51 PM Operator:
Sample : MB-4912 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 12:04 19103 Quant Results File: ET0909R.RES

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:12:41 2003
Response via : Multiple Level Calibration



(+) = Expected Retention Time
F1C6700.D ET0909R.M Mon Jan 06 14:02:36 2003 HPDOS9

001863

Area Percent Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6700.D Vial: 3
Acq On : 12-31-02 20:18:51 PM Operator:
Sample : MB-4912 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6700.D\FID2B

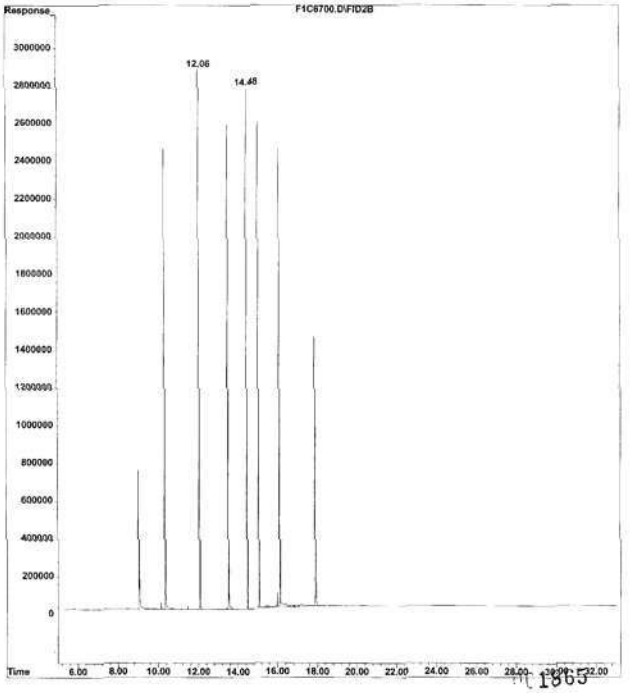
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	12.058	8.985	14.079	M	2860567	102866637	88.84%	47.046%
2	14.476	14.403	18.285	M	2761999	115783828	100.00%	52.954%

Sum of corrected areas: 218650465

F1C6700.D ET0909R.M Fri Jan 03 12:05:18 2003 HPDOS9

001864

File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6700.D
Operator :
Acquired : 12-31-02 20:18:51 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: MB-4912
Misc Info :
Vial Number: 3



1865

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\JAN03\030102.SEC\F1C6722.D Vial: 1
Acq On : 1-2-03 17:17:50 PM Operator:
Sample : MB-4963 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 10:09 19103 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Dec 18 09:06:31 2002
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I 5a-Androstane	14.47	30283514	40.000	ng	
	System Monitoring Compounds					
2)	S para-Terphenyl	15.06	32133539	48.647	ng	
Spiked Amount	50.000		Recovery =	97.29%		
	Target Compounds					
3)	Nonane C9	0.00	0	N.D.	ng	
4)	DECANE C10	0.00	0	N.D.	ng	
5)	DODECANE C12	0.00	0	N.D.	ng	
6)	TETRADECANE C14	0.00	0	N.D.	ng	
7)	HEXADECANE C 16	0.00	0	N.D.	ng	
8)	OCTADECANE C18	0.00	0	N.D.	ng	
9)	NONADECANE C19	0.00	0	N.D.	ng	
10)	EICOSANE C20	0.00	0	N.D.	ng	d
11)	DOCOSANE C22	0.00	0	N.D.	ng	d
12)	TETRACOSANE C24	0.00	0	N.D.	ng	d
13)	HEXACOSANE C26	0.00	0	N.D.	ng	
14)	OCTACOSANE C28	0.00	0	N.D.	ng	
15)	TRIACONTANE C30	0.00	0	N.D.	ng	
16)	HEXATRIACONTANE C36	0.00	0	N.D.	ng	

GMF
01/03/03

(f)=RT Delta > 1/2 Window (m)=manual
F1C6722.D ET0909R.M Fri Jan 03 10:10:14 2003 HPDOS9 Page 1

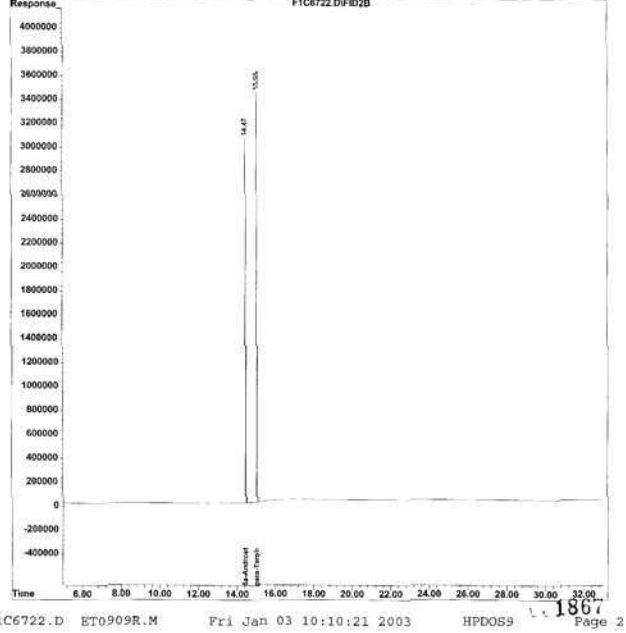
1866

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JAN03\030102.SEC\F1C6722.D Vial: 1
Acq On : 1-2-03 17:17:50 PM Operator:
Sample : MB-4963 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 10:09 19103 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Wed Dec 18 09:06:31 2002
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6722.D ET0909R.M Fri Jan 03 10:10:21 2003 HPDOS9 Page 2

1867

Area Percent Report

Data File : C:\HPCHEM\1\DATA\JAN03\030102.SEC\F1C6722.D Vial: 1
Acq On : 1-2-03 17:17:50 PM Operator:
Sample : MB-4963 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integrator)
Title : TPH-GC, Fuel ID, DRO

Signal : F1C6722.D\FID2B

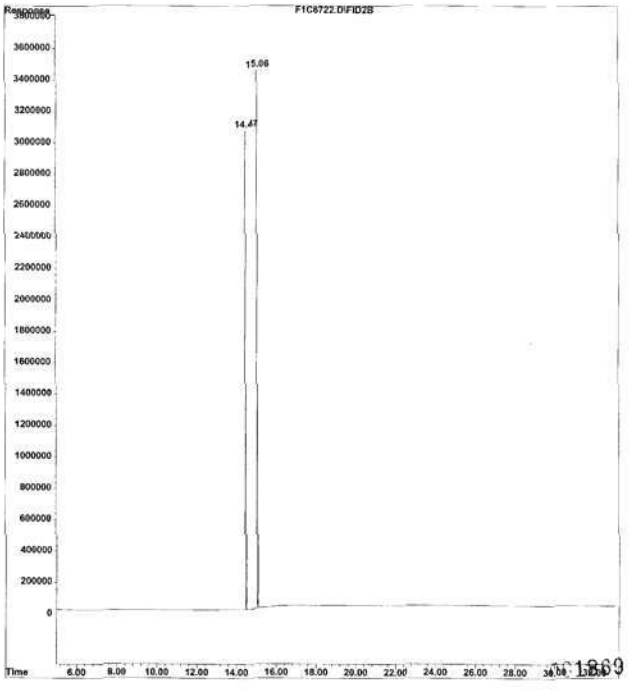
peak #	R.T. min	Start min	End min	PK TY	peak height	peak area	peak % max.	% of total
1	14.471	14.387	14.870	M	3048877	30426289	92.77%	48.124%
2	15.060	15.000	15.577	M	3428098	32798407	100.00%	51.876%

Sum of corrected areas: 63224697

F1C6722.D ET0909R.M Fri Jan 03 10:11:01 2003 HPDOS9

001868

File : C:\HPCHEM\1\DATA\JAN03\030102.SEC\F1C6722.D
Operator :
Acquired : 1-2-03 17:17:50 PM using AcqMethod ETPH-B.M
Instrument : F1
Sample Name: MB-4963
Misc Info :
Vial Number: 1



001869

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6704.D Vial: 7
Acq On : 12-31-02 21:44:17 PM Operator:
Sample : LCS-4924 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 12:06 19103 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:12:41 2003
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.48	28031234	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.06	26516407	43.369 ng
Spiked Amount	50.000	Recovery	=	86.74%
	Target Compounds			
3)	Nonane C9	7.80	18461967	31.315 ng
4)	DECANE C10	8.79	22886371	37.658 ng
5)	DODECANE C12	10.23	24599599	39.974 ng
6)	TETRADECANE C14	11.38	25077786	39.277 ng
7)	HEXADECANE C 16	12.37	25833375	40.169 ng
8)	OCTADECANE C18	13.27	25844539	39.849 ng
9)	NONADECANE C19	13.68	26037307	39.737 ng
10)	EICOSANE C20	14.08	26261705	40.129 ng
11)	DOCOSANE C22	14.82	26502481	39.446 ng
12)	TETRACOSANE C24	15.50	26864902	40.538 ng
13)	HEXACOSANE C26	16.12	55042637	~~81.266 ng~~ 39.223
14)	OCTACOSANE C28	16.82	27174925	40.403 ng BMF 01/06/03
15)	TRIACONTANE C30	17.67	27053597	41.043 ng
16)	HEXATRIACONTANE C36	22.54	24689139	49.979 ng

C_{26} 81.266 - 42.043 = 39.223
(blank)
from column

LCS= 80%
BMF
01/06/03

001870

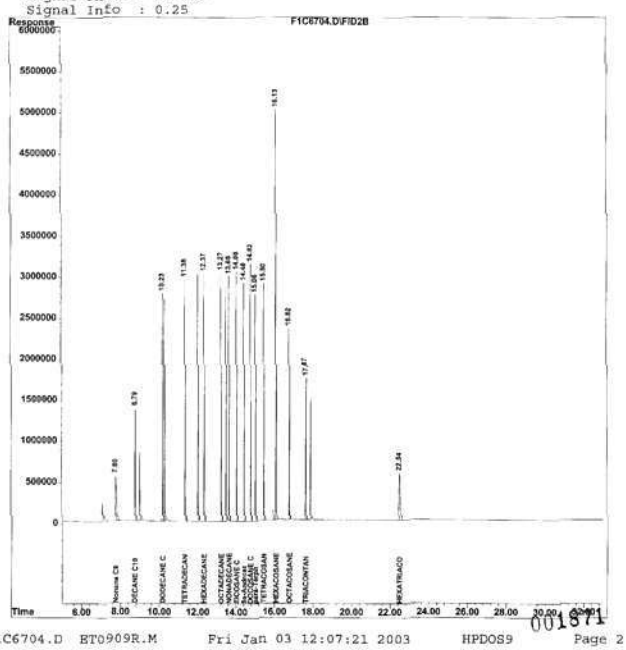
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6704.D ET0909R.M Fri Jan 03 12:07:11 2003 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6704.D Vial: 7
Acq On : 12-31-02 21:44:17 PM Operator:
Sample : LCS-4924 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 12:06 19103 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:12:41 2003
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



001871

F1C6704.D ET0909R.M Fri Jan 03 12:07:21 2003 HPDOS9 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6705.D Vial: 8
Acq On : 12-31-02 21:44:18 PM Operator:
Sample : LCSD-4924 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 12:39 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.12	15284026	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.68	16139090	48.423 ng
Spiked Amount	50.000	Recovery	=	96.85%
	Target Compounds			
3)	Nonane C9	8.48	10046924	28.500 ng
4)	DECANE C10	9.42	11944524	33.709 ng
5)	DODECANE C12	10.83	12939433	36.206 ng
6)	TETRADECANE C14	11.97	13344872	36.696 ng
7)	HEXADECANE C 16	12.97	13787999	38.315 ng
8)	OCTADECANE C18	13.87	13913248	38.943 ng
9)	NONADECANE C19	14.29	14042124	39.340 ng
10)	EICOSANE C20	14.68	14145048	40.031 ng
11)	DOCOSANE C22	15.43	14164917	40.046 ng
12)	TETRACOSANE C24	16.11	14251087	41.037 ng
13)	HEXACOSANE C26	16.84	32100182	~~91.808 ng~~ 40.661
14)	OCTACOSANE C28	17.72	14207365	41.381 ng BMF
15)	TRIACONTANE C30	18.86	13974906	41.331 ng 01/06/03
16)	HEXATRIACONTANE C36	25.79	13153849	42.071 ng

C_{26} 91.808 - 51.147 = 40.661
(blank)
from column

LCS= 77%
BMF
01/06/03

001872

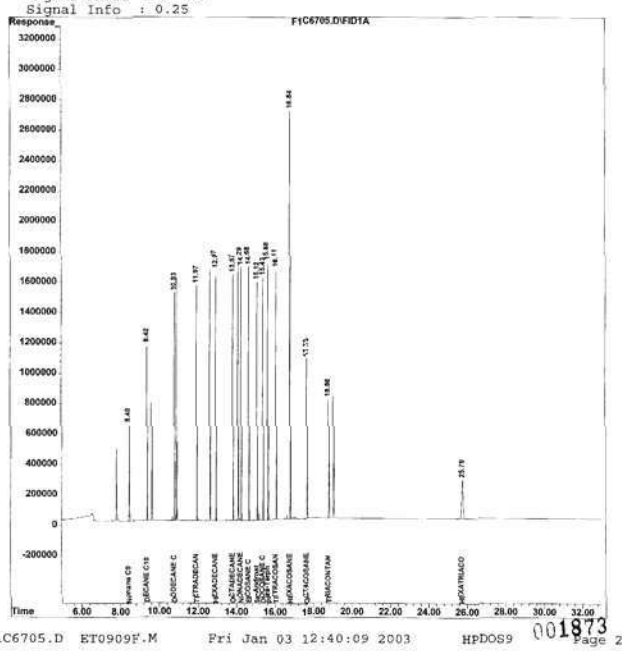
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6705.D ET0909F.M Fri Jan 03 12:40:04 2003 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6705.D Vial: 8
Acq On : 12-31-02 21:44:18 PM Operator:
Sample : LCSD-4924 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 12:39 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6705.D ET0909F.M Fri Jan 03 12:40:09 2003 HPDOS9 001873 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6702.D Vial: 5
Acq On : 12-31-02 21:01:19 PM Operator:
Sample : LCS-4912 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 13:24 19103 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:12:41 2003
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	14.47	26508698	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.06	26293294	45.474 ng
Spiked Amount	50.000	Recovery	=	90.95%
	Target Compounds			
3)	Nonane C9	7.80	18107984	32.479 ng
4)	DECANE C10	8.79	22590074	39.305 ng
5)	DODECANE C12	10.23	24391375	41.912 ng
6)	TETRADECANE C14	11.38	24896279	41.233 ng
7)	HEXADECANE C 16	12.37	25658109	42.188 ng
8)	OCTADECANE C18	13.27	25723575	41.940 ng
9)	NONADECANE C19	13.68	25947060	41.874 ng
10)	EICOSANE C20	14.07	26185738	42.312 ng
11)	DOCOSANE C22	14.81	26505743	41.716 ng
12)	TETRACOSANE C24	15.49	27002417	43.085 ng
13)	HEXACOSANE C26	16.12	53782045	~~83.966 ng~~ 41.923
14)	OCTACOSANE C28	16.81	27217386	42.791 ng BMF 01/06/03
15)	TRIACONTANE C30	17.66	26888800	43.136 ng
16)	HEXATRIACONTANE C36	22.53	24484156	52.411 ng

C_{26} 83.966 - 42.043 = 41.923 (blank) Rear Column

LCS= 84 %. BMF 01/06/03

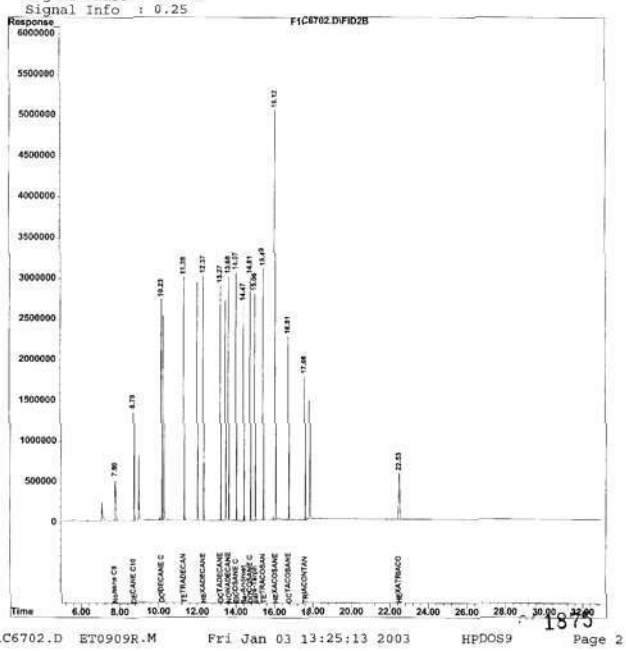
(f)=RT Delta > 1/2 Window (m)=manual int. 001874
F1C6702.D ET0909R.M Fri Jan 03 13:25:04 2003 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231.SEC\F1C6702.D Vial: 5
Acq On : 12-31-02 21:01:19 PM Operator:
Sample : LCS-4912 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 13:24 19103 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:12:41 2003
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



F1C6702.D ET0909R.M Fri Jan 03 13:25:13 2003 HPDOS9 1875 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6703.D Vial: 6
Acq On : 12-31-02 21:01:19 PM Operator:
Sample : LCSD-4912 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 12:38 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

	Compound	R.T.	Response	Conc Units
	Internal Standards			
1) I	5a-Androstane	15.12	15629013	40.000 ng
	System Monitoring Compounds			
2) S	para-Terphenyl	15.68	17088625	50.140 ng
Spiked Amount	50.000	Recovery	=	100.28%
	Target Compounds			
3)	Nonane C9	8.48	10546955	29.258 ng
4)	DECANE C10	9.42	12485318	34.457 ng
5)	DODECANE C12	10.83	13537912	37.045 ng
6)	TETRADECANE C14	11.97	13980219	37.594 ng
7)	HEXADECANE C 16	12.97	14460241	39.296 ng
8)	OCTADECANE C18	13.87	14560234	39.854 ng
9)	NONADECANE C19	14.28	14682569	40.226 ng
10)	EICOSANE C20	14.68	14770594	40.878 ng
11)	DOCOSANE C22	15.43	14777648	40.857 ng
12)	TETRACOSANE C24	16.11	14834447	41.774 ng
13)	HEXACOSANE C26	16.84	33216485	~~92.904 ng~~ 41.757
14)	OCTACOSANE C28	17.72	14760946	42.045 ng BMF 01/06/03
15)	TRIACONTANE C30	18.86	14466441	41.840 ng
16)	HEXATRIACONTANE C36	25.79	13504382	42.239 ng

C_{26} 92.904 - 51.147 = 41.757 (blank) Front column

LCS= 78%. BMF 01/06/03

1876

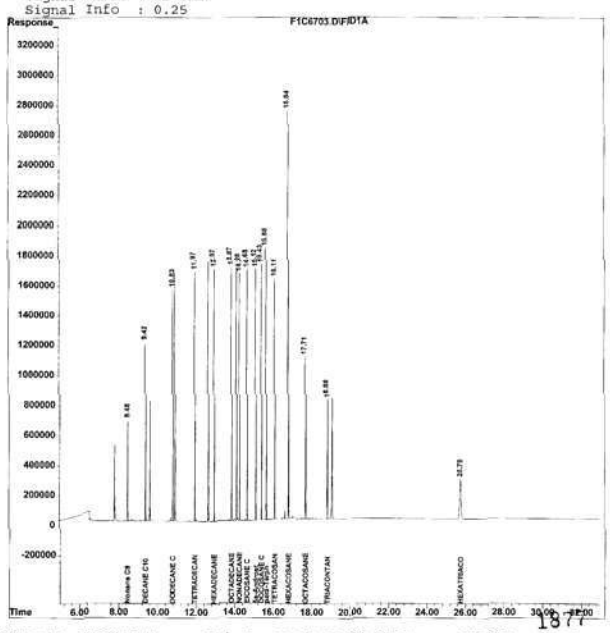
(f)=RT Delta > 1/2 Window (m)=manual int.
F1C6703.D ET0909F.M Fri Jan 03 12:39:15 2003 HPDOS9 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\DEC02\021231\F1C6703.D Vial: 6
Acq On : 12-31-02 21:01:19 PM Operator:
Sample : LCSD-4912 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 12:38 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\JAN03\030102\F1C6727.D Vial: 6
Acq On : 1-2-03 18:46:38 PM Operator:
Sample : LCS-4963 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 10:17 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5a-Androstane	15.12	15067601	40.000 ng
System Monitoring Compounds			
2) S para-Terphenyl	15.67	17103412	52.054 ng
Spiked Amount 50.000		Recovery =	104.11%
Target Compounds			
3) Nonane C9	8.48	9975908	28.705 ng
4) DECANE C10	9.42	12127376	34.716 ng
5) DODECANE C12	10.83	13465039	38.218 ng
6) TETRADECANE C14	11.97	14165211	39.511 ng
7) HEXADECANE C 16	12.97	14794128	41.701 ng
8) OCTADECANE C18	13.87	15009237	42.614 ng
9) NONADECANE C19	14.28	15171818	43.115 ng
10) EICOSANE C20	14.68	15258813	43.803 ng
11) DOCOSANE C22	15.42	15278762	43.816 ng
12) TETRACOSANE C24	16.11	15348793	44.833 ng
13) HEXACOSANE C26	16.84	15425101	44.750 ng
14) OCTACOSANE C28	17.71	15255027	45.071 ng
15) TRIACONTANE C30	18.85	14904603	44.713 ng
16) HEXATRIACONTANE C36	25.77	12464583	40.439 ng

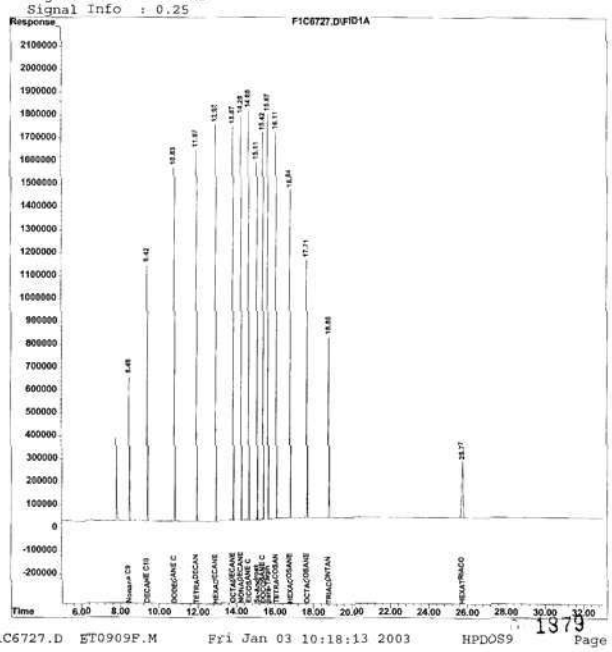
LCS = 82%
BMF
01/03/03

Quantitation Report

Data File : C:\HPCHEM\1\DATA\JAN03\030102\F1C6727.D Vial: 6
Acq On : 1-2-03 18:46:38 PM Operator:
Sample : LCS-4963 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 10:17 19103 Quant Results File: ET0909F.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909F.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:17:30 2003
Response via : Multiple Level Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\JAN03\030102\SECF1C6726.D Vial: 5
Acq On : 1-2-03 18:46:38 PM Operator:
Sample : LCSD-4963 Inst : F1
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 3 10:13 19103 Quant Results File: ET0909R.RES

Quant Method : O:\ORGANIC\SVOA\F1.I\METHODS\ET0909R.M (Chemstation Integr
Title : TPH-GC, Fuel ID, DRO
Last Update : Fri Jan 03 10:12:41 2003
Response via : Initial Calibration
DataAcq Meth : ETPH-B.M

Volume Inj. : 1
Signal Phase : DB-5MS
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
Internal Standards			
1) I 5a-Androstane	14.47	29175964	40.000 ng
System Monitoring Compounds			
2) S para-Terphenyl	15.06	30650130	47.849 ng
Spiked Amount 50.000		Recovery =	95.70%
Target Compounds			
3) Nonane C9	7.80	20743340	33.804 ng
4) DECANE C10	8.79	24461598	38.671 ng
5) DODECANE C12	10.23	26448681	41.292 ng
6) TETRADECANE C14	11.37	27407904	41.243 ng
7) HEXADECANE C 16	12.37	28446013	42.496 ng
8) OCTADECANE C18	13.26	28733932	42.565 ng
9) NONADECANE C19	13.68	29162229	42.760 ng
10) EICOSANE C20	14.07	29570155	43.412 ng
11) DOCOSANE C22	14.81	30212863	43.204 ng
12) TETRACOSANE C24	15.49	31088194	45.070 ng
13) HEXACOSANE C26	16.12	32109775	45.548 ng
14) OCTACOSANE C28	16.81	32359094	46.223 ng
15) TRIACONTANE C30	17.66	31652585	46.136 ng
16) HEXATRIACONTANE C36	22.52	19585282	38.092 ng

LCS = 84%
BMF
01/03/03

MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : SEMIVOLATILES

Date: 12-24-02 | Analysis: ETPH | Method & SOP #: Aq: 3510C (SepF) Soil: 3550B (Sonic) 3520C (Liq/Liq) 3540C (Soxhlet) Other: | Matrix: (Aqueous) Soil Wipe Oil Other: | Project(s): A1905

Blank ID: MB 4912 | LCS ID: LCS,LCSD 4912 | Analyst: BP | Spiked By: BP | Witness: B | Solvent Lot#: X13504 | H_2SO_4 Lot# | NaOH Lot# | Time Started: 1:00 | Time Ended: 2:00

Project ID	Sample ID	Sample Wt (g) / Vol (ml)	Surrogate Spike Added	Matrix Spike Added	H_2SO_4 pH<2	NaOH pH > 10	Emulsion	KD Prior to Fractionation Date / Analyst	Fractionation Date / Analyst	Final Concentration Date / Analyst		Final Conc. Volume	Date Extract Trans.
MB 4912	—	1000ml	05w02101BA 1ml		✓					12-28-02	TB	1ml	12-28-02
LCS 4912	—	↓	↓	05w02101BA 1ml	↓					↓	↓	↓	↓
LCSD 4912	—	↓	↓	05w02101BA 1ml	↓					↓	↓	↓	↓
A1905	026	1000ml	05w02101BA 1ml		✓					12-28-02	TB	1ml	12-28-02

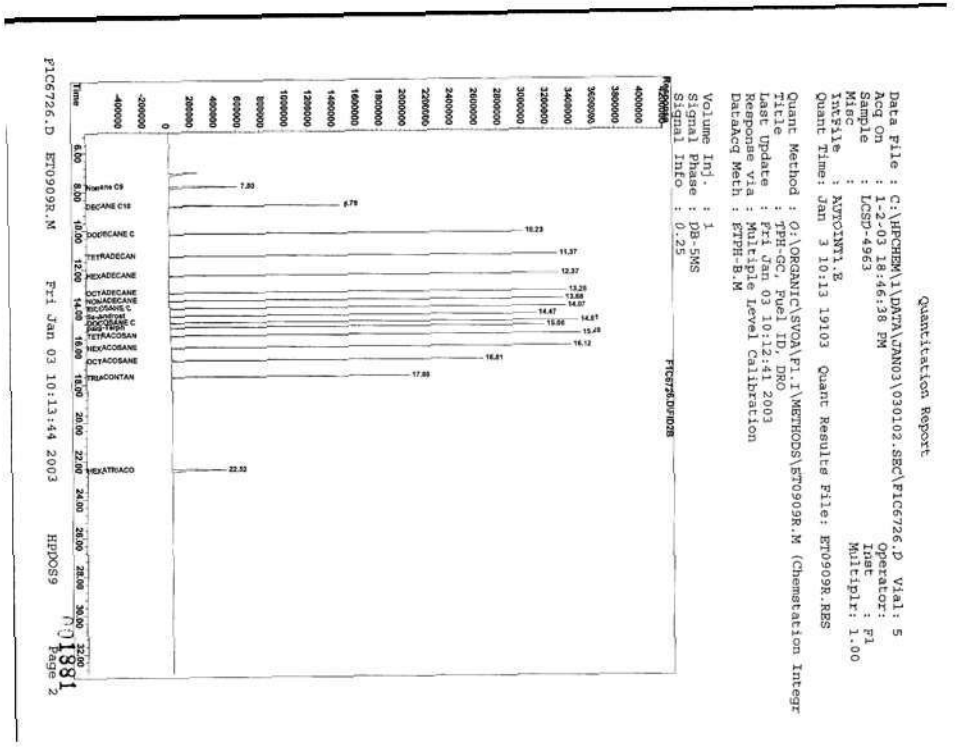
Comments:

Sonicator Tuned: Yes / No

Water Bath Temperature: _____

Logbookk ID 50.0147-5/02 | Reviewed By: _____ | Logbook Page 0003

001883



001881

MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : SEMIVOLATILES

Date: 12-31-02 | Analysis: ETPH | Method & SOP #: Aq: 3510C (SepF) Soil: 3550B (Sonic) 3520C (Liq/Liq) 3540C (Soxhlet) Other: | Matrix: Aqueous (Soil) Wipe Oil Other: | Project(s): A1905

Blank ID: MB 4963 | LCS ID: LCS,LCSD 4963 | Analyst: BP | Spiked By: BP | Witness: | Solvent Lot#: X13504 | H_2SO_4 Lot# | NaOH Lot# | Time Started: 1:00 | Time Ended: 1:00

Project ID	Sample ID	Sample Wt (g) / Vol (ml)	Surrogate Spike Added	Matrix Spike Added	H_2SO_4 pH<2	NaOH pH > 10	Emulsion	KD Prior to Fractionation Date / Analyst	Fractionation Date / Analyst	Final Concentration Date / Analyst		Final Conc. Volume	Date Extract Trans.
MB 4963	—	30.0	05w02101BA 1ml							12-31-02	BP	1ml	1-2-03
LCS 4963	—	30.0		05w02126BA 1ml									
LCSD 4963	—	30.0		05w02126BA 1ml									
A1905 MS	028	30.9											
↓	029	30.0											
A1905	030	30.3	05w02101BA 1ml							12-31-02	BP	1ml	1-2-03

N/A BP 1-2-03

Comments:

Sonicator Tuned: Yes / No

Water Bath Temperature: 40°C

Logbookk ID 50.0147-5/02 | Reviewed By: _____ 1-2-03 | Logbook Page 0011

001882

MITKEM CORPORATION ORGANIC PREP - SAMPLE PREPARATION : SEMIVOLATILES

Date: 12-26-02 | Analysis: ETPH | Method & SOP #: Aq: 3510C (SepF) Soil: 3550B (Sonic) 3520C (Liq/Liq) 3540C (Soxhlet) Other: | Matrix: (Aqueous) Soil Wipe Oil Other: | Project(s): A1905

Blank ID: MB 4924 | LCS ID: LCS,LCSD 4924 | Analyst: BP | Spiked By: BP | Witness: | Solvent Lot#: X13504 | H_2SO_4 Lot# | NaOH Lot# | Time Started: 23:00 | Time Ended: 23:00

Project ID	Sample ID	Sample Wt (g) / Vol (ml)	Surrogate Spike Added	Matrix Spike Added	H_2SO_4 pH<2	NaOH pH > 10	Emulsion	KD Prior to Fractionation Date / Analyst	Fractionation Date / Analyst	Final Concentration Date / Analyst		Final Conc. Volume	Date Extract Trans.
MB 4924	—	1000ml	05w02101BA 1ml		✓					12-28-02	TB	1ml	12-28-02
LCS 4924	—	↓	↓	05w02126BA 1ml	↓					↓	↓	↓	↓
LCSD 4924	—	↓	↓	05w02126BA 1ml	↓					↓	↓	↓	↓
A1905	014	1000ml	05w02101BA 1ml		↓					↓	↓	1ml	↓
↓	016	500ml	05w02101BA 500ml	↓	✓					↓	↓	½ml	↓
A1905	018	500ml	05w02101BA 500ml		✓					12-28-02	TB	½ml	12-28-02

BP 1-2-03

Comments:

Sonicator Tuned: Yes / No

Water Bath Temperature: _____

Logbookk ID 50.0147-5/02 | Reviewed By: _____ | Logbook Page 0004

001884

Percent Moisture and Percent Solids Report

Mitkem Sample ID	Client Sample ID	Analyzed	Percent Moisture	Percent Solids	Validated
A1905-04A	AOC3SSTB4902	12/31/2002	9	91	Yes
A1905-05A	AOC3SSTB5312	12/31/2002	7	93	Yes
A1905-06A	AOC3SSTB5402	12/31/2002	9	91	Yes
A1905-11A	AOC3SSD5A45	12/31/2002	9	91	Yes
A1905-12A	AOC3SSD5B45	12/31/2002	10	90	Yes
A1905-13A	AOC3SSTB4945	12/31/2002	11	89	Yes
A1905-15A	AOC5SSTB6267	12/31/2002	43	57	Yes
A1905-17A	AOC7SSTB6578	12/31/2002	43	57	Yes
A1905-19A	AOC5ASSTB6956	12/31/2002	11	89	Yes
A1905-20A	AOC5ASSD7A56	12/31/2002	8	92	Yes
A1905-21A	AOC5ASSD7B56	12/31/2002	8	92	Yes
A1905-22A	AOC6SSTB7167	12/31/2002	37	63	Yes
A1905-23A	AOC5ASSTB7002	12/31/2002	7	93	Yes
A1905-24A	AOC5ASSTB6978	12/31/2002	49	51	Yes
A1905-25A	AOC5ASSTB68015	12/31/2002	7	93	Yes
A1905-27A	AOC2TB5512	12/31/2002	8	92	Yes
A1905-28A	AOC2TB24	12/31/2002	9	91	Yes
A1905-29A	AOC2TB5802	12/31/2002	5	95	Yes
A1905-30A	AOC2TB57675	12/31/2002	11	89	Yes

001885

MITKEM CORPORATION EXTRACT TRANSFER LOGBOOK: SEMIVOLATILE ANALYSIS

Date Transferred from Prep Lab	Lab ID			Transferred By	Received By	Storage Location	Comments
12-31-02	MB-4922	—		PN	JC	R7	
1-2-03	MB-4966			PN	JC	R7	
	LCS-4966						
	LCSD-4966						
	A1912	01					
1-2-03	A1912	02		PN	JC	R7	
1-2-03	MB-4963	—	✓	PN	BMF	R12A	
	LCS-4963	—	✓				
	LCSD-4963	—	✓				
	A1905	28	✓				
		29	✓				
	A1905	30	✓				
	MB-4964	—	✓				
	LCS-4964	—	✓				
	LCSD-4964	—	✓				
	A1906	01	✓				
	A1906	02	✓				
	MB-4965	—	✓				
	LCS-4965	—	✓				
	LCSD-4965	—	✓				
	A1910	01	✓				
1-2-03	A1910	02	✓	PN	BMF	R12A	
1-2-03	A1882	01	✓	PN	BMF	R12A	
1-2-03	MB 4976			TB	JC	R7	
	LCS 4976						
	LCSD 4976						
	B0001	001					
		002					
		003					
		004					
		005					
		006					
		007					
	B0001	008					
1-2-03	B1872	001		TB	JC	R7	

Logbook ID 70.0141-1/02 Reviewed By: [signature] Logbook Page: 000046

001886

MITKEM CORPORATION EXTRACT TRANSFER LOGBOOK: SEMIVOLATILE ANALYSIS

Date Transferred from Prep Lab	Lab ID		Transferred By	Received By	Storage Location	Comments
12-28-02	A1905	002	TB	[initials]	R7	
		003				
		005				
		006				
		011				
		012				
		013				
12-28-02	A1905	018	TB	[initials]	R7	
12-28-02	MB 4912		TB	[initials]	R7	
	LCS 4912					
	LCSD 4912					
	MB 4924					
	LCS 4924					
	LCSD 4924					
	A1905	014				
		016				½ ml FV
		018				½ ml FV
12-28-02	A1905	026	TB	[initials]	R7	
12-29-02	MB 4875		TB	JC		
	LCS 4875					
	MB 4905					
	LCS 4905					
	A1892	001				
		002				
		003				
		004				
		005				
		006				
		006 MS				
		006 MSD				
		006 MS B				
		006 MSD B				
		007				
		009				
12-29-02	A1892	010	TB	JC		

Logbook ID 70.0141-1/02 Reviewed By: [signature] Logbook Page: 000045

001887

MITKEM CORPORATION: Sample Receipt Tracking Logbook

Project	Date Received	Client	Storage Location	#s/ Analyst/ Date In	#s/ Analyst/ Date Out	#s/ Analyst/ Date In	#s/ Analyst/ Date Out	#s/ Analyst/ Date In	#s/ Analyst/ Date Out	#s/ Analyst/ Date In	Dispose After	Date Disposed
A1901	12-21-02	TRMS	SUB C3	01-04-TCL 01-12-	1-4 [illegible] 12/24	1-4 [illegible] 12/24	1-4 12-23-02	1-4 12-23-02			2-21-03	
A1902	12-21-02	TETRA TECH	I Floor H3	01-15 01-08, 10/15							3-21-03	
A1903	12/23	Tyree	B2 metals M4	12/23 01-06	1-8, 10-5	Empty						
				01-06	1-6 BH 12/24	1-6 BH 12/24						
A1904	12/23	D+B	B1 VOA	12/23 01-06	1-5 [illegible]	Empty						
A1905	12/23	HRC	M3 B1 B2 VOA		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	

Logbook ID 30.0187-1/02 Reviewed By: [signature] Logbook page 33

001888

Mitkem Corporation: TPH/EPH Run Log

Date	Lab ID		Client	Method	Filename		Dilution	yes/no	Analyst	Comments
12/27/02	ETPH CCV			ETPH-B	FIC 66	76		✓	BMF	
	IBLK					78				
	MB-4931					80		✓		
	LCSD-4931					82		✓		
	A1896-	02A				84	20	✓		
	IBLK					86				
	ETPH CCV				FIC 66	88		✓		
	ETPH CCV				FIC 66	77		✓		
	IBLK					79				
	LCS-4931					81		✓		
	A1896-	02A				83	50	—		too dilute
	A1896-	02A				85	10	—		not dilute enough
	IBLK					87				
12/27/02	ETPH CCV			ETPH-B	FIC 66	89		✓	BMF	
12/31/02	SV IS				FIC 66	90				
	SV IS					92				
	SV IS					94				
	ETPH CCV					96		✓		
	IBLK				FIC 66	98				
	MB-4912				FIC 67	00		✓		
	LCS-4912					02		✓		
	LCS-4924					04		✓		
	A1905-	14C				06		✓		
12/31/02	A1905-	18D		ETPH-B	FIC 67	08		✓	BMF	

Logbook ID: 60.0177-1/02 Reviewed by _____ Logbook page 000018

01891

MITKEM CORPORATION: TPH/EPH Run Logbook

Date	Lab ID	Client	Method	Filename	Dilution	yes/no	Analyst	Comments
9/6/02	ETPH L1A		ETPH-B	FIC 5083		✓	BMF	
	L1			85		✓		
	L2			87		✓		
	L3			89		✓		
	L4			91		✓		
	L5			93		✓		
	ETPH 2S			95		✓		
	IBLK			97				
	F0821- BW1			99		✓		
	F0821- LW1			FIC 5101		✓		
	F0821-LWD			03		✓		
	A1243-01C			05		✓		
	02E			07		✓		
	03E			09		✓		
	04E			11		✓		
	06D			13		✓		
	07D			15		✓		
	A1243-08D			17		✓		
	IBLK			19				
	ETPH CCV			21		✓		
	IBLK			23				
	A1243-10D			25		✓		
	A1243-11D			27		✓		
	A1243-14B			29		✓		
9/6/02	A1243-15D		ETPH-B	FIC 5131		✓	BMF	

QAT00148 1888

9PB-12 Reviewed By: _____ Page: 000057

Mitkem Corporation: TPH/EPH Run Log

Date	Lab ID		Client	Method	Filename		Dilution	yes/no	Analyst	Comments
12/31/02	IBLK			ETPH-B	FIC 67	10			BMF	
12/31/02	ETPH CCV				FIC 67	12		✓		
12/31/02	SV IS				FIC 66	91				
	SV IS					93				
	SV IS					95				
	ETPH CCV					97		✓		
	IBLK					99				
	MB-4924				FIC 67	01		✓		
	LCSD-4912					03		✓		
	LCSD-4924					05		✓		
	A1905-	16D				07		✓		
	A1905-	26B				09		✓		
	IBLK					11				
12/31/02	ETPH CCV			ETPH-B	FIC 67	13		✓	BMF	
1/2/03	ETPH CCV				FIC 67	14		✓		
	IBLK					16				
	A1882-	01A				18		✓		10mL Final Volume
	IBLK					20				
	MB-4963					22		✓		
	MB-4965					24		✓		
	LCSD-4963					26		✓		
	~~LCSD-4965~~	1/2/03	LCSD-4964			28		✓		
	LCSD-4965					30		✓		
1/2/03	A1905-	29A		ETPH-B	FIC 67	32		✓	BMF	

Logbook ID: 60.0177-1/02 Reviewed by _____ Logbook page 000019

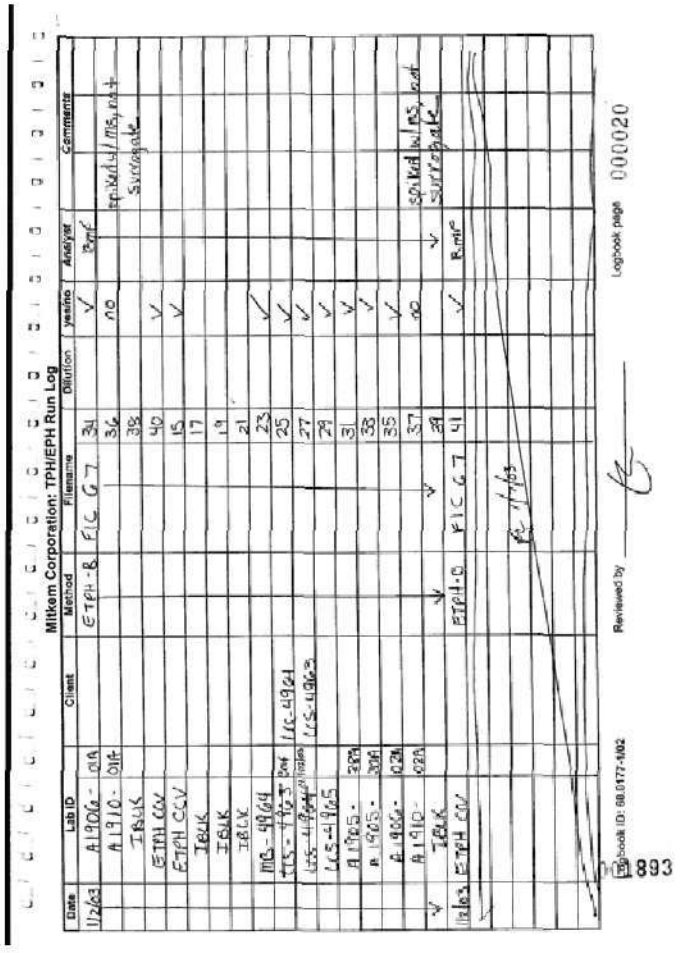
01892

MITKEM CORPORATION: TPH/EPH Run Logbook

Date	Lab ID	Client	Method	Filename	Dilution	yes/no	Analyst	Comments
9/5/02	ETPH CCV		ETPH-B	FIC 5044		✓	BMF	
	IBLK			46				
	F0903-BS1			48		✓		
	F0903-LS1			50		✓		
	F0903-LSDUP			52		✓		
	MB-3182			54		✓		
	LCS-3182			56		✓		
	LCSD-3182			58		✓		
	A1280-01A			60		✓		
	A1280-02A			62		✓		FV=10mL
	A1280-03A			64		✓		FV=10mL
	A1312-01A			66		ND		
	IBLK			68				
9/5/02	ETPH CCV		ETPH-B	FIC 5070		✓	BMF	
	IBLK			72				
	A1312-01A			74	10	✓		
	IBLK			76				
9/5/02	ETPH CCV		ETPH-B	FIC 5078		✓	BMF	Resx ICAL
9/6/02	ETPH L1A		ETPH-B	FIC 5084		✓		good BMF 9/9/02
	L1			86		✓		
	L2			88		✓		
	L3			90		✓		
	L4			92		✓		
	L5			94		✓		
9/6/02	ETPH 2S		ETPH-B	FIC 5096		✓	BMF	

QAT00146 1890

9PB-12 Reviewed By: _____ Page: 000055



Mitkem Corporation: TPH/EPH Run Log

Date	Lab ID	Client	Method	Filename	Dilution	yes/no	Analyst	Comments
1/2/03	A1906 - 01A		ETPH - B	FIC G 7	34	√	Rmf	
	A1910 - 01A				36	no		Epsilon1 MS, no + surrogate
	TBLK				38			
	ETPH CCV				40	√		
	ETPH CCV				15	√		
	TBLK				17			
	TBLK				19			
	TBLK				21			
	MB - 49964				23	√		
	LCS - 49963 Pnt	LLC-4996			25	√		
	LCSD-49963	LLC-4996			27	√		
	LCS-49965				29	√		
	A1905 - 38A				31	√		
	A1905 - 38AD				33	√		
	A1906 - 02A				35	√		
	A1910 - 02A				37	no		spiked but MS, not surrogate
√	TBLK		√	√	39	√		
Index	ETPH CCV		ETPH-B	FIC G 7	41	√	Rmf	

Logbook page 000020

Reviewed by

Logbook ID: 08.0177-4/02

001893

MITKEM CORPORATION

* Metals *

Total + SPLP

001894

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

SOW No.: ILM04.0

EPA Sample No.	Lab Sample ID
AOC2E6	A1905-26A
AOC2E6D	A1905-26AD
AOC2E6S	A1905-26AS
AOC2TB24	A1905-28A
AOC2TB24D	A1905-28AD
AOC2TB24S	A1905-28AS
AOC3BB3	A1905-07A
AOC3BB4	A1905-08A
AOC3CTCP6	SPLPA1905-01D
AOC3CTCP6	A1905-01D
AOC3CTCP7	SPLPA1905-02D
AOC3CTCP7	A1905-02D
AOC3CTCP8	SPLPA1905-03D
AOC3CTCP8	A1905-03D
AOC3E5	A1905-10A
AOC3SSTB5402	A1905-06C
AOC5A88TB68015	A1905-25C
AOC5E7	A1905-14B
AOC5SSTB6267	A1905-15C
AOC5WTB62W	A1905-16B

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES

If yes - were raw data generated before application of background corrections ? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name: REINHOLD A. COVERT

Date: 01/10/03 Title: CHEMIST

COVER PAGE - IN SW846

001895

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

SOW No.: ILM04.0

EPA Sample No.	Lab Sample ID
AOC2E6	A1905-26A
AOC2E6D	A1905-26AD
AOC2E6S	A1905-26AS
AOC2TB5624	A1905-28A
AOC2TB5624D	A1905-28AD
AOC2TB5624S	A1905-28AS
AOC3BB3	A1905-07A
AOC3BB4	A1905-08A
AOC3CTCP6	SPLPA1905-01D
AOC3CTCP6	A1905-01D
AOC3CTCP7	SPLPA1905-02D
AOC3CTCP7	A1905-02D
AOC3CTCP8	SPLPA1905-03D
AOC3CTCP8	A1905-03D
AOC3E5	A1905-10A
AOC3SSTB5402	A1905-06C
AOC5A88TB68015	A1905-25C
AOC5E7	A1905-14B
AOC5SSTB6267	A1905-15C
AOC5WTB62W	A1905-16B

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES

If yes - were raw data generated before application of background corrections ? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name: REINHOLD A. COVERT

Date: 01/10/03 Title: CHEMIST

COVER PAGE - IN SW846

001895R

1/10/03

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

SOW No.: ILM04.0

EPA Sample No.	Lab Sample ID
AOC5WTB02W	A1905-16C
AOC05STB7107	A1905-22C
AOC7WTB65GW	A1905-18B
AOC7WTB05GW	A1905-18C

Were ICP interelement corrections applied? Yes/No: YES

Were ICP background corrections applied? Yes/No: YES

If yes - were raw data generated before application of background corrections? Yes/No: NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name: Program Accountant

Date: 07/16/03 Title:

COVER PAGE - IN SW846

001896

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2E6

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): WATER Lab Sample ID: A1905-26A

Level (low/med): MED Date Received: 12/23/02

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13.5	B		P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	7.0	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	75.0	U		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	25.0	U		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	25.0	U		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.04	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	89.0	U		P
7782-49-2	Selenium	3.0	U		P
7440-22-4	Silver	5.3	B		P
7440-23-5	Sodium	118	U		P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

001897

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2TB24

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): SOIL Lab Sample ID: A1905-28A

Level (low/med): MED Date Received: 12/23/02

% Solids: 91.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	19300			P
7440-36-0	Antimony	1.7		N	P
7440-38-2	Arsenic	8.4		E	P
7440-39-3	Barium	183		E*	P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.85			P
7440-70-2	Calcium	3750			P
7440-47-3	Chromium	77.6			P
7440-48-4	Cobalt	16.9			P
7440-50-8	Copper	41.8			P
7439-89-6	Iron	40100			P
7439-92-1	Lead	12.1		E	P
7439-95-4	Magnesium	11600			P
7439-96-5	Manganese	752		E	P
7439-97-6	Mercury	0.017	U		CV
7440-02-0	Nickel	46.0		E	P
7440-09-7	Potassium	7980			P
7782-49-2	Selenium	0.41	U	N	P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	277			P
7440-28-0	Thallium	0.20	U		P
7440-62-2	Vanadium	70.4			P
7440-66-6	Zinc	76.3		E	P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

001898

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC2TB5624

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): SOIL Lab Sample ID: A1905-28A

Level (low/med): MED Date Received: 12/23/02

% Solids: 91.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	19300			P
7440-36-0	Antimony	1.7		N	P
7440-38-2	Arsenic	8.4		E	P
7440-39-3	Barium	183		E*	P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.85			P
7440-70-2	Calcium	3750			P
7440-47-3	Chromium	77.6			P
7440-48-4	Cobalt	16.9			P
7440-50-8	Copper	41.8			P
7439-89-6	Iron	40100			P
7439-92-1	Lead	12.1		E	P
7439-95-4	Magnesium	11600			P
7439-96-5	Manganese	752		E	P
7439-97-6	Mercury	0.017	U		CV
7440-02-0	Nickel	46.0		E	P
7440-09-7	Potassium	7980			P
7782-49-2	Selenium	0.41	U	N	P
7440-22-4	Silver	0.10	U		P
7440-23-5	Sodium	277			P
7440-28-0	Thallium	0.20	U		P
7440-62-2	Vanadium	70.4			P
7440-66-6	Zinc	76.3		E	P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

001898R
2/4/05

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC3BB3

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): WATER Lab Sample ID: A1905-07A

Level (low/med): MED Date Received: 12/23/02

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12.0	U		P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	7.3	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	76.0	U		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	3.6	B		P
7439-89-6	Iron	35.0	U		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	23.0	U		P
7439-96-5	Manganese	2.0	U		P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	89.0	U		P
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	3.4	B		P
7440-23-5	Sodium	676	B		P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

001899

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC3BB4

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): WATER Lab Sample ID: A1905-08A

Level (low/med): MED Date Received: 12/23/02

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12.0	U		P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	5.7	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	76.0	U		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	3.5	B		P
7439-89-6	Iron	190	B		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	23.0	U		P
7439-96-5	Manganese	2.4	B		P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	89.0	U		P
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	3.8	B		P
7440-23-5	Sodium	629	B		P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

001900

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC3CTCP6

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): WATER Lab Sample ID: SPLPA1905-01D

Level (low/med): MED Date Received: 12/23/02

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	45.7	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	8.4	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	5.4	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	1.0	U		CV
7440-02-0	Nickel	5.0	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	7.3	B		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium	10.4	B		P
7440-66-6	Zinc	9.5	B		P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

SPLP_METALS FOR SAMPLE AOC3CTCP6

FORM I - IN SW846

001901

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC3CTCP6

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): WATER Lab Sample ID: SPLPA1905-01D

Level (low/med): MED Date Received: 12/23/02

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron				NR
7440-31-5	Tin	38.0	U		P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

SPLP METALS FOR SAMPLE AOC3CTCP6

FORM I - IN SW846

001902

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC3CTCP6

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): SOIL Lab Sample ID: A1905-01D

Level (low/med): MED Date Received: 12/23/02

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	1.3		F	P
7440-39-3	Barium	34.9		F*	P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.096	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	6.8			P
7440-48-4	Cobalt	1.8	B		P
7440-50-8	Copper	14.3			P
7439-89-6	Iron				NR
7439-92-1	Lead	2.7		F	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.11			CV
7440-02-0	Nickel	5.2		F	P
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.38	U	N	P
7440-22-4	Silver	0.096	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium	6.0			P
7440-66-6	Zinc	28.2		E	P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

001903

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC3CTCP6

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): SOIL Lab Sample ID: A1905-01D

Level (low/med): MED Date Received: 12/23/02

% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron				NR
7440-31-5	Tin	1.8	U		P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

001904

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC3CTCP7

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): WATER Lab Sample ID: SPLPA1905-02D

Level (low/med): MED Date Received: 12/23/02

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	98.2	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	4.6	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.7	B		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	1.0	U		CV
7440-02-0	Nickel	1.1	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	6.0	B		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	11.1	B		P
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

SPLP_METALS_FOR_SAMPLE_AOC3CTCP7

FORM I - IN SW846

001905

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.: AOC3CTCP7

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): WATER Lab Sample ID: SPLPA1905-02D

Level (low/med): MED Date Received: 12/23/02

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron				NR
7440-31-5	Tin	38.0	U		P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

SPLP_METALS_FOR_SAMPLE_AOC3CTCP7

FORM I - IN SW846

001906

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP7

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): SOIL Lab Sample ID: A1905-02D
Level (low/med): MED Date Received: 12/23/02
% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	1.7		E	P
7440-39-3	Barium	32.8		E*	P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.095	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	8.1			P
7440-48-4	Cobalt	1.9	B		P
7440-50-8	Copper	13.9			P
7439-89-6	Iron				NR
7439-92-1	Lead	2.7		E	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.014	U		CV
7440-02-0	Nickel	5.7		E	P
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.38	U	N	P
7440-22-4	Silver	0.095	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium	7.2			P
7440-66-6	Zinc	27.6		E	P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

001907

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP7

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): SOIL Lab Sample ID: A1905-02D
Level (low/med): MED Date Received: 12/23/02
% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron				NR
7440-31-5	Tin	1.8	U		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

001908

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP8

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): WATER Lab Sample ID: SPLPA1905-03D
Level (low/med): MED Date Received: 12/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	94.5	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	6.1	B		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron				NR
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	1.0	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	4.9	B		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	12.3	B		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:
SPLP_METALS_FOR_SAMPLE_AOC3CTCP8

FORM I - IN SW846

001909

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP8

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): WATER Lab Sample ID: SPLPA1905-03D
Level (low/med): MED Date Received: 12/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron				NR
7440-31-5	Tin	38.0	U		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:
SPLP_METALS_FOR_SAMPLE_AOC3CTCP8

FORM I - IN SW846

001910

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP8

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): SOIL Lab Sample ID: A1905-03D
Level (low/med): MED Date Received: 12/23/02
% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	1.6		E	P
7440-39-3	Barium	33.2		E*	P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	0.097	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	9.4			P
7440-48-4	Cobalt	2.4	B		P
7440-50-8	Copper	16.8			P
7439-89-6	Iron				NR
7439-92-1	Lead	4.3		E	P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	0.015	U		CV
7440-02-0	Nickel	7.5		E	P
7440-09-7	Potassium				NR
7782-49-2	Selenium	0.75	B	N	P
7440-22-4	Silver	0.097	U		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium	7.9			P
7440-66-6	Zinc	39.5		E	P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3CTCP8

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): SOIL Lab Sample ID: A1905-03D
Level (low/med): MED Date Received: 12/23/02
% Solids: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron				NR
7440-31-5	Tin	1.8	U		P

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3E5

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): WATER Lab Sample ID: A1905-10A
Level (low/med): MED Date Received: 12/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14.4	B		P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	10.1	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	76.0	U		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	148	B		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	23.0	U		P
7439-96-5	Manganese	5.1	B		P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	89.0	U		P
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	3.7	B		P
7440-23-5	Sodium	118	U		P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC3SSTB5402

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): SOIL Lab Sample ID: A1905-06C
Level (low/med): MED Date Received: 12/23/02
% Solids: 91.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15400			P
7440-36-0	Antimony	0.93	B	N	P
7440-38-2	Arsenic	9.0		E	P
7440-39-3	Barium	158		E*	P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.54			P
7440-70-2	Calcium	4340			P
7440-47-3	Chromium	42.0			P
7440-48-4	Cobalt	10.5			P
7440-50-8	Copper	20.0			P
7439-89-6	Iron	19000			P
7439-92-1	Lead	9.4		E	P
7439-95-4	Magnesium	7110			P
7439-96-5	Manganese	636		E	P
7439-97-6	Mercury	0.016	U		CV
7440-02-0	Nickel	23.4		E	P
7440-09-7	Potassium	3800			P
7782-49-2	Selenium	0.41	U	N	P
7440-22-4	Silver	0.23	B		P
7440-23-5	Sodium	571			P
7440-28-0	Thallium	0.20	U		P
7440-62-2	Vanadium	41.3			P
7440-66-6	Zinc	46.7		E	P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5ASSTB68015

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): SOIL Lab Sample ID: A1905-25C
Level (low/med): MED Date Received: 12/23/02
% Solids: 93.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron	10200			P
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

001915

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5E7

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): WATER Lab Sample ID: A1905-14B
Level (low/med): MED Date Received: 12/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	30.7	B		P
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	101	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	10100			P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	84.7	B		P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	635			P
7439-96-5	Manganese	4.6	B		P
7439-97-6	Mercury	0.27	B		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	780	B		P
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	7.8	B		P
7440-23-5	Sodium	8760			P
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

001916

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5SSTB6267

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): SOIL Lab Sample ID: A1905-15C
Level (low/med): MED Date Received: 12/23/02
% Solids: 57.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	23200			P
7440-36-0	Antimony	1.4	B	N	P
7440-38-2	Arsenic	5.3		E	P
7440-39-3	Barium	45.4		E*	P
7440-41-7	Beryllium	1.0			P
7440-43-9	Cadmium	0.23	B		P
7440-70-2	Calcium	2430			P
7440-47-3	Chromium	21.2			P
7440-48-4	Cobalt	4.0	B		P
7440-50-8	Copper	9.8			P
7439-89-6	Iron	13600			P
7439-92-1	Lead	14.3		E	P
7439-95-4	Magnesium	4770			P
7439-96-5	Manganese	121		E	P
7439-97-6	Mercury	0.10			CV
7440-02-0	Nickel	13.2		E	P
7440-09-7	Potassium	1480			P
7782-49-2	Selenium	0.69	U	N	P
7440-22-4	Silver	0.45	B		P
7440-23-5	Sodium	2240			P
7440-28-0	Thallium	2.0			P
7440-62-2	Vanadium	32.2			P
7440-66-6	Zinc	39.1		E	P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

001917

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5WTB62W

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): WATER Lab Sample ID: A1905-16B
Level (low/med): MED Date Received: 12/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	179			P
7440-39-3	Barium	1320			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	12.9			P
7440-70-2	Calcium				NR
7440-47-3	Chromium	626			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	981			P
7439-89-6	Iron	374000			P
7439-92-1	Lead	316			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	4160			P
7439-97-6	Mercury	0.80			CV
7440-02-0	Nickel	452			P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	5.4	B		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	904			P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:
TOTAL_METALS_FOR_SAMPLE: AOC5WTB62W

FORM I - IN SW846

001918

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5WTB62W

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): WATER Lab Sample ID: A1905-16B
Level (low/med): MED Date Received: 12/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	2920			P
7440-31-5	Tin				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:
TOTAL_METALS_FOR_SAMPLE AOC5WTB62W

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5WTB62W

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): WATER Lab Sample ID: A1905-16C
Level (low/med): MED Date Received: 12/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	6.9	B		P
7440-39-3	Barium	34.5	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.5	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	6420			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	712			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	3.2	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	6.4	B		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	10	B		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:
DISSOLVED_METALS_FOR_SAMPLE AOC5WTB62W

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5WTB62W

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): WATER Lab Sample ID: A1905-16C
Level (low/med): MED Date Received: 12/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	2570			P
7440-31-5	Tin				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:
DISSOLVED_METALS_FOR_SAMPLE AOC5WTB62W

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC5SSTB6267

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): SOIL Lab Sample ID: A1905-15C
Level (low/med): MED Date Received: 12/23/02
% Solids: 57.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	23200			P
7440-36-0	Antimony	1.4	B	N	P
7440-38-2	Arsenic	5.3		E	P
7440-39-3	Barium	45.4		E*	P
7440-41-7	Beryllium	1.0			P
7440-43-9	Cadmium	0.23	B		P
7440-70-2	Calcium	2430			P
7440-47-3	Chromium	21.2			P
7440-48-4	Cobalt	4.0	B		P
7440-50-8	Copper	9.8			P
7439-89-6	Iron	13600			P
7439-92-1	Lead	14.3		E	P
7439-95-4	Magnesium	4770			P
7439-96-5	Manganese	121		E	P
7439-97-6	Mercury	0.10			CV
7440-02-0	Nickel	13.2		E	P
7440-09-7	Potassium	1480			P
7782-49-2	Selenium	0.69	U	N	P
7440-22-4	Silver	0.45	B		P
7440-23-5	Sodium	2240			P
7440-28-0	Thallium	2.0			P
7440-62-2	Vanadium	32.2			P
7440-66-6	Zinc	39.1		E	P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC6SSTB7167

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): SOIL Lab Sample ID: A1905-22C
Level (low/med): MED Date Received: 12/23/02
% Solids: 63.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron	8950			P
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

001923

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC7WTB65GW

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): WATER Lab Sample ID: A1905-18B
Level (low/med): MED Date Received: 12/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	4.3	B		P
7440-39-3	Barium	29.0	B		P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper	2.0	U		P
7439-89-6	Iron	6460			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	1130			P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	2.0	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	5.3	B		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	8.0	U		P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:
DISSOLVED_METALS_FOR_SAMPLE_AOC7WTB65GW

FORM I - IN SW846

001924

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC7WTB65GW

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): WATER Lab Sample ID: A1905-18B
Level (low/med): MED Date Received: 12/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	1000			P
7440-31-5	Tin				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:
DISSOLVED_METALS_FOR_SAMPLE_AOC7WTB65GW

FORM I - IN SW846

001925

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC7WTB65GW

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): WATER Lab Sample ID: A1905-18C
Level (low/med): MED Date Received: 12/23/02
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic	44.3			P
7440-39-3	Barium	535			P
7440-41-7	Beryllium				NR
7440-43-9	Cadmium	4.0	B		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	254			P
7440-48-4	Cobalt				NR
7440-50-8	Copper	407			P
7439-89-6	Iron	168000			P
7439-92-1	Lead	121			P
7439-95-4	Magnesium				NR
7439-96-5	Manganese	2860			P
7439-97-6	Mercury	0.18	B		CV
7440-02-0	Nickel	213			P
7440-09-7	Potassium				NR
7782-49-2	Selenium	8.0	U		P
7440-22-4	Silver	8.1	B		P
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc	400			P
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:
TOTAL_METALS_FOR_SAMPLE_AOC7WTB65GW

FORM I - IN SW846

001926

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
AOC7WTB65GW

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): WATER Lab Sample ID: A1905-18C

Level (low/med): MED Date Received: 12/23/02

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-42-8	Boron	1450			P
7440-31-5	Tin				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:
TOTAL_METALS FOR SAMPLE_AOC7WTB65GW

FORM I - IN SW846

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Initial Calibration Source: INORG_VENTURES

Continuing Calibration Source: INORG_VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum	10000.0	9855.11	98.6	10000.0	9834.84	98.3	9914.07	99.1	P
Antimony	500.0	539.49	107.9	500.0	528.38	105.7	518.91	103.8	P
Arsenic	500.0	521.80	104.4	500.0	528.90	105.8	538.57	107.7	P
Barium	10000.0	10546.79	105.5	10000.0	10646.16	106.5	10774.60	107.7	P
Beryllium	250.0	249.31	99.7	250.0	252.80	101.1	249.77	99.9	P
Cadmium	250.0	256.32	102.5	250.0	255.92	102.4	255.51	102.2	P
Calcium	25000.0	24289.28	97.2	25000.0	24252.97	97.0	24180.22	96.7	P
Chromium	1000.0	1002.59	100.3	1000.0	999.63	100.0	1001.17	100.1	P
Cobalt	2500.0	2562.75	102.5	2500.0	2526.39	101.1	2493.36	99.7	P
Copper	1250.0	1277.09	102.2	1250.0	1254.27	100.3	1258.64	100.7	P
Iron	5000.0	5054.14	101.1	5000.0	5071.12	101.4	5099.12	102.0	P
Lead	500.0	511.96	102.4	500.0	516.34	103.3	519.68	103.9	P
Magnesium	25000.0	25211.64	100.8	25000.0	25199.97	100.8	25279.32	101.1	P
Manganese	2500.0	2522.74	100.9	2500.0	2581.71	103.3	2650.70	106.0	P
Mercury	5.0	5.07	101.4	5.0	5.02	100.4	5.11	102.2	CV
Nickel	2500.0	2558.35	102.3	2500.0	2585.29	103.4	2644.90	105.8	P
Potassium	25000.0	24625.26	98.5	25000.0	24299.33	97.2	23885.25	95.5	P
Selenium	500.0	507.63	101.5	500.0	503.78	100.8	498.68	99.7	P
Silver	1250.0	1249.95	100.0	1250.0	1237.19	99.0	1224.72	98.0	P
Sodium	25000.0	25321.06	101.3	25000.0	23947.00	95.8	24084.16	96.3	P
Thallium	500.0	517.43	103.5	500.0	516.31	103.3	515.90	103.2	P
Vanadium	2500.0	2487.97	99.5	2500.0	2485.59	99.4	2508.84	100.4	P
Zinc	2500.0	2553.78	102.2	2500.0	2547.74	101.9	2540.49	101.6	P
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

Form II (PART 1) - IN SW846

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Initial Calibration Source: INORG_VENTURES

Continuing Calibration Source: INORG_VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Boron	2500.0	2360.99	94.4	2000.0	2354.92	117.7	2282.91	114.1	P
Tin	1000.0	968.16	96.8	1000.0	954.40	95.4	931.66	93.2	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

Form II (PART 1) - IN SW846

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Initial Calibration Source:

Continuing Calibration Source: INORG_VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	9763.61	97.6	9736.07	97.4	P
Antimony				500.0	512.50	102.5	503.66	100.7	P
Arsenic				500.0	542.04	108.4	552.74	110.5	P
Barium				10000.0	10755.76	107.6	10880.19	108.8	P
Beryllium				250.0	250.90	100.4	247.92	99.2	P
Cadmium				250.0	253.16	101.3	251.70	100.7	P
Calcium				25000.0	24023.22	96.1	23968.83	95.9	P
Chromium				1000.0	990.51	99.1	988.19	98.8	P
Cobalt				2500.0	2448.78	98.0	2399.63	96.0	P
Copper				1250.0	1237.25	99.0	1227.70	98.2	P
Iron				5000.0	5048.04	101.0	5061.60	101.2	P
Lead				500.0	522.20	104.4	525.99	105.2	P
Magnesium				25000.0	25106.36	100.4	25175.44	100.7	P
Manganese				2500.0	2670.40	106.8	2749.22	110.0	P
Mercury				5.0	5.04	100.8			CV
Nickel				2500.0	2653.94	106.2	2716.59	108.7	P
Potassium				25000.0	23996.87	96.0			P
Selenium				500.0	492.93	98.6	487.22	97.4	P
Silver				1250.0	1197.39	95.8	1174.13	93.9	P
Sodium				25000.0	24051.47	96.2			P
Thallium				500.0	515.13	103.0	515.31	103.1	P
Vanadium				2500.0	2484.97	99.4	2494.42	99.8	P
Zinc				2500.0	2522.53	100.9	2518.27	100.7	P
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

Form II (PART 1) - IN SW846

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Initial Calibration Source: INORG_VENTURES

Continuing Calibration Source: INORG_VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000.0	9823.61	98.2	9599.36	96.0	P
Antimony				500.0	502.06	100.4	496.37	99.3	P
Arsenic				500.0	551.71	110.3	550.13	110.0	P
Barium				10000.0	10963.16	109.6	10768.02	107.7	P
Beryllium				250.0	247.07	98.8	244.38	97.8	P
Cadmium				250.0	252.96	101.2	247.83	99.1	P
Calcium				25000.0	23949.84	95.8	23817.91	95.3	P
Chromium				1000.0	993.28	99.3	971.78	97.2	P
Cobalt				2500.0	2400.36	96.0	2345.53	93.8	P
Copper				1250.0	1233.49	98.7	1206.28	96.5	P
Iron				5000.0	5125.91	102.5	5031.49	100.6	P
Lead				500.0	525.93	105.2	522.30	104.5	P
Magnesium				25000.0	25272.06	101.1	24828.87	99.3	P
Manganese				2500.0	2779.88	111.2	2739.70	109.6	P
Mercury	5.0	4.99	99.8	5.0	4.97	99.4	4.87	97.4	CV
Nickel				2500.0	2729.98	109.2	2695.69	107.8	P
Potassium									
Selenium				500.0	485.34	97.1	482.85	96.6	P
Silver				1250.0	1181.57	94.5	1146.96	91.8	P
Sodium									
Thallium				500.0	513.97	102.8	509.81	102.0	P
Vanadium				2500.0	2508.63	100.3	2459.78	98.4	P
Zinc				2500.0	2514.04	100.6	2478.14	99.1	P
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Initial Calibration Source: INORG_VENTURES

Continuing Calibration Source: INORG_VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron	5000.0	5110.29	102.2	5000.0	5197.46	103.9	5204.67	104.1	P
Lead									
Magnesium									
Manganese	2500.0	2552.46	102.1	2500.0	2575.88	103.0	2536.84	101.5	P
Mercury				5.0	4.79	95.8	4.83	96.6	CV
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Initial Calibration Source:

Continuing Calibration Source: INORG_VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron				5000.0	5199.35	104.0	5166.08	103.3	P
Lead									
Magnesium									
Manganese				2500.0	2537.80	101.5	2489.84	99.6	P
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Initial Calibration Source:

Continuing Calibration Source: INORG_VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron				5000.0	5149.26	103.0			P
Lead									
Magnesium									
Manganese				2500.0	2483.01	99.3			P
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	12.0	U	12.0	U	15.0	B	13.4	B	34.482	B	P
Antimony	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Arsenic	3.4	B	3.0	U	3.0	U	3.0	U	3.000	U	P
Barium	3.0	U	3.0	U	3.0	U	3.0	U	7.501	B	P
Beryllium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Cadmium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Calcium	76.0	U	76.0	U	76.0	U	76.0	U	76.000	U	P
Chromium	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Cobalt	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Copper	9.0	B	3.0	B	2.1	B	2.0	U	11.563	B	P
Iron	35.0	U	35.0	U	35.0	U	35.0	U	35.000	U	P
Lead	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Magnesium	23.0	U	23.0	U	23.0	U	23.0	U	29.916	B	P
Manganese	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.100	U	CV
Nickel	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Potassium	268.4	B	89.0	U	89.0	U	89.0	U	106.712	B	P
Selenium	8.0	U	8.0	U	8.0	U	8.0	U	8.000	U	P
Silver	2.0	U	2.0	U	2.0	U	2.0	U	3.406	B	P
Sodium	118.0	U	-327.0	B	-435.2	B	-396.9	B	118.000	U	P
Thallium	4.0	U	4.0	U	4.0	U	4.0	U	4.000	U	P
Vanadium	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Zinc	8.0	U	8.0	U	8.0	U	8.0	U	8.000	U	P
Cyanide											

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Boron	130.0	U	130.0	U	130.0	U			130.000	U	P
Tin	38.0	U	38.0	U	38.0	U			38.000	U	P

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			19.4	B	16.1	B	19.9	B	12.000	U	P
Antimony			3.0	U	3.0	U	3.0	U	3.000	U	P
Arsenic			3.0	U	3.0	U	3.0	U	3.000	U	P
Barium			3.0	U	3.0	U	3.0	U	30.852	B	P
Beryllium			2.0	U	2.0	U	2.0	U	2.000	U	P
Cadmium			2.0	U	2.0	U	2.0	U	2.000	U	P
Calcium			76.0	U	76.0	U	76.0	U	76.000	U	P
Chromium			3.0	U	3.0	U	3.0	U	3.000	U	P
Cobalt			3.0	U	3.0	U	3.0	U	3.000	U	P
Copper			2.0	U	2.0	U	2.1	B	5.728	B	P
Iron			35.0	U	35.0	U	35.0	U	43.434	B	P
Lead			-1.0	B	1.0	U	1.0	U	1.000	U	P
Magnesium			23.0	U	23.0	U	23.0	U	23.000	U	P
Manganese			2.0	U	2.0	U	2.0	U	2.000	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	1.000	U	CV
Nickel			1.0	U	1.0	U	1.0	U	1.000	U	P
Potassium									89.000	U	P
Selenium			8.0	U	8.0	U	8.0	U	8.000	U	P
Silver			-2.3	B	-2.4	B	-2.6	B	8.371	B	P
Sodium									-258.555	B	P
Thallium			4.0	U	4.0	U	4.0	U	4.000	U	P
Vanadium			3.0	U	3.0	U	3.0	U	3.000	U	P
Zinc			8.0	U	8.0	U	8.0	U	19.990	B	P
Cyanide											

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic									3.000	U	P
Barium									4.308	B	P
Beryllium											
Cadmium									2.000	U	P
Calcium											
Chromium									3.000	U	P
Cobalt									3.000	U	P
Copper									2.000	U	P
Iron	35.0	U	35.0	U	35.0	U	35.0	U			P
Lead									1.000	U	P
Magnesium											
Manganese	2.0	U	2.0	U	2.0	U	2.0	U			P
Mercury			0.1	U					0.100	U	CV
Nickel									1.000	U	P
Potassium											
Selenium									8.000	U	P
Silver									5.435	B	P
Sodium											
Thallium											
Vanadium									3.000	U	P
Zinc									8.000	U	P
Cyanide											

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum									0.600	U	P
Antimony									0.158	B	P
Arsenic									0.150	U	P
Barium									0.371	B	P
Beryllium									0.100	U	P
Cadmium									0.100	U	P
Calcium									3.800	U	P
Chromium									0.150	U	P
Cobalt									0.150	U	P
Copper									0.100	U	P
Iron			35.0	U	35.0	U			2.059	B	P
Lead									0.050	U	P
Magnesium									1.150	U	P
Manganese			2.0	U	2.0	U			0.248	B	P
Mercury									0.017	U	CV
Nickel									0.082	B	P
Potassium									4.450	U	P
Selenium									0.400	U	P
Silver									0.404	B	P
Sodium									-14.794	B	P
Thallium									0.200	U	P
Vanadium									0.150	U	P
Zinc									0.400	U	P
Cyanide											

FORM III - IN SW846

001938

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum									0.834	B	P
Antimony									0.150	U	P
Arsenic									0.150	U	P
Barium									0.583	B	P
Beryllium									0.100	U	P
Cadmium									0.100	U	P
Calcium									3.800	U	P
Chromium									0.150	U	P
Cobalt									0.150	U	P
Copper									0.123	B	P
Iron									1.750	U	P
Lead									0.050	U	P
Magnesium									1.150	U	P
Manganese									0.207	B	P
Mercury									0.017	U	CV
Nickel									0.050	U	P
Potassium									5.185	B	P
Selenium									0.400	U	P
Silver									0.100	U	P
Sodium									-13.867	B	P
Thallium									0.200	U	P
Vanadium									0.150	U	P
Zinc									0.400	U	P
Cyanide											

FORM III - IN SW846

001939

U.S. EPA - CLP

4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

ICP ID Number: OPTIMA_1A ICS Source: HIGH_PURITY

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron								
Lead								
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium		25000		26824.5	107.3		27052.8	108.2
Selenium								
Silver								
Sodium		50000		59849.1	119.7		59600.1	119.2
Thallium								
Vanadium								
Zinc								

FORM IV - IN SW846

001940

U.S. EPA - CLP

4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

ICP ID Number: OPTIMA_1A ICS Source: HIGH_PURITY

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Boron		250		269.5	107.8		269.9	108.0
Tin								

FORM IV - IN SW846

001941

U.S. EPA - CLP

4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

ICP ID Number: OPTIMA_2A ICS Source: HIGH_PURITY

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000	473582	454850.4	91.0	475815	452747.7	90.5
Antimony		600		610.5	101.8		576.7	96.1
Arsenic		100		104.4	104.4		106.9	106.9
Barium		500		479.7	95.9		483.9	96.8
Beryllium		500		467.4	93.5		464.7	92.9
Cadmium		1000		877.7	87.8		872.4	87.2
Calcium	500000	500000	490037	469188.9	93.8	487616	467187.1	93.4
Chromium		500		449.3	89.9		447.2	89.4
Cobalt		500		427.7	85.5		417.3	83.5
Copper		500		500.6	100.1		488.4	97.7
Iron	200000	200000	167607	160537.0	80.3	168779	160322.6	80.2
Lead		500		441.6	88.3		444.4	88.9
Magnesium	500000	500000	464983	443438.5	88.7	466952	441568.5	88.3
Manganese		500		453.5	90.7		470.6	94.1
Mercury								
Nickel		1000		853.8	85.4		874.4	87.4
Potassium								
Selenium		500		508.8	101.8		497.3	99.5
Silver		200		190.7	95.4		187.2	93.6
Sodium								
Thallium		100		94.0	94.0		80.6	80.6
Vanadium		500		454.2	90.8		455.5	91.1
Zinc		1000		846.8	84.7		839.5	84.0

FORM IV - IN SW846

001942

U.S. EPA - CLP

4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

ICP ID Number: OPTIMA_2A ICS Source: HIGH_PURITY

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Boron								
Tin		7000		-718.8	-10.3		-676.2	-9.7

FORM IV - IN SW846

001943

U.S. EPA - CLP

4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

ICP ID Number: OPTIMA_2A ICS Source: HIGH_PURITY

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000				471888	445587.0	89.1
Antimony		600					563.8	94.0
Arsenic		100					115.4	115.4
Barium		500					490.3	98.1
Beryllium		500					458.8	91.8
Cadmium		1000					859.5	86.0
Calcium	500000	500000				488653	460957.3	92.2
Chromium		500					441.6	88.3
Cobalt		500					399.4	79.9
Copper		500					478.9	95.8
Iron	200000	200000				168716	159146.3	79.6
Lead		500					447.4	89.5
Magnesium	500000	500000				465694	437462.7	87.5
Manganese		500					492.5	98.5
Mercury								
Nickel		1000					902.8	90.3
Potassium								
Selenium		500					487.5	97.5
Silver		200					177.0	88.5
Sodium								
Thallium		100					91.0	91.0
Vanadium		500					454.4	90.9
Zinc		1000					825.8	82.6

FORM IV - IN SW846

001944

U.S. EPA - CLP

4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

ICP ID Number: OPTIMA_2A ICS Source: HIGH_PURITY

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum								
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
Calcium								
Chromium								
Cobalt								
Copper								
Iron	200000	200000	171351	183019.4	91.5	172890	182494.2	91.2
Lead								
Magnesium								
Manganese		500		521.4	104.3		494.2	98.8
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium								
Vanadium								
Zinc								

FORM IV - IN SW846

001945

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

AOC2TB6S

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury	75-125	0.4170		0.1490	U	5.00	28.9		CV
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

Form V (Part 1) - IN SW846

00194R

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

AOC2TB624S

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): SOIL Level (low/med): MED

% Solids for Sample: 91.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	8.1138		1.6755		23.15	27.8	N	P
Arsenic	75-125	29.8935		8.4391		23.15	92.7		P
Barium	75-125	629.9707		183.0289		462.96	96.5		P
Beryllium	75-125	10.4862		0.1018	U	11.55	90.8		P
Cadmium	75-125	10.7068		0.8550		11.55	85.3		P
Calcium									NR
Chromium	75-125	121.6953		77.6272		46.30	95.2		P
Cobalt	75-125	111.5343		16.9207		115.49	81.9		P
Copper	75-125	102.0515		41.7989		57.49	104.8		P
Iron									NR
Lead	75-125	34.1775		12.0848		23.15	95.4		P
Magnesium									NR
Manganese									NR
Mercury	75-125	0.7851		0.0174	U	0.87	90.2		CV
Nickel	75-125	151.8346		46.0493		115.49	91.6		P
Potassium									NR
Selenium	75-125	14.9342		0.4076	U	23.15	64.5	N	P
Silver	75-125	49.9606		0.1018	U	57.49	86.9		P
Sodium									NR
Thallium	75-125	18.9160		0.2035	U	23.15	81.7		P
Vanadium	75-125	176.8580		70.4124		115.49	92.2		P
Zinc	75-125	177.8662		76.3271		115.49	87.9		P
Cyanide									NR

Comments:

Form V (Part 1) - IN SW846

00194R
1/4/03

U.S. EPA - CLP

3B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

AOC2TB24A

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): SOIL Level (low/med): MED

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		438.97		32.93		455.0	89.7		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium		335.7		8.00	U	455.0	73.8		P
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

Form V (Part 2) - IN SW846

U.S. EPA - CLP

SB
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.
AOC2TB5624A

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): SOIL Level (low/med): MED

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		438.97		32.98		455.0	89.2		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium		335.74		8.80	U	455.0	73.8		P
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

Form V (Part 2) - IN SW846

001948R
2/4/03

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.
AOC2B6D

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): WATER Level (low/med): MED

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic								NR
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium								NR
Cobalt								NR
Copper								NR
Iron								NR
Lead								NR
Magnesium								NR
Manganese								NR
Mercury		0.1840	U	0.1840	U			CV
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Cyanide								NR

FORM VI - IN SW846

001949

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.
AOC2TB24D

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): SOIL Level (low/med): MED

% Solids for Sample: 91.0 % Solids for Duplicate: 91.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		19273.4075		22520.3704		15.5		P
Antimony	1.0175	1.6755		1.8382		9.3		P
Arsenic		8.4391		9.5109		11.9		P
Barium		183.0289		235.4577		25.1	*	P
Beryllium		0.1018	U	0.1018	U			P
Cadmium	0.3053	0.8550		1.0400		19.5		P
Calcium		3750.4055		4327.3678		14.3		P
Chromium		77.6272		85.9185		10.1		P
Cobalt		16.9207		19.0241		11.7		P
Copper		41.7989		48.9936		15.8		P
Iron		40059.8719		40269.6125		0.5		P
Lead		12.0848		13.8976		14.0		P
Magnesium		11615.8071		13443.0532		14.6		P
Manganese		751.6886		791.1166		5.1		P
Mercury		0.0174	U	0.0167	U			CV
Nickel		46.0493		49.6099		7.4		P
Potassium		7978.6998		7824.6525		1.9		P
Selenium		0.4070	U	0.4070	U			P
Silver		0.1018	U	0.1018	U			P
Sodium		276.6144		331.3615		18.0		P
Thallium		0.2035	U	0.2035	U			P
Vanadium		70.4124		81.3940		14.5		P
Zinc		76.3271		86.5828		12.6		P
Cyanide								NR

FORM VI - IN SW846

001950

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.
AOC2TB5624D

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): SOIL Level (low/med): MED

% Solids for Sample: 91.0 % Solids for Duplicate: 91.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		19273.4075		22520.3704		15.5		P
Antimony	1.0175	1.6755		1.8382		9.3		P
Arsenic		8.4391		9.5109		11.9		P
Barium		183.0289		235.4577		25.1	*	P
Beryllium		0.1018	U	0.1018	U			P
Cadmium	0.3053	0.8550		1.0400		19.5		P
Calcium		3750.4055		4327.3678		14.3		P
Chromium		77.6272		85.9185		10.1		P
Cobalt		16.9207		19.0241		11.7		P
Copper		41.7989		48.9936		15.8		P
Iron		40059.8719		40269.6125		0.5		P
Lead		12.0848		13.8976		14.0		P
Magnesium		11615.8071		13443.0532		14.6		P
Manganese		751.6886		791.1166		5.1		P
Mercury		0.0174	U	0.0167	U			CV
Nickel		46.0493		49.6099		7.4		P
Potassium		7978.6998		7824.6525		1.9		P
Selenium		0.4070	U	0.4070	U			P
Silver		0.1018	U	0.1018	U			P
Sodium		276.6144		331.3615		18.0		P
Thallium		0.2035	U	0.2035	U			P
Vanadium		70.4124		81.3940		14.5		P
Zinc		76.3271		86.5828		12.6		P
Cyanide								NR

FORM VI - IN SW846

001950R
2/4/03

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Solid LCS Source: ERA_LOT#802115

Aqueous LCS Source: HIGH_PURITY

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	9100.0	8999.4	98.9	910.0	884.2		758.9	982.8	97.2
Antimony	455.0	481.7	105.9	45.5	44.5		38.9	60.2	97.8
Arsenic	455.0	481.0	105.7	45.5	49.3		35.4	57.8	108.4
Barium	9100.0	9270.8	101.9	910.0	971.1		810.8	1072.9	106.7
Beryllium	227.0	227.8	100.4	22.7	22.8		19.0	26.1	100.4
Cadmium	227.0	231.4	102.8	22.7	23.0		18.2	29.8	101.3
Calcium	22700.0	21955.1	96.7	2270.0	2137.4		1886.4	2526.5	94.2
Chromium	910.0	906.1	99.6	91.0	91.8		76.3	105.7	100.9
Cobalt	2270.0	2283.1	100.6	227.0	221.9		193.2	265.4	97.8
Copper	1130.0	1143.2	101.1	113.0	113.0		93.7	133.7	100.0
Iron	4550.0	4581.6	100.3	455.0	465.4		391.3	533.3	102.3
Lead	455.0	468.5	103.0	45.5	48.2		36.5	61.4	105.9
Magnesium	22700.0	22422.3	98.8	2270.0	2269.2		1920.4	2546.9	100.0
Manganese	2270.0	2273.6	100.3	227.0	225.9		195.2	267.4	98.6
Mercury	4.6	4.2	91.3	0.8	0.8		0.6	1.0	100.0
Nickel	2270.0	2303.5	101.5	227.0	242.3		192.0	262.9	106.7
Potassium	22700.0	21810.0	96.1	2270.0	2205.1		1718.4	2590.1	97.1
Selenium	455.0	453.0	99.6	45.5	41.5		34.6	56.4	91.2
Silver	1130.0	1130.6	100.1	113.0	108.8		87.8	132.6	96.3
Sodium	22700.0	21895.0	96.4	2270.0	2235.4		1784.2	2478.8	98.5
Thallium	455.0	470.0	103.3	45.5	46.8		35.3	61.3	102.9
Vanadium	2270.0	2234.1	98.4	227.0	229.8		189.3	261.5	101.2
Zinc	2270.0	2298.4	101.2	227.0	226.6		184.8	258.3	99.8
Cyanide									

FORM VII - IN SW846

001951

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Solid LCS Source: ERA_LOT#802115

Aqueous LCS Source: HIGH_PURITY

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	9100.0	8944.7	98.3	910.0	858.3		758.9	982.8	94.3
Antimony	455.0	453.4	99.6	45.5	44.0		38.9	60.2	96.7
Arsenic	455.0	507.9	111.6	45.5	49.0		35.4	57.8	107.7
Barium	9100.0	9615.4	105.9	910.0	956.6		810.8	1072.9	105.1
Beryllium	227.0	229.1	100.9	22.7	22.3		19.0	26.1	98.2
Cadmium	227.0	233.6	102.9	22.7	22.4		18.2	29.8	98.7
Calcium	22700.0	22113.6	97.4	2270.0	2081.5		1886.4	2526.5	91.7
Chromium	910.0	902.5	99.2	91.0	89.0		76.3	105.7	97.8
Cobalt	2270.0	2204.0	97.1	227.0	212.2		193.2	265.4	93.5
Copper	1130.0	1135.0	100.4	113.0	110.2		93.7	133.7	97.5
Iron	4550.0	4588.2	100.8	455.0	456.4		391.3	533.3	100.3
Lead	455.0	484.8	106.5	45.5	47.7		36.5	61.4	104.8
Magnesium	22700.0	22762.8	100.3	2270.0	2219.5		1920.4	2546.9	97.8
Manganese	2270.0	2304.7	102.0	227.0	223.4		195.2	267.4	98.4
Mercury	4.6	4.0	87.0	0.8	0.8		0.6	1.0	100.0
Nickel	2270.0	2413.4	106.3	227.0	240.0		192.0	262.9	105.7
Potassium	22700.0	22067.6	97.2	2270.0	2139.0		1718.4	2590.1	94.2
Selenium	455.0	453.1	99.6	45.5	40.1		34.6	56.4	88.1
Silver	1130.0	1103.5	97.7	113.0	103.8		87.8	132.6	91.9
Sodium	22700.0	21782.4	96.0	2270.0	2208.2		1784.2	2478.8	97.3
Thallium	455.0	478.3	105.1	45.5	46.0		35.3	61.3	101.1
Vanadium	2270.0	2275.3	100.2	227.0	225.1		189.3	261.5	99.2
Zinc	2270.0	2286.2	100.7	227.0	220.5		184.8	258.3	97.1
Cyanide									

FORM VII - IN SW846

001952

U.S. EPA - CLP

9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): SOIL Level (low/med): MED

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	378838.00		415286.66		9.6		P
Antimony	32.93		29.03	B	140.0		P
Arsenic	165.88		223.56		34.8	E	P
Barium	3597.62		3965.49		10.2	E	P
Beryllium	2.00	U	51.86				P
Cadmium	16.89		11.52	B	31.1		P
Calcium	78717.97		76416.81		2.9		P
Chromium	1525.84		1670.69		9.5		P
Cobalt	332.59		334.37		0.5		P
Copper	821.60		833.27		1.4		P
Iron	787416.84		865536.31		9.9		P
Lead	237.34		291.70		22.9	E	P
Magnesium	2283120.30		2568129.82		12.5		P
Manganese	14775.19		17805.63		20.5	E	P
Mercury							NR
Nickel	905.84		1028.59		13.6	E	P
Potassium	1568029.32		1439238.73		8.2		P
Selenium	8.00	U	40.00	U			P
Silver	2.00	U	10.00	U			P
Sodium	5437.13		3590.58	B	34.0		P
Thallium	4.00	U	45.48	B			P
Vanadium	3384.03		1473.05		56.4		P
Zinc	1560.28		1701.59		9.0	E	P

FORM IX - IN SW846

001953

U.S. EPA - CLP

9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Matrix (soil/water): SOIL Level (low/med): MED

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	378838.00		415286.66		9.6		P
Antimony	32.93		29.03	B	140.0		P
Arsenic	165.88		223.56		34.8	E	P
Barium	3597.62		3965.49		10.2	E	P
Beryllium	2.00	U	51.86				P
Cadmium	16.89		11.52	B	31.1		P
Calcium	78717.97		76416.81		2.9		P
Chromium	1525.84		1670.69		9.5		P
Cobalt	332.59		334.37		0.5		P
Copper	821.60		833.27		1.4		P
Iron	787416.84		865536.31		9.9		P
Lead	237.34		291.70		22.9	E	P
Magnesium	2283120.30		2568129.82		12.5		P
Manganese	14775.19		17805.63		20.5	E	P
Mercury							NR
Nickel	905.84		1028.59		13.6	E	P
Potassium	1568029.32		1439238.73		8.2		P
Selenium	8.00	U	40.00	U			P
Silver	2.00	U	10.00	U			P
Sodium	5437.13		3590.58	B	34.0		P
Thallium	4.00	U	45.48	B			P
Vanadium	3384.03		1473.05		56.4		P
Zinc	1560.28		1701.59		9.0	E	P

FORM IX - IN SW846

001954

U.S. EPA - CLP

9
ICP SERIAL DILUTIONS

EPA SAMPLE NO.
AOC3CTCP8L

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): SOIL Level (low/med): MED

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Boron							NR
Tin	38.00	U	190.00	U			P

FORM IX - IN SW846

001954

U.S. EPA - CLP

9
ICP SERIAL DILUTIONS

EPA SAMPLE NO.
AOC7WTB65GWL

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
Matrix (soil/water): WATER Level (low/med): MED

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Boron	1000.85		1078.30	B	7.7		P
Tin							NR

FORM IX - IN SW846

1955

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
ICP ID Number: OPTIMA_2A Date: 02/01/02
Flame AA ID Number:
Furnace AA ID Number:

Analyte	Wavelength (nm)	Background	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.21		200	12.0	P
Antimony	206.83		20	3.0	P
Arsenic	188.98		20	3.0	P
Barium	233.53		200	3.0	P
Beryllium	313.11		6	2.0	P
Cadmium	226.50		6	2.0	P
Calcium	227.54		800	76.0	P
Chromium	267.72		20	3.0	P
Cobalt	228.62		50	3.0	P
Copper	324.75		30	2.0	P
Iron	273.96		200	35.0	P
Lead	220.35		10	1.0	P
Magnesium	279.08		500	23.0	P
Manganese	257.61		50	2.0	P
Mercury			0.2		NR
Nickel	231.60		50	1.0	P
Potassium			1000		NR
Selenium	196.03		30	8.0	P
Silver	328.07		30	2.0	P
Sodium			1000		NR
Thallium	190.80		20	4.0	P
Vanadium	292.40		50	3.0	P
Zinc	206.20		50	8.0	P
Cyanide			20		NR

Comments:

FORM X - IN SW846

001956

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905
ICP ID Number: OPTIMA_2A Date: 02/01/02
Flame AA ID Number:
Furnace AA ID Number:

Analyte	Wavelength (nm)	Background	CRDL (ug/L)	IDL (ug/L)	M
Boron			500		NR
Tin	242.17		200	38.0	P

Comments:

FORM X - IN SW846

001957

U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

ICP ID Number: OPTIMA_1A Date: 02/01/02

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.21		200	12.0	P
Antimony	206.83		20	3.0	P
Arsenic	188.98		20	3.0	P
Barium	233.53		200	3.0	P
Beryllium	313.11		6	2.0	P
Cadmium	226.50		6	2.0	P
Calcium			800		NR
Chromium	267.72		20	3.0	P
Cobalt	228.62		50	3.0	P
Copper	324.75		30	2.0	P
Iron	273.96		200	35.0	P
Lead	220.35		10	1.0	P
Magnesium	279.08		500	23.0	P
Manganese	257.61		50	2.0	P
Mercury			0.2		NR
Nickel	231.60		50	1.0	P
Potassium	766.49		1000	89.0	P
Selenium			30		NR
Silver			30		NR
Sodium	589.59		1000	118.0	P
Thallium			20		NR
Vanadium			50		NR
Zinc			50		NR
Cyanide			20		NR

Comments:

FORM X - IN SW846

U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

ICP ID Number: OPTIMA_1A Date: 02/01/02

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Boron	249.77		500	130.0	P
Tin	189.93		200	38.0	P

Comments:

FORM X - IN SW846

U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

ICP ID Number: Date: 02/01/02

Flame AA ID Number: COMM_FIMS

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			20		NR
Arsenic			20		NR
Barium			200		NR
Beryllium			6		NR
Cadmium			6		NR
Calcium			800		NR
Chromium			20		NR
Cobalt			50		NR
Copper			30		NR
Iron			200		NR
Lead			10		NR
Magnesium			500		NR
Manganese			50		NR
Mercury	253.70		0.2	0.1	CV
Nickel			50		NR
Potassium			1000		NR
Selenium			30		NR
Silver			30		NR
Sodium			1000		NR
Thallium			20		NR
Vanadium			50		NR
Zinc			50		NR
Cyanide			20		NR

Comments:

FORM X - IN SW846

U.S. EPA - CLP

11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

ICP ID Number: OPTIMA_2A Date: 05/08/02

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	CR
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	-0.0000034	-0.0000316	0.0003760	0.0000273	0.0093652
Arsenic	188.98	0.0000170	0.0000000	-0.0010476	0.0000000	-0.0966949
Barium	233.53	0.0000000	0.0000291	0.0004462	0.0000000	0.0004554
Beryllium	313.11	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0004203	0.0000000	0.0000000
Calcium	227.54	-0.0004572	0.0000000	0.0866899	0.0000000	0.0563810
Chromium	267.72	0.0000000	0.0000000	-0.0001255	0.0000000	0.0000000
Cobalt	228.62	-0.0000029	0.0000000	0.0001335	0.0000000	-0.0013519
Copper	324.75	0.0000081	0.0000283	-0.0014020	0.0000000	0.0000000
Iron	273.96	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	-0.0000778	-0.0000820	0.0001989	0.0000220	-0.0004088
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	-0.0000082	0.0000000	-0.0005196	0.0001687	-0.0014682
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium						
Selenium	196.03	0.0000156	0.0000000	-0.0028380	-0.0000401	-0.0006459
Silver	328.07	0.0000000	0.0002155	-0.0023821	0.0000000	0.0002076
Sodium						
Thallium	190.80	-0.0000416	0.0000350	-0.0002012	-0.0000956	0.0023091
Vanadium	292.40	0.0000000	0.0000000	0.0000830	0.0000000	-0.0206993
Zinc	206.20	-0.0000032	-0.0000397	-0.0001879	0.0006536	-0.0163199
Boron						
Tin	242.17	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XI (Part 1) - IN SW846

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

ICP ID Number: OPTIMA_2A Date: 05/08/02

Analyte	Wave-length (nm)	Interelement Correction Factors for: CU	MN	NI	TI	TL
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0004552	0.0013682	-0.0001954	-0.0074396	0.0008753
Arsenic	188.98	0.0000000	0.0007572	0.0000000	-0.0042750	0.0000000
Barium	233.53	0.0000000	0.0007443	-0.0011126	0.0000000	0.0000000
Beryllium	313.11	0.0000000	0.0000000	0.0000000	-0.0103101	0.0000000
Cadmium	226.50	0.0000000	0.0000000	-0.0022742	0.0000000	0.0000000
Calcium	227.54	0.1520070	0.0000000	0.1590650	0.0000000	0.0000000
Chromium	267.72	0.0002839	0.0018905	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0018545	0.0138986	0.0000000
Copper	324.75	0.0000000	0.0124565	0.0018525	0.0083539	0.0024871
Iron	273.96	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	-0.0002076	0.0016126	-0.0029336	-0.0058528	0.0000000
Magnesium	279.08	0.0000000	-0.0513180	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0003732	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0008908	0.0000000	0.0028847	0.0010379
Potassium						
Selenium	196.03	0.0002297	0.0082140	0.0006306	0.0016016	0.0008558
Silver	328.07	0.0005243	0.0000000	0.0000000	0.0000000	0.0000000
Sodium						
Thallium	190.80	0.0000000	-0.0427067	0.0000000	-0.0159770	0.0000000
Vanadium	292.40	0.0000000	-0.0006762	0.0000000	0.0056904	0.0000000
Zinc	206.20	0.0000000	0.0017978	-0.0005897	0.0094826	-0.0013734
Boron						
Tin	242.17	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XI (Part 2) - IN SW846

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

ICP ID Number: OPTIMA_2A Date: 05/08/02

Analyte	Wave-length (nm)	Interelement Correction Factors for: V
Aluminum	308.21	0.0000000
Antimony	206.83	-0.0189173
Arsenic	188.98	0.0007689
Barium	233.53	-0.0231888
Beryllium	313.11	0.0000000
Cadmium	226.50	0.0000000
Calcium	227.54	0.2915730
Chromium	267.72	-0.0022175
Cobalt	228.62	0.0002444
Copper	324.75	0.0000000
Iron	273.96	0.0000000
Lead	220.35	-0.0003234
Magnesium	279.08	0.0000000
Manganese	257.61	0.0002729
Mercury		
Nickel	231.60	0.0002315
Potassium		
Selenium	196.03	0.0020383
Silver	328.07	-0.0047937
Sodium		
Thallium	190.80	0.0256151
Vanadium	292.40	0.0000000
Zinc	206.20	0.0003146
Boron		
Tin	242.17	0.0000000

Comments:

FORM XI (Part 2) - IN SW846

U.S. EPA - CLP

11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

ICP ID Number: OPTIMA_1A Date: 12/13/02

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	CR
Aluminum	308.21	0.0000000	0.0001148	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000080	-0.0000028	0.0000445	-0.0000034	0.0073757
Arsenic	188.98	0.0000327	0.0000046	-0.0000487	0.0000044	0.0001319
Barium	233.53	0.0000027	0.0000031	-0.0000321	0.0000021	0.0000000
Beryllium	313.11	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000976	0.0000000	0.0000000
Calcium						
Chromium	267.72	0.0000000	0.0000000	-0.0000230	0.0000081	0.0000000
Cobalt	228.62	0.0000000	0.0000000	-0.0000165	0.0000000	-0.0000476
Copper	324.75	0.0000047	0.0000039	-0.0001110	0.0000000	0.0000000
Iron	273.96	-0.0001400	0.0000000	0.0000000	-0.0001138	0.0000000
Lead	220.35	0.0009827	0.0000039	0.0000379	0.0000037	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000036	0.0000111	0.0000000	0.0000199	-0.0000676
Mercury						
Nickel	231.60	0.0000074	0.0000048	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver						
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	-0.0078912
Thallium						
Vanadium						
Zinc						
Boron	249.77	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XI (Part 1) - IN SW846

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

ICP ID Number: OPTIMA_1A Date: 12/13/02

Analyte	Wave-length (nm)	Interelement Correction Factors for: CU	MN	NI	TI	TL
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	-0.0001024	0.0000000	-0.0001486	0.0000000	-0.0001428
Arsenic	188.98	0.0000000	0.0000000	0.0000000	0.0013856	0.0000000
Barium	233.53	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.11	0.0000000	0.0000000	0.0000000	-0.0014753	0.0000000
Cadmium	226.50	0.0000000	0.0000000	-0.0004060	0.0001283	0.0000000
Calcium						
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0001304	0.0016527	0.0000000
Copper	324.75	0.0000000	0.0007981	0.0002400	0.0006304	0.0002340
Iron	273.96	-0.0028035	-0.0084076	-0.0026777	-0.0071262	-0.0072605
Lead	220.35	-0.0001453	0.0000000	0.0001190	0.0006474	0.0000000
Magnesium	279.08	0.0000000	-0.0083174	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0001734	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0004051	0.0003747
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium						
Silver						
Sodium	589.59	0.0061503	0.0000000	0.0000000	-0.0227139	0.0147478
Thallium						
Vanadium						
Zinc						
Boron	249.77	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XI (Part 2) - IN SW846

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

ICP ID Number: OPTIMA_1A Date: 12/13/02

Analyte	Wave-length (nm)	Interelement Correction Factors for : V
Aluminum	308.21	0.0048795
Antimony	206.83	-0.0016333
Arsenic	188.98	0.0000598
Barium	233.53	0.0004264
Beryllium	313.11	0.0000000
Cadmium	226.50	0.0000000
Calcium		
Chromium	267.72	-0.0001349
Cobalt	228.62	0.0000000
Copper	324.75	-0.0000769
Iron	273.96	0.0091213
Lead	220.35	-0.0000649
Magnesium	279.08	0.0000000
Manganese	257.61	0.0000000
Mercury		
Nickel	231.60	0.0000000
Potassium	766.49	0.0000000
Selenium		
Silver		
Sodium	589.59	0.0085995
Thallium		
Vanadium		
Zinc		
Boron	249.77	0.0000000
Tin	189.93	0.0000000

Comments:

FORM XI (Part 2) - IN SW846

001966

U.S. EPA - CLP

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

ICP ID Number: OPTIMA_2A Date: 10/01/02

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum	0.20	500000	P
Antimony	0.20	25000	P
Arsenic	0.20	25000	P
Barium	0.20	50000	P
Beryllium	0.20	1000	P
Cadmium	0.20	10000	P
Calcium	0.50	500000	P
Chromium	0.20	50000	P
Cobalt	0.20	50000	P
Copper	0.20	25000	P
Iron	0.20	300000	P
Lead	0.20	100000	P
Magnesium	0.20	500000	P
Manganese	0.20	25000	P
Mercury			NR
Nickel	0.20	100000	P
Potassium			NR
Selenium	0.20	25000	P
Silver	0.20	2500	P
Sodium			NR
Thallium	0.20	25000	P
Vanadium	0.20	50000	P
Zinc	0.20	25000	P

Comments:

FORM XII - IN SW846

001967

U.S. EPA - CLP

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

ICP ID Number: OPTIMA_1A Date: 10/01/02

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum			NR
Antimony			NR
Arsenic			NR
Barium			NR
Beryllium			NR
Cadmium			NR
Calcium			NR
Chromium			NR
Cobalt			NR
Copper			NR
Iron			NR
Lead			NR
Magnesium			NR
Manganese			NR
Mercury			NR
Nickel			NR
Potassium	0.20	500000	P
Selenium			NR
Silver			NR
Sodium	0.20	500000	P
Thallium			NR
Vanadium			NR
Zinc			NR

Comments:

FORM XII - IN SW846

001968

U.S. EPA - CLP

13

PREPARATION LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
AOC3BB3	12/24/02		50
AOC3BB4	12/24/02		50
AOC3E5	12/24/02		50
LCSW	12/24/02		50
PBW	12/24/02		50

FORM XIII - IN SW846

001969

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
AOC3CTCP6	12/24/02	1.04	50
AOC3CTCP7	12/24/02	1.05	50
AOC3CTCP8	12/24/02	1.03	50
AOC3SSTB5402	12/24/02	1.08	50
LCSS	12/24/02	0.50	50
PBS	12/24/02	1.00	50

FORM XIII - IN SW846

00 1970

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
AOC2F6	12/30/02		50
AOC3CTCP6	12/30/02		50
AOC3CTCP7	12/30/02		50
AOC3CTCP8	12/30/02		50
AOC5E7	12/30/02		50
AOC5WTB62W	12/30/02		50
AOC5WTB63W	12/30/02		50
AOC7WTB65GW	12/30/02		50
AOC7WTB65GW	12/30/02		50
LCSW	12/30/02		50
PBW	12/30/02		50
PBW	12/30/02		50

FORM XIII - IN SW846

00 1971

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
AOC2TB24	12/30/02	1.08	50
AOC2TB24D	12/30/02	1.08	50
AOC2TB24S	12/30/02	1.05	50
AOC5ASSTB68015	12/30/02	1.05	50
AOC5SSTB6267	12/30/02	1.02	50
AOC6SSTB7167	12/30/02	1.00	50
LCSS	12/30/02	0.50	50
PBS	12/30/02	1.00	50

FORM XIII - IN SW846

00 1972

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
AOC2TB5624	12/30/02	1.08	50
AOC2TB5624D	12/30/02	1.08	50
AOC2TB5624S	12/30/02	1.03	50
AOC5ASSTB68015	12/30/02	1.05	50
AOC5SSTB6267	12/30/02	1.02	50
AOC6SSTB7167	12/30/02	1.00	50
LCSS	12/30/02	0.50	50
PBS	12/30/02	1.00	50

FORM XIII - IN SW846

00 1972R
2/4/03

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
AOC3BB3	12/24/02		126
AOC3BB4	12/24/02		128
AOC3E5	12/24/02		126
LCSW	12/24/02		100
PBW	12/24/02		100

FORM XIII - IN SW846

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
AOC3CTCP6	12/24/02	0.67	100
AOC3CTCP7	12/24/02	0.71	100
AOC3CTCP8	12/24/02	0.65	100
AOC3SSTB5402	12/24/02	0.69	100
LCSS	12/24/02	0.60	100
PBS	12/24/02	0.60	100

FORM XIII - IN SW846

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
AOC2E6	12/30/02		844
AOC2E6D	12/30/02		844
AOC2E6S	12/30/02		840
AOC3CTCP6	12/30/02		880
AOC5CTCP7	12/30/02		890
AOC3CTCP8	12/30/02		850
AOC2E7	12/30/02		841
AOC5WTB62W	12/30/02		841
AOC5WTB62W	12/30/02		847
AOC7WTB65GW	12/30/02		848
AOC7WTB65GW	12/30/02		848
LCSW	12/30/02		100
PBW	12/30/02		100
PBW	12/30/02		100

FORM XIII - IN SW846

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
AOC2TB24	12/30/02	0.63	100
AOC2TB24D	12/30/02	0.66	100
AOC2TB24S	12/30/02	0.63	100
AOC5SSTB6267	12/30/02	0.71	100
LCSS	12/30/02	0.60	100
PBS	12/30/02	0.60	100

FORM XIII - IN SW846

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Method: CV

EPA Sample No.	Preparation Date	Weight (grams)	Volume (mL)
AOC2TB5624	12/30/02	0.63	100
AOC2TB5624D	12/30/02	0.66	100
AOC2TB5624S	12/30/02	0.63	100
AOC5SSTB6267	12/30/02	0.71	100
LCSS	12/30/02	0.69	100
PBS	12/30/02	0.69	100

FORM XIII - IN SW846

0019766R
2/4/03

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID Number: OPTIMA_2A Method: P

Start Date: 12/31/02 End Date: 12/31/02

EPA Sample No.	D/F	Time	%R	Analytes
				AL BS AS BA BE CD CA CR CO CU FE PB MG MN HG NI K SE AG NA TL V ZN CN
S0	1.00	0906		X X X X X X X X X X X X X X X X X X X X X X X X X
S1	1.00	0912		X X X X X X X X X X X X X X X X X X X X X X X X X
S2	1.00	0915		X X X X X X X X X X X X X X X X X X X X X X X X X
S3	1.00	0919		X X X X X X X X X X X X X X X X X X X X X X X X X
ZZZZZZ	1.00	0923		
ZZZZZZ	1.00	0926		
ICV	1.00	0939		X X X X X X X X X X X X X X X X X X X X X X X X X
ICB	1.00	0943		X X X X X X X X X X X X X X X X X X X X X X X X X
ICSA	1.00	0947		X X X X X X X X X X X X X X X X X X X X X X X X X
ICSAB	1.00	0950		X X X X X X X X X X X X X X X X X X X X X X X X X
PBW	1.00	0952		X X X X X X X X X X X X X X X X X X X X X X X X X
LCSW	1.00	0957		X X X X X X X X X X X X X X X X X X X X X X X X X
ZZZZZZ	1.00	1001		
ZZZZZZ	1.00	1005		
ZZZZZZ	1.00	1009		
ZZZZZZ	1.00	1013		
CCV	1.00	1016		X X X X X X X X X X X X X X X X X X X X X X X X X
CCB	1.00	1020		X X X X X X X X X X X X X X X X X X X X X X X X X
PBW	1.00	1024		X X X X X X X X X X X X X X X X X X X X X X X X X
AOC3CTCP6	1.00	1028		X X X X X X X X X X X X X X X X X X X X X X X X X
AOC3CTCP7	1.00	1032		X X X X X X X X X X X X X X X X X X X X X X X X X
AOC3CTCP8	1.00	1036		X X X X X X X X X X X X X X X X X X X X X X X X X
ZZZZZZ	1.00	1040		
AOC5E7	1.00	1044		X X X X X X X X X X X X X X X X X X X X X X X X X
ICSA	1.00	1048		X X X X X X X X X X X X X X X X X X X X X X X X X
ICSAB	1.00	1051		X X X X X X X X X X X X X X X X X X X X X X X X X
CCV	1.00	1054		X X X X X X X X X X X X X X X X X X X X X X X X X
CCB	1.00	1058		X X X X X X X X X X X X X X X X X X X X X X X X X
AOC5WTB62W	1.00	1102		X X X X X X X X X X X X X X X X X X X X X X X X X
AOC5WTB62W	1.00	1105		X X X X X X X X X X X X X X X X X X X X X X X X X
AOC7WTB65GW	1.00	1109		X X X X X X X X X X X X X X X X X X X X X X X X X
AOC7WTB65GW	1.00	1113		X X X X X X X X X X X X X X X X X X X X X X X X X

FORM XIV - IN SW846

0019776

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID Number: OPTIMA_2A Method: P

Start Date: 12/31/02 End Date: 12/31/02

EPA Sample No.	D/F	Time	%R	Analytes
				AL BS AS BA BE CD CA CR CO CU FE PB MG MN HG NI K SE AG NA TL V ZN CN
AOC2E6	1.00	1116		X X X X X X X X X X X X X X X X X X X X X X X X X
PBW	1.00	1120		X X X X X X X X X X X X X X X X X X X X X X X X X
LCSW	1.00	1124		X X X X X X X X X X X X X X X X X X X X X X X X X
AOC3BB3	1.00	1128		X X X X X X X X X X X X X X X X X X X X X X X X X
CCV	1.00	1132		X X X X X X X X X X X X X X X X X X X X X X X X X
CCB	1.00	1136		X X X X X X X X X X X X X X X X X X X X X X X X X
AOC3BB4	1.00	1140		X X X X X X X X X X X X X X X X X X X X X X X X X
AOC3E5	1.00	1144		X X X X X X X X X X X X X X X X X X X X X X X X X
PBS	1.00	1148		X X X X X X X X X X X X X X X X X X X X X X X X X
LCSS	1.00	1152		X X X X X X X X X X X X X X X X X X X X X X X X X
AOC3CTCP6	1.00	1157		X X X X X X X X X X X X X X X X X X X X X X X X X
AOC3CTCP7	1.00	1200		X X X X X X X X X X X X X X X X X X X X X X X X X
AOC3CTCP8	1.00	1203		X X X X X X X X X X X X X X X X X X X X X X X X X
CCV	1.00	1205		X X X X X X X X X X X X X X X X X X X X X X X X X
CCB	1.00	1209		X X X X X X X X X X X X X X X X X X X X X X X X X
AOC3SSTB5402	1.00	1214		X X X X X X X X X X X X X X X X X X X X X X X X X
PBS	1.00	1216		X X X X X X X X X X X X X X X X X X X X X X X X X
LCSS	1.00	1220		X X X X X X X X X X X X X X X X X X X X X X X X X
AOC5SSTB6267	1.00	1224		X X X X X X X X X X X X X X X X X X X X X X X X X
AOC6SSTB7167	1.00	1227		
AOC5ASSTB6801SB	1.00	1230		
AOC2TB624	1.00	1233		X X X X X X X X X X X X X X X X X X X X X X X X X
AOC2TB624D	1.00	1235		X X X X X X X X X X X X X X X X X X X X X X X X X
CCV	1.00	1238		X X X X X X X X X X X X X X X X X X X X X X X X X
CCB	1.00	1242		X X X X X X X X X X X X X X X X X X X X X X X X X
AOC2TB624S	1.00	1247		X X X X X X X X X X X X X X X X X X X X X X X X X
AOC2TB624L	1.00	1249		X X X X X X X X X X X X X X X X X X X X X X X X X
AOC2TB624A	1.00	1252		X X X X X X X X X X X X X X X X X X X X X X X X X
ICSA	1.00	1255		X X X X X X X X X X X X X X X X X X X X X X X X X
ICSAB	1.00	1257		X X X X X X X X X X X X X X X X X X X X X X X X X
CCV	1.00	1300		X X X X X X X X X X X X X X X X X X X X X X X X X
CCB	1.00	1304		X X X X X X X X X X X X X X X X X X X X X X X X X

FORM XIV - IN SW846

0019786R
2/4/03

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID Number: OPTIMA_2A Method: P

Start Date: 12/31/02 End Date: 12/31/02

EPA Sample No.	D/F	Time	% R	B	Analytes: SN
S0	1.00	1308			X
S1	1.00	1311			X
S2	1.00	1313			X
S3	1.00	1315			X
ZZZZZZ	1.00	1318			
ICV	1.00	1320			X
ICB	1.00	1322			X
ICSA	1.00	1325			
ICSAB	1.00	1327			X
ZZZZZZ	1.00	1329			
ZZZZZZ	1.00	1332			
PBW	1.00	1334			X
AOC3CTCP6	1.00	1336			X
AOC3CTCP7	1.00	1339			X
AOC3CTCP8	1.00	1341			X
CCV	1.00	1344			X
CCB	1.00	1346			X
PBS	1.00	1348			X
LCSS	1.00	1351			
AOC3CTCP6	1.00	1353			X
AOC3CTCP7	1.00	1355			X
AOC3CTCP8	1.00	1358			X
AOC3CTCP8L	1.00	1428			X
ICSA	1.00	1430			
ICSAB	1.00	1433			X
CCV	1.00	1435			X
CCB	1.00	1437			X

FORM XIV - IN SW846

001973

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID Number: OPTIMA_2A Method: P

Start Date: 01/03/03 End Date: 01/03/03

EPA Sample No.	D/F	Time	% R	Analytes: ALL SBS SAS BBA BBE CBD CCA CCR COU CFE PBW MGN MHG HNG NGI XSE SAG ANAL TAL VZN CCN
S0	1.00	0907		X X
S1	1.00	0909		X X
S2	1.00	0912		X X
S3	1.00	0914		X X
ZZZZZZ	1.00	0916		
ZZZZZZ	1.00	0919		
ICV	1.00	0921		X X
ICB	1.00	0924		X X
ICSA	1.00	0926		X
ICSAB	1.00	0929		X X
PBW	1.00	0931		X
LCSW	1.00	0934		X
AOC5E7	1.00	0936		X
AOC5WTB62W	1.00	0939		X X
AOC5WTB62W	1.00	0941		X X
CCV	1.00	0944		X X
CCB	1.00	0946		X X
AOC7WTB65GW	1.00	0948		X X
AOC7WTB65GW	1.00	0951		X X
AOC2E6	1.00	0954		X
PBW	1.00	0956		X
LCSW	1.00	0958		X
AOC3BB3	1.00	1001		X
AOC3BB4	1.00	1003		X
AOC5E5	1.00	1005		X
CCV	1.00	1008		X X
CCB	1.00	1010		X X
PBS	1.00	1012		X
LCSS	1.00	1015		X
AOC2SSTB5402	1.00	1017		X
PBS	1.00	1020		X
LCSS	1.00	1022		X

FORM XIV - IN SW846

001980

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID Number: OPTIMA_2A Method: P

Start Date: 01/03/03 End Date: 01/03/03

EPA Sample No.	D/F	Time	% R	Analytes: ALL SBS SAS BBA BBE CBD CCA CCR COU CFE PBW MGN MHG HNG NGI XSE SAG ANAL TAL VZN CCN
AOC5SSTB6267	1.00	1025		X
CCV	1.00	1027		X X
CCB	1.00	1030		X X
AOC2TB24	1.00	1032		X
AOC2TB24D	1.00	1033		X
AOC2TB24S	1.00	1037		
AOC2TB24L	1.00	1040		X
CCV	1.00	1043		X X
CCB	1.00	1045		X X
AOC2TB24	5.00	1048		X
AOC2TB24D	5.00	1050		X
AOC2TB24L	5.00	1053		X
ZZZZZZ	1.00	1055		
ICSA	1.00	1058		X
ICSAB	1.00	1100		X X
CCV	1.00	1103		X X
CCB	1.00	1105		X X

FORM XIV - IN SW846

001981

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID Number: OPTIMA_2A Method: P

Start Date: 01/03/03 End Date: 01/03/03

EPA Sample No.	D/F	Time	% R	Analytes: ALL SBS SAS BBA BBE CBD CCA CCR COU CFE PBW MGN MHG HNG NGI XSE SAG ANAL TAL VZN CCN
AOC5SSTB6267	1.00	1025		X
CCV	1.00	1027		X X
CCB	1.00	1030		X X
AOC2TB5624	1.00	1032		X
AOC2TB5624D	1.00	1035		X
AOC2TB5624S	1.00	1037		
AOC2TB5624L	1.00	1040		X
CCV	1.00	1043		X X
CCB	1.00	1045		X X
AOC2TB5624	5.00	1048		X
AOC2TB5624D	5.00	1050		X
AOC2TB5624L	5.00	1053		X
ZZZZZZ	1.00	1055		
ICSA	1.00	1058		X
ICSAB	1.00	1100		X X
CCV	1.00	1103		X X
CCB	1.00	1105		X X

FORM XIV - IN SW846

001981R
21403

U.S. EPA - CLP

IV
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID Number: OPTIMA_1A Method: P

Start Date: 01/03/03 End Date: 01/03/03

EPA Sample No.	D/F	Time	%R	Analytes: IS N
S0	1.00	1040		X
S1	1.00	1043		X
S2	1.00	1045		X
S3	1.00	1047		X
ZZZZZZ	1.00	1049		
ZZZZZZ	1.00	1052		
ICV	1.00	1055		X
ICB	1.00	1059		X
ICSA	1.00	1101		
ICSAB	1.00	1104		X
PBW	1.00	1106		X
ZZZZZZ	1.00	1108		
AOC5WTB62W	1.00	1110		X
AOC5WTB62W	1.00	1113		X
CCV	1.00	1115		X
CCB	1.00	1117		X
AOC7WTB65GW	1.00	1120		X
AOC7WTB65GW	1.00	1122		X
AOC7WTB65GWL	1.00	1124		X
ICSA	1.00	1126		
ICSAB	1.00	1129		X
CCV	1.00	1131		X
CCB	1.00	1133		X

FORM XIV - IN SW846

001982

U.S. EPA - CLP

IV
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID Number: OPTIMA_1A Method: P

Start Date: 01/03/03 End Date: 01/03/03

EPA Sample No.	D/F	Time	%R	Analytes: AL SB SA BA BE CD CA CR CO CU FE PB MG MN HG KI SE AG NA TL V ZN CN
S0	1.00	1136		X
S1	1.00	1138		X
S2	1.00	1141		X
S3	1.00	1143		X
ZZZZZZ	1.00	1145		
ZZZZZZ	1.00	1148		
ZZZZZZ	1.00	1149		
ICV	1.00	1152		X
ICB	1.00	1154		X
ICSA	1.00	1157		
ICSAB	1.00	1159		X
PBW	1.00	1201		X
LCSW	1.00	1204		X
AOC5E7	1.00	1206		X
AOC2E6	1.00	1208		X
PBW	1.00	1210		X
LCSW	1.00	1213		X
CCV	1.00	1215		X
CCB	1.00	1217		X
AOC3BB3	1.00	1220		X
AOC3BB4	1.00	1222		X
AOC5E5	1.00	1224		X
PBS	1.00	1227		X
LCSS	1.00	1229		X
AOC5SSTB5402	1.00	1231		X
PBS	1.00	1234		X
LCSS	1.00	1236		X
CCV	1.00	1238		X
CCB	1.00	1240		X
AOC5SSTB6267	1.00	1243		X
AOC2TB24	1.00	1245		X
AOC2TB24D	1.00	1247		X

FORM XIV - IN SW846

001983

U.S. EPA - CLP

IV
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID Number: OPTIMA_1A Method: P

Start Date: 01/03/03 End Date: 01/03/03

EPA Sample No.	D/F	Time	%R	Analytes: AL SB SA BA BE CD CA CR CO CU FE PB MG MN HG KI SE AG NA TL V ZN CN
S0	1.00	1136		X
S1	1.00	1138		X
S2	1.00	1141		X
S3	1.00	1143		X
ZZZZZZ	1.00	1145		
ZZZZZZ	1.00	1148		
ZZZZZZ	1.00	1149		
ICV	1.00	1152		X
ICB	1.00	1154		X
ICSA	1.00	1157		
ICSAB	1.00	1159		X
PBW	1.00	1201		X
LCSW	1.00	1204		X
AOC5E7	1.00	1206		X
AOC2E6	1.00	1208		X
PBW	1.00	1210		X
LCSW	1.00	1213		X
CCV	1.00	1215		X
CCB	1.00	1217		X
AOC3BB3	1.00	1220		X
AOC3BB4	1.00	1222		X
AOC5E5	1.00	1224		X
PBS	1.00	1227		X
LCSS	1.00	1229		X
AOC5SSTB5402	1.00	1231		X
PBS	1.00	1234		X
LCSS	1.00	1236		X
CCV	1.00	1238		X
CCB	1.00	1240		X
AOC5SSTB6267	1.00	1243		X
AOC2TB5624	1.00	1245		X
AOC2TB5624D	1.00	1247		X

FORM XIV - IN SW846

001982R
2/4/03

U.S. EPA - CLP

IV
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID Number: OPTIMA_1A Method: P

Start Date: 01/03/03 End Date: 01/03/03

EPA Sample No.	D/F	Time	%R	Analytes: AL SB SA BA BE CD CA CR CO CU FE PB MG MN HG KI SE AG NA TL V ZN CN
AOC2TB24I	1.00	1250		X
ICSA	1.00	1252		
ICSAB	1.00	1254		X
CCV	1.00	1257		X
CCB	1.00	1259		X

FORM XIV - IN SW846

001984

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1985

Instrument ID Number: OPTIMA_1A Method: P

Start Date: 04/03/03 End Date: 01/03/03

EPA Sample No.	D/F	Time	%R	Analytes
AOC2TB5624[illegible]	1.00	1350		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Cn
ICSA	1.00	1352		
ICSAB	1.00	1354		Ag, Na
CCV	1.00	1357		Ag, Na
CCB	1.00	1359		Ag, Na

FORM XIV - IN SW846

001984R
2/4/03

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1985

Instrument ID Number: OPTIMA_1A Method: P

Start Date: 01/03/03 End Date: 01/03/03

EPA Sample No.	D/F	Time	%R	Analytes
S0	1.00	1302		Se
S1	1.00	1304		Se
S2	1.00	1306		Se
S3	1.00	1309		Se
ZZZZZZ	1.00	1311		
ZZZZZZ	1.00	1313		
ICV	1.00	1316		Se
ICB	1.00	1318		Se
ICSA	1.00	1320		
ICSAB	1.00	1323		Se
PBW	1.00	1325		Se
LCSW	1.00	1327		Se
AOC5E7	1.00	1329		Se
AOC2E6	1.00	1332		Se
PBW	1.00	1334		Se
LCSW	1.00	1336		Se
CCV	1.00	1339		Se
CCB	1.00	1341		Se
AOC3BB3	1.00	1343		Se
AOC3BB4	1.00	1346		Se
AOC3E5	1.00	1348		Se
PBS	1.00	1350		Se
LCSS	1.00	1353		Se
AOC3SSTB5402	1.00	1355		Se
PBS	1.00	1357		Se
LCSS	1.00	1359		Se
CCV	1.00	1402		Se
CCB	1.00	1404		Se
AOC5SSTB6267	1.00	1406		Se
AOC2TB5624	1.00	1409		Se
AOC2TB5624D	1.00	1411		Se
AOC2TB5624L	1.00	1413		Se

FORM XIV - IN SW846

001985

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1985

Instrument ID Number: OPTIMA_1A Method: P

Start Date: 01/03/03 End Date: 01/03/03

EPA Sample No.	D/F	Time	%R	Analytes
S0	1.00	1302		Se
S1	1.00	1304		Se
S2	1.00	1306		Se
S3	1.00	1309		Se
ZZZZZZ	1.00	1311		
ZZZZZZ	1.00	1313		
ICV	1.00	1316		Se
ICB	1.00	1318		Se
ICSA	1.00	1320		
ICSAB	1.00	1323		Se
PBW	1.00	1325		Se
LCSW	1.00	1327		Se
AOC5E7	1.00	1329		Se
AOC2E6	1.00	1332		Se
PBW	1.00	1334		Se
LCSW	1.00	1336		Se
CCV	1.00	1339		Se
CCB	1.00	1341		Se
AOC3BB3	1.00	1343		Se
AOC3BB4	1.00	1346		Se
AOC3E5	1.00	1348		Se
PBS	1.00	1350		Se
LCSS	1.00	1353		Se
AOC3SSTB5402	1.00	1355		Se
PBS	1.00	1357		Se
LCSS	1.00	1359		Se
CCV	1.00	1402		Se
CCB	1.00	1404		Se
AOC5SSTB6267	1.00	1406		Se
AOC2TB5624	1.00	1409		Se
AOC2TB5624D	1.00	1411		Se
AOC2TB5624L	1.00	1413		Se

FORM XIV - IN SW846

001985R
2/4/03

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID Number: OPTIMA_1A Method: P

Start Date: 01/03/03 End Date: 01/03/03

EPA Sample No.	D/F	Time	%R	Analytes
ICSA	1.00	1415		
ICSAB	1.00	1418		Se
CCV	1.00	1420		Se
CCB	1.00	1422		Se

FORM XIV - IN SW846

001986

U.S. EPA - CLP

34

ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID Number: COMM_FIMS Method: CV

Start Date: 12/26/02 End Date: 12/26/02

EPA Sample No.	D/F	Time	% R	Analytes
S0	1.00	1159		X
S0.2	1.00	1201		X
S1	1.00	1202		X
S2	1.00	1203		X
S5	1.00	1205		X
S10	1.00	1206		X
ICV	1.00	1207		X
ICB	1.00	1209		X
PBS	1.00	1210		X
LCSS	1.00	1211		X
ZZZZZZ	1.00	1213		
LCSW	1.00	1214		X
ZZZZZZ	1.00	1215		
ZZZZZZ	1.00	1217		
PBW	1.00	1218		X
ZZZZZZ	1.00	1219		
CCV	1.00	1221		X
CCB	1.00	1222		X
ZZZZZZ	1.00	1223		
ZZZZZZ	1.00	1225		
ZZZZZZ	1.00	1226		
ZZZZZZ	1.00	1227		
ZZZZZZ	1.00	1229		
AOC3CTCP6	1.00	1230		X
AOC3CTCP7	1.00	1231		X
AOC3CTCP8	1.00	1233		X
CCV	1.00	1234		X
CCB	1.00	1235		X
AOC3SSTB5402	1.00	1237		X
AOC3BB3	1.00	1238		X
AOC3HD4	1.00	1239		X
AOC3E5	1.00	1241		X

FORM XIV - IN SW846

U.S. EPA - CLP

34

ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID Number: COMM_FIMS Method: CV

Start Date: 12/26/02 End Date: 12/26/02

EPA Sample No.	D/F	Time	% R	Analytes
ZZZZZZ	1.00	1242		
ZZZZZZ	1.00	1243		
ZZZZZZ	1.00	1245		
ZZZZZZ	1.00	1246		
CCV	1.00	1247		X
CCB	1.00	1249		X

FORM XIV - IN SW846

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID Number: COMM_FIMS Method: CV

Start Date: 12/31/02 End Date: 12/31/02

EPA Sample No.	D/F	Time	% R	Analytes
S0	1.00	1101		X
S0.2	1.00	1102		X
S1	1.00	1103		X
S2	1.00	1105		X
S5	1.00	1106		X
S10	1.00	1107		X
ICV	1.00	1110		X
ICB	1.00	1112		X
PBW	1.00	1113		X
LCSW	1.00	1114		X
PBW	1.00	1116		X
AOC3CTCP6	1.00	1117		X
AOC3CTCP7	1.00	1118		X
AOC3CTCP8	1.00	1120		X
ZZZZZZ	1.00	1121		
AOC5E7	1.00	1122		X
CCV	1.00	1123		X
CCB	1.00	1125		X
AOC5WTB62W	1.00	1126		X
AOC5WTB62W	1.00	1127		X
AOC7WTB65GW	1.00	1129		X
AOC7WTB65GW	1.00	1130		X
AOC2E6	1.00	1131		X
AOC2E6D	1.00	1133		X
AOC2E6S	1.00	1134		X
PBS	1.00	1135		X
CCV	1.00	1137		X
CCB	1.00	1138		X
LCSS	1.00	1139		X
AOC5SSTB6267	1.00	1141		X
ZZZZZZ	1.00	1142		
ZZZZZZ	1.00	1143		

FORM XIV - IN SW846

U.S. EPA - CLP

14

ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID Number: COMM_FIMS Method: CV

Start Date: 12/31/02 End Date: 12/31/02

EPA Sample No.	D/F	Time	% R	Analytes
AOC2TB24	1.00	1145		
AOC2TB24D	1.00	1146		
AOC2TB24S	1.00	1147		X
ZZZZZZ	1.00	1149		
CCV	1.00	1150		X
CCB	1.00	1151		X
ZZZZZZ	1.00	1153		
ZZZZZZ	1.00	1154		
ZZZZZZ	1.00	1155		
CCV	1.00	1158		X
CCB	1.00	1200		X

FORM XIV - IN SW846

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: A1905

Instrument ID Number: COMM_FIMS Method: CV

Start Date: 12/31/02 End Date: 12/31/02

EPA Sample No.	D/F	Time	%R	Analytes: AS AL	AB BS	AA BE	BA DA	CA RO	CD UE	CE BR	PB GN	MG NI	HG	KI	SE GA	AL	TL	VA NA	ZN	CN
AOC2TB5624	1.00	1145											X							
AOC2TB5624D	1.00	1146											X							
AOC2TB5624S	1.00	1147											X							
ZZZZZZ	1.00	1149																		
CCV	1.00	1150											X							
CCB	1.00	1151											X							
ZZZZZZ	1.00	1153																		
ZZZZZZ	1.00	1154																		
ZZZZZZ	1.00	1155																		
CCV	1.00	1158											X							
CCB	1.00	1209											X							

FORM XIV - IN SW846

001990R
2/4/03

Instrument Raw Data

- [x] ICP
- [x] Mercury
- [ ] Cyanide

001991

Method: 6010 A123118 Page 1 Date: 12/31/2002 9:13:07 AM

Analysis Begun

Start Time: 12/31/2002 9:04:56 AM
Logged In Analyst: optima2
Spectrometer Model: Optima 3100 XL
Plasma On Time: 12/31/2002 8:03:09 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\pe\administrator\Sample Information\RMG.sif
Results Data Set: A123101
Results Library: d:\pe\administrator\Results\Results.mdb

Method Loaded
Method Name: 6010
IEC File: A020508X.iec
Method Description: Working method for all analytes
Method Last Saved: 11/23/2002 11:13:44 AM
MSF File:

Sequence No.: 1
Sample ID: S0
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 12/31/2002 9:04:56 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Ag 328.068	1028.5	888.88	86.42%	[0.00]	mg/L
Al 308.215	10240.6	138.01	1.35%	[0.00]	mg/L
As 188.979	-14.7	3.61	24.65%	[0.00]	mg/L
Ba 233.527	-936.2	2.03	0.22%	[0.00]	mg/L
Be 313.107	-7777.0	4.06	0.05%	[0.00]	mg/L
Co 228.616	-411.5	0.47	0.11%	[0.00]	mg/L
Cr 267.716	-538.5	60.65	11.15%	[0.00]	mg/L
Cu 324.752	4380.9	51.42	1.17%	[0.00]	mg/L
Fe 273.955	-1286.8	0.45	0.04%	[0.00]	mg/L
Mg 279.077	-9795.9	136.62	2.36%	[0.00]	mg/L
Mn 257.610	-589.6	5.11	0.87%	[0.00]	mg/L
Ni 231.604	41.7	20.43	48.98%	[0.00]	mg/L
Pb 220.353	149.0	0.28	0.19%	[0.00]	mg/L
Sb 206.836	172.9	3.50	2.03%	[0.00]	mg/L
Se 196.026	50.8	0.01	0.01%	[0.00]	mg/L
Tl 190.801	-4.4	0.29	6.43%	[0.00]	mg/L
V 292.402	537.7	63.95	11.89%	[0.00]	mg/L
Zn 206.200	-268.8	0.53	0.20%	[0.00]	mg/L
Na 330.237	1579.6	192.43	12.18%	[0.00]	mg/L
Cd 226.502	-520.9	1.76	0.34%	[0.00]	mg/L
Tl 334.940	1744.7	25.18	1.44%	[0.00]	mg/L
Ca 227.546	97.4	6.51	6.68%	[0.00]	mg/L

Analysis Begun

Start Time: 12/31/2002 9:11:38 AM
Logged In Analyst: optima2
Spectrometer Model: Optima 3100 XL
Plasma On Time: 12/31/2002 8:03:09 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\pe\administrator\Sample Information\RMG.sif
Results Data Set: A123101
Results Library: d:\pe\administrator\Results\Results.mdb

Sequence No.: 2
Sample ID: S1
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 2
Date Collected: 12/31/2002 9:11:38 AM
Sample Prep Volume:
Data Type: Original

001992

Method: 6010 Page 2 Date: 12/31/2002 9:21:16 AM

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Ag 328.068	1213030.4	4095.67	0.34%	[2.5]	mg/L
Al 308.215	1325376.5	5148.58	0.39%	[20]	mg/L
As 188.979	2558.4	23.29	0.91%	[1]	mg/L
Ba 233.527	2265657.7	5059.94	0.22%	[20]	mg/L
Be 313.107	5621855.8	47929.75	0.85%	[0.5]	mg/L
Co 228.616	330003.0	1478.99	0.45%	[5]	mg/L
Cr 267.716	930673.9	3290.30	0.35%	[2]	mg/L
Cu 324.752	1676057.6	7600.28	0.45%	[2.5]	mg/L
Fe 273.955	655908.1	1863.85	0.28%	[10]	mg/L
Mg 279.077	2828035.7	7072.57	0.25%	[50]	mg/L
Mn 257.610	2106709.8	22124.72	1.05%	[5]	mg/L
Ni 231.604	422125.1	1156.50	0.27%	[5]	mg/L
Pb 220.353	26375.8	295.20	1.12%	[1]	mg/L
Sb 206.836	5613.7	134.65	2.40%	[1]	mg/L
Se 196.026	3370.4	42.69	1.27%	[1]	mg/L
Tl 190.801	3569.4	55.72	1.56%	[1]	mg/L
V 292.402	2417046.6	23700.76	0.98%	[5]	mg/L
Zn 206.200	682873.6	1525.24	0.22%	[5]	mg/L
Na 330.237	151802.7	681.16	0.45%	[50]	mg/L
Cd 226.502	237283.8	423.37	0.18%	[0.5]	mg/L
Tl 334.940	1498206.9	4105.22	0.27%	[1]	mg/L
Ca 227.546	47471.9	1101.05	2.32%	[50]	mg/L

Sequence No.: 3
Sample ID: S2
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 9
Date Collected: 12/31/2002 9:14:15 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Ag 328.068	604829.7	8793.38	1.45%	[1.25]	mg/L
Al 308.215	650775.5	10907.22	1.68%	[10]	mg/L
As 188.979	1289.5	1.14	0.09%	[0.5]	mg/L
Ba 233.527	1173822.7	13165.26	1.12%	[10]	mg/L
Be 313.107	2818172.0	22410.44	0.80%	[0.25]	mg/L
Co 228.616	168873.4	1781.60	1.06%	[2.5]	mg/L
Cr 267.716	470141.1	5713.09	1.22%	[1]	mg/L
Cu 324.752	832550.0	12401.31	1.49%	[1.25]	mg/L
Fe 273.955	333062.5	3879.73	1.16%	[5]	mg/L
Mg 279.077	1425600.3	14541.83	1.02%	[25]	mg/L
Mn 257.610	1067690.9	12840.86	1.20%	[2.5]	mg/L
Ni 231.604	216138.9	2738.28	1.27%	[2.5]	mg/L
Pb 220.353	13428.5	2.48	0.02%	[0.5]	mg/L
Sb 206.836	2815.1	15.19	0.54%	[0.5]	mg/L
Se 196.026	1721.4	3.26	0.19%	[0.5]	mg/L
Tl 190.801	1825.1	1.78	0.10%	[0.5]	mg/L
V 292.402	1196079.2	17519.94	1.46%	[2.5]	mg/L
Zn 206.200	352230.9	2515.16	0.71%	[2.5]	mg/L
Na 330.237	71978.6	1485.93	2.06%	[25]	mg/L
Cd 226.502	120712.7	1192.47	0.99%	[0.25]	mg/L
Tl 334.940	754823.1	10723.20	1.42%	[0.5]	mg/L
Ca 227.546	23294.6	14.37	0.06%	[25]	mg/L

Sequence No.: 4
Sample ID: S3
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 10
Date Collected: 12/31/2002 9:18:24 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units

001993

Ag 328.068	11879.0	357.35	3.01%	[0.025] mg/L
Al 308.215	13143.1	486.95	3.71%	[0.2] mg/L
As 188.979	30.2	1.02	3.37%	[0.01] mg/L
Ba 233.527	26254.2	586.17	2.23%	[0.2] mg/L
Be 313.107	58669.2	952.33	1.59%	[0.005] mg/L
Co 228.616	3673.4	10.62	0.29%	[0.05] mg/L
Cr 267.716	10108.3	164.88	1.63%	[0.02] mg/L
Cu 324.752	19443.3	940.00	4.83%	[0.025] mg/L
Fe 273.955	7259.4	115.49	1.59%	[0.1] mg/L
Mg 279.077	30723.5	569.57	1.85%	[0.5] mg/L
Mn 257.610	23568.4	509.43	2.16%	[0.05] mg/L
Ni 231.604	4770.5	100.96	2.12%	[0.05] mg/L
Pb 220.353	287.4	6.52	2.27%	[0.01] mg/L
Sb 206.836	70.3	10.23	14.56%	[0.01] mg/L
Se 196.026	37.0	0.75	2.03%	[0.01] mg/L
Tl 190.801	43.2	1.14	2.64%	[0.01] mg/L
V 292.402	25241.0	532.19	2.11%	[0.05] mg/L
Zn 206.200	8085.9	146.44	1.81%	[0.05] mg/L
Na 330.237	1329.4	185.51	13.95%	[0.5] mg/L
Cd 226.502	2698.6	51.71	1.92%	[0.005] mg/L
Ti 334.940	17428.6	358.31	2.06%	[0.01] mg/L
Ca 227.546	491.7	13.76	2.80%	[0.5] mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	484900	0.00000	0.999999	
Al 308.215	3	Lin Thru 0	0.0	66030	0.00000	0.999974	
As 188.979	3	Lin Thru 0	0.0	2563	0.00000	0.999994	
Ba 233.527	3	Lin Thru 0	0.0	114100	0.00000	0.999896	
Be 313.107	3	Lin Thru 0	0.0	11250000	0.00000	0.999999	
Co 228.616	3	Lin Thru 0	0.0	46250	0.00000	0.999972	
Cr 267.716	3	Lin Thru 0	0.0	466300	0.00000	0.999991	
Cu 324.752	3	Lin Thru 0	0.0	669600	0.00000	0.999996	
Fe 273.955	3	Lin Thru 0	0.0	65800	0.00000	0.999980	
Mg 279.077	3	Lin Thru 0	0.0	56650	0.00000	0.999995	
Mn 257.610	3	Lin Thru 0	0.0	422500	0.00000	0.999985	
Ni 231.604	3	Lin Thru 0	0.0	84836	0.00000	0.999954	
Pb 220.353	3	Lin Thru 0	0.0	26470	0.00000	0.999973	
Sb 206.836	3	Lin Thru 0	0.0	5617	0.00000	0.999997	
Se 196.026	3	Lin Thru 0	0.0	3385	0.00000	0.999963	
Tl 190.801	3	Lin Thru 0	0.0	3586	0.00000	0.999958	
V 292.402	3	Lin Thru 0	0.0	482400	0.00000	0.999991	
Zn 206.200	3	Lin Thru 0	0.0	137400	0.00000	0.999920	
Na 330.237	3	Lin Thru 0	0.0	3005	0.00000	0.999781	
Cd 226.502	3	Lin Thru 0	0.0	476200	0.00000	0.999975	
Ti 334.940	3	Lin Thru 0	0.0	1501000	0.00000	0.999994	
Ca 227.546	3	Lin Thru 0	0.0	945.9	0.00000	0.999972	

Sequence No.: 5
Sample ID: CHECK
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 12/31/2002 9:22:23 AM

Sample Prep Volume:
Data Type: Original

Mean Data: CHECK

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	1223324.3	2.5256	mg/L	0.02224	2.5256	mg/L	0.02224	0.88%
Al 308.215	1325087.7	20.068	mg/L	0.1744	20.068	mg/L	0.1744	0.87%
As 188.979	2534.3	1.0092	mg/L	0.00446	1.0092	mg/L	0.00446	0.44%
Ba 233.527	2243925.8	19.677	mg/L	0.1209	19.677	mg/L	0.1209	0.61%
Be 313.107	5634295.7	0.5019	mg/L	0.00206	0.5019	mg/L	0.00206	0.41%
Co 228.616	332145.6	5.0115	mg/L	0.02905	5.0115	mg/L	0.02905	0.58%
Cr 267.716	933087.6	2.0013	mg/L	0.01275	2.0013	mg/L	0.01275	0.64%
Cu 324.752	1681727.0	2.5049	mg/L	0.02121	2.5049	mg/L	0.02121	0.85%
Fe 273.955	655269.1	9.9591	mg/L	0.06554	9.9591	mg/L	0.06554	0.66%
Mg 279.077	2831931.9	50.013	mg/L	0.2687	50.013	mg/L	0.2687	0.54%

Mn 257.610	2051749.0	4.8558	mg/L	0.03109	4.8558	mg/L	0.03109	0.64%
Ni 231.604	417285.0	4.9180	mg/L	0.02331	4.9180	mg/L	0.02331	0.47%
Pb 220.353	25922.1	0.9824	mg/L	0.01123	0.9824	mg/L	0.01123	1.14%
Sb 206.836	5602.3	1.0054	mg/L	0.00317	1.0054	mg/L	0.00317	0.31%
Se 196.026	3382.8	0.5969	mg/L	0.01021	0.5969	mg/L	0.01021	1.63%
Tl 190.801	3531.4	0.9943	mg/L	0.00538	0.9943	mg/L	0.00538	0.54%
V 292.402	2380963.0	4.9393	mg/L	0.03962	4.9393	mg/L	0.03962	0.80%
Zn 206.200	683749.3	4.9741	mg/L	0.01567	4.9741	mg/L	0.01567	0.32%
Na 330.237	151737.4	50.673	mg/L	0.2706	50.673	mg/L	0.2706	0.53%
Cd 226.502	237238.4	0.4989	mg/L	0.00269	0.4989	mg/L	0.00269	0.54%
Ti 334.940	1495294.5	0.9965	mg/L	0.00817	0.9965	mg/L	0.00817	0.82%
Ca 227.546	46895.8	49.229	mg/L	0.7410	49.229	mg/L	0.7410	1.51%

Sequence No.: 6
Sample ID: LRA1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 12/31/2002 9:25:04 AM

Sample Prep Volume:
Data Type: Original

Mean Data: LRA1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-7876.4	-0.0052	mg/L	0.00034	-0.0052	mg/L	0.00034	6.49%
Al 308.215	50405.7	0.7634	mg/L	0.00445	0.7634	mg/L	0.00445	0.58%
As 188.979	50510.3	19.903	mg/L	0.1341	19.903	mg/L	0.1341	0.67%
Ba 233.527	-2219.8	0.0243	mg/L	0.00025	0.0243	mg/L	0.00025	1.02%
Be 313.107	Saturated3 Saturated in preshot (code 3)							
Co 228.616	1366938.6	20.631	mg/L	0.0072	20.631	mg/L	0.0072	0.03%
Cr 267.716	3276697.1	19.895	mg/L	0.1088	19.895	mg/L	0.1088	0.55%
Cu 324.752	13185051.7	19.663	mg/L	0.0457	19.663	mg/L	0.0457	0.23%
Fe 273.955	1342830.9	20.409	mg/L	0.0025	20.409	mg/L	0.0025	0.01%
Mg 279.077	1109164.2	19.673	mg/L	0.0221	19.673	mg/L	0.0221	0.11%
Mn 257.610	7786897.7	18.433	mg/L	0.1183	18.433	mg/L	0.1183	0.64%
Ni 231.604	1705160.9	20.096	mg/L	0.0812	20.096	mg/L	0.0812	0.40%
Pb 220.353	556615.3	21.032	mg/L	0.0398	21.032	mg/L	0.0398	0.19%
Sb 206.836	117412.6	20.917	mg/L	0.1148	20.917	mg/L	0.1148	0.55%
Se 196.026	67271.7	19.859	mg/L	0.1459	19.859	mg/L	0.1459	0.73%
Tl 190.801	75359.0	21.042	mg/L	0.0889	21.042	mg/L	0.0889	0.42%
V 292.402	9316388.9	19.354	mg/L	0.0721	19.354	mg/L	0.0721	0.37%
Zn 206.200	2609459.6	19.018	mg/L	0.0238	19.018	mg/L	0.0238	0.13%
Na 330.237	65207.3	21.455	mg/L	0.2268	21.455	mg/L	0.2268	1.06%
Cd 226.502	9206126.2	19.335	mg/L	0.0610	19.335	mg/L	0.0610	0.32%
Ti 334.940	Saturated2 Saturated in preshot (code 2)							
Ca 227.546	26130.1	26.153	mg/L	0.1335	26.153	mg/L	0.1335	0.51%

Analysis Begun

Start Time: 12/31/2002 9:38:12 AM
Logged In Analyst: optima2
Spectrometer Model: Optima 3100 XL

Plasma On Time: 12/31/2002 8:03:09 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\pe\administrator\Sample Information\KMG.sif
Results Data Set: A123103
Results Library: d:\pe\administrator\Results\Results.mdb

Sequence No.: 8
Sample ID: ICV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/31/2002 9:38:12 AM

Sample Prep Volume:
Data Type: Original

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Ag 328.068	605421.4	1.2500	mg/L	0.00370	1.2500	mg/L	0.00370	0.30%
Al 308.215	650738.2	9.8551	mg/L	0.00393	9.8551	mg/L	0.00393	0.04%
As 188.979	1311.7	0.5218	mg/L	0.00215	0.5218	mg/L	0.00215	0.41%
Ba 233.527	1202802.2	10.547	mg/L	0.0237	10.547	mg/L	0.0237	0.22%
Be 313.107	2804582.6	0.2493	mg/L	0.00048	0.2493	mg/L	0.00048	0.19%
Co 228.616	169803.6	2.5627	mg/L	0.00995	2.5627	mg/L	0.00995	0.39%
Cr 267.716	467460.8	1.0026	mg/L	0.00200	1.0026	mg/L	0.00200	0.20%
Cu 324.752	857166.1	1.2771	mg/L	0.00118	1.2771	mg/L	0.00118	0.09%
Fe 273.955	332540.6	5.0541	mg/L	0.02158	5.0541	mg/L	0.02158	0.43%
Mg 279.077	1427560.2	25.212	mg/L	0.0683	25.212	mg/L	0.0683	0.27%
Mn 257.610	1065939.3	2.5227	mg/L	0.00871	2.5227	mg/L	0.00871	0.35%
Ni 231.604	217058.5	2.5584	mg/L	0.00528	2.5584	mg/L	0.00528	0.21%
Pb 220.353	13518.9	0.5120	mg/L	0.00017	0.5120	mg/L	0.00017	0.03%
Sb 206.836	3009.9	0.5395	mg/L	0.00136	0.5395	mg/L	0.00136	0.25%
Se 196.026	1722.5	0.5076	mg/L	0.00068	0.5076	mg/L	0.00068	0.13%
Tl 190.801	1840.0	0.5174	mg/L	0.00176	0.5174	mg/L	0.00176	0.34%
V 292.402	1199172.7	2.4880	mg/L	0.00464	2.4880	mg/L	0.00464	0.19%
Zn 206.200	350983.0	2.5538	mg/L	0.01122	2.5538	mg/L	0.01122	0.44%
Na 330.237	72615.6	24.125	mg/L	0.0375	24.125	mg/L	0.0375	0.16%
Cd 226.502	121881.7	0.2563	mg/L	0.00082	0.2563	mg/L	0.00082	0.32%
Tl 334.940	2624.4	0.0018	mg/L	0.00004	0.0019	mg/L	0.00004	2.47%
Ca 227.546	23143.5	24.289	mg/L	0.0557	24.289	mg/L	0.0557	0.23%

Sequence No.: 9
Sample ID: ICB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 12/31/2002 9:42:23 AM

Sample Prep Volume:
Data Type: Original

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-622.2	-0.0013	mg/L	0.00023	-0.0013	mg/L	0.00023	17.87%
Al 308.215	290.2	0.0044	mg/L	0.00329	0.0044	mg/L	0.00329	72.82%
As 188.979	8.7	0.0034	mg/L	0.00052	0.0034	mg/L	0.00052	15.33%
Ba 233.527	172.1	0.0015	mg/L	0.00023	0.0015	mg/L	0.00023	14.94%
Be 313.107	4859.4	0.0004	mg/L	0.00005	0.0004	mg/L	0.00005	12.37%
Co 228.616	31.6	0.0005	mg/L	0.00007	0.0005	mg/L	0.00007	13.64%
Cr 267.716	89.7	0.0002	mg/L	0.00002	0.0002	mg/L	0.00002	8.31%
Cu 324.752	6012.4	0.0090	mg/L	0.00081	0.0090	mg/L	0.00081	9.07%
Fe 273.955	15.2	0.0002	mg/L	0.00039	0.0002	mg/L	0.00039	170.42%
Mg 279.077	234.8	0.0041	mg/L	0.00049	0.0041	mg/L	0.00049	11.93%
Mn 257.610	157.3	0.0004	mg/L	0.00005	0.0004	mg/L	0.00005	12.97%
Ni 231.604	-6.1	-0.0001	mg/L	0.00003	-0.0001	mg/L	0.00003	36.57%
Pb 220.353	-12.1	-0.0005	mg/L	0.00008	-0.0005	mg/L	0.00008	17.62%
Sb 206.836	7.6	0.0013	mg/L	0.00076	0.0013	mg/L	0.00076	56.22%
Se 196.026	2.5	0.0007	mg/L	0.00111	0.0007	mg/L	0.00111	149.52%
Tl 190.801	3.6	0.0010	mg/L	0.00032	0.0010	mg/L	0.00032	31.42%
V 292.402	7.2	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	143.09%
Zn 206.200	368.2	0.0027	mg/L	0.00050	0.0027	mg/L	0.00050	18.81%
Na 330.237	-47.2	-0.0157	mg/L	0.07337	-0.0157	mg/L	0.07337	466.43%
Cd 226.502	-7.3	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	43.62%
Tl 334.940	76.7	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	23.84%
Ca 227.546	13.8	0.0145	mg/L	0.00051	0.0145	mg/L	0.00051	3.54%

Sequence No.: 10
Sample ID: ICSA0
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 12/31/2002 9:46:25 AM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSA0

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-11716.2	-0.0037	mg/L	0.00017	-0.0037	mg/L	0.00017	4.55%
Al 308.215	31270900.3	473.58	mg/L	2.211	473.58	mg/L	2.211	0.47%
As 188.979	0.3	0.0196	mg/L	0.00281	0.0196	mg/L	0.00281	14.38%

Ba 233.527	1496.6	0.0042	mg/L	0.00010	0.0042	mg/L	0.00010	2.34%
Be 313.107	3569.4	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	3.32%
Co 228.616	-43.8	-0.0016	mg/L	0.00056	-0.0016	mg/L	0.00056	35.82%
Cr 267.716	-740.4	0.0005	mg/L	0.00004	0.0005	mg/L	0.00004	8.28%
Cu 324.752	-1001.0	0.0002	mg/L	0.00029	0.0002	mg/L	0.00029	1.44%
Fe 273.955	11027789.3	167.61	mg/L	0.738	167.61	mg/L	0.738	0.44%
Mg 279.077	26342277.0	464.98	mg/L	2.081	464.98	mg/L	2.081	0.45%
Mn 257.610	-1585.6	-0.0050	mg/L	0.00002	-0.0050	mg/L	0.00002	0.38%
Ni 231.604	-42.4	-0.0005	mg/L	0.00013	-0.0005	mg/L	0.00013	26.14%
Pb 220.353	-969.1	0.0002	mg/L	0.00188	0.0002	mg/L	0.00188	811.01%
Sb 206.836	65.1	0.0215	mg/L	0.00718	0.0215	mg/L	0.00718	33.48%
Se 196.026	-144.6	0.0061	mg/L	0.00343	0.0061	mg/L	0.00343	56.16%
Tl 190.801	54.5	0.0126	mg/L	0.00181	0.0126	mg/L	0.00181	14.41%
V 292.402	-447.0	-0.0023	mg/L	0.00021	-0.0023	mg/L	0.00021	8.86%
Zn 206.200	3006.5	-0.0021	mg/L	0.00020	-0.0021	mg/L	0.00020	9.48%
Na 330.237	1075.1	0.1234	mg/L	0.00175	0.1234	mg/L	0.00175	1.42%
Cd 226.502	5264.4	0.0045	mg/L	0.00023	0.0045	mg/L	0.00023	5.15%
Tl 334.940	9543.9	0.0098	mg/L	0.00012	0.0098	mg/L	0.00012	1.25%
Ca 227.546	464700.1	490.04	mg/L	4.717	490.04	mg/L	4.717	0.96%

Sequence No.: 11
Sample ID: ICSAB0
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 12/31/2002 9:49:04 AM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB0

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	82882.9	0.1907	mg/L	0.00179	0.1907	mg/L	0.00179	0.94%
Al 308.215	30034019.4	454.85	mg/L	0.634	454.85	mg/L	0.634	0.14%
As 188.979	208.7	0.1044	mg/L	0.00354	0.1044	mg/L	0.00354	3.39%
Ba 233.527	55589.8	0.4797	mg/L	0.00280	0.4797	mg/L	0.00280	0.58%
Be 313.107	5258442.7	0.4674	mg/L	0.00016	0.4674	mg/L	0.00016	0.03%
Co 228.616	28199.9	0.4277	mg/L	0.00988	0.4277	mg/L	0.00988	2.31%
Cr 267.716	208571.6	0.4493	mg/L	0.00291	0.4493	mg/L	0.00291	0.65%
Cu 324.752	321795.0	0.5006	mg/L	0.00414	0.5006	mg/L	0.00414	0.83%
Fe 273.955	10562644.5	160.54	mg/L	0.024	160.54	mg/L	0.024	0.01%
Mg 279.077	25121616.7	443.44	mg/L	0.482	443.44	mg/L	0.482	0.11%
Mn 257.610	190085.8	0.4535	mg/L	0.00090	0.4535	mg/L	0.00090	0.20%
Ni 231.604	72431.0	0.8538	mg/L	0.00182	0.8538	mg/L	0.00182	0.21%
Pb 220.353	10746.6	0.4416	mg/L	0.00740	0.4416	mg/L	0.00740	1.68%
Sb 206.836	3373.8	0.6105	mg/L	0.01665	0.6105	mg/L	0.01665	2.73%
Se 196.026	1565.8	0.5088	mg/L	0.01591	0.5088	mg/L	0.01591	3.13%
Tl 190.801	343.9	0.0940	mg/L	0.00335	0.0940	mg/L	0.00335	3.56%
V 292.402	219301.1	0.4542	mg/L	0.00289	0.4542	mg/L	0.00289	0.64%
Zn 206.200	119438.2	0.8468	mg/L	0.00310	0.8468	mg/L	0.00310	0.37%
Na 330.237	146986.2	48.689	mg/L	0.4491	48.689	mg/L	0.4491	0.92%
Cd 226.502	420875.3	0.8777	mg/L	0.00471	0.8777	mg/L	0.00471	0.54%
Tl 334.940	9260.3	0.0094	mg/L	0.00003	0.0094	mg/L	0.00003	0.29%
Ca 227.546	444964.9	469.19	mg/L	4.565	469.19	mg/L	4.565	0.97%

Sequence No.: 12
Sample ID: MB4955,4955
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 17
Date Collected: 12/31/2002 9:51:48 AM

Sample Prep Volume:
Data Type: Original

Mean Data: MB4955,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	1650.6	0.0034	mg/L	0.00061	0.0034	mg/L	0.00061	17.80%
Al 308.215	2276.8	0.0345	mg/L	0.00989	0.0345	mg/L	0.00989	28.68%
As 188.979	6.4	0.0025	mg/L	0.00073	0.0025	mg/L	0.00073	29.21%
Ba 233.527	656.1	0.0075	mg/L	0.00032	0.0075	mg/L	0.00032	4.32%
Be 313.107	4552.5	0.0004	mg/L	0.00005	0.0004	mg/L	0.00005	12.45%
Co 228.616	39.6	0.0006	mg/L	0.00006	0.0006	mg/L	0.00006	9.69%

Cr 267.716	56.3	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	4.65%
Cu 324.752	7740.7	0.0116	mg/L	0.00305	0.0116	mg/L	0.00305	26.42%
Fe 273.955	1584.4	0.0241	mg/L	0.00585	0.0241	mg/L	0.00585	24.29%
Mg 279.077	1694.5	0.0299	mg/L	0.01606	0.0299	mg/L	0.01606	53.67%
Mn 257.610	393.9	0.0009	mg/L	0.00002	0.0009	mg/L	0.00002	2.37%
Ni 231.604	33.5	0.0004	mg/L	0.00003	0.0004	mg/L	0.00003	7.86%
Pb 220.353	-0.3	0.0000	mg/L	0.00033	0.0000	mg/L	0.00033	>999.9%
Sb 206.836	11.5	0.0020	mg/L	0.00039	0.0020	mg/L	0.00039	19.30%
Se 196.026	6.0	0.0018	mg/L	0.00017	0.0018	mg/L	0.00017	9.56%
Tl 190.801	0.6	0.0002	mg/L	0.00072	0.0002	mg/L	0.00072	412.42%
V 292.402	-90.4	-0.0002	mg/L	0.00015	-0.0002	mg/L	0.00015	80.44%
Zn 206.200	554.5	0.0040	mg/L	0.00091	0.0040	mg/L	0.00091	22.66%
Na 330.237	-73.2	-0.0243	mg/L	0.06219	-0.0243	mg/L	0.06219	256.05%
Cd 226.502	8.9	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	168.57%
Ti 334.940	535.8	0.0004	mg/L	0.00002	0.0004	mg/L	0.00002	6.72%
Ca 227.546	56.0	0.0588	mg/L	0.00207	0.0588	mg/L	0.00207	3.51%

Sequence No.: 13 **Autosampler Location: 18**
Sample ID: LCS-4955,4955 **Date Collected: 12/31/2002 9:55:50 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: LCS-4955,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	547611.6	1.1306	mg/L	0.00102	1.1306	mg/L	0.00102	0.09%
Al 308.215	594236.7	8.9994	mg/L	0.03153	8.9994	mg/L	0.03153	0.35%
As 188.979	1209.7	0.4810	mg/L	0.00204	0.4810	mg/L	0.00204	0.42%
Ba 233.527	1057270.0	9.2708	mg/L	0.03091	9.2708	mg/L	0.03091	0.33%
Be 313.107	2562694.3	0.2278	mg/L	0.00141	0.2278	mg/L	0.00141	0.62%
Co 228.616	151274.2	2.2831	mg/L	0.00753	2.2831	mg/L	0.00753	0.33%
Cr 267.716	422455.1	0.9061	mg/L	0.00349	0.9061	mg/L	0.00349	0.38%
Cu 324.752	766680.7	1.1422	mg/L	0.00567	1.1422	mg/L	0.00567	0.50%
Fe 273.955	300133.8	4.5616	mg/L	0.01237	4.5616	mg/L	0.01237	0.27%
Mg 279.077	1269884.2	22.427	mg/L	0.0950	22.427	mg/L	0.0950	0.42%
Mn 257.610	974391.0	2.3061	mg/L	0.01173	2.3061	mg/L	0.01173	0.51%
Ni 231.604	195439.7	2.3035	mg/L	0.02261	2.3035	mg/L	0.02261	0.98%
Pb 220.353	12372.2	0.4685	mg/L	0.00127	0.4685	mg/L	0.00127	0.27%
Sb 206.836	2687.6	0.4817	mg/L	0.00026	0.4817	mg/L	0.00026	0.05%
Se 196.026	1537.2	0.4530	mg/L	0.00122	0.4530	mg/L	0.00122	0.27%
Tl 190.801	1670.7	0.4700	mg/L	0.00143	0.4700	mg/L	0.00143	0.30%
V 292.402	1076816.4	2.2341	mg/L	0.01209	2.2341	mg/L	0.01209	0.54%
Zn 206.200	315607.2	2.2964	mg/L	0.00782	2.2964	mg/L	0.00782	0.34%
Na 330.237	64651.7	21.478	mg/L	0.0493	21.478	mg/L	0.0493	0.23%
Cd 226.502	110976.1	0.2334	mg/L	0.00101	0.2334	mg/L	0.00101	0.43%
Ti 334.940	1472.0	0.0010	mg/L	0.00004	0.0010	mg/L	0.00004	4.43%
Ca 227.546	20918.6	21.955	mg/L	0.0181	21.955	mg/L	0.0181	0.08%

Sequence No.: 14 **Autosampler Location: 19**
Sample ID: A1912-01D,4955 **Date Collected: 12/31/2002 10:00:03 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: A1912-01D,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	611.9	0.0108	mg/L	0.00005	0.0108	mg/L	0.00005	0.50%
Al 308.215	5125.5	0.0776	mg/L	0.00068	0.0776	mg/L	0.00068	0.88%
As 188.979	-9.7	0.0029	mg/L	0.00187	0.0029	mg/L	0.00187	65.72%
Ba 233.527	24087.6	0.2070	mg/L	0.00007	0.2070	mg/L	0.00007	0.03%
Be 313.107	27780.3	0.0025	mg/L	0.00000	0.0025	mg/L	0.00000	0.05%
Co 228.616	208.5	0.0023	mg/L	0.00010	0.0023	mg/L	0.00010	4.31%
Cr 267.716	1620.5	0.0016	mg/L	0.00007	0.0016	mg/L	0.00007	4.17%
Cu 324.752	961.0	-0.0076	mg/L	0.00188	-0.0076	mg/L	0.00188	24.82%
Fe 273.955	4146998.5	63.028	mg/L	0.2429	63.028	mg/L	0.2429	0.39%

Mg 279.077	1355726.2	24.003	mg/L	0.1214	24.003	mg/L	0.1214	0.51%
Mn 257.610	5962485.1	14.113	mg/L	0.0914	14.113	mg/L	0.0914	0.65%
Ni 231.604	1527.4	0.0168	mg/L	0.00007	0.0168	mg/L	0.00007	0.39%
Pb 220.353	42.6	0.0008	mg/L	0.00000	0.0008	mg/L	0.00000	0.61%
Sb 206.836	20.7	0.0050	mg/L	0.00006	0.0050	mg/L	0.00006	1.23%
Se 196.026	-20.9	-0.0003	mg/L	0.00016	-0.0003	mg/L	0.00016	56.07%
Tl 190.801	-313.6	-0.0255	mg/L	0.00099	-0.0255	mg/L	0.00099	3.90%
V 292.402	62.2	0.0006	mg/L	0.00007	0.0006	mg/L	0.00007	12.09%
Zn 206.200	971.0	0.0026	mg/L	0.00045	0.0026	mg/L	0.00045	17.51%
Na 330.237	349982.4	116.41	mg/L	0.039	116.41	mg/L	0.039	0.03%
Cd 226.502	1756.2	0.0012	mg/L	0.00001	0.0012	mg/L	0.00001	0.67%
Ti 334.940	6412.4	0.0050	mg/L	0.00006	0.0050	mg/L	0.00006	1.14%
Ca 227.546	94646.4	99.512	mg/L	0.0800	99.512	mg/L	0.0800	0.08%

Sequence No.: 15 **Autosampler Location: 20**
Sample ID: A1912-02D,4955 **Date Collected: 12/31/2002 10:04:16 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: A1912-02D,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-849.0	0.0111	mg/L	0.00003	0.0111	mg/L	0.00003	0.23%
Al 308.215	10765.4	0.1630	mg/L	0.00126	0.1630	mg/L	0.00126	0.78%
As 188.979	-10.8	0.0046	mg/L	0.00054	0.0046	mg/L	0.00054	11.83%
Ba 233.527	13021.2	0.1091	mg/L	0.00011	0.1091	mg/L	0.00011	0.10%
Be 313.107	18544.6	0.0017	mg/L	0.00003	0.0017	mg/L	0.00003	1.77%
Co 228.616	546.0	0.0071	mg/L	0.00011	0.0071	mg/L	0.00011	1.57%
Cr 267.716	1581.8	0.0016	mg/L	0.00014	0.0016	mg/L	0.00014	8.73%
Cu 324.752	-2052.8	-0.0104	mg/L	0.00082	-0.0104	mg/L	0.00082	7.81%
Fe 273.955	5333333.5	81.059	mg/L	0.6469	81.059	mg/L	0.6469	0.80%
Mg 279.077	1054635.7	18.692	mg/L	0.0138	18.692	mg/L	0.0138	0.07%
Mn 257.610	6259398.6	14.816	mg/L	0.1544	14.816	mg/L	0.1544	1.04%
Ni 231.604	1184.3	0.0126	mg/L	0.00017	0.0126	mg/L	0.00017	1.31%
Pb 220.353	72.8	0.0022	mg/L	0.00028	0.0022	mg/L	0.00028	12.88%
Sb 206.836	19.9	0.0057	mg/L	0.00091	0.0057	mg/L	0.00091	16.10%
Se 196.026	-43.0	-0.0024	mg/L	0.00070	-0.0024	mg/L	0.00070	28.42%
Tl 190.801	-329.3	-0.0263	mg/L	0.00050	-0.0263	mg/L	0.00050	1.88%
V 292.402	27.2	0.0004	mg/L	0.00002	0.0004	mg/L	0.00002	4.47%
Zn 206.200	26151.2	0.1857	mg/L	0.00015	0.1857	mg/L	0.00015	0.08%
Na 330.237	156520.2	52.053	mg/L	0.0631	52.053	mg/L	0.0631	0.12%
Cd 226.502	2210.4	0.0015	mg/L	0.00009	0.0015	mg/L	0.00009	5.88%
Ti 334.940	28442.9	0.0197	mg/L	0.01065	0.0197	mg/L	0.01065	54.19%
Ca 227.546	95346.6	100.10	mg/L	0.001	100.10	mg/L	0.001	0.00%

Sequence No.: 16 **Autosampler Location: .21**
Sample ID: A1912-02DDUP,4955 **Date Collected: 12/31/2002 10:08:28 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: A1912-02DDUP,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-647.1	0.0114	mg/L	0.00016	0.0114	mg/L	0.00016	1.42%
Al 308.215	11207.4	0.1697	mg/L	0.00579	0.1697	mg/L	0.00579	3.41%
As 188.979	-6.9	0.0060	mg/L	0.00131	0.0060	mg/L	0.00131	21.71%
Ba 233.527	12701.0	0.1063	mg/L	0.00007	0.1063	mg/L	0.00007	0.07%
Be 313.107	17826.1	0.0016	mg/L	0.00000	0.0016	mg/L	0.00000	0.12%
Co 228.616	536.2	0.0070	mg/L	0.00000	0.0070	mg/L	0.00000	0.04%
Cr 267.716	1569.3	0.0016	mg/L	0.00016	0.0016	mg/L	0.00016	10.25%
Cu 324.752	-2889.5	-0.0116	mg/L	0.00060	-0.0116	mg/L	0.00060	5.15%
Fe 273.955	5293386.0	80.452	mg/L	0.2466	80.452	mg/L	0.2466	0.31%
Mg 279.077	1039584.4	18.426	mg/L	0.2529	18.426	mg/L	0.2529	1.37%
Mn 257.610	6217723.1	14.718	mg/L	0.0144	14.718	mg/L	0.0144	0.10%
Ni 231.604	1158.7	0.0124	mg/L	0.00004	0.0124	mg/L	0.00004	0.29%

Pb 220.353	59.9	0.0017	mg/L	0.00003	0.0017	mg/L	0.00003	2.07%
Sb 206.836	17.6	0.0052	mg/L	0.00083	0.0052	mg/L	0.00083	15.83%
Se 196.026	-43.5	-0.0027	mg/L	0.00001	-0.0027	mg/L	0.00001	0.25%
Tl 190.801	-321.2	-0.0245	mg/L	0.00027	-0.0245	mg/L	0.00027	1.11%
V 292.402	8.9	0.0003	mg/L	0.00008	0.0003	mg/L	0.00008	22.80%
Zn 206.200	25745.4	0.1828	mg/L	0.00215	0.1828	mg/L	0.00215	1.18%
Na 330.237	153982.8	51.208	mg/L	0.8923	51.208	mg/L	0.8923	1.74%
Cd 226.502	2212.0	0.0015	mg/L	0.00016	0.0015	mg/L	0.00016	10.58%
Ti 334.940	18279.6	0.0129	mg/L	0.00018	0.0129	mg/L	0.00018	1.36%
Ca 227.546	93911.4	98.584	mg/L	1.9851	98.584	mg/L	1.9851	2.01%

Sequence No.: 17 **Autosampler Location: 22**
Sample ID: A1912-02DMS,4955 **Date Collected: 12/31/2002 10:12:40 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: A1912-02DMS,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	543279.2	1.1342	mg/L	0.00469	1.1342	mg/L	0.00469	0.41%
Al 308.215	619090.5	9.3758	mg/L	0.01358	9.3758	mg/L	0.01358	0.14%
As 188.979	1193.6	0.4832	mg/L	0.00537	0.4832	mg/L	0.00537	1.11%
Ba 233.527	1045642.2	9.1639	mg/L	0.00055	9.1639	mg/L	0.00055	0.01%
Be 313.107	2528626.0	0.2248	mg/L	0.00275	0.2248	mg/L	0.00275	1.22%
Co 228.616	146552.7	2.2108	mg/L	0.00782	2.2108	mg/L	0.00782	0.35%
Cr 267.716	414587.3	0.8875	mg/L	0.00089	0.8875	mg/L	0.00089	0.10%
Cu 324.752	770829.4	1.1414	mg/L	0.00050	1.1414	mg/L	0.00050	0.04%
Fe 273.955	5527891.0	84.016	mg/L	0.7875	84.016	mg/L	0.7875	0.94%
Mg 279.077	2285259.8	40.424	mg/L	0.0077	40.424	mg/L	0.0077	0.02%
Mn 257.610	7026261.9	16.631	mg/L	0.1810	16.631	mg/L	0.1810	1.09%
Ni 231.604	193476.5	2.2791	mg/L	0.01363	2.2791	mg/L	0.01363	0.60%
Pb 220.353	11961.3	0.4525	mg/L	0.00660	0.4525	mg/L	0.00660	1.46%
Sb 206.836	2671.4	0.4810	mg/L	0.00193	0.4810	mg/L	0.00193	0.40%
Se 196.026	1243.6	0.3765	mg/L	0.00149	0.3765	mg/L	0.00149	0.40%
Tl 190.801	1304.6	0.4312	mg/L	0.01072	0.4312	mg/L	0.01072	2.49%
V 292.402	1072895.0	2.2263	mg/L	0.00558	2.2263	mg/L	0.00558	0.25%
Zn 206.200	324401.6	2.3559	mg/L	0.00358	2.3559	mg/L	0.00358	0.15%
Na 330.237	234110.8	77.833	mg/L	0.3329	77.833	mg/L	0.3329	0.43%
Cd 226.502	107657.9	0.2233	mg/L	0.00011	0.2233	mg/L	0.00011	0.05%
Ti 334.940	18435.5	0.0130	mg/L	0.00009	0.0130	mg/L	0.00009	0.70%
Ca 227.546	118023.3	123.92	mg/L	0.120	123.92	mg/L	0.120	0.10%

Sequence No.: 18 **Autosampler Location: 3**
Sample ID: CCV0 **Date Collected: 12/31/2002 10:15:20 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCV0

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	599231.7	1.2372	mg/L	0.00588	1.2372	mg/L	0.00588	0.48%
Al 308.215	649400.1	9.8348	mg/L	0.08103	9.8348	mg/L	0.08103	0.82%
As 188.979	1330.0	0.5289	mg/L	0.00127	0.5289	mg/L	0.00127	0.24%
Ba 233.527	1214141.8	10.646	mg/L	0.0748	10.646	mg/L	0.0748	0.70%
Be 313.107	2843873.0	0.2528	mg/L	0.00055	0.2528	mg/L	0.00055	0.22%
Co 228.616	167395.1	2.5264	mg/L	0.01184	2.5264	mg/L	0.01184	0.47%
Cr 267.716	466087.3	0.9996	mg/L	0.00643	0.9996	mg/L	0.00643	0.64%
Cu 324.752	841937.4	1.2543	mg/L	0.01220	1.2543	mg/L	0.01220	0.97%
Fe 273.955	333658.1	5.0711	mg/L	0.03180	5.0711	mg/L	0.03180	0.63%
Mg 279.077	1426882.2	25.200	mg/L	0.1435	25.200	mg/L	0.1435	0.57%
Mn 257.610	1090851.4	2.5817	mg/L	0.02267	2.5817	mg/L	0.02267	0.88%
Ni 231.604	219343.9	2.5853	mg/L	0.02564	2.5853	mg/L	0.02564	0.99%
Pb 220.353	13634.9	0.5163	mg/L	0.00058	0.5163	mg/L	0.00058	0.11%
Sb 206.836	2947.5	0.5284	mg/L	0.00174	0.5284	mg/L	0.00174	0.33%
Se 196.026	1709.6	0.5038	mg/L	0.00027	0.5038	mg/L	0.00027	0.05%

Tl 190.801	1835.1	0.5163	mg/L	0.00145	0.5163	mg/L	0.00145	0.28%
V 292.402	1198026.7	2.4856	mg/L	0.01983	2.4856	mg/L	0.01983	0.80%
Zn 206.200	350154.2	2.5477	mg/L	0.01087	2.5477	mg/L	0.01087	0.43%
Na 330.237	72129.0	23.963	mg/L	0.1672	23.963	mg/L	0.1672	0.70%
Cd 226.502	121692.0	0.2559	mg/L	0.00131	0.2559	mg/L	0.00131	0.51%
Ti 334.940	2277.1	0.0015	mg/L	0.00000	0.0015	mg/L	0.00000	0.08%
Ca 227.546	23109.3	24.253	mg/L	0.0198	24.253	mg/L	0.0198	0.08%

Sequence No.: 19 **Autosampler Location: 4**
Sample ID: CCB0 **Date Collected: 12/31/2002 10:19:31 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: **Data Type: Original**

Mean Data: CCB0

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-364.7	-0.0008	mg/L	0.00018	-0.0008	mg/L	0.00018	24.19%
Al 308.215	715.5	0.0108	mg/L	0.00042	0.0108	mg/L	0.00042	3.85%
As 188.979	3.7	0.0014	mg/L	0.00015	0.0014	mg/L	0.00015	10.44%
Ba 233.527	133.8	0.0012	mg/L	0.00016	0.0012	mg/L	0.00016	13.70%
Be 313.107	1659.7	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	15.27%
Co 228.616	19.8	0.0003	mg/L	0.00004	0.0003	mg/L	0.00004	13.49%
Cr 267.716	51.2	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	5.68%
Cu 324.752	2040.0	0.0030	mg/L	0.00079	0.0030	mg/L	0.00079	25.88%
Fe 273.955	155.5	0.0024	mg/L	0.00024	0.0024	mg/L	0.00024	9.95%
Mg 279.077	197.6	0.0035	mg/L	0.00277	0.0035	mg/L	0.00277	79.25%
Mn 257.610	338.5	0.0008	mg/L	0.00006	0.0008	mg/L	0.00006	7.36%
Ni 231.604	-17.6	-0.0002	mg/L	0.00042	-0.0002	mg/L	0.00042	204.54%
Pb 220.353	-19.2	-0.0007	mg/L	0.00015	-0.0007	mg/L	0.00015	20.36%
Sb 206.836	0.3	0.0001	mg/L	0.00038	0.0001	mg/L	0.00038	666.31%
Se 196.026	-4.3	-0.0013	mg/L	0.00049	-0.0013	mg/L	0.00049	38.29%
Tl 190.801	3.6	0.0010	mg/L	0.00080	0.0010	mg/L	0.00080	78.38%
V 292.402	58.1	0.0001	mg/L	0.00010	0.0001	mg/L	0.00010	83.64%
Zn 206.200	167.2	0.0012	mg/L	0.00039	0.0012	mg/L	0.00039	32.12%
Na 330.237	-193.4	-0.0644	mg/L	0.01194	-0.0644	mg/L	0.01194	18.53%
Cd 226.502	-18.9	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	67.37%
Ti 334.940	-138.7	-0.0001	mg/L	0.00004	-0.0001	mg/L	0.00004	40.67%
Ca 227.546	25.7	0.0271	mg/L	0.00147	0.0271	mg/L	0.00147	5.43%

Sequence No.: 20 **Autosampler Location: 23**
Sample ID: MB-4920,4955 **Date Collected: 12/31/2002 10:23:33 AM**
Analyst:
Sample Wt: **Sample Prep Volume:**
Dilution: (10) [illegible] **Data Type: Original**

Mean Data: MB-4920,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	4062.4	0.0084	mg/L	0.00056	0.0084	mg/L	0.00056	6.69%
Al 308.215	486.7	0.0074	mg/L	0.00088	0.0074	mg/L	0.00088	11.91%
As 188.979	5.8	0.0023	mg/L	0.00037	0.0023	mg/L	0.00037	16.39%
Ba 233.527	3520.6	0.0309	mg/L	0.00029	0.0309	mg/L	0.00029	0.94%
Be 313.107	1311.6	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	8.07%
Co 228.616	38.9	0.0006	mg/L	0.00002	0.0006	mg/L	0.00002	4.23%
Cr 267.716	90.8	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	7.00%
Cu 324.752	3837.8	0.0057	mg/L	0.00072	0.0057	mg/L	0.00072	12.59%
Fe 273.955	1195.5	0.0182	mg/L	0.00022	0.0182	mg/L	0.00022	1.19%
Mg 279.077	1611.7	0.0285	mg/L	0.00093	0.0285	mg/L	0.00093	3.28%
Mn 257.610	1564.3	0.0037	mg/L	0.00002	0.0037	mg/L	0.00002	0.50%
Ni 231.604	75.3	0.0009	mg/L	0.00002	0.0009	mg/L	0.00002	2.13%
Pb 220.353	-3.9	-0.0001	mg/L	0.00006	-0.0001	mg/L	0.00006	39.99%
Sb 206.836	11.8	0.0021	mg/L	0.00047	0.0021	mg/L	0.00047	22.30%
Se 196.026	4.0	0.0012	mg/L	0.00133	0.0012	mg/L	0.00133	111.18%
Tl 190.801	0.5	0.0002	mg/L	0.00020	0.0002	mg/L	0.00020	128.27%
V 292.402	-15.4	0.0000	mg/L	0.00021	0.0000	mg/L	0.00021	675.86%
Zn 206.200	2748.0	0.0200	mg/L	0.00047	0.0200	mg/L	0.00047	2.34%

Na 330.237	2578.5	0.8578	mg/L	0.07886	0.8578	mg/L	0.07886	9.19%
Cd 226.502	-33.4	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	14.55%
Ti 334.940	321.3	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	15.71%
Ca 227.546	396.2	0.4186	mg/L	0.00486	0.4186	mg/L	0.00486	1.16%

Sequence No.: 21 SPLP
Sample ID: A1905-01D,4955
Analyst:
Sample Wt: 1.04g
Dilution: 10 mL
Autosampler Location: 24
Date Collected: 12/31/2002 10:27:38 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-01D,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	4009.2	0.0073	mg/L	0.00006	0.0073	mg/L	0.00006	0.76%
Al 308.215	168725.7	2.5553	mg/L	0.02078	2.5553	mg/L	0.02078	0.81%
As 188.979	5.4	0.0022	mg/L	0.00055	0.0022	mg/L	0.00055	25.08%
Ba 233.527	5233.6	0.0457	mg/L	0.00009	0.0457	mg/L	0.00009	0.19%
Be 313.107	1035.2	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	9.12%
Co 228.616	71.5	0.0011	mg/L	0.00012	0.0011	mg/L	0.00012	11.51%
Cr 267.716	3898.5	0.0084	mg/L	0.00005	0.0084	mg/L	0.00005	0.63%
Cu 324.752	3679.7	0.0054	mg/L	0.00035	0.0054	mg/L	0.00035	6.54%
Fe 273.955	8282.1	0.1259	mg/L	0.00082	0.1259	mg/L	0.00082	0.65%
Mg 279.077	7382.2	0.1303	mg/L	0.00090	0.1303	mg/L	0.00090	0.69%
Mn 257.610	3454.0	0.0082	mg/L	0.00010	0.0082	mg/L	0.00010	1.21%
Ni 231.604	422.8	0.0050	mg/L	0.00000	0.0050	mg/L	0.00000	0.02%
Pb 220.353	-39.0	-0.0012	mg/L	0.00010	-0.0012	mg/L	0.00010	8.26%
Sb 206.836	16.2	0.0031	mg/L	0.00048	0.0031	mg/L	0.00048	15.60%
Se 196.026	4.6	0.0014	mg/L	0.00052	0.0014	mg/L	0.00052	37.29%
Tl 190.801	-2.4	-0.0009	mg/L	0.00099	-0.0009	mg/L	0.00099	114.78%
V 292.402	5009.3	0.0104	mg/L	0.00033	0.0104	mg/L	0.00033	3.19%
Zn 206.200	1335.4	0.0095	mg/L	0.00019	0.0095	mg/L	0.00019	1.98%
Na 330.237	153039.5	50.885	mg/L	0.6275	50.885	mg/L	0.6275	1.23%
Cd 226.502	-29.3	-0.0001	mg/L	0.00000	-0.0001	mg/L	0.00000	2.90%
Ti 334.940	11794.1	0.0082	mg/L	0.00005	0.0082	mg/L	0.00005	0.64%
Ca 227.546	45052.4	47.628	mg/L	0.2098	47.628	mg/L	0.2098	0.44%

Sequence No.: 22 SPLP
Sample ID: A1905-02D,4955
Analyst:
Sample Wt: 1.08g
Dilution: 10 mL
Autosampler Location: 25
Date Collected: 12/31/2002 10:31:37 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-02D,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	4557.7	0.0060	mg/L	0.00023	0.0060	mg/L	0.00023	3.82%
Al 308.215	205824.2	3.1171	mg/L	0.02511	3.1171	mg/L	0.02511	0.81%
As 188.979	6.6	0.0027	mg/L	0.00043	0.0027	mg/L	0.00043	16.28%
Ba 233.527	11262.9	0.0982	mg/L	0.00028	0.0982	mg/L	0.00028	0.28%
Be 313.107	928.6	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	6.19%
Co 228.616	49.7	0.0007	mg/L	0.00008	0.0007	mg/L	0.00008	10.34%
Cr 267.716	2142.2	0.0046	mg/L	0.00002	0.0046	mg/L	0.00002	0.37%
Cu 324.752	2139.8	0.0027	mg/L	0.00003	0.0027	mg/L	0.00003	1.04%
Fe 273.955	14209.5	0.2160	mg/L	0.00028	0.2160	mg/L	0.00028	0.13%
Mg 279.077	10058.8	0.1776	mg/L	0.00016	0.1776	mg/L	0.00016	0.09%
Mn 257.610	5736.3	0.0136	mg/L	0.00003	0.0136	mg/L	0.00003	0.22%
Ni 231.604	95.9	0.0011	mg/L	0.00013	0.0011	mg/L	0.00013	11.37%
Pb 220.353	-63.5	-0.0019	mg/L	0.00010	-0.0019	mg/L	0.00010	5.29%
Sb 206.836	5.0	0.0014	mg/L	0.00029	0.0014	mg/L	0.00029	20.59%
Se 196.026	5.6	0.0017	mg/L	0.00048	0.0017	mg/L	0.00048	27.64%
Tl 190.801	-1.9	-0.0011	mg/L	0.00020	-0.0011	mg/L	0.00020	18.96%
V 292.402	464.6	0.0010	mg/L	0.00006	0.0010	mg/L	0.00006	5.95%
Zn 206.200	1617.9	0.0111	mg/L	0.00009	0.0111	mg/L	0.00009	0.77%
Na 330.237	47502.7	15.644	mg/L	0.0129	15.644	mg/L	0.0129	0.08%
Cd 226.502	-37.8	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	14.00%
Ti 334.940	22331.4	0.0160	mg/L	0.00019	0.0160	mg/L	0.00019	1.21%

Ca 227.546	149577.3	158.13	mg/L	0.911	158.13	mg/L	0.911	0.58%

Sequence No.: 23 SPLP
Sample ID: A1905-03D,4955
Analyst:
Sample Wt: 1.03g
Dilution: 10 mL
Autosampler Location: 26
Date Collected: 12/31/2002 10:35:36 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-03D,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	4915.1	0.0049	mg/L	0.00004	0.0049	mg/L	0.00004	0.90%
Al 308.215	161851.8	2.4512	mg/L	0.01033	2.4512	mg/L	0.01033	0.42%
As 188.979	3.5	0.0015	mg/L	0.00030	0.0015	mg/L	0.00030	20.55%
Ba 233.527	10865.9	0.0945	mg/L	0.00040	0.0945	mg/L	0.00040	0.43%
Be 313.107	895.9	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	4.42%
Co 228.616	43.5	0.0006	mg/L	0.00006	0.0006	mg/L	0.00006	9.89%
Cr 267.716	2835.2	0.0061	mg/L	0.00005	0.0061	mg/L	0.00005	0.89%
Cu 324.752	1791.3	0.0020	mg/L	0.00025	0.0020	mg/L	0.00025	12.47%
Fe 273.955	9508.0	0.1445	mg/L	0.00044	0.1445	mg/L	0.00044	0.30%
Mg 279.077	6507.0	0.1149	mg/L	0.00003	0.1149	mg/L	0.00003	0.02%
Mn 257.610	3426.6	0.0081	mg/L	0.00001	0.0081	mg/L	0.00001	0.11%
Ni 231.604	77.5	0.0009	mg/L	0.00005	0.0009	mg/L	0.00005	5.22%
Pb 220.353	-74.5	-0.0022	mg/L	0.00010	-0.0022	mg/L	0.00010	4.58%
Sb 206.836	4.2	0.0015	mg/L	0.00024	0.0015	mg/L	0.00024	15.94%
Se 196.026	10.3	0.0031	mg/L	0.00084	0.0031	mg/L	0.00084	27.39%
Tl 190.801	-2.4	-0.0015	mg/L	0.00020	-0.0015	mg/L	0.00020	12.99%
V 292.402	45.6	0.0001	mg/L	0.00009	0.0001	mg/L	0.00009	91.54%
Zn 206.200	1817.9	0.0123	mg/L	0.00011	0.0123	mg/L	0.00011	0.86%
Na 330.237	50377.5	16.509	mg/L	0.0272	16.509	mg/L	0.0272	0.16%
Cd 226.502	-41.5	-0.0001	mg/L	0.00000	-0.0001	mg/L	0.00000	5.11%
Ti 334.940	19050.9	0.0144	mg/L	0.00010	0.0144	mg/L	0.00010	0.67%
Ca 227.546	229725.1	242.86	mg/L	0.486	242.86	mg/L	0.486	0.20%

Sequence No.: 24
Sample ID: A1905-10A,4955
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 27
Date Collected: 12/31/2002 10:39:35 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-10A,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	3670.8	0.0076	mg/L	0.00031	0.0076	mg/L	0.00031	4.07%
Al 308.215	703.8	0.0107	mg/L	0.00139	0.0107	mg/L	0.00139	13.03%
As 188.979	2.4	0.0010	mg/L	0.00002	0.0010	mg/L	0.00002	1.84%
Ba 233.527	1324.9	0.0116	mg/L	0.00002	0.0116	mg/L	0.00002	0.17%
Be 313.107	1050.3	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	16.99%
Co 228.616	28.4	0.0004	mg/L	0.00003	0.0004	mg/L	0.00003	7.80%
Cr 267.716	243.0	0.0005	mg/L	0.00008	0.0005	mg/L	0.00008	15.81%
Cu 324.752	1241.1	0.0019	mg/L	0.00016	0.0019	mg/L	0.00016	8.36%
Fe 273.955	8201.9	0.1247	mg/L	0.00220	0.1247	mg/L	0.00220	1.76%
Mg 279.077	446.4	0.0079	mg/L	0.00377	0.0079	mg/L	0.00377	47.61%
Mn 257.610	2559.9	0.0061	mg/L	0.00002	0.0061	mg/L	0.00002	0.41%
Ni 231.604	14.9	0.0002	mg/L	0.00017	0.0002	mg/L	0.00017	96.26%
Pb 220.353	-13.2	-0.0005	mg/L	0.00004	-0.0005	mg/L	0.00004	9.00%
Sb 206.836	2.8	0.0005	mg/L	0.00010	0.0005	mg/L	0.00010	19.18%
Se 196.026	1.1	0.0003	mg/L	0.00002	0.0003	mg/L	0.00002	4.82%
Tl 190.801	-1.5	-0.0004	mg/L	0.00004	-0.0004	mg/L	0.00004	10.05%
V 292.402	-2.9	0.0000	mg/L	0.00009	0.0000	mg/L	0.00009	>999.9%
Zn 206.200	392.1	0.0029	mg/L	0.00012	0.0029	mg/L	0.00012	4.26%
Na 330.237	382.9	0.1277	mg/L	0.08708	0.1277	mg/L	0.08708	68.17%
Cd 226.502	-32.2	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	17.45%
Ti 334.940	1202.6	0.0008	mg/L	0.00003	0.0008	mg/L	0.00003	3.17%
Ca 227.546	65.6	0.0682	mg/L	0.00392	0.0682	mg/L	0.00392	5.75%

Sequence No.: 25
Sample ID: A1905-14B,4955
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 28
Date Collected: 12/31/2002 10:43:34 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-14B,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	3859.6	0.0078	mg/L	0.00001	0.0078	mg/L	0.00001	0.07%
Al 308.215	2030.4	0.0307	mg/L	0.00098	0.0307	mg/L	0.00098	3.19%
As 188.979	2.7	0.0011	mg/L	0.00132	0.0011	mg/L	0.00132	121.09%
Ba 233.527	11557.8	0.1013	mg/L	0.00002	0.1013	mg/L	0.00002	0.02%
Be 313.107	698.3	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	18.88%
Co 228.616	30.1	0.0005	mg/L	0.00003	0.0005	mg/L	0.00003	6.18%
Cr 267.716	417.6	0.0009	mg/L	0.00000	0.0009	mg/L	0.00000	0.53%
Cu 324.752	934.4	0.0014	mg/L	0.00011	0.0014	mg/L	0.00011	8.33%
Fe 273.955	5571.4	0.0847	mg/L	0.00001	0.0847	mg/L	0.00001	0.02%
Mg 279.077	35958.6	0.6348	mg/L	0.00087	0.6348	mg/L	0.00087	0.14%
Mn 257.610	2347.6	0.0055	mg/L	0.00001	0.0055	mg/L	0.00001	0.11%
Ni 231.604	25.4	0.0003	mg/L	0.00013	0.0003	mg/L	0.00013	42.28%
Pb 220.353	-19.1	-0.0007	mg/L	0.00019	-0.0007	mg/L	0.00019	27.28%
Sb 206.836	4.6	0.0009	mg/L	0.00013	0.0009	mg/L	0.00013	15.39%
Se 196.026	3.1	0.0009	mg/L	0.00033	0.0009	mg/L	0.00033	35.73%
Tl 190.801	-0.9	-0.0003	mg/L	0.00099	-0.0003	mg/L	0.00099	395.85%
V 292.402	364.3	0.0008	mg/L	0.00011	0.0008	mg/L	0.00011	14.33%
Zn 206.200	705.8	0.0051	mg/L	0.00011	0.0051	mg/L	0.00011	2.14%
Na 330.237	20811.5	6.9159	mg/L	0.12612	6.9159	mg/L	0.12612	1.82%
Cd 226.502	-27.4	-0.0001	mg/L	0.00000	-0.0001	mg/L	0.00000	3.98%
Ti 334.940	903.6	0.0007	mg/L	0.00004	0.0007	mg/L	0.00004	6.01%
Ca 227.546	9564.4	10.111	mg/L	0.0234	10.111	mg/L	0.0234	0.23%

Sequence No.: 26
Sample ID: ICSA1
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 5
Date Collected: 12/31/2002 10:47:35 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSA1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-11392.7	-0.0028	mg/L	0.00017	-0.0028	mg/L	0.00017	6.24%
Al 308.215	31418299.5	475.81	mg/L	0.905	475.81	mg/L	0.905	0.19%
As 188.979	-24.9	0.0099	mg/L	0.00301	0.0099	mg/L	0.00301	30.41%
Ba 233.527	1311.9	0.0025	mg/L	0.00053	0.0025	mg/L	0.00053	20.84%
Be 313.107	326.1	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	7.08%
Co 228.616	-39.0	-0.0015	mg/L	0.00002	-0.0015	mg/L	0.00002	1.65%
Cr 267.716	-757.2	0.0005	mg/L	0.00000	0.0005	mg/L	0.00000	0.03%
Cu 324.752	-10810.4	0.0057	mg/L	0.00007	0.0057	mg/L	0.00007	1.26%
Fe 273.955	11104924.3	168.78	mg/L	0.490	168.78	mg/L	0.490	0.29%
Mg 279.077	26453812.2	466.95	mg/L	1.561	466.95	mg/L	1.561	0.33%
Mn 257.610	-1409.3	-0.0046	mg/L	0.00023	-0.0046	mg/L	0.00023	5.01%
Ni 231.604	-8.2	-0.0001	mg/L	0.00017	-0.0001	mg/L	0.00017	178.49%
Pb 220.353	-902.7	0.0029	mg/L	0.00196	0.0029	mg/L	0.00196	67.12%
Sb 206.836	115.0	0.0304	mg/L	0.00259	0.0304	mg/L	0.00259	8.53%
Se 196.026	-137.4	0.0086	mg/L	0.01476	0.0086	mg/L	0.01476	172.21%
Tl 190.801	8.7	-0.0002	mg/L	0.00397	-0.0002	mg/L	0.00397	>999.9%
V 292.402	-275.6	-0.0020	mg/L	0.00008	-0.0020	mg/L	0.00008	3.84%
Zn 206.200	2611.4	-0.0051	mg/L	0.00023	-0.0051	mg/L	0.00023	4.55%
Na 330.237	1199.4	0.1694	mg/L	0.01082	0.1694	mg/L	0.01082	6.38%
Cd 226.502	4981.0	0.0039	mg/L	0.00033	0.0039	mg/L	0.00033	8.48%
Ti 334.940	9339.2	0.0097	mg/L	0.00010	0.0097	mg/L	0.00010	1.05%
Ca 227.546	462418.9	487.62	mg/L	0.878	487.62	mg/L	0.878	0.18%

Sequence No.: 27
Sample ID: ICSAB1
Analyst:
Autosampler Location: 6
Date Collected: 12/31/2002 10:50:14 AM

Sample Wt:
Dilution:
Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	81196.2	0.1872	mg/L	0.00114	0.1872	mg/L	0.00114	0.61%
Al 308.215	29895175.4	452.75	mg/L	0.934	452.75	mg/L	0.934	0.21%
As 188.979	215.3	0.1069	mg/L	0.00206	0.1069	mg/L	0.00206	1.92%
Ba 233.527	56056.4	0.4839	mg/L	0.00111	0.4839	mg/L	0.00111	0.23%
Be 313.107	5227913.3	0.4647	mg/L	0.00097	0.4647	mg/L	0.00097	0.21%
Co 228.616	27710.4	0.4173	mg/L	0.00193	0.4173	mg/L	0.00193	0.46%
Cr 267.716	207576.9	0.4472	mg/L	0.00205	0.4472	mg/L	0.00205	0.46%
Cu 324.752	313639.0	0.4884	mg/L	0.00336	0.4884	mg/L	0.00336	0.69%
Fe 273.955	10548538.9	160.32	mg/L	0.302	160.32	mg/L	0.302	0.19%
Mg 279.077	25015671.0	441.57	mg/L	0.737	441.57	mg/L	0.737	0.17%
Mn 257.610	199322.1	0.4706	mg/L	0.00063	0.4706	mg/L	0.00063	0.13%
Ni 231.604	74182.1	0.8744	mg/L	0.00057	0.8744	mg/L	0.00057	0.06%
Pb 220.353	10825.0	0.4444	mg/L	0.00186	0.4444	mg/L	0.00186	0.42%
Sb 206.836	3184.0	0.5767	mg/L	0.00926	0.5767	mg/L	0.00926	1.61%
Se 196.026	1526.9	0.4973	mg/L	0.00556	0.4973	mg/L	0.00556	1.12%
Tl 190.801	295.5	0.0806	mg/L	0.01212	0.0806	mg/L	0.01212	15.04%
V 292.402	219941.8	0.4555	mg/L	0.00134	0.4555	mg/L	0.00134	0.29%
Zn 206.200	118418.2	0.8395	mg/L	0.00280	0.8395	mg/L	0.00280	0.33%
Na 330.237	146366.8	48.485	mg/L	0.3087	48.485	mg/L	0.3087	0.64%
Cd 226.502	418348.1	0.8724	mg/L	0.00324	0.8724	mg/L	0.00324	0.37%
Ti 334.940	9111.6	0.0093	mg/L	0.00009	0.0093	mg/L	0.00009	1.02%
Ca 227.546	443070.8	467.19	mg/L	2.758	467.19	mg/L	2.758	0.59%

Sequence No.: 28
Sample ID: CCV1
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 12/31/2002 10:52:58 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	593176.1	1.2247	mg/L	0.00981	1.2247	mg/L	0.00981	0.80%
Al 308.215	654631.4	9.9141	mg/L	0.07297	9.9141	mg/L	0.07297	0.74%
As 188.979	1354.8	0.5386	mg/L	0.00163	0.5386	mg/L	0.00163	0.30%
Ba 233.527	1228791.3	10.775	mg/L	0.0379	10.775	mg/L	0.0379	0.35%
Be 313.107	2809814.9	0.2498	mg/L	0.00178	0.2498	mg/L	0.00178	0.71%
Co 228.616	165207.6	2.4934	mg/L	0.01426	2.4934	mg/L	0.01426	0.57%
Cr 267.716	466808.2	1.0012	mg/L	0.00459	1.0012	mg/L	0.00459	0.46%
Cu 324.752	844926.5	1.2586	mg/L	0.00792	1.2586	mg/L	0.00792	0.63%
Fe 273.955	335499.8	5.0991	mg/L	0.02754	5.0991	mg/L	0.02754	0.54%
Mg 279.077	1431357.3	25.279	mg/L	0.0782	25.279	mg/L	0.0782	0.31%
Mn 257.610	1120000.1	2.6507	mg/L	0.00529	2.6507	mg/L	0.00529	0.20%
Ni 231.604	224401.5	2.6449	mg/L	0.00198	2.6449	mg/L	0.00198	0.08%
Pb 220.353	13722.9	0.5197	mg/L	0.00050	0.5197	mg/L	0.00050	0.10%
Sb 206.836	2894.1	0.5189	mg/L	0.00118	0.5189	mg/L	0.00118	0.23%
Se 196.026	1692.5	0.4987	mg/L	0.00070	0.4987	mg/L	0.00070	0.14%
Tl 190.801	1832.8	0.5159	mg/L	0.00029	0.5159	mg/L	0.00029	0.06%
V 292.402	1209238.9	2.5088	mg/L	0.01226	2.5088	mg/L	0.01226	0.49%
Zn 206.200	349159.1	2.5405	mg/L	0.00746	2.5405	mg/L	0.00746	0.29%
Na 330.237	72077.2	23.945	mg/L	0.0931	23.945	mg/L	0.0931	0.39%
Cd 226.502	121490.4	0.2555	mg/L	0.00131	0.2555	mg/L	0.00131	0.51%
Ti 334.940	2208.8	0.0015	mg/L	0.00002	0.0015	mg/L	0.00002	1.11%
Ca 227.546	23042.3	24.180	mg/L	0.0037	24.180	mg/L	0.0037	0.02%

Sequence No.: 29
Sample ID: CCB1
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 12/31/2002 10:57:08 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-429.3	-0.0009	mg/L	0.00024	-0.0009	mg/L	0.00024	26.86%
Al 308.215	991.6	0.0150	mg/L	0.00048	0.0150	mg/L	0.00048	3.16%
As 188.979	3.9	0.0015	mg/L	0.00051	0.0015	mg/L	0.00051	33.96%
Ba 233.527	123.6	0.0011	mg/L	0.00017	0.0011	mg/L	0.00017	15.61%
Be 313.107	954.3	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	23.54%
Co 228.616	13.3	0.0002	mg/L	0.00008	0.0002	mg/L	0.00008	41.36%
Cr 267.716	49.7	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	19.56%
Cu 324.752	1382.5	0.0021	mg/L	0.00045	0.0021	mg/L	0.00045	21.57%
Fe 273.955	172.2	0.0026	mg/L	0.00031	0.0026	mg/L	0.00031	11.78%
Mg 279.077	50.2	0.0009	mg/L	0.00135	0.0009	mg/L	0.00135	152.42%
Mn 257.610	151.8	0.0004	mg/L	0.00002	0.0004	mg/L	0.00002	5.20%
Ni 231.604	-1.9	0.0000	mg/L	0.00017	0.0000	mg/L	0.00017	735.06%
Pb 220.353	-18.4	-0.0007	mg/L	0.00019	-0.0007	mg/L	0.00019	26.83%
Sb 206.836	3.8	0.0007	mg/L	0.00067	0.0007	mg/L	0.00067	98.75%
Se 196.026	-3.1	-0.0009	mg/L	0.00143	-0.0009	mg/L	0.00143	154.94%
Tl 190.801	1.5	0.0004	mg/L	0.00060	0.0004	mg/L	0.00060	141.29%
V 292.402	77.0	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	30.03%
Zn 206.200	75.5	0.0003	mg/L	0.00031	0.0005	mg/L	0.00031	56.26%
Na 330.237	312.1	0.1039	mg/L	0.05947	0.1038	mg/L	0.05947	57.26%
Cd 226.502	-28.6	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	26.63%
Ti 334.940	-104.2	-0.0001	mg/L	0.00005	-0.0001	mg/L	0.00005	77.52%
Ca 227.546	6.3	0.0066	mg/L	0.00696	0.0066	mg/L	0.00696	104.90%

Sequence No.: 30 Autosampler Location: 29
Sample ID: A1905-16B,4955 Date Collected: 12/31/2002 11:01:10 AM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: A1905-16B,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-2961.2	0.0054	mg/L	0.00014	0.0054	mg/L	0.00014	2.61%
Al 308.215	23369761.5	353.92	mg/L	2.289	353.92	mg/L	2.289	0.65%
As 188.979	315.5	0.1793	mg/L	0.00124	0.1793	mg/L	0.00124	0.69%
Ba 233.527	151938.4	1.3173	mg/L	0.00326	1.3173	mg/L	0.00326	0.25%
Be 313.107	33711.0	0.0200	mg/L	0.00004	0.0200	mg/L	0.00004	0.20%
Co 228.616	11142.0	0.1414	mg/L	0.00104	0.1414	mg/L	0.00104	0.73%
Cr 267.716	290269.7	0.6265	mg/L	0.00180	0.6265	mg/L	0.00180	0.29%
Cu 324.752	635903.6	0.9811	mg/L	0.00155	0.9811	mg/L	0.00155	0.16%
Fe 273.955	23907347.1	363.36	mg/L	1.054	363.36	mg/L	1.054	0.29%
Mg 279.077	8441615.9	149.03	mg/L	0.539	149.03	mg/L	0.539	0.36%
Mn 257.610	1804425.7	4.2771	mg/L	0.00158	4.2771	mg/L	0.00158	0.04%
Ni 231.604	38749.9	0.4516	mg/L	0.00410	0.4516	mg/L	0.00410	0.91%
Pb 220.353	7268.3	0.3160	mg/L	0.00424	0.3160	mg/L	0.00424	1.34%
Sb 206.836	59.5	0.0419	mg/L	0.00413	0.0419	mg/L	0.00413	9.86%
Se 196.026	-423.6	-0.0301	mg/L	0.00042	-0.0301	mg/L	0.00042	1.38%
Tl 190.801	-91.8	0.0203	mg/L	0.00090	0.0203	mg/L	0.00090	4.41%
V 292.402	501883.7	1.0295	mg/L	0.00280	1.0295	mg/L	0.00280	0.27%
Zn 206.200	127673.7	0.9038	mg/L	0.00177	0.9038	mg/L	0.00177	0.20%
Na 330.237	1848440.6	620.00	mg/L	0.495	620.00	mg/L	0.495	0.08%
Cd 226.502	12842.3	0.0129	mg/L	0.00027	0.0129	mg/L	0.00027	2.10%
Ti 334.940	24704094.9	16.464	mg/L	0.0469	16.464	mg/L	0.0469	0.28%
Ca 227.546	54156.0	54.209	mg/L	0.9614	54.209	mg/L	0.9614	1.77%

Sequence No.: 31 Autosampler Location: 30
Sample ID: A1905-16C,4955 Date Collected: 12/31/2002 11:03:59 AM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: A1905-16C,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Ag 328.068	2791.3	0.0064	mg/L	0.00016	0.0064	mg/L	0.00016	2.57%
Al 308.215	9482.4	0.1436	mg/L	0.01523	0.1436	mg/L	0.01523	10.61%
As 188.979	15.8	0.0069	mg/L	0.00045	0.0069	mg/L	0.00045	6.48%
Ba 233.527	3983.6	0.0345	mg/L	0.00008	0.0345	mg/L	0.00008	0.24%
Be 313.107	1223.5	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	0.74%
Co 228.616	268.0	0.0040	mg/L	0.00004	0.0040	mg/L	0.00004	0.94%
Cr 267.716	1646.4	0.0035	mg/L	0.00004	0.0035	mg/L	0.00004	1.28%
Cu 324.752	1205.6	0.0017	mg/L	0.00033	0.0017	mg/L	0.00033	19.56%
Fe 273.955	422718.6	6.4247	mg/L	0.03322	6.4247	mg/L	0.03322	0.52%
Mg 279.077	1962325.1	34.642	mg/L	0.2822	34.642	mg/L	0.2822	0.81%
Mn 257.610	317198.4	0.7503	mg/L	0.00525	0.7503	mg/L	0.00525	0.70%
Ni 231.604	276.3	0.0032	mg/L	0.00009	0.0032	mg/L	0.00009	2.81%
Pb 220.353	-24.8	-0.0009	mg/L	0.00006	-0.0009	mg/L	0.00006	6.52%
Sb 206.836	7.9	0.0016	mg/L	0.00071	0.0016	mg/L	0.00071	44.28%
Se 196.026	-9.4	-0.0015	mg/L	0.00088	-0.0015	mg/L	0.00088	58.84%
Tl 190.801	-23.3	-0.0029	mg/L	0.00032	-0.0029	mg/L	0.00032	11.24%
V 292.402	3989.8	0.0083	mg/L	0.00004	0.0083	mg/L	0.00004	0.48%
Zn 206.200	1620.9	0.0100	mg/L	0.00025	0.0100	mg/L	0.00025	2.55%
Na 330.237	1838962.8	612.02	mg/L	6.010	612.02	mg/L	6.010	0.98%
Cd 226.502	150.7	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	1.23%
Ti 334.940	19122.7	0.0069	mg/L	0.00121	0.0069	mg/L	0.00121	17.55%
Ca 227.546	23349.0	24.628	mg/L	0.0380	24.628	mg/L	0.0380	0.15%

Sequence No.: 32 Autosampler Location: 31
Sample ID: A1905-18B,4955 Date Collected: 12/31/2002 11:08:02 AM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: A1905-18B,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	2224.3	0.0053	mg/L	0.00004	0.0053	mg/L	0.00004	0.77%
Al 308.215	7147.4	0.1082	mg/L	0.00004	0.1082	mg/L	0.00004	0.03%
As 188.979	8.3	0.0043	mg/L	0.00078	0.0043	mg/L	0.00078	17.97%
Ba 233.527	3361.5	0.0290	mg/L	0.00013	0.0290	mg/L	0.00013	0.46%
Be 313.107	1013.3	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	3.58%
Co 228.616	124.4	0.0018	mg/L	0.00012	0.0018	mg/L	0.00012	6.82%
Cr 267.716	727.6	0.0014	mg/L	0.00003	0.0014	mg/L	0.00003	2.01%
Cu 324.752	186.4	-0.0004	mg/L	0.00023	-0.0004	mg/L	0.00023	64.44%
Fe 273.955	422551.8	6.4222	mg/L	0.03767	6.4222	mg/L	0.03767	0.59%
Mg 279.077	2161633.1	38.162	mg/L	0.3044	38.162	mg/L	0.3044	0.80%
Mn 257.610	499750.3	1.1823	mg/L	0.01091	1.1823	mg/L	0.01091	0.92%
Ni 231.604	182.3	0.0020	mg/L	0.00005	0.0020	mg/L	0.00005	2.35%
Pb 220.353	-20.0	-0.0008	mg/L	0.00007	-0.0008	mg/L	0.00007	8.02%
Sb 206.836	10.4	0.0020	mg/L	0.00046	0.0020	mg/L	0.00046	23.27%
Se 196.026	-3.1	0.0000	mg/L	0.00091	0.0000	mg/L	0.00091	>999.9%
Tl 190.801	-30.6	-0.0030	mg/L	0.00134	-0.0030	mg/L	0.00134	44.44%
V 292.402	2100.0	0.0044	mg/L	0.00015	0.0044	mg/L	0.00015	3.39%
Zn 206.200	1025.1	0.0054	mg/L	0.00018	0.0054	mg/L	0.00018	3.24%
Na 330.237	1461408.3	486.36	mg/L	1.428	486.36	mg/L	1.428	0.29%
Cd 226.502	126.1	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	170.38%
Ti 334.940	7331.1	0.0051	mg/L	0.00005	0.0051	mg/L	0.00005	0.95%
Ca 227.546	22506.8	23.738	mg/L	0.0914	23.738	mg/L	0.0914	0.39%

Sequence No.: 33 Autosampler Location: 32
Sample ID: A1905-18C,4955 Date Collected: 12/31/2002 11:12:06 AM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: A1905-18C,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-10623.6	0.0081	mg/L	0.00013	0.0081	mg/L	0.00013	1.63%
Al 308.215	11431229.8	173.12	mg/L	0.611	173.12	mg/L	0.611	0.35%

As 188.979	48.4	0.0443	mg/L	0.00013	0.0443	mg/L	0.00013	0.30%
Ba 233.527	61790.3	0.5347	mg/L	0.00156	0.5347	mg/L	0.00156	0.29%
Be 313.107	-5681.3	0.0077	mg/L	0.00001	0.0077	mg/L	0.00001	0.12%
Co 228.616	6132.6	0.0798	mg/L	0.00027	0.0798	mg/L	0.00027	0.34%
Cr 267.716	117565.1	0.2537	mg/L	0.00173	0.2537	mg/L	0.00173	0.68%
Cu 324.752	263923.7	0.4067	mg/L	0.00195	0.4067	mg/L	0.00195	0.48%
Fe 273.955	108872294.9	165.47	mg/L	0.389	165.47	mg/L	0.389	0.23%
Mg 279.077	5397692.7	95.293	mg/L	0.4742	95.293	mg/L	0.4742	0.50%
Mn 257.610	1261830.3	2.9891	mg/L	0.01199	2.9891	mg/L	0.01199	0.40%
Ni 231.604	18304.7	0.2132	mg/L	0.00197	0.2132	mg/L	0.00197	0.92%
Pb 220.353	2676.6	0.1209	mg/L	0.00192	0.1209	mg/L	0.00192	1.59%
Sb 206.836	25.1	0.0188	mg/L	0.00572	0.0188	mg/L	0.00572	30.47%
Se 196.026	-153.6	-0.0029	mg/L	0.01250	-0.0029	mg/L	0.01250	430.15%
Tl 190.801	-54.2	0.0112	mg/L	0.00013	0.0112	mg/L	0.00013	1.17%
V 292.402	107320.9	0.3831	mg/L	0.00221	0.3831	mg/L	0.00221	0.58%
Zn 206.200	56784.7	0.3998	mg/L	0.00201	0.3998	mg/L	0.00201	0.50%
Na 330.237	1501561.7	503.04	mg/L	1.196	503.04	mg/L	1.196	0.40%
Cd 226.502	4978.5	0.0040	mg/L	0.00027	0.0040	mg/L	0.00027	6.79%
Ti 334.940	11934494.7	7.9538	mg/L	0.01130	7.9538	mg/L	0.01130	0.14%
Ca 227.546	34279.8	34.862	mg/L	0.5946	34.862	mg/L	0.5946	1.71%

Sequence No.: 34 Autosampler Location: 33
Sample ID: A1905-26A,4955 Date Collected: 12/31/2002 11:14:51 AM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: A1905-26A,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	2563.0	0.0053	mg/L	0.00030	0.0053	mg/L	0.00030	5.75%
Al 308.215	891.5	0.0135	mg/L	0.00527	0.0135	mg/L	0.00527	39.04%
As 188.979	3.2	0.0013	mg/L	0.00019	0.0013	mg/L	0.00019	15.18%
Ba 233.527	804.4	0.0070	mg/L	0.00006	0.0070	mg/L	0.00006	0.89%
Be 313.107	588.5	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	15.32%
Co 228.616	27.0	0.0004	mg/L	0.00006	0.0004	mg/L	0.00006	14.95%
Cr 267.716	274.0	0.0006	mg/L	0.00003	0.0006	mg/L	0.00003	5.45%
Cu 324.752	526.9	0.0008	mg/L	0.00017	0.0008	mg/L	0.00017	22.22%
Fe 273.955	1936.5	0.0294	mg/L	0.00229	0.0294	mg/L	0.00229	7.78%
Mg 279.077	213.3	0.0038	mg/L	0.00007	0.0038	mg/L	0.00007	1.82%
Mn 257.610	1234.6	0.0029	mg/L	0.00000	0.0029	mg/L	0.00000	0.02%
Ni 231.604	37.0	0.0004	mg/L	0.00058	0.0004	mg/L	0.00058	134.04%
Pb 220.353	-14.6	-0.0005	mg/L	0.00013	-0.0005	mg/L	0.00013	24.20%
Sb 206.836	4.6	0.0008	mg/L	0.00049	0.0008	mg/L	0.00049	60.32%
Se 196.026	-1.1	-0.0003	mg/L	0.00078	-0.0003	mg/L	0.00078	233.30%
Tl 190.801	-2.0	-0.0005	mg/L	0.00024	-0.0005	mg/L	0.00024	43.38%
V 292.402	-24.8	-0.0001	mg/L	0.00007	-0.0001	mg/L	0.00007	137.28%
Zn 206.200	339.6	0.0025	mg/L	0.00018	0.0025	mg/L	0.00018	7.34%
Na 330.237	565.6	0.1817	mg/L	0.12101	0.1817	mg/L	0.12101	66.58%
Cd 226.502	-51.1	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	6.58%
Ti 334.940	1107.1	0.0007	mg/L	0.00024	0.0007	mg/L	0.00024	32.13%
Ca 227.546	49.5	0.0521	mg/L	0.00717	0.0521	mg/L	0.00717	13.76%

Sequence No.: 35 Autosampler Location: 34
Sample ID: MB-4917,4917 Date Collected: 12/31/2002 11:18:53 AM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: MB-4917,4917

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	2632.0	0.0054	mg/L	0.00031	0.0054	mg/L	0.00031	5.63%
Al 308.215	596.8	0.0090	mg/L	0.00067	0.0090	mg/L	0.00067	7.44%
As 188.979	3.1	0.0012	mg/L	0.00037	0.0012	mg/L	0.00037	29.91%
Ba 233.527	491.6	0.0043	mg/L	0.00001	0.0043	mg/L	0.00001	0.25%
Be 313.107	381.4	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	38.42%

Co 228.616	24.5	0.0004	mg/L	0.00003	0.0004	mg/L	0.00003	7.66%
Cr 267.716	119.1	0.0003	mg/L	0.00003	0.0003	mg/L	0.00003	11.56%
Cu 324.752	304.6	0.0005	mg/L	0.00043	0.0005	mg/L	0.00043	93.62%
Fe 273.955	2857.8	0.0434	mg/L	0.00018	0.0434	mg/L	0.00018	0.41%
Mg 279.077	322.9	0.0057	mg/L	0.00144	0.0057	mg/L	0.00144	25.27%
Mn 257.610	1020.5	0.0024	mg/L	0.00003	0.0024	mg/L	0.00003	1.11%
Ni 231.604	10.5	0.0001	mg/L	0.00007	0.0001	mg/L	0.00007	57.82%
Pb 220.353	-15.5	-0.0006	mg/L	0.00015	-0.0006	mg/L	0.00015	24.92%
Sb 206.836	8.4	0.0015	mg/L	0.00001	0.0015	mg/L	0.00001	0.64%
Se 196.026	-2.4	-0.0007	mg/L	0.00029	-0.0007	mg/L	0.00029	41.56%
Tl 190.801	-2.4	-0.0007	mg/L	0.00112	-0.0007	mg/L	0.00112	167.91%
V 292.402	-38.6	-0.0001	mg/L	0.00006	-0.0001	mg/L	0.00006	78.75%
Zn 206.200	90.7	0.0007	mg/L	0.00015	0.0007	mg/L	0.00015	23.08%
Na 330.237	119.0	0.0397	mg/L	0.05536	0.0397	mg/L	0.05536	139.41%
Cd 226.502	-48.8	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	6.70%
Ti 334.940	441.5	0.0003	mg/L	0.00006	0.0003	mg/L	0.00006	21.53%
Ca 227.546	22.9	0.0238	mg/L	0.01777	0.0238	mg/L	0.01777	74.52%

Sequence No.: 36 Autosampler Location: 35
Sample ID: LCS-4917,4917 Date Collected: 12/31/2002 11:22:55 AM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: LCS-4917,4917

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	534452.8	1.1035	mg/L	0.00875	1.1035	mg/L	0.00875	0.79%
Al 308.215	590624.9	8.9447	mg/L	0.16031	8.9447	mg/L	0.16031	1.79%
As 188.979	1278.7	0.5079	mg/L	0.00184	0.5079	mg/L	0.00184	0.36%
Ba 233.527	1098858.0	9.6354	mg/L	0.00579	9.6354	mg/L	0.00579	0.06%
Be 313.107	2577415.5	0.2291	mg/L	0.00079	0.2291	mg/L	0.00079	0.34%
Co 228.616	146033.7	2.2040	mg/L	0.03887	2.2040	mg/L	0.03887	1.76%
Cr 267.716	420822.6	0.9025	mg/L	0.01381	0.9025	mg/L	0.01381	1.53%
Cu 324.752	761989.9	1.1350	mg/L	0.00545	1.1350	mg/L	0.00545	0.48%
Fe 273.955	301881.0	4.5882	mg/L	0.06615	4.5882	mg/L	0.06615	1.44%
Mg 279.077	1288841.7	22.763	mg/L	0.0788	22.763	mg/L	0.0788	0.35%
Mn 257.610	1047514.6	2.4792	mg/L	0.01062	2.4792	mg/L	0.01062	0.43%
Ni 231.604	204762.8	2.4134	mg/L	0.02499	2.4134	mg/L	0.02499	1.04%
Pb 220.353	12803.9	0.4848	mg/L	0.00131	0.4848	mg/L	0.00131	0.27%
Sb 206.836	2528.0	0.4534	mg/L	0.00009	0.4534	mg/L	0.00009	0.02%
Se 196.026	1538.1	0.4533	mg/L	0.00779	0.4533	mg/L	0.00779	0.17%
Tl 190.801	1698.5	0.4783	mg/L	0.00185	0.4783	mg/L	0.00185	0.39%
V 292.402	1096686.7	2.2753	mg/L	0.00341	2.2753	mg/L	0.00341	0.15%
Zn 206.200	314206.7	2.2862	mg/L	0.02859	2.2862	mg/L	0.02859	1.25%
Na 330.237	60700.1	21.160	mg/L	0.3459	21.160	mg/L	0.3459	1.63%
Cd 226.502	111093.9	0.2336	mg/L	0.00348	0.2336	mg/L	0.00348	1.49%
Ti 334.940	1355.6	0.0009	mg/L	0.00000	0.0009	mg/L	0.00000	0.27%
Ca 227.546	21071.4	22.114	mg/L	0.0338	22.114	mg/L	0.0338	0.15%

Sequence No.: 37 Autosampler Location: 36
Sample ID: A1905-07A,4917 Date Collected: 12/31/2002 11:27:07 AM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: A1905-07A,4917

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	1645.8	0.0034	mg/L	0.00015	0.0034	mg/L	0.00015	4.38%
Al 308.215	758.7	0.0115	mg/L	0.00020	0.0115	mg/L	0.00020	1.76%
As 188.979	5.8	0.0023	mg/L	0.00148	0.0023	mg/L	0.00148	64.68%
Ba 233.527	837.1	0.0073	mg/L	0.00021	0.0073	mg/L	0.00021	2.86%
Be 313.107	623.9	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	13.35%
Co 228.616	32.9	0.0005	mg/L	0.00002	0.0005	mg/L	0.00002	4.03%
Cr 267.716	152.5	0.0003	mg/L	0.00008	0.0003	mg/L	0.00008	23.11%
Cu 324.752	2424.7	0.0036	mg/L	0.00108	0.0036	mg/L	0.00108	29.69%

Fe 273.955	1584.0	0.0242 mg/L	0.00016	0.0242 mg/L	0.00016	0.65%
Mg 279.077	252.2	0.0045 mg/L	0.00070	0.0045 mg/L	0.00070	15.61%
Mn 257.610	1163.2	0.0028 mg/L	0.00003	0.0028 mg/L	0.00003	1.05%
Ni 231.604	-1.8	0.0000 mg/L	0.00039	0.0000 mg/L	0.00039	>999.9%
Pb 220.353	-14.2	-0.0005 mg/L	0.00008	-0.0005 mg/L	0.00008	14.39%
Sb 206.836	10.5	0.0019 mg/L	0.00021	0.0019 mg/L	0.00021	11.52%
Se 196.026	0.6	0.0002 mg/L	0.00094	0.0002 mg/L	0.00094	490.30%
Tl 190.801	-0.6	-0.0002 mg/L	0.00040	-0.0002 mg/L	0.00040	253.35%
V 292.402	-3.8	0.0000 mg/L	0.00011	0.0000 mg/L	0.00011	>999.9%
Zn 206.200	538.0	0.0039 mg/L	0.00036	0.0039 mg/L	0.00036	9.08%
Na 330.237	2711.2	0.9024 mg/L	0.06887	0.9024 mg/L	0.06887	7.63%
Cd 226.502	-54.0	-0.0001 mg/L	0.00000	-0.0001 mg/L	0.00000	3.23%
Ti 334.940	205.3	0.0001 mg/L	0.00005	0.0001 mg/L	0.00005	37.56%
Ca 227.546	45.2	0.0475 mg/L	0.01496	0.0475 mg/L	0.01496	31.50%

Sequence No.: 38
Sample ID: CCV2
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/31/2002 11:31:11 AM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	579927.9	1.1974	mg/L	0.00473	1.1974	mg/L	0.00473	0.39%
Al 308.215	644696.6	9.7636	mg/L	0.04329	9.7636	mg/L	0.04329	0.44%
As 188.979	1363.9	0.5222	mg/L	0.00097	0.5222	mg/L	0.00097	0.18%
Ba 233.527	1226647.4	10.756	mg/L	0.0682	10.756	mg/L	0.0682	0.63%
Be 313.107	2822550.1	0.2509	mg/L	0.00004	0.2509	mg/L	0.00004	0.02%
Co 228.616	162254.7	2.4488	mg/L	0.00620	2.4488	mg/L	0.00620	0.25%
Cr 267.716	461843.0	0.9905	mg/L	0.00630	0.9905	mg/L	0.00630	0.64%
Cu 324.752	830628.9	1.2373	mg/L	0.00636	1.2373	mg/L	0.00636	0.51%
Fe 273.955	332139.5	5.0480	mg/L	0.03204	5.0480	mg/L	0.03204	0.63%
Mg 279.077	1421553.1	25.106	mg/L	0.1801	25.106	mg/L	0.1801	0.72%
Mn 257.610	1128324.2	2.6704	mg/L	0.02032	2.6704	mg/L	0.02032	0.76%
Ni 231.604	225168.5	2.6539	mg/L	0.01762	2.6539	mg/L	0.01762	0.66%
Pb 220.353	13789.9	0.5222	mg/L	0.00017	0.5222	mg/L	0.00017	0.03%
Sb 206.836	2858.3	0.5125	mg/L	0.00008	0.5125	mg/L	0.00008	0.02%
Se 196.026	1673.1	0.4929	mg/L	0.00162	0.4929	mg/L	0.00162	0.33%
Tl 190.801	1829.5	0.5151	mg/L	0.00034	0.5151	mg/L	0.00034	0.07%
V 292.402	1197730.9	2.4850	mg/L	0.01494	2.4850	mg/L	0.01494	0.60%
Zn 206.200	346693.1	2.5225	mg/L	0.01612	2.5225	mg/L	0.01612	0.64%
Na 330.237	71156.6	23.639	mg/L	0.0688	23.639	mg/L	0.0688	0.29%
Cd 226.502	120370.9	0.2532	mg/L	0.00202	0.2532	mg/L	0.00202	0.80%
Ti 334.940	2226.9	0.0015	mg/L	0.00005	0.0015	mg/L	0.00005	3.52%
Ca 227.546	22892.5	24.023	mg/L	0.0325	24.023	mg/L	0.0325	0.14%

Sequence No.: 39
Sample ID: CCB2
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 12/31/2002 11:35:22 AM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-701.3	-0.0014	mg/L	0.00006	-0.0014	mg/L	0.00006	3.92%
Al 308.215	884.2	0.0134	mg/L	0.00031	0.0134	mg/L	0.00031	2.31%
As 188.979	4.8	0.0019	mg/L	0.00025	0.0019	mg/L	0.00025	13.35%
Ba 233.527	115.3	0.0010	mg/L	0.00006	0.0010	mg/L	0.00006	6.30%
Be 313.107	357.0	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	26.61%
Co 228.616	18.9	0.0003	mg/L	0.00002	0.0003	mg/L	0.00002	7.88%
Cr 267.716	46.9	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	7.09%
Cu 324.752	1152.5	0.0017	mg/L	0.00039	0.0017	mg/L	0.00039	22.93%
Fe 273.955	149.3	0.0023	mg/L	0.00046	0.0023	mg/L	0.00046	20.42%
Mg 279.077	460.3	0.0081	mg/L	0.00038	0.0081	mg/L	0.00038	4.74%
Mn 257.610	206.1	0.0005	mg/L	0.00003	0.0005	mg/L	0.00003	7.17%

Ni 231.604	-4.7	-0.0001 mg/L	0.00014	-0.0001 mg/L	0.00014	248.12%
Pb 220.353	-21.3	-0.0008 mg/L	0.00017	-0.0008 mg/L	0.00017	20.74%
Sb 206.836	-2.2	-0.0004 mg/L	0.00009	-0.0004 mg/L	0.00009	21.60%
Se 196.026	-1.8	-0.0005 mg/L	0.00005	-0.0005 mg/L	0.00005	9.10%
Tl 190.801	-0.3	-0.0001 mg/L	0.00163	-0.0001 mg/L	0.00163	>999.9%
V 292.402	-34.7	-0.0001 mg/L	0.00000	-0.0001 mg/L	0.00000	1.80%
Zn 206.200	66.5	0.0005 mg/L	0.00030	0.0005 mg/L	0.00030	61.51%
Na 330.237	36.5	0.0121 mg/L	0.07419	0.0121 mg/L	0.07419	612.13%
Cd 226.502	-28.1	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	14.57%
Ti 334.940	-74.0	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	36.26%
Ca 227.546	2.5	0.0026 mg/L	0.00614	0.0026 mg/L	0.00614	237.89%

Sequence No.: 40
Sample ID: A1905-08A,4917
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 37
Date Collected: 12/31/2002 11:39:24 AM

Sample Prep Volume:
Data Type: Original

Mean Data: A1905-08A,4917

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	1835.9	0.0038	mg/L	0.00022	0.0038	mg/L	0.00022	5.86%
Al 308.215	617.7	0.0094	mg/L	0.00031	0.0094	mg/L	0.00031	3.27%
As 188.979	1.3	0.0005	mg/L	0.00098	0.0005	mg/L	0.00098	191.68%
Ba 233.527	655.5	0.0057	mg/L	0.00030	0.0057	mg/L	0.00030	5.31%
Be 313.107	83.8	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	63.72%
Co 228.616	24.5	0.0004	mg/L	0.00002	0.0004	mg/L	0.00002	6.27%
Cr 267.716	166.5	0.0004	mg/L	0.00021	0.0004	mg/L	0.00021	59.68%
Cu 324.752	2327.2	0.0035	mg/L	0.00048	0.0035	mg/L	0.00048	13.60%
Fe 273.955	12488.0	0.1898	mg/L	0.00325	0.1898	mg/L	0.00325	1.71%
Mg 279.077	347.3	0.0061	mg/L	0.00051	0.0061	mg/L	0.00051	8.26%
Mn 257.610	1271.4	0.0030	mg/L	0.00007	0.0030	mg/L	0.00007	2.18%
Ni 231.604	76.2	0.0009	mg/L	0.00019	0.0009	mg/L	0.00019	20.99%
Pb 220.353	-24.2	-0.0009	mg/L	0.00010	-0.0009	mg/L	0.00010	11.16%
Sb 206.836	6.8	0.0012	mg/L	0.00010	0.0012	mg/L	0.00010	8.37%
Se 196.026	2.5	0.0008	mg/L	0.00084	0.0008	mg/L	0.00084	107.04%
Tl 190.801	-0.8	-0.0002	mg/L	0.00024	-0.0002	mg/L	0.00024	115.81%
V 292.402	-95.1	-0.0002	mg/L	0.00004	-0.0002	mg/L	0.00004	18.52%
Zn 206.200	600.7	0.0044	mg/L	0.00037	0.0044	mg/L	0.00037	8.51%
Na 330.237	2293.5	0.7637	mg/L	0.06393	0.7637	mg/L	0.06393	8.37%
Cd 226.502	-45.0	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	5.60%
Ti 334.940	210.1	0.0001	mg/L	0.00008	0.0001	mg/L	0.00008	54.87%
Ca 227.546	18.2	0.0176	mg/L	0.00928	0.0176	mg/L	0.00928	52.79%

Sequence No.: 41
Sample ID: A1905-10A,4917
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 38
Date Collected: 12/31/2002 11:43:28 AM

Sample Prep Volume:
Data Type: Original

Mean Data: A1905-10A,4917

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	1773.3	0.0037	mg/L	0.00017	0.0037	mg/L	0.00017	4.59%
Al 308.215	952.6	0.0144	mg/L	0.00396	0.0144	mg/L	0.00396	27.46%
As 188.979	2.2	0.0009	mg/L	0.00219	0.0009	mg/L	0.00219	250.33%
Ba 233.527	1157.2	0.0101	mg/L	0.00005	0.0101	mg/L	0.00005	0.52%
Be 313.107	49.4	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	67.93%
Co 228.616	26.6	0.0004	mg/L	0.00009	0.0004	mg/L	0.00009	21.52%
Cr 267.716	232.6	0.0005	mg/L	0.00006	0.0005	mg/L	0.00006	11.22%
Cu 324.752	939.4	0.0014	mg/L	0.00036	0.0014	mg/L	0.00036	25.24%
Fe 273.955	9767.4	0.1485	mg/L	0.00098	0.1485	mg/L	0.00098	0.66%
Mg 279.077	500.9	0.0089	mg/L	0.00303	0.0089	mg/L	0.00303	34.13%
Mn 257.610	2534.3	0.0060	mg/L	0.00007	0.0060	mg/L	0.00007	1.17%
Ni 231.604	17.0	0.0002	mg/L	0.00024	0.0002	mg/L	0.00024	121.00%
Pb 220.353	-15.5	-0.0006	mg/L	0.00035	-0.0006	mg/L	0.00035	60.81%
Sb 206.836	2.7	0.0005	mg/L	0.00051	0.0005	mg/L	0.00051	103.41%

Se 196.026	-1.8	-0.0005 mg/L	0.00088	-0.0005 mg/L	0.00088	180.79%
Tl 190.801	0.1	0.0001 mg/L	0.00060	0.0001 mg/L	0.00060	>999.9%
V 292.402	14.3	0.0000 mg/L	0.00007	0.0000 mg/L	0.00007	231.39%
Zn 206.200	354.8	0.0026 mg/L	0.00011	0.0026 mg/L	0.00011	4.10%
Na 330.237	650.0	0.2166 mg/L	0.00022	0.2166 mg/L	0.00022	0.10%
Cd 226.502	-45.3	-0.0001 mg/L	0.00003	-0.0001 mg/L	0.00003	24.79%
Ti 334.940	648.2	0.0004 mg/L	0.00002	0.0004 mg/L	0.00002	4.66%
Ca 227.546	49.4	0.0509 mg/L	0.01453	0.0509 mg/L	0.01453	28.52%

Sequence No.: 42
Sample ID: MB-4916,4916
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 12/31/2002 11:47:32 AM

Sample Prep Volume:
Data Type: Original

Mean Data: MB-4916,4916

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	3917.4	0.0081	mg/L	0.00067	0.0081	mg/L	0.00067	8.25%
Al 308.215	735.3	0.0111	mg/L	0.00033	0.0111	mg/L	0.00033	2.95%
As 188.979	2.5	0.0010	mg/L	0.00105	0.0010	mg/L	0.00105	106.32%
Ba 233.527	847.5	0.0074	mg/L	0.00001	0.0074	mg/L	0.00001	0.18%
Be 313.107	579.5	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	7.90%
Co 228.616	46.9	0.0007	mg/L	0.00004	0.0007	mg/L	0.00004	5.90%
Cr 267.716	509.4	0.0011	mg/L	0.00010	0.0011	mg/L	0.00010	9.04%
Cu 324.752	1259.4	0.0019	mg/L	0.00047	0.0019	mg/L	0.00047	24.82%
Fe 273.955	2709.3	0.0412	mg/L	0.00042	0.0412	mg/L	0.00042	1.01%
Mg 279.077	158.6	0.0028	mg/L	0.00136	0.0028	mg/L	0.00136	48.00%
Mn 257.610	2778.4	0.0066	mg/L	0.00018	0.0066	mg/L	0.00018	2.80%
Ni 231.604	138.7	0.0016	mg/L	0.00024	0.0016	mg/L	0.00024	14.84%
Pb 220.353	-12.3	-0.0005	mg/L	0.00012	-0.0005	mg/L	0.00012	26.90%
Sb 206.836	17.8	0.0032	mg/L	0.00068	0.0032	mg/L	0.00068	21.35%
Se 196.026	6.4	0.0019	mg/L	0.00245	0.0019	mg/L	0.00245	128.66%
Tl 190.801	-3.0	-0.0008	mg/L	0.00024	-0.0008	mg/L	0.00024	29.34%
V 292.402	70.2	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	8.47%
Zn 206.200	370.0	0.0027	mg/L	0.00008	0.0027	mg/L	0.00008	3.00%
Na 330.237	1149.0	0.3825	mg/L	0.02408	0.3825	mg/L	0.02408	6.30%
Cd 226.502	-73.3	-0.0002	mg/L	0.00003	-0.0002	mg/L	0.00003	19.28%
Ti 334.940	624.1	0.0004	mg/L	0.00003	0.0004	mg/L	0.00003	6.48%
Ca 227.546	59.3	0.0622	mg/L	0.01465	0.0622	mg/L	0.01465	23.55%

Sequence No.: 43
Sample ID: LCS-4916,4916
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 40
Date Collected: 12/31/2002 11:51:37 AM

Sample Prep Volume:
Data Type: Original

Mean Data: LCS-4916,4916

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	526890.3	1.0879	mg/L	0.00135	1.0879	mg/L	0.00135	0.12%
Al 308.215	583833.7	8.8419	mg/L	0.10158	8.8419	mg/L	0.10158	1.15%
As 188.979	1239.4	0.4927	mg/L	0.00314	0.4927	mg/L	0.00314	0.64%
Ba 233.527	1107493.3	9.7111	mg/L	0.08069	9.7111	mg/L	0.08069	0.83%
Be 313.107	2571052.1	0.2285	mg/L	0.00180	0.2285	mg/L	0.00180	0.79%
Co 228.616	147009.7	2.2187	mg/L	0.01564	2.2187	mg/L	0.01564	0.71%
Cr 267.716	428161.8	0.9183	mg/L	0.00331	0.9183	mg/L	0.00331	0.36%
Cu 324.752	758341.5	1.1295	mg/L	0.00909	1.1295	mg/L	0.00909	0.81%
Fe 273.955	306247.1	4.6545	mg/L	0.01181	4.6545	mg/L	0.01181	0.25%
Mg 279.077	1264649.1	22.695	mg/L	0.1396	22.695	mg/L	0.1396	0.62%
Mn 257.610	1062202.5	2.5139	mg/L	0.03180	2.5139	mg/L	0.03180	1.26%
Ni 231.604	205559.6	2.4228	mg/L	0.00213	2.4228	mg/L	0.00213	0.09%
Pb 220.353	12716.2	0.4815	mg/L	0.00131	0.4815	mg/L	0.00131	0.27%
Sb 206.836	2481.6	0.4451	mg/L	0.00104	0.4451	mg/L	0.00104	0.23%
Se 196.026	1408.4	0.4148	mg/L	0.00029	0.4148	mg/L	0.00029	0.07%
Tl 190.801	1662.7	0.4685	mg/L	0.00000	0.4685	mg/L	0.00000	0.00%
V 292.402	1107551.4	2.2979	mg/L	0.01809	2.2979	mg/L	0.01809	0.79%

Zn 206.200	311470.4	2.2663 mg/L	0.00288	2.2663 mg/L	0.00288	0.13%
Na 330.237	62236.1	20.674 mg/L	0.2044	20.674 mg/L	0.2044	0.99%
Cd 226.502	109550.2	0.2304 mg/L	0.00047	0.2304 mg/L	0.00047	0.20%
Ti 334.940	1784.5	0.0012 mg/L	0.00002	0.0012 mg/L	0.00002	1.28%
Ca 227.546	20373.6	21.374 mg/L	0.0309	21.374 mg/L	0.0309	0.14%

Sequence No.: 44
Sample ID: A1010-05AD
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 41
Date Collected: 12/31/2002 11:55:44 AM

Sample Prep Volume:
Data Type: Original

Analysis Begun

Start Time: 12/31/2002 11:56:14 AM
Logged In Analyst: optima2
Spectrometer Model: Optima 3100 XL

Plasma On Time: 12/31/2002 8:03:09 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\pe\administrator\Sample Information\KMG.sif
Results Data Set: Ai23101
Results Library: d:\pe\administrator\Results\Results.mdb

Sequence No.: 45
Sample ID: A1905-01D,4916
Analyst:
Sample Wt: 1.04g
Dilution:

Autosampler Location: 43
Date Collected: 12/31/2002 11:56:14 AM

Sample Prep Volume:
Data Type: Original

Mean Data: A1905-01D,4916

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	2140.4	-0.0034	mg/L	0.00029	-0.0034	mg/L	0.00029	8.51%
Al 308.215	6205796.0	93.984	mg/L	0.0535	93.984	mg/L	0.0535	0.06%
As 188.979	38.2	0.0271	mg/L	0.00108	0.0271	mg/L	0.00108	3.98%
Ba 233.527	83532.6	0.7257	mg/L	0.00123	0.7257	mg/L	0.00123	0.17%
Be 313.107	-675.9	0.0040	mg/L	0.00002	0.0040	mg/L	0.00002	0.55%
Co 228.616	2855.7	0.0368	mg/L	0.00045	0.0368	mg/L	0.00045	1.23%
Cr 267.716	65819.1	0.1417	mg/L	0.00053	0.1417	mg/L	0.00053	0.37%
Cu 324.752	198110.3	0.2973	mg/L	0.00056	0.2973	mg/L	0.00056	0.19%
Fe 273.955	5128920.3	77.952	mg/L	0.1239	77.952	mg/L	0.1239	0.16%
Mg 279.077	2200239.1	38.851	mg/L	0.0355	38.851	mg/L	0.0355	0.09%
Mn 257.610	1067665.2	2.5284	mg/L	0.00769	2.5284	mg/L	0.00769	0.30%
Ni 231.604	9282.0	0.1081	mg/L	0.00060	0.1081	mg/L	0.00060	0.56%
Pb 220.353	1170.5	0.0562	mg/L	0.00029	0.0562	mg/L	0.00029	0.52%
Sb 206.836	29.7	0.0152	mg/L	0.00161	0.0152	mg/L	0.00161	10.60%
Se 196.026	-58.3	0.0019	mg/L	0.00370	0.0019	mg/L	0.00370	195.69%
Tl 190.801	-41.1	0.0022	mg/L	0.00134	0.0022	mg/L	0.00134	59.52%
V 292.402	61055.6	0.1241	mg/L	0.00014	0.1241	mg/L	0.00014	0.12%
Zn 206.200	81960.3	0.5859	mg/L	0.00202	0.5859	mg/L	0.00202	0.34%
Na 330.237	141976.8	47.284	mg/L	0.0661	47.284	mg/L	0.0661	0.14%
Cd 226.502	2186.8	0.0016	mg/L	0.00024	0.0016	mg/L	0.00024	15.09%
Ti 334.940	5919945.3	3.9525	mg/L	0.00382	3.9525	mg/L	0.00382	0.10%
Ca 227.546	989405.1	1035.8	mg/L	3.49	1035.8	mg/L	3.49	0.34%

Analysis Begun

Start Time: 12/31/2002 11:59:28 AM
Logged In Analyst: optima2
Spectrometer Model: Optima 3100 XL

Plasma On Time: 12/31/2002 8:03:09 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\pe\administrator\Sample Information\KMG.sif
Results Data Set: Ai23101
Results Library: d:\pe\administrator\Results\Results.mdb

Sequence No.: 46
Autosampler Location: 43

Sample ID: A1905-02D,4916 Date Collected: 12/31/2002 11:59:28 AM
Analyst:
Sample Wt: 1.058 Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: A1905-02D,4916

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-583.7	-0.0045	mg/L	0.00012	-0.0045	mg/L	0.00012	2.64%
Al 308.215	6364260.9	96.384	mg/L	0.5510	96.384	mg/L	0.5510	0.57%
As 188.979	56.0	0.0363	mg/L	0.00109	0.0363	mg/L	0.00109	3.01%
Ba 233.527	79261.2	0.6879	mg/L	0.00074	0.6879	mg/L	0.00074	0.11%
Be 313.107	-2779.2	0.0041	mg/L	0.00004	0.0041	mg/L	0.00004	1.08%
Co 228.616	3143.5	0.0406	mg/L	0.00046	0.0406	mg/L	0.00046	1.13%
Cr 267.716	78627.6	0.1693	mg/L	0.00036	0.1693	mg/L	0.00036	0.21%
Cu 324.752	192749.5	0.2916	mg/L	0.00108	0.2916	mg/L	0.00108	0.37%
Fe 273.955	6136485.9	93.266	mg/L	0.4462	93.266	mg/L	0.4462	0.48%
Mg 279.077	2371109.4	41.866	mg/L	0.0260	41.866	mg/L	0.0260	0.06%
Mn 257.610	1043088.5	2.4705	mg/L	0.01330	2.4705	mg/L	0.01330	0.54%
Ni 231.604	10302.7	0.1200	mg/L	0.00055	0.1200	mg/L	0.00055	0.46%
Pb 220.353	1149.2	0.0559	mg/L	0.00007	0.0559	mg/L	0.00007	0.12%
Sb 206.836	49.0	0.0193	mg/L	0.00565	0.0193	mg/L	0.00565	29.26%
Se 196.026	-74.4	0.0013	mg/L	0.00362	0.0013	mg/L	0.00362	274.56%
Tl 190.801	-72.8	-0.0058	mg/L	0.00646	-0.0058	mg/L	0.00646	111.28%
V 292.402	73703.4	0.1503	mg/L	0.00012	0.1503	mg/L	0.00012	0.08%
Zn 206.200	810052.5	0.5788	mg/L	0.00020	0.5788	mg/L	0.00020	0.03%
Na 330.237	25273.3	8.6233	mg/L	0.11432	8.6233	mg/L	0.11432	1.33%
Cd 226.502	2614.2	0.0019	mg/L	0.00016	0.0019	mg/L	0.00016	8.68%
Ti 334.940	6304727.9	4.2084	mg/L	0.02375	4.2084	mg/L	0.02375	0.56%
Ca 227.546	903666.6	954.56	mg/L	3.095	954.56	mg/L	3.095	0.32%

Sequence No.: 47 Autosampler Location: 44
Sample ID: A1905-03D,4916 Date Collected: 12/31/2002 12:02:02 PM
Analyst:
Sample Wt: 1.058 Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: A1905-03D,4916

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-501.8	-0.0092	mg/L	0.00011	-0.0092	mg/L	0.00011	1.19%
Al 308.215	7716502.7	116.86	mg/L	2.230	116.86	mg/L	2.230	1.91%
As 188.979	46.5	0.0328	mg/L	0.00549	0.0328	mg/L	0.00549	16.72%
Ba 233.527	78890.6	0.6840	mg/L	0.00101	0.6840	mg/L	0.00101	0.15%
Be 313.107	4461.1	0.0052	mg/L	0.00008	0.0052	mg/L	0.00008	1.44%
Co 228.616	3804.5	0.0500	mg/L	0.00081	0.0500	mg/L	0.00081	1.62%
Cr 267.716	89914.9	0.1934	mg/L	0.00029	0.1934	mg/L	0.00029	0.15%
Cu 324.752	231102.1	0.3470	mg/L	0.00053	0.3470	mg/L	0.00053	0.15%
Fe 273.955	6093302.3	92.611	mg/L	1.2242	92.611	mg/L	1.2242	1.32%
Mg 279.077	2726981.1	48.151	mg/L	0.1014	48.151	mg/L	0.1014	0.21%
Mn 257.610	1263461.0	2.9921	mg/L	0.00322	2.9921	mg/L	0.00322	0.11%
Ni 231.604	13271.1	0.1548	mg/L	0.00066	0.1549	mg/L	0.00066	0.43%
Pb 220.353	1345.0	0.0880	mg/L	0.00148	0.0880	mg/L	0.00148	1.68%
Sb 206.836	48.6	0.0203	mg/L	0.00312	0.0203	mg/L	0.00312	15.40%
Se 196.026	-24.1	0.0155	mg/L	0.01678	0.0155	mg/L	0.01678	107.96%
Tl 190.801	-71.9	-0.0037	mg/L	0.00229	-0.0037	mg/L	0.00229	61.26%
V 292.402	80328.8	0.1637	mg/L	0.00042	0.1637	mg/L	0.00042	0.26%
Zn 206.200	113382.3	0.8127	mg/L	0.00468	0.8127	mg/L	0.00468	0.58%
Na 330.237	83596.4	27.920	mg/L	0.0708	27.920	mg/L	0.0708	0.25%
Cd 226.502	2514.4	0.0017	mg/L	0.00024	0.0017	mg/L	0.00024	14.40%
Ti 334.940	7054087.0	4.7093	mg/L	0.08084	4.7093	mg/L	0.08084	1.72%
Ca 227.546	1115341.8	1178.4	mg/L	1.59	1178.4	mg/L	1.59	0.13%

Sequence No.: 48 Autosampler Location: 3
Sample ID: CCV3 Date Collected: 12/31/2002 12:04:37 PM
Analyst:
Sample Wt: Sample Prep Volume:

Dilution: Data Type: Original

Mean Data: CCV3

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	568645.5	1.1741	mg/L	0.00704	1.1741	mg/L	0.00704	0.60%
Al 308.215	642877.7	9.7361	mg/L	0.07054	9.7361	mg/L	0.07054	0.72%
As 188.979	1391.4	0.5527	mg/L	0.00189	0.5527	mg/L	0.00189	0.34%
Ba 233.527	1240843.5	10.880	mg/L	0.0803	10.880	mg/L	0.0803	0.74%
Be 313.107	2789011.6	0.2479	mg/L	0.00253	0.2479	mg/L	0.00253	1.02%
Co 228.616	158999.8	2.3996	mg/L	0.01204	2.3996	mg/L	0.01204	0.50%
Cr 267.716	460764.7	0.9882	mg/L	0.00632	0.9882	mg/L	0.00632	0.64%
Cu 324.752	824302.1	1.2277	mg/L	0.01075	1.2277	mg/L	0.01075	0.88%
Fe 273.955	333031.7	5.0616	mg/L	0.03530	5.0616	mg/L	0.03530	0.70%
Mg 279.077	1425443.3	25.175	mg/L	0.1628	25.175	mg/L	0.1628	0.65%
Mn 257.610	1161623.3	2.7492	mg/L	0.02551	2.7492	mg/L	0.02551	0.93%
Ni 231.604	230484.3	2.7166	mg/L	0.02297	2.7166	mg/L	0.02297	0.85%
Pb 220.353	13890.3	0.5260	mg/L	0.00045	0.5260	mg/L	0.00045	0.08%
Sb 206.836	2808.6	0.5037	mg/L	0.00016	0.5037	mg/L	0.00016	0.03%
Se 196.026	1654.1	0.4872	mg/L	0.00014	0.4872	mg/L	0.00014	0.03%
Tl 190.801	1829.0	0.5153	mg/L	0.00006	0.5153	mg/L	0.00006	0.01%
V 292.402	1202289.7	2.4944	mg/L	0.01890	2.4944	mg/L	0.01890	0.76%
Zn 206.200	346108.8	2.5183	mg/L	0.01527	2.5183	mg/L	0.01527	0.61%
Na 330.237	70689.3	23.483	mg/L	0.1714	23.483	mg/L	0.1714	0.73%
Cd 226.502	119665.8	0.2517	mg/L	0.00105	0.2517	mg/L	0.00105	0.42%
Ti 334.940	2746.3	0.0018	mg/L	0.00013	0.0018	mg/L	0.00013	6.84%
Ca 227.546	22842.2	23.969	mg/L	0.0169	23.969	mg/L	0.0169	0.07%

Sequence No.: 49 Autosampler Location: 4
Sample ID: CCB3 Date Collected: 12/31/2002 12:08:47 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: CCB3

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-1104.5	-0.0023	mg/L	0.00003	-0.0023	mg/L	0.00003	1.37%
Al 308.215	1283.6	0.0194	mg/L	0.00038	0.0194	mg/L	0.00038	1.97%
As 188.979	3.5	0.0013	mg/L	0.00048	0.0013	mg/L	0.00048	35.30%
Ba 233.527	137.0	0.0012	mg/L	0.00002	0.0012	mg/L	0.00002	1.34%
Be 313.107	404.4	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	26.88%
Co 228.616	17.3	0.0003	mg/L	0.00003	0.0003	mg/L	0.00003	11.87%
Cr 267.716	67.5	0.0001	mg/L	0.00008	0.0001	mg/L	0.00008	54.44%
Cu 324.752	1072.9	0.0016	mg/L	0.00047	0.0016	mg/L	0.00047	29.05%
Fe 273.955	186.9	0.0028	mg/L	0.00030	0.0028	mg/L	0.00030	10.55%
Mg 279.077	211.8	0.0037	mg/L	0.00104	0.0037	mg/L	0.00104	27.80%
Mn 257.610	197.6	0.0005	mg/L	0.00001	0.0005	mg/L	0.00001	2.40%
Ni 231.604	-2.2	0.0000	mg/L	0.00029	0.0000	mg/L	0.00029	>999.9%
Pb 220.353	-27.3	-0.0010	mg/L	0.00026	-0.0010	mg/L	0.00026	25.61%
Sb 206.836	2.2	0.0004	mg/L	0.00079	0.0004	mg/L	0.00079	204.04%
Se 196.026	-1.0	-0.0003	mg/L	0.00087	-0.0003	mg/L	0.00087	281.74%
Tl 190.801	4.0	0.0011	mg/L	0.00112	0.0011	mg/L	0.00112	98.89%
V 292.402	40.3	0.0001	mg/L	0.00007	0.0001	mg/L	0.00007	88.82%
Zn 206.200	94.4	0.0007	mg/L	0.00035	0.0007	mg/L	0.00035	51.11%
Na 330.237	-100.3	-0.0034	mg/L	0.00142	-0.0034	mg/L	0.00142	94.03%
Cd 226.502	-40.6	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	18.17%
Ti 334.940	-7.9	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	406.11%
Ca 227.546	16.0	0.0169	mg/L	0.01373	0.0169	mg/L	0.01373	81.36%

Sequence No.: 50 Autosampler Location: 45
Sample ID: A1905-06C,4916 Date Collected: 12/31/2002 12:12:49 PM
Analyst:
Sample Wt: 1.08 g Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: A1905-06C,4916

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-30693.2	0.0044	mg/L	0.00014	0.0044	mg/L	0.00014	3.08%
Al 308.215	20041081.1	303.51	mg/L	2.549	303.51	mg/L	2.549	0.84%
As 188.979	320.3	0.1768	mg/L	0.01146	0.1768	mg/L	0.01146	6.48%
Ba 233.527	356037.9	3.1042	mg/L	0.00280	3.1042	mg/L	0.00280	0.09%
Be 313.107	-111422.8	-0.0099	mg/L	0.00003	-0.0099	mg/L	0.00003	0.32%
Co 228.616	13997.2	0.2072	mg/L	0.00136	0.2072	mg/L	0.00136	0.66%
Cr 267.716	383870.9	0.8255	mg/L	0.00062	0.8255	mg/L	0.00062	0.08%
Cu 324.752	239932.3	0.3931	mg/L	0.00002	0.3931	mg/L	0.00002	0.00%
Fe 273.955	24611784.8	374.06	mg/L	2.061	374.06	mg/L	2.061	0.55%
Mg 279.077	7918355.0	139.84	mg/L	0.309	139.84	mg/L	0.309	0.22%
Mn 257.610	5869666.3	13.757	mg/L	0.1051	13.757	mg/L	0.1051	0.76%
Ni 231.604	39042.8	0.4590	mg/L	0.00090	0.4590	mg/L	0.00090	0.20%
Pb 220.353	4194.6	0.1854	mg/L	0.00219	0.1854	mg/L	0.00219	1.18%
Sb 206.836	3.3	0.0182	mg/L	0.00371	0.0182	mg/L	0.00371	20.39%
Se 196.026	-335.4	-0.0063	mg/L	0.00390	-0.0063	mg/L	0.00390	61.66%
Tl 190.801	-285.7	-0.0179	mg/L	0.00323	-0.0179	mg/L	0.00323	18.09%
V 292.402	391815.4	0.8117	mg/L	0.00001	0.8117	mg/L	0.00001	0.00%
Zn 206.200	127603.7	0.9178	mg/L	0.00303	0.9178	mg/L	0.00303	0.33%
Na 330.237	12222.7	4.5442	mg/L	0.08254	4.5442	mg/L	0.08254	1.82%
Cd 226.502	11944.7	0.0106	mg/L	0.00000	0.0106	mg/L	0.00000	0.05%
Tl 334.940	Saturated2							
Saturated in preshot (code 2)								
Ca 227.546	83705.7	85.347	mg/L	0.1804	85.347	mg/L	0.1804	0.21%

Sequence No.: 51 Autosampler Location: 46
Sample ID: MB-4954,4954 Date Collected: 12/31/2002 12:15:31 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: MB-4954,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	110.4	0.0002	mg/L	0.00017	0.0002	mg/L	0.00017	74.92%
Al 308.215	1101.6	0.0167	mg/L	0.00087	0.0167	mg/L	0.00087	5.19%
As 188.979	1.8	0.0007	mg/L	0.00137	0.0007	mg/L	0.00137	189.74%
Ba 233.527	1331.7	0.0117	mg/L	0.00014	0.0117	mg/L	0.00014	1.21%
Be 313.107	695.0	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	2.22%
Co 228.616	19.3	0.0003	mg/L	0.00004	0.0003	mg/L	0.00004	14.39%
Cr 267.716	424.4	0.0009	mg/L	0.00006	0.0009	mg/L	0.00006	6.95%
Cu 324.752	1642.8	0.0024	mg/L	0.00074	0.0024	mg/L	0.00074	30.06%
Fe 273.955	2107.2	0.0320	mg/L	0.00247	0.0320	mg/L	0.00247	7.71%
Mg 279.077	-43.7	-0.0007	mg/L	0.00307	-0.0007	mg/L	0.00307	412.20%
Mn 257.610	2260.8	0.0054	mg/L	0.00003	0.0054	mg/L	0.00003	0.48%
Ni 231.604	75.2	0.0009	mg/L	0.00010	0.0009	mg/L	0.00010	10.79%
Pb 220.353	-19.3	-0.0007	mg/L	0.00018	-0.0007	mg/L	0.00018	24.69%
Sb 206.836	16.5	0.0029	mg/L	0.00029	0.0029	mg/L	0.00029	9.94%
Se 196.026	3.1	0.0009	mg/L	0.00102	0.0009	mg/L	0.00102	109.47%
Tl 190.801	-2.5	-0.0007	mg/L	0.00084	-0.0007	mg/L	0.00084	123.44%
V 292.402	38.9	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	21.12%
Zn 206.200	407.8	0.0030	mg/L	0.00033	0.0030	mg/L	0.00033	10.97%
Na 330.237	979.2	0.3264	mg/L	0.14758	0.3264	mg/L	0.14758	45.22%
Cd 226.502	-51.6	-0.0001	mg/L	0.00000	-0.0001	mg/L	0.00000	4.01%
Ti 334.940	2759.1	0.0018	mg/L	0.00090	0.0018	mg/L	0.00090	49.13%
Ca 227.546	29.4	0.0307	mg/L	0.00195	0.0307	mg/L	0.00195	6.34%

Sequence No.: 52 Autosampler Location: 47
Sample ID: LCS-4954,4954 Date Collected: 12/31/2002 12:19:31 PM
Analyst:
Sample Wt: 0.98 Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: LCS-4954,4954

Analyte	Mean Corrected	Calib			Sample			

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Ag 328.068	502484.5	1.0376	mg/L	0.00695	1.0376	mg/L	0.00695	0.67%
Al 308.215	566742.3	8.5830	mg/L	0.13424	8.5830	mg/L	0.13424	1.56%
As 188.979	1233.0	0.4900	mg/L	0.00334	0.4900	mg/L	0.00334	0.68%
Ba 233.527	1090910.7	9.5656	mg/L	0.03479	9.5656	mg/L	0.03479	0.36%
Be 313.107	2512675.7	0.2234	mg/L	0.00069	0.2234	mg/L	0.00069	0.31%
Co 228.616	140630.8	2.1224	mg/L	0.02763	2.1224	mg/L	0.02763	1.30%
Cr 267.716	415020.8	0.8901	mg/L	0.01186	0.8901	mg/L	0.01186	1.33%
Cu 324.752	740106.6	1.1023	mg/L	0.00386	1.1023	mg/L	0.00386	0.35%
Fe 273.955	300297.1	4.5641	mg/L	0.05396	4.5641	mg/L	0.05396	1.18%
Mg 279.077	1256643.5	22.195	mg/L	0.0700	22.195	mg/L	0.0700	0.32%
Mn 257.610	1060435.5	2.5097	mg/L	0.00782	2.5097	mg/L	0.00782	0.31%
Ni 231.604	203596.3	2.3997	mg/L	0.03405	2.3997	mg/L	0.03405	1.42%
Pb 220.353	12588.1	0.4766	mg/L	0.00106	0.4766	mg/L	0.00106	0.22%
Sb 206.836	2456.0	0.4405	mg/L	0.00164	0.4405	mg/L	0.00164	0.37%
Se 196.026	1360.3	0.4006	mg/L	0.00093	0.4006	mg/L	0.00093	0.23%
Tl 190.801	1633.0	0.4603	mg/L	0.00139	0.4603	mg/L	0.00139	0.30%
V 292.402	1084789.8	2.2506	mg/L	0.00923	2.2506	mg/L	0.00923	0.41%
Zn 206.200	303071.1	2.2051	mg/L	0.02392	2.2051	mg/L	0.02392	1.08%
Na 330.237	60240.0	20.010	mg/L	0.3433	20.010	mg/L	0.3433	1.72%
Cd 226.502	106622.1	0.2243	mg/L	0.00256	0.2243	mg/L	0.00256	1.14%
Ti 334.940	2815.7	0.0019	mg/L	0.00008	0.0019	mg/L	0.00008	4.09%
Ca 227.546	19841.5	20.815	mg/L	0.0684	20.815	mg/L	0.0684	0.33%

Sequence No.: 53 Autosampler Location: 48
Sample ID: A1905-15C,4954 Date Collected: 12/31/2002 12:23:40 PM
Analyst:
Sample Wt: 1.02 g Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: A1905-15C,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-11442.8	0.0053	mg/L	0.00026	0.0053	mg/L	0.00026	4.97%
Al 308.215	178057668.9	269.66	mg/L	0.957	269.66	mg/L	0.957	0.37%
As 188.979	94.4	0.0615	mg/L	0.01005	0.0615	mg/L	0.01005	16.33%
Ba 233.527	61006.9	0.5283	mg/L	0.00557	0.5283	mg/L	0.00557	1.06%
Be 313.107	34632.9	0.0120	mg/L	0.00005	0.0120	mg/L	0.00005	0.44%
Co 228.616	3942.2	0.0461	mg/L	0.00002	0.0461	mg/L	0.00002	0.05%
Cr 267.716	114240.8	0.2468	mg/L	0.00225	0.2468	mg/L	0.00225	0.91%
Cu 324.752	67510.9	0.1135	mg/L	0.00161	0.1135	mg/L	0.00161	1.42%
Fe 273.955	10422103.2	158.40	mg/L	0.544	158.40	mg/L	0.544	0.34%
Mg 279.077	3144586.6	55.515	mg/L	0.3471	55.515	mg/L	0.3471	0.63%
Mn 257.610	661660.7	1.5699	mg/L	0.01611	1.5699	mg/L	0.01611	1.03%
Ni 231.604	13259.8	0.1536	mg/L	0.00098	0.1536	mg/L	0.00098	0.64%
Pb 220.353	3675.2	0.1660	mg/L	0.00304	0.1660	mg/L	0.00304	1.83%
Sb 206.836	6.7	0.0163	mg/L	0.00054	0.0163	mg/L	0.00054	3.31%
Se 196.026	-124.3	0.0049	mg/L	0.01791	0.0049	mg/L	0.01791	367.41%
Tl 190.801	14.7	0.0228	mg/L	0.00120	0.0228	mg/L	0.00120	5.26%
V 292.402	183275.4	0.3743	mg/L	0.00407	0.3743	mg/L	0.00407	1.09%
Zn 206.200	64099.4	0.4544	mg/L	0.00171	0.4544	mg/L	0.00171	0.38%
Na 330.237	58623.6	21.987	mg/L	0.1637	21.987	mg/L	0.1637	0.74%
Cd 226.502	4224.2	0.0027	mg/L	0.00028	0.0027	mg/L	0.00028	10.21%
Ti 334.940	12990042.4	8.6572	mg/L	0.04706	8.6572	mg/L	0.04706	0.54%
Ca 227.546	27932.2	28.263	mg/L	0.0279	28.263	mg/L	0.0279	0.10%

Sequence No.: 54 Autosampler Location: 49
Sample ID: A1905-22C,4954 Date Collected: 12/31/2002 12:26:22 PM
Analyst:
Sample Wt: 1.03 g Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: A1905-22C,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-7243.3	0.0054	mg/L	0.00028	0.0054	mg/L	0.00028	5.16%
Al 308.215	11586178.3	175.47	mg/L	1.148	175.47	mg/L	1.148	0.65%

As 188.979	38.3	0.0328 mg/L	0.00555	0.0328 mg/L	0.00555	16.93%
Ba 233.527	44338.7	0.3839 mg/L	0.00122	0.3839 mg/L	0.00122	0.32%
Be 313.107	18169.2	0.0086 mg/L	0.00010	0.0086 mg/L	0.00010	1.17%
Co 228.616	2547.9	0.0280 mg/L	0.00067	0.0280 mg/L	0.00067	2.40%
Cr 267.716	81246.3	0.1754 mg/L	0.00076	0.1754 mg/L	0.00076	0.44%
Cu 324.752	29132.6	0.0514 mg/L	0.00031	0.0514 mg/L	0.00031	0.60%
Fe 273.955	7418888.3	112.746 mg/L	0.578	112.746 mg/L	0.578	0.51%
Mg 279.077	2373400.9	41.902 mg/L	0.0537	41.902 mg/L	0.0537	0.13%
Mn 257.610	665869.0	1.5786 mg/L	0.00593	1.5786 mg/L	0.00593	0.38%
Ni 231.604	9242.2	0.1068 mg/L	0.00194	0.1068 mg/L	0.00194	1.82%
Pb 220.353	2286.9	0.1048 mg/L	0.00485	0.1048 mg/L	0.00485	4.63%
Sb 206.836	63.0	0.0223 mg/L	0.00294	0.0223 mg/L	0.00294	13.19%
Se 196.026	-67.1	0.0093 mg/L	0.00113	0.0093 mg/L	0.00113	12.22%
Tl 190.801	-20.5	0.0110 mg/L	0.00427	0.0110 mg/L	0.00427	38.90%
V 292.402	124326.6	0.2534 mg/L	0.00047	0.2534 mg/L	0.00047	0.18%
Zn 206.200	40241.8	0.2835 mg/L	0.00384	0.2835 mg/L	0.00384	1.35%
Na 330.237	28040.7	11.250 mg/L	0.0507	11.250 mg/L	0.0507	0.45%
Cd 226.502	2937.9	0.0018 mg/L	0.00002	0.0018 mg/L	0.00002	1.15%
Ti 334.940	10207749.1	6.8030 mg/L	0.04734	6.8030 mg/L	0.04734	0.70%
Ca 227.546	27866.4	28.552 mg/L	0.6329	28.552 mg/L	0.6329	2.22%

Sequence No.: 55
Sample ID: A1905-25C,4954
Analyst:
Sample Wt: 1.052
Dilution:

Autosampler Location: 50
Date Collected: 12/31/2002 12:28:58 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1905-25C,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	7559.5	0.0493	mg/L	0.00016	0.0493	mg/L	0.00016	0.32%
Al 308.215	4650179.2	70.425	mg/L	0.6272	70.425	mg/L	0.6272	0.89%
As 188.979	199.3	0.1065	mg/L	0.00110	0.1065	mg/L	0.00110	1.04%
Ba 233.527	168513.0	1.4677	mg/L	0.00569	1.4677	mg/L	0.00569	0.39%
Be 313.107	-54444.6	0.0020	mg/L	0.00006	0.0020	mg/L	0.00006	2.96%
Co 228.616	1376.9	0.0091	mg/L	0.00083	0.0091	mg/L	0.00083	9.12%
Cr 267.716	86874.6	0.1886	mg/L	0.00153	0.1886	mg/L	0.00153	0.81%
Cu 324.752	506729.4	0.7685	mg/L	0.00853	0.7685	mg/L	0.00853	1.11%
Fe 273.955	13152660.1	199.89	mg/L	0.330	199.89	mg/L	0.330	0.16%
Mg 279.077	624225.8	11.024	mg/L	0.0454	11.024	mg/L	0.0454	0.41%
Mn 257.610	457608.4	1.0867	mg/L	0.00548	1.0867	mg/L	0.00548	0.50%
Ni 231.604	9523.0	0.1102	mg/L	0.00190	0.1102	mg/L	0.00190	1.72%
Pb 220.353	8191.2	0.3225	mg/L	0.00052	0.3225	mg/L	0.00052	0.16%
Sb 206.836	32.4	0.0208	mg/L	0.00340	0.0208	mg/L	0.00340	16.35%
Se 196.026	-195.9	-0.0046	mg/L	0.00076	-0.0046	mg/L	0.00076	16.61%
Tl 190.801	-31.5	0.0099	mg/L	0.00354	0.0099	mg/L	0.00354	35.73%
V 292.402	65245.5	0.1303	mg/L	0.00112	0.1303	mg/L	0.00112	0.86%
Zn 206.200	84216.4	0.6039	mg/L	0.00229	0.6039	mg/L	0.00229	0.38%
Na 330.237	95907.7	33.811	mg/L	0.3345	33.811	mg/L	0.3345	0.99%
Cd 226.502	14887.7	0.0235	mg/L	0.00031	0.0235	mg/L	0.00031	1.30%
Ti 334.940	9947946.2	6.6308	mg/L	0.01460	6.6308	mg/L	0.01460	0.22%
Ca 227.546	147782.3	154.51	mg/L	1.681	154.51	mg/L	1.681	1.09%

Sequence No.: 56
Sample ID: A1905-28A,4954
Analyst:
Sample Wt: 1.082
Dilution:

Autosampler Location: 51
Date Collected: 12/31/2002 12:31:42 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1905-28A,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-46451.4	-0.0037	mg/L	0.00204	-0.0037	mg/L	0.00204	55.60%
Al 308.215	25014886.3	378.84	mg/L	0.307	378.84	mg/L	0.307	0.08%
As 188.979	235.3	0.1659	mg/L	0.00124	0.1659	mg/L	0.00124	0.75%
Ba 233.527	412846.1	3.5976	mg/L	0.06355	3.5976	mg/L	0.06355	1.77%
Be 313.107	366.1	0.0000	mg/L	0.00010	0.0000	mg/L	0.00010	295.48%

Co 228.616	22406.5	0.3326 mg/L	0.00133	0.3326 mg/L	0.00133	0.40%
Cr 267.716	709719.0	1.5258 mg/L	0.02973	1.5258 mg/L	0.02973	1.95%
Cu 324.752	515594.1	0.8216 mg/L	0.01813	0.8216 mg/L	0.01813	2.21%
Fe 273.955	331151335.5	503.30 mg/L	0.307	503.30 mg/L	0.307	0.06%
Mg 279.077	12930561.9	228.32 mg/L	0.168	228.32 mg/L	0.168	0.07%
Mn 257.610	6213554.2	14.714 mg/L	0.0069	14.714 mg/L	0.0069	0.05%
Ni 231.604	76898.4	0.9051 mg/L	0.00798	0.9051 mg/L	0.00798	0.88%
Pb 220.353	5369.2	0.2375 mg/L	0.00135	0.2375 mg/L	0.00135	0.57%
Sb 206.836	50.0	0.0329 mg/L	0.00551	0.0329 mg/L	0.00551	16.72%
Se 196.026	-561.5	-0.0379 mg/L	0.00218	-0.0379 mg/L	0.00218	5.75%
Tl 190.801	-265.9	-0.0069 mg/L	0.00785	-0.0069 mg/L	0.00785	113.96%
V 292.402	667691.6	1.3840 mg/L	0.02826	1.3840 mg/L	0.02826	2.04%
Zn 206.200	208205.6	1.5003 mg/L	0.00689	1.5003 mg/L	0.00689	0.46%
Na 330.237	-6630.9	-1.5013 mg/L	0.03666	-1.5013 mg/L	0.03666	2.44%
Cd 226.502	17295.7	0.0168 mg/L	0.00074	0.0168 mg/L	0.00074	4.41%
Ti 334.940	Saturated2 Saturated in preshot (code 2)					
Ca 227.546	73764.9	73.718 mg/L	0.7044	73.718 mg/L	0.7044	0.96%

Sequence No.: 57
Sample ID: A1905-28ADUP,4954
Analyst:
Sample Wt: 1.088
Dilution:

Autosampler Location: 52
Date Collected: 12/31/2002 12:34:25 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1905-28ADUP,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-53515.0	-0.0090	mg/L	0.00120	-0.0090	mg/L	0.00120	13.32%
Al 308.215	29229107.7	442.66	mg/L	0.833	442.66	mg/L	0.833	0.19%
As 188.979	270.3	0.1869	mg/L	0.00071	0.1869	mg/L	0.00071	0.38%
Ba 233.527	530656.4	4.6282	mg/L	0.05113	4.6282	mg/L	0.05113	1.10%
Be 313.107	-23484.8	-0.0021	mg/L	0.00013	-0.0021	mg/L	0.00013	6.35%
Co 228.616	25177.7	0.3739	mg/L	0.00297	0.3739	mg/L	0.00297	0.79%
Cr 267.716	785581.6	1.6888	mg/L	0.01647	1.6888	mg/L	0.01647	0.98%
Cu 324.752	607349.2	0.9630	mg/L	0.01100	0.9630	mg/L	0.01100	1.14%
Fe 273.955	36433663.2	553.74	mg/L	0.029	553.74	mg/L	0.029	0.01%
Mg 279.077	14964695.1	264.24	mg/L	0.105	264.24	mg/L	0.105	0.04%
Mn 257.610	7093528.8	16.798	mg/L	0.0025	16.798	mg/L	0.0025	0.01%
Ni 231.604	82851.6	0.9751	mg/L	0.00069	0.9751	mg/L	0.00089	0.09%
Pb 220.353	6175.1	0.2732	mg/L	0.00148	0.2732	mg/L	0.00148	0.54%
Sb 206.836	53.8	0.0361	mg/L	0.00688	0.0361	mg/L	0.00688	19.03%
Se 196.026	-664.1	-0.0558	mg/L	0.00148	-0.0558	mg/L	0.00148	2.66%
Tl 190.801	-328.7	-0.0157	mg/L	0.01283	-0.0157	mg/L	0.01283	81.84%
V 292.402	771793.8	1.5999	mg/L	0.01585	1.5999	mg/L	0.01585	0.99%
Zn 206.200	236208.4	1.7019	mg/L	0.00957	1.7019	mg/L	0.00957	0.56%
Na 330.237	-7440.8	-1.7121	mg/L	0.02433	-1.7121	mg/L	0.02433	1.42%
Cd 226.502	19921.7	0.0204	mg/L	0.00044	0.0204	mg/L	0.00044	2.16%
Ti 334.940	Saturated2 Saturated in preshot (code 2)							
Ca 227.546	84888.0	85.059	mg/L	0.6678	85.059	mg/L	0.6678	0.79%

Sequence No.: 58
Sample ID: CCV4
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/31/2002 12:37:19 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV4

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	572245.4	1.1816	mg/L	0.00615	1.1816	mg/L	0.00615	0.52%
Al 308.215	648658.1	9.8236	mg/L	0.05152	9.8236	mg/L	0.05152	0.52%
As 188.979	1388.6	0.5517	mg/L	0.00148	0.5517	mg/L	0.00148	0.27%
Ba 233.527	1250307.5	10.963	mg/L	0.0225	10.963	mg/L	0.0225	0.21%
Be 313.107	2779399.4	0.2471	mg/L	0.00013	0.2471	mg/L	0.00013	0.05%
Co 228.616	159048.0	2.4004	mg/L	0.00733	2.4004	mg/L	0.00733	0.31%

Cr 267.716	463138.4	0.9933 mg/L	0.00216	0.9933 mg/L	0.00216	0.22%
Cu 324.752	828206.9	1.2335 mg/L	0.00688	1.2335 mg/L	0.00688	0.56%
Fe 273.955	337262.7	5.1259 mg/L	0.03039	5.1259 mg/L	0.03039	0.59%
Mg 279.077	1430908.2	25.272 mg/L	0.0002	25.272 mg/L	0.0002	0.00%
Mn 257.610	1174577.3	2.7799 mg/L	0.00509	2.7799 mg/L	0.00509	0.18%
Ni 231.604	231620.2	2.7300 mg/L	0.00055	2.7300 mg/L	0.00055	0.02%
Pb 220.353	13888.4	0.5259 mg/L	0.00137	0.5259 mg/L	0.00137	0.26%
Sb 206.836	2799.5	0.5021 mg/L	0.00250	0.5021 mg/L	0.00250	0.50%
Se 196.026	1647.7	0.4853 mg/L	0.00209	0.4853 mg/L	0.00209	0.43%
Tl 190.801	1823.8	0.5140 mg/L	0.00148	0.5140 mg/L	0.00148	0.27%
V 292.402	1209140.1	2.5086 mg/L	0.00695	2.5086 mg/L	0.00695	0.28%
Zn 206.200	345528.6	2.5140 mg/L	0.00497	2.5140 mg/L	0.00497	0.20%
Na 330.237	70986.8	23.583 mg/L	0.1630	23.583 mg/L	0.1630	0.69%
Cd 226.502	120268.5	0.2530 mg/L	0.00075	0.2530 mg/L	0.00075	0.30%
Ti 334.940	6228.4	0.0042 mg/L	0.00132	0.0042 mg/L	0.00132	31.82%
Ca 227.546	22825.5	23.950 mg/L	0.0722	23.950 mg/L	0.0722	0.30%

Sequence No.: 59
Sample ID: CCB4
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 12/31/2002 12:41:30 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB4

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-1157.2	-0.0024	mg/L	0.00011	-0.0024	mg/L	0.00011	4.43%
Al 308.215	1061.2	0.0161	mg/L	0.00063	0.0161	mg/L	0.00063	3.91%
As 188.979	4.4	0.0017	mg/L	0.00046	0.0017	mg/L	0.00046	27.01%
Ba 233.527	93.9	0.0008	mg/L	0.00016	0.0008	mg/L	0.00016	19.32%
Be 313.107	322.7	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	65.36%
Co 228.616	18.3	0.0003	mg/L	0.00004	0.0003	mg/L	0.00004	12.86%
Cr 267.716	38.5	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	18.39%
Cu 324.752	1266.1	0.0019	mg/L	0.00033	0.0019	mg/L	0.00033	17.47%
Fe 273.955	618.3	0.0094	mg/L	0.00169	0.0094	mg/L	0.00169	18.03%
Mg 279.077	53.0	0.0009	mg/L	0.00175	0.0009	mg/L	0.00175	186.41%
Mn 257.610	253.6	0.0006	mg/L	0.00006	0.0006	mg/L	0.00006	9.51%
Ni 231.604	-13.5	-0.0002	mg/L	0.00056	-0.0002	mg/L	0.00056	352.20%
Pb 220.353	-20.6	-0.0008	mg/L	0.00003	-0.0008	mg/L	0.00003	3.86%
Sb 206.836	2.4	0.0004	mg/L	0.00090	0.0004	mg/L	0.00090	208.79%
Se 196.026	-4.5	-0.0013	mg/L	0.00073	-0.0013	mg/L	0.00073	55.14%
Tl 190.801	0.4	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	0.38%
V 292.402	41.6	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	12.47%
Zn 206.200	435.0	0.0032	mg/L	0.00050	0.0032	mg/L	0.00050	15.67%
Na 330.237	223.4	0.0744	mg/L	0.00697	0.0744	mg/L	0.00697	9.37%
Cd 226.502	-30.9	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	24.08%
Ti 334.940	511.0	0.0003	mg/L	0.00004	0.0003	mg/L	0.00004	12.44%
Ca 227.546	6.1	0.0064	mg/L	0.00238	0.0064	mg/L	0.00238	37.29%

Sequence No.: 60
Sample ID: A1905-28AMS,4954
Analyst:
Sample Wt: 1.088
Dilution:

Autosampler Location: 53
Date Collected: 12/31/2002 12:45:33 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1905-28AMS,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	428154.5	0.9820	mg/L	0.00646	0.9820	mg/L	0.00646	0.66%
Al 308.215	27669061.3	419.03	mg/L	0.088	419.03	mg/L	0.088	0.02%
As 188.979	1284.6	0.5876	mg/L	0.00277	0.5876	mg/L	0.00277	0.47%
Ba 233.527	1414901.3	12.383	mg/L	0.1029	12.383	mg/L	0.1029	0.83%
Be 313.107	2318718.5	0.2061	mg/L	0.00016	0.2061	mg/L	0.00016	0.08%
Co 228.616	145652.6	2.1923	mg/L	0.00049	2.1923	mg/L	0.00049	0.02%
Cr 267.716	1113499.6	2.3921	mg/L	0.01840	2.3921	mg/L	0.01846	0.77%
Cu 324.752	1308200.9	2.0059	mg/L	0.01567	2.0059	mg/L	0.01567	0.78%
Fe 273.955	35458409.8	538.92	mg/L	0.701	538.92	mg/L	0.701	0.13%

Mg 279.077	15358436.0	271.19 mg/L	0.484	271.19 mg/L	0.484	0.18%
Mn 257.610	7525700.7	17.820 mg/L	0.0035	17.820 mg/L	0.0035	0.02%
Ni 231.604	253321.7	2.9845 mg/L	0.02551	2.9845 mg/L	0.02551	0.85%
Pb 220.353	16765.4	0.6718 mg/L	0.00559	0.6718 mg/L	0.00559	0.83%
Sb 206.836	735.7	0.1595 mg/L	0.00612	0.1595 mg/L	0.00612	3.84%
Se 196.026	536.9	0.2935 mg/L	0.01368	0.2935 mg/L	0.01368	4.66%
Tl 190.801	1062.5	0.3718 mg/L	0.00994	0.3718 mg/L	0.00994	2.67%
V 292.402	1676602.9	3.4771 mg/L	0.03176	3.4771 mg/L	0.03176	0.91%
Zn 206.200	482697.3	3.4961 mg/L	0.02009	3.4961 mg/L	0.02009	0.57%
Na 330.237	58660.3	20.234 mg/L	0.1379	20.234 mg/L	0.1379	0.68%
Cd 226.502	109935.7	0.2195 mg/L	0.00122	0.2195 mg/L	0.00122	0.58%
Ti 334.940	Saturated2 Saturated in preshot (code 2)					
Ca 227.546	96361.1	97.199 mg/L	0.2529	97.199 mg/L	0.2529	0.26%

Sequence No.: 61
Sample ID: A1905-28ASD,4954
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 54
Date Collected: 12/31/2002 12:48:34 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1905-28ASD,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-11248.1	0.0009	mg/L	0.00011	0.0009	mg/L	0.00011	12.45%
Al 308.215	5483782.8	83.048	mg/L	0.1126	83.048	mg/L	0.1126	0.14%
As 188.979	59.9	0.0447	mg/L	0.00348	0.0447	mg/L	0.00348	7.79%
Ba 233.527	91529.8	0.7967	mg/L	0.00451	0.7967	mg/L	0.00451	0.57%
Be 313.107	1515.1	0.0063	mg/L	0.00001	0.0063	mg/L	0.00001	0.12%
Co 228.616	5080.7	0.0669	mg/L	0.00106	0.0669	mg/L	0.00106	1.59%
Cr 267.716	155311.0	0.3341	mg/L	0.00157	0.3341	mg/L	0.00157	0.47%
Cu 324.752	105526.4	0.1667	mg/L	0.00139	0.1667	mg/L	0.00139	0.83%
Fe 273.955	8644785.7	131.39	mg/L	0.169	131.39	mg/L	0.169	0.13%
Mg 279.077	2795701.0	49.366	mg/L	0.1992	49.366	mg/L	0.1992	0.40%
Mn 257.610	1434751.4	3.3979	mg/L	0.02884	3.3979	mg/L	0.02884	0.85%
Ni 231.604	17622.9	0.2057	mg/L	0.00058	0.2057	mg/L	0.00058	0.28%
Pb 220.353	1239.8	0.0583	mg/L	0.00041	0.0583	mg/L	0.00041	0.70%
Sb 206.836	28.8	0.0158	mg/L	0.00116	0.0158	mg/L	0.00116	7.34%
Se 196.026	-132.9	-0.0065	mg/L	0.00448	-0.0065	mg/L	0.00448	68.95%
Tl 190.801	-58.6	0.0093	mg/L	0.00981	0.0093	mg/L	0.00981	105.56%
V 292.402	143646.1	0.2946	mg/L	0.00190	0.2946	mg/L	0.00190	0.64%
Zn 206.200	48013.8	0.3403	mg/L	0.00079	0.3403	mg/L	0.00079	0.23%
Na 330.237	-1118.7	1.3662	mg/L	0.07031	1.3662	mg/L	0.07031	5.15%
Cd 226.502	3522.1	0.0023	mg/L	0.00005	0.0023	mg/L	0.00005	2.00%
Ti 334.940	8962712.8	5.9732	mg/L	0.01346	5.9732	mg/L	0.01346	0.23%
Ca 227.546	15324.3	15.083	mg/L	0.1236	15.083	mg/L	0.1236	0.82%

Sequence No.: 62
Sample ID: A1905-28APDS,4954
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 55
Date Collected: 12/31/2002 12:51:12 PM

Sample Prep Volume:
Data Type: Original

Mean Data: A1905-28APDS,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	488195.4	1.0973	mg/L	0.00931	1.0973	mg/L	0.00931	0.85%
Al 308.215	24986447.9	378.41	mg/L	2.006	378.41	mg/L	2.006	0.53%
As 188.979	2371.9	0.9152	mg/L	0.0052	0.9152	mg/L	0.0052	0.56%
Ba 233.527	1379223.6	12.072	mg/L	0.1029	12.072	mg/L	0.1029	0.85%
Be 313.107	2332495.6	0.2073	mg/L	0.00126	0.2073	mg/L	0.00126	0.61%
Co 228.616	145415.0	2.1892	mg/L	0.00078	2.1892	mg/L	0.00078	0.04%
Cr 267.716	1066671.7	2.2913	mg/L	0.01662	2.2913	mg/L	0.01662	0.73%
Cu 324.752	1257745.7	1.9261	mg/L	0.01663	1.9261	mg/L	0.01663	0.86%
Fe 273.955	32388798.0	492.26	mg/L	2.297	492.26	mg/L	2.297	0.47%
Mg 279.077	13721987.2	242.30	mg/L	1.268	242.30	mg/L	1.268	0.52%
Mn 257.610	6836894.7	16.189	mg/L	0.1079	16.189	mg/L	0.1079	0.67%

Ni 231.604	257530.6	3.0342 mg/L	0.02028	3.0342 mg/L	0.02028	0.67%
Pb 220.353	16219.2	0.6477 mg/L	0.00210	0.6477 mg/L	0.00210	0.32%
Sb 206.836	2317.4	0.4390 mg/L	0.00021	0.4390 mg/L	0.00021	0.05%
Se 196.026	719.3	0.3357 mg/L	0.01166	0.3357 mg/L	0.01166	3.47%
Tl 190.801	1145.1	0.3873 mg/L	0.01441	0.3873 mg/L	0.01441	3.72%
V 292.402	1648517.2	3.4190 mg/L	0.02614	3.4190 mg/L	0.02614	0.76%
Zn 206.200	469573.8	3.4025 mg/L	0.01829	3.4025 mg/L	0.01829	0.54%
Na 330.237	59563.3	20.469 mg/L	0.0966	20.469 mg/L	0.0966	0.47%
Cd 226.502	110678.1	0.2139 mg/L	0.00040	0.2139 mg/L	0.00040	0.19%
Ti 334.940	Saturated2					
Saturated in presbot (code 2)						
Ca 227.546	90854.7	91.766 mg/L	0.2229	91.766 mg/L	0.2229	0.24%

Sequence No.: 63
Sample ID: ICSA1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 12/31/2002 12:53:52 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSA1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-13249.4	-0.0066	mg/L	0.00046	-0.0066	mg/L	0.00046	6.89%
Al 308.215	31159045.3	471.89	mg/L	1.896	471.89	mg/L	1.896	0.40%
As 188.979	-23.7	0.0104	mg/L	0.00431	0.0104	mg/L	0.00431	41.53%
Ba 233.527	1198.4	0.0015	mg/L	0.00025	0.0015	mg/L	0.00025	16.04%
Be 313.107	174.8	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	3.34%
Co 228.616	-6.5	-0.0010	mg/L	0.00034	-0.0010	mg/L	0.00034	33.65%
Cr 267.716	-661.5	0.0007	mg/L	0.00005	0.0007	mg/L	0.00005	6.43%
Cu 324.752	-9491.6	0.0077	mg/L	0.00016	0.0077	mg/L	0.00016	2.09%
Fe 273.955	11100800.6	168.72	mg/L	0.543	168.72	mg/L	0.543	0.32%
Mg 279.077	26382570.3	465.69	mg/L	1.384	465.69	mg/L	1.384	0.30%
Mn 257.610	-1171.9	-0.0041	mg/L	0.00010	-0.0041	mg/L	0.00010	2.50%
Ni 231.604	-63.3	-0.0007	mg/L	0.00031	-0.0007	mg/L	0.00031	41.93%
Pb 220.353	-935.7	0.0014	mg/L	0.00062	0.0014	mg/L	0.00062	44.59%
Sb 206.836	59.7	0.0205	mg/L	0.00116	0.0205	mg/L	0.00116	5.66%
Se 196.026	-134.7	0.0093	mg/L	0.01186	0.0093	mg/L	0.01186	126.96%
Tl 190.801	13.2	0.0011	mg/L	0.00299	0.0011	mg/L	0.00299	264.07%
V 292.402	-140.7	-0.0017	mg/L	0.00016	-0.0017	mg/L	0.00016	9.25%
Zn 206.200	2892.6	-0.0030	mg/L	0.00029	-0.0030	mg/L	0.00029	9.88%
Na 330.237	1324.4	0.2103	mg/L	0.02292	0.2103	mg/L	0.02292	10.90%
Cd 226.502	4734.4	0.0034	mg/L	0.00011	0.0034	mg/L	0.00011	3.17%
Ti 334.940	12607.6	0.0118	mg/L	0.00039	0.0118	mg/L	0.00035	2.93%
Ca 227.546	463400.9	488.65	mg/L	5.270	488.65	mg/L	5.270	1.08%

Sequence No.: 64
Sample ID: ICSAB1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 12/31/2002 12:56:31 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	76296.3	0.1770	mg/L	0.00012	0.1770	mg/L	0.00012	0.07%
Al 308.215	29422349.6	445.59	mg/L	5.271	445.59	mg/L	5.271	1.18%
As 188.979	237.6	0.1154	mg/L	0.00333	0.1154	mg/L	0.00333	2.89%
Ba 233.527	56787.4	0.4903	mg/L	0.00249	0.4903	mg/L	0.00249	0.51%
Be 313.107	5160689.5	0.4588	mg/L	0.00353	0.4588	mg/L	0.00353	0.77%
Co 228.616	26527.0	0.3994	mg/L	0.00057	0.3994	mg/L	0.00057	0.14%
Cr 267.716	204987.7	0.4416	mg/L	0.00133	0.4416	mg/L	0.00133	0.30%
Cr 324.752	307359.0	0.4789	mg/L	0.00320	0.4789	mg/L	0.00320	0.67%
Fe 273.955	10471144.0	159.15	mg/L	0.998	159.15	mg/L	0.998	0.63%
Mg 279.077	24783064.3	437.46	mg/L	1.990	437.46	mg/L	1.990	0.45%
Mn 257.610	208577.6	0.4925	mg/L	0.00381	0.4925	mg/L	0.00381	0.77%
Ni 231.604	76595.9	0.9028	mg/L	0.00820	0.9028	mg/L	0.00820	0.91%
Pb 220.353	10920.4	0.4474	mg/L	0.00095	0.4474	mg/L	0.00095	0.21%

002022

Sb 206.836	3112.3	0.5638 mg/L	0.00092	0.5638 mg/L	0.00092	0.16%
Se 196.026	1495.1	0.4875 mg/L	0.01507	0.4875 mg/L	0.01507	3.09%
Tl 190.801	331.8	0.0910 mg/L	0.00663	0.0910 mg/L	0.00663	7.29%
V 292.402	219409.4	0.4544 mg/L	0.00180	0.4544 mg/L	0.00180	0.40%
Zn 206.200	116505.2	0.8258 mg/L	0.00294	0.8258 mg/L	0.00294	0.36%
Na 330.237	144419.3	47.841 mg/L	0.2964	47.841 mg/L	0.2964	0.62%
Cd 226.502	412181.5	0.8595 mg/L	0.00171	0.8595 mg/L	0.00171	0.20%
Ti 334.940	10254.2	0.0100 mg/L	0.00004	0.0100 mg/L	0.00004	0.36%
Ca 227.546	637171.6	460.96 mg/L	2.460	460.96 mg/L	2.460	0.53%

Analysis Begun

Start Time: 12/31/2002 12:59:00 PM
Logged In Analyst: optima2
Spectrometer Model: Optima 3100 XL

Plasma On Time: 12/31/2002 8:03:09 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\pe\administrator\Sample Information\KMG.sif
Results Data Set: A123101
Results Library: d:\pe\administrator\Results\Results.mdb

Sequence No.: 65
Sample ID: CCV5
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 12/31/2002 12:59:00 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV5

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	555480.1	1.1470	mg/L	0.01009	1.1470	mg/L	0.01009	0.88%
Al 308.215	638851.1	9.5994	mg/L	0.07332	9.5994	mg/L	0.07332	0.76%
As 188.979	1385.2	0.5501	mg/L	0.00306	0.5501	mg/L	0.00306	0.56%
Ba 233.527	1228053.4	10.768	mg/L	0.0303	10.768	mg/L	0.0303	0.28%
Be 313.107	2749117.1	0.2444	mg/L	0.00244	0.2444	mg/L	0.00244	1.00%
Co 228.616	155415.3	2.3455	mg/L	0.01535	2.3455	mg/L	0.01535	0.65%
Cr 267.716	453114.6	0.9718	mg/L	0.00404	0.9718	mg/L	0.00404	0.42%
Cu 324.752	809952.8	1.2063	mg/L	0.00840	1.2063	mg/L	0.00840	0.70%
Fe 273.955	331050.2	5.0315	mg/L	0.02528	5.0315	mg/L	0.02528	0.50%
Mg 279.077	1405812.6	24.829	mg/L	0.0477	24.829	mg/L	0.0477	0.19%
Mn 257.610	1157599.6	2.7397	mg/L	0.00019	2.7397	mg/L	0.00019	0.01%
Ni 231.604	228711.1	2.6957	mg/L	0.00184	2.6957	mg/L	0.00184	0.07%
Pb 220.353	13792.9	0.5223	mg/L	0.00157	0.5223	mg/L	0.00157	0.30%
Sb 206.836	2767.9	0.4964	mg/L	0.00089	0.4964	mg/L	0.00089	0.18%
Se 196.026	1639.2	0.4829	mg/L	0.00004	0.4829	mg/L	0.00004	0.01%
Tl 190.801	1809.1	0.5098	mg/L	0.00223	0.5098	mg/L	0.00223	0.44%
V 292.402	1185596.8	2.4598	mg/L	0.01151	2.4598	mg/L	0.01151	0.47%
Zn 206.200	340594.7	2.4781	mg/L	0.00424	2.4781	mg/L	0.00424	0.17%
Na 330.237	69039.4	22.934	mg/L	0.2765	22.934	mg/L	0.2765	1.21%
Cd 226.502	117827.6	0.2478	mg/L	0.00082	0.2478	mg/L	0.00082	0.33%
Ti 334.940	3912.1	0.0026	mg/L	0.00021	0.0026	mg/L	0.00021	7.93%
Ca 227.546	22697.6	23.818	mg/L	0.0368	23.818	mg/L	0.0368	0.15%

Sequence No.: 66
Sample ID: CCB5
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 12/31/2002 1:03:11 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB5

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-1252.2	-0.0026	mg/L	0.00014	-0.0026	mg/L	0.00014	5.51%
Al 308.215	1313.4	0.0199	mg/L	0.00083	0.0199	mg/L	0.00083	4.17%
As 188.979	4.6	0.0018	mg/L	0.00044	0.0018	mg/L	0.00044	24.35%
Ba 233.527	97.5	0.0009	mg/L	0.00014	0.0009	mg/L	0.00014	16.01%
Be 313.107	455.9	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	4.20%

002023

Co 228.616	14.8	0.0002 mg/L	0.00000	0.0002 mg/L	0.00000	2.13%
Cr 267.716	83.0	0.0002 mg/L	0.00008	0.0002 mg/L	0.00008	42.84%
Cu 324.752	1397.7	0.0021 mg/L	0.00067	0.0021 mg/L	0.00067	32.29%
Fe 273.955	619.8	0.0094 mg/L	0.00125	0.0094 mg/L	0.00125	13.26%
Mg 279.077	308.4	0.0054 mg/L	0.00389	0.0054 mg/L	0.00389	71.47%
Mn 257.610	245.7	0.0006 mg/L	0.00002	0.0006 mg/L	0.00002	3.47%
Ni 231.604	-38.0	-0.0004 mg/L	0.00017	-0.0004 mg/L	0.00017	38.27%
Pb 220.353	-18.2	-0.0007 mg/L	0.00033	-0.0007 mg/L	0.00033	47.61%
Sb 206.836	4.1	0.0007 mg/L	0.00015	0.0007 mg/L	0.00015	21.17%
Se 196.026	-2.8	-0.0008 mg/L	0.00147	-0.0008 mg/L	0.00147	180.75%
Tl 190.801	3.6	0.0010 mg/L	0.00040	0.0010 mg/L	0.00040	39.16%
V 292.402	2.7	0.0000 mg/L	0.00005	0.0000 mg/L	0.00005	798.85%
Zn 206.200	529.2	0.0039 mg/L	0.00069	0.0039 mg/L	0.00069	18.02%
Na 330.237	341.1	0.1136 mg/L	0.08754	0.1136 mg/L	0.08754	77.06%
Cd 226.502	-27.6	-0.0001 mg/L	0.00000	-0.0001 mg/L	0.00000	0.18%
Ti 334.940	314.1	0.0002 mg/L	0.00005	0.0002 mg/L	0.00005	22.78%
Ca 227.546	6.2	0.0065 mg/L	0.00204	0.0065 mg/L	0.00204	31.42%

002024

Analysis Begun

Start Time: 1/3/03 1:01:13 PM
Logged In Analyst: Optimal
Spectrometer Model: Optima 3000 DV

Plasma On Time: 1/3/03 10:19:26 AM
Technique: ICP Continuous
Autosampler Model: AS-90

Sample Information File: D:\pe\administrator\Sample Information\Evan.sif
Results Data Set: 010303
Results Library: D:\pe\administrator\Results\Results.mdb

Method Loaded
Method Name: K 6010
IEC File:
Method Description: K 6010

Method Last Saved: 8/2/02 2:39:56 PM
MSF File:

Sequence No.: 1
Sample ID: S0
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 1/3/03 1:01:13 PM

Sample Prep Volume:
Data Type: Original

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
K 766.490	219.7	24.21	11.02%	[0.00]	mg/L

Sequence No.: 2
Sample ID: S1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 1/3/03 1:03:28 PM

Sample Prep Volume:
Data Type: Original

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
K 766.490	49673.5	40.50	0.08%	[50]	mg/L

Sequence No.: 3
Sample ID: S2
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 1/3/03 1:05:45 PM

Sample Prep Volume:
Data Type: Original

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
K 766.490	23974.9	475.83	1.98%	[25]	mg/L

Sequence No.: 4
Sample ID: S3
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 1/3/03 1:08:00 PM

Sample Prep Volume:
Data Type: Original

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
K 766.490	503.6	63.16	12.54%	[0.5]	mg/L

002025

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
K 766.490	3	Lin Thru 0	0.0	986.6	0.00000	0.999902	

Sequence No.: 5
Sample ID: CHECK
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 2
Date Collected: 1/3/03 1:10:17 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CHECK

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	49562.3	50.237	mg/L	0.0309	50.237	mg/L	0.0309	0.06%

Sequence No.: 6
Sample ID: LRA
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 16
Date Collected: 1/3/03 1:12:34 PM
Sample Prep Volume:
Data Type: Original

Mean Data: LRA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	215836.5	218.77	mg/L	0.122	218.77	mg/L	0.122	0.06%

Sequence No.: 7
Sample ID: ICV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 1/3/03 1:14:57 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	24294.7	24.625	mg/L	0.2328	24.625	mg/L	0.2328	0.95%

Sequence No.: 8
Sample ID: ICB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 1/3/03 1:17:14 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	264.8	0.2684	mg/L	0.01953	0.2684	mg/L	0.01953	7.28%

Sequence No.: 9
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 5
Date Collected: 1/3/03 1:19:33 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	460.3	0.4666	mg/L	0.01104	0.4666	mg/L	0.01104	2.37%

Sequence No.: 10
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 6
Date Collected: 1/3/03 1:21:52 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	26464.5	26.825	mg/L	0.1731	26.825	mg/L	0.1731	0.65%

Sequence No.: 11
Sample ID: MB-4955,4955
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 17
Date Collected: 1/3/03 1:24:13 PM
Sample Prep Volume:
Data Type: Original

Mean Data: MB-4955,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	105.3	0.1067	mg/L	0.04291	0.1067	mg/L	0.04291	40.21%

Sequence No.: 12
Sample ID: LCS-4955,4955
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 18
Date Collected: 1/3/03 1:26:28 PM
Sample Prep Volume:
Data Type: Original

Mean Data: LCS-4955,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	21517.3	21.810	mg/L	0.1366	21.810	mg/L	0.1366	0.63%

Sequence No.: 13
Sample ID: A1905-14B,4955
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 19
Date Collected: 1/3/03 1:28:43 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-14B,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	769.4	0.7798	mg/L	0.04737	0.7798	mg/L	0.04737	6.07%

Sequence No.: 14
Sample ID: A1905-26A,4955
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 24
Date Collected: 1/3/03 1:30:59 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-26A,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	43.1	0.0437	mg/L	0.04616	0.0437	mg/L	0.04616	105.73%

Sequence No.: 15
Sample ID: MB-4917,4917
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 25
Date Collected: 1/3/03 1:33:18 PM
Sample Prep Volume:
Data Type: Original

Mean Data: MB-4917,4917

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	2.0	0.0020	mg/L	0.06060	0.0020	mg/L	0.06060	>999.9%

Sequence No.: 16
Sample ID: LCS-4917,4917
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 26
Date Collected: 1/3/03 1:35:37 PM
Sample Prep Volume:
Data Type: Original

Mean Data: LCS-4917,4917

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	21771.4	22.068	mg/L	0.0478	22.068	mg/L	0.0478	0.22%

Sequence No.: 17
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 1/3/03 1:37:56 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	23973.2	24.299	mg/L	0.5042	24.299	mg/L	0.5042	2.07%

Sequence No.: 18
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 1/3/03 1:40:14 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	2.2	0.0023	mg/L	0.00821	0.0023	mg/L	0.00821	362.51%

Sequence No.: 19
Sample ID: A1905-07A,4917
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 27
Date Collected: 1/3/03 1:42:33 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-07A,4917

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	37.5	0.0380	mg/L	0.02312	0.0380	mg/L	0.02312	60.81%

Sequence No.: 20
Sample ID: A1905-08A,4917
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 28
Date Collected: 1/3/03 1:44:52 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-08A,4917

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	-17.3	-0.0175	mg/L	0.06700	-0.0175	mg/L	0.06700	382.54%

Sequence No.: 21
Sample ID: A1905-10A,4917
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 29
Date Collected: 1/3/03 1:47:13 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-10A,4917

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	-47.2	-0.0479	mg/L	0.01039	-0.0479	mg/L	0.01039	21.50%

Sequence No.: 22
Sample ID: MB-4916,4916
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 30
Date Collected: 1/3/03 1:49:34 PM
Sample Prep Volume:
Data Type: Original

Mean Data: MB-4916,4916

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	5.2	0.0052	mg/L	0.04448	0.0052	mg/L	0.04448	851.50%

Sequence No.: 23
Sample ID: LCS-4916,4916
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 31
Date Collected: 1/3/03 1:51:55 PM
Sample Prep Volume:
Data Type: Original

Mean Data: LCS-4916,4916

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	21755.1	22.051	mg/L	0.1850	22.051	mg/L	0.1850	0.84%

Sequence No.: 24
Sample ID: A1905-06C,4916
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 32
Date Collected: 1/3/03 1:54:17 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-06C,4916

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	73707.4	74.710	mg/L	0.1662	74.710	mg/L	0.1662	0.22%

Sequence No.: 25
Sample ID: MB-4954,4954
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 33
Date Collected: 1/3/03 1:56:32 PM
Sample Prep Volume:
Data Type: Original

Mean Data: MB-4954,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	102.3	0.1037	mg/L	0.03711	0.1037	mg/L	0.03711	35.79%

Sequence No.: 26
Sample ID: LCS-4954,4954
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 34
Date Collected: 1/3/03 1:58:47 PM
Sample Prep Volume:
Data Type: Original

Mean Data: LCS-4954,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	21103.2	21.390	mg/L	0.1570	21.390	mg/L	0.1570	0.73%

Sequence No.: 27
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 1/3/03 2:01:02 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	23564.7	23.885	mg/L	0.0502	23.885	mg/L	0.0502	0.21%

Sequence No.: 28
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 1/3/03 2:03:20 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	50.8	0.0515	mg/L	0.08076	0.0515	mg/L	0.08076	156.75%

Sequence No.: 29
Sample ID: A1905-15C,4954 1:2.5
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 35
Date Collected: 1/3/03 2:05:38 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-15C,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	17000.8	17.232	mg/L	0.0609	17.232	mg/L	0.0609	0.35%

Sequence No.: 30
Sample ID: A1905-28A,4954 1:20
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 36
Date Collected: 1/3/03 2:07:54 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-28A,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	154724.3	156.83	mg/L	1.438	156.83	mg/L	1.438	0.92%

Sequence No.: 31
Sample ID: A1905-28ADUP,4954 1:25
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 37
Date Collected: 1/3/03 2:10:12 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-28ADUP,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	151737.0	153.80	mg/L	1.941	153.80	mg/L		

Sequence No.: 32
Sample ID: A1905-28ASD,4954
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 39
Date Collected: 1/3/03 2:12:29 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-28ASD,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	28399.6	28.786	mg/L	0.0659	28.786	mg/L	0.0659	0.23%

Sequence No.: 33
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 5
Date Collected: 1/3/03 2:14:46 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	427.7	0.4335	mg/L	0.02470	0.4335	mg/L	0.02470	5.70%

Sequence No.: 34
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 6
Date Collected: 1/3/03 2:17:06 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	26689.7	27.053	mg/L	0.0613	27.053	mg/L	0.0613	0.23%

Sequence No.: 35
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 1/3/03 2:19:27 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	23674.8	23.997	mg/L	0.1780	23.997	mg/L	0.1780	0.74%

Sequence No.: 36
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 1/3/03 2:21:44 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
K 766.490	46.7	0.0474	mg/L	0.02539	0.0474	mg/L	0.02539	53.60%

Analysis Begun

Start Time: 12/31/2002 1:07:47 PM
Logged In Analyst: optima2
Spectrometer Model: Optima 3100 XL
Plasma On Time: 12/31/2002 8:03:09 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\pe\administrator\Sample Information\SN_6010.sif
Results Data Set: A123102
Results Library: d:\pe\administrator\Results\Results.mdb

Method Loaded
Method Name: MOSN 6010
IEC File:
Method Description: Working method
Method Last Saved: 12/31/2002 12:34:03 PM
MSF File:

Sequence No.: 1
Sample ID: S0
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 12/31/2002 1:07:47 PM
Sample Prep Volume:
Data Type: Original

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Sn 242.170	-744.2	82.50	11.09%	[0.00]	mg/L

Sequence No.: 2
Sample ID: S1
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 9
Date Collected: 12/31/2002 1:10:05 PM
Sample Prep Volume:
Data Type: Original

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Sn 242.170	16824.5	342.66	2.04%	[2.0]	mg/L

Sequence No.: 3
Sample ID: S2
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 10
Date Collected: 12/31/2002 1:12:23 PM
Sample Prep Volume:
Data Type: Original

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Sn 242.170	8566.1	105.84	1.24%	[1.0]	mg/L

Sequence No.: 4
Sample ID: S3
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 11
Date Collected: 12/31/2002 1:14:41 PM
Sample Prep Volume:
Data Type: Original

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Sn 242.170	263.8	86.98	32.98%	[0.02]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Sn 242.170	3	Lin Thru 0	0.0	8443	0.00000	0.999961	

Sequence No.: 5
Sample ID: CHECK
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 9
Date Collected: 12/31/2002 1:17:00 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CHECK

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sn 242.170	16382.8	1.9403	mg/L	0.02053	1.9403	mg/L	0.02053	1.06%

Sequence No.: 6
Sample ID: ICV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 12/31/2002 1:19:17 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sn 242.170	8174.5	0.9682	mg/L	0.01416	0.9682	mg/L	0.01416	1.46%

Sequence No.: 7
Sample ID: ICB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 12/31/2002 1:21:37 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sn 242.170	194.3	0.0230	mg/L	0.01561	0.0230	mg/L	0.01561	67.85%

Sequence No.: 8
Sample ID: ICSA0
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 5
Date Collected: 12/31/2002 1:23:58 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSA0

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sn 242.170	-6279.5	-0.7437	mg/L	0.02014	-0.7437	mg/L	0.02014	2.71%

Sequence No.: 9
Sample ID: ICSAB0
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 6
Date Collected: 12/31/2002 1:26:19 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB0

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sn 242.170	-6069.1	-0.7188	mg/L	0.03567	-0.7188	mg/L	0.03567	4.96%

Sequence No.: 10
Sample ID: MB4955,4955
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 17
Date Collected: 12/31/2002 1:28:42 PM
Sample Prep Volume:
Data Type: Original

Mean Data: MB4955,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sn 242.170	157.8	0.0187	mg/L	0.00154	0.0187	mg/L	0.00154	8.24%

Sequence No.: 11
Sample ID: LCS-4955,4955
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 18
Date Collected: 12/31/2002 1:31:03 PM
Sample Prep Volume:
Data Type: Original

Mean Data: LCS-4955,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sn 242.170	-106.3	-0.0126	mg/L	0.01026	-0.0126	mg/L	0.01026	81.50%

Sequence No.: 12
Sample ID: MB-4920,4955
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 19
Date Collected: 12/31/2002 1:33:24 PM
Sample Prep Volume:
Data Type: Original

Mean Data: MB-4920,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sn 242.170	155.0	0.0184	mg/L	0.02163	0.0184	mg/L	0.02163	117.78%

Sequence No.: 13
Sample ID: A1905-01D,4955 1.045
Analyst:
Sample Wt: mc 11.0107
Dilution:
Autosampler Location: 20
Date Collected: 12/31/2002 1:35:46 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-01D,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sn 242.170	134.8	0.0160	mg/L	0.01023	0.0160	mg/L	0.01023	64.10%

Sequence No.: 14
Sample ID: A1905-02D,4955 1.055
Analyst:
Sample Wt: mc 10.0105
Dilution:
Autosampler Location: 21
Date Collected: 12/31/2002 1:38:10 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-02D,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sn 242.170	48.7	0.0058	mg/L	0.00035	0.0058	mg/L	0.00035	6.00%

Sequence No.: 15
Sample ID: A1905-03D,4955 1.035
Analyst:
Sample Wt: mc 10.0047
Dilution:
Autosampler Location: 22
Date Collected: 12/31/2002 1:40:33 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-03D,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sn 242.170	92.1	0.0109	mg/L	0.01178	0.0109	mg/L	0.01178	108.00%

Sequence No.: 16
Sample ID: CCV0
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 12/31/2002 1:42:57 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV0

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sn 242.170	8058.4	0.9544	mg/L	0.00240	0.9544	mg/L	0.00240	0.25%

Sequence No.: 17
Sample ID: CCB0
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 12/31/2002 1:45:17 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB0

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sn 242.170	232.6	0.0275	mg/L	0.00256	0.0275	mg/L	0.00256	9.31%

Sequence No.: 18
Sample ID: MB-4916,4916
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 23
Date Collected: 12/31/2002 1:47:38 PM
Sample Prep Volume:
Data Type: Original

Mean Data: MB-4916,4916

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sn 242.170	329.5	0.0390	mg/L	0.00387	0.0390	mg/L	0.00387	9.93%

Sequence No.: 19
Sample ID: LCS-4916,4916
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 24
Date Collected: 12/31/2002 1:50:01 PM
Sample Prep Volume:
Data Type: Original

Mean Data: LCS-4916,4916

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sn 242.170	29.2	0.0035	mg/L	0.00437	0.0035	mg/L	0.00437	126.28%

Sequence No.: 20
Sample ID: A1905-01D,4916 1.045
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 25
Date Collected: 12/31/2002 1:52:18 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-01D,4916

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sn 242.170	-2229.4	-0.2640	mg/L	0.01080	-0.2640	mg/L	0.01080	4.09%

Sequence No.: 21
Sample ID: A1905-02D,4916
Analyst:
Sample Wt:
Dilution: 1.055
Autosampler Location: 26
Date Collected: 12/31/2002 1:54:35 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-02D,4916

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sn 242.170	-2778.9	-0.3291	mg/L	0.00418	-0.3291	mg/L	0.00418	1.27%

Sequence No.: 22
Sample ID: A1905-03D,4916
Analyst:
Sample Wt:
Dilution: 1.035
Autosampler Location: 27
Date Collected: 12/31/2002 1:56:53 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-03D,4916

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sn 242.170	-2720.8	-0.3222	mg/L	0.00649	-0.3222	mg/L	0.00649	2.01%

Analysis Begun

Start Time: 12/31/2002 2:27:15 PM
Logged In Analyst: optima2
Spectrometer Model: Optima 3100 XL
Plasma On Time: 12/31/2002 2:20:42 PM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\pe\administrator\Sample Information\SN_6010.sif
Results Data Set: A123102
Results Library: d:\pe\administrator\Results\Results.mdb

Sequence No.: 23
Sample ID: A1905-03DSD,4916
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 28
Date Collected: 12/31/2002 2:27:15 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-03DSD,4916

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sn 242.170	-545.2	-0.0643	mg/L	0.01048	-0.0643	mg/L	0.01048	16.30%

Sequence No.: 24
Sample ID: ICSA1
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 5
Date Collected: 12/31/2002 2:29:34 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSA1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sn 242.170	-6107.4	-0.7233	mg/L	0.00551	-0.7233	mg/L	0.00551	0.76%

Sequence No.: 25
Sample ID: ICSAB1
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 6
Date Collected: 12/31/2002 2:31:55 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sn 242.170	-5709.3	-0.6762	mg/L	0.00147	-0.6762	mg/L	0.00147	0.22%

Sequence No.: 26
Sample ID: CCV1
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 12/31/2002 2:34:18 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sn 242.170	7866.4	0.9317	mg/L	0.01161	0.9317	mg/L	0.01161	1.25%

Sequence No.: 27
Sample ID: CCB1
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 12/31/2002 2:36:37 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sn 242.170	98.9	0.0117	mg/L	0.01050	0.0117	mg/L	0.01050	89.71%

Analysis Begun

Start Time: 1/3/2003 9:06:07 AM
Logged In Analyst: optima2
Spectrometer Model: Optima 3100 XL

Plasma On Time: 1/3/2003 8:10:19 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\pe\administrator\Sample Information\Evan.sif
Results Data Set: A010301
Results Library: d:\pe\administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: S0
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 1/3/2003 9:06:07 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Al 308.215	9014.7	40.40	0.45%	[0.00]	mg/L
Cr 267.716	-519.4	19.99	3.85%	[0.00]	mg/L
Cu 324.752	4445.3	117.48	2.64%	[0.00]	mg/L
Fe 273.955	-1118.9	16.35	1.46%	[0.00]	mg/L
Mg 279.077	-7087.2	192.57	2.72%	[0.00]	mg/L
Mn 257.610	-2444.1	11.60	0.47%	[0.00]	mg/L
Ni 231.604	-821.1	16.57	2.02%	[0.00]	mg/L
V 292.402	378.4	72.07	19.05%	[0.00]	mg/L
Ca 227.546	63.4	88.47	139.64%	[0.00]	mg/L

Sequence No.: 2
Sample ID: S1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 1/3/2003 9:08:25 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Al 308.215	1240894.8	4207.83	0.34%	[20]	mg/L
Cr 267.716	860472.6	3664.12	0.43%	[2]	mg/L
Cu 324.752	1547546.4	3843.92	0.25%	[2.5]	mg/L
Fe 273.955	605101.8	9083.50	1.50%	[10]	mg/L
Mg 279.077	2744158.8	12467.13	0.45%	[50]	mg/L
Mn 257.610	2794804.2	16575.97	0.59%	[5]	mg/L
Ni 231.604	505826.8	4682.44	0.93%	[5]	mg/L
V 292.402	2197153.2	6951.96	0.32%	[5]	mg/L
Ca 227.546	44478.9	906.20	2.04%	[50]	mg/L

Sequence No.: 3
Sample ID: S2
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 1/3/2003 9:10:53 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Al 308.215	612827.3	5367.83	0.88%	[10]	mg/L
Cr 267.716	437345.4	3954.47	0.90%	[1]	mg/L
Cu 324.752	769419.2	6629.55	0.86%	[1.25]	mg/L
Fe 273.955	314881.9	1359.39	0.43%	[5]	mg/L
Mg 279.077	1402815.4	12636.49	0.90%	[25]	mg/L
Mn 257.610	1438498.7	10742.82	0.75%	[2.5]	mg/L

Ni 231.604	260318.0	734.05	0.28%	[2.5]	mg/L
V 292.402	1107312.9	13335.82	1.20%	[2.5]	mg/L
Ca 227.546	22608.7	137.94	0.61%	[25]	mg/L

Sequence No.: 4
Sample ID: S3
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 1/3/2003 9:13:17 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Al 308.215	12095.0	260.98	2.16%	[0.2]	mg/L
Cr 267.716	9126.8	86.45	0.95%	[0.02]	mg/L
Cu 324.752	17015.7	308.61	1.81%	[0.025]	mg/L
Fe 273.955	6623.6	14.41	0.22%	[0.1]	mg/L
Mg 279.077	29813.5	278.27	0.93%	[0.5]	mg/L
Mn 257.610	31285.5	289.18	0.92%	[0.05]	mg/L
Ni 231.604	5584.0	104.64	1.87%	[0.05]	mg/L
V 292.402	22864.5	239.97	1.05%	[0.05]	mg/L
Ca 227.546	553.9	98.94	17.86%	[0.5]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	2	Lin Thru 0	0.0	464000	0.00000	0.999968	
Al 308.215	5	Lin Thru 0	0.0	61880	0.00000	0.999988	
As 188.979	3	Lin Thru 0	0.0	2397	0.00000	0.999981	
Ba 233.527	3	Lin Thru 0	0.0	106500	0.00000	0.999845	
Cr 267.716	3	Lin Thru 0	0.0	431700	0.00000	0.999978	
Cu 324.752	3	Lin Thru 0	0.0	618300	0.00000	0.999997	
Fe 273.955	3	Lin Thru 0	0.0	61000	0.00000	0.999869	
Mg 279.077	3	Lin Thru 0	0.0	55130	0.00000	0.999960	
Mn 257.610	3	Lin Thru 0	0.0	562300	0.00000	0.999931	
Ni 231.604	3	Lin Thru 0	0.0	101600	0.00000	0.999932	
Pb 220.353	3	Lin Thru 0	0.0	24690	0.00000	0.999915	
Be 196.026	3	Lin Thru 0	0.0	3121	0.00000	0.999874	
Tl 190.801	3	Lin Thru 0	0.0	3322	0.00000	0.999853	
V 292.402	3	Lin Thru 0	0.0	440100	0.00000	0.999995	
Zn 206.200	3	Lin Thru 0	0.0	129000	0.00000	0.999878	
Cd 226.502	3	Lin Thru 0	0.0	444500	0.00000	0.999952	
Tl 334.940	3	Lin Thru 0	0.0	1414000	0.00000	0.999994	
Ca 227.546	3	Lin Thru 0	0.0	892.5	0.00000	0.999976	

Sequence No.: 5
Sample ID: CHECK
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 1/3/2003 9:15:35 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CHECK

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	1234791.3	19.951	mg/L	0.0846	19.951	mg/L	0.0846	0.42%
Cr 267.716	859452.4	1.9913	mg/L	0.00488	1.9913	mg/L	0.00488	0.25%
Cu 324.752	1544092.9	2.4914	mg/L	0.00968	2.4914	mg/L	0.00968	0.39%
Fe 273.955	610010.8	9.9995	mg/L	0.08520	9.9995	mg/L	0.08520	0.85%
Mg 279.077	2738746.0	49.704	mg/L	0.0761	49.704	mg/L	0.0761	0.15%
Mn 257.610	2790340.6	4.9623	mg/L	0.00565	4.9623	mg/L	0.00565	0.11%
Ni 231.604	503877.9	4.9511	mg/L	0.00701	4.9511	mg/L	0.00701	0.14%
V 292.402	2192331.0	4.9855	mg/L	0.01384	4.9855	mg/L	0.01384	0.28%
Ca 227.546	44779.2	49.819	mg/L	0.6354	49.819	mg/L	0.6354	1.28%

Sequence No.: 6
Autosampler Location: 14

Sample ID: LRA
Analyst:
Sample Wt:
Dilution:

Date Collected: 1/3/2003 9:18:03 AM
Sample Prep Volume:
Data Type: Original

Mean Data: LRA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	337.7	0.0055	mg/L	0.00002	0.0055	mg/L	0.00002	0.45%
Cr 267.716	4359.6	0.0136	mg/L	0.00004	0.0136	mg/L	0.00004	0.30%
Cu 324.752	-16873.8	0.0125	mg/L	0.00034	0.0125	mg/L	0.00034	2.72%
Fe 273.955	17331364.8	284.10	mg/L	1.243	284.10	mg/L	1.243	0.44%
Mg 279.077	2282.6	0.0413	mg/L	0.00117	0.0413	mg/L	0.00117	2.84%
Mn 257.610	-8898.0	-0.0113	mg/L	0.00007	-0.0113	mg/L	0.00007	0.60%
Ni 231.604	1217.0	0.0120	mg/L	0.00017	0.0120	mg/L	0.00017	1.41%
V 292.402	-468.9	-0.0034	mg/L	0.00005	-0.0034	mg/L	0.00005	1.61%
Ca 227.546	3378.7	1.3228	mg/L	0.07747	1.3228	mg/L	0.07747	5.86%

Sequence No.: 7
Sample ID: ICV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 1/3/2003 9:20:36 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	612812.9	9.9013	mg/L	0.01239	9.9013	mg/L	0.01239	0.13%
Cr 267.716	434396.0	1.0064	mg/L	0.00032	1.0064	mg/L	0.00032	0.03%
Cu 324.752	781356.9	1.2606	mg/L	0.00042	1.2606	mg/L	0.00042	0.02%
Fe 273.955	311747.5	5.1103	mg/L	0.03026	5.1103	mg/L	0.03026	0.59%
Mg 279.077	1404885.6	25.497	mg/L	0.0107	25.497	mg/L	0.0107	0.04%
Mn 257.610	1435260.8	2.5525	mg/L	0.00656	2.5525	mg/L	0.00656	0.26%
Ni 231.604	259636.5	2.5512	mg/L	0.00763	2.5512	mg/L	0.00763	0.30%
V 292.402	1165796.6	2.5146	mg/L	0.00327	2.5146	mg/L	0.00327	0.13%
Ca 227.546	22027.9	24.501	mg/L	0.2351	24.501	mg/L	0.2351	0.96%

Sequence No.: 8
Sample ID: ICB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 1/3/2003 9:23:02 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	-32.5	-0.0005	mg/L	0.00073	-0.0005	mg/L	0.00073	139.88%
Cr 267.716	20.6	0.0000	mg/L	0.00004	0.0000	mg/L	0.00004	76.19%
Cu 324.752	1380.7	0.0022	mg/L	0.00022	0.0022	mg/L	0.00022	9.71%
Fe 273.955	138.1	0.0023	mg/L	0.00034	0.0023	mg/L	0.00034	15.13%
Mg 279.077	-35.9	-0.0007	mg/L	0.00223	-0.0007	mg/L	0.00223	342.13%
Mn 257.610	26.6	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	43.36%
Ni 231.604	-14.0	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	15.36%
V 292.402	96.4	0.0002	mg/L	0.00011	0.0002	mg/L	0.00011	50.01%
Ca 227.546	33.7	0.0377	mg/L	0.05753	0.0377	mg/L	0.05753	152.69%

Sequence No.: 9
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 1/3/2003 9:25:23 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSA

Analyte	Mean Corrected	Calib		Sample	

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Al 308.215	30045775.2	485.45	mg/L	2.522	485.45	mg/L	2.522	0.52%
Cr 267.716	-667.0	0.0006	mg/L	0.00007	0.0006	mg/L	0.00007	12.23%
Cu 324.752	-791.8	0.0094	mg/L	0.00019	0.0094	mg/L	0.00019	2.03%
Fe 273.955	10453043.1	171.35	mg/L	0.728	171.35	mg/L	0.728	0.42%
Mg 279.077	25785271.3	467.72	mg/L	1.936	467.72	mg/L	1.936	0.41%
Mn 257.610	-3463.2	-0.0073	mg/L	0.00001	-0.0073	mg/L	0.00001	0.08%
Ni 231.604	225.4	0.0022	mg/L	0.00040	0.0022	mg/L	0.00040	18.25%
V 292.402	-531.9	-0.0026	mg/L	0.00011	-0.0026	mg/L	0.00011	4.01%
Ca 227.546	450504.5	503.48	mg/L	9.517	503.48	mg/L	9.517	1.89%

Sequence No.: 10
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 1/3/2003 9:28:01 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	32294243.8	521.78	mg/L	0.305	521.78	mg/L	0.305	0.06%
Cr 267.716	220323.3	0.5127	mg/L	0.00428	0.5127	mg/L	0.00428	0.83%
Cu 324.752	339454.7	0.5726	mg/L	0.00637	0.5726	mg/L	0.00637	1.11%
Fe 273.955	11164888.6	183.02	mg/L	0.212	183.02	mg/L	0.212	0.12%
Mg 279.077	27566017.5	500.03	mg/L	0.462	500.03	mg/L	0.462	0.09%
Mn 257.610	293855.5	0.5214	mg/L	0.00433	0.5214	mg/L	0.00433	0.83%
Ni 231.604	99295.8	0.9757	mg/L	0.00372	0.9757	mg/L	0.00372	0.38%
V 292.402	230777.6	0.5239	mg/L	0.00579	0.5239	mg/L	0.00579	1.11%
Ca 227.546	490531.5	548.19	mg/L	5.679	548.19	mg/L	5.679	1.04%

Sequence No.: 11
Sample ID: MB-4955,4955
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 17
Date Collected: 1/3/2003 9:30:38 AM
Sample Prep Volume:
Data Type: Original

Mean Data: MB-4955,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	1062.5	0.0162	mg/L	0.00127	0.0162	mg/L	0.00127	7.84%
Cr 267.716	80.2	0.0002	mg/L	0.00009	0.0002	mg/L	0.00009	47.48%
Cu 324.752	4186.0	0.0068	mg/L	0.00021	0.0068	mg/L	0.00021	3.16%
Fe 273.955	2201.0	0.0361	mg/L	0.00276	0.0361	mg/L	0.00276	7.66%
Mg 279.077	396.5	0.0072	mg/L	0.00111	0.0072	mg/L	0.00111	15.44%
Mn 257.610	562.1	0.0010	mg/L	0.00010	0.0010	mg/L	0.00010	9.76%
Ni 231.604	-11.0	-0.0001	mg/L	0.00012	-0.0001	mg/L	0.00012	112.38%
V 292.402	136.9	0.0003	mg/L	0.00026	0.0003	mg/L	0.00026	83.99%
Ca 227.546	120.7	0.1348	mg/L	0.06867	0.1348	mg/L	0.06867	50.94%

Sequence No.: 12
Sample ID: LCS-4955,4955
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 18
Date Collected: 1/3/2003 9:32:59 AM
Sample Prep Volume:
Data Type: Original

Mean Data: LCS-4955,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	549487.7	8.8781	mg/L	0.10493	8.8781	mg/L	0.10493	1.18%
Cr 267.716	388069.7	0.8991	mg/L	0.00938	0.8991	mg/L	0.00938	1.04%
Cu 324.752	697132.4	1.1248	mg/L	0.01372	1.1248	mg/L	0.01372	1.22%
Fe 273.955	280150.6	4.5923	mg/L	0.00356	4.5923	mg/L	0.00356	0.08%
Mg 279.077	1237790.7	22.464	mg/L	0.1806	22.464	mg/L	0.1806	0.80%
Mn 257.610	1280720.8	2.2776	mg/L	0.01734	2.2776	mg/L	0.01734	0.76%
Ni 231.604	232114.3	2.2808	mg/L	0.01823	2.2808	mg/L	0.01823	0.80%

V 292.402	982167.8	2.2335 mg/L	0.03039	2.2335 mg/L	0.03039	1.36%
Ca 227.546	19858.5	22.090 mg/L	0.0069	22.090 mg/L	0.0069	0.03%

Sequence No.: 13
Sample ID: A1905-14B,4955
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 19
Date Collected: 1/3/2003 9:35:27 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-14B,4955

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Al 308.215	1635.8	0.0264 mg/L	0.00028	0.0264 mg/L	0.00028	1.07%
Cr 267.716	459.6	0.0011 mg/L	0.00006	0.0011 mg/L	0.00006	5.54%
Cu 324.752	4786.0	0.0077 mg/L	0.00038	0.0077 mg/L	0.00038	4.86%
Fe 273.955	5819.7	0.0954 mg/L	0.00110	0.0954 mg/L	0.00110	1.15%
Mg 279.077	35347.6	0.6412 mg/L	0.00286	0.6412 mg/L	0.00286	0.45%
Mn 257.610	2577.1	0.0046 mg/L	0.00013	0.0046 mg/L	0.00013	2.84%
Ni 231.604	-16.8	-0.0002 mg/L	0.00035	-0.0002 mg/L	0.00035	210.58%
V 292.402	454.9	0.0010 mg/L	0.00001	0.0010 mg/L	0.00001	0.78%
Ca 227.546	9225.5	10.335 mg/L	0.0906	10.335 mg/L	0.0906	0.88%

Sequence No.: 14
Sample ID: A1905-16B,4955
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 20
Date Collected: 1/3/2003 9:37:50 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-16B,4955

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Al 308.215	22716982.9	367.04 mg/L	2.626	367.04 mg/L	2.626	0.72%
Cr 267.716	271366.0	0.6328 mg/L	0.00201	0.6328 mg/L	0.00201	0.32%
Cu 324.752	604009.8	1.0235 mg/L	0.00900	1.0235 mg/L	0.00900	0.88%
Fe 273.955	22801940.1	373.78 mg/L	1.576	373.78 mg/L	1.576	0.42%
Mg 279.077	8266885.2	149.98 mg/L	0.938	149.98 mg/L	0.938	0.63%
Mn 257.610	2336085.8	4.1613 mg/L	0.02023	4.1613 mg/L	0.02023	0.49%
Ni 231.604	46022.1	0.4519 mg/L	0.00146	0.4519 mg/L	0.00146	0.32%
V 292.402	466860.9	1.0592 mg/L	0.00855	1.0592 mg/L	0.00855	0.81%
Ca 227.546	51642.8	54.731 mg/L	0.5548	54.731 mg/L	0.5548	1.01%

Sequence No.: 15
Sample ID: A1905-16C,4955
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 21
Date Collected: 1/3/2003 9:40:30 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-16C,4955

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Al 308.215	8171.3	0.1320 mg/L	0.00200	0.1320 mg/L	0.00200	1.52%
Cr 267.716	1547.3	0.0035 mg/L	0.00006	0.0035 mg/L	0.00006	1.61%
Cu 324.752	3424.7	0.0055 mg/L	0.00008	0.0055 mg/L	0.00008	1.46%
Fe 273.955	391872.5	6.4237 mg/L	0.03281	6.4237 mg/L	0.03281	0.51%
Mg 279.077	1918746.1	34.808 mg/L	0.0950	34.808 mg/L	0.0950	0.27%
Mn 257.610	400873.9	0.7125 mg/L	0.00270	0.7125 mg/L	0.00270	0.38%
Ni 231.604	288.3	0.0028 mg/L	0.00026	0.0028 mg/L	0.00026	9.49%
V 292.402	3849.5	0.0087 mg/L	0.00017	0.0087 mg/L	0.00017	1.99%
Ca 227.546	22509.8	25.164 mg/L	0.3603	25.164 mg/L	0.3603	1.43%

Sequence No.: 16
Sample ID: CCV
Analyst:
Sample Wt:
Autosampler Location: 3
Date Collected: 1/3/2003 9:42:58 AM
Sample Prep Volume:

Dilution:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Al 308.215	639904.9	10.016 mg/L	0.1648	10.016 mg/L	0.1648	1.65%
Cr 267.716	438813.0	1.0167 mg/L	0.01190	1.0167 mg/L	0.01190	1.17%
Cu 324.752	790712.4	1.2758 mg/L	0.01974	1.2758 mg/L	0.01974	1.55%
Fe 273.955	357065.3	5.1975 mg/L	0.03733	5.1975 mg/L	0.03733	0.72%
Mg 279.077	1416984.3	25.716 mg/L	0.2373	25.716 mg/L	0.2373	0.92%
Mn 257.610	1448429.7	2.5759 mg/L	0.03330	2.5759 mg/L	0.03330	1.29%
Ni 231.604	261626.8	2.5708 mg/L	0.02952	2.5708 mg/L	0.02952	1.15%
V 292.402	1117707.7	2.5417 mg/L	0.03434	2.5417 mg/L	0.03434	1.35%
Ca 227.546	22412.5	24.930 mg/L	0.3084	24.930 mg/L	0.3084	1.24%

Sequence No.: 17
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 1/3/2003 9:45:24 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Al 308.215	27.7	0.0004 mg/L	0.00055	0.0004 mg/L	0.00055	122.09%
Cr 267.716	-1.9	0.0000 mg/L	0.00010	0.0000 mg/L	0.00010	>999.9%
Cu 324.752	844.2	0.0014 mg/L	0.00006	0.0014 mg/L	0.00006	4.36%
Fe 273.955	203.3	0.0033 mg/L	0.00169	0.0033 mg/L	0.00169	50.62%
Mg 279.077	233.4	0.0042 mg/L	0.00124	0.0042 mg/L	0.00124	29.29%
Mn 257.610	90.5	0.0002 mg/L	0.00006	0.0002 mg/L	0.00006	38.48%
Ni 231.604	3.4	0.0000 mg/L	0.00008	0.0000 mg/L	0.00008	230.12%
V 292.402	82.9	0.0002 mg/L	0.00013	0.0002 mg/L	0.00013	69.46%
Ca 227.546	38.1	0.0426 mg/L	0.03892	0.0426 mg/L	0.03892	91.36%

Sequence No.: 18
Sample ID: A1905-18B,4955
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 22
Date Collected: 1/3/2003 9:47:45 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-18B,4955

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Al 308.215	6616.7	0.1069 mg/L	0.00233	0.1069 mg/L	0.00233	2.18%
Cr 267.716	711.7	0.0015 mg/L	0.00019	0.0015 mg/L	0.00019	12.50%
Cu 324.752	2920.1	0.0042 mg/L	0.00008	0.0042 mg/L	0.00008	1.92%
Fe 273.955	394150.8	6.4611 mg/L	0.05573	6.4611 mg/L	0.05573	0.86%
Mg 279.077	2115056.9	38.371 mg/L	0.2639	38.371 mg/L	0.2639	0.69%
Mn 257.610	634324.1	1.1276 mg/L	0.00827	1.1276 mg/L	0.00827	0.73%
Ni 231.604	143.8	0.0013 mg/L	0.00004	0.0013 mg/L	0.00004	2.82%
V 292.402	1991.0	0.0045 mg/L	0.00006	0.0045 mg/L	0.00006	1.39%
Ca 227.546	21715.2	24.273 mg/L	0.2890	24.273 mg/L	0.2890	1.19%

Sequence No.: 19
Sample ID: A1905-18C,4955
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 23
Date Collected: 1/3/2003 9:50:15 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-18C,4955

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Al 308.215	10989198.9	177.55 mg/L	1.176	177.55 mg/L	1.176	0.66%
Cr 267.716	110529.7	0.2577 mg/L	0.00089	0.2577 mg/L	0.00089	0.35%

Cu 324.752	248440.7	0.4215 mg/L	0.00034	0.4215 mg/L	0.00034	0.08%
Fe 273.955	10270204.2	168.35 mg/L	0.687	168.35 mg/L	0.687	0.41%
Mg 279.077	5341465.4	96.904 mg/L	0.4076	96.904 mg/L	0.4076	0.42%
Mn 257.610	1608233.0	2.8629 mg/L	0.01749	2.8629 mg/L	0.01749	0.61%
Ni 231.604	21464.8	0.2107 mg/L	0.00008	0.2107 mg/L	0.00008	0.04%
V 292.402	172618.3	0.3915 mg/L	0.00232	0.3915 mg/L	0.00232	0.59%
Ca 227.546	32879.0	35.437 mg/L	0.1556	35.437 mg/L	0.1556	0.44%

Sequence No.: 20
Sample ID: A1905-26A,4955
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 24
Date Collected: 1/3/2003 9:52:52 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-26A,4955

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Al 308.215	332.3	0.0054 mg/L	0.00065	0.0054 mg/L	0.00065	12.10%
Cr 267.716	140.5	0.0003 mg/L	0.00006	0.0003 mg/L	0.00006	18.10%
Cu 324.752	2558.2	0.0041 mg/L	0.00022	0.0041 mg/L	0.00022	5.33%
Fe 273.955	2242.3	0.0368 mg/L	0.00040	0.0368 mg/L	0.00040	1.09%
Mg 279.077	195.5	0.0036 mg/L	0.00283	0.0036 mg/L	0.00283	79.50%
Mn 257.610	1104.6	0.0020 mg/L	0.00011	0.0020 mg/L	0.00011	5.52%
Ni 231.604	-23.5	-0.0002 mg/L	0.00021	-0.0002 mg/L	0.00021	91.71%
V 292.402	84.3	0.0002 mg/L	0.00015	0.0002 mg/L	0.00015	80.20%
Ca 227.546	92.9	0.1037 mg/L	0.04291	0.1037 mg/L	0.04291	41.38%

Sequence No.: 21
Sample ID: MB-4917,4917
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 25
Date Collected: 1/3/2003 9:55:10 AM
Sample Prep Volume:
Data Type: Original

Mean Data: MB-4917,4917

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Al 308.215	423.3	0.0068 mg/L	0.00127	0.0068 mg/L	0.00127	18.60%
Cr 267.716	59.2	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	22.74%
Cu 324.752	2044.9	0.0033 mg/L	0.00021	0.0033 mg/L	0.00021	6.19%
Fe 273.955	3604.9	0.0591 mg/L	0.00035	0.0591 mg/L	0.00035	0.59%
Mg 279.077	180.2	0.0033 mg/L	0.00052	0.0033 mg/L	0.00052	15.83%
Mn 257.610	845.2	0.0015 mg/L	0.00001	0.0015 mg/L	0.00001	0.95%
Ni 231.604	-20.2	-0.0002 mg/L	0.00009	-0.0002 mg/L	0.00009	42.75%
V 292.402	83.9	0.0002 mg/L	0.00006	0.0002 mg/L	0.00006	30.10%
Ca 227.546	80.4	0.0895 mg/L	0.06958	0.0895 mg/L	0.06958	77.70%

Sequence No.: 22
Sample ID: LCS-4917,4917
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 26
Date Collected: 1/3/2003 9:57:27 AM
Sample Prep Volume:
Data Type: Original

Mean Data: LCS-4917,4917

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Al 308.215	565518.0	9.1371 mg/L	0.06211	9.1371 mg/L	0.06211	0.68%
Cr 267.716	397325.9	0.9206 mg/L	0.00402	0.9206 mg/L	0.00402	0.44%
Cu 324.752	712159.3	1.1496 mg/L	0.00626	1.1496 mg/L	0.00626	0.55%
Fe 273.955	283346.8	4.6447 mg/L	0.06136	4.6447 mg/L	0.06136	1.32%
Mg 279.077	1257651.3	22.825 mg/L	0.0881	22.825 mg/L	0.0881	0.39%
Mn 257.610	1301541.6	2.3147 mg/L	0.00723	2.3147 mg/L	0.00723	0.31%
Ni 231.604	229939.4	2.2594 mg/L	0.02671	2.2594 mg/L	0.02671	1.18%
V 292.402	1009554.6	2.2958 mg/L	0.01258	2.2958 mg/L	0.01258	0.55%
Ca 227.546	19868.4	22.099 mg/L	0.3577	22.099 mg/L	0.3577	1.62%

Sequence No.: 23
Sample ID: A1905-07A,4917
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 27
Date Collected: 1/3/2003 9:59:51 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-07A,4917

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Al 308.215	384.7	0.0062 mg/L	0.00005	0.0062 mg/L	0.00005	0.82%
Cr 267.716	170.3	0.0004 mg/L	0.00015	0.0004 mg/L	0.00015	38.13%
Cu 324.752	3041.2	0.0049 mg/L	0.00000	0.0049 mg/L	0.00000	0.06%
Fe 273.955	1845.1	0.0302 mg/L	0.00048	0.0302 mg/L	0.00048	1.57%
Mg 279.077	290.1	0.0053 mg/L	0.00128	0.0053 mg/L	0.00128	24.38%
Mn 257.610	1031.1	0.0018 mg/L	0.00002	0.0018 mg/L	0.00002	1.34%
Ni 231.604	-28.7	-0.0003 mg/L	0.00014	-0.0003 mg/L	0.00014	48.97%
V 292.402	156.0	0.0004 mg/L	0.00011	0.0004 mg/L	0.00011	30.19%
Ca 227.546	55.0	0.0613 mg/L	0.03893	0.0613 mg/L	0.03893	63.54%

Sequence No.: 24
Sample ID: A1905-08A,4917
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 28
Date Collected: 1/3/2003 10:02:10 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-08A,4917

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Al 308.215	478.4	0.0077 mg/L	0.00048	0.0077 mg/L	0.00048	6.15%
Cr 267.716	101.7	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	2.36%
Cu 324.752	2459.5	0.0040 mg/L	0.00013	0.0040 mg/L	0.00013	3.25%
Fe 273.955	12354.3	0.2025 mg/L	0.00258	0.2025 mg/L	0.00258	1.27%
Mg 279.077	196.7	0.0036 mg/L	0.00016	0.0036 mg/L	0.00016	4.49%
Mn 257.610	1345.2	0.0024 mg/L	0.00006	0.0024 mg/L	0.00006	2.54%
Ni 231.604	-15.6	-0.0002 mg/L	0.00014	-0.0002 mg/L	0.00014	94.03%
V 292.402	68.9	0.0002 mg/L	0.00005	0.0002 mg/L	0.00005	34.43%
Ca 227.546	4.4	0.0032 mg/L	0.01243	0.0032 mg/L	0.01243	392.54%

Sequence No.: 25
Sample ID: A1905-10A,4917
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 29
Date Collected: 1/3/2003 10:04:29 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-10A,4917

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Al 308.215	806.1	0.0130 mg/L	0.00159	0.0130 mg/L	0.00159	12.20%
Cr 267.716	182.5	0.0004 mg/L	0.00002	0.0004 mg/L	0.00002	4.38%
Cu 324.752	2065.4	0.0034 mg/L	0.00014	0.0034 mg/L	0.00014	4.29%
Fe 273.955	10059.1	0.1649 mg/L	0.00017	0.1649 mg/L	0.00017	0.10%
Mg 279.077	361.0	0.0066 mg/L	0.00122	0.0066 mg/L	0.00122	18.49%
Mn 257.610	2851.2	0.0051 mg/L	0.00003	0.0051 mg/L	0.00003	0.63%
Ni 231.604	20.0	0.0002 mg/L	0.00062	0.0002 mg/L	0.00062	317.47%
V 292.402	112.7	0.0003 mg/L	0.00002	0.0003 mg/L	0.00002	6.91%
Ca 227.546	4.9	0.0041 mg/L	0.05218	0.0041 mg/L	0.05218	>999.9%

Sequence No.: 26
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 1/3/2003 10:06:48 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Al 308.215	619369.4	10.007	mg/L	0.1323	10.007	mg/L	0.1323	1.32%
Cr 267.716	438642.7	1.0163	mg/L	0.01063	1.0163	mg/L	0.01063	1.05%
Cu 324.752	786637.9	1.2692	mg/L	0.01499	1.2692	mg/L	0.01499	1.18%
Fe 273.955	317504.7	5.2047	mg/L	0.04595	5.2047	mg/L	0.04595	0.88%
Mg 279.077	1415605.7	25.691	mg/L	0.2119	25.691	mg/L	0.2119	0.82%
Mn 257.610	1426479.8	2.5368	mg/L	0.01811	2.5368	mg/L	0.01811	0.71%
Ni 231.604	256814.5	2.5235	mg/L	0.02479	2.5235	mg/L	0.02479	0.98%
V 292.402	1126376.3	2.5614	mg/L	0.03060	2.5614	mg/L	0.03060	1.19%
Ca 227.546	22455.6	24.979	mg/L	0.0343	24.979	mg/L	0.0343	0.14%

Sequence No.: 27
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 1/3/2003 10:09:14 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Al 308.215	459.6	0.0074	mg/L	0.00140	0.0074	mg/L	0.00140	18.91%
Cr 267.716	2.8	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	232.40%
Cu 324.752	337.2	0.0005	mg/L	0.00022	0.0005	mg/L	0.00022	40.80%
Fe 273.955	120.7	0.0020	mg/L	0.00084	0.0020	mg/L	0.00084	42.49%
Mg 279.077	254.8	0.0046	mg/L	0.00019	0.0046	mg/L	0.00019	4.17%
Mn 257.610	125.7	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	11.21%
Ni 231.604	-37.2	-0.0004	mg/L	0.00018	-0.0004	mg/L	0.00018	49.49%
V 292.402	105.1	0.0002	mg/L	0.00010	0.0002	mg/L	0.00010	41.95%
Ca 227.546	112.5	0.1260	mg/L	0.00444	0.1260	mg/L	0.00444	3.52%

Sequence No.: 28
Sample ID: MB-4916,4916
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 30
Date Collected: 1/3/2003 10:11:36 AM
Sample Prep Volume:
Data Type: Original

Mean Data: MB-4916,4916

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Al 308.215	808.1	0.0131	mg/L	0.00015	0.0131	mg/L	0.00015	1.17%
Cr 267.716	348.5	0.0008	mg/L	0.00000	0.0008	mg/L	0.00000	0.03%
Cu 324.752	4762.1	0.0077	mg/L	0.00005	0.0077	mg/L	0.00005	0.63%
Fe 273.955	2609.0	0.0428	mg/L	0.00042	0.0428	mg/L	0.00042	0.99%
Mg 279.077	324.0	0.0059	mg/L	0.00094	0.0059	mg/L	0.00094	15.84%
Mn 257.610	2792.3	0.0050	mg/L	0.00002	0.0050	mg/L	0.00002	0.46%
Ni 231.604	29.0	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	3.96%
V 292.402	126.5	0.0003	mg/L	0.00011	0.0003	mg/L	0.00011	37.62%
Ca 227.546	51.0	0.0567	mg/L	0.14767	0.0567	mg/L	0.14767	260.51%

Sequence No.: 29
Sample ID: LCS-4916,4916
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 31
Date Collected: 1/3/2003 10:13:55 AM
Sample Prep Volume:
Data Type: Original

Mean Data: LCS-4916,4916

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Al 308.215	537779.2	8.6890	mg/L	0.09855	8.6890	mg/L	0.09855	1.13%
Cr 267.716	388519.6	0.9002	mg/L	0.00752	0.9002	mg/L	0.00752	0.84%
Cu 324.752	689612.6	1.1127	mg/L	0.01095	1.1127	mg/L	0.01095	0.98%
Fe 273.955	281528.7	4.6149	mg/L	0.01169	4.6149	mg/L	0.01169	0.25%
Mg 279.077	1222817.5	22.192	mg/L	0.1610	22.192	mg/L	0.1610	0.73%

Mn 257.610	1258980.1	2.2390	mg/L	0.01524	2.2390	mg/L	0.01524	0.68%
Ni 231.604	220914.8	2.1707	mg/L	0.00967	2.1707	mg/L	0.00967	0.45%
V 292.402	993006.0	2.2581	mg/L	0.02310	2.2581	mg/L	0.02310	1.02%
Ca 227.546	19142.7	21.289	mg/L	0.2232	21.289	mg/L	0.2232	1.05%

Sequence No.: 30
Sample ID: A1905-06C,4916 1.02g
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 32
Date Collected: 1/3/2003 10:16:21 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-06C,4916

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Al 308.215	19138883.0	309.23	mg/L	0.203	309.23	mg/L	0.203	0.07%
Cr 267.716	358373.3	0.8328	mg/L	0.00054	0.8328	mg/L	0.00054	0.07%
Cu 324.752	226596.1	0.4033	mg/L	0.00069	0.4033	mg/L	0.00069	0.17%
Fe 273.955	23050437.3	377.85	mg/L	0.100	377.85	mg/L	0.100	0.03%
Mg 279.077	7707425.2	139.87	mg/L	2.352	139.87	mg/L	2.352	1.68%
Mn 257.610	7019924.6	12.492	mg/L	0.0024	12.492	mg/L	0.0024	0.02%
Ni 231.604	42688.0	0.4184	mg/L	0.00120	0.4184	mg/L	0.00120	0.29%
V 292.402	360625.4	0.8188	mg/L	0.00046	0.8188	mg/L	0.00046	0.06%
Ca 227.546	81116.5	87.707	mg/L	0.4735	87.707	mg/L	0.4735	0.04%

Sequence No.: 31
Sample ID: MB-4954,4954
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 33
Date Collected: 1/3/2003 10:19:01 AM
Sample Prep Volume:
Data Type: Original

Mean Data: MB-4954,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Al 308.215	882.7	0.0143	mg/L	0.00237	0.0143	mg/L	0.00237	16.65%
Cr 267.716	347.7	0.0008	mg/L	0.00006	0.0008	mg/L	0.00006	7.40%
Cu 324.752	2356.5	0.0038	mg/L	0.00007	0.0038	mg/L	0.00007	1.77%
Fe 273.955	2523.4	0.0414	mg/L	0.00016	0.0414	mg/L	0.00016	0.40%
Mg 279.077	82.2	0.0015	mg/L	0.00150	0.0015	mg/L	0.00150	99.39%
Mn 257.610	2324.1	0.0041	mg/L	0.00002	0.0041	mg/L	0.00002	0.55%
Ni 231.604	-7.2	-0.0001	mg/L	0.00016	-0.0001	mg/L	0.00016	223.28%
V 292.402	52.5	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	7.33%
Ca 227.546	154.9	0.1732	mg/L	0.01915	0.1732	mg/L	0.01915	11.06%

Sequence No.: 32
Sample ID: LCS-4954,4954
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 34
Date Collected: 1/3/2003 10:21:22 AM
Sample Prep Volume:
Data Type: Original

Mean Data: LCS-4954,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Al 308.215	537284.9	8.6810	mg/L	0.00057	8.6810	mg/L	0.00057	0.01%
Cr 267.716	387621.5	0.8981	mg/L	0.00090	0.8981	mg/L	0.00090	0.10%
Cu 324.752	686033.6	1.1069	mg/L	0.00019	1.1069	mg/L	0.00019	0.02%
Fe 273.955	280806.2	4.6031	mg/L	0.00179	4.6031	mg/L	0.00179	0.04%
Mg 279.077	1216272.4	22.074	mg/L	0.0051	22.074	mg/L	0.0051	0.02%
Mn 257.610	1256068.0	2.2338	mg/L	0.00404	2.2338	mg/L	0.00404	0.18%
Ni 231.604	219469.1	2.1565	mg/L	0.01287	2.1565	mg/L	0.01287	0.60%
V 292.402	989825.8	2.2509	mg/L	0.00037	2.2509	mg/L	0.00037	0.02%
Ca 227.546	18996.3	21.125	mg/L	0.0342	21.125	mg/L	0.0342	0.16%

Sequence No.: 33
Sample ID: A1905-15C,4954
Autosampler Location: 35
Date Collected: 1/3/2003 10:23:50 AM

Analyst:
Sample Wt:
Dilution: 1.02g
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-15C,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Al 308.215	16988075.9	274.48	mg/L	0.874	274.48	mg/L	0.874	0.32%
Cr 267.716	106621.3	0.2488	mg/L	0.00033	0.2488	mg/L	0.00033	0.13%
Cu 324.752	63897.3	0.1235	mg/L	0.00024	0.1235	mg/L	0.00024	0.20%
Fe 273.955	9689150.9	158.83	mg/L	0.134	158.83	mg/L	0.134	0.08%
Mg 279.077	3041369.5	55.175	mg/L	0.3916	55.175	mg/L	0.3916	0.71%
Mn 257.610	791712.1	1.4120	mg/L	0.00829	1.4120	mg/L	0.00829	0.59%
Ni 231.604	14637.1	0.1437	mg/L	0.00032	0.1437	mg/L	0.00032	0.22%
V 292.402	167129.3	0.3790	mg/L	0.00008	0.3790	mg/L	0.00008	0.02%
Ca 227.546	27185.3	29.190	mg/L	0.0373	29.190	mg/L	0.0373	0.13%

Sequence No.: 34
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 1/3/2003 10:26:24 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Al 308.215	620854.1	10.031	mg/L	0.0950	10.031	mg/L	0.0950	0.95%
Cr 267.716	438493.8	1.0183	mg/L	0.00488	1.0183	mg/L	0.00488	0.48%
Cu 324.752	789456.3	1.2738	mg/L	0.00897	1.2738	mg/L	0.00897	0.70%
Fe 273.955	317180.1	5.1993	mg/L	0.04281	5.1993	mg/L	0.04281	0.82%
Mg 279.077	1415666.8	25.692	mg/L	0.1030	25.692	mg/L	0.1030	0.40%
Mn 257.610	1427018.9	2.5378	mg/L	0.01382	2.5378	mg/L	0.01382	0.54%
Ni 231.604	254821.6	2.5039	mg/L	0.01850	2.5039	mg/L	0.01850	0.74%
V 292.402	1130334.8	2.5704	mg/L	0.01042	2.5704	mg/L	0.01042	0.41%
Ca 227.546	22065.2	24.541	mg/L	0.0224	24.541	mg/L	0.0224	0.09%

Sequence No.: 35
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 1/3/2003 10:28:50 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Al 308.215	475.8	0.0077	mg/L	0.00322	0.0077	mg/L	0.00322	41.83%
Cr 267.716	33.8	0.0001	mg/L	0.00016	0.0001	mg/L	0.00016	209.65%
Cu 324.752	293.6	0.0005	mg/L	0.00008	0.0005	mg/L	0.00008	17.80%
Fe 273.955	227.0	0.0037	mg/L	0.00102	0.0037	mg/L	0.00102	27.38%
Mg 279.077	348.8	0.0063	mg/L	0.00147	0.0063	mg/L	0.00147	23.26%
Mn 257.610	153.3	0.0003	mg/L	0.00002	0.0003	mg/L	0.00002	5.81%
Ni 231.604	11.6	0.0001	mg/L	0.00012	0.0001	mg/L	0.00012	106.06%
V 292.402	90.9	0.0002	mg/L	0.00013	0.0002	mg/L	0.00013	62.33%
Ca 227.546	-0.8	-0.0009	mg/L	0.12880	-0.0009	mg/L	0.12880	>999.9%

Sequence No.: 36
Sample ID: A1905-28A,4954 1.03g
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 36
Date Collected: 1/3/2003 10:31:12 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-28A,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD

Al 308.215	28178785.2	455.29	mg/L	1.952	455.29	mg/L	1.952	0.43%
Cr 267.716	738560.3	1.7159	mg/L	0.00443	1.7159	mg/L	0.00443	0.26%
Cu 324.752	505498.5	0.8802	mg/L	0.00201	0.8802	mg/L	0.00201	0.23%
Fe 273.955	35616011.1	583.83	mg/L	2.016	583.83	mg/L	2.016	0.35%
Mg 279.077	14736120.7	267.38	mg/L	1.158	267.38	mg/L	1.158	0.43%
Mn 257.610	8302505.0	14.775	mg/L	0.0612	14.775	mg/L	0.0612	0.41%
Ni 231.604	85992.3	0.8437	mg/L	0.00014	0.8437	mg/L	0.00014	0.02%
V 292.402	744441.2	1.6911	mg/L	0.00752	1.6911	mg/L	0.00752	0.44%
Ca 227.546	82357.8	87.335	mg/L	0.0695	87.335	mg/L	0.0695	0.08%

Sequence No.: 37
Sample ID: A1905-28ADUP,4954 1.03g
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 37
Date Collected: 1/3/2003 10:33:51 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-28ADUP,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Al 308.215	28900607.5	466.95	mg/L	0.505	466.95	mg/L	0.505	0.11%
Cr 267.716	756207.7	1.7566	mg/L	0.03989	1.7566	mg/L	0.03989	2.27%
Cu 324.752	570622.8	0.9842	mg/L	0.02786	0.9842	mg/L	0.02786	2.83%
Fe 273.955	35483271.3	581.66	mg/L	0.050	581.66	mg/L	0.050	0.01%
Mg 279.077	14968008.2	271.59	mg/L	0.199	271.59	mg/L	0.199	0.07%
Mn 257.610	8738254.6	15.550	mg/L	0.0066	15.550	mg/L	0.0066	0.04%
Ni 231.604	90949.1	0.8923	mg/L	0.01531	0.8923	mg/L	0.01531	1.72%
V 292.402	757132.7	1.7201	mg/L	0.04445	1.7201	mg/L	0.04445	2.58%
Ca 227.546	82645.0	87.677	mg/L	3.0194	87.677	mg/L	3.0194	3.44%

Sequence No.: 38
Sample ID: A1905-28AMS,4954 1.03g
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 38
Date Collected: 1/3/2003 10:36:30 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-28AMS,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Al 308.215	30483041.5	492.52	mg/L	2.478	492.52	mg/L	2.478	0.50%
Cr 267.716	1186333.5	2.7535	mg/L	0.01652	2.7535	mg/L	0.01652	0.60%
Cu 324.752	1287931.9	2.1464	mg/L	0.00733	2.1464	mg/L	0.00733	0.34%
Fe 273.955	37647595.6	617.13	mg/L	2.663	617.13	mg/L	2.663	0.43%
Mg 279.077	17250823.7	313.00	mg/L	1.682	313.00	mg/L	1.682	0.54%
Mn 257.610	9835246.8	17.501	mg/L	0.0919	17.501	mg/L	0.0919	0.53%
Ni 231.604	281609.1	2.7658	mg/L	0.02247	2.7658	mg/L	0.02247	0.81%
V 292.402	1702776.7	3.8705	mg/L	0.01999	3.8705	mg/L	0.01999	0.52%
Ca 227.546	100496.5	107.27	mg/L	1.085	107.27	mg/L	1.085	1.01%

Sequence No.: 39
Sample ID: A1905-28ASD,4954
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 39
Date Collected: 1/3/2003 10:39:25 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-28ASD,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Al 308.215	6361296.6	102.78	mg/L	0.281	102.78	mg/L	0.281	0.27%
Cr 267.716	169371.3	0.3938	mg/L	0.00199	0.3938	mg/L	0.00199	0.50%
Cu 324.752	106053.2	0.1894	mg/L	0.00140	0.1894	mg/L	0.00140	0.74%
Fe 273.955	9781683.5	160.35	mg/L	0.161	160.35	mg/L	0.161	0.10%
Mg 279.077	3350284.2	60.790	mg/L	0.3100	60.790	mg/L	0.3100	0.51%
Mn 257.610	2000896.9	3.5611	mg/L	0.02052	3.5611	mg/L	0.02052	0.58%
Ni 231.604	20325.1	0.1994	mg/L	0.00056	0.1994	mg/L	0.00056	0.28%
V 292.402	167689.2	0.3807	mg/L	0.00240	0.3807	mg/L	0.00240	0.63%

Ca 227.546	17849.7	18.636 mg/L	0.1219	18.636 mg/L	0.1219	0.65%

Sequence No.: 40
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 1/3/2003 10:42:01 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	614686.3	9.9316	mg/L	0.12198	9.9316	mg/L	0.12198	1.23%
Cr 267.716	435374.4	1.0087	mg/L	0.01022	1.0087	mg/L	0.01022	1.01%
Cu 324.752	776519.1	1.2562	mg/L	0.01569	1.2562	mg/L	0.01569	1.25%
Fe 273.955	315150.6	5.1661	mg/L	0.02141	5.1661	mg/L	0.02141	0.41%
Mg 279.077	1404186.5	25.484	mg/L	0.1910	25.484	mg/L	0.1910	0.75%
Mn 257.610	1400054.8	2.4898	mg/L	0.02068	2.4898	mg/L	0.02068	0.83%
Ni 231.604	247267.4	2.4297	mg/L	0.00381	2.4297	mg/L	0.00381	0.16%
V 292.402	1125081.2	2.5585	mg/L	0.03077	2.5585	mg/L	0.03077	1.20%
Ca 227.546	21981.9	24.450	mg/L	0.0028	24.450	mg/L	0.0028	0.01%

Sequence No.: 41
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 1/3/2003 10:44:27 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	537.1	0.0087	mg/L	0.00188	0.0087	mg/L	0.00188	21.71%
Cr 267.716	78.7	0.0002	mg/L	0.00009	0.0002	mg/L	0.00009	46.73%
Cu 324.752	129.0	0.0002	mg/L	0.00008	0.0002	mg/L	0.00008	37.80%
Fe 273.955	426.7	0.0070	mg/L	0.00066	0.0070	mg/L	0.00066	9.37%
Mg 279.077	418.7	0.0076	mg/L	0.00067	0.0076	mg/L	0.00087	11.48%
Mn 257.610	179.6	0.0003	mg/L	0.00003	0.0003	mg/L	0.00003	9.95%
Ni 231.604	8.9	0.0001	mg/L	0.00007	0.0001	mg/L	0.00007	80.55%
V 292.402	58.5	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	30.66%
Ca 227.546	82.9	0.0928	mg/L	0.00033	0.0928	mg/L	0.00033	0.36%

Sequence No.: 42
Sample ID: A1905-28A,4954
Analyst:
Sample Wt:
Dilution: 5 1.03
Autosampler Location: 52
Date Collected: 1/3/2003 10:46:48 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-28A,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	6273991.4	101.37	mg/L	1.194	101.37	mg/L	1.194	1.18%
Cr 267.716	166230.2	0.3865	mg/L	0.00023	0.3865	mg/L	0.00023	0.06%
Cu 324.752	103070.5	0.1842	mg/L	0.00070	0.1842	mg/L	0.00070	0.38%
Fe 273.955	9607090.1	157.48	mg/L	1.052	157.48	mg/L	1.052	0.67%
Mg 279.077	3326062.2	60.350	mg/L	0.2870	60.350	mg/L	0.2870	0.48%
Mn 257.610	1986638.9	3.5357	mg/L	0.00730	3.5357	mg/L	0.00730	0.21%
Ni 231.604	19942.5	0.1957	mg/L	0.00038	0.1957	mg/L	0.00038	0.20%
V 292.402	164894.7	0.3744	mg/L	0.00006	0.3744	mg/L	0.00006	0.02%
Ca 227.546	17464.0	18.229	mg/L	0.0332	18.229	mg/L	0.0332	0.18%

Sequence No.: 43
Sample ID: A1905-28ADUP,4954 1.03
Analyst:
Sample Wt:
Dilution: 5
Autosampler Location: 53
Date Collected: 1/3/2003 10:49:22 AM
Sample Prep Volume:
Data Type: Original

002050

Mean Data: A1905-28ADUP,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	6540174.8	105.67	mg/L	0.426	105.67	mg/L	0.426	0.40%
Cr 267.716	170896.4	0.3973	mg/L	0.00450	0.3973	mg/L	0.00450	1.13%
Cu 324.752	117626.0	0.2076	mg/L	0.00319	0.2076	mg/L	0.00319	1.54%
Fe 273.955	9657389.7	158.31	mg/L	0.494	158.31	mg/L	0.494	0.31%
Mg 279.077	3386469.6	61.447	mg/L	0.1924	61.447	mg/L	0.1924	0.31%
Mn 257.610	2105038.5	3.7463	mg/L	0.02815	3.7463	mg/L	0.02815	0.75%
Ni 231.604	21422.8	0.2102	mg/L	0.00157	0.2102	mg/L	0.00157	0.75%
V 292.402	168199.9	0.3819	mg/L	0.00533	0.3819	mg/L	0.00533	1.40%
Ca 227.546	17792.9	18.591	mg/L	0.2314	18.591	mg/L	0.2314	1.24%

Sequence No.: 44
Sample ID: A1905-28ASD,4954 1.03
Analyst:
Sample Wt:
Dilution: 5
Autosampler Location: 54
Date Collected: 1/3/2003 10:51:57 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-28ASD,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	1265570.7	20.448	mg/L	0.0838	20.448	mg/L	0.0838	0.41%
Cr 267.716	34381.9	0.0800	mg/L	0.00055	0.0800	mg/L	0.00055	0.68%
Cu 324.752	20557.0	0.0371	mg/L	0.00042	0.0371	mg/L	0.00042	1.14%
Fe 273.955	2107258.8	34.543	mg/L	0.0742	34.543	mg/L	0.0742	0.21%
Mg 279.077	703226.5	12.760	mg/L	0.0120	12.760	mg/L	0.0120	0.09%
Mn 257.610	423823.3	0.7543	mg/L	0.00205	0.7543	mg/L	0.00205	0.27%
Ni 231.604	4260.1	0.0418	mg/L	0.00031	0.0418	mg/L	0.00031	0.74%
V 292.402	33771.2	0.0767	mg/L	0.00046	0.0767	mg/L	0.00046	0.60%
Ca 227.546	3579.9	3.7169	mg/L	0.07153	3.7169	mg/L	0.07153	1.92%

Sequence No.: 45
Sample ID: A1905-28APDS,4954
Analyst:
Sample Wt:
Dilution: 1/3/03
Autosampler Location: 40
Date Collected: 1/3/2003 10:54:26 AM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-28APDS,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	28141154.0	454.68	mg/L	3.574	454.68	mg/L	3.574	0.79%
Cr 267.716	1042489.6	2.4200	mg/L	0.00588	2.4200	mg/L	0.00588	0.24%
Cu 324.752	1156134.1	1.9288	mg/L	0.00637	1.9288	mg/L	0.00637	0.33%
Fe 273.955	34876615.0	571.71	mg/L	3.733	571.71	mg/L	3.733	0.65%
Mg 279.077	15361963.5	278.73	mg/L	2.207	278.73	mg/L	2.207	0.79%
Mn 257.610	9001900.7	16.019	mg/L	0.1009	16.019	mg/L	0.1009	0.63%
Ni 231.604	271440.2	2.6660	mg/L	0.03368	2.6660	mg/L	0.03368	1.26%
V 292.402	1584216.6	3.6008	mg/L	0.01106	3.6008	mg/L	0.01106	0.31%
Ca 227.546	101540.2	108.83	mg/L	1.134	108.83	mg/L	1.134	1.04%

Sequence No.: 46
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 5
Date Collected: 1/3/2003 10:57:04 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	30129702.5	486.85	mg/L	3.305	486.85	mg/L	3.305	0.47%
Cr 267.716	-707.8	0.0005	mg/L	0.00012	0.0005	mg/L	0.00012	22.55%
Cu 324.752	-9947.6	0.0063	mg/L	0.00014	0.0063	mg/L	0.00014	2.22%

002051

Fe 273.955	10546967.9	172.89 mg/L	0.475	172.89 mg/L	0.475	0.27%
Mg 279.077	25725019.2	466.63 mg/L	1.112	466.63 mg/L	1.112	0.24%
Mn 257.610	-3804.0	-0.0079 mg/L	0.00008	-0.0079 mg/L	0.00008	0.99%
Ni 231.604	225.4	0.0022 mg/L	0.00075	0.0022 mg/L	0.00075	33.87%
V 292.402	-265.5	-0.0020 mg/L	0.00001	-0.0020 mg/L	0.00001	0.70%
Ca 227.546	452175.9	505.34 mg/L	2.641	505.34 mg/L	2.641	0.52%

Sequence No.: 47
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 6
Date Collected: 1/3/2003 10:59:42 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	32119574.3	518.96	mg/L	1.466	518.96	mg/L	1.466	0.28%
Cr 267.716	215937.7	0.5025	mg/L	0.00486	0.5025	mg/L	0.00486	0.97%
Cu 324.752	329626.1	0.5559	mg/L	0.00687	0.5559	mg/L	0.00687	1.24%
Fe 273.955	11132848.1	182.49	mg/L	0.433	182.49	mg/L	0.433	0.24%
Mg 279.077	27150039.1	492.48	mg/L	1.447	492.48	mg/L	1.447	0.29%
Mn 257.610	278502.9	0.4942	mg/L	0.00442	0.4942	mg/L	0.00442	0.89%
Ni 231.604	92142.7	0.9054	mg/L	0.00769	0.9054	mg/L	0.00769	0.85%
V 292.402	230291.4	0.5228	mg/L	0.00497	0.5228	mg/L	0.00497	0.95%
Ca 227.546	479394.5	535.72	mg/L	7.750	535.72	mg/L	7.750	1.45%

Sequence No.: 48
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 1/3/2003 11:02:19 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	616480.3	9.9605	mg/L	0.08234	9.9605	mg/L	0.08234	0.83%
Cr 267.716	434446.5	1.0066	mg/L	0.00678	1.0066	mg/L	0.00678	0.67%
Cu 324.752	779509.3	1.2578	mg/L	0.00834	1.2578	mg/L	0.00834	0.66%
Fe 273.955	314124.5	5.1493	mg/L	0.00444	5.1493	mg/L	0.00444	0.09%
Mg 279.077	1402136.7	25.446	mg/L	0.1406	25.446	mg/L	0.1406	0.55%
Mn 257.610	1396213.3	2.4830	mg/L	0.01489	2.4830	mg/L	0.01489	0.60%
Ni 231.604	246811.6	2.4252	mg/L	0.00051	2.4252	mg/L	0.00051	0.02%
V 292.402	1122264.6	2.5521	mg/L	0.01610	2.5521	mg/L	0.01610	0.63%
Ca 227.546	21970.2	24.437	mg/L	0.1557	24.437	mg/L	0.1557	0.64%

Sequence No.: 49
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 1/3/2003 11:04:45 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	650.7	0.0105	mg/L	0.00090	0.0105	mg/L	0.00090	8.60%
Cr 267.716	19.5	0.0000	mg/L	0.00007	0.0000	mg/L	0.00007	164.86%
Cu 324.752	239.8	0.0004	mg/L	0.00008	0.0004	mg/L	0.00008	21.14%
Fe 273.955	363.8	0.0060	mg/L	0.00196	0.0060	mg/L	0.00196	32.92%
Mg 279.077	297.0	0.0054	mg/L	0.00129	0.0054	mg/L	0.00129	23.97%
Mn 257.610	138.4	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	21.48%
Ni 231.604	25.8	0.0003	mg/L	0.00052	0.0003	mg/L	0.00052	204.76%
V 292.402	118.3	0.0003	mg/L	0.00014	0.0003	mg/L	0.00014	53.48%
Ca 227.546	93.4	0.1046	mg/L	0.11435	0.1046	mg/L	0.11435	109.31%

002052

Reprocessing Begun
Logged In Analyst: Optimal
Technique: ICP Continuous

Results Data Set (original): 010301
Results Library (original): D:\pe\administrator\Results\Results.mdb
Results Data Set (reprocessed):
Results Library (reprocessed):

Method Loaded
Method Name: B_6010
IEC File:
Method Description: working method for all elements
Method Last Saved: 1/3/03 10:32:16 AM
MSF File:

Sequence No.: 1
Sample ID: S0
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 1/3/03 10:39:43 AM
Sample Prep Volume:
Data Type: Reprocessed on 1/9/03 9:00:55 AM,

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
B 249.772	269.9	21.01	7.25%	[0.00]	mg/L

Sequence No.: 2
Sample ID: S1
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 9
Date Collected: 1/3/03 10:41:58 AM
Sample Prep Volume:
Data Type: Reprocessed on 1/9/03 9:00:55 AM,

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
B 249.772	111748.1	708.89	0.63%	[5]	mg/L

Sequence No.: 3
Sample ID: S2
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 10
Date Collected: 1/3/03 10:44:14 AM
Sample Prep Volume:
Data Type: Reprocessed on 1/9/03 9:00:55 AM,

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
B 249.772	63949.3	67.09	0.10%	[2.5]	mg/L

Sequence No.: 4
Sample ID: S3
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 11
Date Collected: 1/3/03 10:46:31 AM
Sample Prep Volume:
Data Type: Reprocessed on 1/9/03 9:00:55 AM,

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
B 249.772	12394.2	99.23	0.80%	[0.5]	mg/L

Calibration Summary

002053

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
B 249.772	3	Lin Thru 0	0.0	23010	0.00000	0.998416	

Sequence No.: 5
Sample ID: CHECK
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 9
Date Collected: 1/3/03 10:48:48 AM
Sample Prep Volume:
Data Type: Reprocessed on 1/9/03 9:00:55 AM,

Mean Data: CHECK

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	115116.6	5.0029	mg/L	0.11022	5.0029	mg/L	0.11022	2.20%

Sequence No.: 6
Sample ID: BADICV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 1/3/03 10:51:04 AM
Sample Prep Volume:
Data Type: Reprocessed on 1/9/03 9:00:55 AM,

Mean Data: BADICV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	49080.3	2.1678	mg/L	0.00898	2.1678	mg/L	0.00898	0.41%

Sequence No.: 7
Sample ID: ICV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 1/3/03 10:55:56 AM
Sample Prep Volume:
Data Type: Reprocessed on 1/9/03 9:00:55 AM,

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	54326.1	2.3610	mg/L	0.00005	2.3610	mg/L	0.00005	0.00%

Sequence No.: 8
Sample ID: ICB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 1/3/03 10:58:14 AM
Sample Prep Volume:
Data Type: Reprocessed on 1/9/03 9:00:55 AM,

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	1713.2	0.0745	mg/L	0.00126	0.0745	mg/L	0.00126	1.69%

Sequence No.: 9
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 5
Date Collected: 1/3/03 11:00:33 AM
Sample Prep Volume:
Data Type: Reprocessed on 1/9/03 9:00:56 AM,

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	6657.9	0.2893	mg/L	0.00210	0.2893	mg/L	0.00210	0.73%

Sequence No.: 10
Sample ID: ICSAB
Autosampler Location: 6
Date Collected: 1/3/03 11:02:52 AM

Analyst:
Sample Wt:
Dilution:
Sample Prep Volume:
Data Type: Reprocessed on 1/9/03 9:00:56 AM,

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	6201.9	0.2695	mg/L	0.00354	0.2695	mg/L	0.00354	1.31%

Sequence No.: 11
Sample ID: MB-4955,4955
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 17
Date Collected: 1/3/03 11:05:13 AM
Sample Prep Volume:
Data Type: Reprocessed on 1/9/03 9:00:56 AM,

Mean Data: MB-4955,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	1045.4	0.0454	mg/L	0.00009	0.0454	mg/L	0.00009	0.19%

Sequence No.: 12
Sample ID: LCS-4955,4955
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 18
Date Collected: 1/3/03 11:07:28 AM
Sample Prep Volume:
Data Type: Reprocessed on 1/9/03 9:00:56 AM,

Mean Data: LCS-4955,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	935.1	0.0406	mg/L	0.00033	0.0406	mg/L	0.00033	0.80%

Sequence No.: 13
Sample ID: A1905-16B,4955
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 19
Date Collected: 1/3/03 11:09:43 AM
Sample Prep Volume:
Data Type: Reprocessed on 1/9/03 9:00:56 AM,

Mean Data: A1905-16B,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	67251.9	2.9227	mg/L	0.01320	2.9227	mg/L	0.01320	0.45%

Sequence No.: 14
Sample ID: A1905-16C,4955
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 20
Date Collected: 1/3/03 11:11:59 AM
Sample Prep Volume:
Data Type: Reprocessed on 1/9/03 9:00:56 AM,

Mean Data: A1905-16C,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	59129.5	2.5697	mg/L	0.01468	2.5697	mg/L	0.01468	0.57%

Sequence No.: 15
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 1/3/03 11:14:17 AM
Sample Prep Volume:
Data Type: Reprocessed on 1/9/03 9:00:56 AM,

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	54186.3	2.3549	mg/L	0.03827	2.3549	mg/L	0.03827	1.63%

Sequence No.: 16
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 1/3/03 11:16:34 AM
Sample Prep Volume:
Data Type: Reprocessed on 1/9/03 9:00:56 AM,

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	2032.6	0.0883	mg/L	0.00028	0.0883	mg/L	0.00028	0.31%

Sequence No.: 17
Sample ID: A1905-18B,4955
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 21
Date Collected: 1/3/03 11:18:53 AM
Sample Prep Volume:
Data Type: Reprocessed on 1/9/03 9:00:56 AM,

Mean Data: A1905-18B,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	23029.4	1.0008	mg/L	0.01919	1.0008	mg/L	0.01919	1.92%

Sequence No.: 18
Sample ID: A1905-18C,4955
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 22
Date Collected: 1/3/03 11:21:13 AM
Sample Prep Volume:
Data Type: Reprocessed on 1/9/03 9:00:56 AM,

Mean Data: A1905-18C,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	33478.3	1.4550	mg/L	0.00685	1.4550	mg/L	0.00685	0.47%

Sequence No.: 19
Sample ID: A1905-18BSD,4955
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 23
Date Collected: 1/3/03 11:23:30 AM
Sample Prep Volume:
Data Type: Reprocessed on 1/9/03 9:00:56 AM,

Mean Data: A1905-18BSD,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	4962.3	0.2157	mg/L	0.00288	0.2157	mg/L	0.00288	1.34%

Sequence No.: 20
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 5
Date Collected: 1/3/03 11:25:48 AM
Sample Prep Volume:
Data Type: Reprocessed on 1/9/03 9:00:56 AM,

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	6710.5	0.2916	mg/L	0.00463	0.2916	mg/L	0.00463	1.59%

Sequence No.: 21
Autosampler Location: 6

Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:
Date Collected: 1/3/03 11:28:08 AM
Sample Prep Volume:
Data Type: Reprocessed on 1/9/03 9:00:56 AM,

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	6209.3	0.2699	mg/L	0.00399	0.2699	mg/L	0.00399	1.48%

Sequence No.: 22
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 1/3/03 11:30:29 AM
Sample Prep Volume:
Data Type: Reprocessed on 1/9/03 9:00:56 AM,

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	52529.4	2.2829	mg/L	0.02276	2.2829	mg/L	0.02276	1.00%

Sequence No.: 23
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 1/3/03 11:32:46 AM
Sample Prep Volume:
Data Type: Reprocessed on 1/9/03 9:00:56 AM,

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
B 249.772	1480.5	0.0643	mg/L	0.00263	0.0643	mg/L	0.00263	4.09%

Analysis Begun

Start Time: 1/3/03 11:35:33 AM
Logged In Analyst: Optimal
Spectrometer Model: Optima 3000 DV
Plasma On Time: 1/3/03 10:19:26 AM
Technique: ICP Continuous
Autosampler Model: AS-90

Sample Information File: D:\pe\administrator\Sample Information\Evan.sif
Results Data Set: 010302
Results Library: D:\pe\administrator\Results\Results.mdb

Method Loaded
Method Name: Na 6010
IEC File:
Method Description: Na 6010
Method Last Saved: 6/27/02 2:35:33 PM
MSF File:

Sequence No.: 1
Sample ID: S0
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 1/3/03 11:35:33 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units	Sample Conc. Units	Std.Dev.	RSD
Na 589.592	2965.7	1.02	0.03%	[0.00] mg/L			

Sequence No.: 2
Sample ID: S1
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 2
Date Collected: 1/3/03 11:37:49 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units	Sample Conc. Units	Std.Dev.	RSD
Na 589.592	157820.8	55.54	0.04%	[50] mg/L			

Sequence No.: 3
Sample ID: S2
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 9
Date Collected: 1/3/03 11:40:07 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units	Sample Conc. Units	Std.Dev.	RSD
Na 589.592	77733.9	543.89	0.70%	[25] mg/L			

Sequence No.: 4
Sample ID: S3
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 10
Date Collected: 1/3/03 11:42:22 AM
Sample Prep Volume:
Data Type: Original

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units	Sample Conc. Units	Std.Dev.	RSD
Na 589.592	1246.6	84.57	6.78%	[0.5] mg/L			

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Residue
Na 589.592	3	Lin Thru 0	0.0	3147	0.00000	0.999980	

Sequence No.: 5
Sample ID: CHECK
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 2
Date Collected: 1/3/03 11:44:39 AM
Sample Prep Volume:
Data Type: Original

Mean Data: CHECK

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Na 589.592	158633.9	50.409	mg/L	0.2706	50.409	mg/L	0.2706	0.54%

Sequence No.: 6
Sample ID: LRA
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 16
Date Collected: 1/3/03 11:46:56 AM
Sample Prep Volume:
Data Type: Original

Mean Data: LRA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Na 589.592	868.1	0.2759	mg/L	0.01106	0.2759	mg/L	0.01106	4.01%

Analysis Begun

Start Time: 1/3/03 11:49:00 AM
Logged In Analyst: Optimal
Spectrometer Model: Optima 3000 DV
Plasma On Time: 1/3/03 10:19:26 AM
Technique: ICP Continuous
Autosampler Model: AS-90

Sample Information File: D:\pe\administrator\Sample Information\Evan.sif
Results Data Set: 010302
Results Library: D:\pe\administrator\Results\Results.mdb

Sequence No.: 6
Sample ID: LRA
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 16
Date Collected: 1/3/03 11:49:00 AM
Sample Prep Volume:
Data Type: Original

Mean Data: LRA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Na 589.592	629754.4	200.12	mg/L	0.476	200.12	mg/L	0.476	0.24%

Sequence No.: 7
Sample ID: ICV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 1/3/03 11:51:24 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Na 589.592	79684.2	25.321	mg/L	0.0898	25.321	mg/L	0.0898	0.35%

Sequence No.: 8
Sample ID: ICB
Autosampler Location: 4
Date Collected: 1/3/03 11:53:42 AM

Analyst:
Sample Wt:
Dilution:
Sample Prep Volume:
Data Type: Original

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Na 589.592	182.7	0.0581	mg/L	0.00751	0.0581	mg/L	0.00751	12.94%

Sequence No.: 9
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 5
Date Collected: 1/3/03 11:56:01 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Na 589.592	1729.2	0.5495	mg/L	0.01485	0.5495	mg/L	0.01485	2.70%

Sequence No.: 10
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 6
Date Collected: 1/3/03 11:58:20 AM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Na 589.592	188342.2	59.849	mg/L	0.1726	59.849	mg/L	0.1726	0.29%

Sequence No.: 11
Sample ID: MB-4955,4955
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 17
Date Collected: 1/3/03 12:00:42 PM
Sample Prep Volume:
Data Type: Original

Mean Data: MB-4955,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Na 589.592	0.4	0.0001	mg/L	0.01400	0.0001	mg/L	0.01400	>999.9%

Sequence No.: 12
Sample ID: LCS-4955,4955
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 18
Date Collected: 1/3/03 12:02:57 PM
Sample Prep Volume:
Data Type: Original

Mean Data: LCS-4955,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Na 589.592	68896.2	21.893	mg/L	0.1850	21.893	mg/L	0.1850	0.84%

Sequence No.: 13
Sample ID: A1905-14B,4955
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 19
Date Collected: 1/3/03 12:05:12 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-14B,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Na 589.592	27551.8	8.7551	mg/L	0.05001	8.7551	mg/L	0.05001	0.57%

Sequence No.: 14
Sample ID: A1905-26A,4955
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 24
Date Collected: 1/3/03 12:07:28 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-26A,4955

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Na 589.592	-230.2	-0.0732	mg/L	0.02625	-0.0732	mg/L	0.02625	35.88%

Sequence No.: 15
Sample ID: MB-4917,4917
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 25
Date Collected: 1/3/03 12:09:47 PM
Sample Prep Volume:
Data Type: Original

Mean Data: MB-4917,4917

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Na 589.592	-813.7	-0.2586	mg/L	0.01166	-0.2586	mg/L	0.01166	4.51%

Sequence No.: 16
Sample ID: LCS-4917,4917
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 26
Date Collected: 1/3/03 12:12:06 PM
Sample Prep Volume:
Data Type: Original

Mean Data: LCS-4917,4917

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Na 589.592	68548.3	21.782	mg/L	0.1502	21.782	mg/L	0.1502	0.69%

Sequence No.: 17
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 1/3/03 12:14:25 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Na 589.592	75360.1	23.947	mg/L	0.1682	23.947	mg/L	0.1682	0.70%

Sequence No.: 18
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 1/3/03 12:16:43 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Na 589.592	-1029.0	-0.3270	mg/L	0.00937	-0.3270	mg/L	0.00937	2.87%

Sequence No.: 19
Autosampler Location: 27

Sample ID: A1905-07A,4917
Analyst:
Sample Wt:
Dilution:
Date Collected: 1/3/03 12:19:02 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-07A,4917

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	2127.5	0.6760	mg/L	0.00198	0.6760	mg/L	0.00198	0.29%

Sequence No.: 20
Sample ID: A1905-08A,4917
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 28
Date Collected: 1/3/03 12:21:21 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-08A,4917

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	1980.6	0.6294	mg/L	0.01184	0.6294	mg/L	0.01184	1.88%

Sequence No.: 21
Sample ID: A1905-10A,4917
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 29
Date Collected: 1/3/03 12:23:42 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-10A,4917

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	-880.4	-0.2798	mg/L	0.01626	-0.2798	mg/L	0.01626	5.81%

Sequence No.: 22
Sample ID: MB-4916,4916
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 30
Date Collected: 1/3/03 12:26:03 PM
Sample Prep Volume:
Data Type: Original

Mean Data: MB-4916,4916

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	-931.1	-0.2959	mg/L	0.00565	-0.2959	mg/L	0.00565	1.91%

Sequence No.: 23
Sample ID: LCS-4916,4916
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 31
Date Collected: 1/3/03 12:28:24 PM
Sample Prep Volume:
Data Type: Original

Mean Data: LCS-4916,4916

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	70346.0	22.354	mg/L	0.0961	22.354	mg/L	0.0961	0.43%

Sequence No.: 24
Sample ID: A1905-06C,4916 1.028
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 32
Date Collected: 1/3/03 12:30:46 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-06C,4916

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	35324.4	11.225	mg/L	0.1499	11.225	mg/L	0.1499	1.34%

Sequence No.: 25
Sample ID: MB-4954,4954
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 33
Date Collected: 1/3/03 12:33:01 PM
Sample Prep Volume:
Data Type: Original

Mean Data: MB-4954,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	-872.8	-0.2773	mg/L	0.00800	-0.2773	mg/L	0.00800	2.88%

Sequence No.: 26
Sample ID: LCS-4954,4954
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 34
Date Collected: 1/3/03 12:35:16 PM
Sample Prep Volume:
Data Type: Original

Mean Data: LCS-4954,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	69491.5	22.082	mg/L	0.1831	22.082	mg/L	0.1831	0.83%

Sequence No.: 27
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 1/3/03 12:37:31 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	75791.7	24.084	mg/L	0.1987	24.084	mg/L	0.1987	0.82%

Sequence No.: 28
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 1/3/03 12:39:49 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	-1369.7	-0.4352	mg/L	0.00453	-0.4352	mg/L	0.00453	1.04%

Sequence No.: 29
Sample ID: A1905-15C,4954
Analyst:
Sample Wt:
Dilution:
1.028
Autosampler Location: 35
Date Collected: 1/3/03 12:42:08 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-15C,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	82113.4	26.093	mg/L	0.0431	26.093	mg/L	0.0431	0.17%

Sequence No.: 30
Sample ID: A1905-28A,4954
Analyst:
Sample Wt:
Dilution:
1.028
Autosampler Location: 36
Date Collected: 1/3/03 12:44:24 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-28A,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	17110.4	5.4371	mg/L	0.00191	5.4371	mg/L	0.00191	0.04%

Sequence No.: 31
Sample ID: A1905-28ADUP,4954
Analyst:
Sample Wt:
Dilution:
1.028
Autosampler Location: 37
Date Collected: 1/3/03 12:46:41 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-28ADUP,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	20496.9	6.5132	mg/L	0.08960	6.5132	mg/L	0.08960	1.38%

Sequence No.: 32
Sample ID: A1905-28ASD,4954
Analyst:
Sample Wt:
Dilution:
1.028
Autosampler Location: 39
Date Collected: 1/3/03 12:48:58 PM
Sample Prep Volume:
Data Type: Original

Mean Data: A1905-28ASD,4954

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	2259.9	0.7181	mg/L	0.00764	0.7181	mg/L	0.00764	1.06%

Sequence No.: 33
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 5
Date Collected: 1/3/03 12:51:15 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	-321.2	-0.1021	mg/L	0.00408	-0.1021	mg/L	0.00408	3.99%

Sequence No.: 34
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 6
Date Collected: 1/3/03 12:53:35 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	187558.7	59.600	mg/L	0.6141	59.600	mg/L	0.6141	1.03%

Sequence No.: 35
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 1/3/03 12:55:57 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	75688.8	24.051	mg/L	0.1197	24.051	mg/L	0.1197	0.50%

Sequence No.: 36
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 1/3/03 12:58:14 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Na 589.592	-1248.9	-0.3969	mg/L	0.01169	-0.3969	mg/L	0.01169	2.95%

H122601D

Method Name: HG_COMM
Method Description: Hgcomm
Element: Hg

Date: 12/26/2002
Technique:FI-MHS
Calibration Type:
Hg, Zero Intercept: Linear
Wavelength: 253.7 nm
Sample Info Name: EVAN.SIF

A1896-02 Sol+TCLP A1899-02
A1901-1-4 A1909-1015-4
A1905-1-3,06 Sol+7,8,10-Aq A1903-1-6
Good for Hg

Results Data Set Name: H122601

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 12/26/2002
Sample ID: S0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0003	0.0014	0.0003	11:59:28	Yes
2			0.0003	0.0022	0.0003	11:59:57	Yes
Mean:			0.0003				
SD :			0.0000				
%RSD:			6.9547				

Auto-zero performed.

Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 12/26/2002
Sample ID: S0.2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0027	0.0145	0.0030	12:00:47	Yes
2			0.0028	0.0155	0.0032	12:01:16	Yes
Mean:			0.0028				
SD :			0.0001				
%RSD:			3.5808				

[Hg] Standard number 1 applied. [0.20]
Correlation Coefficient: 1.00000 Slope: 0.01390

Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 12/26/2002
Sample ID: S1.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0161	0.0857	0.0164	12:02:07	Yes
2			0.0159	0.0881	0.0162	12:02:36	Yes
Mean:			0.0160				
SD :			0.0002				
%RSD:			0.9387				

[Hg] Standard number 2 applied. [1.00]
Correlation Coefficient: 0.99897 Slope: 0.01591

Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 12/26/2002
Sample ID: S2.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0327	0.1752	0.0330	12:03:27	Yes
2			0.0328	0.1760	0.0331	12:03:56	Yes
Mean:			0.0327				
SD :			0.0001				
%RSD:			0.2323				

[Hg] Standard number 3 applied. [2.00]
Correlation Coefficient: 0.99961 Slope: 0.01626

2066

Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 12/26/2002
Sample ID: S5.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0789	0.4146	0.0792	12:04:47	Yes
2			0.0783	0.4127	0.0786	12:05:16	Yes
Mean:			0.0786				
SD :			0.0004				
%RSD:			0.5615				

[Hg] Standard number 4 applied. [5.00]
Correlation Coefficient: 0.99976 Slope: 0.01581

Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 12/26/2002
Sample ID: S10.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.1723	0.8992	0.1726	12:06:07	Yes
2			0.1716	0.8996	0.1720	12:06:36	Yes
Mean:			0.1720				
SD :			0.0005				
%RSD:			0.2644				

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99873 Slope: 0.01690

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
S0	0.0003	--	----	----	----
S0.2	0.0028	0.20	0.16	0.000	3.6
S1.0	0.0160	1.00	0.95	0.000	0.9
S2.0	0.0327	2.00	1.94	0.000	0.2
S5.0	0.0786	5.00	4.65	0.000	0.6
S10.0	0.1720	10.00	10.18	0.000	0.3

Correlation Coefficient: 0.99873 Slope: 0.01690 ----

Element: Hg Seq. No.: 7 AS Loc.: 7 Date: 12/26/2002
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.07	5.07	0.0857	0.4427	0.0860	12:07:26	Yes
2	5.07	5.07	0.0856	0.4423	0.0859	12:07:55	Yes
Mean:	5.07	5.07	0.0856				
SD :	0.002	0.002	0.0000				
%RSD:							

QC value within specified limits.

Element: Hg Seq. No.: 8 AS Loc.: 1 Date: 12/26/2002
Sample ID: ICB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0000	0.0008	0.0003	12:08:47	Yes
2	0.00	0.00	0.0000	0.0009	0.0004	12:09:16	Yes
Mean:	0.00	0.00	0.0000				
SD :	0.002	0.002	0.0000				
%RSD:	146.6	146.6	146.6260				

QC value within specified limits.

002067

Element: Hg Seq. No.: 9 AS Loc.: 9 Date: 12/26/2002
Sample ID: MB-4914

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0002	-0.0001	0.0002	12:10:07	Yes
2	-0.01	-0.01	-0.0001	0.0007	0.0002	12:10:36	Yes
Mean:	-0.01	-0.01	-0.0001				
SD :	0.003	0.003	0.0000				
%RSD:	40.9	40.9	40.8865				

Element: Hg Seq. No.: 10 AS Loc.: 10 Date: 12/26/2002
Sample ID: LCS-4914 101%

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.58	4.58	0.0774	0.3986	0.0778	12:11:26	Yes
2	4.58	4.58	0.0774	0.3987	0.0778	12:11:55	Yes
Mean:	4.58	4.58	0.0774				
SD :	0.000	0.000	0.0000				
%RSD:							

Element: Hg Seq. No.: 11 AS Loc.: 11 Date: 12/26/2002
Sample ID: A1896-02A 0.66g

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0001	-0.0017	0.0002	12:12:45	Yes
2	0.00	0.00	0.0000	0.0000	0.0003	12:13:14	Yes
Mean:	0.00	0.00	-0.0001				
SD :	0.002	0.002	0.0000				
%RSD:	60.4	60.4	60.3827				

12/26/02

Element: Hg Seq. No.: 12 AS Loc.: 12 Date: 12/26/2002
Sample ID: ~~MB-4888~~ LCS-4915 87%
Entry error

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.95	3.95	0.0668	0.3535	0.0671	12:14:04	Yes
2	3.96	3.96	0.0669	0.3534	0.0673	12:14:33	Yes
Mean:	3.96	3.96	0.0669				
SD :	0.007	0.007	0.0001				
%RSD:	0.2	0.2	0.1811				

Element: Hg Seq. No.: 13 AS Loc.: 13 Date: 12/26/2002
Sample ID: ~~LCS-4915~~ Blank MB-4888 100mL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.36	0.36	0.0061	0.0311	0.0064	12:15:23	Yes
2	-0.02	-0.02	-0.0003	-0.0008	0.0000	12:15:52	Yes
Mean:	0.17	0.17	0.0029				
SD :	0.270	0.270	0.0046				
%RSD:	157.1	157.1	157.1071				

12/26/02

Element: Hg Seq. No.: 14 AS Loc.: 14 Date: 12/26/2002
Sample ID: A1896-02A 100mL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.05	0.05	0.0008	0.0057	0.0011	12:16:42	Yes
2	0.05	0.05	0.0008	0.0055	0.0011	12:17:11	Yes
Mean:	0.05	0.05	0.0008				

002068

SD :	0.001	0.001	0.0000
%RSD:	1.2	1.2	1.1562

Element: Hg Seq. No.: 15 AS Loc.: 15 Date: 12/26/2002
Sample ID: MB-4915

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.03	0.03	0.0005	0.0048	0.0008	12:18:01	Yes
2	0.03	0.03	0.0005	0.0046	0.0009	12:18:30	Yes
Mean:	0.03	0.03	0.0005				
SD :	0.001	0.001	0.0000				
%RSD:	3.9	3.9	3.8742				

Element: Hg Seq. No.: 16 AS Loc.: 16 Date: 12/26/2002
Sample ID: A1901-01A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	47.23	47.23	0.7980	4.3519	0.7984	12:19:20	Yes

Sample absorbance is greater than that of the highest standard.

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
2	46.78	46.78	0.7905	4.3401	0.7908	12:19:49	Yes

Sample absorbance is greater than that of the highest standard.

Mean:	47.01	47.01	0.7943
SD :	0.317	0.317	0.0054
%RSD:	0.7	0.7	0.6750

Sample absorbance is greater than that of the highest standard.

12/26/02

Element: Hg Seq. No.: 17 AS Loc.: 7 Date: 12/26/2002
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.03	5.03	0.0850	0.4382	0.0853	12:20:40	Yes
2	5.00	5.00	0.0846	0.4384	0.0849	12:21:10	Yes
Mean:	5.02	5.02	0.0848				
SD :	0.018	0.018	0.0003				
%RSD:	0.4	0.4	0.3610				

QC value within specified limits.

Element: Hg Seq. No.: 18 AS Loc.: 1 Date: 12/26/2002
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02	0.02	0.0003	0.0024	0.0006	12:22:02	Yes
2	0.02	0.02	0.0004	0.0032	0.0007	12:22:32	Yes
Mean:	0.02	0.02	0.0003				
SD :	0.003	0.003	0.0000				
%RSD:	14.4	14.4	14.4405				

QC value within specified limits.

Element: Hg Seq. No.: 19 AS Loc.: 17 Date: 12/26/2002
Sample ID: A1901-01ADUP

12/26/02

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	33.54	33.54	0.5667	3.0157	0.5670	12:23:22	Yes

Sample absorbance is greater than that of the highest standard.

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
2	33.20	33.20	0.5609	3.0096	0.5612	12:23:51	Yes

Sample absorbance is greater than that of the highest standard.

Mean:	33.37	33.37	0.5638

002069

SD :	0.243	0.243	0.0041
%RSD:	0.7	0.7	0.7270

Sample absorbance is greater than that of the highest standard.

Element: Hg Seq. No.: 20 AS Loc.: 18 Date: 12/26/2002
Sample ID: A1901-01AMS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	36.06	36.06	0.6093	3.2824	0.6097	12:24:41	Yes
	Sample absorbance is greater than that of the highest standard.						
2	35.93	35.93	0.6072	3.2681	0.6075	12:25:10	Yes
	Sample absorbance is greater than that of the highest standard.						
Mean:	36.00	36.00	0.6082				
SD :	0.092	0.092	0.0015				
%RSD:	0.3	0.3	0.2548				

Sample absorbance is greater than that of the highest standard.

Element: Hg Seq. No.: 21 AS Loc.: 19 Date: 12/26/2002
Sample ID: A1901-02A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	67.86	67.86	1.1465	6.7022	1.1469	12:26:00	Yes
	Sample absorbance is greater than that of the highest standard.						
2	67.80	67.80	1.1455	6.6886	1.1459	12:26:29	Yes
	Sample absorbance is greater than that of the highest standard.						
Mean:	67.83	67.83	1.1460				
SD :	0.041	0.041	0.0007				
%RSD:							

Sample absorbance is greater than that of the highest standard.

Element: Hg Seq. No.: 22 AS Loc.: 20 Date: 12/26/2002
Sample ID: A1901-03A 0.60g

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.67	1.67	0.0283	0.1441	0.0286	12:27:19	Yes
2	1.67	1.67	0.0282	0.1448	0.0285	12:27:48	Yes
Mean:	1.67	1.67	0.0282				
SD :	0.004	0.004	0.0001				
%RSD:	0.3	0.3	0.2620				

Element: Hg Seq. No.: 23 AS Loc.: 21 Date: 12/26/2002
Sample ID: A19001-04A 0.73g

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.74	2.74	0.0463	0.2421	0.0467	12:28:38	Yes
2	2.73	2.73	0.0461	0.2413	0.0465	12:29:08	Yes
Mean:	2.74	2.74	0.0462				
SD :	0.008	0.008	0.0001				
%RSD:	0.3	0.3	0.3089				

Element: Hg Seq. No.: 24 AS Loc.: 22 Date: 12/26/2002
Sample ID: A1905-01D 0.67g

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.75	0.75	0.0128	0.0688	0.0131	12:29:58	Yes
2	0.75	0.75	0.0127	0.0672	0.0130	12:30:27	Yes
Mean:	0.75	0.75	0.0127				

002070

SD :	0.004	0.004	0.0001
%RSD:	0.6	0.6	0.5569

Element: Hg Seq. No.: 25 AS Loc.: 23 Date: 12/26/2002
Sample ID: A1905-02D 0.71g

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01	0.01	0.0002	0.0038	0.0006	12:31:17	Yes
2	0.02	0.02	0.0003	0.0045	0.0006	12:31:46	Yes
Mean:	0.01	0.01	0.0002				
SD :	0.001	0.001	0.0000				
%RSD:	7.5	7.5	7.5218				

Element: Hg Seq. No.: 26 AS Loc.: 24 Date: 12/26/2002
Sample ID: A1905-03D 0.65g

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01	0.01	0.0002	0.0030	0.0005	12:32:36	Yes
2	0.01	0.01	0.0001	0.0018	0.0004	12:33:05	Yes
Mean:	0.01	0.01	0.0002				
SD :	0.003	0.003	0.0001				
%RSD:	37.2	37.2	37.2114				

Element: Hg Seq. No.: 27 AS Loc.: 7 Date: 12/26/2002
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.09	5.09	0.0860	0.4445	0.0863	12:33:57	Yes
2	5.12	5.12	0.0866	0.4438	0.0869	12:34:26	Yes
Mean:	5.11	5.11	0.0863				
SD :	0.025	0.025	0.0004				
%RSD:	0.5	0.5	0.4939				

QC value within specified limits.

Element: Hg Seq. No.: 28 AS Loc.: 1 Date: 12/26/2002
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0001	0.0008	0.0004	12:35:18	Yes
2	0.01	0.01	0.0001	0.0016	0.0004	12:35:47	Yes
Mean:	0.01	0.01	0.0001				
SD :	0.002	0.002	0.0000				
%RSD:	28.9	28.9	28.9166				

QC value within specified limits.

Element: Hg Seq. No.: 29 AS Loc.: 25 Date: 12/26/2002
Sample ID: A1905-06C 0.69g

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.08	0.08	0.0014	0.0078	0.0017	12:36:39	Yes
2	0.09	0.09	0.0015	0.0091	0.0018	12:37:08	Yes
Mean:	0.08	0.08	0.0014				
SD :	0.004	0.004	0.0001				
%RSD:	4.9	4.9	4.9129				

Element: Hg Seq. No.: 30 AS Loc.: 26 Date: 12/26/2002

002071

Sample ID: A1905-07A 126mL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.05	0.05	0.0008	0.0053	0.0011	12:37:58	Yes
2	0.05	0.05	0.0008	0.0045	0.0011	12:38:27	Yes
Mean:	0.05	0.05	0.0008				
SD :	0.001	0.001	0.0000				
%RSD:	2.7	2.7	2.6943				

Element: Hg Seq. No.: 31 AS Loc.: 27 Date: 12/26/2002
Sample ID: A1905-08A 128mL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.04	0.04	0.0008	0.0056	0.0011	12:39:17	Yes
2	0.04	0.04	0.0007	0.0042	0.0010	12:39:46	Yes
Mean:	0.04	0.04	0.0007				
SD :	0.003	0.003	0.0001				
%RSD:	7.3	7.3	7.2833				

Element: Hg Seq. No.: 32 AS Loc.: 28 Date: 12/26/2002
Sample ID: A1905-10A 126mL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.04	0.04	0.0007	0.0043	0.0010	12:40:36	Yes
2	0.04	0.04	0.0007	0.0045	0.0010	12:41:05	Yes
Mean:	0.04	0.04	0.0007				
SD :	0.002	0.002	0.0000				
%RSD:	4.2	4.2	4.2229				

Element: Hg Seq. No.: 33 AS Loc.: 29 Date: 12/26/2002
Sample ID: A1899-02D 134mL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.24	0.24	0.0041	0.0288	0.0044	12:41:56	Yes
2	0.24	0.24	0.0041	0.0279	0.0044	12:42:26	Yes
Mean:	0.24	0.24	0.0041				
SD :	0.002	0.002	0.0000				
%RSD:	0.8	0.8	0.8475				

Element: Hg Seq. No.: 34 AS Loc.: 30 Date: 12/26/2002
Sample ID: A1909-01D 130mL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.03	0.03	0.0006	0.0033	0.0009	12:43:15	Yes
2	0.03	0.03	0.0006	0.0038	0.0009	12:43:44	Yes
Mean:	0.03	0.03	0.0006				
SD :	0.000	0.000	0.0000				
%RSD:	0.9	0.9	0.9451				

Element: Hg Seq. No.: 35 AS Loc.: 31 Date: 12/26/2002
Sample ID: A1909-01DDUP 136mL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.03	0.03	0.0006	0.0036	0.0009	12:44:35	Yes
2	0.04	0.04	0.0006	0.0044	0.0009	12:45:05	Yes
Mean:	0.03	0.03	0.0006				

002072

SD :	0.002	0.002	0.0000
%RSD:	6.5	6.5	6.5399

Element: Hg Seq. No.: 36 AS Loc.: 32 Date: 12/26/2002
Sample ID: A1909-01DMS 132mL 96%

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.30	3.30	0.0557	0.2912	0.0560	12:45:58	Yes
2	3.30	3.30	0.0558	0.2910	0.0561	12:46:27	Yes
Mean:	3.30	3.30	0.0558				
SD :	0.004	0.004	0.0001				
%RSD:	0.1	0.1	0.1357				

Element: Hg Seq. No.: 37 AS Loc.: 7 Date: 12/26/2002
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.05	5.05	0.0854	0.4378	0.0857	12:47:20	Yes
2	5.02	5.02	0.0848	0.4377	0.0851	12:47:50	Yes
Mean:	5.04	5.04	0.0851				
SD :	0.024	0.024	0.0004				
%RSD:	0.5	0.5	0.4695				

QC value within specified limits.

Element: Hg Seq. No.: 38 AS Loc.: 1 Date: 12/26/2002
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01	0.01	0.0002	0.0021	0.0005	12:48:42	Yes
2	0.01	0.01	0.0001	0.0022	0.0005	12:49:11	Yes
Mean:	0.01	0.01	0.0002				
SD :	0.001	0.001	0.0000				
%RSD:	12.0	12.0	12.0210				

QC value within specified limits.

Element: Hg Seq. No.: 39 AS Loc.: 33 Date: 12/26/2002
Sample ID: A1909-02D 132mL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.04	0.04	0.0007	0.0052	0.0010	12:50:02	Yes
2	0.04	0.04	0.0007	0.0058	0.0011	12:50:31	Yes
Mean:	0.04	0.04	0.0007				
SD :	0.001	0.001	0.0000				
%RSD:	2.3	2.3	2.3420				

Element: Hg Seq. No.: 40 AS Loc.: 34 Date: 12/26/2002
Sample ID: A1909-03D 140mL

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.04	0.04	0.0006	0.0043	0.0009	12:51:21	Yes
2	0.04	0.04	0.0007	0.0060	0.0010	12:51:50	Yes
Mean:	0.04	0.04	0.0007				
SD :	0.005	0.005	0.0001				
%RSD:	13.3	13.3	13.2669				

Element: Hg Seq. No.: 41 AS Loc.: 35 Date: 12/26/2002

002073

H123118 Perkin-Elmer AAWinLab: 12/31/2002, 10:59:43 AM

A1905: SPLP 1-3
Good for Hg 6, 14, 16, 18, 26
for 123118 15, 22, 25, 28
Obsolete

Element: Hg

Date: 12/31/2002
Technique:FI-MHS
Calibration Type:
Hg, Zero Intercept: Linear
Wavelength: 253.7 nm
Sample Info Name: KAREN.SIF Results Data Set Name: H123101

Element: Hg Seq. No.: 5 AS Loc.: 1 Date: 12/31/2002
Sample ID: S0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0004	0.0011	0.0004	11:00:34	Yes
2			0.0003	0.0006	0.0003	11:01:03	Yes
Mean:			0.0003				
SD :			0.0001				
%RSD:			31.6155				

Auto-zero performed.

Element: Hg Seq. No.: 6 AS Loc.: 2 Date: 12/31/2002
Sample ID: S0.2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0032	0.0170	0.0036	11:01:55	Yes
2			0.0033	0.0174	0.0037	11:02:24	Yes
Mean:			0.0033				
SD :			0.0001				
%RSD:			1.6495				

[Hg] Standard number 1 applied. [0.20]
Correlation Coefficient: 1.00000 Slope: 0.01636

Element: Hg Seq. No.: 7 AS Loc.: 3 Date: 12/31/2002
Sample ID: S1.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0161	0.0850	0.0165	11:03:14	Yes
2			0.0162	0.0847	0.0165	11:03:43	Yes
Mean:			0.0161				
SD :			0.0000				
%RSD:			0.1652				

[Hg] Standard number 2 applied. [1.00]
Correlation Coefficient: 0.99999 Slope: 0.01615

Element: Hg Seq. No.: 8 AS Loc.: 4 Date: 12/31/2002
Sample ID: S2.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0314	0.1637	0.0317	11:04:34	Yes
2			0.0315	0.1637	0.0319	11:05:03	Yes
Mean:			0.0315				
SD :			0.0001				
%RSD:			0.2928				

[Hg] Standard number 3 applied. [2.00]
Correlation Coefficient: 0.99981 Slope: 0.01582

Element: Hg Seq. No.: 9 AS Loc.: 5 Date: 12/31/2002
Sample ID: S5.0

002074

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0791	0.4076	0.0794	11:05:53	Yes
2			0.0789	0.4076	0.0792	11:06:23	Yes
Mean:			0.0790				
SD :			0.0001				
%RSD:			0.1728				

[Hg] Standard number 4 applied. [5.00]
Correlation Coefficient: 0.99998 Slope: 0.01580

Element: Hg Seq. No.: 10 AS Loc.: 6 Date: 12/31/2002
Sample ID: S10.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.1582	0.8214	0.1586	11:07:14	Yes
2			0.1584	0.8216	0.1588	11:07:42	Yes
Mean:			0.1583				
SD :			0.0001				
%RSD:							

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99999 Slope: 0.01583

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
S0	0.0003	--	----	----	----
S0.2	0.0033	0.20	0.21	0.000	1.6
S1.0	0.0161	1.00	1.02	0.000	0.2
S2.0	0.0315	2.00	1.99	0.000	0.3
S5.0	0.0790	5.00	4.99	0.000	0.2
S10.0	0.1583	10.00	10.01	0.000	----

Correlation Coefficient: 0.99999 Slope: 0.01583 ----

002075

Element: Hg Seq. No.: 11 AS Loc.: 7 Date: 12/31/2002
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.99	4.99	0.0789	0.4140	0.0793	11:10:15	Yes
2	5.00	5.00	0.0791	0.4127	0.0795	11:10:44	Yes
Mean:	4.99	4.99	0.0790				
SD :	0.009	0.009	0.0001				
%RSD:	0.2	0.2	0.1829				

QC value within specified limits.

Element: Hg Seq. No.: 12 AS Loc.: 1 Date: 12/31/2002
Sample ID: ICB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02	0.02	0.0003	0.0034	0.0007	11:11:36	Yes
2	0.01	0.01	0.0002	0.0022	0.0006	11:12:05	Yes
Mean:	0.02	0.02	0.0003				
SD :	0.005	0.005	0.0001				
%RSD:	28.4	28.4	28.3795				

QC value within specified limits.

Element: Hg Seq. No.: 13 AS Loc.: 9 Date: 12/31/2002
Sample ID: MB-4952

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.04	0.04	0.0006	0.0048	0.0010	11:12:55	Yes
2	0.05	0.05	0.0007	0.0057	0.0011	11:13:24	Yes
Mean:	0.04	0.04	0.0007				
SD :	0.004	0.004	0.0001				
%RSD:	8.6	8.6	8.5850				

Element: Hg Seq. No.: 14 AS Loc.: 10 Date: 12/31/2002
Sample ID: LCS-4952 92%

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.18	4.18	0.0661	0.3557	0.0665	11:14:14	Yes
2	4.15	4.15	0.0657	0.3542	0.0661	11:14:43	Yes
Mean:	4.17	4.17	0.0659				
SD :	0.018	0.018	0.0003				
%RSD:	0.4	0.4	0.4333				

Element: Hg Seq. No.: 15 AS Loc.: 11 Date: 12/31/2002
Sample ID: MB-4920 (X10) - From Prep

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.07	0.07	0.0011	0.0076	0.0014	11:15:33	Yes
2	0.07	0.07	0.0011	0.0076	0.0014	11:16:04	Yes
Mean:	0.07	0.07	0.0011				
SD :	0.001	0.001	0.0000				
%RSD:	1.3	1.3	1.2725				

Element: Hg Seq. No.: 16 AS Loc.: 12 Date: 12/31/2002
Sample ID: A1905-01D (X10) - From Prep

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.07	0.07	0.0012	0.0077	0.0015	11:16:53	Yes

002076

2	0.07	0.07	0.0011	0.0075	0.0015	11:17:22	Yes
Mean:	0.07	0.07	0.0011				
SD :	0.001	0.001	0.0000				
%RSD:	1.7	1.7	1.6573				

Element: Hg Seq. No.: 17 AS Loc.: 13 Date: 12/31/2002
Sample ID: A1905-02D (X10) From Prep

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.05	0.05	0.0008	0.0061	0.0012	11:18:13	Yes
2	0.05	0.05	0.0008	0.0054	0.0011	11:18:42	Yes
Mean:	0.05	0.05	0.0008				
SD :	0.003	0.003	0.0000				
%RSD:	5.1	5.1	5.1152				

Element: Hg Seq. No.: 18 AS Loc.: 14 Date: 12/31/2002
Sample ID: A1905-03D (X10) From Prep

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.10	0.10	0.0016	0.0100	0.0019	11:19:32	Yes
2	0.10	0.10	0.0015	0.0094	0.0019	11:20:01	Yes
Mean:	0.10	0.10	0.0015				
SD :	0.002	0.002	0.0000				
%RSD:	2.1	2.1	2.0722				

Element: Hg Seq. No.: 19 AS Loc.: 15 Date: 12/31/2002
Sample ID: A1905-10A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.05	0.05	0.0008	0.0059	0.0011	11:20:51	Yes
2	0.05	0.05	0.0008	0.0054	0.0011	11:21:20	Yes
Mean:	0.05	0.05	0.0008				
SD :	0.000	0.000	0.0000				
%RSD:	0.6	0.6	0.5890				

Element: Hg Seq. No.: 20 AS Loc.: 16 Date: 12/31/2002
Sample ID: A1905-14B

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.20	0.20	0.0031	0.0184	0.0034	11:22:10	Yes
2	0.19	0.19	0.0031	0.0182	0.0034	11:22:39	Yes
Mean:	0.19	0.19	0.0031				
SD :	0.001	0.001	0.0000				
%RSD:	0.7	0.7	0.6974				

Element: Hg Seq. No.: 21 AS Loc.: 7 Date: 12/31/2002
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.99	4.99	0.0789	0.4124	0.0792	11:23:29	Yes
2	4.95	4.95	0.0783	0.4113	0.0787	11:23:58	Yes
Mean:	4.97	4.97	0.0786				
SD :	0.026	0.026	0.0004				
%RSD:	0.5	0.5	0.5182				

QC value within specified limits.

002077

Element: Hg Seq. No.: 22 AS Loc.: 1 Date: 12/31/2002
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02	0.02	0.0003	0.0029	0.0006	11:24:50	Yes
2	0.02	0.02	0.0003	0.0028	0.0006	11:25:19	Yes
Mean:	0.02	0.02	0.0003				
SD :	0.000	0.000	0.0000				
%RSD:	1.4	1.4	1.3566				

QC value within specified limits.

Element: Hg Seq. No.: 23 AS Loc.: 17 Date: 12/31/2002
Sample ID: A1905-16B HMc

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.57	0.57	0.0090	0.0540	0.0093	11:26:09	Yes
2	0.57	0.57	0.0090	0.0541	0.0093	11:26:38	Yes
Mean:	0.57	0.57	0.0090				
SD :	0.002	0.002	0.0000				
%RSD:	0.3	0.3	0.3426				

Element: Hg Seq. No.: 24 AS Loc.: 18 Date: 12/31/2002
Sample ID: A1905-16C HMc

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01	0.01	0.0001	0.0027	0.0005	11:27:27	Yes
2	0.01	0.01	0.0002	0.0032	0.0005	11:27:56	Yes
Mean:	0.01	0.01	0.0002				
SD :	0.001	0.001	0.0000				
%RSD:	11.2	11.2	11.1721				

Element: Hg Seq. No.: 25 AS Loc.: 19 Date: 12/31/2002
Sample ID: A1905-18B HMc

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01	0.01	0.0001	0.0026	0.0005	11:28:46	Yes
2	0.01	0.01	0.0001	0.0029	0.0005	11:29:15	Yes
Mean:	0.01	0.01	0.0001				
SD :	0.001	0.001	0.0000				
%RSD:	10.8	10.8	10.7896				

Element: Hg Seq. No.: 26 AS Loc.: 20 Date: 12/31/2002
Sample ID: A1905-18C HMc

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.13	0.13	0.0021	0.0156	0.0025	11:30:05	Yes
2	0.13	0.13	0.0020	0.0144	0.0023	11:30:34	Yes
Mean:	0.13	0.13	0.0021				
SD :	0.005	0.005	0.0001				
%RSD:	3.6	3.6	3.6293				

Element: Hg Seq. No.: 27 AS Loc.: 21 Date: 12/31/2002
Sample ID: A1905-26A HMc

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01	0.01	0.0001	0.0023	0.0005	11:31:24	Yes

002078

2	0.01	0.01	0.0001	0.0022	0.0004	11:31:53	Yes
Mean:	0.01	0.01	0.0001				
SD :	0.001	0.001	0.0000				
%RSD:	20.7	20.7	20.6839				

Element: Hg Seq. No.: 28 AS Loc.: 22 Date: 12/31/2002
Sample ID: A1905-26ADUP HMc

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01	0.01	0.0001	0.0027	0.0005	11:32:43	Yes
2	0.00	0.00	0.0001	0.0019	0.0004	11:33:12	Yes
Mean:	0.01	0.01	0.0001				
SD :	0.003	0.003	0.0000				
%RSD:	53.3	53.3	53.2522				

Element: Hg Seq. No.: 29 AS Loc.: 23 Date: 12/31/2002
Sample ID: A1905-26AMS HMc 97%

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.18	3.18	0.0503	0.2693	0.0507	11:34:02	Yes
2	3.13	3.13	0.0495	0.2698	0.0499	11:34:31	Yes
Mean:	3.16	3.16	0.0499				
SD :	0.035	0.035	0.0005				
%RSD:	1.1	1.1	1.0967				

Element: Hg Seq. No.: 30 AS Loc.: 24 Date: 12/31/2002
Sample ID: MB-4953

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.09	0.09	0.0015	0.0092	0.0018	11:35:21	Yes
2	0.10	0.10	0.0015	0.0096	0.0019	11:35:51	Yes
Mean:	0.10	0.10	0.0015				
SD :	0.001	0.001	0.0000				
%RSD:	0.9	0.9	0.8805				

Element: Hg Seq. No.: 31 AS Loc.: 7 Date: 12/31/2002
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.87	4.87	0.0770	0.4102	0.0774	11:36:42	Yes
2	4.87	4.87	0.0771	0.4113	0.0774	11:37:11	Yes
Mean:	4.87	4.87	0.0770				
SD :	0.001	0.001	0.0000				
%RSD:							

QC value within specified limits.

Element: Hg Seq. No.: 32 AS Loc.: 1 Date: 12/31/2002
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02	0.02	0.0003	0.0037	0.0007	11:38:03	Yes
2	0.01	0.01	0.0002	0.0026	0.0006	11:38:32	Yes
Mean:	0.02	0.02	0.0003				
SD :	0.005	0.005	0.0001				
%RSD:	29.0	29.0	28.9629				

QC value within specified limits.

002079

Element: Hg Seq. No.: 33 AS Loc.: 25 Date: 12/31/2002
Sample ID: LCS-4953 103%

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.70	4.70	0.0743	0.3980	0.0747	11:39:24	Yes
2	4.70	4.70	0.0744	0.3974	0.0747	11:39:53	Yes
Mean:	4.70	4.70	0.0743				
SD :	0.001	0.001	0.0000				
%RSD:							

Element: Hg Seq. No.: 34 AS Loc.: 26 Date: 12/31/2002
Sample ID: A1905-15C 0.41

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.41	0.41	0.0065	0.0364	0.0068	11:40:43	Yes
2	0.41	0.41	0.0064	0.0358	0.0068	11:41:12	Yes
Mean:	0.41	0.41	0.0065				
SD :	0.003	0.003	0.0000				
%RSD:	0.7	0.7	0.6934				

Element: Hg Seq. No.: 35 AS Loc.: 27 Date: 12/31/2002
Sample ID: A1905-22C 0.66

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.29	0.29	0.0046	0.0261	0.0049	11:42:02	Yes
2	0.29	0.29	0.0045	0.0260	0.0049	11:42:31	Yes
Mean:	0.29	0.29	0.0046				
SD :	0.003	0.003	0.0000				
%RSD:	1.0	1.0	0.9997				

Element: Hg Seq. No.: 36 AS Loc.: 28 Date: 12/31/2002
Sample ID: A1905-25C 0.49

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.07	0.07	0.0011	0.0073	0.0014	11:43:22	Yes
2	0.07	0.07	0.0011	0.0077	0.0015	11:43:51	Yes
Mean:	0.07	0.07	0.0011				
SD :	0.000	0.000	0.0000				
%RSD:	0.4	0.4	0.3780				

Element: Hg Seq. No.: 37 AS Loc.: 29 Date: 12/31/2002
Sample ID: A1905-28A 0.63

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.03	0.03	0.0006	0.0049	0.0009	11:44:41	Yes
2	0.03	0.03	0.0005	0.0041	0.0009	11:45:10	Yes
Mean:	0.03	0.03	0.0005				
SD :	0.002	0.002	0.0000				
%RSD:	5.0	5.0	4.9777				

Element: Hg Seq. No.: 38 AS Loc.: 30 Date: 12/31/2002
Sample ID: A1905-28ADUP 0.66

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.05	0.05	0.0007	0.0056	0.0011	11:46:00	Yes

002080

2	0.05	0.05	0.0007	0.0057	0.0011	11:46:29	Yes
Mean:	0.05	0.05	0.0007				
SD :	0.001	0.001	0.0000				
%RSD:	1.4	1.4	1.3740				

Element: Hg Seq. No.: 39 AS Loc.: 31 Date: 12/31/2002
Sample ID: A1905-28AMS

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.51	4.51	0.0714	0.3845	0.0718	11:47:19	Yes
2	4.49	4.49	0.0710	0.3841	0.0714	11:47:48	Yes
Mean:	4.50	4.50	0.0712				
SD :	0.018	0.018	0.0003				
%RSD:	0.4	0.4	0.4095				

Element: Hg Seq. No.: 40 AS Loc.: 32 Date: 12/31/2002
Sample ID: A1905-28ASD

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.04	1.04	0.0165	0.0904	0.0168	11:48:41	Yes
2	1.05	1.05	0.0166	0.0916	0.0169	11:49:10	Yes
Mean:	1.04	1.04	0.0165				
SD :	0.005	0.005	0.0001				
%RSD:	0.5	0.5	0.4873				

Element: Hg Seq. No.: 41 AS Loc.: 7 Date: 12/31/2002
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.80	4.80	0.0760	0.4105	0.0764	11:50:03	Yes
2	4.77	4.77	0.0754	0.4086	0.0758	11:50:32	Yes
Mean:	4.79	4.79	0.0757				
SD :	0.026	0.026	0.0004				
%RSD:	0.6	0.6	0.5505				

QC value within specified limits.

Element: Hg Seq. No.: 42 AS Loc.: 1 Date: 12/31/2002
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02	0.02	0.0003	0.0032	0.0006	11:51:24	Yes
2	0.02	0.02	0.0002	0.0029	0.0006	11:51:53	Yes
Mean:	0.02	0.02	0.0003				
SD :	0.001	0.001	0.0000				
%RSD:	4.7	4.7	4.7204				

QC value within specified limits.

Element: Hg Seq. No.: 43 AS Loc.: 33 Date: 12/31/2002
Sample ID: A1905-28APDS 107%

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.60	1.60	0.0254	0.1385	0.0257	11:52:43	Yes
2	1.61	1.61	0.0255	0.1392	0.0259	11:53:13	Yes
Mean:	1.61	1.61	0.0254				
SD :	0.007	0.007	0.0001				
%RSD:	0.4	0.4	0.4219				

002081

Perkin-Elmer AAWinLab: 12/31/2002, 11:53:13 AM

Element: Hg   Seq. No.: 44   AS Loc.: 34   Date: 12/31/2002
Sample ID:

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.09	0.09	0.0013	0.0058	0.0017	11:54:03	Yes
2	-0.02	-0.02	-0.0003	-0.0005	0.0000	11:54:32	Yes
Mean:	0.03	0.03	0.0005				
SD :	0.075	0.075	0.0012				
%RSD:	235.3	235.3	235.2900				

Element: Hg   Seq. No.: 45   AS Loc.: 35   Date: 12/31/2002
Sample ID:

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0003	-0.0002	0.0001	11:55:22	Yes
2	-0.02	-0.02	-0.0003	-0.0007	0.0000	11:55:51	Yes
Mean:	-0.02	-0.02	-0.0003				
SD :	0.003	0.003	0.0000				
%RSD:	15.8	15.8	15.7720				

Element: Hg   Seq. No.: 46   AS Loc.: 36   Date: 12/31/2002
Sample ID:

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0003	-0.0008	0.0000	11:56:41	Yes

12/31/02

Element: Hg   Seq. No.: 47   AS Loc.: 7   Date: 12/31/2002
Sample ID: ~~ICV~~ CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.85	4.85	0.0767	0.4119	0.0771	11:58:25	Yes
2	4.81	4.81	0.0761	0.4078	0.0764	11:58:54	Yes
Mean:	4.83	4.83	0.0764				
SD :	0.030	0.030	0.0005				
%RSD:	0.6	0.6	0.6318				

QC value within specified limits.

12/31/02

Element: Hg   Seq. No.: 48   AS Loc.: 1   Date: 12/31/2002
Sample ID: ~~ICB~~ CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.03	0.03	0.0004	0.0031	0.0008	11:59:46	Yes
2	0.03	0.03	0.0005	0.0040	0.0008	12:00:15	Yes
Mean:	0.03	0.03	0.0005				
SD :	0.003	0.003	0.0000				
%RSD:	9.2	9.2	9.2463				

Element: Hg   Seq. No.: 49   AS Loc.: 7   Date: 12/31/2002
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.24	0.24	0.0038	0.0221	0.0041	12:02:57	Yes
2	0.23	0.23	0.0036	0.0204	0.0040	12:03:26	Yes
Mean:	0.23	0.23	0.0037				
SD :	0.006	0.006	0.0001				

12/31/02

002082

Prep Logbooks
- ✓ ICP
- ✓ Mercury
- □ Cyanide
- ✓ Percent Solids

002083

MITKEM CORPORATION: Aqueous Metals Preparation Logbook

A1905

Date	Sample ID	Client ID	Sample Vol (ml)	pH	Sample Color Before	Clarity Before	Conc. HNO_3 (ml)	Conc. HCl (ml)	1:1 HCl (ml)	Sample Color After	Sample Clarity After	Final Volume (ml)	Comments	Analys
12/24/02	4917 1224 PBW	—	50	—	—	—	1.0	2.5	—	—	—	50		BH
	1224 LCSW		50	—										
	MB-4888		5	<2										
	A1896-02A		5	<2										
	A1898-01A		5	<2										
	A1898-02A		5	<2										
	A1898-03A		5	<2										
	A1898-04A		5	<2										
	A1899-01E		50	<2										
	A1899-02E			<2										
	A1903-01A			<2										
	-01A Dup			<2										
	-01A MS			<2										
	-02A			<2										
	03A			<2										
	-04A			<2										
12/24/02	A1903-05A	—	50	<2	—	—	1.0	2.5	—	—	—	50		BH

HCl Lot# 4102080
HNO3 Lot# 1102060

Method: 3005A

Digestion Temp: 95 0C

LCSS/Spike ID: I021018E 450ul, I0202223B 45ul, I0202222C 45ul

SOP#: I03

Logbook ID 100.0125-2/02 LCS I02111801 450ul

Reviewed By:

Logbook page 000070

002084

MITKEM CORPORATION: Aqueous Metals Preparation Logbook

Date	Sample ID	Client ID	Sample Vol (ml)	pH	Sample Color Before	Clarity Before	Conc. HNO_3 (ml)	Conc. HCl (ml)	1:1 HCl (ml)	Sample Color After	Sample Clarity After	Final Volume (ml)	Comments	Analys
12/24/02	A1903-06A	—	50	<2	—	—	1.0	2.5	—	—	—	50		BH
	A1905-07A			<2										
	A1905-08A			<2										
	A1905-10A			<2										
	A1909-01D			<2										
	01D Dup			<2										
	01D MS			<2										
	02D			<2										
	03D			<2										
12/24/02	A1909 04D	—	50	<2	—	—	1.0	2.5	—	—	—	50		BH

BH 12/24/02

HCl Lot# 4102080
HNO3 Lot# 1102060

Method: 3005A

Digestion Temp: 95 0C

LCSS/Spike ID: I021018E 450ul, I0202223B 45ul, I0202222C 45ul

SOP#: I03

Logbook ID 100.0125-2/02 LCS - I02111801 450ul

Reviewed By:

Logbook page 000071

002085

1905

MITKEM CORPORATION: Soil/Solid Metals Prep Logbook

Date	Sample ID		Client ID	Sample Wt. (g)	Sample Color Before	Texture	1:1 HNO_3 ml	Conc. HNO_3 ml	Conc. HCl ml	30% H_2O_2 ml	Sample Color After	Sample Clarity After	Final Volume ml	Comments	Analyst
12/30/02	1230 PBS		MS-4554	/	/	/	5	2.5	5	5	/	/	50		JPC
	1230 LCSS		LCS-4554	0.50											
	A1905-	15C		1.02											
		22C		1.00											
		25C		1.05											
		28A		1.03											
		28A	Dup	1.08											
12/30/02	A1905-	28A	MS	1.08	/	/	5	2.5	5	5	/	/	50		JPC

JPC 12/30/02

HCl Lot# 4102080
HNO3 Lot# 1102060
H2O2 Lot# 011435

Method: 3050B
SOP#: 304

Digestion Temp: 95 oC
IO21018C 45ul
IO20222B 45ul
IO20222C 45ul

2088

Logbook ID 100.0124-3/02

Reviewed By: ______

Logbook page: 0024

A1905

MITKEM CORPORATION: Soil/Solid Metals Prep Logbook

Date	Sample ID	Client ID	Sample Wt. (g)	Sample Color Before	Texture	1:1 HNO_3 ml	Conc. HNO_3 ml	Conc. HCl ml	30% H_2O_2 ml	Sample Color After	Sample Clarity After	Final Volume ml	Comments	Analyst
12/24/02	4916 1224 PBS	—	—	—	—	5	2.5	5	5	—	—	50		BN
	4916 1224 LCSS		1.00											
	A1906-01A		1.10											
	A1906-01ADUP		1.10											
	A1906-01AMS		1.10											
	A1906-02A		1.14											
	A1905-01D		1.04											
	A1905-02D		1.05											
	A1905-03D		1.03											BN
12/24/02	A1905-06C	—	1.08	—	—	5	2.5	5	5	—	—	50		

BN 12/24/02

HCl Lot# 4102080
HNO3 Lot# 1102060
H2O2 Lot# 011435

Method: 3050B
SOP#: 304

Digestion Temp: 95 oC
ID21018E 45ul
ID20222B 45ul
ID20222C 45ul

002086

Logbook ID 100.0124-3/02

Logbook page: 0021

MITKEM CORPORATION: Mercury Digestion Logbook

Date	Bottle No.	Sample ID		Client ID	Sample Vol (ml) Wt (g)	Conc. H_2SO_4 (ml)	Conc. HNO_3 (ml)	5% $KMnO_4$ (ml)	5% K_2SO_4 (ml)	Aqua-regia (ml)	Final Volume (ml)	Comments	Analyst
12/30/02	Dup	S0			100	5	2.5	15	8	/	100		JPC
	45	S0.2ug/l			0.04/100							II02308	
	13L	S1.0			0.2/100								
	35	S2.0			0.4/100								
	21F	S5.0			1.0/100								
	7D	S10.0			2.0/100								
	3	ICV			1.0/100							IIO21018	
	11	1230 PBW		PB-4552	100								
	2L	1230 LCSW		LCS-4552	1.0/100								
	16F	MS-4520 MS1226-01		SRP	10								
	15Z	A1905-	01D										
	5Q	A1905-	02D										
	14	A1905-	03D	SRP	10						100		
	76	A1905-	10A		100						145	NOT IN BATCH	
	32	A1905-	14B		100						141		
12/30/02	135	A1905-	16B		100	5	2.5	15	8	/	141		JPC

Temp: 95 °C

Waters
In: 9:30
Out: 14:30
Matrix: Aqueous

Solids
In: ______ Out: ______
In: ______ Out: ______
Matrix: Soil/Solid

LCSS IIO21211C 1.0ml
Spike IIO21211 1.0ml
SOP# 312

H_2SO_4 Lot # 1102030
HNO_3 Lot # 1102060
HCl Lot # 4102080
KMnO4 Lot # 0704X1
K2S2O8 Lot# 0415X4
Method # 7470A

002089

Logbook ID: 100.0128-4/02

Reviewed by:

Logbook Page 0081

1905

MITKEM CORPORATION: Aqueous Metals Preparation Logbook

Date	Sample ID		Client ID	Sample Vol (ml)	pH	Sample Color Before	Clarity Before	Conc. HNO_3 (ml)	Conc. HCl (ml)	1:1 HCl (ml)	Sample Color After	Sample Clarity After	Final Volume (ml)	Comments	Analys
12/30/02	1230 PBW		PB-4555	50	/	/	/	1.0	2.5	/	/	/	50		JPC
	1230 LCSW		LCS-4555		/										
	MS-4520 MS1226-01		SRP		<2										
	A1905- SPLP w/ nitrate	01D													
	A1905 SPLP w/ nitrate	02D													
	A1905 SPLP w/ nitrate	03D	SRP											NOT IN BATCH	
	A1905-	10A													
		14B													
		16B													
		16C													
		18B													
		18C													
	A1905	26A													
	A1912-	01D													
		02D													
		02D	Dup												JPC
12/30/02	A1912-	02D	MS	50	<2	/	/	1.0	2.5	/	/	/	50		

HCl Lot# 4102080
HNO3 Lot# 1102060

LCSS/Spike ID: IO20221B 45ul
IO20222C 45ul
IO21018E 45ul

Method: 200.7/6010
SOP#: 302

Digestion Temp: 95 0C

2087

Logbook ID 100.0125-2/02

Reviewed By: ______

Logbook page 000072

MITKEM CORPORATION: Mercury Digestion Logbook

A1905

Date	Bottle No.	Sample ID	Client ID	Sample Vol (ml)/ Wt (g)	Reagents Added: Conc. H_2SO_4 (ml)	Conc. HNO_3 (ml)	5% $KMnO_4$ (ml)	5% K_2SO_4 (ml)	Aqua-regia (ml)	Final Volume (ml)	Comments	Analyst
12/24/02	96	50.0	—	100	—	—	15	—	5	100	II021211A	BH
↓	15x	50.2MW		0.04/100	↓	↓	↓	↓	↓	↓	↕	↓
	14	51.0		0.2/100								
	11	52.0		0.4/100								
	36TN	55.0		1.0/100								
	32	5100		2.0/100							II021211A	
	24	ICV		1.0/100							II021211B	
	17L	4914 1224 PBS		1.00								
	5R	1224 LCSS		1.0/100								
	28TN	A1896-62A		0.66								
	17WP	A1901-07A		0.71								
	3F	-01A DUP		0.71								
	9BW	-01A MS		0.71								
	13J	-03A		0.75								
↓	21F	↓ -03A	↓	0.60	↓	↓	↓	↓	↓	↓		
12/24/02	4XY	A1901 -04A	—	0.73	—	—	15	—	5	100		

Temp: 95 °C

Waters In: ___ Out: N/A Matrix: Aqueous

Solls In: 11:30 Out: 11:23 In: 11:45 Out: 12:15 Matrix: Soil/Solid

LCSS II021211C Spike ___ SOP# I12

H_2SO_4 Lot # 3102030 HNO_3 Lot # 1102060 HCl Lot # 4102080 KMnO4 Lot # 020863 K2S2O8 Lot# 005564 Method # 7471A

Logbook ID: 100.0128-4/02 Reviewed by: Logbook Page 0075

26U200

MITKEM CORPORATION: Mercury Digestion Logbook

Date	Bottle No.	Sample ID	Client ID	Sample Vol (ml)/ Wt (g)	Reagents Added: Conc. H_2SO_4 (ml)	Conc. HNO_3 (ml)	5% $KMnO_4$ (ml)	5% K_2SO_4 (ml)	Aqua-regia (ml)	Final Volume (ml)	Comments	Analyst
12/24/02	14	A905-	14C	1.00	5	2.5	15	8	/	142		JPC
↓	17E	↓	18	↓	↓	↓	↓	↓	↓	140		↓
	19KP		19C							140		
	17L	A905-	20A							144		
	9BW	A905	20A DUP							144		↓
12/24/02	3B	A905	20A MS	1.00	5	2.5	15	8	/	140		JPC

Temp: 97 °C

Waters In: ___ Out: N/A Matrix: Aqueous

Solls In: ___ Out: ___ In: ___ Out: ___ Matrix: Soil/Solid

LCSS II021211C Spike II021211C SOP# I12

H_2SO_4 Lot # ___ HNO_3 Lot # ___ HCl Lot # ___ KMnO4 Lot # ___ K2S2O8 Lot# ___ Method # 7471A

Logbook ID: 100.0128-4/02 Reviewed by: Logbook Page 0082

26U200

MITKEM CORPORATION: Mercury Digestion Logbook

Date	Bottle No.	Sample ID	Client ID	Sample Vol (ml)/ Wt (g)	Reagents Added: Conc. H_2SO_4 (ml)	Conc. HNO_3 (ml)	5% $KMnO_4$ (ml)	5% K_2SO_4 (ml)	Aqua-regia (ml)	Final Volume (ml)	Comments	Analyst
12/24/02	3	A1905-01D	—	0.67	—	—	15	—	5	100		BH
↓	16F	↓ -02D		0.71	↓	↓	↓	↓	↓	↓		↓
↓	14K	↓ -03D		0.65	↓	↓	↓	↓	↓	↓		↓
12/24/02	12B	A1905-06C	—	0.69	—	—	15	—	5	100		BH

BH 12/24/02

Temp: 95 °C

Waters In: ___ Out: N/A Matrix: Aqueous

Solls In: 11:30 Out: 11:23 In: 11:45 Out: 12:15 Matrix: Soil/Solid

LCSS II021211C Spike ___ SOP# I12

H_2SO_4 Lot # ___ HNO_3 Lot # ___ HCl Lot # ___ KMnO4 Lot # ___ K2S2O8 Lot# ___ Method # 7471A

Soil PB 75

Logbook ID: 100.0128-4/02 Reviewed by: Logbook Page 0076

26U200

MITKEM CORPORATION: Mercury Digestion Logbook

Date	Bottle No.	Sample ID	Client ID	Sample Vol (ml)/ Wt (g)	Reagents Added: Conc. H_2SO_4 (ml)	Conc. HNO_3 (ml)	5% $KMnO_4$ (ml)	5% K_2SO_4 (ml)	Aqua-regia (ml)	Final Volume (ml)	Comments	Analyst
12/24/02	3BTN	1230 PBS	MS-4953	/	/	/	15	/	5	100		JPC
↓	52L	1230 LCSS	LCS-4950	0.60	↓	↓	↓	↓	↓	↓		↓
	4J	A1905-	15C	0.71							NOT IN BOTH	
	15H	↓	22	0.66							NOT IN BOTH	
	28TN		25	0.69								
	15J		26A	0.63								
↓	14	↓	26A DUP	0.66	↓	↓	↓	↓	↓	↓		↓
12/24/02	9L	AFOS-	26A MS	0.68	/	/	15	/	5	100		JPC

Temp: 97 °C

Waters In: ___ Out: ___ Matrix: Aqueous

Solls In: 9:50 Out: 8:57 In: 9:05 Out: 9:35 Matrix: Soil/Solid

LCSS I2021211C 1464 Spike I2021211C 1464 SOP# I12

H_2SO_4 Lot # ___ HNO_3 Lot # ___ HCl Lot # ___ KMnO4 Lot # ___ K2S2O8 Lot# ___ Method # 7471A

Logbook ID: 100.0128-4/02 Reviewed by: Logbook Page 0083

26U200

MITKEM CORPORATION: Mercury Digestion Logbook

Logbook Page 0077

002094

Percent Moisture and Percent Solids Report

Mitkem Sample ID	Client Sample ID	Analyzed	Percent Moisture	Percent Solids	Validated
A1905-04A	AOC3SSTB4902	12/31/2002	9	91	Yes
A1905-05A	AOC3SSTB5312	12/31/2002	7	93	Yes
A1905-06A	AOC3SSTB5402	12/31/2002	9	91	Yes
A1905-11A	AOC3SSD5A45	12/31/2002	9	91	Yes
A1905-12A	AOC3SSD5B45	12/31/2002	10	90	Yes
A1905-13A	AOC3SSTB4945	12/31/2002	11	89	Yes
A1905-15A	AOC5SSTB6267	12/31/2002	43	57	Yes
A1905-17A	AOC7SSTB6578	12/31/2002	43	57	Yes
A1905-19A	AOC5ASSTB6956	12/31/2002	11	89	Yes
A1905-20A	AOC5ASSD7A56	12/31/2002	8	92	Yes
A1905-21A	AOC5ASSD7B56	12/31/2002	8	92	Yes
A1905-22A	AOC6SSTB7167	12/31/2002	37	63	Yes
A1905-23A	AOC5ASSTB7002	12/31/2002	7	93	Yes
A1905-24A	AOC5ASSTB6978	12/31/2002	49	51	Yes
A1905-25A	AOC5ASSTB68015	12/31/2002	7	93	Yes
A1905-27A	AOC2TB5512	12/31/2002	8	92	Yes
A1905-28A	AOC2TB24	12/31/2002	9	91	Yes
A1905-29A	AOC2TB5802	12/31/2002	5	95	Yes
A1905-30A	AOC2TB57675	12/31/2002	11	89	Yes

C02095

MITKEM CORPORATION

* Wet Chemistry *

002096

Mitkem Corporation Date: 30-Jun-03

CLIENT: HRP Associates
Project: Former Howe Furniture Facility HOW-00
Client Sample ID: AOC5WTB62W
Collection Date: 12/19/02 10:00
Lab ID: A1905-16

Analyses	Result	Qual	RL	Units	DF	Date Analyzed
CONDUCTANCE		COND_W				
Specific Conductance	4000		10	µmhos/cm	1	12/30/02 0:00
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	800		100	mg/L	20	12/30/02 11:00
PH VALUE		SM4500_H+				
pH	6.7		1.0	pH Units	1	12/20/02 11:45

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

C02097

CLIENT: HRP Associates
Work Order: A1905
Project: Former Howe Furniture Facility HOW-0016.R

ANALYTICAL QC SUMMARY REPORT

TestCode: SM4500_CL_W

Sample ID	MB-4962	SampType	MBLK	TestCode	SM4500_CL_W			Prep Date	12/30/02		Run ID	MANUAL_021230C	
Client ID	MB-4962	Batch ID	4962	Units	mg/L			Analysis Date	12/30/02		SeqNo	52908	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Chloride	ND	5.0											

Sample ID	LCS-4962	SampType	LCS	TestCode	SM4500_CL_W			Prep Date	12/30/02		Run ID	MANUAL_021230C	
Client ID	LCS-4962	Batch ID	4962	Units	mg/L			Analysis Date	12/30/02		SeqNo	52909	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Chloride	66	10	58.5	0	113	80	120	0	0				

Sample ID	A1905-18FMS	SampType	MS	TestCode	SM4500_CL_W			Prep Date	12/30/02		Run ID	MANUAL_021230C	
Client ID	AOC7WTB65GW	Batch ID	4962	Units	mg/L			Analysis Date	12/30/02		SeqNo	52913	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Chloride	1160	100	500	730	86	75	125	0	0				

Sample ID	A1905-18FDUP	SampType	DUP	TestCode	SM4500_CL_W			Prep Date	12/30/02		Run ID	MANUAL_021230C	
Client ID	AOC7WTB65GW	Batch ID	4962	Units	mg/L			Analysis Date	12/30/02		SeqNo	52912	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Chloride	700	100	0	0	0	0	0	730	4.20	20			

002100

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

Mitkem Corporation

Date: *30-Jan-03*

CLIENT: HRP Associates
Client Sample ID: AOC7WTB65GW
Lab ID: A1905-18

Project: Former Howe Furniture Facility HOW-00
Collection Date: 12/19/02 11:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed
CONDUCTANCE		COND_W				
Specific Conductance	4000		10	µmhos/cm	1	12/30/02 0:55
CHLORIDE BY ARGENTOMETRIC METHOD		SM4500_CL_W				
Chloride	730		100	mg/L	20	12/30/02 11:00
PH VALUE		SM4500_H+				
pH	6.5		1.0	pH Units	1	12/26/02 11:45

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; B - Analyte detected in the associated Method Blank; DF - Dilution Factor; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; E - Value above quantitation range; RL - Reporting Limit

002098

CLIENT: HRP Associates
Work Order: A1905
Project: Former Howe Furniture Facility HOW-0016.R

ANALYTICAL QC SUMMARY REPORT

TestCode: SM4500_H+

Sample ID	A1905-18FDUP	SampType	DUP	TestCode	SM4500_H+			Prep Date	12/26/02		Run ID	PH METER_021226A	
Client ID	AOC5WTB62W	Batch ID	R1603	Units	pH Units			Analysis Date	12/26/02		SeqNo	54090	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
pH	6.69	1.0	0	0	0	0	0	6.69	0	20			

002101

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

Mitkem Corporation

Date: *30-Jan-03*

CLIENT: HRP Associates
Work Order: A1905
Project: Former Howe Furniture Facility HOW-0016.R

ANALYTICAL QC SUMMARY REPORT

TestCode: COND_W

Sample ID	MBLK	SampType	MBLK	TestCode	COND_W			Prep Date	12/30/02		Run ID	MANUAL_021230B	
Client ID	MBLK	Batch ID	R1579	Units	µmhos/cm			Analysis Date	12/30/02		SeqNo	52904	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Specific Conductance	ND	10											

Sample ID	LCS	SampType	LCS	TestCode	COND_W			Prep Date	12/30/02		Run ID	MANUAL_021230B	
Client ID	LCS	Batch ID	R1579	Units	µmhos/cm			Analysis Date	12/30/02		SeqNo	52905	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Specific Conductance	106.1	10	100.6	0	105	80	120	0	0				

002099

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

MITKEM CORPORATION
Miscellaneous Analysis

A1905 Temp compensated M.

Date	Sample ID	Analysis	Result and Comments	Initials
12/30/02	12/26/02 Impolitis S1409.0	Cond	21° 1407.54 umhos = 1002	BN
	1230 PBLW		22° 2.65 umhos = ND	
	1230 QC 1006 umhos		22° 106.08 umhos = 1052	
	A1905-16F		18° 4040.17 umhos	RPD: 0%
	A1905-16F DUP		18° 4040.17 umhos	
	A1905-18F		18° 4040.17 umhos	
12/30/02	12/26/02 Impolitis S1409.0	Cond	22° 1379.02 umhos 98%	BN
12/30/02	MDL #1	Cond	21° 15.70 umhos	BH
	MDL 2		22° 12.20 umhos	
	MDL 3		22° 11.67 umhos	
	MDL 4		22° 14.32 umhos	
	MDL 5		22° 11.67 umhos	
	MDL 6		22° 11.67 umhos	BH
12/30/02	MDL 7	Cond	22° 11.67 umhos	BH

* MDL @ 10 umhos w/ Impolitis 700C

QAT00223
Log ID: 8IO-15

Reviewed by: _____

Page: 002102

MITKEM CORPORATION
Titration Analysis Logbook

Analysis: Cl⁻ A1905

Date	Sample ID	Sample volume (ml)	TITRANT: AgNO3 Molarity: 0.014	Vol. Titrant Blank	Vol. Titrant Sample	Vol. Diff. Sample-Blank(ml)	Dilution factor	Result	%Recovery	Analyst
12/24/02	50.0	100		0.4	0.4	0.0	1	0		BH
	505.0	0.2/100		0.4	5.8	5.4	1	27.0	108%	
	Impolitis 505 tt check	1.8/100		0.4	2.3	1.9	1	0.0148	105%	
	1230 PBLW	100		0.4	0.4	0.0	1	ND		
	Impolitis 700C 1230 QC	50/100			7.0	6.6	3	66.0	132%	
	A1905-16F	20/100					5	0	0%	
	A1905-16F	5/100			8.4	8.0	20	800		
	A1905-18F	20/100					5	0	0%	
	A1905-18F	5/100			7.7	7.3	20	730	RPD: 4.2%	
	18F DUP	5/100			7.4	7.0	20	700		
	18F MS	5/100			12.0	11.6	20	1160	86%	
	505.0	0.2/100			5.8	5.4	1	27.0	108%	
	MDL 1	20/100			2.1	1.7	1	8.5		
	MDL 2	20/100			1.7	1.3	1	6.5		
	MDL 3				2.0	1.6	1	8.0		
	MDL 4				2.1	1.7	1	8.5		
	MDL 5				1.9	1.5	1	7.5		
	MDL 6				1.8	1.4	1	7.0		BH
12/30/02	MDL 7	100/100	0.014	0.4	1.7	1.3	1	6.5		BH

* MDL @ 4 mL w/ MACH 12 A9374
* Dilute for color
* HACH A9874
#spk @ 25 mL w/ 20 mL A9874 w/ HACH A9874

Logbook ID 100.0157-1102

Logbook page 00000

Reviewed by _____

002103

MITKEM CORPORATION
pH Determination Logbook

A1905

Date	Sample ID	Client ID	pH	Comments	Analyst
12/23/02	pH 7.0		7.04		BN
	A1876-10A		7.83		
	A1876-09A		7.03		BH
12/23/02	pH 7.0		7.03		
12/24/02	pH 4.0		4.01		
	10.0		9.97		
	7.0		6.98		
	A1907-01B		9.46	@ 800	
	-01BD		9.51		
12/24/02	pH 7.0		7.01		BH
12/26/02	pH 4.0		4.00	after calibration	
	10.0		10.00		
	7.0		7.00		
	A1905-16F		6.69	RPD: 0% analyzed @ 11:45	
	A1905-16F DUP		6.69		
	A1905-18F		6.48		
12/26/02	pH 7.0		7.05		BN

QAT00135
Log ID: 9IO-17

Reviewed By: _____

Page: 0004

002104

MITKEM CORPORATION

Analysis Report: Fluoride

Client: HRP Associates
Matrix: Aqueous

Analysis Method: EPA 340.1
Units in: mg/L
Analysis Date: 1/2/03

Lab ID	Client ID	Result
A1905-16F	AOC5WTB62W	0.92
A1905-18F	AOC7WTB65GW	1.3

Reporting Limit: 0.06

Page 1 of 1

Subcontracted-RIAL
A1905
002105

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Mitkem Corporation
Date Received: 12/26/02
Work Order # 0212-17141

Approved by: R.I. Analytical

Sample #: 001
SAMPLE DESCRIPTION: A1905-16F GRAB 12/19/02 @1000

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
FLUORIDE	0.92	0.06	mg/l	EPA 340.1	1/02/03 9:45	NMK

Sample #: 002
SAMPLE DESCRIPTION: A1905-18F GRAB 12/19/02 @1120

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
FLUORIDE	1.3	0.06	mg/l	EPA 340.1	1/02/03 9:45	NMK

R. I. Analytical
41 Illinois Ave.
Warwick, RI 02888
Tele: 401-737-8500

Page 1
Date 1/2/03
Analyst NMK
Curve Date 1/25/02
Time

Std. Lot 1.0 mg/l A113C5
Lot 1.0 Exp Date 12/25/02
Std. Lot 0.5 mg/l A112C
Lot 0.5 Exp Date 11/8/02
Std. Lot 10.0 mg/l A9017
Lot 10.0 Exp Date 3/11/03

Fluoride (Method 340.1)

Sample ID	Initial Vol (ML)	Final Vol (ML)	Aliquot Colored (ML)	ABS @570 nm 1" Cell	FL401 Conc. from Curve Results	QC
Batch Blank			25	1.313	-0.06	
LCS 1.0 mg/l			25	1.003	1.01	101%
17141-1	300	300	25	1.032	0.915	
17141-2	300	300	12.5	1.096	(0.699) 1.34	
17082-1	150	300	25	1.050	(0.754) 1.21	
17234-8	WELL		25	0.995	1.04	
17234-9	WELL		25	0.947	1.20	$\bar{X}$=1.21
17234-10	WELL		25	1.018	0.962	
17234-5D	WELL		25	0.942	1.22	%RPD=1.6%
17141-1S	300	300	25	0.934	1.24	91%
CCV 0.8 mg/l			25	1.065	0.803	100%
Secondary Source 0.5 mg/l			25	1.161	0.480	96%

Calculation: Conc(MG/L) = Conc (from Curve) x Fin Vol (ML) x 25 / Initial Vol (ML) x Aliquot colored

Comments:
CCV 0.8 = 2.0 * 10.0 / 25 = 0.8mg/l Spk = 1.0 * 10.0 / 25 = 0.40 mg/l
LCS 1.0 = 25 * 1.0 / 25 = 1.0 mg/l *Indep. Check Std = 25*0.5 / 25 = 0.5 mg/l

FI 1/2/03

Well = Drinking Water, Undistilled Sample

Mitkem Corporation
175 Metro Center Blvd.
Warwick, RI 02886-1755
(401) 732-3400

Subcontractor:
RI Analytical Laboratory
41 Illinois Ave
Warwick, RI 02886
(401) 737-8500

A1905

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

24-Dec-02

Sample ID	Matrix	Collection Date	Requested Tests: FLUORIDE
A1905-16F	Water	12/19/02 10:00:00 AM	1
A1905-18F	Water	12/19/02 11:20:00 AM	1

1) FLUORIDE or equivalent method for the analysis of FLUORIDE

Comments: Please analyze these samples as quickly as possible. After analysis, the samples do not need to be returned and can be disposed per your standard laboratory practices. Please include all raw data.

Relinquished by: Date/Time 12/26/02 1:30
Received by: Date/Time 12/26/02 1:30
Relinquished by: Date/Time
Received by: Date/Time

R.I. Analytical
Specialists in Environmental Services

CERTIFICATE OF ANALYSIS

Mitkem Corporation
Attn: Data Reporting
175 Metro Center Blvd.
Warwick, RI 02886-1755

Date Received: 12/26/02
Date Reported: 1/03/03
P.O. #:
Work Order #: 0212-17141

DESCRIPTION: PROJECT# A1905 TWO AQUEOUS SAMPLES

Subject sample(s) has/have been analyzed by our laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies. The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844, NY-11726

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:

Paul Perrotti
Data Reporting Manager

enc: Chain of Custody

41 Illinois Avenue, Warwick, RI 02888
Tel: (401) 737-8500 Fax: (401) 738-1970
131 Coolidge Street, Bldg 2, Hudson, MA 01749
Tel: (978) 568-0041 Fax: (978) 568-0078

Last Page of Data Report

ANALYTICAL REPORT

JOB NUMBER: 202825

Prepared For:

MITKEM
175 Metro Center Boulevard
Warwick, RI 02886-1755

Project: TOC - LLOYD KAHN

Attention: Paul Senecal

Date: 01/08/2003

Johanna Dubauskas
Signature

1.9.03
Date

Name: Johanna L. Dubauskas

Title: Project Manager

E-Mail: jdubauskas@stl-inc.com

STL Connecticut
128 Long Hill Cross Road
Shelton, CT 06484

This Report Contains (18) Pages

STL

STL Report : 202825
MITKEM – TOC LLOYD KAHN

Case Narrative

Sample Receipt – All samples were received in good condition and at the proper temperature.

Classical Chemistry - Listed below are the wet chemistry analyte methods and references for the samples analyzed in this SDG. Samples prepared following Lloyd Kahn, Determination of Total Carbon in Sediment, July 27, 1988. Due to the length of time between sampling in the field and receipt in the lab, all samples were analyzed out of hold for TOC. No analytical problems were encountered.

Analyte	Method	Reference
TOCD	9060	1

References:

1. Test Methods for the Evaluation of Solid Wastes, SW846, 3rd ed., 1986.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative.

I certify that this data package is in compliance with the terms and conditions of this contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Cheryl A. Cascella for
Jeffrey C. Curran
Laboratory Manager

Jan 8, 2003
Date

SAMPLE INFORMATION
Date: 01/08/2003

Job Number..: 202825
Customer....: MITKEM
Attn.....: Paul Senecal

Project Number.....: 10000004
Customer Project ID.....: TOC - LLOYD KAHN
Project Description....: TOC - Lloyd Kahn

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
202825-1	A1905-06D	Soil	12/16/2002	15:05	12/27/2002	09:20
202825-2	A1905-15C	Soil	12/18/2002	09:50	12/27/2002	09:20
202825-3	A1905-21A	Soil	12/19/2002	13:07	12/27/2002	09:20
202825-4	A1905-25C	Soil	12/19/2002	12:20	12/27/2002	09:20
202825-5	A1905-28A	Soil	12/18/2002	11:25	12/27/2002	09:20

LABORATORY TEST RESULTS

Job Number: 202825 — Date:01/08/2003

CUSTOMER: MITKEM — PROJECT: TOC + LLOYD KAHN — ATTN: Paul Senecal

Customer Sample ID: A1905-21A
Date Sampled.....: 12/19/2002
Time Sampled.....: 13:07
Sample Matrix.....: Soil

Laboratory Sample ID: 202825-3
Date Received.....: 12/27/2002
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
ASTM D-2216												
	% Solids, Solid	92.3			0.10	0.10	1	%	13261		01/02/03 0000	nev
	% Moisture, Solid	7.7			0.10	0.10	1	%	13261		01/02/03 0000	nev
Lloyd Kahn	Total Organic Carbon (Soils)											
	TOC Average Duplicates, Solid*	572			49.6	108	1	mg/Kg	13432		01/06/03 1050	lam

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 202825 — Date:01/08/2003

CUSTOMER: MITKEM — PROJECT: TOC - LLOYD KAHN — ATTN: Paul Senecal

Customer Sample ID: A1905-06D
Date Sampled.....: 12/16/2002
Time Sampled.....: 15:05
Sample Matrix.....: Soil

Laboratory Sample ID: 202825-1
Date Received.....: 12/27/2002
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
ASTM D-2216												
	% Solids, Solid	91.6			0.10	0.10	1	%	13261		01/02/03 0000	nev
	% Moisture, Solid	8.4			0.10	0.10	1	%	13261		01/02/03 0000	nev
Lloyd Kahn	Total Organic Carbon (Soils)											
	TOC Average Duplicates, Solid*	2210			50.0	109	1	mg/Kg	13432		01/06/03 0940	lam

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 202825 — Date:01/08/2003

CUSTOMER: MITKEM — PROJECT: TOC - LLOYD KAHN — ATTN: Paul Senecal

Customer Sample ID: A1905-25C
Date Sampled.....: 12/19/2002
Time Sampled.....: 12:20
Sample Matrix.....: Soil

Laboratory Sample ID: 202825-4
Date Received.....: 12/27/2002
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
ASTM D-2216												
	% Solids, Solid	94.5			0.10	0.10	1	%	13261		01/02/03 0000	nev
	% Moisture, Solid	5.5			0.10	0.10	1	%	13261		01/02/03 0000	nev
Lloyd Kahn	Total Organic Carbon (Soils)											
	TOC Average Duplicates, Solid*	1060			48.5	106	1	mg/Kg	13432		01/06/03 1108	lam

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 202825 — Date:01/08/2003

CUSTOMER: MITKEM — PROJECT: TOC - LLOYD KAHN — ATTN: Paul Senecal

Customer Sample ID: A1905-15C
Date Sampled.....: 12/19/2002
Time Sampled.....: 09:50
Sample Matrix.....: Soil

Laboratory Sample ID: 202825-2
Date Received.....: 12/27/2002
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
ASTM D-2216												
	% Solids, Solid	83.3			0.10	0.10	1	%	13261		01/02/03 0000	nev
	% Moisture, Solid	16.7			0.10	0.10	1	%	13261		01/02/03 0000	nev
Lloyd Kahn	Total Organic Carbon (Soils)											
	TOC Average Duplicates, Solid*	21900			55.0	120	1	mg/Kg	13432		01/06/03 0958	lam

* In Description = Dry Wgt.

LABORATORY TEST RESULTS

Job Number: 202825 — Date:01/08/2003

CUSTOMER: MITKEM — PROJECT: TOC - LLOYD KAHN — ATTN: Paul Senecal

Customer Sample ID: A1905-28A
Date Sampled.....: 12/18/2002
Time Sampled.....: 11:25
Sample Matrix.....: Soil

Laboratory Sample ID: 202825-5
Date Received.....: 12/27/2002
Time Received.....: 09:20

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	S	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
ASTM D-2216	% solids, Solid	91.2			0.10	0.10	1	%	13261		01/02/03 0000	nav
	% Moisture, Solid	8.8			0.10	0.10	1	%	13261		01/02/03 0000	nav
Lloyd Kahn	Total Organic Carbon (Soils), Solid* TOC Average Duplicates	3930			50.2	110	1	mg/Kg	13432		01/06/03 1125	lam

* In Description = Dry Wt.

Page 6

0000007

LABORATORY CHRONICLE

Job Number: 202825 — Date: 01/08/2003

CUSTOMER: MITKEM — PROJECT: TOC - LLOYD KAHN — ATTN: Paul Senecal

Lab ID: 202825-1 — Client ID: A1905-06D — Date Recvd: 12/27/2002 — Sample Date: 12/16/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
ASTM D-2216		1	13261		01/02/2003 0000	
Lloyd Kahn	Total Organic Carbon (Soils)	1	13432		01/06/2003 0940	

Lab ID: 202825-2 — Client ID: A1905-15C — Date Recvd: 12/27/2002 — Sample Date: 12/19/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
ASTM D-2216		1	13261		01/02/2003 0000	
Lloyd Kahn	Total Organic Carbon (Soils)	1	13432		01/06/2003 0958	

Lab ID: 202825-3 — Client ID: A1905-21A — Date Recvd: 12/27/2002 — Sample Date: 12/19/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
ASTM D-2216		1	13261		01/02/2003 0000	
Lloyd Kahn	Total Organic Carbon (Soils)	1	13432		01/06/2003 1050	

Lab ID: 202825-4 — Client ID: A1905-25C — Date Recvd: 12/27/2002 — Sample Date: 12/19/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
ASTM D-2216		1	13261		01/02/2003 0000	
Lloyd Kahn	Total Organic Carbon (Soils)	1	13432		01/06/2003 1108	

Lab ID: 202825-5 — Client ID: A1905-28A — Date Recvd: 12/27/2002 — Sample Date: 12/18/2002

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED	DILUTION
ASTM D-2216		1	13261		01/02/2003 0000	
Lloyd Kahn	Total Organic Carbon (Soils)	1	13432		01/06/2003 1125	

Page 7

0000008

QUALITY CONTROL RESULTS

Job Number.: 202825 — Report Date.: 01/08/2003

CUSTOMER: MITKEM — PROJECT: TOC - LLOYD KAHN — ATTN: Paul Senecal

Test Method.....: Lloyd Kahn — Batch.....: 13432 — Analyst...: lam
Method Description.: Total Organic Carbon (Soils) — Equipment Code....: — Test Code.: TOCAV2
Parameter.....: TOC Average Duplicates

QC	Lab ID	Reagent	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
STD	13432-001	W02FSTK007	mg/Kg	45.80	U								01/05/2003	0830
STD	13432-002	W02DSTK020	mg/Kg	84.27			100.00						01/05/2003	0851
STD	13432-003	W02DSTK020	mg/Kg	562.20			500.00						01/05/2003	0912
STD	13432-004	W02DSTK020	mg/Kg	1061.00			1000.00						01/05/2003	0933
STD	13432-005	W02DSTK020	mg/Kg	2062.00			2000.00						01/05/2003	0954
STD	13432-006	W02FSTK002	mg/Kg	3917.00			4000.00						01/05/2003	1015
STD	13432-007	W02FSTK002	mg/Kg	6213.00			6000.00						01/05/2003	1036
ICV	13432-008	W02DSTK020	mg/Kg	2191.00			2000.00		110			85-115	01/05/2003	1057
ICB	13432-009		mg/Kg	45.8	U							~~75-125~~ 85-115	01/05/2003	1118
LCS	13432-010	W01ALCS003	mg/Kg	7806.00			6250.00		125		%	~~85-115~~ 75-125	01/05/2003	1139
MB	13432-011		mg/Kg	45.8	U								01/05/2003	1200
CCV	13432-012	W02DSTK020	mg/Kg	2062.00			2000.00		103		%	85-115	01/06/2003	0830
CCB	13432-013		mg/Kg	45.8	U							~~75-125~~ 85-115	01/06/2003	0848
LCS	13432-014	W01ALCS003	mg/Kg	6188.00			6250.00		99		%	~~85-115~~ 75-125	01/06/2003	0905
MB	13432-015		mg/Kg	45.8	U								01/06/2003	0923
MD	202825-2		mg/Kg	22136.85				21872.75	1.2			20.0	01/06/2003	1015
MS	202825-2	W02DSTK020	mg/Kg	24633.85			2269.00	21872.75	122	4		75-125	01/06/2003	1033
CCV	13432-023	W02DSTK020	mg/Kg	2090.00			2000.00		104		%	85-115	01/06/2003	1143
CCB	13432-024		mg/Kg	45.8	U								01/06/2003	1200

Page 8 — * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

0000009 MSH 1/8/03

TOC STANDARDS

Stock Standard: 2,000 ppm - C

Potassium hydrogen phthalate, stock solution, 2,000 ppm carbon - Dissolve 0.425 g of potassium hydrogen phthalate (KHP) (primary standard grade) in nanopure water in a 100 mL volumetric flask. Add 0.2 mL concentrated phosphoric acid (H_3PO_4) and take to volume with nanopure water. Store in amber glass bottle and keep refrigerated.

Working Standards Are prepared as follows:

Stock Conc. (ppm)	Stock volume (mL)	Final volume (mL)	Final Conc. (ppm)
2000			2000
2000	5.0	10	1000
2000	2.5	10	500
500	2.5	5	250

NOTE: All standards are acidified with 0.2 mL concentrated phosphoric acid.

Working Standards Preparation Table

Stock Conc. (ppm)	Stock Vol. (mL)	Stock ID	Final Vol. (mL)	Final Conc. (ppm)	Working Std. Lot#	Analyst	Date
8000	7.5	W02FSTK002	10.0	6000		lam	1/5/03
↓	5.0	↓	10.0	4000		↓	↓
2000	—	W02DSTK020	—	2000			
↓	5.0	↓	10.0	1000			
↓	2.5	↓	10.0	500			
↓	2.5	↓	50.0	100		↓	↓

Phosphoric Acid Source: J T Baker — LOT#: N39821

Reviewed by: MSH — Date: 1/8/03
STL Form# CVF02701.CT

Page 10 of 120
STL Logbook#CV69.1

0000010

13432

Total Organic Carbon (Soils) — **Instrument - TOC2**

Sample ID	Sample Mass	Read Out (ppm)	TOC (mg/Kg)	Sample Mass	Read Out (ppm)	TOC (mg/Kg)
Blank	40	Ø				
100		8427				
500		5682				
1000		10061				
2000		20162				
4000		3917				
6000		6213				
2002		2191				
Blank	↓	Ø				
LCS	18.2	7806				
Blank	40	Ø				

LCS T.V.	6250	LCS % Rec.	125	Spike % Rec.	NA	RPD	NA
Analyst	LAM			Date		11/5/03	

Working Stds: 022 0.102 Spike Added: NA CV: .9987

Reviewed by: MSH Date: 1/8/03

STL Form# CVF02701.CT

STL Logbook#CV69.1

Page 103 of 120

LCS = W01ALCS003

Total Organic Carbon (Soils) — **Instrument - TOC2**

Sample ID	Sample Mass	Read Out (ppm)	TOC (mg/Kg)	Sample Mass	Read Out (ppm)	TOC (mg/Kg)
2000	40	20102				
Blank	↓	Ø				
LCS	26.0	16188				11/6/03
Blank	40	Ø				
202825-1	10.7	2098		11.5	1944	
2	20.6	18200		22.1	18240	
20	21.2	18560		22.2	18320	
25	21.2	20530 ②		22.6	18930 ①	
3	20.5	5073		18.7	5477	
4	15.3	1071		16.2	9361	
↓ 5	16.2	3401		14.6	3038	
2000	40	2090				
Blank	↓	Ø				

LCS T.V.	6250 mg/kg	LCS % Rec.	99.0	Spike % Rec.	① 122 @ 39.9	RPD	1.2
Analyst	LAM			Date		1/6/03	

Working Stds: 022 0.102 Spike Added: ① 1890 mg/kg ② 1780 CV: 0.9997

Reviewed by: MSH Date: 1/8/03

STL Form# CVF02701.CT

STL Logbook#CV69.1

Page 105 of 120

LCS = W01ALCS003

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 01/08/2003

REPORT COMMENTS

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

2) Soil, sediment and sludge sample results are reported on a "dry weight" basis except when analyzed for landfill disposal or incineration parameters. All other solid matrix samples are reported on an "as received" basis unless noted differently.

3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

4) The test results for the noted analytical method(s) meet the requirements of NELAC. Lab Cert. ID# 10604

5) According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.

Glossary of flags, qualifiers and abbreviation

Inorganic Qualifiers (Q-Column)

U Analyte was not detected at or above the reporting limit.
< Not detected at or above the reporting limit.
J Result is less than the RL, but greater than or equal to the method detection limit.
B Result is less than the CRDL/RL, but greater than or equal to the IDL/MDL.
S Result was determined by the Method of Standard Additions.

Inorganic Flags (Flag Column)

- ICV,CCV,ICB,CCB,ISA,ISB,CRI,CRA,MRL: Instrument related QC exceed th upper or lower control limits.
* LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.
+ MSA correlation coefficient is less than 0.995.
4 MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
E SD: Serial dilution exceeds the control limits.
H MB, EB: Batch QC is greater than reporting limit or had a negative instrument reading lower than the absolute value of the reporting limit.
N MS, MSD: Spike recovery exceeds the upper or lower control limits.
W PS: Post-digestion spike was outside 85-115% control limits.

Organic Qualifiers (Q - Column)

U Analyte was not detected at or above the reporting limit.
ND Compound not detected.
J Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
Q Result was qualitatively confirmed, but not quantified.
C Pesticide identification was confirmed by GC/MS.
Y The chromatographic response resembles a typical fuel pattern.
Z The chromatographic response does not resemble a typical fuel pattern.
E Result exceeded calibration range, secondary dilution required.

Organic Flags (Flags Column)

- MB,EB, MLE: Batch QC is greater than reporting limit.
* LCS, LCD, CCV, MS, MSD, Surrogate, RS:Batch QC exceeds the upper or lower control limits.
A Concentration exceeds the instrument calibration range or below the reporting limit.
B Compound was found in the blank and sample.
D Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
N Alternate peak selection upon analytical review.
I Indicates the presence of an interfence, recovery is not calculated.
M Manually integrated compound.
P The lower of the two values is reported when the % difference between the results of two GC columns is greater than 25%.

---

175 Metro Center Blvd
Warwick, RI 02886-1755
(401) 733-3400

Subcontractor:
Severn Trent Laboratories
128 Long Hill Cross Road
Shelton, CT 06484
(203) 929-8140

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

24-Dec-02

Sample ID	Matrix	Collection Date	Requested Tests: E415.1 (10)										
A1905-09D	Soil	12/19/02 3:05:00 PM	1										
A1905-15C	Soil	12/19/02 8:50:00 AM	1										
A1905-21A	Soil	12/19/02 1:07:00 PM	1										
A1905-28C	Soil	12/18/02 12:20:00 PM	1										
A1905-28A	Soil	12/18/02 11:25:00 AM	1										

202825

01/09/2003

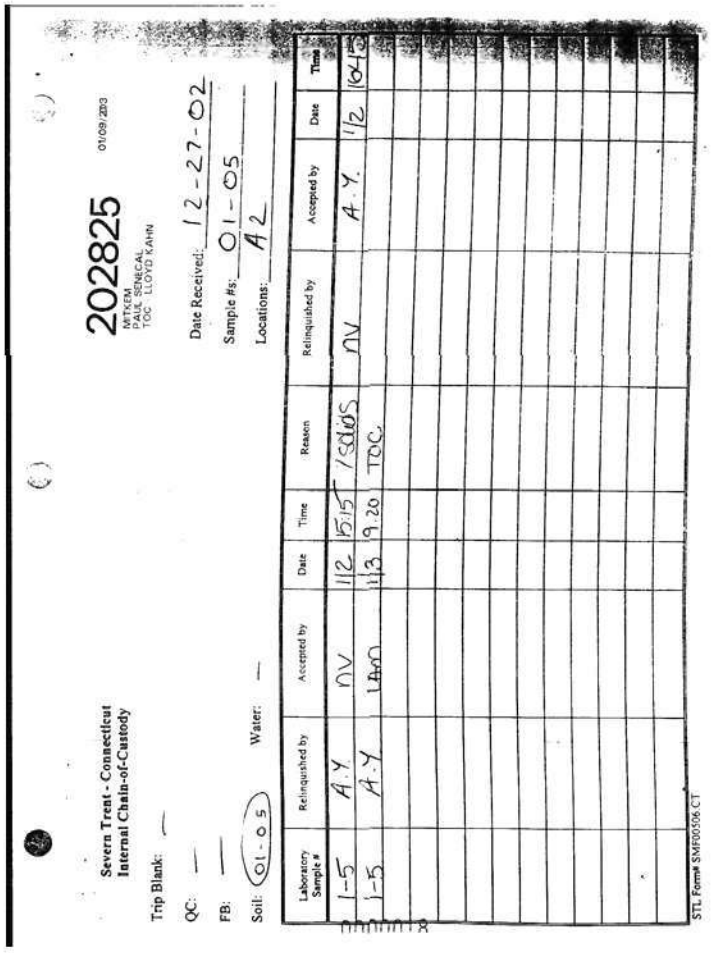
MATRIX: SENECAL
PAUL SENECAL
TOC - LLOYD KAHN

09°C
"PASSED RAD SCREEN"

1) E415.1 or equivalent method for the analysis of TOTAL ORGANIC CARBON BY COMBUSTIO

Comments: Please analyze these samples as quickly as possible. After analysis, the samples do not need to be returned and can be disposed per your standard laboratory practices. Please include all raw data.

Relinquished by:	Date/Time	Received by:	Date/Time
		Alan C. Hunsinger	12-17-02 09:30
Relinquished by:		Received by:	



202825

MITKEM
PAUL SENECAL
TOC LLOYD KAHN

Date Received: 12-27-02
Sample #s: 01-05
Locations: A2

Severn Trent - Connecticut
Internal Chain-of-Custody

Trip Blank: —
QC: —
FB: —
Soil: 01-05
Water: —

Laboratory Sample #	Relinquished by	Accepted by	Date	Time	Reason	Relinquished by	Accepted by	Date	Time
1-5	A.Y.	NV	12/12	1515	TOC	NV	A.Y.	1/2	1040
1-5	A.Y.	LAN	12/13	9:20					

STL Form# SMF00506.CT

SEVERN TRENT STL

Analytical Report

Report To: Mr. Paul Senecal
Mitkem Corporation
175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755

Project Name: 8315
STL Log Number: T205178
Report Date: January 7, 2003
Results: Pages **1** through **3**, excluding cover page.

Timothy R. Preston, Project Manager
timpreston@stl-inc.com

Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Severn Trent Laboratories, Inc.
STL Tallahassee • 2846 Industrial Plaza Drive, Tallahassee, FL 32301
Tel 850 878 3994 Fax 850 878 9504 • www.stl-inc.com

A part of Severn Trent plc

LOG NO: T2-05178
Received: 27 DEC 02
Reported: 07 JAN 03

Mr. Paul Senecal
Mitkem Corporation
175 Metro Center Boulevard
Warwick, RI 02886-1755

Client PO. No.: 203

Project: 8315
Sampled By: Client
Code: 15473017

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
05178-1	A1905-01C	12-17-02/11:15
05178-2	A1905-02C	12-17-02/11:30
05178-3	A1905-03C	12-17-02/12:05
05178-4	A1905-05D	12-16-02/14:35
05178-5	A1905-06D	12-16-02/15:05

PARAMETER	05178-1	05178-2	05178-3	05178-4	05178-5
Carbonyl Compounds (8315)					
Formaldehyde, ug/kg	110*F78	<100*F78	<100*F78	<110	<110
Prep Date	12.30.02	12.30.02	12.30.02	12.30.02	12.30.02
Analysis Date	01.03.03	01.03.03	01.03.03	01.03.03	01.03.03
Percent Solids	---	---	---	89	92

Severn Trent Laboratories, Inc.
STL Tallahassee • 2846 Industrial Plaza Drive, Tallahassee, FL 32301
Tel 850 878 3994 Fax 850 878 9504 • www.stl-inc.com

A part of Severn Trent plc

LOG NO: T2-05178
Received: 27 DEC 02
Reported: 07 JAN 03

Mr. Paul Senecal
Mitkem Corporation
175 Metro Center Boulevard
Warwick, RI 02886-1755

Client PO. No.: 203

Project: 8315
Sampled By: Client
Code: 15473017

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES	DATE/ TIME SAMPLED
05178-6	A1905-11B	12-16-02/13:15
05178-7	A1905-12B	12-16-02/13:20
05178-8	A1905-13B	12-16-02/13:10

PARAMETER	05178-6	05178-7	05178-8
Carbonyl Compounds (8315)			
Formaldehyde, ug/kg dw	<110	<110	<110
Prep Date	12.30.02	12.30.02	12.30.02
Analysis Date	01.03.03	01.03.03	01.03.03
Percent Solids	89	93	91

Severn Trent Laboratories, Inc.
STL Tallahassee • 2846 Industrial Plaza Drive, Tallahassee, FL 32301
Tel 850 878 3994 Fax 850 878 9504 • www.stl-inc.com

A part of Severn Trent plc

LOG NO: T2-05178
Received: 27 DEC 02
Reported: 07 JAN 03

Mr. Paul Senecal
Mitkem Corporation
175 Metro Center Boulevard
Warwick, RI 02886-1755

Client PO. No.: 203

Project: 8315
Sampled By: Client
Code: 15473017

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR SOLID/SEMISOLID	DATE/ TIME SAMPLED
05178-9	Method Blank	
05178-10	Accuracy (%Rec)	
05178-11	Precision (%RPD)	

PARAMETER	05178-9	05178-10	05178-11
Carbonyl Compounds (8315)			
Formaldehyde, ug/kg dw	<100	92 %	8.3 %
Prep Date	12.30.02	12.30.02	12.30.02
Analysis Date	01.03.03	01.03.03	01.03.03

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL Project Manager who signed this test report.

Method: EPA SW-846, Update III

*F7S = Insufficient sample volume was available to perform a percent solids test; therefore, sample results are reported on an "as is" basis.

A part of Severn Trent plc

Severn Trent Laboratories, Inc.
STL Tallahassee • 2846 Industrial Plaza Drive, Tallahassee, FL 32301
Tel 850 878 3994 Fax 850 878 9504 • www.stl-inc.com

CHAIN-OF-CUSTODY RECORD

T205178

A1905

Mitkem Corporation
175 Metro Center Blvd
Warwick, RI 02884-1725
(401) 732-3400

Subcontractor:
Severn Trent Laboratories
2846 Industrial Plaza Drive
Tallahassee, FL 32301

(850) 878-3994

24-Dec-02

Sample ID	Matrix	Collection Date	Requested Tests: SW8315							
A1905-01C	Cement	12/17/02 11:15:00 AM	1							
A1905-02C	Cement	12/17/02 11:30:00 AM	1							
A1905-03C	Cement	12/17/02 12:05:00 PM	1							
A1905-09D	Soil	12/16/02 2:35:00 PM	1							
A1905-09D	Soil	12/16/02 3:05:00 PM	1							
A1905-11B	Soil	12/16/02 1:15:00 PM	1							
A1905-12B	Soil	12/19/02 1:26:00 PM	1							
A1905-13B	Soil	12/16/02 1:10:00 PM	1							

1) SW8315 or equivalent method for the analysis of DETERMINATION OF CARBONYL COMPOU

Comments: Please analyze these samples as quickly as possible. After analysis, the samples do not need to be returned and can be disposed per your standard laboratory practices. SW8315 for Formaldehyde only. Please include all raw data.

Relinquished by:	Date/Time	Received by:	Date/Time
	12-26-02 3:00		12/27/02 0900
Relinquished by:		Received by:	

LEVEL IV DATA PACKAGE

STL Log Number: T205178

Prepared for
Mitkem Corporation, RI

by
STL Tallahassee
Tallahassee, Florida

Contents

Data Deliverables

Formaldehyde *Method 300.0*

Timothy Preston
timpreston@stl-inc.com

Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory

The pages of this report are numbered sequentially from 1 to 63.

FORMS

FORM 1
SV LC ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
05178-1

Lab Name: STL TALLAHASSEE Lab Code: TL
Client: Project: SDG No.: 05178
Matrix: (soil/water) SOIL Lab Sample ID: A1905-01C
Sample wt/vol: 20 (g/mL) G Lab File ID: 1A03K21
Level: (low/med) LOW Date Received: 12/27/02
% Moisture: 0 decanted: (Y/N) N Date Extracted:12/30/02
Concentrated Extract Volume: 4.0(mL) Date Analyzed: 01/03/03
Injection Volume: 10.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
50-00-0	Formaldehyde	110	

FORM 1
SV LC ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
05178-2

Lab Name: STL TALLAHASSEE Lab Code: TL
Client: Project: SDG No.: 05178
Matrix: (soil/water) SOIL Lab Sample ID: A1905-02C
Sample wt/vol: 20 (g/mL) G Lab File ID: 1A03K22
Level: (low/med) LOW Date Received: 12/27/02
% Moisture: 0 decanted: (Y/N) N Date Extracted:12/30/02
Concentrated Extract Volume: 4.0(mL) Date Analyzed: 01/03/03
Injection Volume: 10.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
50-00-0	Formaldehyde	100	U

FORM 1
SV LC ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
05178-3

Lab Name: STL TALLAHASSEE Lab Code: TL
Client: Project: SDG No.: 05178
Matrix: (soil/water) SOIL Lab Sample ID: A1905-03C
Sample wt/vol: 20 (g/mL) G Lab File ID: 1A03K23
Level: (low/med) LOW Date Received: 12/27/02
% Moisture: 0 decanted: (Y/N) N Date Extracted:12/30/02
Concentrated Extract Volume: 4.0(mL) Date Analyzed: 01/03/03
Injection Volume: 10.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
50-00-0	Formaldehyde	100	U

FORM 1
SV LC ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
05178-4

Lab Name: STL TALLAHASSEE Lab Code: TL
Client: Project: SDG No.: 05178
Matrix: (soil/water) SOIL Lab Sample ID: A1905-05D
Sample wt/vol: 20 (g/mL) G Lab File ID: 1A03K24
Level: (low/med) LOW Date Received: 12/27/02
% Moisture: 11 decanted: (Y/N) N Date Extracted:12/30/02
Concentrated Extract Volume: 4.0(mL) Date Analyzed: 01/03/03
Injection Volume: 10.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
50-00-0	Formaldehyde	110	U

FORM 1
SV LC ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
05178-5

Lab Name: STL TALLAHASSEE Lab Code: TL
Client: Project: SDG No.: 05178
Matrix: (soil/water) SOIL Lab Sample ID: A1905-06D
Sample wt/vol: 20 (g/mL) G Lab File ID: 1A03K25
Level: (low/med) LOW Date Received: 12/27/02
% Moisture: 8 decanted: (Y/N) N Date Extracted:12/30/02
Concentrated Extract Volume: 4.0(mL) Date Analyzed: 01/03/03
Injection Volume: 10.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
50-00-0	Formaldehyde	110	U

FORM 1
SV LC ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
05178-6

Lab Name: STL TALLAHASSEE Lab Code: TL
Client: Project: SDG No.: 05178
Matrix: (soil/water) SOIL Lab Sample ID: A1905-11B
Sample wt/vol: 20 (g/mL) G Lab File ID: 1A03K26
Level: (low/med) LOW Date Received: 12/27/02
% Moisture: 11 decanted: (Y/N) N Date Extracted:12/30/02
Concentrated Extract Volume: 4.0(mL) Date Analyzed: 01/03/03
Injection Volume: 10.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
50-00-0	Formaldehyde	110	U

FORM 1
SV LC ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
05178-7

Lab Name: STL TALLAHASSEE Lab Code: TL
Client: Project: SDG No.: 05178
Matrix: (soil/water) SOIL Lab Sample ID: A1905-12B
Sample wt/vol: 20 (g/mL) G Lab File ID: 1A03K27
Level: (low/med) LOW Date Received: 12/27/02
% Moisture: 7 decanted: (Y/N) N Date Extracted:12/30/02
Concentrated Extract Volume: 4.0(mL) Date Analyzed: 01/03/03
Injection Volume: 10.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
50-00-0	Formaldehyde	110	U

FORM 1
SV LC ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
05178-8

Lab Name: STL TALLAHASSEE Lab Code: TL
Client: Project: SDG No.: 05178
Matrix: (soil/water) SOIL Lab Sample ID: A1905-13B
Sample wt/vol: 20 (g/mL) G Lab File ID: 1A03K28
Level: (low/med) LOW Date Received: 12/27/02
% Moisture: 9 decanted: (Y/N) N Date Extracted:12/30/02
Concentrated Extract Volume: 4.0(mL) Date Analyzed: 01/03/03
Injection Volume: 10.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
50-00-0	Formaldehyde	110	U

FORM 1
SV LC ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: 1230FMB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: 05178

Matrix: (soil/water) SOIL Lab Sample ID: METHOD BLANK

Sample wt/vol: 20 (g/mL) G Lab File ID: 1A03K18

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:12/30/02

Concentrated Extract Volume: 4.0(mL) Date Analyzed: 01/03/03

Injection Volume: 10.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
50-00-0	Formaldehyde	100	U

FORM 1
SV LC ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: 1230FMBLCS

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: 05178

Matrix: (soil/water) SOIL Lab Sample ID: LAB SPIKE

Sample wt/vol: 20 (g/mL) G Lab File ID: 1A03K19

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:12/30/02

Concentrated Extract Volume: 4.0(mL) Date Analyzed: 01/03/03

Injection Volume: 10.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
50-00-0	Formaldehyde	690	

FORM 1
SV LC ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: 1230FMBLCSD

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: 05178

Matrix: (soil/water) SOIL Lab Sample ID: LAB SPIKE DUP

Sample wt/vol: 20 (g/mL) G Lab File ID: 1A03K20

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:12/30/02

Concentrated Extract Volume: 4.0(mL) Date Analyzed: 01/03/03

Injection Volume: 10.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
50-00-0	Formaldehyde	750	

FORM 3
SOIL SV LC LAB CONTROL SAMPLE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: 05178

Matrix Spike - Sample No.: 1230FMB Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONC (ug/Kg)	LCS CONC (ug/Kg)	LCS % REC#	QC. LIMITS REC.
Formaldehyde	750	0.00	690	92	43-142

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONC (ug/Kg)	LCSD % REC#	AVG % REC	% RPD$#	QC LIMITS RPD	QC LIMITS REC.
Formaldehyde	750	750	100	96	8.3	30	43-142

$ %RPD calculated using the spike and spike duplicate concentrations as per SW846 8000B

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS: _____

FORM 4
SV LC METHOD BLANK SUMMARY

CLIENT SAMPLE NO.
1230FMB

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: 05178

Lab File ID: 1A03K18 Lab Sample ID: METHOD BLANK

Instrument ID: TLCKUV1 Date Extracted: 12/30/02

Matrix: (soil/water) SOIL Date Analyzed: 01/03/03

Level: (low/med) LOW Time Analyzed: 1354

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	1230FMBLCS	LAB SPIKE	1A03K19	01/03/03
02	1230FMBLCSD	LAB SPIKE DUP	1A03K20	01/03/03
03	05178-1	A1905-01C	1A03K21	01/03/03
04	05178-2	A1905-02C	1A03K22	01/03/03
05	05178-3	A1905-03C	1A03K23	01/03/03
06	05178-4	A1905-05D	1A03K24	01/03/03
07	05178-5	A1905-06D	1A03K25	01/03/03
08	05178-6	A1905-11B	1A03K26	01/03/03
09	05178-7	A1905-12B	1A03K27	01/03/03
10	05178-8	A1905-13B	1A03K28	01/03/03
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM 6
SV LC INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: 05178

Instrument ID: TLCKUV1 Calibration Date(s): 01/03/03 01/03/03

Column: C18 ID: 4.60 (mm) Calibration Time(s): 1103 1146

LAB FILE ID: RF0.5: 1A03K2 RF1.25: 1A03K3 RF2.5: 1A03K4
RF12.5: 1A03K5 RF25: 1A03K6

COMPOUND	RF0.5	RF1.25	RF2.5	RF12.5	RF25
Formaldehyde	41660	31638	22517	18536	17209

FORM 6
SV LC INITIAL CALIBRATION DATA

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: 05178

Instrument ID: TLCKUV1 Calibration Date(s): 01/03/03 01/03/03

Column: C18 ID: 4.60 (mm) Calibration Time(s): 1103 1146

COMPOUND	CURVE	COEFFICIENTS A0	COEFFICIENTS A1	%RSD or R^2
Formaldehyde	LINR	-0.979	5.991e-005	0.999

FORM 7
SV LC CALIBRATION VERIFICATION SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: 05178

Instrument ID: TLCKUV1 Calibration Date: 01/03/03 Time: 1343

Lab File ID: 1A03K17 Init. Calib. Date(s): 01/03/03 01/03/03

Init. Calib. Times: 1103 1146

GC Column: C18 ID: 4.60 (mm)

COMPOUND	ICAL2.5 AMT/ AVG RF	CCAL AMT	CCAL RF	MIN RF	%DRIFT /%D*	MAX %DRIFT /%D*	CURVE
Formaldehyde	2.5	2.3	21849	0.01	8.0	15.0	LINR

*%Drift is reported for linear and 2nd order curves and %D (%Difference) is reported for average curves.

FORM 7
SV LC CALIBRATION VERIFICATION SUMMARY

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: 05178

Instrument ID: TLCKUV1 Calibration Date: 01/03/03 Time: 1635

Lab File ID: 1A03K33 Init. Calib. Date(s): 01/03/03 01/03/03

Init. Calib. Times: 1103 1146

GC Column: C18 ID: 4.60 (mm)

COMPOUND	ICAL2.5 AMT/ AVG RF	CCAL AMT	CCAL RF	MIN RF	%DRIFT /%D*	MAX %DRIFT /%D*	CURVE
Formaldehyde	2.5	2.3	22061	0.01	8.0	15.0	LINR

*%Drift is reported for linear and 2nd order curves and %D (%Difference) is reported for average curves.

FORM VII SV LC

FORM 8
SV LC ANALYTICAL SEQUENCE

Lab Name: STL TALLAHASSEE Lab Code: TL

Client: Project: SDG No.: 05178

GC Column: C18 ID: 4.60 (mm) Init. Calib. Date(s): 01/03/03 01/03/03

Instrument ID: TLCKUV1

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

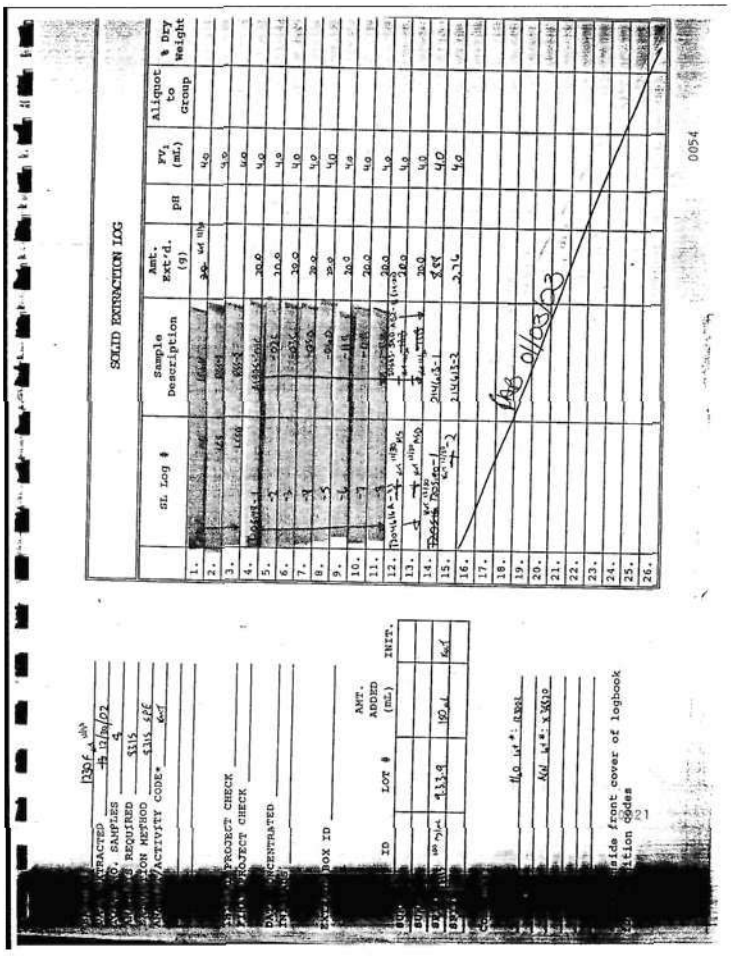
	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	RT	RT
01		CAL1.0102F	01/03/03	1103		
02		CAL2.0102F	01/03/03	1113		
03		CAL3.0102F	01/03/03	1124		
04		CAL4.0102F	01/03/03	1135		
05		CAL5.0102F	01/03/03	1146		
06		MED.0102F	01/03/03	1343		
07	1230FMB	METHOD BLANK	01/03/03	1354		
08	1230FMBLCS	LAB SPIKE	01/03/03	1405		
09	1230FMBLCSD	LAB SPIKE DU	01/03/03	1416		
10	05178-1	A1905-01C	01/03/03	1426		
11	05178-2	A1905-02C	01/03/03	1437		
12	05178-3	A1905-03C	01/03/03	1448		
13	05178-4	A1905-05D	01/03/03	1458		
14	05178-5	A1905-06D	01/03/03	1509		
15	05178-6	A1905-11B	01/03/03	1520		
16	05178-7	A1905-12B	01/03/03	1531		
17	05178-8	A1905-13B	01/03/03	1541		
18	ZZZZZ	ZZZZZ	01/03/03	1552		
19	ZZZZZ	ZZZZZ	01/03/03	1603		
20	ZZZZZ	ZZZZZ	01/03/03	1614		
21	ZZZZZ	ZZZZZ	01/03/03	1624		
22		MED.0102F	01/03/03	1635		
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						

QC LIMITS

page 1 of 1

FORM VIII SV LC

EXTRACTION LOG(S)



ANALYSIS LOG(S)

SAMPLE INFORMATION SUMMARY

Client SDG: 05178 Sample Fraction: SV LC

QCGroup	Batch	DataFile	Sample Type	Client Id	Lab ID	SmplRef	Lab Prep	SDG
3401412	1K0103.b	1A03K2.d	CALIB_1		CAL1.0102F	3401455		
3401412	1K0103.b	1A03K3.d	CALIB_2		CAL2.0102F	3401456		
3401412	1K0103.b	1A03K4.d	CALIB_3		CAL3.0102F	3401457		
3401412	1K0103.b	1A03K5.d	CALIB_4		CAL4.0102F	3401440		
3401412	1K0103.b	1A03K6.d	CALIB_5		CAL5.0102F	3401444		
3401412	1K0103.b	1A03K17.d	CCALIB_3		MED.0102F	3401493		
3401412	1K0103.b	1A03K33.d	CCALIB_3		MED.0102F	3401546		
3401412	1K0103.b	1A03K18.d	BLANK	1230FMB	METHOD BLANK	3401597	1230F	05178
3401412	1K0103.b	1A03K19.d	LCS	1230FMBLCS	LAB SPIKE	3401502	1230F	05178
3401412	1K0103.b	1A03K20.d	LCSD	1230FMBLCSD	LAB SPIKE DUP	3401503	1230F	05178
3401412	1K0103.b	1A03K21.d	SAMPLE	05178-1	A1905-01C	3401527	1230F	05178
3401412	1K0103.b	1A03K22.d	SAMPLE	05178-2	A1905-02C	3401528	1230F	05178
3401412	1K0103.b	1A03K23.d	SAMPLE	05178-3	A1905-03C	3401598	1230F	05178
3401412	1K0103.b	1A03K24.d	SAMPLE	05178-4	A1905-05D	3401521	1230F	05178
3401412	1K0103.b	1A03K25.d	SAMPLE	05178-5	A1905-06D	3401530	1230F	05178
3401412	1K0103.b	1A03K26.d	SAMPLE	05178-6	A1905-11B	3401531	1230F	05178
3401412	1K0103.b	1A03K27.d	SAMPLE	05178-7	A1905-12B	3401535	1230F	05178
3401412	1K0103.b	1A03K28.d	SAMPLE	05178-8	A1905-13B	3401536	1230F	05178

SEQUENCE FILE: 1A03K

8315 01/03/03 RAB

SAMPLE NAME	METHOD NAME	DATA FILE
1 MED.0102F*1K0103	A8315	1A03K
[redacted]	A8315	1A03K
	A8315	1A03K
	A8315	1A03K
	A8315	1A03K
	A8315	1A03K
7 0102FMB*1K0103	A8315	1A03K
8 0102FLCS*1K0103	A8315	1A03K
9 0102FLCSD*1K0103	A8315	1A03K
10 49168-1*1K0103	A8315	1A03K
11 49168-2*1K0103	A8315	1A03K
12 49168-3*1K0103	A8315	1A03K
~~13 49168-4*1K0103~~ Reshot	A8315	1A03K
14 49168-5*1K0103	A8315	1A03K
15 05155-2MS*1K0103	A8315	1A03K
16 05155-2MSD*1K0103	A8315	1A03K
[redacted]	A8315	1A03K
	A8315	1A03K
	A8315	1A03K
	A8315	1A03K
	A8315	1A03K
	A8315	1A03K
	A8315	1A03K
	A8315	1A03K
	A8315	1A03K
	A8315	1A03K
	A8315	1A03K
	A8315	1A03K
29 05190-1*1K0103	A8315	1A03K
30 05190-2*1K0103 need R	A8315	1A03K
31 046164-11MS*1K0103	A8315	1A03K
32 046164-11MSD*1K0103	A8315	1A03K
[redacted]	A8315	1A03K
34 0102GMB*1K0103	A8315	1A03K
35 0102GLCS*1K0103	A8315	1A03K
36 0102GLCSD*1K0103	A8315	1A03K
37 05142-1*1K0103	A8315	1A03K
38 05142-2*1K0103	A8315	1A03K
39 05142-3*1K0103	A8315	1A03K
40 05142-4*1K0103	A8315	1A03K
41 05142-4MS*1K0103	A8315	1A03K
42 05142-4MSD*1K0103	A8315	1A03K
43 05142-5*1K0103 need r2	A8315	1A03K
44 05142-6*1K0103	A8315	1A03K
45 49168-4*1K0103	A8315	1A03K
46 05190-2*1K0103 r2	A8315	1A03K
47 MED.0102F*1K0103	A8315	1A03K

pass

RAB 01/06/03

CALIBRATION DATA

Data File: \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K2.d Page 1
Report Date: 15-Jan-2003 12:40

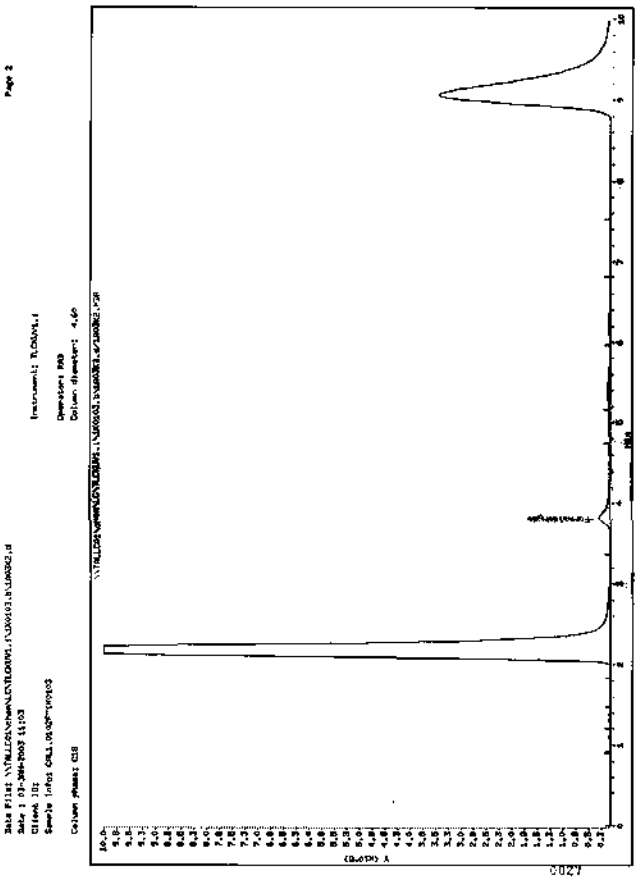
STL Tallahassee

Semivolatile REPORT SW-846 Method 8315

Data file : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K2.d
Lab Smp Id: CAL1.0102F
Inj Date : 03-JAN-2003 11:03
Operator : RAB Inst ID: TLCKUV1.i
Smp Info : CAL1.0102F~1K0103
Misc Info : FFFFFF
Comment :
Method : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\j-b8315-uv.m
Meth Date : 06-Jan-2003 08:01 rbrockwe Quant Type: ESTD
Cal Date : 03-JAN-2003 11:03 Cal File: 1A03K2.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: formXacro.sub
Target Version: 4.03
Processing Host: TALLC01

					AMOUNTS	
Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
1 Formaldehyde	1.817	1.400	0.417	30815	0.50000	0.50

0026



0027

Data File: \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K3.d Page 1
Report Date: 15-Jan-2003 12:40

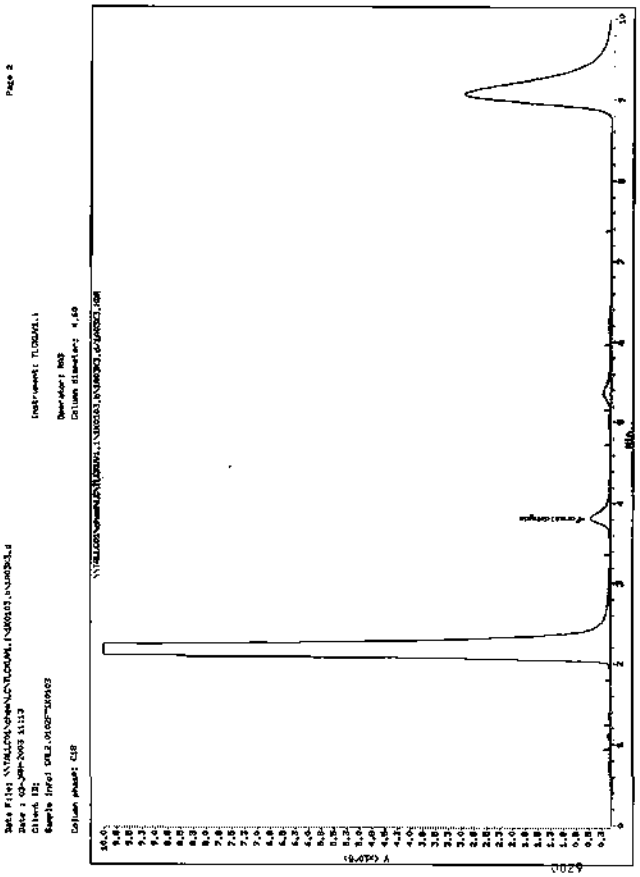
STL Tallahassee

Semivolatile REPORT SW-846 Method 8315

Data file : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K3.d
Lab Smp Id: CAL2.0102F
Inj Date : 03-JAN-2003 11:13
Operator : RAB Inst ID: TLCKUV1.i
Smp Info : CAL2.0102F~1K0103
Misc Info : FFFFFF
Comment :
Method : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\j-b8315-uv.m
Meth Date : 06-Jan-2003 08:01 rbrockwe Quant Type: ESTD
Cal Date : 03-JAN-2003 11:13 Cal File: 1A03K3.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: formXacro.sub
Target Version: 4.03
Processing Host: TALLC01

					AMOUNTS	
Compounds	RT	EXP RT	DLT RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
1 Formaldehyde	1.817	1.400	0.417	39548	1.25000	1.2

0028



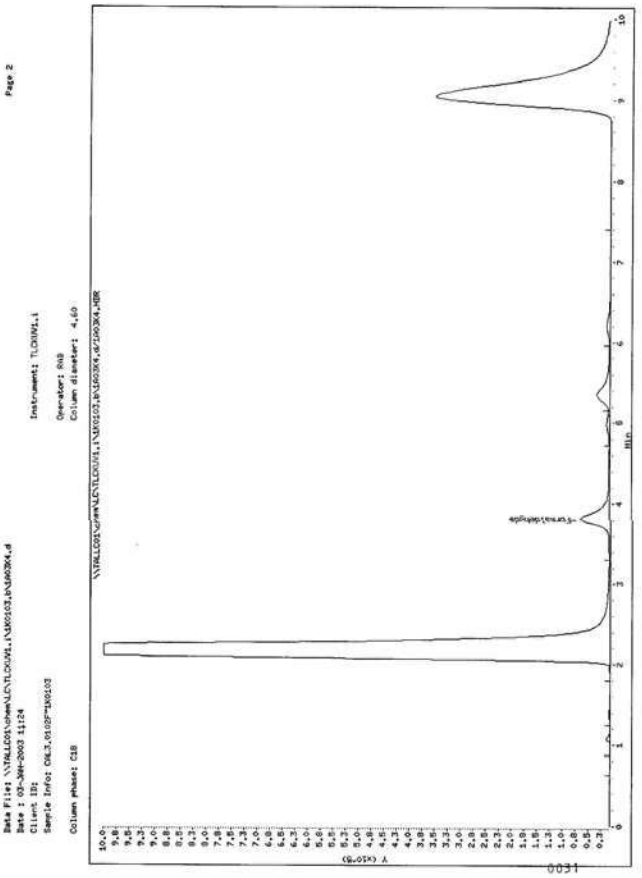
0029

Data File: \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K4.d Page 1
Report Date: 15-Jan-2003 12:40

STL Tallahassee

Semivolatile REPORT SW-846 Method 8315
Data file : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K4.d
Lab Smp Id: CAL3.0102F
Inj Date : 03-JAN-2003 11:24
Operator : RAB Inst ID: TLCKUV1.i
Smp Info : CAL3.0102F~1K0103
Misc Info : FFFFFF
Comment :
Method : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\j-b8315-uv.m
Meth Date : 06-Jan-2003 08:01 rbrockwe Quant Type: ESTD
Cal Date : 03-JAN-2003 11:24 Cal File: 1A03K4.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: formXacro.sub
Target Version: 4.03
Processing Host: TALLC01

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
1 Formaldehyde	3.817	3.800	0.017	56292	2.50000	2.4

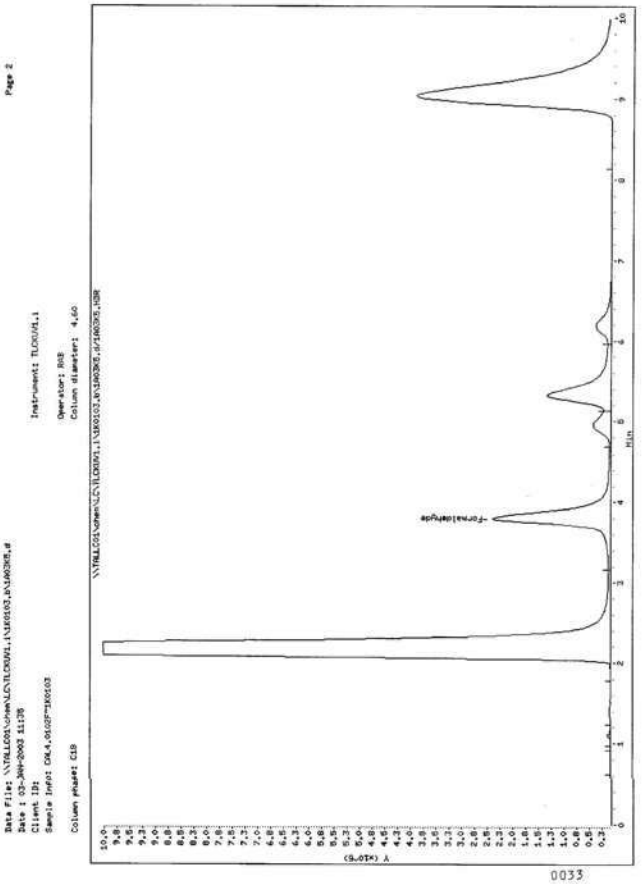


Data File: \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K5.d Page 1
Report Date: 15-Jan-2003 12:40

STL Tallahassee

Semivolatile REPORT SW-846 Method 8315
Data file : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K5.d
Lab Smp Id: CAL4.0102F
Inj Date : 03-JAN-2003 11:35
Operator : RAB Inst ID: TLCKUV1.i
Smp Info : CAL4.0102F~1K0103
Misc Info : FFFFFF
Comment :
Method : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\j-b8315-uv.m
Meth Date : 06-Jan-2003 08:01 rbrockwe Quant Type: ESTD
Cal Date : 03-JAN-2003 11:35 Cal File: 1A03K5.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: formXacro.sub
Target Version: 4.03
Processing Host: TALLC01

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	ON-COL (ug/ml)
1 Formaldehyde	3.800	3.800	0.000	231705	12.5000	12



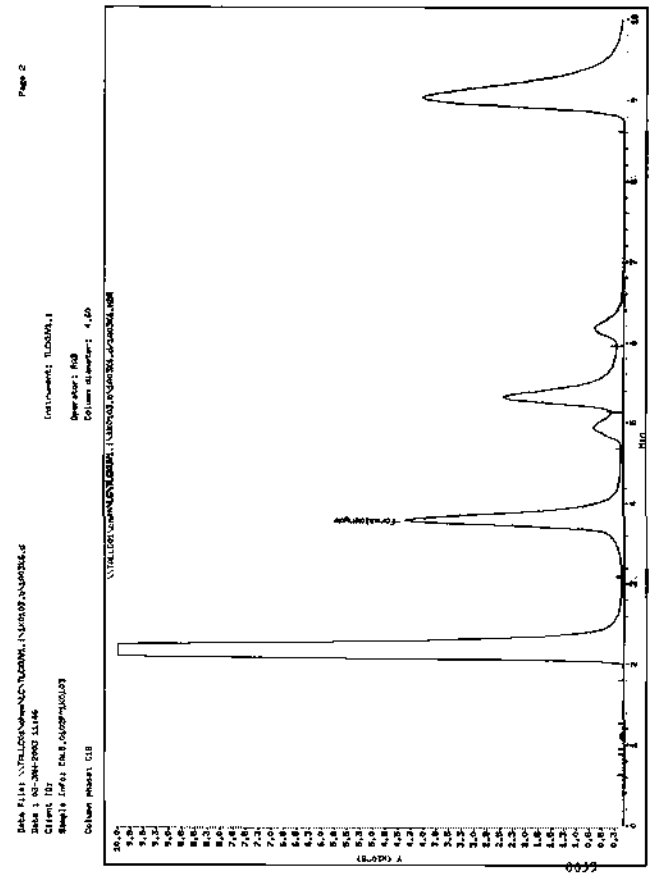
Data File: \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K6.d Page 1
Report Date: 15-Jan-2003 12:40

STL Tallahassee

Semivolatile REPORT SW-846 Method 8315
Data file : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K6.d
Lab Smp Id: CAL5.0102F
Inj Date : 03-JAN-2003 11:46
Operator : RAB Inst ID: TLCKUV1.i
Smp Info : CAL5.0102F^1K0103
Misc Info : FFFFFF
Comment :
Method : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\j-b8315-uv.m
Meth Date : 06-Jan-2003 08:01 rbrockwe Quant Type: ESTD
Cal Date : 03-JAN-2003 11:46 Cal File: 1A03K6.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: formXacro.sub
Target Version: 4.03
Processing Host: TALLC01

Compounds	RT	Exp RT	Dlt RT	Response	AMOUNTS Cal-Amt (ug/ml)	QM-COL (ug/ml)
1 Formaldehyde	3.793	3.809	-0.017	630230	25.0000	25

0034



0035

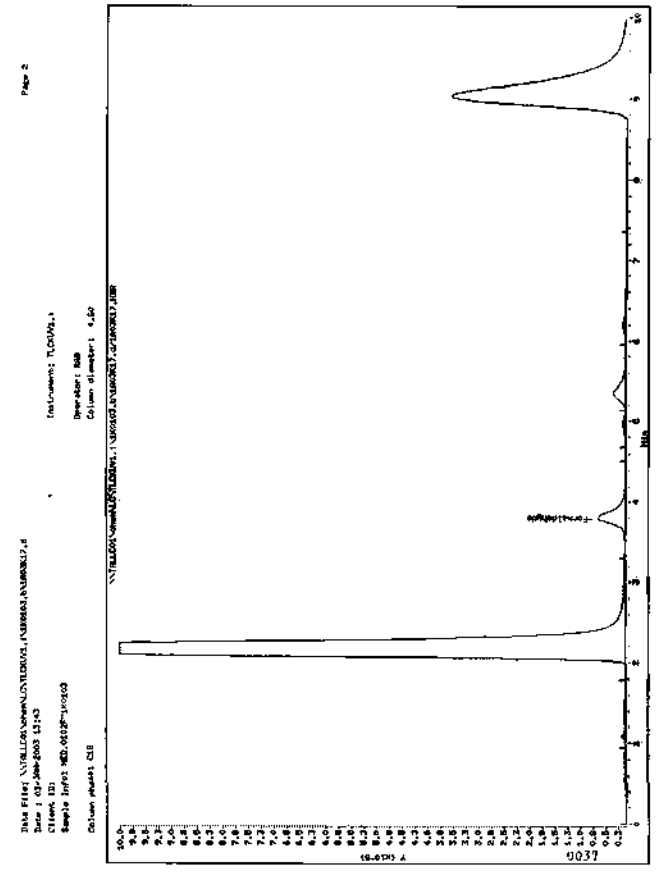
Data File: \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K17.d Page 1
Report Date: 15-Jan-2003 12:41

STL Tallahassee

Semivolatile REPORT SW-846 Method 8315
Data file : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K17.d
Lab Smp Id: MED.0102F
Inj Date : 03-JAN-2003 13:43
Operator : RAB Inst ID: TLCKUV1.i
Smp Info : MED.0102F^1K0103
Misc Info : FFFFFF
Comment :
Method : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\j-b8315-uv.m
Meth Date : 06-Jan-2003 08:01 rbrockwe Quant Type: ESTD
Cal Date : 03-JAN-2003 11:46 Cal File: 1A03K6.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: formXacro.sub
Target Version: 4.03
Processing Host: TALLC01

Compounds	RT	Exp RT	Dlt RT	Response	AMOUNTS Cal-Amt (ug/ml)	QM-COL (ug/ml)
1 Formaldehyde	3.809	3.809	0.000	54821	2.59000	2.3

0036



0037

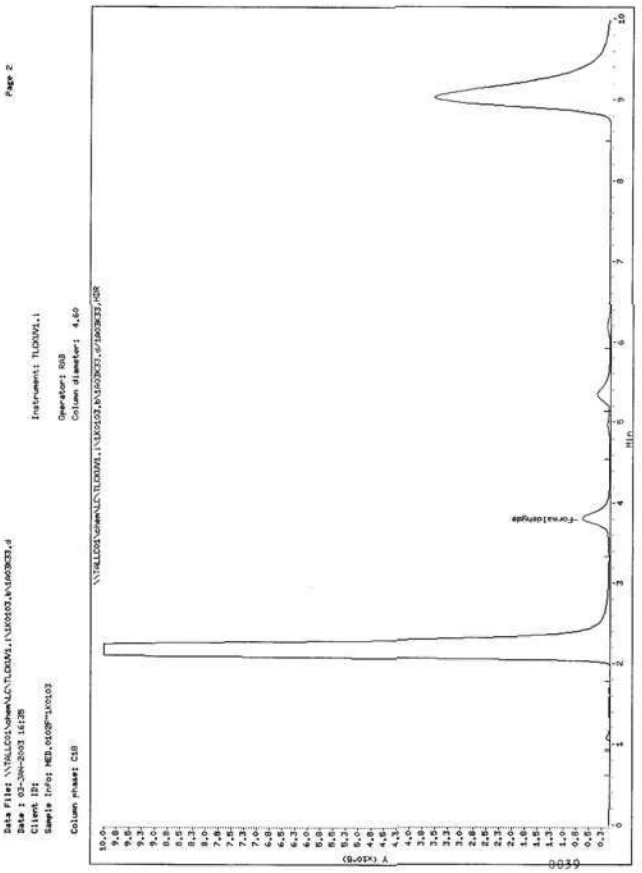
Data File: \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K33.d Page 1
Report Date: 15-Jan-2003 12:41

STL Tallahassee

Semivolatile REPORT SW-846 Method 8315

Data file : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K33.d
Lab Smp Id: MED.0102F
Inj Date : 03-JAN-2003 16:35
Operator : RAB Inst ID: TLCKUV1.i
Smp Info : MED.0102F^1K0103
Misc Info : FFFFFF
Comment :
Method : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\j-b8315-uv.m
Meth Date : 06-Jan-2003 08:01 rbrockwe Quant Type: ESTD
Cal Date : 03-JAN-2003 11:46 Cal File: 1A03K6.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: formXacro.sub
Target Version: 4.03
Processing Host: TALLC01

					AMOUNTS	
					CAL-AMT	ON-COL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/ml)	(ug/ml)
1 Formaldehyde	3.800	3.800	0.000	55152	2.50000	2.3



SAMPLE DATA

Data File: \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K21.d Page 1
Report Date: 15-Jan-2003 12:45

STL Tallahassee

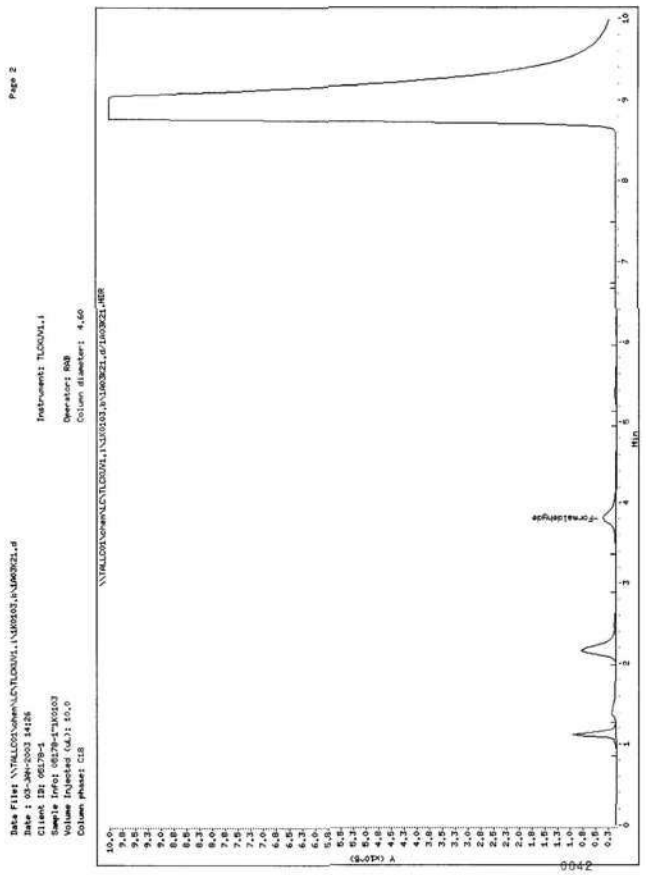
Semivolatile REPORT SW-846 Method 8315

Data file : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K21.d
Lab Smp Id: A1905-01C Client Smp ID: 05178-1
Inj Date : 03-JAN-2003 14:26
Operator : RAB Inst ID: TLCKUV1.i
Smp Info : 05178-1^1K0103
Misc Info : FFFFFF
Comment :
Method : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\j-b8315-uv.m
Meth Date : 06-Jan-2003 08:01 rbrockwe Quant Type: ESTD
Cal Date : 03-JAN-2003 11:46 Cal File: 1A03K6.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: formXacro.sub
Target Version: 4.03
Processing Host: TALLC04

Concentration Formula: Amt * DF * Vt/Ws * (100/(100 - M)) * A * E

Name	Value	Description
DF	1.000	Dilution Factor
Vt	4.000	Volume of final extract
Ws	20.000	Weight of sample extract
M	0.000	% Moisture
A	1000.000	g to kg conversion
E	1.000	ug to mg conversion (1 if no conversion)

					CONCENTRATIONS	
					ON-COLUMN	FINAL
Compounds	RT	EXP RT	DLT RT	RESPONSE	(ug/ml)	(ug/Kg)
1 Formaldehyde	3.817	3.800	0.017	25265	0.53445	110



0042

Data File: \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K22.d Page 1
Report Date: 15-Jan-2003 12:45

STL Tallahassee

Semivolatile REPORT SW-846 Method 8315

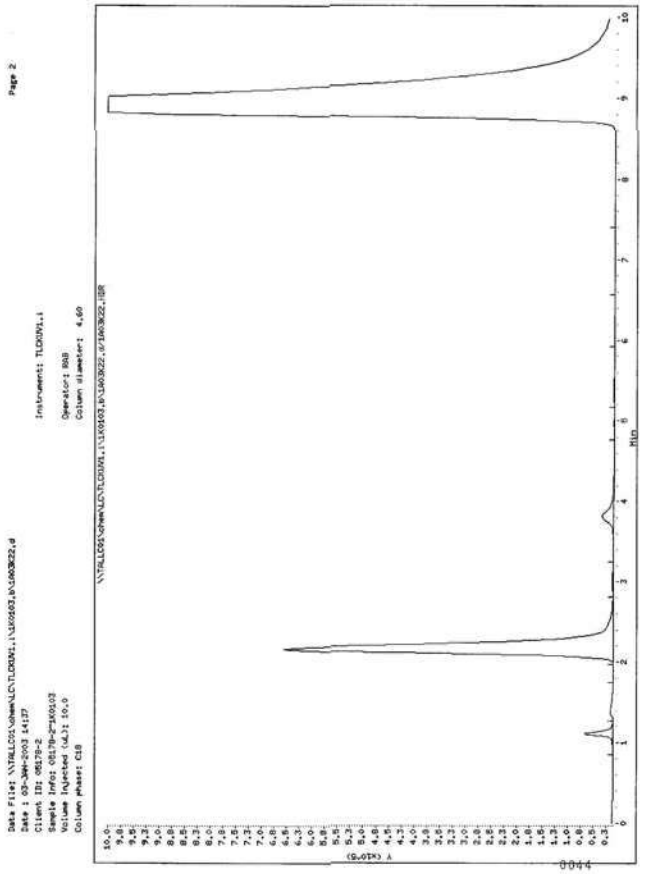
Data file : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K22.d
Lab Smp Id: A1905-02C Client Smp ID: 05178-2
Inj Date : 03-JAN-2003 14:37
Operator : RAB Inst ID: TLCKUV1.i
Smp Info : 05178-2^1K0103
Misc Info : FFFFFF
Comment :
Method : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\j-b8315-uv.m
Meth Date : 06-Jan-2003 08:01 rbrockwe Quant Type: ESTD
Cal Date : 03-JAN-2003 11:46 Cal File: 1A03K6.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: formXacro.sub
Target Version: 4.03
Processing Host: TALLC04

Concentration Formula: Amt * DF * Vt/Ws * (100/(100 - M)) * A * E

Name	Value	Description
DF	1.000	Dilution Factor
Vt	4.000	Volume of final extract
Ws	20.000	Weight of sample extract
M	0.000	% Moisture
A	1000.000	g to kg conversion
E	1.000	ug to mg conversion (1 if no conversion)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
1 Formaldehyde	Compound Not Detected.					

0043



0044

Data File: \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K23.d Page 1
Report Date: 15-Jan-2003 12:46

STL Tallahassee

Semivolatile REPORT SW-846 Method 8315

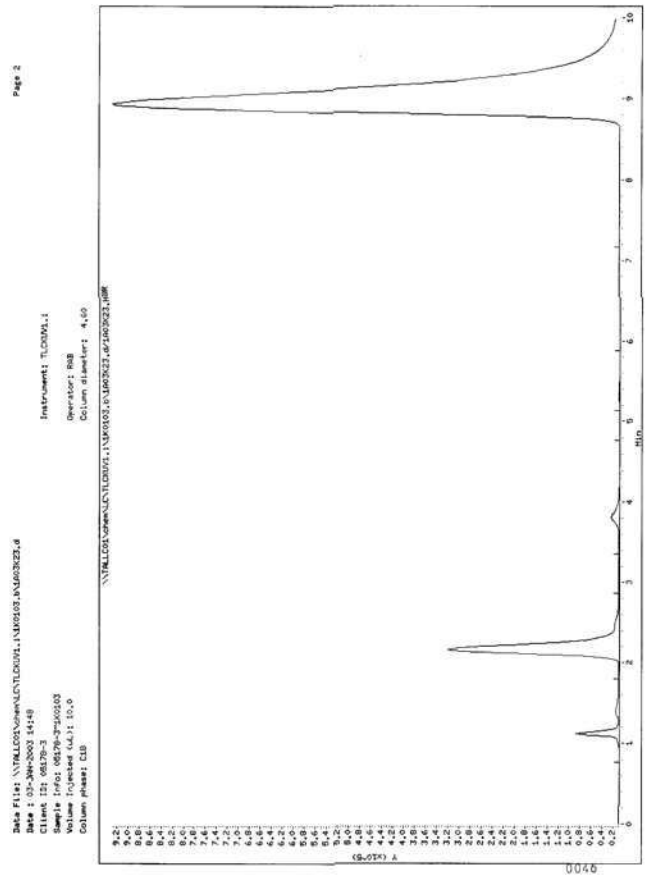
Data file : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K23.d
Lab Smp Id: A1905-03C Client Smp ID: 05178-3
Inj Date : 03-JAN-2003 14:48
Operator : RAB Inst ID: TLCKUV1.i
Smp Info : 05178-3^1K0103
Misc Info : FFFFFF
Comment :
Method : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\j-b8315-uv.m
Meth Date : 06-Jan-2003 08:01 rbrockwe Quant Type: ESTD
Cal Date : 03-JAN-2003 11:46 Cal File: 1A03K6.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: formXacro.sub
Target Version: 4.03
Processing Host: TALLC04

Concentration Formula: Amt * DF * Vt/Ws * (100/(100 - M)) * A * E

Name	Value	Description
DF	1.000	Dilution Factor
Vt	4.000	Volume of final extract
Ws	20.000	Weight of sample extract
M	0.000	% Moisture
A	1000.000	g to kg conversion
E	1.000	ug to mg conversion (1 if no conversion)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
1 Formaldehyde	Compound Not Detected.					

0045



0046

Data File: \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K24.d Page 1
Report Date: 15-Jan-2003 12:46

STL Tallahassee

Semivolatile REPORT SW-846 Method 8315

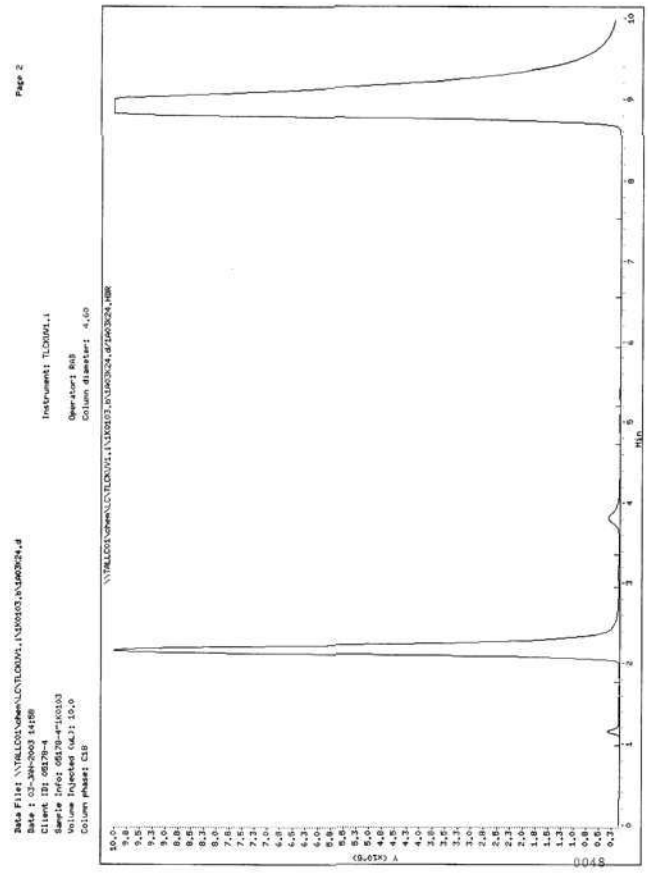
Data file : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K24.d
Lab Smp Id: A1905-05D Client Smp ID: 05178-4
Inj Date : 03-JAN-2003 14:58
Operator : RAB Inst ID: TLCKUV1.i
Smp Info : 05178-4^1K0103
Misc Info : FFFFFF
Comment :
Method : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\j-b8315-uv.m
Meth Date : 06-Jan-2003 08:01 rbrockwe Quant Type: ESTD
Cal Date : 03-JAN-2003 11:46 Cal File: 1A03K6.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: formXacro.sub
Target Version: 4.03
Processing Host: TALLC04

Concentration Formula: Amt * DF * Vt/Ws * (100/(100 - M)) * A * E

Name	Value	Description
DF	1.000	Dilution Factor
Vt	4.000	Volume of final extract
Ws	20.000	Weight of sample extract
M	11.000	% Moisture
A	1000.000	g to kg conversion
E	1.000	ug to mg conversion (1 if no conversion)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
1 Formaldehyde	Compound Not Detected.					

0047



0048

Data File: \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K25.d Page 1
Report Date: 15-Jan-2003 12:46

STL Tallahassee

Semivolatile REPORT SW-846 Method 8315

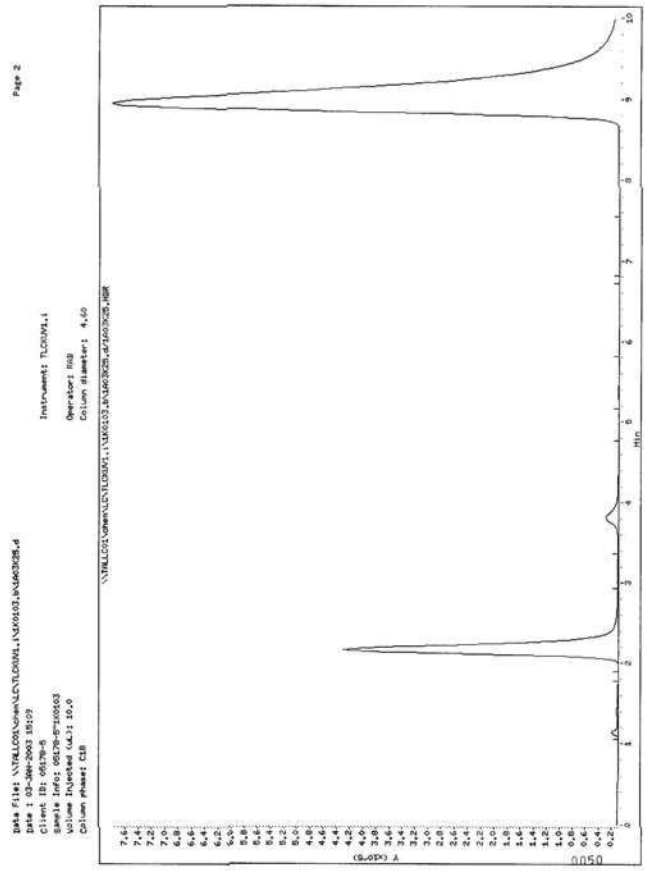
Data file : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K25.d
Lab Smp Id: A1905-06D Client Smp ID: 05178-5
Inj Date : 03-JAN-2003 15:09
Operator : RAB Inst ID: TLCKUV1.i
Smp Info : 05178-5^1K0103
Misc Info : FFFFFF
Comment :
Method : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\j-b8315-uv.m
Meth Date : 06-Jan-2003 08:01 rbrockwe Quant Type: ESTD
Cal Date : 03-JAN-2003 11:46 Cal File: 1A03K6.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: formXacro.sub
Target Version: 4.03
Processing Host: TALLC04

Concentration Formula: Amt * DF * Vt/Ws * (100/(100 - M)) * A * E

Name	Value	Description
DF	1.000	Dilution Factor
Vt	4.000	Volume of final extract
Ws	20.000	Weight of sample extract
M	8.000	% Moisture
A	1000.000	g to kg conversion
E	1.000	ug to mg conversion (1 if no conversion)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
1 Formaldehyde	Compound Not Detected.					

0049



Data File: \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K26.d Page 1
Report Date: 15-Jan-2003 12:46

STL Tallahassee

Semivolatile REPORT SW-846 Method 8315

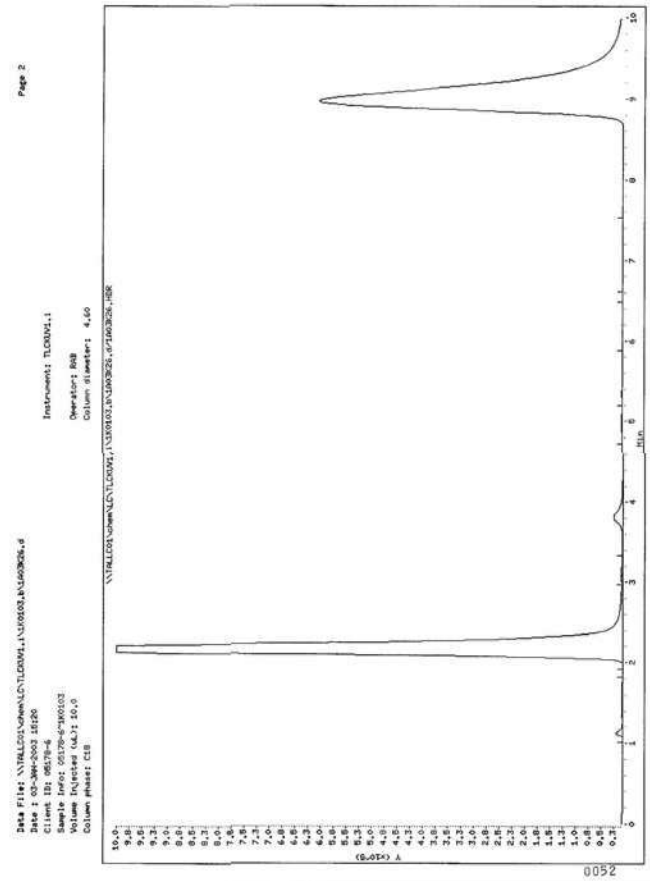
Data file : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K26.d
Lab Smp Id: A1905-11B Client Smp ID: 05178-6
Inj Date : 03-JAN-2003 15:20
Operator : RAB Inst ID: TLCKUV1.i
Smp Info : 05178-6~1K0103
Misc Info : FFFFFF
Comment :
Method : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\j-b8315-uv.m
Meth Date : 06-Jan-2003 08:01 rbrockwe Quant Type: ESTD
Cal Date : 03-JAN-2003 11:46 Cal File: 1A03K6.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: formXacro.sub
Target Version: 4.03
Processing Host: TALLC04

Concentration Formula: Amt * DF * Vt/Ws * (100/(100 - M)) * A * E

Name	Value	Description
DF	1.000	Dilution Factor
Vt	4.000	Volume of final extract
Ws	20.000	Weight of sample extract
M	11.000	% Moisture
A	1000.000	g to kg conversion
E	1.000	ug to mg conversion (1 if no conversion)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
1 Formaldehyde	Compound Not Detected.					

0051



Data File: \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K27.d Page 1
Report Date: 15-Jan-2003 12:46

STL Tallahassee

Semivolatile REPORT SW-846 Method 8315

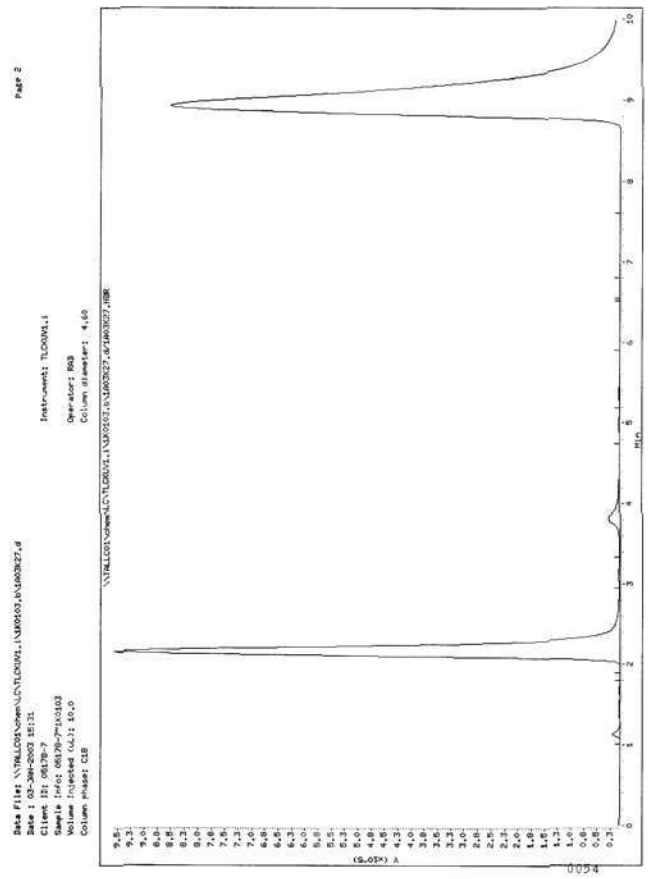
Data file : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K27.d
Lab Smp Id: A1905-12B Client Smp ID: 05178-7
Inj Date : 03-JAN-2003 15:31
Operator : RAB Inst ID: TLCKUV1.i
Smp Info : 05178-7~1K0103
Misc Info : FFFFFF
Comment :
Method : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\j-b8315-uv.m
Meth Date : 06-Jan-2003 08:01 rbrockwe Quant Type: ESTD
Cal Date : 03-JAN-2003 11:46 Cal File: 1A03K6.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: formXacro.sub
Target Version: 4.03
Processing Host: TALLC04

Concentration Formula: Amt * DF * Vt/Ws * (100/(100 - M)) * A * E

Name	Value	Description
DF	1.000	Dilution Factor
Vt	4.000	Volume of final extract
Ws	20.000	Weight of sample extract
M	7.000	% Moisture
A	1000.000	g to kg conversion
E	1.000	ug to mg conversion (1 if no conversion)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
1 Formaldehyde	Compound Not Detected.					

0053



0054

Data File: \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K28.d Page 1
Report Date: 15-Jan-2003 12:46

STL Tallahassee

Semivolatile REPORT SW-846 Method 8315

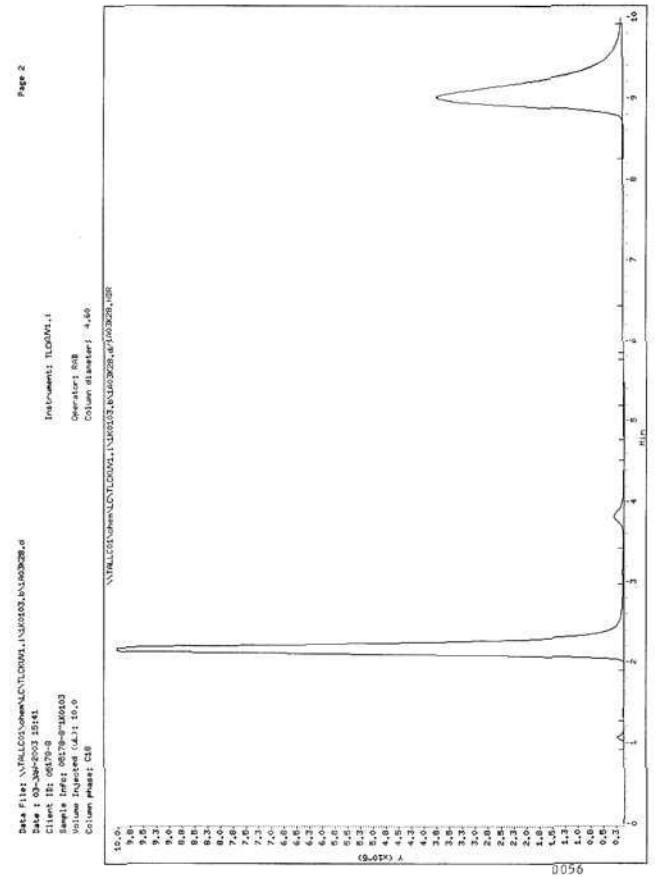
Data file : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K28.d
Lab Smp Id: A1905-13B Client Smp ID: 05178-8
Inj Date : 03-JAN-2003 15:41
Operator : RAB Inst ID: TLCKUV1.i
Smp Info : 05178-8*1K0103
Misc Info : FFFFFF
Comment :
Method : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\j-b8315-uv.m
Meth Date : 06-Jan-2003 08:01 rbrockwe Quant Type: ESTD
Cal Date : 03-JAN-2003 11:46 Cal File: 1A03K6.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: formXacro.sub
Target Version: 4.03
Processing Host: TALLC04

Concentration Formula: Amt * DF * Vt/Ws * (100/(100 - M)) * A * E

Name	Value	Description
DF	1.000	Dilution Factor
Vt	4.000	Volume of final extract
Ws	20.000	Weight of sample extract
M	9.000	% Moisture
A	1000.000	g to kg conversion
E	1.000	ug to mg conversion (1 if no conversion)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
1 Formaldehyde	Compound Not Detected.					

0055



0056

QUALITY CONTROL DATA

0057

STL Tallahassee

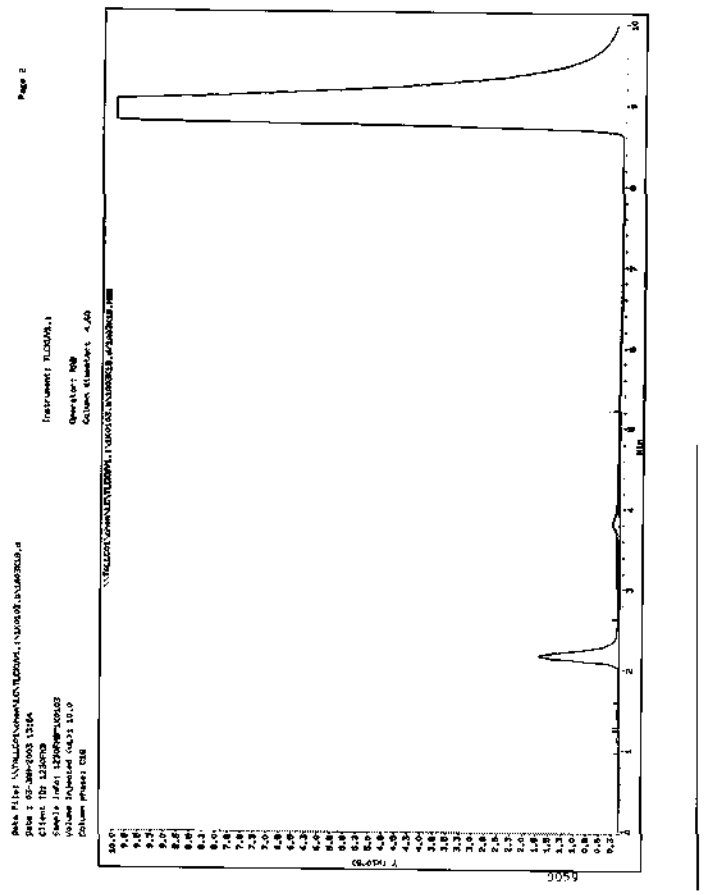
Semivolatile REPORT SW-846 Method 8315

Data File : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K18.d
Lab Smp Id: METHOD BLANK Client Smp ID: 1230FMB
Inj Date : 03-JAN-2003 13:54
Operator : RAB Inst ID: TLCKUV1.i
Smp Info : 1230FMB^1K0103
Misc Info : FFFFFF
Comment :
Method : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\j-b8315-uv.m
Meth Date : 06-Jan-2003 08:01 rbrockwe Quant Type: ESTD
Cal Date : 03-JAN-2003 11:46 Cal File: 1A03K6.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: formXacro.sub
Target Version: 4.03
Processing Host: TALLC04

Concentration Formula: Amt * DF * Vt/Ws * (100/(100 - M)) * A * B

Name	Value	Description
DF	1.000	Dilution Factor
Vt	4.000	Volume of final extract
Ws	20.000	Weight of sample extract
M	0.000	% Moisture
A	1000.000	g to kg conversion
B	1.000	ug to mg conversion (1 if no conversion)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
1 Formaldehyde	Compound Not Detected.					



STL Tallahassee

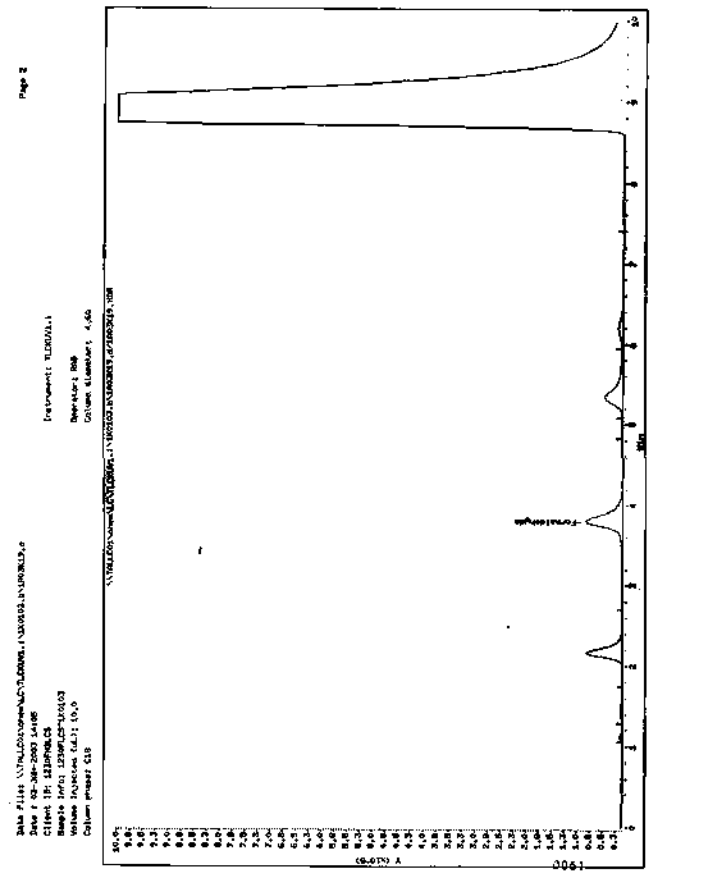
Semivolatile REPORT SW-846 Method 8315

Data File : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K19.d
Lab Smp Id: LAB SPIKE Client Smp ID: 1230FMBLCS
Inj Date : 03-JAN-2003 14:05
Operator : RAB Inst ID: TLCKUV1.i
Smp Info : 1230FMBLCS^1K0103
Misc Info : FFFFFF
Comment :
Method : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\j-b8315-uv.m
Meth Date : 06-Jan-2003 08:01 rbrockwe Quant Type: ESTD
Cal Date : 03-JAN-2003 11:46 Cal File: 1A03K6.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: formXacro.sub
Target Version: 4.03
Processing Host: TALLC04

Concentration Formula: Amt * DF * Vt/Ws * (100/(100 - M)) * A * B

Name	Value	Description
DF	1.000	Dilution Factor
Vt	4.000	Volume of final extract
Ws	20.000	Weight of sample extract
M	0.000	% Moisture
A	1000.000	g to kg conversion
B	1.000	ug to mg conversion (1 if no conversion)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
1 Formaldehyde	3.800	3.800	0.000	74150	3.46073	692



STL Tallahassee

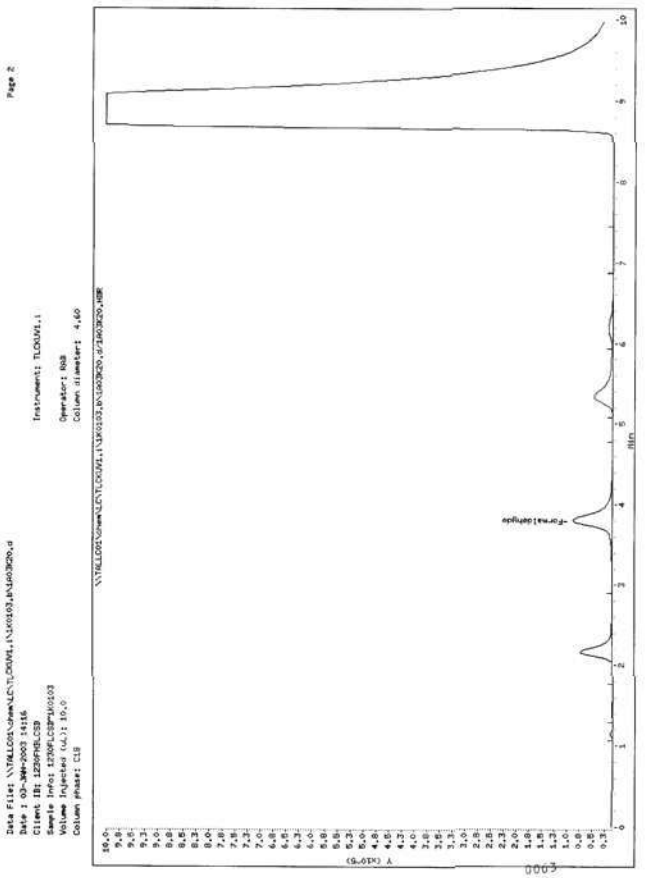
Semivolatile REPORT SW-846 Method 8315

Data file : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\1A03K20.d
Lab Smp Id: LAB SPIKE DUP Client Smp ID: 1230FMSLCSD
Inj Date : 03-JAN-2003 14:16
Operator : RAB Inst ID: TLCKUV1.i
Smp Info : 1230FLCSD^1K0103
Misc Info : FFFFFF
Comment :
Method : \\TALLC01\chem\LC\TLCKUV1.i\1K0103.b\j-b8315-uv.m
Meth Date : 06-Jan-2003 08:01 rbrockwe Quant Type: ESTD
Cal Date : 03-JAN-2003 11:46 Cal File: 1A03K6.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: formXacro.sub
Target Version: 4.03
Processing Host: TALLC04

Concentration Formula: Amt * DF * Vt/Ws * (100/(100 - M)) * A * E

Name	Value	Description
DF	1.000	Dilution Factor
Vt	4.000	Volume of final extract
Ws	20.000	Weight of sample extract
M	0.000	% Moisture
A	1000.000	g to kg conversion
E	1.000	ug to mg conversion (1 if no conversion)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
1 Formaldehyde	3.800	3.800	0.000	76753	3.73813	750



MITKEM CORPORATION

"Environmental Testing For The New Millennium"

February 13, 2003

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Attn: Ms. Melody Bova

RE: Client Project: Former Howe Furniture Site, HOW0016.RA
Mitkem Lab Project # B0096

Dear Ms. Bova:

Enclosed please find the data report of the required analyses for the samples associated with the above referenced project.

This deliverable includes a hard copy of the data summary portion of the report, and a CD containing a .pdf file of the full data package. The hard copy of the full data package report has been forwarded to Mr. Glenn Esler of Environmental Standards, Inc.

If you have any questions regarding this report, please call me.

We appreciate your business.

Sincerely,

Agnes R. Ng
CLP Project Manager

CC: Glenn Esler, Environmental Standards, Inc.

175 Metro Center Boulevard • Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499 • www.mitkem.com

MITKEM CORPORATION

* Data Summary Package *

Analytical Data Package for HRP Associates, Inc.

Client Project: Former Howe Furniture Site

Mitkem Project ID: B0096

February 13, 2003

SDG Narrative

Mitkem Corporation submits the enclosed data package in response to HRP Associates' Former Howe Furniture Site project. Under this deliverable, analysis results are presented for seven soil samples that were received at Mitkem on November 8 and December 23, 2002. The samples were re-logged for SPLP analyses per the client on January 17 and February 4, 2003. Analyses were performed per specifications in the project's contract and the chain of custody forms. Sample identifications were shortened where necessary due to limitations in the software used to generate CLP-type report forms. A table of sample identifications showing full client ID, shortened client ID and laboratory ID follows this narrative.

The analyses were performed according to EPA SW-846 and State of Connecticut protocols and reported in a CLP-format deliverable. Per method requirements, QC limits are updated on a regular basis. Therefore, QC limits may have changed from those provided when the project QAPP was written. The current valid QC limits are listed on the applicable data reporting forms.

The following observation and/or deviations are observed for the following analyses:

1. Overall Observation:

The enclosed report includes the originals of all data with the exception of logbook pages and certain initial calibrations. Photocopies of logbook pages are included, with the originals maintained on file at the laboratory. The originals of initial calibrations that are shared among several cases are maintained on file at the laboratory, with photocopies included in the data package.

2. SPLP Metals Analysis:

Lab control sample: spike recoveries were within the QC limits.

Sample analysis: no unusual observation was made for the analysis.

The pages in this report have been numbered consecutively, starting from this narrative and ending with a page saying only "Last Page of Data Report".

000 1

I certify that this data package is in compliance, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Agnes Ng
CLP Project Manager
02/13/03

000 2

*Mitkem and Client Sample ID Summary Report**

Mitkem Workorder: B0096

Client Name: HRP Associates

Mitkem Sample ID	*Reported Client Sample ID*	*Full Client Sample ID*
B0096-01A	12TB1068	04NOV02AOC1+12-TB-10(6-8)
B0096-02A	12TB1102	04NOV02AOC1+12-TB-11(0-2)
B0096-03A	12TB1524	04NOV02AOC1+12-TB-15(2-4)
B0096-04A	SSTB2413	05NOV02AOC13-SS-TB-24(1-3)
B0096-05A	SSTB3124	05NOV02-AOC13-SS-TB-31(2-4)
B0096-06A	SSTB3435	05NOV02-AOC13-SS-TB-34(3-5)
B0096-07A	SSTB6767	19DEC2-AOC5-SS-TB-62(6-7)

* *If client sample ID has not been truncated, the full client sample ID is listed in the column labeled "Reported Client Sample ID"*

000 3

Mitkem Corporation

WorkOrder: B0096

07/Feb/03 10:24

Report Level: LEVEL 4
EDD: XL
HC Due: 02/25/03
Fax Due:

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T
Location: HOW0016.RA
Comments: RELOG OF PROJECT A1627

Case:
SDG:
PO:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Iold	MS	SEL Storage
B0096-01A	12TB1068	11/04/02 9:35	01/17/03	Soil	SW6010B_W	SPLP			✓ G2
B0096-02A	12TB1102	11/04/02 9:45	01/17/03	Soil	SW6010B_W	SPLP			✓ G2
B0096-03A	12TB1524	11/04/02 10:50	01/17/03	Soil	SW6010B_W	SPLP			✓ G2
B0096-04A	SSTB2413	11/04/02 9:50	01/17/03	Soil	SW6010B_W	SPLP			✓ G2
B0096-05A	SSTB3124	11/04/02 12:10	01/17/03	Soil	SW6010B_W	SPLP			✓ G2
B0096-06A	SSTB3435	11/04/02 13:20	01/17/03	Soil	SW6010B_W	SPLP			✓ G2
B0096-07A	SSTB6267	12/19/02 9:50	02/04/03	Soil	SW6010B_W	SPLP plus CaNiZn			✓ A1
					SW7470A	SPLP plus CaNiZn			A1

Page 1 of 1

Client Rep: Agnes R Ng

4

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
12TB1068

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096
Matrix (soil/water): WATER Lab Sample ID: B0096-01A
Level (low/med): MED Date Received: 01/17/03
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	68.7	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.6	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	3.3	B		P
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

5

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
12TB1102

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096
Matrix (soil/water): WATER Lab Sample ID: B0096-02A
Level (low/med): MED Date Received: 01/17/03
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	62.9	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.4	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	4.2	B		P
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

6

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
12TB1524

Lab Name: MITKEM_CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096
Matrix (soil/water): WATER Lab Sample ID: B0096-03A
Level (low/med): MED Date Received: 01/17/03
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.4	B		P
7440-39-3	Barium	119	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.5	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	4.0	B		P
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

7

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
SSTB2413

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096
Matrix (soil/water): WATER Lab Sample ID: B0096-04A
Level (low/med): MED Date Received: 01/17/03
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	1280			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	14.4	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	24.8	B		P
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
SSTB3124

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096
Matrix (soil/water): WATER Lab Sample ID: B0096-05A
Level (low/med): MED Date Received: 01/17/03
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	37.8	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.1	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
SSTB3435

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096
Matrix (soil/water): WATER Lab Sample ID: B0096-06A
Level (low/med): MED Date Received: 01/17/03
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.4	B		P
7440-39-3	Barium	150	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.2	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	8.0	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	8.0	B		P
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
SSTB6267

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096
Matrix (soil/water): WATER Lab Sample ID: B0096-07A
Level (low/med): MED Date Received: 02/04/03
% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	7.9	B		P
7440-39-3	Barium	193	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.8	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	7.7	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	1.0	U		CV
7440-02-0	Nickel	1.7	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	45.7	B		P
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:
Color After: Clarity After: Artifacts:
Comments:

FORM I - IN SW846

U.S. EPA - CLP

7
LABORATORY CONTROL SAMPLE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

Solid LCS Source:

Aqueous LCS Source: HIGH_PURITY

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits	%R
Aluminum								
Antimony	455.0	476.8	104.8					
Arsenic	455.0	469.4	103.2					
Barium	9100.0	9063.5	99.6					
Beryllium	227.0	226.8	99.9					
Cadmium	227.0	237.6	104.7					
Calcium								
Chromium	910.0	906.0	99.6					
Cobalt								
Copper								
Iron								
Lead	455.0	467.3	102.7					
Magnesium								
Manganese								
Mercury	4.6	4.6	100.0					
Nickel	2270.0	2328.6	102.6					
Potassium								
Selenium								
Silver								
Sodium								
Thallium	455.0	486.0	106.8					
Vanadium	2270.0	2216.0	97.6					
Zinc								
Cyanide								

FORM VII - IN SW846

000 11A

U.S. EPA - CLP

7
LABORATORY CONTROL SAMPLE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

Solid LCS Source:

Aqueous LCS Source: HIGH_PURITY

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits	%R
Aluminum								
Antimony	455.0	439.4	96.6					
Arsenic	455.0	494.6	108.7					
Barium	9100.0	9323.8	102.5					
Beryllium	227.0	223.4	98.4					
Cadmium	227.0	236.9	104.4					
Calcium								
Chromium	910.0	896.9	98.6					
Cobalt								
Copper								
Iron								
Lead	455.0	482.2	106.0					
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium	455.0	479.4	105.4					
Vanadium	2270.0	2249.9	99.1					
Zinc								
Cyanide								

FORM VII - IN SW846

000 11B

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony	4.7	B	4.4	B	6.2	B	3.9	B	3.000	U	P
Arsenic	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Barium	3.0	U	3.0	U	3.0	U	3.0	U	24.142	B	P
Beryllium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Cadmium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Calcium											
Chromium	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Cobalt											
Copper											
Iron											
Lead	1.0	U	1.0	U	1.0	U	1.0	U	1.974	B	P
Magnesium											
Manganese											
Mercury	0.1	U	0.1	U					1.000	U	CV
Nickel	0.5	U	0.5	U	0.5	U			0.500	U	P
Potassium											
Selenium											
Silver											
Sodium											
Thallium	4.0	U	4.0	U	4.0	U	4.0	U	4.000	U	P
Vanadium	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Zinc											
Cyanide											

FORM III - IN SW846

000 12

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony			3.9	B	3.0	U	3.1	B	3.000	U	P
Arsenic			3.0	U	3.0	U	3.0	U	3.000	U	P
Barium			3.0	U	3.0	U	3.0	U	11.713	B	P
Beryllium			2.0	U	2.0	U	2.0	U	2.000	U	P
Cadmium			2.0	U	2.0	U	2.0	U	2.000	U	P
Calcium											
Chromium			3.0	U	3.0	U	3.0	U	3.000	U	P
Cobalt											
Copper											
Iron											
Lead			1.0	U	1.0	U	1.0	U	1.000	U	P
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium			4.0	U	4.0	U	4.0	U	4.000	U	P
Vanadium			3.0	U	3.0	U	3.0	U	3.000	U	P
Zinc											
Cyanide											

FORM III - IN SW846

000 13

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM_CORPORATION_____ Contract:

Lab Code: MITKEM Case No.: SAS No.: _____ SDG No.: B0096_

Preparation Blank Matrix (soil/water): ___

Preparation Blank Concentration Units (ug/L or mg/kg): ___

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum											
Antimony			3.0	U	3.4	B					P
Arsenic			3.0	U	3.0	U					P
Barium			3.0	U	3.0	U					P
Beryllium			2.0	U	2.0	U					P
Cadmium			2.0	U	2.0	U					P
Calcium											
Chromium			3.0	U	3.0	U					P
Cobalt											
Copper											
Iron											
Lead			1.0	U	1.0	U					P
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium			4.0	U	4.0	U					P
Vanadium			3.0	U	3.0	U					P
Zinc											
Cyanide											

FORM III - IN SW846

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM CORPORATION_____ Contract: ___

Lab Code: MITKEM Case No.: SAS No.: _____ SDG No.: B0096

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg): ___

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum											
Antimony	3.2	B	3.1	B	3.7	B					P
Arsenic	3.0	U	3.0	U	3.0	U					P
Barium	3.0	U	3.0	U	3.0	U					P
Beryllium	2.0	U	2.0	U	2.0	U					P
Cadmium	2.0	U	2.0	U	2.0	U					P
Calcium											
Chromium	3.0	U	3.0	U	3.0	U					P
Cobalt											
Copper											
Iron											
Lead	1.0	U	2.0	U	1.0	U					P
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium	4.0	U	4.0	U	4.0	U					P
Vanadium	3.0	U	3.0	U	3.0	U					P
Zinc											
Cyanide											

FORM III - IN SW846

Analytical Data Package for HRP Associates, Inc.

Client Project: Former Howe Furniture Site

Mitkem Project ID: B0096

February 13, 2003

SDG Narrative

Mitkem Corporation submits the enclosed data package in response to HRP Associates' Former Howe Furniture Site project. Under this deliverable, analysis results are presented for seven soil samples that were received at Mitkem on November 8 and December 23, 2002. The samples were re-logged for SPLP analyses per the client on January 17 and February 4, 2003. Analyses were performed per specifications in the project's contract and the chain of custody forms. Sample identifications were shortened where necessary due to limitations in the software used to generate CLP-type report forms. A table of sample identifications showing full client ID, shortened client ID and laboratory ID follows this narrative.

The analyses were performed according to EPA SW-846 and State of Connecticut protocols and reported in a CLP-format deliverable. Per method requirements, QC limits are updated on a regular basis. Therefore, QC limits may have changed from those provided when the project QAPP was written. The current valid QC limits are listed on the applicable data reporting forms.

The following observation and/or deviations are observed for the following analyses:

1. Overall Observation:

The enclosed report includes the originals of all data with the exception of logbook pages and certain initial calibrations. Photocopies of logbook pages are included, with the originals maintained on file at the laboratory. The originals of initial calibrations that are shared among several cases are maintained on file at the laboratory, with photocopies included in the data package.

2. SPLP Metals Analysis:

Lab control sample: spike recoveries were within the QC limits.

Sample analysis: no unusual observation was made for the analysis.

The pages in this report have been numbered consecutively, starting from this narrative and ending with a page saying only "Last Page of Data Report".

I certify that this data package is in compliance, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Agnes Ng
CLP Project Manager
02/13/03

*Mitkem and Client Sample ID Summary Report**

Mitkem Workorder: B0096

Client Name: IRP Associates

Mitkem Sample ID	*Reported Client Sample ID*	*Full Client Sample ID*
B0096-01A	12TB1068	04NOV02AOC1+12-TB-10(6-8)
B0096-02A	12TB1102	04NOV02AOC1+12-TB-11(0-2)
B0096-03A	12TB1524	04NOV02AOC1+12-TB-15(2-4)
B0096-04A	SSTB2413	05NOV02AOC13-SS-TB-24(1-3)
B0096-05A	SSTB3124	05NOV02-AOC13-SS-TB-31(2-4)
B0096-06A	SSTB3435	05NOV02-AOC13-SS-TB-34(3-5)
B0096-07A	SSTB6267	19DEC2-AOC5-SS-TB-62(6-7)

** If client sample ID has not been truncated, the full client sample ID is listed in the column labeled "Reported Client Sample ID"*

Friday, February 07, 2003 *Page 1 of 1*

Mitkem Corporation ***07/Feb/03 10:24*** **WorkOrder: B0096**

Client ID: IRP
Project: Former Howe Furniture Facility HOW-0016.RA-T
Location: HOW0016.RA
Comments: RELOG OF PROJECT A1627

Case:
SDG:
PO:

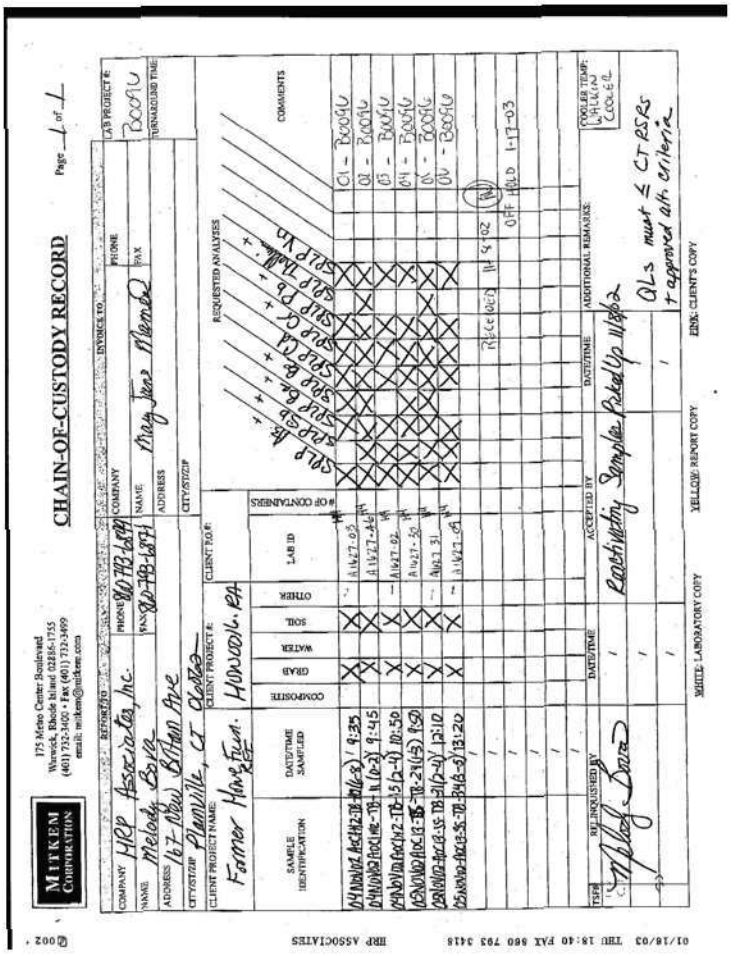
Report Level: LEVEL 4
EDD: XL
HC Date: 02/25/03
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Inhd	Ms	SEL	Storage
B0096-01A	12TB1068	11/04/02 9:35	01/17/03	Soil	SW6010B_W	SPLP			✓	G2
B0096-02A	12TB1102	11/04/02 9:45	01/17/03	Soil	SW6010B_W	SPLP			✓	G2
B0096-03A	12TB1524	11/04/02 10:50	01/17/03	Soil	SW6010B_W	SPLP			✓	G2
B0096-04A	SSTB2413	11/04/02 9:50	01/17/03	Soil	SW6010B_W	SPLP			✓	G2
B0096-05A	SSTB3124	11/04/02 12:10	01/17/03	Soil	SW6010B_W	SPLP			✓	G2
B0096-06A	SSTB3435	11/04/02 13:20	01/17/03	Soil	SW6010B_W	SPLP			✓	G2
B0096-07A	SSTB6267	12/19/02 9:50	02/04/03	Soil	SW6010B_W	SPLP plus CuNiZn			✓	A1
					SW7470A	SPLP plus CuNiZn				A1

Page 1 of 1

Client Rep: Agnes R Ng

Sample Transmittal Documentation



CHAIN-OF-CUSTODY RECORD

Page 1 of 1

MITKEM CORPORATION

175 Metro Center Boulevard, Warwick, Rhode Island 02886-1755 (401) 732-3400 • Fax (401) 732-3499 email: mitkem@mitkem.com

REPORTED TO: COMPANY: HRP Associates, Inc. NAME: Melody Bova ADDRESS: 167 New Britain Ave CITY/ST/ZIP: Plainville, CT 06062 CLIENT PROJECT NAME: Former Hardware

PHONE: 860-793-6899 FAX: 860-793-6871 CLIENT PO#: HOW0016.RA

INVOICE TO: COMPANY: NAME: May Jane Member ADDRESS: CITY/ST/ZIP:

LAB PROJECT #: B0094U TURNAROUND TIME:

REQUESTED ANALYSES: SPLP Pb + SPLP As + SPLP Cd + SPLP Cr + SPLP Hg + SPLP Ni + SPLP Zn + SPLP Va

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	COMMENTS
01 Melody Bova 19DEC02-MW5-SS-TB-6(6-7)	12/19/02 9:35		X		X		A14427-05	1	01 - B0094U
02 HOW0016.RA 19DEC02-MW6-SS-TB-1(0-2)	12/19/02 9:45		X		X		A14427-06	1	02 - B0095U
03 HOW0016.RA 19DEC02-TB-1512-01	12/19/02 10:50		X		X		A14427-02	1	03 - B0096U
04 HOW0016.RA 19DEC02-MW3-SS-TB-24(45)	12/19/02 11:50		X		X		A14427-03	1	04 - B0097U
05 HOW0016.RA 19DEC02-TB-2112-01	12/19/02 13:10		X		X		A14427-01	1	05 - B0098U
06 HOW0016.RA 19DEC02-MW5-SS-TB-3(4-5)	12/19/02 13:20		X		X		A14427-04	1	06 - B0099U

RELINQUISHED BY: Melody Bova DATE/TIME: 12/19/02 14:40

ACCEPTED BY: Courtesy Sample Pick Up 11/19/02 DATE/TIME: / / / /

ADDITIONAL REMARKS: RECEIVED 12/19/02 14:40 OFF HOLD 1-17-03 QLs must ≤ CT RSRs + approval with criteria

COOLER TEMP: UNKNOWN COOLED

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

01/18/03 THU 18:40 FAX 860 793 3418 HRP ASSOCIATES 002

01/18/03 THU 18:40 FAX 860 793 3418 HRP ASSOCIATES 001

HRP Associates, Inc.
Environmental/Civil Engineering & Hydrogeology

167 New Britain Avenue, Plainville, CT 06062
(860) 793-6899 • Fax (860) 793-6871

Yes / Fax

FAX COVER LETTER

TO: Name
Company Mitkem
Fax Number (401) 732-3499

FROM: Melody Bova

Job Number: HOW0016.RA
Task Number: 06

No. of Pages 2 (including cover letter)

Date Sent: 1/16/03 Time Sent: 6:40

Please Reactivate the indicated samples for SPLP analyses.

Thanks,
Melody Bova

Visit our website
www.hrpassociates.com

If you have not received the total number of pages transmitted, please contact HRP at (860) 793-6899

Copy: Yes X No ☐

01/18/03 THU 18:40 FAX 860 793 3418 HRP ASSOCIATES 001

HRP Associates, Inc.
Environmental/Civil Engineering & Hydrogeology

167 New Britain Avenue, Plainville, CT 06062
(860) 793-6899 • Fax (860) 793-6871

FAX COVER LETTER

TO: Name
Company Mitkem
Fax Number (401) 732-3499

FROM: Melody Bova

Job Number: HOW0016.RA
Task Number: 06

No. of Pages 2 (including cover letter)

Date Sent: 2/3/2003 Time Sent: 3:35

Please reactivate the following samples for SPLP (chain follows)

Sample ID	SPLP Analysis
19DEC02-MW5-SS-TB-6(6-7)	Sb, As, Ba, Cd, Be, Cr, Pb, Hg, Ni, Tl, Va

Call with any questions.

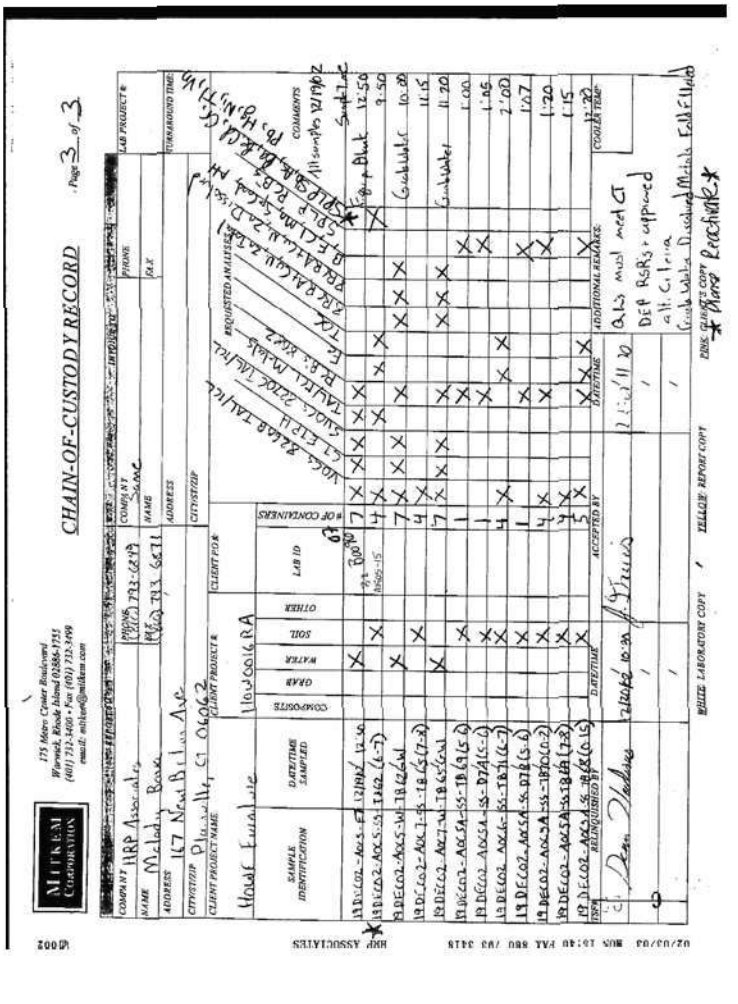
Thanks
Melody Bova

Visit our website
www.hrpassociates.com

If you have not received the total number of pages transmitted, please contact HRP at (860) 793-6899

Copy: Yes X No ☐

8



CHAIN-OF-CUSTODY RECORD

Page 3 of 3

MITKEM CORPORATION

175 Metro Center Boulevard, Warwick, Rhode Island 02886-1755 (401) 732-3400 • Fax (401) 732-3499 email: mitkem@mitkem.com

COMPANY: HRP Associates NAME: Melody Bova ADDRESS: 167 New Britain Ave CITY/ST/ZIP: Plainville, CT 06062 CLIENT PROJECT NAME: Hardware Fair

PHONE: (860) 793-6899 FAX: (860) 793-6871 CLIENT PO#: HOW0016.RA

LAB PROJECT #: TURNAROUND TIME:

REQUESTED ANALYSES: SPLP Sb, As, Ba, Cd, Be, Cr, Pb, Hg, Ni, Tl, Va

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	COMMENTS
19DEC02-MW5-SS-TB-6(6-7)	12/19/02 12:50		X		X		B0094U	1	Grab + Blank 12:50
19DEC02-MW6-SS-TB-1(0-2)	12/19/02 9:50		X		X		B0095U	1	Grab 9:50
19DEC02-MW3-SS-TB-24(45)	12/19/02 10:50		X		X		B0096U	1	Grab 10:50
19DEC02-MW3-SS-TB-3(4-5)	12/19/02 11:45		X		X		B0097U	1	Grab 11:45
19DEC02-MW4-SS-TB-1(0-2)	12/19/02 11:20		X		X		B0098U	1	Grab 11:20
19DEC02-MW4-SS-TB-3(4-5)	12/19/02 1:00		X		X		B0099U	1	Grab 1:00
19DEC02-MW4A-SS-TB-1(0-2)	12/19/02 1:05		X		X		B0100U	1	Grab 1:05
19DEC02-MW4A-SS-TB-3(4-5)	12/19/02 1:07		X		X		B0101U	1	Grab 1:07
19DEC02-MW5A-SS-TB-1(0-2)	12/19/02 1:20		X		X		B0102U	1	Grab 1:20
19DEC02-MW5A-SS-TB-3(4-5)	12/19/02 1:15		X		X		B0103U	1	Grab 1:15
19DEC02-MW5-SS-TB-6(6-7)	12/19/02 12:20		X		X		B0104U	1	Grab 12:20

RELINQUISHED BY: Melody Bova DATE/TIME: 12/19/02 10:30 ACCEPTED BY: DATE/TIME: 12/19/02 10:30

ADDITIONAL REMARKS: QLs must meet CT RSRs + approved alt. criteria Available Dissolved Metals Field Filtered

COOLER TEMP: UNKNOWN COOLED

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

01/18/03 THU 18:40 FAX 860 793 3418 HRP ASSOCIATES 002

MITKEM CORPORATION

* Metals *

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

SOW No.: ILM04.0

EPA Sample No.	Lab Sample ID
12TB1068	B0096-01A
12TB1102	B0096-02A
12TB1524	B0096-03A
SSTB2413	B0096-04A
SSTB3124	B0096-05A
SSTB3435	B0096-06A
SSTB6267	B0096-07A

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES

If yes - were raw data generated before application of background corrections ? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name: Richard A. Conway

Date: 02/17/03 Title: Chemist

COVER PAGE - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
12TB1068

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

Matrix (soil/water): WATER Lab Sample ID: B0096-01A

Level (low/med): MED Date Received: 01/17/03

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	68.7	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.6	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	3.3	B		P
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
12TB1102

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

Matrix (soil/water): WATER Lab Sample ID: B0096-02A

Level (low/med): MED Date Received: 01/17/03

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	62.9	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.4	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	4.2	B		P
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
12TB1524

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

Matrix (soil/water): WATER Lab Sample ID: B0096-03A

Level (low/med): MED Date Received: 01/17/03

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.4	B		P
7440-39-3	Barium	119	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	2.5	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	4.0	B		P
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
SSTB2413

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

Matrix (soil/water): WATER Lab Sample ID: B0096-04A

Level (low/med): MED Date Received: 01/17/03

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	1280			P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	14.4	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	24.8	B		P
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
SSTB3124

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

Matrix (soil/water): WATER Lab Sample ID: B0096-05A

Level (low/med): MED Date Received: 01/17/03

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.0	U		P
7440-39-3	Barium	37.8	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	1.1	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	3.0	U		P
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.
SSTB3435

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

Matrix (soil/water): WATER Lab Sample ID: B0096-06A

Level (low/med): MED Date Received: 01/17/03

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	3.4	B		P
7440-39-3	Barium	150	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	5.2	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	8.0	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury				NR
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	8.0	B		P
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SSTB6267

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: B0096

Matrix (soil/water): WATER Lab Sample ID: B0096-07A

Level (low/med): MED Date Received: 02/04/03

% Solids:

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony	3.0	U		P
7440-38-2	Arsenic	7.9	B		P
7440-39-3	Barium	193	B		P
7440-41-7	Beryllium	2.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium				NR
7440-47-3	Chromium	3.8	B		P
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead	7.7	B		P
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	1.0	U		CV
7440-02-0	Nickel	1.7	B		P
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium	4.0	U		P
7440-62-2	Vanadium	45.7	B		P
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

FORM I - IN SW846

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: B0096

Initial Calibration Source: INORG_VENTURES

Continuing Calibration Source: INORG_VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony	500.0	547.59	109.5	500.0	484.30	96.9	482.60	96.5	P
Arsenic	500.0	523.15	104.6	500.0	511.25	102.2	509.42	101.9	P
Barium	10000.0	10576.46	105.8	10000.0	10495.56	105.0	10536.50	105.4	P
Beryllium	250.0	255.23	102.1	250.0	250.30	100.1	255.87	102.3	P
Cadmium	250.0	256.53	102.6	250.0	254.08	101.6	259.81	103.9	P
Calcium									
Chromium	1000.0	1008.54	100.9	1000.0	1000.52	100.1	1024.63	102.5	P
Cobalt									
Copper									
Iron									
Lead	500.0	514.63	102.9	500.0	506.95	101.4	509.94	102.0	P
Magnesium									
Manganese									
Mercury	5.0	4.77	95.4	5.0	4.85	97.0			CV
Nickel	2500.0	2515.95	100.6	2500.0	2589.06	103.6	2566.26	102.7	P
Potassium									
Selenium									
Silver									
Sodium									
Thallium	500.0	529.24	105.8	500.0	524.63	104.9	531.73	106.3	P
Vanadium	2500.0	2505.62	100.2	2500.0	2493.38	99.7	2516.83	100.7	P
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

Form II (PART 1) - IN SW846

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: B0096

Initial Calibration Source:

Continuing Calibration Source: INORG_VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony				500.0	462.21	92.4	458.75	91.8	P
Arsenic				500.0	488.18	97.6	486.44	97.3	P
Barium				10000.0	10125.96	101.3	10087.34	100.9	P
Beryllium				250.0	243.29	97.3	243.15	97.3	P
Cadmium				250.0	246.23	98.5	247.38	99.0	P
Calcium									
Chromium				1000.0	967.91	96.8	972.75	97.3	P
Cobalt									
Copper									
Iron									
Lead				500.0	489.29	97.9	487.13	97.4	P
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium				500.0	511.15	102.2	508.64	101.7	P
Vanadium				2500.0	2413.41	96.5	2412.36	96.5	P
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

Form II (PART 1) - IN SW846

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: _____ SAS No.: _____ SDG No.: B0096

Initial Calibration Source:

Continuing Calibration Source: INORG_VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony				500.0	460.18	92.0	462.46	92.5	P
Arsenic				500.0	487.79	97.6	490.05	98.0	P
Barium				10000.0	10092.84	100.9	10079.58	100.8	P
Beryllium				250.0	243.08	97.2	241.59	96.6	P
Cadmium				250.0	248.71	99.5	250.24	100.1	P
Calcium									
Chromium				1000.0	976.83	97.7	983.62	98.4	P
Cobalt									
Copper									
Iron									
Lead				500.0	486.97	97.4	491.75	98.4	P
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium				500.0	509.32	101.9	510.61	102.1	P
Vanadium				2500.0	2413.55	96.5	2391.89	95.7	P
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

Form II (PART 1) - IN SW846

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

Initial Calibration Source:

Continuing Calibration Source: INORG_VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony				500.0	459.39	91.9	455.18	91.0	P
Arsenic				500.0	487.07	97.4	486.03	97.2	P
Barium				10000.0	10183.95	101.8	9958.94	99.6	P
Beryllium				250.0	245.51	98.2	241.83	96.7	P
Cadmium				250.0	247.91	99.2	247.54	99.0	P
Calcium									
Chromium				1000.0	974.18	97.4	974.12	97.4	P
Cobalt									
Copper									
Iron									
Lead				500.0	488.91	97.8	485.94	97.2	P
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium				500.0	508.81	101.8	507.94	101.6	P
Vanadium				2500.0	2437.15	97.5	2386.56	95.5	P
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

Initial Calibration Source: INORG_VENTURES

Continuing Calibration Source: INORG_VENTURES

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Aluminum									
Antimony	500.0	470.65	94.1	500.0	476.78	95.4	472.70	94.5	P
Arsenic	500.0	516.39	103.3	500.0	519.42	103.9	514.29	102.9	P
Barium	10000.0	10524.98	105.2	10000.0	10586.06	105.9	10574.13	105.7	P
Beryllium	250.0	244.74	97.9	250.0	244.09	97.6	243.95	97.6	P
Cadmium	250.0	249.60	99.8	250.0	249.26	99.7	248.80	99.5	P
Calcium									
Chromium	1000.0	979.32	97.9	1000.0	980.58	98.1	976.59	97.7	P
Cobalt									
Copper									
Iron									
Lead	500.0	505.47	101.1	500.0	504.16	100.8	502.27	100.5	P
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium	500.0	511.50	102.3	500.0	504.82	101.0	503.25	100.6	P
Vanadium	2500.0	2484.96	99.4	2500.0	2490.59	99.6	2491.28	99.7	P
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony	4.7	B	4.4	B	6.2	B	3.9	B	3.000	U	P
Arsenic	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Barium	3.0	U	3.0	U	3.0	U	3.0	U	24.142	B	P
Beryllium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Cadmium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Calcium											
Chromium	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Cobalt											
Copper											
Iron											
Lead	1.0	U	1.0	U	1.0	U	1.0	U	1.974	B	P
Magnesium											
Manganese											
Mercury	0.1	U	0.1	U					1.000	U	CV
Nickel	0.5	U	0.5	U	0.5	U			0.500	U	P
Potassium											
Selenium											
Silver											
Sodium											
Thallium	4.0	U	4.0	U	4.0	U	4.0	U	4.000	U	P
Vanadium	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Zinc											
Cyanide											

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony			3.9	B	3.0	U	3.1	B	3.000	U	P
Arsenic			3.0	U	3.0	U	3.0	U	3.000	U	P
Barium			3.0	U	3.0	U	3.0	U	11.713	B	P
Beryllium			2.0	U	2.0	U	2.0	U	2.000	U	P
Cadmium			2.0	U	2.0	U	2.0	U	2.000	U	P
Calcium											
Chromium			3.0	U	3.0	U	3.0	U	3.000	U	P
Cobalt											
Copper											
Iron											
Lead			1.0	U	1.0	U	1.0	U	1.000	U	P
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium			4.0	U	4.0	U	4.0	U	4.000	U	P
Vanadium			3.0	U	3.0	U	3.0	U	3.000	U	P
Zinc											
Cyanide											

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony			3.0	U	3.4	B					P
Arsenic			3.0	U	3.0	U					P
Barium			3.0	U	3.0	U					P
Beryllium			2.0	U	2.0	U					P
Cadmium			2.0	U	2.0	U					P
Calcium											
Chromium			3.0	U	3.0	U					P
Cobalt											
Copper											
Iron											
Lead			1.0	U	1.0	U					P
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium			4.0	U	4.0	U					P
Vanadium			3.0	U	3.0	U					P
Zinc											
Cyanide											

FORM III - IN SW846

000 26

U.S. EPA - CLP

3
BLANKS

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L.) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony	3.2	B	3.1	B	3.7	B					P
Arsenic	3.0	U	3.0	U	3.0	U					P
Barium	3.0	U	3.0	U	3.0	U					P
Beryllium	2.0	U	2.0	U	2.0	U					P
Cadmium	2.0	U	2.0	U	2.0	U					P
Calcium											
Chromium	3.0	U	3.0	U	3.0	U					P
Cobalt											
Copper											
Iron											
Lead	1.0	U	1.0	U	1.0	U					P
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium	4.0	U	4.0	U	4.0	U					P
Vanadium	3.0	U	3.0	U	3.0	U					P
Zinc											
Cyanide											

FORM III - IN SW846

000 27

U.S. EPA - CLP

4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

ICP ID Number: OPTIMA_2A ICS Source: HIGH_PURITY

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum								
Antimony		600		637.5	106.2		618.0	103.0
Arsenic		100		108.0	108.0		100.6	100.6
Barium		500		512.2	102.4		504.3	100.9
Beryllium		500		509.5	101.9		509.3	101.9
Cadmium		1000		947.8	94.8		957.9	95.8
Calcium								
Chromium		500		493.7	98.7		497.2	99.4
Cobalt								
Copper								
Iron								
Lead		500		467.6	93.5		463.6	92.7
Magnesium								
Manganese								
Mercury								
Nickel		1000		884.4	88.4		889.6	89.0
Potassium								
Selenium								
Silver								
Sodium								
Thallium		100		88.6	88.6		94.3	94.3
Vanadium		500		501.1	100.2		500.0	100.0
Zinc								

FORM IV - IN SW846

000 28

U.S. EPA - CLP

4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

ICP ID Number: OPTIMA_2A ICS Source: HIGH_PURITY

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum								
Antimony		600		543.5	90.6		539.6	89.9
Arsenic		100		114.9	114.9		109.9	109.9
Barium		500		490.3	98.1		489.7	97.9
Beryllium		500		461.2	92.2		458.8	91.8
Cadmium		1000		877.8	87.8		875.7	87.6
Calcium								
Chromium		500		455.4	91.1		455.3	91.1
Cobalt								
Copper								
Iron								
Lead		500		454.0	90.8		447.0	89.4
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium		100		102.8	102.8		94.8	94.8
Vanadium		500		470.1	94.0		472.1	94.4
Zinc								

FORM IV - IN SW846

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

Solid LCS Source:

Aqueous LCS Source: HIGH_PURITY

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits	%R
Aluminum								
Antimony	455.0	476.8	104.8					
Arsenic	455.0	469.4	103.2					
Barium	9100.0	9063.5	99.6					
Beryllium	227.0	226.8	99.9					
Cadmium	227.0	237.6	104.7					
Calcium								
Chromium	910.0	906.0	99.6					
Cobalt								
Copper								
Iron								
Lead	455.0	467.3	102.7					
Magnesium								
Manganese								
Mercury	4.6	4.6	100.0					
Nickel	2270.0	2328.6	102.6					
Potassium								
Selenium								
Silver								
Sodium								
Thallium	455.0	486.0	106.8					
Vanadium	2270.0	2216.0	97.6					
Zinc								
Cyanide								

FORM VII - IN SW846

000 29

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

Solid LCS Source:

Aqueous LCS Source: HIGH_PURITY

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits	%R
Aluminum								
Antimony	455.0	439.4	96.6					
Arsenic	455.0	494.6	108.7					
Barium	9100.0	9323.8	102.5					
Beryllium	227.0	223.4	98.4					
Cadmium	227.0	236.9	104.4					
Calcium								
Chromium	910.0	896.9	98.6					
Cobalt								
Copper								
Iron								
Lead	455.0	482.2	106.0					
Magnesium								
Manganese								
Mercury								
Nickel								
Potassium								
Selenium								
Silver								
Sodium								
Thallium	455.0	479.4	105.4					
Vanadium	2270.0	2249.9	99.1					
Zinc								
Cyanide								

FORM VII - IN SW846

000 30

U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

ICP ID Number: OPTIMA_2A Date: 02/01/02

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			800		NR
Antimony	206.83		60	3.0	P
Arsenic	188.98		15	3.0	P
Barium	233.53		200	3.0	P
Beryllium	313.11		5	2.0	P
Cadmium	226.50		5	2.0	P
Calcium			20000		NR
Chromium	267.72		40	3.0	P
Cobalt			200		NR
Copper			100		NR
Iron			400		NR
Lead	220.35		40	1.0	P
Magnesium			20000		NR
Manganese			60		NR
Mercury			0.6		NR
Nickel	231.60		160	0.5	P
Potassium			20000		NR
Selenium			140		NR
Silver			40		NR
Sodium			20000		NR
Thallium	190.80		40	4.0	P
Vanadium	292.40		200	3.0	P
Zinc			240		NR
Cyanide			10		NR

Comments:

FORM X - IN SW846

000 31

U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

ICP ID Number: Date: 02/01/02

Flame AA ID Number: COMM_FIMS

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			800		NR
Antimony			60		NR
Arsenic			15		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			20000		NR
Chromium			40		NR
Cobalt			200		NR
Copper			100		NR
Iron			400		NR
Lead			40		NR
Magnesium			20000		NR
Manganese			60		NR
Mercury	253.70		0.6	0.1	CV
Nickel			160		NR
Potassium			20000		NR
Selenium			140		NR
Silver			40		NR
Sodium			20000		NR
Thallium			40		NR
Vanadium			200		NR
Zinc			240		NR
Cyanide			10		NR

Comments:

FORM X - IN SW846

000 32

U.S. EPA - CLP

11A

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

ICP ID Number: OPTIMA_2A Date: 05/08/02

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	CR
Aluminum						
Antimony	206.83	-0.0000034	-0.0000316	0.0003760	0.0000273	0.0093652
Arsenic	188.98	0.0000170	0.0000000	-0.0010476	0.0000000	-0.0966949
Barium	233.53	0.0000000	0.0000291	0.0004462	0.0000000	0.0004554
Beryllium	313.11	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0004203	0.0000000	0.0000000
Calcium						
Chromium	267.72	0.0000000	0.0000000	-0.0001255	0.0000000	0.0000000
Cobalt						
Copper						
Iron						
Lead	220.35	-0.0000778	-0.0000820	0.0001989	0.0000220	-0.0004088
Magnesium						
Manganese						
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium						
Selenium						
Silver						
Sodium						
Thallium	190.80	0.0000416	0.0000350	-0.0002012	-0.0000956	0.0023091
Vanadium	292.40	0.0000000	0.0000000	0.0000830	0.0000000	-0.0206993
Zinc						

Comments:

FORM XI (Part 1) - IN SW846

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

ICP ID Number: OPTIMA_2A Date: 05/08/02

Analyte	Wave-length (nm)	Interelement Correction Factors for: CU	MN	NI	TI	TL
Aluminum						
Antimony	206.83	0.0004552	0.0013682	-0.0001954	-0.0074396	0.0008753
Arsenic	188.98	0.0000000	0.0007572	0.0000000	-0.0042750	0.0000000
Barium	233.53	0.0000000	0.0007443	-0.0011126	0.0000000	0.0000000
Beryllium	313.11	0.0000000	0.0000000	0.0000000	-0.0103101	0.0000000
Cadmium	226.50	0.0000000	0.0000000	-0.0022742	0.0000000	0.0000000
Calcium						
Chromium	267.72	0.0002839	0.0018905	0.0000000	0.0000000	0.0000000
Cobalt						
Copper						
Iron						
Lead	220.35	-0.0002076	0.0016126	-0.0029336	-0.0058528	0.0000000
Magnesium						
Manganese						
Mercury						
Nickel	231.60	0.0000000	0.0008908	0.0000000	0.0028847	0.0010379
Potassium						
Selenium						
Silver						
Sodium						
Thallium	190.80	0.0000000	-0.0427067	0.0000000	-0.0159770	0.0000000
Vanadium	292.40	0.0000000	-0.0006762	0.0000000	0.0056904	0.0000000
Zinc						

Comments:

FORM XI (Part 2) - IN SW846

U.S. EPA - CLP

11B

ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

ICP ID Number: OPTIMA_2A Date: 05/08/02

Analyte	Wave-length (nm)	Interelement Correction Factors for: V
Aluminum		
Antimony	206.83	-0.0189173
Arsenic	188.98	0.0007689
Barium	233.53	-0.0231888
Beryllium	313.11	0.0000000
Cadmium	226.50	0.0000000
Calcium		
Chromium	267.72	-0.0022175
Cobalt		
Copper		
Iron		
Lead	220.35	-0.0003234
Magnesium		
Manganese		
Mercury		
Nickel	231.60	0.0002315
Potassium		
Selenium		
Silver		
Sodium		
Thallium	190.80	0.0256151
Vanadium	292.40	0.0000000
Zinc		

Comments:

FORM XI (Part 2) - IN SW846

U.S. EPA - CLP

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

ICP ID Number: OPTIMA_2A Date: 10/01/02

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Aluminum			NR
Antimony	0.20	25000	P
Arsenic	0.20	25000	P
Barium	0.20	50000	P
Beryllium	0.20	1000	P
Cadmium	0.20	10000	P
Calcium			NR
Chromium	0.20	50000	P
Cobalt			NR
Copper			NR
Iron			NR
Lead	0.20	100000	P
Magnesium			NR
Manganese			NR
Mercury			NR
Nickel	0.20	100000	P
Potassium			NR
Selenium			NR
Silver			NR
Sodium			NR
Thallium	0.20	25000	P
Vanadium	0.20	50000	P
Zinc			NR

Comments:

FORM XII - IN SW846

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
12TB1048	01/24/03		50
12TB1102	01/24/03		50
12TB1524	01/24/03		50
LCSW	01/24/03		50
PBW	01/24/03		50
SSTB2413	01/24/03		50
SSTB3124	01/24/03		50
SSTB3435	01/24/03		50

FORM XIII - IN SW846

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	02/07/03		50
PBW	02/07/03		50
SSTB6267	02/07/03		50

FORM XIII - IN SW846

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	02/07/03		100
PBW	02/07/03		100
SSTB6267	02/07/03		100

FORM XIII - IN SW846

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

Instrument ID Number: OPTIMA_2A Method: P

Start Date: 01/24/03 End Date: 01/24/03

EPA Sample No.	D/F	Time	%S	Analytes
S0	1.00	1554		X X X X X X X
S1	1.00	1557		X X X X X X X
S2	1.00	1600		X X X X X X X
S3	1.00	1604		X X X X X X X
ZZZZZZ	1.00	1608		
ZZZZZZ	1.00	1611		
ZZZZZZ	1.00	1613		
ZZZZZZ	1.00	1617		
ZZZZZZ	1.00	1622		
ICV	1.00	1626		X X X X X X X
ICB	1.00	1630		X X X X X X X
ZZZZZZ	1.00	1634		
ZZZZZZ	1.00	1637		
ZZZZZZ	1.00	1650		
ICSA	1.00	1657		
ICSAB	1.00	1659		X X X X X X X
CCV	1.00	1702		X X X X X X X
CCB	1.00	1706		X X X X X X X
ZZZZZZ	1.00	1720		
ZZZZZZ	1.00	1724		
ZZZZZZ	1.00	1728		
ZZZZZZ	1.00	1731		
ZZZZZZ	1.00	1735		
ZZZZZZ	1.00	1740		
CCV	1.00	1744		X X X X X X X
CCB	1.00	1747		X X X X X X X
ZZZZZZ	1.00	1751		
ZZZZZZ	1.00	1754		
ZZZZZZ	1.00	1756		
ZZZZZZ	1.00	1759		
ZZZZZZ	1.00	1802		
ZZZZZZ	1.00	1804		

FORM XIV - IN SW846

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

Instrument ID Number: OPTIMA_2A Method: P

Start Date: 01/24/03 End Date: 01/24/03

EPA Sample No.	D/F	Time	% R	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1807																									
ZZZZZZ	1.00	1810																									
CCV	1.00	1812			X	X	X	X	X		X				X									X	X		
CCB	1.00	1816			X	X	X	X	X		X				X									X	X		
ZZZZZZ	1.00	1820																									
ZZZZZZ	1.00	1824																									
ZZZZZZ	1.00	1829																									
ZZZZZZ	1.00	1833																									
ZZZZZZ	1.00	1837																									
ZZZZZZ	1.00	1841																									
ZZZZZZ	1.00	1845																									
CCV	1.00	1849			X	X	X	X	X		X				X									X	X		
CCB	1.00	1853			X	X	X	X	X		X				X									X	X		
ZZZZZZ	1.00	1857																									
ZZZZZZ	1.00	1901																									
ZZZZZZ	1.00	1905																									
ZZZZZZ	1.00	1909																									
ZZZZZZ	1.00	1913																									
ZZZZZZ	1.00	1917																									
ZZZZZZ	1.00	1920																									
CCV	1.00	1923			X	X	X	X	X		X				X									X	X		
CCB	1.00	1927			X	X	X	X	X		X				X									X	X		
ZZZZZZ	1.00	1931																									
ZZZZZZ	1.00	1935																									
ZZZZZZ	1.00	1939																									
ZZZZZZ	1.00	1943																									
ZZZZZZ	1.00	1947																									
ZZZZZZ	1.00	1951																									
CCV	1.00	1955			X	X	X	X	X		X				X									X	X		
CCB	1.00	1959			X	X	X	X	X		X				X									X	X		
ZZZZZZ	1.00	2003																									
ZZZZZZ	1.00	2007																									

FORM XIV - IN SW846

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

Instrument ID Number: OPTIMA_2A Method: P

Start Date: 01/24/03 End Date: 01/24/03

EPA Sample No.	D/F	Time	% R	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	2011																									
ZZZZZZ	1.00	2016																									
ZZZZZZ	1.00	2020																									
ZZZZZZ	1.00	2024																									
ZZZZZZ	1.00	2028																									
ZZZZZZ	1.00	2031																									
CCV	1.00	2033			X	X	X	X	X		X				X									X	X		
CCB	1.00	2037			X	X	X	X	X		X				X									X	X		
LCSW	1.00	2041			X	X	X	X	X		X				X									X	X		
PBW	1.00	2046			X	X	X	X	X		X				X									X	X		
12TB1068	1.00	2050			X	X	X	X	X		X				X									X	X		
12TB1102	1.00	2054			X	X	X	X	X		X				X									X	X		
12TB1524	1.00	2058			X	X	X	X	X		X				X									X	X		
SSTB2413	1.00	2102			X	X	X	X	X		X				X									X	X		
SSTB3124	1.00	2106			X	X	X	X	X		X				X									X	X		
SSTB3435	1.00	2110			X	X	X	X	X		X				X									X	X		
ICSA	1.00	2114																									
ICSAB	1.00	2116			X	X	X	X	X		X				X									X	X		
CCV	1.00	2119			X	X	X	X	X		X				X									X	X		
CCB	1.00	2123			X	X	X	X	X		X				X									X	X		

FORM XIV - IN SW846

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

Instrument ID Number: OPTIMA_2A Method: P

Start Date: 02/07/03 End Date: 02/07/03

EPA Sample No.	D/F	Time	% R	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1540			X	X	X	X	X		X				X				X					X	X		
S1	1.00	1544			X	X	X	X	X		X				X				X					X	X		
S2	1.00	1548			X	X	X	X	X		X				X				X					X	X		
S3	1.00	1552			X	X	X	X	X		X				X				X					X	X		
ZZZZZZ	1.00	1556																									
ZZZZZZ	1.00	1601																									
ICV	1.00	1605			X	X	X	X	X		X				X				X					X	X		
ICB	1.00	1609			X	X	X	X	X		X				X				X					X	X		
ICSA	1.00	1613																									
ICSAB	1.00	1616			X	X	X	X	X		X				X				X					X	X		
ZZZZZZ	1.00	1618																									
LCSW	1.00	1622			X	X	X	X	X		X				X				X					X	X		
ZZZZZZ	1.00	1627																									
ZZZZZZ	1.00	1631																									
ZZZZZZ	1.00	1635																									
ZZZZZZ	1.00	1639																									
CCV	1.00	1643			X	X	X	X	X		X				X				X					X	X		
CCB	1.00	1647			X	X	X	X	X		X				X				X					X	X		
ZZZZZZ	1.00	1651																									
ZZZZZZ	1.00	1655																									
ZZZZZZ	1.00	1659																									
PBW	1.00	1703			X	X	X	X	X		X				X				X					X	X		
SSTB6267	1.00	1707			X	X	X	X	X		X				X				X					X	X		
ICSA	1.00	1711																									
ICSAB	1.00	1714			X	X	X	X	X		X				X				X					X	X		
CCV	1.00	1717			X	X	X	X	X		X				X				X					X	X		
CCB	1.00	1721			X	X	X	X	X		X				X				X					X	X		

FORM XIV - IN SW846

U.S. EPA - CLP

14
ANALYSIS RUN LOG

Lab Name: MITKEM_CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B0096

Instrument ID Number: COMM_FIMS Method: CV

Start Date: 02/08/03 End Date: 02/08/03

EPA Sample No.	D/F	Time	% R	AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1156																X									
S0.2	1.00	1157																X									
S1	1.00	1159																X									
S2	1.00	1200																X									
S5	1.00	1201																X									
S10	1.00	1203																X									
ICV	1.00	1204																X									
ICB	1.00	1205																X									
PBW	1.00	1207																X									
LCSW	1.00	1208																X									
SSTB6267	1.00	1209																X									
ZZZZZZ	1.00	1211																									
ZZZZZZ	1.00	1212																									
ZZZZZZ	1.00	1213																									
ZZZZZZ	1.00	1215																									
ZZZZZZ	1.00	1216																									
CCV	1.00	1217																X									
CCB	1.00	1219																X									

FORM XIV - IN SW846

Instrument Raw Data

- [ ] ICP
- [ ] Mercury
- [ ] Cyanide

Method: 6010B A012436 Page 1 Date: 1/24/2003 3:57:47 PM

Analysis Begun

Start Time: 1/24/2003 3:53:13 PM
Logged In Analyst: optima2
Spectrometer Model: Optima 3100 XL

Plasma On Time: 1/24/2003 11:22:28 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\pe\administrator\Sample Information\CONM.sif
Results Data Set: A012403
Results Library: d:\pe\administrator\Results\Results.mdb

Method Loaded
Method Name: 6010B
IEC File: A020508X.iec
Method Description: Working method for all analytes

Method Last Saved: 1/15/2003 2:07:32 PM
MSF File:

Sequence No.: 1
Sample ID: BO
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 1/24/2003 3:53:13 PM

Sample Prep Volume:
Data Type: Original

Mean Data: BO

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
AT 328.068	-202.5	80.66	78.89%	[0.00]	mg/L
A. 308.215	12339.8	84.48	0.68%	[0.00]	mg/L
A. 188.979	-19.8	0.09	0.01%	[0.00]	mg/L
[illegible] 233.527	-832.9	1.63	0.20%	[0.00]	mg/L
[illegible] 313.107	-7621.1	113.32	1.49%	[0.00]	mg/L
[illegible] 228.616	-434.6	2.87	0.66%	[0.00]	mg/L
Cr 267.716	-420.9	17.96	4.27%	[0.00]	mg/L
Cu 324.752	3123.0	68.01	2.18%	[0.00]	mg/L
Fe 273.955	-782.7	45.62	5.75%	[0.00]	mg/L
Mg 279.077	-5733.6	655.79	11.51%	[0.00]	mg/L
Mn 257.610	-2162.9	5.94	0.27%	[0.00]	mg/L
Ni 231.604	-687.8	2.91	0.42%	[0.00]	mg/L
Pb 220.353	104.8	1.48	1.41%	[0.00]	mg/L
Sb 206.836	-12.4	1.57	12.65%	[0.00]	mg/L
Se 196.026	48.1	0.83	1.71%	[0.00]	mg/L
Tl 190.801	-14.6	4.14	28.28%	[0.00]	mg/L
V 292.402	72.5	95.25	131.30%	[0.00]	mg/L
Zn 206.200	-485.5	6.38	1.31%	[0.00]	mg/L
Ba 330.237	885.3	103.20	11.66%	[0.00]	mg/L
Cd 226.502	-499.6	2.17	0.44%	[0.00]	mg/L
Ti 334.940	7240.2	78.68	6.34%	[0.00]	mg/L
Ca 227.546	64.1	35.13	23.50%	[0.00]	mg/L

Analysis Begun

Start Time: 1/24/2003 3:56:21 PM
Logged In Analyst: optima2
Spectrometer Model: Optima 3100 XL

Plasma On Time: 1/24/2003 11:22:28 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\pe\administrator\Sample Information\CONM.sif
Results Data Set: A012403
Results Library: d:\pe\administrator\Results\Results.mdb

Sequence No.: 2
Sample ID: S1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 1/24/2003 3:56:21 PM

Sample Prep Volume:
Data Type: Original

Method: 6010B Page 2 Date: 1/24/2003 4:05:55 PM

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Ag 328.068	636741.3	380.13	0.06%	[2.5]	mg/L
Al 308.215	1180769.3	2934.59	0.25%	[20]	mg/L
As 188.979	2350.6	58.91	2.42%	[1]	mg/L
Ba 233.527	2016923.3	2218.22	0.11%	[20]	mg/L
Be 313.107	5122941.8	9755.08	0.19%	[0.5]	mg/L
Co 228.616	183174.2	157.59	0.09%	[5]	mg/L
Cr 267.716	796625.3	1585.14	0.20%	[2]	mg/L
Cu 324.752	1457968.3	6305.28	0.43%	[2.5]	mg/L
Fe 273.955	593894.1	935.83	0.16%	[10]	mg/L
Mg 279.077	2568414.4	3092.26	0.12%	[50]	mg/L
Mn 257.610	2521536.5	7407.74	0.29%	[5]	mg/L
Ni 231.604	412783.4	812.12	0.20%	[5]	mg/L
Pb 220.353	23012.7	63.39	0.28%	[1]	mg/L
Sb 206.836	3896.5	90.84	2.33%	[1]	mg/L
Se 196.026	2727.9	64.99	2.38%	[1]	mg/L
Tl 190.801	2951.5	12.92	0.44%	[1]	mg/L
V 292.402	2179703.6	6642.74	0.30%	[5]	mg/L
Zn 206.200	239526.6	708.83	0.13%	[5]	mg/L
Ba 330.237	124372.7	361.31	0.29%	[20]	mg/L
Cd 226.502	206321.0	517.96	0.25%	[0.5]	mg/L
Ti 334.940	1441922.4	2852.92	0.20%	[1]	mg/L
Ca 227.546	39864.3	224.22	0.56%	[50]	mg/L

Sequence No.: 3
Sample ID: S2
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 1/24/2003 3:58:55 PM

Sample Prep Volume:
Data Type: Original

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Ag 328.068	627269.2	2894.10	0.46%	[1.25]	mg/L
Al 308.215	564482.9	553.54	0.10%	[10]	mg/L
As 188.979	1190.5	3.20	0.27%	[0.5]	mg/L
Ba 233.527	1044218.6	8024.10	0.77%	[10]	mg/L
Be 313.107	2563253.3	24790.04	0.97%	[0.25]	mg/L
Co 228.616	93105.6	131.97	0.14%	[2.5]	mg/L
Cr 267.716	398711.0	611.42	0.05%	[1]	mg/L
Cu 324.752	724190.5	11342.16	1.57%	[1.25]	mg/L
Fe 273.955	298530.0	230.99	0.08%	[5]	mg/L
Mg 279.077	1292227.4	10066.94	0.77%	[25]	mg/L
Mn 257.610	1278325.6	13868.88	1.08%	[2.5]	mg/L
Ni 231.604	207918.9	179.48	0.09%	[2.5]	mg/L
Pb 220.353	11738.4	51.57	0.44%	[0.5]	mg/L
Sb 206.836	2037.4	38.72	1.90%	[0.5]	mg/L
Se 196.026	1384.1	4.94	0.36%	[0.5]	mg/L
Tl 190.801	1529.0	3.56	0.23%	[0.5]	mg/L
V 292.402	1085991.7	11113.56	1.02%	[2.5]	mg/L
Zn 206.200	284750.7	259.60	0.09%	[2.5]	mg/L
Ba 330.237	58786.7	176.07	0.30%	[25]	mg/L
Cd 226.502	103873.9	167.77	0.16%	[0.25]	mg/L
Ti 334.940	723721.6	7729.14	1.07%	[0.5]	mg/L
Ca 227.546	19918.6	78.87	0.41%	[25]	mg/L

Sequence No.: 4
Sample ID: S3
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 1/24/2003 4:03:03 PM

Sample Prep Volume:
Data Type: Original

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units

Method: 6010B Page 3 Date: 1/24/2003 4:08:29 PM

Ag 328.068	7292.2	23.23	0.32%	[0.025]	mg/L
Al 308.215	11303.7	404.42	0.92%	[0.25]	mg/L
As 188.979	25.6	2.92	11.45%	[0.01]	mg/L
Ba 233.527	23607.1	61.92	0.19%	[0.2]	mg/L
Be 313.107	54808.9	205.06	0.38%	[0.005]	mg/L
Co 228.616	2022.0	4.32	0.21%	[0.005]	mg/L
Cr 267.716	8572.0	60.52	0.71%	[0.02]	mg/L
Cu 324.752	17198.1	327.16	1.90%	[0.025]	mg/L
Fe 273.955	6492.0	22.81	0.35%	[0.1]	mg/L
Mg 279.077	27233.3	112.78	0.41%	[0.5]	mg/L
Mn 257.610	28568.2	99.63	0.35%	[0.05]	mg/L
Ni 231.604	4608.9	16.54	0.36%	[0.05]	mg/L
Pb 220.353	254.4	1.09	0.43%	[0.01]	mg/L
Sb 206.836	65.2	7.96	12.21%	[0.01]	mg/L
Se 196.026	30.1	4.75	15.78%	[0.01]	mg/L
Tl 190.801	36.9	2.57	6.96%	[0.01]	mg/L
V 292.402	23151.3	178.01	0.77%	[0.05]	mg/L
Zn 206.200	7086.4	121.16	1.71%	[0.05]	mg/L
Ba 330.237	1081.7	207.85	20.73%	[0.5]	mg/L
Cd 226.502	2263.1	5.51	0.24%	[0.005]	mg/L
Ti 334.940	15595.4	129.94	0.83%	[0.07]	mg/L
Ca 227.546	367.3	2.87	0.78%	[0.5]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	262600	0.00000	0.999998	
Al 308.215	3	Lin Thru 0	0.0	57720	0.00000	0.999938	
As 188.979	3	Lin Thru 0	0.0	2357	0.00000	0.999386	
Ba 233.527	3	Lin Thru 0	0.0	101600	0.00000	0.999900	
Be 313.107	3	Lin Thru 0	0.0	10250000	0.00000	1.000000	
Co 228.616	3	Lin Thru 0	0.0	36790	0.00000	0.999881	
Cr 267.716	3	Lin Thru 0	0.0	398400	0.00000	1.000000	
Cu 324.752	3	Lin Thru 0	0.0	582400	0.00000	0.999995	
Fe 273.955	3	Lin Thru 0	0.0	59450	0.00000	0.999997	
Mg 279.077	3	Lin Thru 0	0.0	51430	0.00000	0.999997	
Mn 257.610	3	Lin Thru 0	0.0	505700	0.00000	0.999984	
Ni 231.604	3	Lin Thru 0	0.0	82680	0.00000	0.999955	
Pb 220.353	3	Lin Thru 0	0.0	83110	0.00000	0.999967	
Sb 206.836	3	Lin Thru 0	0.0	3932	0.00000	0.999818	
Se 196.026	3	Lin Thru 0	0.0	2736	0.00000	0.999982	
Tl 190.801	3	Lin Thru 0	0.0	2973	0.00000	0.999895	
V 292.402	3	Lin Thru 0	0.0	435400	0.00000	0.999998	
Zn 206.200	3	Lin Thru 0	0.0	112300	0.00000	0.999972	
Ba 330.237	3	Lin Thru 0	0.0	2460	0.00000	0.999754	
Cd 226.502	3	Lin Thru 0	0.0	413200	0.00000	0.999986	
Ti 334.940	3	Lin Thru 0	0.0	1447000	0.00000	0.999989	
Ca 227.546	3	Lin Thru 0	0.0	775.6	0.00000	0.999990	

Sequence No.: 5
Sample ID: CHECK
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 1/24/2003 4:07:02 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CHECK

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	644524.4	2.4575	mg/L	0.04080	2.4575	mg/L	0.04080	1.66%
Al 308.215	1143397.4	19.809	mg/L	0.2980	19.809	mg/L	0.2980	1.50%
As 188.979	2385.3	1.0319	mg/L	0.00052	1.0319	mg/L	0.00052	0.05%
Ba 233.527	1992740.8	19.632	mg/L	0.2202	19.632	mg/L	0.2202	1.12%
Be 313.107	5103920.5	0.4989	mg/L	0.00324	0.4989	mg/L	0.00324	0.65%
Co 228.616	180858.6	4.9167	mg/L	0.06005	4.9167	mg/L	0.06005	1.22%
Cr 267.716	787208.6	1.9762	mg/L	0.02133	1.9762	mg/L	0.02133	1.08%
Cu 324.752	1440295.9	2.4660	mg/L	0.03791	2.4660	mg/L	0.03791	1.54%
Fe 273.955	586832.0	9.8705	mg/L	0.11157	9.8705	mg/L	0.11157	1.13%
Mg 279.077	2538558.8	49.382	mg/L	0.4738	49.382	mg/L	0.4738	0.96%

Mn 257.610	2495172.9	4.9335	mg/L	0.05165	4.9335	mg/L	0.05165	1.05%
Ni 231.604	409810.7	4.9557	mg/L	0.04980	4.9557	mg/L	0.04980	1.00%
Pb 220.353	23159.8	1.0055	mg/L	0.00081	1.0055	mg/L	0.00081	0.08%
Sb 206.836	3911.1	1.0026	mg/L	0.01240	1.0026	mg/L	0.01240	1.24%
Se 196.026	2756.0	1.0045	mg/L	0.00355	1.0045	mg/L	0.00355	0.35%
Tl 190.801	3022.2	1.0264	mg/L	0.00296	1.0264	mg/L	0.00296	0.29%
V 292.402	2148141.8	4.9372	mg/L	0.06011	4.9372	mg/L	0.06011	1.22%
Zn 206.200	554888.4	4.9400	mg/L	0.04319	4.9400	mg/L	0.04319	0.87%
Na 330.237	123003.3	50.164	mg/L	0.6956	50.164	mg/L	0.6956	1.39%
Cd 226.502	204047.2	0.4945	mg/L	0.00429	0.4945	mg/L	0.00429	0.87%
Ti 334.940	1421253.7	0.9849	mg/L	0.01333	0.9849	mg/L	0.01333	1.35%
Ca 227.546	39058.8	50.013	mg/L	0.2169	50.013	mg/L	0.2169	0.43%

Sequence No.: 6
Sample ID: LRA #1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 1/24/2003 4:09:37 PM

Sample Prep Volume:
Data Type: Original

Mean Data: LRA #1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-3574.4	-0.0022	mg/L	0.00021	-0.0022	mg/L	0.00021	9.39%
Al 308.215	45480.7	0.7879	mg/L	0.00481	0.7879	mg/L	0.00481	0.61%
As 188.979	48083.5	20.601	mg/L	0.1441	20.601	mg/L	0.1441	0.70%
Ba 233.527	-2109.4	0.0248	mg/L	0.00008	0.0248	mg/L	0.00008	0.33%
Be 313.107	Saturated3							
Saturated in preshot (code 3)								
Co 228.616	763704.4	20.757	mg/L	0.0712	20.757	mg/L	0.0712	0.34%
Cr 267.716	8197830.1	20.578	mg/L	0.0341	20.578	mg/L	0.0341	0.17%
Cu 324.752	11876157.9	20.360	mg/L	0.0037	20.360	mg/L	0.0037	0.02%
Fe 273.955	1242062.2	20.891	mg/L	0.0729	20.891	mg/L	0.0729	0.35%
Mg 279.077	1024982.8	20.028	mg/L	0.0644	20.028	mg/L	0.0644	0.32%
Mn 257.610	9822466.4	19.425	mg/L	0.0465	19.425	mg/L	0.0465	0.24%
Ni 231.604	1733886.6	20.967	mg/L	0.0583	20.967	mg/L	0.0583	0.28%
Pb 220.353	497573.9	21.540	mg/L	0.0669	21.540	mg/L	0.0669	0.31%
Sb 206.836	84425.4	21.484	mg/L	0.1692	21.484	mg/L	0.1692	0.79%
Se 196.026	56810.8	20.455	mg/L	0.0832	20.455	mg/L	0.0832	0.41%
Tl 190.801	65180.0	21.952	mg/L	0.0629	21.952	mg/L	0.0629	0.29%
V 292.402	8753195.5	20.146	mg/L	0.0273	20.146	mg/L	0.0273	0.14%
Zn 206.200	2215144.3	19.757	mg/L	0.0698	19.757	mg/L	0.0698	0.35%
Na 330.237	55779.0	22.393	mg/L	0.0664	22.393	mg/L	0.0664	0.30%
Cd 226.502	8234481.4	19.932	mg/L	0.0200	19.932	mg/L	0.0200	0.10%
Ti 334.940	Saturated2							
Saturated in preshot (code 2)								
Ca 227.546	22322.9	27.256	mg/L	0.1804	27.256	mg/L	0.1804	0.66%

Sequence No.: 7
Sample ID: LRA #3
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 1/24/2003 4:12:28 PM

Sample Prep Volume:
Data Type: Original

Mean Data: LRA #3

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	196.8	0.0006	mg/L	0.00026	0.0006	mg/L	0.00026	42.86%
Al 308.215	27483202.6	476.14	mg/L	0.983	476.14	mg/L	0.983	0.21%
As 188.979	12.4	0.0043	mg/L	0.00138	0.0043	mg/L	0.00138	31.76%
Ba 233.527	188.0	0.0019	mg/L	0.00033	0.0019	mg/L	0.00033	17.93%
Be 313.107	19788.8	0.0019	mg/L	0.00055	0.0019	mg/L	0.00055	28.62%
Co 228.616	-90.3	-0.0011	mg/L	0.00018	-0.0011	mg/L	0.00018	15.95%
Cr 267.716	810.1	0.0020	mg/L	0.00008	0.0020	mg/L	0.00008	3.71%
Cu 324.752	56944.2	0.0974	mg/L	0.02066	0.0974	mg/L	0.02066	21.22%
Fe 273.955	1820.4	0.0306	mg/L	0.00116	0.0306	mg/L	0.00116	3.78%
Mg 279.077	25938707.0	504.32	mg/L	0.794	504.32	mg/L	0.794	0.16%
Mn 257.610	1670.1	-0.0013	mg/L	0.00014	-0.0013	mg/L	0.00014	10.95%

Ni 231.604	144.1	0.0017	mg/L	0.00011	0.0017	mg/L	0.00011	6.38%
Pb 220.353	-816.6	-0.0027	mg/L	0.00143	-0.0027	mg/L	0.00143	52.99%
Sb 206.836	112.3	0.0288	mg/L	0.00954	0.0288	mg/L	0.00954	33.16%
Se 196.026	27.8	0.0129	mg/L	0.00265	0.0129	mg/L	0.00265	20.47%
Tl 190.801	13.3	0.0021	mg/L	0.00049	0.0021	mg/L	0.00049	23.63%
V 292.402	211.2	0.0005	mg/L	0.00002	0.0005	mg/L	0.00002	4.38%
Zn 206.200	7132.1	0.0410	mg/L	0.01130	0.0410	mg/L	0.01130	27.53%
Na 330.237	395.1	0.1613	mg/L	0.06380	0.1613	mg/L	0.06380	39.56%
Cd 226.502	-48.0	-0.0001	mg/L	0.00009	-0.0001	mg/L	0.00009	74.81%
Ti 334.940	2867.3	0.0020	mg/L	0.00066	0.0020	mg/L	0.00066	33.32%
Ca 227.546	-78.8	0.1143	mg/L	0.00271	0.1143	mg/L	0.00271	2.37%

Sequence No.: 8
Sample ID: LRA #4
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 1/24/2003 4:16:38 PM

Sample Prep Volume:
Data Type: Original

Mean Data: LRA #4

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-12622.8	0.0038	mg/L	0.00098	0.0038	mg/L	0.00098	25.68%
Al 308.215	3530.4	0.0612	mg/L	0.00489	0.0612	mg/L	0.00489	8.00%
As 188.979	-71.2	-0.0017	mg/L	0.00050	-0.0017	mg/L	0.00050	30.26%
Ba 233.527	1544.7	0.0027	mg/L	0.00025	0.0027	mg/L	0.00025	9.43%
Be 313.107	7434.1	0.0007	mg/L	0.00005	0.0007	mg/L	0.00005	6.51%
Co 228.616	175.0	0.0010	mg/L	0.00012	0.0010	mg/L	0.00012	12.22%
Cr 267.716	-798.6	0.0015	mg/L	0.00013	0.0015	mg/L	0.00013	8.32%
Cu 324.752	-2611.1	0.0349	mg/L	0.00223	0.0349	mg/L	0.00223	6.38%
Fe 273.955	16685539.5	280.65	mg/L	2.518	280.65	mg/L	2.518	0.90%
Mg 279.077	4873.0	0.0945	mg/L	0.00009	0.0945	mg/L	0.00009	0.09%
Mn 257.610	-19857.2	-0.0348	mg/L	0.00018	-0.0348	mg/L	0.00018	0.51%
Ni 231.604	631.0	0.0076	mg/L	0.00020	0.0076	mg/L	0.00020	2.67%
Pb 220.353	168.8	0.0130	mg/L	0.00010	0.0130	mg/L	0.00010	0.79%
Sb 206.836	-30.3	0.0057	mg/L	0.00347	0.0057	mg/L	0.00347	61.12%
Se 196.026	-242.3	-0.0184	mg/L	0.00194	-0.0184	mg/L	0.00194	10.53%
Tl 190.801	-27.2	-0.0010	mg/L	0.00052	-0.0010	mg/L	0.00052	52.91%
V 292.402	96.2	-0.0021	mg/L	0.00002	-0.0021	mg/L	0.00002	0.73%
Zn 206.200	3589.6	0.0120	mg/L	0.00169	0.0120	mg/L	0.00169	14.11%
Na 330.237	-1282.7	-0.0376	mg/L	0.09385	-0.0376	mg/L	0.09385	249.50%
Cd 226.502	6336.9	0.0044	mg/L	0.00001	0.0044	mg/L	0.00001	0.33%
Ti 334.940	522.5	0.0004	mg/L	0.00004	0.0004	mg/L	0.00004	10.92%
Ca 227.546	2736.1	1.0949	mg/L	0.00266	1.0949	mg/L	0.00266	0.24%

Sequence No.: 9
Sample ID: LRA #5
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 1/24/2003 4:20:50 PM

Sample Prep Volume:
Data Type: Original

Mean Data: LRA #5

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	1166.7	-0.0063	mg/L	0.00007	-0.0063	mg/L	0.00007	1.06%
Al 308.215	1216.8	0.0211	mg/L	0.00419	0.0211	mg/L	0.00419	19.90%
As 188.979	4.6	0.0020	mg/L	0.00068	0.0020	mg/L	0.00068	35.10%
Ba 233.527	125.8	-0.0002	mg/L	0.00004	-0.0002	mg/L	0.00004	18.65%
Be 313.107	4128.4	0.0004	mg/L	0.00003	0.0004	mg/L	0.00003	9.44%
Co 228.616	18.9	0.0005	mg/L	0.00001	0.0005	mg/L	0.00001	2.34%
Cr 267.716	234.5	0.0006	mg/L	0.00000	0.0006	mg/L	0.00000	0.11%
Cu 324.752	9702.5	0.0152	mg/L	0.00151	0.0152	mg/L	0.00151	9.93%
Fe 273.955	1389.0	0.0234	mg/L	0.00546	0.0234	mg/L	0.00546	23.37%
Mg 279.077	-1012.9	-0.0197	mg/L	0.00064	-0.0197	mg/L	0.00064	3.27%
Mn 257.610	392.2	0.0008	mg/L	0.00002	0.0008	mg/L	0.00002	2.19%
Ni 231.604	96.8	0.0012	mg/L	0.00007	0.0012	mg/L	0.00007	6.10%
Pb 220.353	-120.2	-0.0043	mg/L	0.00051	-0.0043	mg/L	0.00051	11.91%
Sb 206.836	17.1	0.0059	mg/L	0.00060	0.0059	mg/L	0.00060	10.17%

Se 196.026	9.5	0.0035	mg/L	0.00039	0.0035	mg/L	0.00039	11.32%
Tl 190.801	1.5	-0.0012	mg/L	0.00063	-0.0012	mg/L	0.00063	51.06%
V 292.402	80.0	0.0002	mg/L	0.00025	0.0002	mg/L	0.00025	137.36%
Zn 206.200	790.7	0.0050	mg/L	0.00070	0.0050	mg/L	0.00070	13.85%
Na 330.237	3058.4	1.5210	mg/L	0.09831	1.5210	mg/L	0.09831	6.46%
Cd 226.502	7.1	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	87.43%
Ti 334.940	8038.7	0.0091	mg/L	0.00001	0.0091	mg/L	0.00001	0.08%
Ca 227.546	387937.5	500.19	mg/L	9.405	500.19	mg/L	9.405	1.88%

Sequence No.: 10
Sample ID: ICV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 1/24/2003 4:24:53 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	326319.8	1.2442	mg/L	0.00984	1.2442	mg/L	0.00984	0.79%
Al 308.215	564787.5	9.7849	mg/L	0.09185	9.7849	mg/L	0.09185	0.94%
As 188.979	1209.7	0.5231	mg/L	0.00043	0.5231	mg/L	0.00043	0.08%
Ba 233.527	1073608.4	10.576	mg/L	0.0677	10.576	mg/L	0.0677	0.64%
Be 313.107	2615836.4	0.2552	mg/L	0.00020	0.2552	mg/L	0.00020	0.08%
Co 228.616	93328.0	2.5364	mg/L	0.01749	2.5364	mg/L	0.01749	0.69%
Cr 267.716	401756.9	1.0085	mg/L	0.00649	1.0085	mg/L	0.00649	0.64%
Cu 324.752	749114.4	1.2830	mg/L	0.01119	1.2830	mg/L	0.01119	0.87%
Fe 273.955	302263.5	5.0841	mg/L	0.02979	5.0841	mg/L	0.02979	0.59%
Mg 279.077	1307417.9	25.443	mg/L	0.0942	25.443	mg/L	0.0942	0.37%
Mn 257.610	1291700.9	2.5540	mg/L	0.01265	2.5540	mg/L	0.01265	0.50%
Ni 231.604	213779.0	2.5853	mg/L	0.01228	2.5853	mg/L	0.01228	0.48%
Pb 220.353	11861.2	0.5146	mg/L	0.00069	0.5146	mg/L	0.00069	0.13%
Sb 206.836	2138.9	0.5476	mg/L	0.00764	0.5476	mg/L	0.00764	1.40%
Se 196.026	1422.0	0.5184	mg/L	0.00107	0.5184	mg/L	0.00107	0.21%
Tl 190.801	1560.2	0.5292	mg/L	0.00060	0.5292	mg/L	0.00060	0.11%
V 292.402	1090047.0	2.5056	mg/L	0.01852	2.5056	mg/L	0.01852	0.74%
Zn 206.200	289892.7	2.5813	mg/L	0.00267	2.5813	mg/L	0.00267	0.10%
Na 330.237	60393.5	24.504	mg/L	0.1123	24.504	mg/L	0.1123	0.46%
Cd 226.502	105841.2	0.2565	mg/L	0.00107	0.2565	mg/L	0.00107	0.42%
Ti 334.940	2364.6	0.0016	mg/L	0.00002	0.0016	mg/L	0.00002	1.17%
Ca 227.546	19460.8	24.913	mg/L	0.0302	24.913	mg/L	0.0302	0.12%

Sequence No.: 11
Sample ID: ICB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 1/24/2003 4:29:03 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	90.4	0.0003	mg/L	0.00021	0.0003	mg/L	0.00021	62.04%
Al 308.215	-267.5	-0.0046	mg/L	0.00198	-0.0046	mg/L	0.00198	42.67%
As 188.979	2.5	0.0011	mg/L	0.00067	0.0011	mg/L	0.00067	62.15%
Ba 233.527	214.5	0.0021	mg/L	0.00027	0.0021	mg/L	0.00027	12.96%
Be 313.107	2684.2	0.0003	mg/L	0.00004	0.0003	mg/L	0.00004	13.68%
Co 228.616	16.0	0.0004	mg/L	0.00000	0.0004	mg/L	0.00000	0.47%
Cr 267.716	40.0	0.0001	mg/L	0.00007	0.0001	mg/L	0.00007	69.12%
Cu 324.752	5564.4	0.0096	mg/L	0.00072	0.0096	mg/L	0.00072	7.58%
Fe 273.955	412.3	0.0069	mg/L	0.00082	0.0069	mg/L	0.00082	11.87%
Mg 279.077	-1112.3	-0.0216	mg/L	0.00106	-0.0216	mg/L	0.00106	4.90%
Mn 257.610	205.4	0.0004	mg/L	0.00003	0.0004	mg/L	0.00003	6.46%
Ni 231.604	37.2	0.0004	mg/L	0.00002	0.0004	mg/L	0.00002	5.14%
Pb 220.353	4.5	0.0002	mg/L	0.00027	0.0002	mg/L	0.00027	136.13%
Sb 206.836	18.4	0.0047	mg/L	0.00139	0.0047	mg/L	0.00139	29.63%
Se 196.026	4.8	0.0017	mg/L	0.00023	0.0017	mg/L	0.00023	13.30%
Tl 190.801	3.6	0.0012	mg/L	0.00034	0.0012	mg/L	0.00034	27.49%
V 292.402	125.1	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	1.78%

Zn 206.200	832.8	0.0074	mg/L	0.00127	0.0074	mg/L	0.00127	17.19%
Na 330.237	10.6	0.0044	mg/L	0.00548	0.0044	mg/L	0.00548	124.33%
Cd 226.502	5.3	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	55.42%
Ti 334.940	186.7	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	21.58%
Ca 227.546	-31.2	-0.0405	mg/L	0.01085	-0.0405	mg/L	0.01085	26.78%

Sequence No.: 12
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 1/24/2003 4:33:05 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-7087.2	-0.0065	mg/L	0.00069	-0.0065	mg/L	0.00069	10.68%
Al 308.215	27684091.6	479.62	mg/L	2.633	479.62	mg/L	2.633	0.55%
As 188.979	44.2	0.0356	mg/L	0.00106	0.0356	mg/L	0.00106	2.98%
Ba 233.527	1388.2	0.0047	mg/L	0.00027	0.0047	mg/L	0.00027	5.71%
Be 313.107	454068.1	0.0444	mg/L	0.00026	0.0444	mg/L	0.00026	0.58%
Co 228.616	1353.7	0.0358	mg/L	0.00008	0.0358	mg/L	0.00008	0.22%
Cr 267.716	16501.1	0.0436	mg/L	0.00016	0.0436	mg/L	0.00016	0.37%
Cu 324.752	23659.1	0.0625	mg/L	0.00038	0.0625	mg/L	0.00038	0.60%
Fe 273.955	10113215.7	170.10	mg/L	0.530	170.10	mg/L	0.530	0.31%
Mg 279.077	24144883.1	469.45	mg/L	1.699	469.45	mg/L	1.699	0.36%
Mn 257.610	11342.6	0.0212	mg/L	0.00032	0.0212	mg/L	0.00032	1.53%
Ni 231.604	3585.7	0.0433	mg/L	0.00023	0.0433	mg/L	0.00023	0.54%
Pb 220.353	183.2	0.0453	mg/L	0.00011	0.0453	mg/L	0.00011	0.25%
Sb 206.836	154.1	0.0493	mg/L	0.01804	0.0493	mg/L	0.01804	36.58%
Se 196.026	-37.7	0.0313	mg/L	0.00381	0.0313	mg/L	0.00381	12.16%
Tl 190.801	78.8	0.0270	mg/L	0.00072	0.0270	mg/L	0.00072	2.68%
V 292.402	18189.4	0.0404	mg/L	0.00026	0.0404	mg/L	0.00026	0.65%
Zn 206.200	7032.8	0.0384	mg/L	0.00078	0.0384	mg/L	0.00078	2.03%
Na 330.237	954.7	0.1461	mg/L	0.08317	0.1461	mg/L	0.08317	56.93%
Cd 226.502	21242.7	0.0448	mg/L	0.00012	0.0448	mg/L	0.00012	0.28%
Ti 334.940	67053.1	0.0500	mg/L	0.00039	0.0500	mg/L	0.00039	0.77%
Ca 227.546	396830.1	510.40	mg/L	4.624	510.40	mg/L	4.624	0.91%

Sequence No.: 13
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 1/24/2003 4:35:44 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	47329.3	0.2012	mg/L	0.00173	0.2012	mg/L	0.00173	0.86%
Al 308.215	28538437.9	494.43	mg/L	1.753	494.43	mg/L	1.753	0.35%
As 188.979	194.0	0.1038	mg/L	0.00054	0.1038	mg/L	0.00054	0.52%
Ba 233.527	53547.0	0.5191	mg/L	0.00025	0.5191	mg/L	0.00025	0.05%
Be 313.107	5221090.5	0.5094	mg/L	0.00208	0.5094	mg/L	0.00208	0.41%
Co 228.616	16715.1	0.4533	mg/L	0.00532	0.4533	mg/L	0.00532	1.17%
Cr 267.716	197572.3	0.4981	mg/L	0.00174	0.4981	mg/L	0.00174	0.35%
Cu 324.752	321188.5	0.5731	mg/L	0.00293	0.5731	mg/L	0.00293	0.51%
Fe 273.955	10352349.1	174.13	mg/L	0.620	174.13	mg/L	0.620	0.36%
Mg 279.077	24715995.9	480.55	mg/L	1.772	480.55	mg/L	1.772	0.37%
Mn 257.610	248265.3	0.4897	mg/L	0.00184	0.4897	mg/L	0.00184	0.38%
Ni 231.604	79577.4	0.9624	mg/L	0.00062	0.9624	mg/L	0.00062	0.06%
Pb 220.353	9959.1	0.4698	mg/L	0.00384	0.4698	mg/L	0.00384	0.82%
Sb 206.836	2470.7	0.6391	mg/L	0.01807	0.6391	mg/L	0.01807	2.83%
Se 196.026	1353.6	0.5404	mg/L	0.02411	0.5404	mg/L	0.02411	4.46%
Tl 190.801	260.2	0.0886	mg/L	0.01079	0.0886	mg/L	0.01079	12.18%
V 292.402	221142.3	0.5075	mg/L	0.00248	0.5075	mg/L	0.00248	0.49%
Zn 206.200	107231.6	0.9307	mg/L	0.00348	0.9307	mg/L	0.00348	0.37%
Na 330.237	128647.7	52.015	mg/L	0.2257	52.015	mg/L	0.2257	0.43%
Cd 226.502	396981.1	0.9541	mg/L	0.00252	0.9541	mg/L	0.00252	0.26%

Ti 334.940	8861.9	0.0098 mg/L	0.00006	0.0098 mg/L	0.00006	0.65%
Ca 227.546	414371.8	532.95 mg/L	2.170	532.95 mg/L	2.170	0.41%

Analysis Begun

Start Time: 1/24/2003 4:47:54 PM
Logged In Analyst: optima2
Spectrometer Model: Optima 3100 XL
Plasma On Time: 1/24/2003 11:22:28 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\pe\administrator\Sample Information\Evan.sif
Results Data Set: A012403
Results Library: d:\pe\administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: SO
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 1/24/2003 4:47:54 PM
Sample Prep Volume:
Data Type: Original

Analysis Begun

Start Time: 1/24/2003 4:48:56 PM
Logged In Analyst: optima2
Spectrometer Model: Optima 3100 XL
Plasma On Time: 1/24/2003 11:22:28 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\pe\administrator\Sample Information\Evan.sif
Results Data Set: A012403
Results Library: d:\pe\administrator\Results\Results.mdb

Sequence No.: 88
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 1/24/2003 4:48:56 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	12.4	0.0000	mg/L	0.00018	0.0000	mg/L	0.00018	375.55%
Al 308.215	-335.9	-0.0058	mg/L	0.00157	-0.0058	mg/L	0.00157	26.95%
As 188.979	0.8	0.0004	mg/L	0.00049	0.0004	mg/L	0.00049	138.71%
Ba 233.527	29.6	0.0003	mg/L	0.00005	0.0003	mg/L	0.00005	15.78%
Be 313.107	1245.3	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	12.88%
Co 228.616	1.9	0.0001	mg/L	0.00018	0.0001	mg/L	0.00018	360.13%
Cr 267.716	4.8	0.0000	mg/L	0.00019	0.0000	mg/L	0.00019	>999.9%
Cu 324.752	1886.0	0.0032	mg/L	0.00015	0.0032	mg/L	0.00015	4.60%
Fe 273.955	318.6	0.0054	mg/L	0.00052	0.0054	mg/L	0.00052	9.66%
Mg 279.077	-943.4	-0.0183	mg/L	0.00172	-0.0183	mg/L	0.00172	9.36%
Mn 257.610	83.0	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	18.48%
Ni 231.604	10.5	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	38.66%
Pb 220.353	5.0	0.0002	mg/L	0.00055	0.0002	mg/L	0.00055	256.63%
Sb 206.836	2.2	0.0006	mg/L	0.00074	0.0006	mg/L	0.00074	129.54%
Se 196.026	-0.2	-0.0001	mg/L	0.00052	-0.0001	mg/L	0.00052	685.34%
Tl 190.801	1.6	0.0005	mg/L	0.00091	0.0005	mg/L	0.00091	167.87%
V 292.402	70.6	0.0002	mg/L	0.00011	0.0002	mg/L	0.00011	68.36%
Zn 206.200	111.3	0.0010	mg/L	0.00011	0.0010	mg/L	0.00011	11.39%
Na 330.237	160.2	0.0652	mg/L	0.07294	0.0652	mg/L	0.07294	111.95%
Cd 226.502	2.5	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	49.25%
Ti 334.940	184.0	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	23.56%
Ca 227.546	-12.0	-0.0155	mg/L	0.02433	-0.0155	mg/L	0.02433	156.71%

Analysis Begun

Start Time: 1/24/2003 4:55:52 PM
Logged In Analyst: optima2
Spectrometer Model: Optima 3100 XL
Plasma On Time: 1/24/2003 11:22:28 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\pe\administrator\Sample Information\Evan.sif
Results Data Set: A012403
Results Library: d:\pe\administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 5
Date Collected: 1/24/2003 4:55:53 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	-6849.6	-0.0062	mg/L	0.00082	-0.0062	mg/L	0.00082	13.28%
Al 308.215	26845609.0	465.10	mg/L	2.553	465.10	mg/L	2.553	0.55%
As 188.979	-30.6	0.0028	mg/L	0.01003	0.0028	mg/L	0.01003	352.21%
Ba 233.527	936.4	0.0004	mg/L	0.00032	0.0004	mg/L	0.00032	72.31%
Be 313.107	2408.6	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	2.57%
Co 228.616	-95.8	-0.0035	mg/L	0.00002	-0.0035	mg/L	0.00002	0.70%
Cr 267.716	-722.1	0.0003	mg/L	0.00007	0.0003	mg/L	0.00007	26.39%
Cu 324.752	-8217.7	0.0072	mg/L	0.00001	0.0072	mg/L	0.00001	0.03%
Fe 273.955	9789453.8	164.66	mg/L	0.503	164.66	mg/L	0.503	0.31%
Mg 279.077	23336398.7	453.73	mg/L	1.307	453.73	mg/L	1.307	0.29%
Mn 257.610	-11125.0	-0.0232	mg/L	0.00031	-0.0232	mg/L	0.00031	1.32%
Ni 231.604	159.0	0.0019	mg/L	0.00022	0.0019	mg/L	0.00022	11.47%
Pb 220.353	-736.7	0.0043	mg/L	0.00036	0.0043	mg/L	0.00036	8.40%
Sb 206.836	-33.6	0.0012	mg/L	0.00023	0.0012	mg/L	0.00023	19.12%
Se 196.026	-129.8	-0.0037	mg/L	0.00703	-0.0037	mg/L	0.00703	188.15%
Tl 190.801	-15.9	-0.0050	mg/L	0.00404	-0.0050	mg/L	0.00404	80.77%
V 292.402	8.1	-0.0014	mg/L	0.00009	-0.0014	mg/L	0.00009	6.46%
Zn 206.200	1986.5	-0.0058	mg/L	0.00028	-0.0058	mg/L	0.00028	4.83%
Na 330.237	947.5	0.1449	mg/L	0.17578	0.1449	mg/L	0.17578	121.34%
Cd 226.502	4083.1	0.0035	mg/L	0.00012	0.0035	mg/L	0.00012	3.52%
Ti 334.940	8916.6	0.0096	mg/L	0.00028	0.0096	mg/L	0.00028	2.94%
Ca 227.546	381615.7	490.83	mg/L	6.401	490.83	mg/L	6.401	1.30%

Sequence No.: 2
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 6
Date Collected: 1/24/2003 4:58:31 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	46549.7	0.1985	mg/L	0.00100	0.1985	mg/L	0.00100	0.50%
Al 308.215	28631075.8	496.03	mg/L	0.116	496.03	mg/L	0.116	0.02%
As 188.979	203.9	0.1080	mg/L	0.00266	0.1080	mg/L	0.00266	2.47%
Ba 233.527	52842.5	0.5122	mg/L	0.00197	0.5122	mg/L	0.00197	0.39%
Be 313.107	5222122.9	0.5095	mg/L	0.00014	0.5095	mg/L	0.00014	0.03%
Co 228.616	16647.4	0.4515	mg/L	0.00145	0.4515	mg/L	0.00145	0.32%
Cr 267.716	195806.2	0.4937	mg/L	0.00200	0.4937	mg/L	0.00200	0.40%
Cu 324.752	311268.0	0.5562	mg/L	0.00336	0.5562	mg/L	0.00336	0.60%
Fe 273.955	103880568.5	174.60	mg/L	0.123	174.60	mg/L	0.123	0.07%
Mg 279.077	24810080.8	482.38	mg/L	0.152	482.38	mg/L	0.152	0.03%
Mn 257.610	246458.0	0.4861	mg/L	0.00206	0.4861	mg/L	0.00206	0.42%
Ni 231.604	79553.5	0.9621	mg/L	0.00073	0.9621	mg/L	0.00073	0.08%
Pb 220.353	9906.0	0.4676	mg/L	0.00115	0.4676	mg/L	0.00115	0.25%
Sb 206.836	2464.4	0.6375	mg/L	0.00938	0.6375	mg/L	0.00938	1.47%

Se 196.026	1332.2	0.5327	mg/L	0.01977	0.5327	mg/L	0.01977	3.71%
Tl 190.801	260.3	0.0886	mg/L	0.00168	0.0886	mg/L	0.00168	1.89%
V 292.402	218356.7	0.5011	mg/L	0.00228	0.5011	mg/L	0.00228	0.45%
Zn 206.200	106640.4	0.9254	mg/L	0.00253	0.9254	mg/L	0.00253	0.27%
Na 330.237	127310.9	51.481	mg/L	0.1484	51.481	mg/L	0.1484	0.29%
Cd 226.502	394382.8	0.9478	mg/L	0.00258	0.9478	mg/L	0.00258	0.27%
Ti 334.940	8773.1	0.0097	mg/L	0.00002	0.0097	mg/L	0.00002	0.19%
Ca 227.546	498748.2	525.70	mg/L	2.602	525.70	mg/L	2.602	0.49%

Sequence No.: 3
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 1/24/2003 5:01:15 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	320765.7	1.2231	mg/L	0.01777	1.2231	mg/L	0.01777	1.45%
Al 308.215	558721.1	9.6798	mg/L	0.02215	9.6798	mg/L	0.02215	0.23%
As 188.979	1181.8	0.5112	mg/L	0.00166	0.5112	mg/L	0.00166	0.33%
Ba 233.527	1065394.6	10.496	mg/L	0.1147	10.496	mg/L	0.1147	1.09%
Be 313.107	2565269.5	0.2503	mg/L	0.00266	0.2503	mg/L	0.00266	1.06%
Co 228.616	91227.1	2.4793	mg/L	0.00943	2.4793	mg/L	0.00943	0.38%
Cr 267.716	398563.7	1.0005	mg/L	0.00297	1.0005	mg/L	0.00297	0.30%
Cu 324.752	739076.3	1.2658	mg/L	0.01496	1.2658	mg/L	0.01496	1.18%
Fe 273.955	299430.3	5.0364	mg/L	0.00801	5.0364	mg/L	0.00801	0.16%
Mg 279.077	1302859.0	25.345	mg/L	0.2368	25.345	mg/L	0.2368	0.93%
Mn 257.610	1297878.0	2.5662	mg/L	0.02101	2.5662	mg/L	0.02101	0.82%
Ni 231.604	215474.2	2.6058	mg/L	0.00221	2.6058	mg/L	0.00221	0.08%
Pb 220.353	11683.9	0.5070	mg/L	0.00070	0.5070	mg/L	0.00070	0.14%
Sb 206.836	1890.1	0.4843	mg/L	0.00988	0.4843	mg/L	0.00988	2.04%
Se 196.026	1405.6	0.5123	mg/L	0.00169	0.5123	mg/L	0.00169	0.33%
Tl 190.801	1546.2	0.5246	mg/L	0.00026	0.5246	mg/L	0.00026	0.05%
V 292.402	1084722.6	2.4934	mg/L	0.02840	2.4934	mg/L	0.02840	1.14%
Zn 206.200	286675.2	2.5527	mg/L	0.01412	2.5527	mg/L	0.01412	0.55%
Na 330.237	59959.5	24.324	mg/L	0.1459	24.324	mg/L	0.1459	0.60%
Cd 226.502	104827.7	0.2541	mg/L	0.00074	0.2541	mg/L	0.00074	0.29%
Ti 334.940	2076.5	0.0014	mg/L	0.00006	0.0014	mg/L	0.00006	4.10%
Ca 227.546	19231.3	24.618	mg/L	0.0177	24.618	mg/L	0.0177	0.07%

Sequence No.: 4
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 1/24/2003 5:05:24 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	37.7	0.0001	mg/L	0.00010	0.0001	mg/L	0.00010	67.92%
Al 308.215	-246.8	-0.0043	mg/L	0.00074	-0.0043	mg/L	0.00074	17.40%
As 188.979	1.2	0.0005	mg/L	0.00028	0.0005	mg/L	0.00028	54.49%
Ba 233.527	185.0	0.0018	mg/L	0.00026	0.0018	mg/L	0.00026	14.38%
Be 313.107	1425.7	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	17.94%
Co 228.616	9.9	0.0003	mg/L	0.00012	0.0003	mg/L	0.00012	43.83%
Cr 267.716	-15.3	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	135.62%
Cu 324.752	2768.2	0.0048	mg/L	0.00057	0.0048	mg/L	0.00057	11.91%
Fe 273.955	535.4	0.0090	mg/L	0.00117	0.0090	mg/L	0.00117	13.01%
Mg 279.077	-902.0	-0.0175	mg/L	0.00295	-0.0175	mg/L	0.00295	16.82%
Mn 257.610	128.3	0.0003	mg/L	0.00004	0.0003	mg/L	0.00004	14.86%
Ni 231.604	20.8	0.0003	mg/L	0.00019	0.0003	mg/L	0.00010	40.40%
Pb 220.353	1.0	0.0000	mg/L	0.00007	0.0000	mg/L	0.00007	151.48%
Sb 206.836	17.2	0.0044	mg/L	0.00251	0.0044	mg/L	0.00251	57.50%
Se 196.026	4.9	0.0018	mg/L	0.00046	0.0018	mg/L	0.00046	25.61%
Tl 190.801	2.7	0.0009	mg/L	0.00019	0.0009	mg/L	0.00019	21.00%
V 292.402	99.8	0.0002	mg/L	0.00009	0.0002	mg/L	0.00009	37.63%

Zn 206.200	712.8	0.0063	mg/L	0.00130	0.0063	mg/L	0.00130 20.47%
Na 330.237	279.1	0.1135	mg/L	0.04510	0.1135	mg/L	0.04510 39.72%
Cd 226.502	14.1	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000 11.24%
Ti 334.940	63.8	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003 72.42%
Ca 227.546	-36.3	-0.0470	mg/L	0.00529	-0.0470	mg/L	0.00529 11.25%

Analysis Begun

Start Time: 1/24/2003 5:19:16 PM
Logged In Analyst: optima2
Spectrometer Model: Optima 3100 XL

Plasma On Time: 1/24/2003 11:22:28 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\pe\administrator\Sample Information\Evan.sif
Results Data Set: A012403
Results Library: d:\pe\administrator\Results\Results.mdb

Sequence No.: 5
Sample ID: MB-5284,5284
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 17
Data Collected: 1/24/2003 5:19:16 PM

Sample Prep Volume:
Data Type: Original

Mean Data: MB-5284,5284

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	115.1	0.0004	mg/L	0.00010	0.0004	mg/L	0.00010	22.59%
Al 308.215	-610.7	-0.0106	mg/L	0.00080	-0.0106	mg/L	0.00080	7.59%
As 188.979	5.3	0.0014	mg/L	0.00199	0.0014	mg/L	0.00199	142.50%
Ba 233.527	27.8	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	4.05%
Be 313.107	532.7	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	12.45%
Co 228.616	4.5	0.0001	mg/L	0.00009	0.0001	mg/L	0.00009	70.97%
Cr 267.716	-11.9	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	65.74%
Cu 324.752	1045.8	0.0018	mg/L	0.00029	0.0018	mg/L	0.00029	16.18%
Fe 273.955	197.8	0.0033	mg/L	0.00002	0.0033	mg/L	0.00002	0.59%
Mg 279.077	-1091.9	-0.0212	mg/L	0.00172	-0.0212	mg/L	0.00172	8.11%
Mn 257.610	69.3	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	7.87%
Ni 231.604	-1.5	0.0000	mg/L	0.00004	0.0000	mg/L	0.00004	196.96%
Pb 220.353	4.3	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	27.62%
Sb 206.836	3.2	0.0008	mg/L	0.00040	0.0008	mg/L	0.00040	48.70%
Se 196.026	4.2	0.0015	mg/L	0.00095	0.0015	mg/L	0.00095	62.51%
Tl 190.801	2.6	0.0009	mg/L	0.00091	0.0009	mg/L	0.00091	103.26%
V 292.402	50.4	0.0001	mg/L	0.00008	0.0001	mg/L	0.00008	65.27%
Zn 206.200	84.1	0.0007	mg/L	0.00001	0.0007	mg/L	0.00001	1.40%
Na 330.237	-180.5	-0.0733	mg/L	0.02758	-0.0733	mg/L	0.02758	37.64%
Cd 226.502	8.2	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	88.78%
Ti 334.940	77.4	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	18.26%
Ca 227.546	-35.6	-0.0460	mg/L	0.01439	-0.0460	mg/L	0.01439	31.26%

Sequence No.: 6
Sample ID: LCS-5284,5284
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 18
Data Collected: 1/24/2003 5:23:21 PM

Sample Prep Volume:
Data Type: Original

Mean Data: LCS-5284,5284

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	291850.9	1.0747	mg/L	0.02571	1.0747	mg/L	0.02571	2.39%
Al 308.215	490858.4	8.5041	mg/L	0.04674	8.5041	mg/L	0.04674	0.55%
As 188.979	1054.5	0.4563	mg/L	0.00203	0.4563	mg/L	0.00203	0.45%
Ba 233.527	928899.0	9.1510	mg/L	0.18018	9.1516	mg/L	0.18018	1.97%
Be 313.107	2308001.0	0.2252	mg/L	0.00474	0.2252	mg/L	0.00474	2.11%
Co 228.616	79736.6	2.1670	mg/L	0.02377	2.1676	mg/L	0.02377	1.10%
Cr 267.716	358912.0	0.9016	mg/L	0.00696	0.9016	mg/L	0.00696	0.77%
Cu 324.752	667826.3	1.1437	mg/L	0.02674	1.1437	mg/L	0.02674	2.34%
Fe 273.955	268480.8	4.5158	mg/L	0.03742	4.5158	mg/L	0.03742	0.83%

Mg 279.077	1155009.4	22.469	mg/L	0.4088	22.469	mg/L	0.4088 1.82%
Mn 257.610	1185374.1	2.3437	mg/L	0.04335	2.3437	mg/L	0.04335 1.85%
Ni 231.604	192046.5	2.3225	mg/L	0.01440	2.3225	mg/L	0.01440 0.62%
Pb 220.353	10685.1	0.4636	mg/L	0.00239	0.4636	mg/L	0.00239 0.51%
Sb 206.836	1876.5	0.4805	mg/L	0.00675	0.4805	mg/L	0.00675 1.41%
Se 196.026	1197.7	0.4364	mg/L	0.00416	0.4364	mg/L	0.00416 0.95%
Tl 190.801	1395.5	0.4736	mg/L	0.00116	0.4736	mg/L	0.00116 0.25%
V 292.402	972145.5	2.2346	mg/L	0.04698	2.2346	mg/L	0.04698 2.10%
Zn 206.200	252279.3	2.2464	mg/L	0.02200	2.2464	mg/L	0.02200 0.98%
Na 330.237	51540.9	20.910	mg/L	0.1856	20.910	mg/L	0.1856 0.89%
Cd 226.502	94838.4	0.2299	mg/L	0.00187	0.2299	mg/L	0.00187 0.81%
Ti 334.940	2146.6	0.0015	mg/L	0.00033	0.0015	mg/L	0.00033 22.26%
Ca 227.546	17267.6	22.027	mg/L	0.9686	22.027	mg/L	0.0686 0.31%

Sequence No.: 7
Sample ID: B0095-16A,5284
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 19
Date Collected: 1/24/2003 5:27:32 PM

Sample Prep Volume:
Data Type: Original

Mean Data: B0095-16A,5284

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	-16371.7	-0.0010	mg/L	0.00018	-0.0010	mg/L	0.00018	18.22%
Al 308.215	15282783.7	264.77	mg/L	0.227	264.77	mg/L	0.227	0.09%
As 188.979	135.6	0.1367	mg/L	0.00265	0.1367	mg/L	0.00265	1.94%
Ba 233.527	69816.7	0.6726	mg/L	0.00916	0.6726	mg/L	0.00916	1.36%
Be 313.107	-30146.0	0.0073	mg/L	0.00001	0.0073	mg/L	0.00001	0.16%
Co 228.616	15858.6	0.4137	mg/L	0.00539	0.4137	mg/L	0.00539	1.30%
Cr 267.716	1646818.0	4.1370	mg/L	0.01832	4.1370	mg/L	0.01832	0.44%
Cu 324.752	9306600.6	16.014	mg/L	0.0099	16.014	mg/L	0.0099	0.06%
•Fe 273.955	20906872.2	351.65	mg/L	0.279	351.65	mg/L	0.279	0.08%
Mg 279.077	4378757.4	124.04	mg/L	0.478	124.04	mg/L	0.478	0.39%
Mn 257.610	2058203.8	4.0756	mg/L	0.01667	4.0756	mg/L	0.01667	0.41%
Ni 231.604	53457.8	0.6433	mg/L	0.00569	0.6433	mg/L	0.00569	0.89%
Pb 220.353	41997.6	1.8494	mg/L	0.01562	1.8494	mg/L	0.01562	0.84%
Sb 206.836	538.0	0.1583	mg/L	0.00214	0.1583	mg/L	0.00214	1.35%
Se 196.026	-270.3	-0.0153	mg/L	0.00556	-0.0153	mg/L	0.00556	36.42%
Tl 190.801	-93.6	0.0061	mg/L	0.00771	0.0061	mg/L	0.00771	127.27%
V 292.402	324089.2	0.7445	mg/L	0.00371	0.7445	mg/L	0.00371	0.50%
Zn 206.200	129117.3	1.1374	mg/L	0.00341	1.1374	mg/L	0.00241	0.30%
Na 330.237	361563.4	149.96	mg/L	0.888	149.96	mg/L	0.888	0.59%
Cd 226.502	11236.2	0.0136	mg/L	0.00007	0.0136	mg/L	0.00007	0.54%
Ti 334.940	14383402.1	9.9678	mg/L	0.00570	9.9678	mg/L	0.00970	0.06%
Ca 227.546	114839.9	144.85	mg/L	2.008	144.85	mg/L	2.008	1.39%

Sequence No.: 8
Sample ID: B0089-01A,5284
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 20
Date Collected: 1/24/2003 5:30:20 PM

Sample Prep Volume:
Data Type: Original

Mean Data: B0089-01A,5284

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	-2486.6	0.0016	mg/L	0.00043	0.0016	mg/L	0.00043	27.53%
Al 308.215	10133429.4	175.56	mg/L	0.923	175.56	mg/L	0.923	0.53%
As 188.979	86.5	0.0441	mg/L	0.00018	0.0441	mg/L	0.00018	0.41%
Ba 233.527	119718.9	1.1765	mg/L	0.00140	1.1765	mg/L	0.00140	0.12%
Be 313.107	52729.8	0.0063	mg/L	0.00000	0.0063	mg/L	0.00000	0.65%
Co 228.616	1079.5	0.0275	mg/L	0.00006	0.0275	mg/L	0.00006	0.23%
Cr 267.716	53267.2	0.1343	mg/L	0.00007	0.1343	mg/L	0.00007	0.05%
Cu 324.752	52467.3	0.0962	mg/L	0.00544	0.0962	mg/L	0.00544	5.66%
Fe 273.955	3542801.7	59.590	mg/L	0.3396	59.590	mg/L	0.3396	0.57%
Mg 279.077	583572.9	11.351	mg/L	0.0573	11.351	mg/L	0.0573	0.50%
Mn 257.610	456428.0	0.9047	mg/L	0.00291	0.9047	mg/L	0.00291	0.32%
Ni 231.604	8144.5	0.0981	mg/L	0.00003	0.0981	mg/L	0.00003	0.03%

Pb 220.353	3412.1	0.1619	mg/L	0.00026	0.1619	mg/L	0.00026 0.16%
Sb 206.836	5.5	0.0058	mg/L	0.00008	0.0058	mg/L	0.00008 1.33%
Se 196.026	-30.7	0.0030	mg/L	0.00150	0.0030	mg/L	0.00150 49.28%
Tl 190.801	-17.9	-0.0017	mg/L	0.00002	-0.0017	mg/L	0.00002 1.23%
V 292.402	88162.3	0.2017	mg/L	0.00049	0.2017	mg/L	0.00049 0.24%
Zn 206.200	26941.5	0.2378	mg/L	0.00092	0.2378	mg/L	0.00092 0.39%
Na 330.237	1526.8	1.0104	mg/L	0.02236	1.0104	mg/L	0.02236 2.21%
Cd 226.502	1202.8	0.0006	mg/L	0.00005	0.0006	mg/L	0.00005 8.19%
Ti 334.940	1649889.9	1.1434	mg/L	0.00831	1.1434	mg/L	0.00831 0.73%
Ca 227.546	2886.3	3.2756	mg/L	0.00866	3.2756	mg/L	0.00866 0.26%

Sequence No.: 9
Sample ID: B0089-17B,5284
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 21
Date Collected: 1/24/2003 5:34:34 PM

Sample Prep Volume:
Data Type: Original

Mean Data: B0089-17B,5284

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	-5274.6	0.0024	mg/L	0.00001	0.0024	mg/L	0.00001	0.62%
Al 308.215	8675089.4	150.30	mg/L	0.533	150.30	mg/L	0.533	0.35%
As 188.979	108.4	0.0600	mg/L	0.00017	0.0600	mg/L	0.00017	0.29%
Ba 233.527	108572.7	1.0640	mg/L	0.01854	1.0640	mg/L	0.01854	1.74%
Be 313.107	59281.8	0.0077	mg/L	0.00007	0.0077	mg/L	0.00007	0.94%
Co 228.616	1690.7	0.0421	mg/L	0.00033	0.0421	mg/L	0.00033	0.78%
Cr 267.716	568844.4	0.1436	mg/L	0.00255	0.1436	mg/L	0.00255	1.77%
Cu 324.752	923666.6	1.5973	mg/L	0.02695	1.5973	mg/L	0.02695	1.69%
Fe 273.955	7254954.2	122.03	mg/L	0.590	122.03	mg/L	0.590	0.48%
Mg 279.077	865274.3	16.840	mg/L	0.2746	16.840	mg/L	0.2746	1.63%
Mn 257.610	1630439.5	3.2269	mg/L	0.04911	3.2269	mg/L	0.04911	1.52%
Ni 231.604	9081.2	0.1090	mg/L	0.00049	0.1090	mg/L	0.00049	0.45%
Pb 220.353	8340.2	0.3747	mg/L	0.00066	0.3747	mg/L	0.00066	0.18%
Sb 206.836	5.8	0.0090	mg/L	0.00000	0.0090	mg/L	0.00000	0.06%
Se 196.026	-71.4	0.0017	mg/L	0.00025	0.0017	mg/L	0.00025	15.25%
Tl 190.801	-64.3	-0.0041	mg/L	0.00026	-0.0041	mg/L	0.00026	6.37%
V 292.402	117519.4	0.2683	mg/L	0.00478	0.2683	mg/L	0.00478	1.78%
Zn 206.200	72036.0	0.6375	mg/L	0.00915	0.6375	mg/L	0.00915	1.44%
Na 330.237	2123.4	1.5345	mg/L	0.01921	1.5345	mg/L	0.01921	1.25%
Cd 226.502	3238.8	0.0031	mg/L	0.00015	0.0031	mg/L	0.00015	4.83%
Ti 334.940	2698651.2	1.8701	mg/L	0.00570	1.8701	mg/L	0.00570	0.30%
Ca 227.546	4931.5	5.3348	mg/L	0.00571	5.3348	mg/L	0.00571	0.11%

Sequence No.: 10
Sample ID: B0089-18B,5284
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 22
Date Collected: 1/24/2003 5:38:49 PM

Sample Prep Volume:
Data Type: Original

Mean Data: B0089-18B,5284

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	-1122.4	0.0046	mg/L	0.00007	0.0046	mg/L	0.00007	1.54%
Al 308.215	10401787.0	180.21	mg/L	0.255	180.21	mg/L	0.255	0.14%
As 188.979	71.5	0.0479	mg/L	0.00007	0.0479	mg/L	0.00007	0.14%
Ba 233.527	67795.3	0.6613	mg/L	0.00016	0.6613	mg/L	0.00016	0.02%
Be 313.107	19318.7	0.0045	mg/L	0.00003	0.0045	mg/L	0.00003	0.77%
Co 228.616	1840.5	0.0450	mg/L	0.00028	0.0450	mg/L	0.00028	0.63%
Cr 267.716	68831.3	0.1744	mg/L	0.00075	0.1744	mg/L	0.00075	0.43%
Cu 324.752	1037485.6	1.7984	mg/L	0.00470	1.7984	mg/L	0.00470	0.26%
Fe 273.955	8957464.6	150.66	mg/L	0.589	150.66	mg/L	0.589	0.39%
Mg 279.077	865318.0	16.832	mg/L	0.0906	16.832	mg/L	0.0906	0.54%
Mn 257.610	718670.3	1.4247	mg/L	0.00618	1.4247	mg/L	0.00618	0.43%
Ni 231.604	10122.7	0.1216	mg/L	0.00066	0.1216	mg/L	0.00066	0.55%
Pb 220.353	2364.4	0.1195	mg/L	0.00070	0.1195	mg/L	0.00070	0.58%
Sb 206.836	-1.9	0.0092	mg/L	0.00036	0.0092	mg/L	0.00036	3.93%
Se 196.026	-102.2	-0.0010	mg/L	0.00004	-0.0010	mg/L	0.00004	3.56%

Tl 190.801	-37.1	-0.0013	mg/L	0.00126	-0.0013	mg/L	0.00126 99.86%
V 292.402	120174.1	0.2738	mg/L	0.00033	0.2738	mg/L	0.00033 0.12%
Zn 206.200	62460.8	0.5518	mg/L	0.00267	0.5518	mg/L	0.00267 0.48%
Na 330.237	1057.5	1.3288	mg/L	0.00742	1.3288	mg/L	0.00742 0.56%
Cd 226.502	3439.5	0.0025	mg/L	0.00015	0.0025	mg/L	0.00015 6.00%
Ti 334.940	3620278.1	2.5088	mg/L	0.01307	2.5088	mg/L	0.01307 0.52%
Ca 227.546	2679.5	2.1930	mg/L	0.00547	2.1930	mg/L	0.00547 0.25%

Sequence No.: 11
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 1/24/2003 5:43:04 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	329289.2	1.2175	mg/L	0.01100	1.2175	mg/L	0.01100	0.90%
Al 308.215	570457.7	9.8831	mg/L	0.07595	9.8831	mg/L	0.07595	0.77%
As 188.979	1177.0	0.5094	mg/L	0.00012	0.5094	mg/L	0.00012	0.02%
Ba 233.527	1069546.7	10.536	mg/L	0.0693	10.536	mg/L	0.0693	0.66%
Be 313.107	2622373.2	0.2559	mg/L	0.00098	0.2559	mg/L	0.00098	0.38%
Co 228.616	91068.5	2.4749	mg/L	0.01935	2.4749	mg/L	0.01935	0.78%
Cr 267.716	498174.6	1.0246	mg/L	0.00690	1.0246	mg/L	0.00690	0.67%
Cu 324.752	751218.3	1.2865	mg/L	0.00893	1.2865	mg/L	0.00693	0.69%
Fe 273.955	305725.3	5.1423	mg/L	0.02502	5.1423	mg/L	0.02502	0.49%
Mg 279.077	1325725.4	25.789	mg/L	0.1970	25.789	mg/L	0.1970	0.76%
Mn 257.610	1335054.4	2.6397	mg/L	0.01491	2.6397	mg/L	0.01491	0.56%
Ni 231.604	223801.7	2.7065	mg/L	0.01013	2.7065	mg/L	0.01013	0.37%
Pb 220.353	11752.1	0.5099	mg/L	0.00003	0.5099	mg/L	0.00003	0.01%
Sb 206.836	1883.3	0.4826	mg/L	0.00590	0.4826	mg/L	0.00590	1.22%
Se 196.026	1426.4	0.5199	mg/L	0.00139	0.5199	mg/L	0.00139	0.27%
Tl 190.801	1566.6	0.5317	mg/L	0.00097	0.5317	mg/L	0.00097	0.18%
V 292.402	1094913.1	2.5168	mg/L	0.02081	2.5168	mg/L	0.02081	0.83%
Zn 206.200	294325.7	2.6208	mg/L	0.02573	2.6208	mg/L	0.02573	0.98%
Na 330.237	61495.7	24.952	mg/L	0.1245	24.952	mg/L	0.1245	0.50%
Cd 226.502	107188.1	0.2598	mg/L	0.00146	0.2598	mg/L	0.00146	0.56%
Ti 334.940	2579.9	0.0018	mg/L	0.00004	0.0018	mg/L	0.00004	2.22%
Ca 227.546	19448.6	24.895	mg/L	0.0582	24.895	mg/L	0.0582	0.23%

Analysis Begun

Start Time: 1/24/2003 5:46:36 PM
Logged In Analyst: optima2
Spectrometer Model: Optima 3100 XL

Plasma On Time: 1/24/2003 11:22:28 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\pe\administrator\Sample Information\Evan.sif
Results Data Set: A012403
Results Library: d:\pe\administrator\Results\Results.mdb

Sequence No.: 86
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 1/24/2003 5:46:36 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	49.4	0.0002	mg/L	0.00049	0.0002	mg/L	0.00049	259.09%
Al 308.215	-627.1	-0.0109	mg/L	0.00263	-0.0109	mg/L	0.00263	24.19%
As 188.979	1.7	0.0007	mg/L	0.00106	0.0007	mg/L	0.00106	145.02%
Ba 233.527	210.4	0.0021	mg/L	0.00027	0.0021	mg/L	0.00027	13.15%
Be 313.107	1269.8	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	12.80%
Co 228.616	17.0	0.0005	mg/L	0.00027	0.0005	mg/L	0.00027	58.59%
Cr 267.716	1.2	0.0000	mg/L	0.00012	0.0000	mg/L	0.00012	>999.99%

Cu 324.752	2826.8	0.0049 mg/L	0.00092	0.0049 mg/L	0.00092	18.96%
Fe 273.955	747.2	0.0126 mg/L	0.00074	0.0126 mg/L	0.00074	5.92%
Mg 279.077	-1156.6	-0.0225 mg/L	0.00038	-0.0225 mg/L	0.00038	1.70%
Mn 257.610	226.0	0.0004 mg/L	0.00005	0.0004 mg/L	0.00005	10.79%
Ni 231.604	30.8	0.0004 mg/L	0.00016	0.0004 mg/L	0.00016	44.22%
Pb 220.353	6.3	0.0003 mg/L	0.00051	0.0003 mg/L	0.00051	185.94%
Sb 206.836	24.4	0.0062 mg/L	0.00152	0.0062 mg/L	0.00152	24.52%
Se 196.026	0.3	0.0001 mg/L	0.00065	0.0001 mg/L	0.00065	45.82%
Tl 190.801	2.3	0.0008 mg/L	0.00106	0.0008 mg/L	0.00106	135.24%
V 292.402	217.8	0.0005 mg/L	0.00000	0.0005 mg/L	0.00000	0.79%
Zn 206.200	852.1	0.0076 mg/L	0.00175	0.0076 mg/L	0.00175	23.09%
Na 330.237	169.3	0.0689 mg/L	0.02147	0.0689 mg/L	0.02147	31.16%
Cd 226.502	15.8	0.0000 mg/L	0.00000	0.0000 mg/L	0.00000	3.23%
Tl 334.940	247.3	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	25.32%
Ca 227.546	-7.4	-0.0098 mg/L	0.01066	-0.0098 mg/L	0.01066	108.75%

000 61

Analysis Begun

Start Time: 1/24/2003 5:50:05 PM
Logged In Analyst: optima2
Spectrometer Model: Optima 3100 XL

Plasma On Time: 1/24/2003 11:22:28 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\pe\administrator\Sample Information\TEST.sif
Results Data Set: A012403
Results Library: d:\pe\administrator\Results\Results.mdb

Sequence No.: 1
Sample ID: B0114-01A,5284
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 23
Date Collected: 1/24/2003 5:50:05 PM

Sample Prep Volume:
Data Type: Original

Mean Data: B0114-01A,5284

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	-7512.1	0.0037	mg/L	0.00029	0.0037	mg/L	0.00028	8.01%
Al 308.215	9167756.1	158.83	mg/L	2.192	158.83	mg/L	2.192	1.38%
As 188.979	27.6	0.0334	mg/L	0.00436	0.0334	mg/L	0.00436	13.06%
Ba 233.527	51106.3	0.4958	mg/L	0.00182	0.4958	mg/L	0.00182	0.37%
Be 313.107	-254437.8	0.0048	mg/L	0.00007	0.0048	mg/L	0.00007	1.40%
Co 228.616	2697.5	0.0616	mg/L	0.00025	0.0616	mg/L	0.00025	0.40%
Cr 267.716	61156.1	0.1551	mg/L	0.00013	0.1551	mg/L	0.00013	0.08%
Cu 324.752	44082.4	0.0900	mg/L	0.00130	0.0900	mg/L	0.00130	1.45%
Fe 273.955	10378390.8	174.56	mg/L	1.483	174.56	mg/L	1.483	0.85%
Mg 279.077	1557583.9	30.301	mg/L	0.0554	30.301	mg/L	0.0554	0.02%
Mn 257.610	1667279.9	3.3005	mg/L	0.00639	3.3005	mg/L	0.00639	0.19%
Ni 231.604	8446.4	0.0998	mg/L	0.00212	0.0998	mg/L	0.00212	2.12%
Pb 220.353	3457.5	0.1680	mg/L	0.00043	0.1680	mg/L	0.00043	0.26%
Sb 206.836	12.9	0.0173	mg/L	0.00299	0.0173	mg/L	0.00299	17.25%
Se 196.026	-147.6	-0.0139	mg/L	0.00955	-0.0139	mg/L	0.00955	68.88%
Tl 190.801	-68.5	0.0046	mg/L	0.00988			0.00988	216.16%
V 292.402	129264.6	0.2919	mg/L	0.00068	0.2919	mg/L	0.00068	0.23%
Zn 206.200	44129.1	0.3831	mg/L	0.00464	0.3831	mg/L	0.00464	1.21%
Na 330.237	-3104.3	0.8482	mg/L	0.07788	0.8482	mg/L	0.07788	9.18%
Cd 226.502	4274.1	0.0036	mg/L	0.00002	0.0036	mg/L	0.00002	0.55%
Tl 334.940	10218032.8	7.0810	mg/L	0.07771	7.0810	mg/L	0.07771	1.10%
Ca 227.546	6764.8	7.2693	mg/L	0.18903	7.2693	mg/L	0.18903	2.60%

Sequence No.: 2
Sample ID: B0114-01ADUP,5184
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 24
Date Collected: 1/24/2003 5:52:53 PM

Sample Prep Volume:
Data Type: Original

Mean Data: B0114-01ADUP,5184

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	-8623.3	0.0046	mg/L	0.00058	0.0046	mg/L	0.00058	12.57%
Al 308.215	9826249.7	170.24	mg/L	0.390	170.24	mg/L	0.390	0.23%
As 188.979	55.3	0.0483	mg/L	0.00648	0.0483	mg/L	0.00648	13.40%
Ba 233.527	55961.4	0.5424	mg/L	0.00483	0.5424	mg/L	0.00483	0.89%
Be 313.107	-27885.5	0.0052	mg/L	0.00006	0.0052	mg/L	0.00006	1.12%
Co 228.616	3286.9	0.0765	mg/L	0.00059	0.0765	mg/L	0.00059	0.77%
Cr 267.716	69665.3	0.1767	mg/L	0.00204	0.1767	mg/L	0.00204	1.15%
Cu 324.752	45269.0	0.0942	mg/L	0.00144	0.0942	mg/L	0.00144	1.53%
Fe 273.955	12039053.7	202.50	mg/L	0.479	202.50	mg/L	0.479	0.24%
Mg 279.077	1945212.7	37.843	mg/L	0.3623	37.843	mg/L	0.3623	0.96%
Mn 257.610	2176127.5	4.3071	mg/L	0.04731	4.3071	mg/L	0.04731	1.10%
Ni 231.604	10424.7	0.1235	mg/L	0.00027	0.1235	mg/L	0.00027	0.22%
Pb 220.353	3644.9	0.1777	mg/L	0.00226	0.1777	mg/L	0.00226	1.27%
Sb 206.836	4.2	0.0168	mg/L	0.00439	0.0168	mg/L	0.00439	26.15%

000 62

Se 196.026	-155.7	-0.0107 mg/L	0.00043	-0.0107 mg/L	0.00043	4.01%
Tl 190.801	-96.2	0.0011 mg/L	0.00471	0.0011 mg/L	0.00471	427.67%
V 292.402	141161.8	0.3188 mg/L	0.00329	0.3188 mg/L	0.00329	1.03%
Zn 206.200	53886.6	0.4687 mg/L	0.00394	0.4687 mg/L	0.00394	0.84%
Na 330.237	-3140.9	1.0194 mg/L	0.09125	1.0194 mg/L	0.09125	8.95%
Cd 226.502	5048.8	0.0043 mg/L	0.00006	0.0043 mg/L	0.00006	1.28%
Tl 334.940	11026298.1	7.6433 mg/L	0.01455	7.6433 mg/L	0.01455	0.19%
Ca 227.546	8347.9	9.0723 mg/L	0.01861	9.0723 mg/L	0.01861	0.21%

Sequence No.: 3
Sample ID: B0114-01AMS,5284
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 25
Date Collected: 1/24/2003 5:55:31 PM

Sample Prep Volume:
Data Type: Original

Mean Data: B0114-01AMS,5284

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	277304.4	1.0940	mg/L	0.00028	1.0940	mg/L	0.00028	0.03%
Al 308.215	11561118.4	200.30	mg/L	2.552	200.30	mg/L	2.552	1.27%
As 188.979	1034.9	0.4720	mg/L	0.00850	0.4720	mg/L	0.00850	1.80%
Ba 233.527	969055.6	9.4493	mg/L	0.01209	9.4493	mg/L	0.01209	0.13%
Be 313.107	2282089.2	0.2304	mg/L	0.00039	0.2304	mg/L	0.00039	0.17%
Co 228.616	52233.6	2.2224	mg/L	0.00127	2.2224	mg/L	0.00127	0.06%
Cr 267.716	420913.7	1.0585	mg/L	0.00086	1.0585	mg/L	0.00086	0.08%
Cu 324.752	735653.3	1.2770	mg/L	0.00372	1.2770	mg/L	0.00372	0.29%
Fe 273.955	12083075.7	203.41	mg/L	2.096	203.41	mg/L	2.096	1.03%
Mg 279.077	3369618.7	65.546	mg/L	0.0486	65.546	mg/L	0.0486	0.07%
Mn 257.610	3033984.5	6.0032	mg/L	0.00892	6.0032	mg/L	0.00892	0.15%
Ni 231.604	202816.8	2.4502	mg/L	0.00392	2.4502	mg/L	0.00392	0.16%
Pb 220.353	14028.4	0.6297	mg/L	0.00300	0.6297	mg/L	0.00300	0.48%
Sb 206.836	978.4	0.2676	mg/L	0.00912	0.2676	mg/L	0.00912	3.41%
Se 196.026	970.1	0.3892	mg/L	0.00724	0.3892	mg/L	0.00724	1.61%
Tl 190.801	1213.7	0.4627	mg/L	0.00913	0.4627	mg/L	0.00913	1.97%
V 292.402	1108535.6	2.5425	mg/L	0.00135	2.5425	mg/L	0.00135	0.05%
Zn 206.200	304872.0	2.7036	mg/L	0.00043	2.7036	mg/L	0.00043	0.02%
Na 330.237	52189.8	23.424	mg/L	0.0202	23.424	mg/L	0.0202	0.09%
Cd 226.502	99409.3	0.2332	mg/L	0.00060	0.2332	mg/L	0.00060	0.26%
Tl 334.940	10815738.6	7.4952	mg/L	0.09187	7.4952	mg/L	0.09187	1.23%
Ca 227.546	29060.3	35.659	mg/L	0.3359	35.659	mg/L	0.3359	0.94%

Sequence No.: 4
Sample ID: B0114-01APDS,5284
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 26
Date Collected: 1/24/2003 5:58:13 PM

Sample Prep Volume:
Data Type: Original

Mean Data: B0114-01APDS,5284

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	262713.5	1.0328	mg/L	0.01475	1.0328	mg/L	0.01475	1.43%
Al 308.215	9512955.5	164.81	mg/L	0.353	164.81	mg/L	0.353	0.21%
As 188.979	1045.1	0.4732	mg/L	0.01524	0.4732	mg/L	0.01524	3.22%
Ba 233.527	963220.7	9.4818	mg/L	0.09212	9.4818	mg/L	0.69212	0.97%
Be 313.107	2279151.1	0.2295	mg/L	0.00020	0.2295	mg/L	0.00020	0.09%
Co 228.616	81935.5	2.2154	mg/L	0.02474	2.2154	mg/L	0.02474	1.12%
Cr 267.716	419381.2	1.0543	mg/L	0.00846	1.0543	mg/L	0.00846	0.80%
Cu 324.752	733145.1	1.2696	mg/L	0.01484	1.2696	mg/L	0.01484	1.17%
Fe 273.955	10219360.5	171.89	mg/L	0.093	171.89	mg/L	0.093	0.05%
Mg 279.077	2649634.3	51.544	mg/L	0.2899	51.544	mg/L	0.2899	0.56%
Mn 257.610	2738353.0	5.4181	mg/L	0.00607	5.4181	mg/L	0.00607	0.11%
Ni 231.604	204010.3	2.4649	mg/L	0.01626	2.4649	mg/L	0.01626	0.66%
Pb 220.353	13526.0	0.6045	mg/L	0.00832	0.6045	mg/L	0.00832	1.38%
Sb 206.836	1751.8	0.4622	mg/L	0.01561	0.4622	mg/L	0.01361	3.38%
Se 196.026	1066.7	0.4271	mg/L	0.00394	0.4271	mg/L	0.00394	0.92%
Tl 190.801	1289.1	0.4641	mg/L	0.00993	0.4641	mg/L	0.00993	2.14%
V 292.402	1083861.7	2.4864	mg/L	0.02181	2.4864	mg/L	0.02181	0.88%

000 63

Zn 206.200	296293.5	2.6288 mg/L	0.01710	2.6288 mg/L	0.01710	0.65%
Na 330.237	51923.7	23.112 mg/L	0.2881	23.112 mg/L	0.2881	1.25%
Cd 226.502	97542.6	0.2299 mg/L	0.00211	0.2299 mg/L	0.00211	0.92%
Tl 334.940	9921946.8	6.8758 mg/L	0.00842	6.8758 mg/L	0.00842	0.12%
Ca 227.546	23724.5	29.038 mg/L	0.9921	29.038 mg/L	0.9921	3.42%

Sequence No.: 5
Sample ID: B0114-02A,5284
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 27
Date Collected: 1/24/2003 6:00:49 PM

Sample Prep Volume:
Data Type: Original

Mean Data: B0114-02A,5284

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	-11823.4	0.0064	mg/L	0.00008	0.0064	mg/L	0.00008	1.27%
Al 308.215	9852641.2	170.70	mg/L	0.534	170.70	mg/L	0.534	0.31%
As 188.979	11.5	0.0401	mg/L	0.01349	0.0401	mg/L	0.01349	33.63%
Ba 233.527	53008.9	0.5094	mg/L	0.00096	0.5094	mg/L	0.00096	0.19%
Be 313.107	-35579.0	0.0071	mg/L	0.00001	0.0071	mg/L	0.00001	0.18%
Co 228.616	5430.5	0.1301	mg/L	0.00037	0.1301	mg/L	0.00037	0.29%
Cr 267.716	156484.2	0.3939	mg/L	0.00062	0.3939	mg/L	0.00062	0.16%
Cu 324.752	94664.6	0.1768	mg/L	0.00096	0.1768	mg/L	0.00096	0.54%
Fe 273.955	16574939.5	278.79	mg/L	0.459	278.79	mg/L	0.459	0.16%
Mg 279.077	4119861.8	80.168	mg/L	0.2339	80.168	mg/L	0.2339	0.29%
Mn 257.610	6480074.6	12.818	mg/L	0.0301	12.818	mg/L	0.0301	0.24%
Ni 231.604	24436.0	0.2914	mg/L	0.00044	0.2914	mg/L	0.00044	0.15%
Pb 220.353	8724.8	0.3993	mg/L	0.00063	0.3993	mg/L	0.00063	0.16%
Sb 206.836	20.3	0.0251	mg/L	0.00312	0.0251	mg/L	0.00312	12.43%
Se 196.026	-204.1	-0.0166	mg/L	0.00106	-0.0166	mg/L	0.00106	6.37%
Tl 190.801	-253.8	-0.0089	mg/L	0.01309	-0.0089	mg/L	0.01309	146.59%
V 292.402	168041.1	0.3794	mg/L	0.00006	0.3794	mg/L	0.00006	0.02%
Zn 206.200	91318.5	0.7042	mg/L	0.00222	0.7042	mg/L	0.00222	0.32%
Na 330.237	-4373.9	1.2780	mg/L	0.09780	1.2780	mg/L	0.09780	0.61%
Cd 226.502	7273.7	0.0068	mg/L	0.00003	0.0068	mg/L	0.00003	0.43%
Tl 334.940	14826536.4	10.275	mg/L	0.0223	10.275	mg/L	0.0223	0.22%
Ca 227.546	15304.2	17.373	mg/L	0.1708	17.373	mg/L	0.1708	0.98%

Sequence No.: 6
Sample ID: B0114-03A,5284
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 28
Date Collected: 1/24/2003 6:03:32 PM

Sample Prep Volume:
Data Type: Original

Mean Data: B0114-03A,5284

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	-7295.3	0.0035	mg/L	0.00000	0.0035	mg/L	0.00000	0.00%
Al 308.215	7484245.7	129.66	mg/L	2.132	129.66	mg/L	2.132	1.64%
As 188.979	32.5	0.0345	mg/L	0.01503	0.0345	mg/L	0.01503	43.52%
Ba 233.527	40887.5	0.3952	mg/L	0.00480	0.3952	mg/L	0.00480	1.22%
Be 313.107	-26971.6	0.0043	mg/L	0.00003	0.0043	mg/L	0.00003	0.68%
Co 228.616	3110.8	0.0733	mg/L	0.00085	0.0733	mg/L	0.00085	1.16%
Cr 267.716	46498.4	0.1181	mg/L	0.00093	0.1181	mg/L	0.00093	0.78%
Cu 324.752	58755.7	0.1137	mg/L	0.00052	0.1137	mg/L	0.00052	0.46%
Fe 273.955	10111052.9	170.07	mg/L	2.152	170.07	mg/L	2.152	1.27%
Mg 279.077	1698121.2	33.038	mg/L	0.1723	33.038	mg/L	0.1723	0.52%
Mn 257.610	2194400.1	4.1644	mg/L	0.03036	4.1644	mg/L	0.03036	0.73%
Ni 231.604	9229.5	0.1093	mg/L	0.00011	0.1093	mg/L	0.00011	0.10%
Pb 220.353	3263.9	0.1572	mg/L	0.00050	0.1572	mg/L	0.00050	0.32%
Sb 206.836	-5.2	0.0120	mg/L	0.00193	0.0120	mg/L	0.00193	16.16%
Se 196.026	-116.1	-0.0042	mg/L	0.00273	-0.0042	mg/L	0.00273	65.73%
Tl 190.801	-98.7	-0.0019	mg/L	0.00413	-0.0019	mg/L	0.00413	214.65%
V 292.402	106493.3	0.2398	mg/L	0.00062	0.2398	mg/L	0.00062	0.26%
Zn 206.200	46318.7	0.4026	mg/L	0.00128	0.4026	mg/L	0.00128	0.32%
Na 330.237	-2430.0	1.0223	mg/L	0.08800	1.0223	mg/L	0.08800	8.61%
Cd 226.502	4363.5	0.0039	mg/L	0.00017	0.0039	mg/L	0.00017	4.29%

000 63A

Ti 334.940	9753772.6	6.7593 mg/L	0.09403	6.7593 mg/L	0.09403	1.39%
Ca 227.546	10118.9	11.621 mg/L	0.1217	11.621 mg/L	0.1217	1.05%

Sequence No.: 7
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 1/24/2003 6:06:06 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	-6733.6	-0.0057	mg/L	0.00040	-0.0057	mg/L	0.00040	7.01%
Al 308.215	26767519.3	463.75	mg/L	3.202	463.75	mg/L	3.202	0.69%
As 188.979	-43.3	-0.0025	mg/L	0.00421	-0.0025	mg/L	0.00421	168.77%
Ba 233.527	877.4	-0.0002	mg/L	0.00006	-0.0002	mg/L	0.00006	33.53%
Be 313.107	2268.4	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	5.45%
Co 228.616	-109.4	-0.0039	mg/L	0.00028	-0.0039	mg/L	0.00028	7.29%
Cr 267.716	-740.5	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	21.22%
Cu 324.752	-9582.8	0.0049	mg/L	0.00021	0.0049	mg/L	0.00021	4.23%
Fe 273.955	9816947.2	165.12	mg/L	0.911	165.12	mg/L	0.911	0.55%
Mg 279.077	23509418.4	457.09	mg/L	2.738	457.09	mg/L	2.738	0.60%
Mn 257.610	-10839.7	-0.0227	mg/L	0.00022	-0.0227	mg/L	0.00022	0.96%
Ni 231.604	121.4	0.0015	mg/L	0.00016	0.0015	mg/L	0.00016	10.86%
Pb 220.353	-753.2	0.0035	mg/L	0.00152	0.0035	mg/L	0.00162	46.13%
Sb 206.836	-33.6	0.0012	mg/L	0.00872	0.0012	mg/L	0.00872	727.07%
Se 196.026	-180.2	-0.0220	mg/L	0.00970	-0.0220	mg/L	0.00970	44.06%
Tl 190.801	1.7	0.0010	mg/L	0.00381	0.0010	mg/L	0.00381	383.35%
V 292.402	0.7	-0.0014	mg/L	0.00008	-0.0014	mg/L	0.00008	5.73%
Zn 206.200	2098.6	-0.0049	mg/L	0.00002	-0.0049	mg/L	0.00002	0.45%
Na 330.237	1142.5	0.2228	mg/L	0.09184	0.2228	mg/L	0.09184	41.23%
Cd 226.502	4230.0	0.0039	mg/L	0.00029	0.0039	mg/L	0.00029	7.36%
Tl 334.940	9721.4	0.0102	mg/L	0.00004	0.0102	mg/L	0.00004	0.35%
Ca 227.546	383232.6	492.91	mg/L	5.941	492.91	mg/L	5.941	1.21%

Sequence No.: 8
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 1/24/2003 6:08:44 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	4076.7	0.1965	mg/L	0.00070	0.1965	mg/L	0.00070	0.35%
Al 308.215	28633566.9	496.07	mg/L	1.888	496.07	mg/L	1.888	0.38%
As 188.979	197.4	0.1054	mg/L	0.00837	0.1054	mg/L	0.00837	7.94%
Ba 233.527	53064.3	0.5143	mg/L	0.00143	0.5143	mg/L	0.00143	0.28%
Be 313.107	52430977.6	0.5114	mg/L	0.00155	0.5114	mg/L	0.00155	0.30%
Co 228.616	16336.9	0.4430	mg/L	0.00455	0.4430	mg/L	0.00455	1.03%
Cr 267.716	1993332.3	0.5025	mg/L	0.00089	0.5025	mg/L	0.00089	0.18%
Cu 324.752	314633.8	0.5619	mg/L	0.00278	0.5619	mg/L	0.00278	0.49%
Fe 273.955	10402611.7	174.97	mg/L	0.405	174.97	mg/L	0.405	0.23%
Mg 279.077	24946925.8	485.04	mg/L	0.918	485.04	mg/L	0.918	0.19%
Mn 257.610	254603.5	0.5022	mg/L	0.00158	0.5022	mg/L	0.00158	0.32%
Ni 231.604	82592.2	0.9989	mg/L	0.00297	0.9989	mg/L	0.00297	0.30%
Pb 220.353	9880.7	0.4665	mg/L	0.00226	0.4665	mg/L	0.00226	0.48%
Sb 206.836	2394.3	0.6197	mg/L	0.01095	0.6197	mg/L	0.01095	1.77%
Se 196.026	1339.3	0.5321	mg/L	0.00392	0.5321	mg/L	0.00392	0.74%
Tl 190.801	269.8	0.0919	mg/L	0.00384	0.0919	mg/L	0.00384	4.18%
V 292.402	2211113.5	0.5074	mg/L	0.00077	0.5074	mg/L	0.00077	0.15%
Zn 206.200	108243.7	0.9395	mg/L	0.00116	0.9395	mg/L	0.00116	0.12%
Na 330.237	129964.7	52.548	mg/L	0.1789	52.548	mg/L	0.1789	0.34%
Cd 226.502	401919.5	0.9661	mg/L	0.00244	0.9661	mg/L	0.00244	0.25%
Tl 334.940	9366.6	0.0102	mg/L	0.00005	0.0102	mg/L	0.00005	0.47%
Ca 227.546	417151.0	536.53	mg/L	2.732	536.53	mg/L	2.732	0.51%

Sequence No.: 9
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 1/24/2003 6:11:28 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	304557.3	1.1613	mg/L	0.06960	1.1613	mg/L	0.00960	0.83%
Al 308.215	536730.1	9.2988	mg/L	0.15162	9.2988	mg/L	0.15162	1.63%
As 188.979	1228.2	0.4882	mg/L	0.00312	0.4882	mg/L	0.00312	0.64%
Ba 233.527	1027875.7	10.126	mg/L	0.0734	10.126	mg/L	0.0734	0.72%
Be 313.107	2493223.4	0.2433	mg/L	0.00189	0.2433	mg/L	0.00189	0.78%
Co 228.616	86616.4	2.3540	mg/L	0.03476	2.3540	mg/L	0.03476	1.48%
Cr 267.716	385576.4	0.9679	mg/L	0.01314	0.9679	mg/L	0.01314	1.36%
Cu 324.752	718563.8	1.2306	mg/L	0.01282	1.2306	mg/L	0.01282	1.04%
Fe 273.955	2869962.8	4.8777	mg/L	0.06104	4.8777	mg/L	0.06104	1.25%
Mg 279.077	52721864.2	24.728	mg/L	0.1731	24.728	mg/L	0.1731	0.70%
Mn 257.610	1282072.4	2.5349	mg/L	0.01917	2.5349	mg/L	0.01917	0.76%
Ni 231.604	210803.5	2.5493	mg/L	0.02798	2.5493	mg/L	0.02798	1.10%
Pb 220.353	11277.0	0.4893	mg/L	0.00061	0.4893	mg/L	0.00061	0.12%
Sb 206.836	1803.7	0.4622	mg/L	0.00813	0.4622	mg/L	0.00813	1.76%
Se 196.026	1376.0	0.5015	mg/L	0.00390	0.5015	mg/L	0.00390	0.78%
Tl 190.801	1505.9	0.5111	mg/L	0.00039	0.5111	mg/L	0.00039	0.08%
V 292.402	1049531.1	2.4134	mg/L	0.01970	2.4134	mg/L	0.01970	0.82%
Zn 206.200	279003.9	2.4843	mg/L	0.02954	2.4843	mg/L	0.02954	1.19%
Na 330.237	59109.1	23.577	mg/L	0.4522	23.577	mg/L	0.4522	1.92%
Cd 226.502	101583.5	0.2462	mg/L	0.00296	0.2462	mg/L	0.00296	1.20%
Tl 334.940	2171.8	0.0015	mg/L	0.00004	0.0015	mg/L	0.00004	2.89%
Ca 227.546	18687.6	23.922	mg/L	0.0018	23.922	mg/L	0.0018	0.01%

Sequence No.: 10
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 1/24/2003 6:15:37 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	112.1	0.0004	mg/L	0.00046	0.0004	mg/L	0.00046	107.43%
Al 308.215	-567.3	-0.0098	mg/L	0.00144	-0.0098	mg/L	0.00144	14.69%
As 188.979	3.9	0.0017	mg/L	0.00072	0.0017	mg/L	0.00072	43.17%
Ba 233.527	163.6	0.0016	mg/L	0.00016	0.0016	mg/L	0.00016	10.08%
Be 313.107	1011.1	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	20.80%
Co 228.616	13.9	0.0004	mg/L	0.00007	0.0004	mg/L	0.00007	18.84%
Cr 267.716	-19.5	0.0000	mg/L	0.00014	0.0000	mg/L	0.00014	287.96%
Cu 324.752	2164.4	0.0037	mg/L	0.00052	0.0037	mg/L	0.00052	13.96%
Fe 273.955	961.4	0.0162	mg/L	0.00125	0.0162	mg/L	0.00125	7.70%
Mg 279.077	-1095.9	-0.0213	mg/L	0.00199	-0.0213	mg/L	0.00199	9.33%
Mn 257.610	256.4	0.0005	mg/L	0.00002	0.0005	mg/L	0.00002	4.46%
Ni 231.604	12.5	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	3.62%
Pb 220.353	5.7	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	18.81%
Sb 206.836	15.2	0.0039	mg/L	0.00069	0.0039	mg/L	0.00069	17.62%
Se 196.026	2.9	0.0011	mg/L	0.00041	0.0011	mg/L	0.00041	38.53%
Tl 190.801	-1.1	-0.0004	mg/L	0.00115	-0.0004	mg/L	0.00115	309.85%
V 292.402	131.9	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	3.05%
Zn 206.200	720.3	0.0064	mg/L	0.00148	0.0064	mg/L	0.00148	21.76%
Na 330.237	-42.5	-0.0171	mg/L	0.07696	-0.0171	mg/L	0.07696	414.56%
Cd 226.502	16.1	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	21.72%
Tl 334.940	383.4	0.0003	mg/L	0.00009	0.0003	mg/L	0.00009	35.24%
Ca 227.546	-35.6	-0.0462	mg/L	0.00319	-0.0462	mg/L	0.00319	6.91%

Sequence No.: 11
Sample ID: MB-5278,5279

Autosampler Location: 29
Date Collected: 1/24/2003 6:19:39 PM

Analyst:
Sample Wt:
Dilution:

Sample Prep Volume:
Data Type: Original

Mean Data: MB-5278,5278

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	49.2	0.0002	mg/L	0.00006	0.0002	mg/L	0.00006	30.36%
Al 308.215	-623.1	-0.0108	mg/L	0.00142	-0.0108	mg/L	0.00142	13.19%
As 188.979	4.1	0.0017	mg/L	0.00060	0.0017	mg/L	0.00060	34.84%
Ba 233.527	63.5	0.0006	mg/L	0.00005	0.0006	mg/L	0.00005	7.66%
Be 313.107	674.8	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	1.56%
Co 228.616	9.3	0.0003	mg/L	0.00006	0.0003	mg/L	0.00006	23.42%
Cr 267.716	-35.9	-0.0001	mg/L	0.00014	-0.0001	mg/L	0.00014	151.70%
Cu 324.752	1022.9	0.0018	mg/L	0.00002	0.0018	mg/L	0.00002	1.21%
Fe 273.955	732.4	0.0123	mg/L	0.00022	0.0123	mg/L	0.00022	1.80%
Mg 279.077	-895.8	-0.0174	mg/L	0.00023	-0.0174	mg/L	0.00023	1.30%
Mn 257.610	210.4	0.0004	mg/L	0.00001	0.0004	mg/L	0.00001	2.08%
Ni 231.604	-2.0	0.0000	mg/L	0.00008	0.0000	mg/L	0.00008	336.38%
Pb 220.353	1.9	0.0001	mg/L	0.00016	0.0001	mg/L	0.00016	206.87%
Sb 206.836	-0.8	-0.0002	mg/L	0.00023	-0.0002	mg/L	0.00023	116.65%
Se 196.026	3.8	0.0014	mg/L	0.00036	0.0014	mg/L	0.00036	25.94%
Tl 190.801	1.2	0.0004	mg/L	0.00091	0.0004	mg/L	0.00091	223.28%
V 292.402	54.6	0.0001	mg/L	0.00022	0.0001	mg/L	0.00022	177.15%
Zn 206.200	274.4	0.0024	mg/L	0.00030	0.0024	mg/L	0.00030	12.24%
Na 330.237	-147.6	-0.0599	mg/L	0.19252	-0.0599	mg/L	0.19252	321.36%
Cd 226.502	11.8	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	47.05%
Tl 334.940	176.9	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	20.32%
Ca 227.546	-32.3	-0.0417	mg/L	0.00351	-0.0417	mg/L	0.00351	8.41%

Sequence No.: 12
Sample ID: LCS-5278,5278
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 30
Date Collected: 1/24/2003 6:23:39 PM

Sample Prep Volume:
Data Type: Original

Mean Data: LCS-5278,5278

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	288966.4	1.1018	mg/L	0.00581	1.1018	mg/L	0.00581	0.53%
Al 308.215	517387.8	8.9637	mg/L	0.09254	8.9637	mg/L	0.09254	1.03%
As 188.979	1112.1	0.4809	mg/L	0.00078	0.4809	mg/L	0.00078	0.16%
Ba 233.527	934425.5	9.2055	mg/L	0.02245	9.2055	mg/L	0.02245	0.24%
Be 313.107	2366859.5	0.2309	mg/L	0.00103	0.2309	mg/L	0.00103	0.44%
Co 228.616	81492.5	2.2147	mg/L	0.00402	2.2147	mg/L	0.00402	0.18%
Cr 267.716	368154.6	0.9242	mg/L	0.00881	0.9242	mg/L	0.00881	0.95%
Cu 324.752	675305.5	1.1565	mg/L	0.00351	1.1565	mg/L	0.00351	0.30%
Fe 273.955	275146.3	4.6280	mg/L	0.03963	4.6280	mg/L	0.03963	0.86%
Mg 279.077	1182497.4	23.003	mg/L	0.0983	23.003	mg/L	0.0983	0.43%
Mn 257.610	1210165.6	2.3928	mg/L	0.00852	2.3928	mg/L	0.00852	0.36%
Ni 231.604	200698.9	2.4271	mg/L	0.01979	2.4271	mg/L	0.01979	0.82%
Pb 220.353	10969.1	0.4759	mg/L	0.00080	0.4759	mg/L	0.00080	0.17%
Sb 206.836	1900.9	0.4865	mg/L	0.00204	0.4865	mg/L	0.00204	0.42%
Se 196.026	1324.8	0.4829	mg/L	0.00228	0.4829	mg/L	0.00228	0.48%
Tl 190.801	1456.7	0.4948	mg/L	0.00207	0.4948	mg/L	0.00207	0.42%
V 292.402	981609.2	2.2564	mg/L	0.01011	2.2564	mg/L	0.01011	0.45%
Zn 206.200	265388.2	2.3631	mg/L	0.01914	2.3631	mg/L	0.01914	0.81%
Na 330.237	54717.8	22.200	mg/L	0.2719	22.200	mg/L	0.2719	1.22%
Cd 226.502	100145.9	0.2427	mg/L	0.00191	0.2427	mg/L	0.00191	0.79%
Tl 334.940	1504.1	0.0010	mg/L	0.00002	0.0010	mg/L	0.00002	2.18%
Ca 227.546	17991.9	23.035	mg/L	0.0097	23.035	mg/L	0.0097	0.04%

Sequence No.: 13
Sample ID: B0128-01C,5278
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 31
Date Collected: 1/24/2003 6:27:48 PM

Sample Prep Volume:
Data Type: Original

Mean Data: B0128-01C,5278

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	-119.2	0.0001	mg/L	0.00030	0.0001	mg/L	0.00030	353.67%
Al 308.215	612806.0	10.617	mg/L	0.2247	10.617	mg/L	0.2247	2.12%
As 188.979	14.9	0.0071	mg/L	0.00028	0.0071	mg/L	0.00028	3.96%
Ba 233.527	6962.9	0.0684	mg/L	0.00078	0.0684	mg/L	0.00078	1.15%
Be 313.107	-1701.6	0.0003	mg/L	0.00002	0.0003	mg/L	0.00002	7.20%
Co 228.616	87.6	0.0017	mg/L	0.00006	0.0017	mg/L	0.00006	3.23%
Cr 267.716	7547.2	0.0190	mg/L	0.00007	0.0190	mg/L	0.00007	0.35%
Cu 324.752	9083.2	0.0158	mg/L	0.00135	0.0158	mg/L	0.00135	8.55%
Fe 273.955	269930.8	4.4729	mg/L	0.04292	4.4729	mg/L	0.04292	0.96%
Mg 279.077	232153.7	4.5138	mg/L	0.04201	4.5138	mg/L	0.04201	0.93%
Mn 257.610	8980.5	0.0178	mg/L	0.00009	0.0178	mg/L	0.00009	0.51%
Ni 231.604	1034.5	0.0122	mg/L	0.00007	0.0122	mg/L	0.00007	0.61%
Pb 220.353	153.5	0.0078	mg/L	0.00027	0.0078	mg/L	0.00027	3.52%
Sb 206.836	1.6	0.0011	mg/L	0.00068	0.0011	mg/L	0.00068	64.37%
Se 196.026	3.7	0.0024	mg/L	0.00007	0.0024	mg/L	0.00007	2.85%
Tl 190.801	-4.8	-0.0009	mg/L	0.00042	-0.0009	mg/L	0.00042	46.60%
V 292.402	12182.7	0.0277	mg/L	0.00038	0.0277	mg/L	0.00038	1.36%
Zn 206.200	1475.7	0.0124	mg/L	0.00097	0.0124	mg/L	0.00097	7.77%
Na 330.237	109281.3	44.528	mg/L	0.5430	44.528	mg/L	0.5430	1.22%
Cd 226.502	137.1	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	2.04%
Tl 334.940	658665.6	0.4566	mg/L	0.03548	0.4566	mg/L	0.03548	7.77%
Ca 227.546	12084.6	15.546	mg/L	0.0070	15.546	mg/L	0.0070	0.05%

Sequence No.: 14
Sample ID: MB-5274,5278
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 32
Date Collected: 1/24/2003 6:31:55 PM

Sample Prep Volume:
Data Type: Original

Mean Data: MB-5274,5278

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	78.3	0.0003	mg/L	0.00011	0.0003	mg/L	0.00011	36.25%
Al 308.215	-221.7	-0.0038	mg/L	0.00312	-0.0038	mg/L	0.00312	81.34%
As 188.979	-0.4	-0.0001	mg/L	0.00089	-0.0001	mg/L	0.00089	608.38%
Ba 233.527	384.5	0.0038	mg/L	0.00026	0.0038	mg/L	0.00026	6.90%
Be 313.107	626.9	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	19.19%
Co 228.616	24.2	0.0007	mg/L	0.00008	0.0007	mg/L	0.00008	12.19%
Cr 267.716	117.2	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	3.56%
Cu 324.752	1726.6	0.0030	mg/L	0.00026	0.0030	mg/L	0.00026	8.75%
Fe 273.955	2271.7	0.0382	mg/L	0.00088	0.0382	mg/L	0.00088	2.29%
Mg 279.077	1034.8	0.0201	mg/L	0.01214	0.0201	mg/L	0.01214	60.31%
Mn 257.610	1540.8	0.0030	mg/L	0.00000	0.0030	mg/L	0.00000	0.16%
Ni 231.604	38.1	0.0005	mg/L	0.00003	0.0005	mg/L	0.00003	7.49%
Pb 220.353	5.1	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	3.67%
Sb 206.836	1.2	0.0003	mg/L	0.00016	0.0003	mg/L	0.00016	51.52%
Se 196.026	5.2	0.0019	mg/L	0.00177	0.0019	mg/L	0.00177	93.51%
Tl 190.801	-2.7	-0.0009	mg/L	0.00048	-0.0009	mg/L	0.00048	53.15%
V 292.402	59.8	0.0001	mg/L	0.00010	0.0001	mg/L	0.00010	72.13%
Zn 206.200	567.7	0.0051	mg/L	0.00020	0.0051	mg/L	0.00020	3.97%
Na 330.237	557.6	0.2266	mg/L	0.07699	0.2266	mg/L	0.07699	33.97%
Cd 226.502	29.8	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	6.99%
Tl 334.940	1026.9	0.0007	mg/L	0.00006	0.0007	mg/L	0.00006	8.54%
Ca 227.546	183.2	0.2358	mg/L	0.01490	0.2358	mg/L	0.01490	6.32%

Sequence No.: 15
Sample ID: B0128-01D,5278
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 33
Date Collected: 1/24/2003 6:35:57 PM

Sample Prep Volume:
Data Type: Original

Mean Data: B0128-01D,5278

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	114.9	0.0001	mg/L	0.00016	0.0001	mg/L	0.00016	166.98%
Al 308.215	-530.9	-0.0092	mg/L	0.00104	-0.0092	mg/L	0.00104	11.28%
As 188.979	3.3	0.0014	mg/L	0.00053	0.0914	mg/L	0.00053	37.97%
Ba 233.527	3857.6	0.6379	mg/L	0.00001	0.0379	mg/L	0.00001	0.02%
Be 313.107	524.2	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	0.84%
Co 228.616	29.6	0.0008	mg/L	0.00002	0.0008	mg/L	0.00002	2.62%
Cr 267.716	536.2	0.0013	mg/L	0.00002	0.0013	mg/L	0.00002	1.21%
Cu 324.752	1653.3	0.0028	mg/L	0.00037	0.0028	mg/L	0.00037	13.20%
Fe 273.955	1632.2	0.0275	mg/L	0.00122	0.0275	mg/L	0.00122	4.43%
Mg 279.077	223608.0	4.3476	mg/L	0.03673	4.3476	mg/L	0.03673	0.84%
Mn 257.610	5374.8	0.0106	mg/L	0.00001	0.0106	mg/L	0.00001	0.08%
Ni 231.604	322.5	0.0039	mg/L	0.00003	0.0039	mg/L	0.00003	0.73%
Pb 220.353	-3.3	-0.0001	mg/L	0.00020	-0.0001	mg/L	0.00020	153.02%
Sb 206.836	4.0	0.0010	mg/L	0.00049	0.0010	mg/L	0.00049	46.74%
Se 196.026	6.4	0.0023	mg/L	0.00087	0.0023	mg/L	0.00087	36.98%
Tl 190.801	-5.3	-0.0017	mg/L	0.00048	-0.0017	mg/L	0.00048	27.70%
V 292.402	162.9	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	4.70%
Zn 206.200	1433.7	0.0125	mg/L	0.00011	0.0125	mg/L	0.00011	0.90%
Na 330.237	106469.0	43.262	mg/L	0.3039	43.262	mg/L	0.3039	0.70%
Cd 226.502	47.8	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	28.08%
Ti 334.940	946.4	0.0008	mg/L	0.00013	0.0008	mg/L	0.00013	17.85%
Ca 227.546	10652.7	13.735	mg/L	0.0367	13.735	mg/L	0.0367	0.27%

Sequence No.: 16
Sample ID: B0118-01B,5278
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 34
Date Collected: 1/24/2003 6:39:59 PM

Sample Prep Volume:
Data Type: Original

Mean Data: B0118-01B,5278

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	42.5	0.0002	mg/L	0.00011	0.0002	mg/L	0.00011	71.72%
Al 308.215	350531.5	6.0729	mg/L	0.08940	6.0729	mg/L	0.08940	1.47%
As 188.979	6.9	0.0033	mg/L	0.00013	0.0033	mg/L	0.00013	4.02%
Ba 233.527	5987.1	0.9587	mg/L	0.00006	0.0587	mg/L	0.00006	0.11%
Be 313.107	-1355.9	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	21.51%
Co 228.616	205.9	0.0052	mg/L	0.00017	0.0052	mg/L	0.00017	3.32%
Cr 267.716	3080.7	0.0076	mg/L	0.00002	0.0076	mg/L	0.00002	0.31%
Cu 324.752	3744.3	0.0053	mg/L	0.00023	0.0053	mg/L	0.00023	4.38%
Fe 273.955	169216.5	2.8462	mg/L	0.00254	2.8462	mg/L	0.00254	0.09%
Mg 279.077	343209.5	6.6779	mg/L	0.04977	6.6779	mg/L	0.04977	0.75%
Mn 257.610	482780.8	0.9546	mg/L	0.00677	0.9546	mg/L	0.00677	0.71%
Ni 231.604	1436.8	0.0172	mg/L	0.00018	0.0172	mg/L	0.00018	1.02%
Pb 220.353	65.2	0.0033	mg/L	0.00020	0.0033	mg/L	0.00020	6.04%
Sb 206.836	4.8	0.0015	mg/L	0.00055	0.0015	mg/L	0.00055	36.23%
Se 196.026	10.2	0.0036	mg/L	0.00136	0.0036	mg/L	0.00136	37.45%
Tl 190.801	-19.3	-0.0021	mg/L	0.00090	-0.0021	mg/L	0.00090	43.37%
V 292.402	6779.6	0.0155	mg/L	0.00023	0.0155	mg/L	0.00023	1.51%
Zn 206.200	2510.2	0.0215	mg/L	0.00002	0.0215	mg/L	0.00002	0.11%
Na 330.237	164482.7	66.899	mg/L	0.2686	66.899	mg/L	0.2686	0.40%
Cd 226.502	106.5	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	6.54%
Ti 334.940	386111.8	0.2677	mg/L	0.01657	0.2677	mg/L	0.01657	6.19%
Ca 227.546	19393.7	24.983	mg/L	0.0349	24.983	mg/L	0.0349	0.14%

Sequence No.: 17
Sample ID: MB-5271,5278
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 35
Date Collected: 1/24/2003 6:44:02 PM

Sample Prep Volume:
Data Type: Original

Mean Data: MB-5271,5278

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	24.0	0.0001	mg/L	0.00009	0.0001	mg/L	0.00009	100.19%

Al 308.215	-345.8	-0.0060	mg/L	0.00110	-0.0060	mg/L	0.00110	18.44%
As 188.979	1.4	0.0006	mg/L	0.00020	0.0006	mg/L	0.00020	32.69%
Ba 233.527	157.8	0.0016	mg/L	0.00018	0.0016	mg/L	0.00018	11.42%
Be 313.107	453.5	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	0.68%
Co 228.616	25.5	0.0007	mg/L	0.00005	0.0007	mg/L	0.00005	7.57%
Cr 267.716	257.6	0.0006	mg/L	0.00015	0.0006	mg/L	0.00015	22.73%
Cu 324.752	888.3	0.0015	mg/L	0.00020	0.0015	mg/L	0.00020	13.49%
Fe 273.955	1938.6	0.0326	mg/L	0.00138	0.0326	mg/L	0.00138	4.23%
Mg 279.077	4066.7	0.0791	mg/L	0.01411	0.0791	mg/L	0.01411	17.84%
Mn 257.610	2554.0	0.0050	mg/L	0.00005	0.0050	mg/L	0.00005	0.92%
Ni 231.604	93.6	0.0011	mg/L	0.00000	0.0011	mg/L	0.00000	0.26%
Pb 220.353	4.8	0.0002	mg/L	0.00022	0.0002	mg/L	0.00022	107.95%
Sb 206.836	0.2	0.0001	mg/L	0.00096	0.0001	mg/L	0.00096	>999.9%
Se 196.026	2.1	0.0010	mg/L	0.00046	0.0010	mg/L	0.00046	46.85%
Tl 190.801	0.2	0.0001	mg/L	0.00072	0.0001	mg/L	0.00072	809.88%
V 292.402	29.0	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	21.60%
Zn 206.200	737.2	0.0066	mg/L	0.00009	0.0066	mg/L	0.00009	1.42%
Na 330.237	1053.5	0.4280	mg/L	0.11265	0.4280	mg/L	0.11265	26.32%
Cd 226.502	11.8	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	18.37%
Ti 334.940	574.0	0.0004	mg/L	0.00003	0.0004	mg/L	0.00003	7.03%
Ca 227.546	237.5	0.3059	mg/L	0.02301	0.3059	mg/L	0.02301	7.52%

Sequence No.: 18
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 1/24/2003 6:48:06 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	301851.9	1.1510	mg/L	0.00029	1.1510	mg/L	0.00029	0.03%
Al 308.215	540457.5	9.3634	mg/L	0.03610	9.3634	mg/L	0.03610	0.39%
As 188.979	1124.0	0.4864	mg/L	0.00109	9.4864	mg/L	0.00109	0.22%
Ba 233.527	1923952.7	10.087	mg/L	6.0207	10.087	mg/L	0.0207	0.20%
Be 313.107	24902017.0	0.2431	mg/L	0.00051	0.2431	mg/L	0.00051	0.21%
Co 228.616	85672.8	2.3283	mg/L	0.01348	2.3283	mg/L	0.01348	0.58%
Cr 267.716	387505.2	0.9727	mg/L	0.00274	0.9727	mg/L	0.00274	0.28%
Cu 324.752	717883.3	1.2294	mg/L	0.00096	1.2294	mg/L	0.00096	0.08%
Fe 273.955	2891951.3	4.8642	mg/L	0.01843	4.8642	mg/L	0.01843	0.38%
Mg 279.077	12728858.5	24.761	mg/L	0.0398	24.761	mg/L	0.0398	0.16%
Mn 257.610	1286743.2	2.5442	mg/L	0.00708	2.5442	mg/L	0.00708	0.28%
Ni 231.604	213737.6	2.5848	mg/L	0.00449	2.5848	mg/L	0.00449	0.17%
Pb 220.353	11226.7	0.4871	mg/L	0.00046	0.4871	mg/L	0.00046	0.10%
Sb 206.836	1750.1	0.4588	mg/L	0.00589	0.4588	mg/L	0.00589	1.28%
Se 196.026	1378.4	0.5024	mg/L	0.00123	0.5024	mg/L	0.00123	0.24%
Tl 190.801	1498.4	0.5086	mg/L	0.00058	0.5086	mg/L	0.00058	0.11%
V 292.402	1049473.2	2.4124	mg/L	0.00551	2.4124	mg/L	0.00551	0.23%
Zn 206.200	279570.7	2.4894	mg/L	0.01278	2.4894	mg/L	0.01278	0.51%
Na 330.237	58439.3	23.711	mg/L	0.0122	23.711	mg/L	0.0122	0.05%
Cd 226.502	102057.0	0.2474	mg/L	0.00099	0.2474	mg/L	0.00099	0.40%
Ti 334.940	2015.2	0.0014	mg/L	0.00000	0.0014	mg/L	0.00000	0.00%
Ca 227.546	18735.1	23.983	mg/L	0.0080	23.983	mg/L	0.0089	0.03%

Sequence No.: 19
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 1/24/2003 6:52:15 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	56.8	0.0002	mg/L	0.00006	0.0002	mg/L	0.00006	27.68%
Al 308.215	-729.7	-0.0126	mg/L	0.00103	-0.0126	mg/L	0.00103	8.16%
As 188.979	2.8	0.0008	mg/L	0.00043	0.0008	mg/L	0.00043	50.56%
Ba 233.527	163.6	0.0016	mg/L	0.00023	0.0016	mg/L	0.00023	14.26%

Be 313.107	768.0	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	15.35%
Co 228.616	29.8	0.0005	mg/L	0.00012	0.0005	mg/L	0.00012	22.07%
Cr 267.716	12.2	0.0000	mg/L	0.00009	0.0000	mg/L	0.00009	279.44%
Cu 324.752	1853.7	0.0032	mg/L	0.00044	0.0032	mg/L	0.00044	13.71%
Fe 273.955	439.6	0.0074	mg/L	0.00086	0.0074	mg/L	0.00086	11.62%
Mg 279.077	-940.4	-0.0183	mg/L	0.00957	-0.0183	mg/L	0.00957	52.36%
Mn 257.610	184.7	0.0004	mg/L	0.00002	0.0004	mg/L	0.00002	6.59%
Ni 231.604	17.7	0.0002	mg/L	0.00014	0.0002	mg/L	0.00014	67.53%
Pb 220.353	0.8	0.0000	mg/L	0.00022	0.0000	mg/L	0.00022	676.61%
Sb 206.836	15.4	0.0039	mg/L	0.00173	0.0039	mg/L	0.00173	44.01%
Se 196.026	6.4	0.0024	mg/L	0.00049	0.0024	mg/L	0.00049	20.96%
Tl 190.801	2.1	0.0007	mg/L	0.00019	0.0007	mg/L	0.00019	26.93%
V 292.402	102.6	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	14.54%
Zn 206.200	613.4	0.0055	mg/L	0.00118	0.0055	mg/L	0.00118	21.56%
Na 330.237	-60.6	-0.0246	mg/L	0.09462	-0.0246	mg/L	0.09462	385.21%
Cd 226.502	11.9	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	24.99%
Ti 334.940	188.6	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	13.53%
Ca 227.546	-18.1	-0.0235	mg/L	0.00583	-0.0235	mg/L	0.00583	24.80%

Sequence No.: 20
Sample ID: B0118-01C,5278
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 36
Date Collected: 1/24/2003 6:56:17 PM

Sample Prep Volume:
Data Type: Original

Mean Data: B0118-01C,5278

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	111.1	-0.0001	mg/L	0.00035	-0.0001	mg/L	0.00035	330.60%
Al 308.215	-331.8	-0.0057	mg/L	0.00045	-0.0057	mg/L	0.00045	7.87%
As 188.979	2.5	0.0010	mg/L	0.00014	0.0910	mg/L	0.00014	14.11%
Ba 233.527	5530.1	0.0543	mg/L	0.00071	0.0543	mg/L	0.00071	1.31%
Be 313.107	453.9	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	12.34%
Co 228.616	158.4	0.0043	mg/L	0.00005	0.0043	mg/L	0.00005	1.10%
Cr 267.716	279.7	0.0005	mg/L	0.00003	0.0005	mg/L	0.00003	4.89%
Cu 324.752	2853.8	0.0037	mg/L	0.00076	0.0037	mg/L	0.00076	20.64%
Fe 273.955	1480.8	0.0249	mg/L	0.00138	0.0249	mg/L	0.00138	5.53%
Mg 279.077	342513.0	6.6641	mg/L	0.04556	6.6641	mg/L	0.04556	0.68%
Mn 257.610	459980.9	0.9094	mg/L	0.00077	0.9094	mg/L	0.00077	0.08%
Ni 231.604	1102.6	0.0133	mg/L	0.00008	0.0133	mg/L	0.00008	0.64%
Pb 220.353	-4.4	-0.0003	mg/L	0.00015	-0.0003	mg/L	0.00015	49.04%
Sb 206.836	4.4	0.0011	mg/L	0.00008	0.0011	mg/L	0.00008	7.89%
Se 196.026	11.2	0.0034	mg/L	0.00002	0.0034	mg/L	0.00002	0.62%
Tl 190.801	-21.8	-0.0035	mg/L	0.00000	-0.0035	mg/L	0.00000	0.10%
V 292.402	229.4	0.0006	mg/L	0.00016	0.0006	mg/L	0.00016	26.69%
Zn 206.200	2082.8	0.0180	mg/L	0.00078	0.0180	mg/L	0.00078	4.32%
Na 330.237	168773.7	68.570	mg/L	0.1096	68.570	mg/L	0.1096	0.16%
Cd 226.502	53.5	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	7.76%
Ti 334.940	1477.2	0.0012	mg/L	0.00004	0.0012	mg/L	0.00004	2.97%
Ca 227.546	19194.7	24.749	mg/L	0.1582	24.749	mg/L	0.1582	0.64%

Sequence No.: 21
Sample ID: MB-5255,5278
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 37
Date Collected: 1/24/2003 7:00:22 PM

Sample Prep Volume:
Data Type: Original

Mean Data: MB-5255,5278

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	43.2	0.0002	mg/L	0.00004	0.0002	mg/L	0.00004	21.46%
Al 308.215	-562.1	-0.0094	mg/L	0.00271	-0.0094	mg/L	0.00271	28.90%
As 188.979	0.6	0.0002	mg/L	0.00093	0.0002	mg/L	0.00093	390.22%
Ba 233.527	267.8	0.0020	mg/L	0.00030	0.0020	mg/L	0.00030	14.79%
Be 313.107	381.8	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	5.91%
Co 228.616	26.0	0.0007	mg/L	0.00002	0.0007	mg/L	0.00002	3.47%
Cr 267.716	50.4	0.0001	mg/L	0.00010	0.0001	mg/L	0.00010	80.27%

Cu 324.752	1268.8	0.0020	mg/L	0.00026	0.0020	mg/L	0.00026	13.04%
Fe 273.955	1460.1	0.0246	mg/L	0.00139	0.0246	mg/L	0.00139	5.68%
Mg 279.077	1193.4	0.0215	mg/L	0.01832	0.0215	mg/L	0.01832	85.36%
Mn 257.610	956.5	0.0017	mg/L	0.00003	0.0017	mg/L	0.00003	1.88%
Ni 231.604	41.7	0.0005	mg/L	0.00002	0.0005	mg/L	0.00002	4.39%
Pb 220.353	2.9	0.0001	mg/L	0.00007	0.0001	mg/L	0.00007	58.28%
Sb 206.836	3.0	0.0008	mg/L	0.00148	0.0008	mg/L	0.00148	196.62%
Se 196.026	7.8	0.0029	mg/L	0.00093	0.0029	mg/L	0.00093	32.05%
Tl 190.801	2.8	0.0010	mg/L	0.00130	0.0010	mg/L	0.00130	135.33%
V 292.402	5.8	0.0000	mg/L	0.00004	0.0000	mg/L	0.00004	326.56%
Zn 206.200	249.5	0.0022	mg/L	0.00029	0.0022	mg/L	0.00029	13.24%
Na 330.237	264.2	0.1074	mg/L	0.06066	0.1074	mg/L	0.06066	56.47%
Cd 226.502	1.5	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	367.94%
Ti 334.940	458.2	0.0003	mg/L	0.00008	0.0003	mg/L	0.00008	25.59%
Ca 227.546	64.1	0.0824	mg/L	0.03221	0.0824	mg/L	0.03221	39.08%

Sequence No.: 22
Sample ID: B0118-03A,5278
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 38
Date Collected: 1/24/2003 7:04:26 PM

Sample Prep Volume:
Data Type: Original

Mean Data: B0118-03A,5278

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	26.0	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	53.35%
Al 308.215	-618.3	-0.0107	mg/L	0.00293	-0.0107	mg/L	0.00293	27.37%
As 188.979	-0.4	-0.0002	mg/L	0.00095	-0.0002	mg/L	0.00095	551.11%
Ba 233.527	881.9	0.0087	mg/L	0.00014	0.0087	mg/L	0.00014	1.67%
Be 313.107	326.5	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	17.46%
Co 228.616	38.4	0.0010	mg/L	0.00002	0.0010	mg/L	0.00002	1.54%
Cr 267.716	166.7	0.0004	mg/L	0.00012	0.0004	mg/L	0.00012	29.56%
Cu 324.752	993.3	0.0016	mg/L	0.00008	0.0016	mg/L	0.00008	5.08%
Fe 273.955	1255.1	0.0211	mg/L	0.00162	0.0211	mg/L	0.00162	7.69%
Mg 279.077	35405.3	0.6889	mg/L	0.02148	0.6889	mg/L	0.02148	3.12%
Mn 257.610	47989.3	0.0949	mg/L	0.00052	0.0949	mg/L	0.00052	0.55%
Ni 231.604	139.7	0.0017	mg/L	0.00003	0.0017	mg/L	0.00003	1.81%
Pb 220.353	0.3	0.0000	mg/L	0.00037	0.0000	mg/L	0.00037	>999.9%
Sb 206.836	-0.4	-0.0001	mg/L	0.00008	-0.0001	mg/L	0.00008	82.00%
Se 196.026	2.9	0.0010	mg/L	0.00061	0.0010	mg/L	0.00061	62.00%
Tl 190.801	-2.4	-0.0004	mg/L	0.00053	-0.0004	mg/L	0.00053	126.90%
V 292.402	81.9	0.0002	mg/L	0.00008	0.0002	mg/L	0.00008	37.77%
Zn 206.200	568.1	0.0050	mg/L	0.00017	0.0050	mg/L	0.00017	3.35%
Na 330.237	15046.9	6.1131	mg/L	0.00731	6.1131	mg/L	0.00731	0.12%
Cd 226.502	0.2	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	>999.9%
Ti 334.940	428.8	0.0003	mg/L	0.00006	0.0003	mg/L	0.00006	18.19%
Ca 227.546	1904.9	2.4559	mg/L	0.02152	2.4559	mg/L	0.02152	0.88%

Sequence No.: 23
Sample ID: MB-5254,5278
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 1/24/2003 7:08:30 PM

Sample Prep Volume:
Data Type: Original

Mean Data: MB-5254,5278

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-31.7	-0.0001	mg/L	0.00006	-0.0001	mg/L	0.00006	47.81%
Al 308.215	-787.9	-0.0137	mg/L	0.00062	-0.0137	mg/L	0.00062	4.52%
As 188.979	-1.1	-0.0005	mg/L	0.00081	-0.0005	mg/L	0.00081	170.50%
Ba 233.527	780.7	0.0077	mg/L	0.00011	0.0077	mg/L	0.00011	1.48%
Be 313.107	394.7	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	28.52%
Co 228.616	21.2	0.0006	mg/L	0.00004	0.0006	mg/L	0.00004	7.40%
Cr 267.716	144.8	0.0004	mg/L	0.00014	0.0004	mg/L	0.00014	38.85%
Cu 324.752	716.4	0.0012	mg/L	0.00022	0.0012	mg/L	0.00022	17.72%
Fe 273.955	1207.6	0.0203	mg/L	0.00093	0.0203	mg/L	0.00093	4.58%
Mg 279.077	170.2	0.0033	mg/L	0.01094	0.0033	mg/L	0.01094	329.01%

Method: 6010B — Page 12 — Date: 1/24/2003 7:18:03 PM

Mn 257.610	1598.5	0.0032 mg/L	0.00003	0.0032 mg/L	0.00003	0.79%
Ni 231.604	37.8	0.0008 mg/L	0.00006	0.0005 mg/L	0.00006	12.38%
Pb 220.353	15.6	0.0007 mg/L	0.00016	0.0007 mg/L	0.00016	23.25%
Sb 206.836	2.6	0.0061 mg/L	0.00029	0.0060 mg/L	0.00029	44.07%
Se 196.026	10.0	0.0037 mg/L	0.00177	0.0037 mg/L	0.00177	48.18%
Tl 190.801	2.9	0.0010 mg/L	0.00115	0.0010 mg/L	0.00115	115.70%
V 292.402	65.9	0.0002 mg/L	0.00010	0.0002 mg/L	0.00010	64.73%
Zn 206.200	488.0	0.0043 mg/L	0.00007	0.0043 mg/L	0.00007	1.71%
Na 330.237	368759.9	149.89 mg/L	1.023	149.89 mg/L	1.023	0.68%
Cd 226.502	5.0	0.0009 mg/L	0.00001	0.0009 mg/L	0.00001	108.45%
Ti 334.940	447.0	0.0003 mg/L	0.00001	0.0003 mg/L	0.00001	4.53%
Ca 227.546	89.0	0.1146 mg/L	0.00647	0.1146 mg/L	0.00647	5.65%

Sequence No.: 24
Sample ID: B0118-04A,5278
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 40
Date Collected: 1/24/2003 7:12:35 PM

Sample Prep Volume:
Data Type: Original

Mean Data: B0118-04A,5278

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	-21.6	-0.0006	mg/L	0.00016	-0.0006	mg/L	0.00016	27.39%
Al 308.215	11646.2	0.2018	mg/L	0.00868	0.2018	mg/L	0.00868	4.30%
As 188.979	0.5	0.0003	mg/L	0.00108	0.0003	mg/L	0.00108	416.74%
Ba 233.527	3219.3	0.0326	mg/L	0.00002	0.0326	mg/L	0.00002	0.06%
Be 313.107	983.3	0.0091	mg/L	0.00002	0.0091	mg/L	0.00002	25.28%
Co 228.616	38.4	0.0016	mg/L	0.00002	0.0016	mg/L	0.00002	1.66%
Cr 267.716	763.1	0.0019	mg/L	0.00001	0.0019	mg/L	0.00001	0.61%
Cu 324.752	1536.3	0.0025	mg/L	0.00039	0.0025	mg/L	0.00039	15.54%
Fe 273.955	6670.7	0.1122	mg/L	0.00066	0.1122	mg/L	0.00066	0.59%
Mg 279.077	57018.1	1.1088	mg/L	0.00353	1.1088	mg/L	0.00353	0.32%
Mn 257.610	20547.3	0.0406	mg/L	0.00063	0.0406	mg/L	0.00063	1.55%
Ni 231.604	3865.9	0.0371	mg/L	0.00005	0.0371	mg/L	0.00005	0.14%
Pb 220.353	63.8	0.0028	mg/L	0.00008	0.0028	mg/L	0.00008	2.84%
Sb 206.836	2.0	0.0006	mg/L	0.00081	0.0006	mg/L	0.00081	136.40%
Se 196.026	6.9	0.0025	mg/L	0.00100	0.0025	mg/L	0.00100	39.74%
Tl 190.801	-4.6	-0.0012	mg/L	0.00036	-0.0012	mg/L	0.00036	29.06%
V 292.402	83.6	0.0002	mg/L	0.00008	0.0002	mg/L	0.00008	42.97%
Zn 206.200	2369.5	0.0209	mg/L	0.00007	0.0209	mg/L	0.00007	0.32%
Na 330.237	377172.0	153.28	mg/L	3.030	153.28	mg/L	3.030	1.98%
Cd 226.502	23.2	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	11.40%
Ti 334.940	2137.4	0.0016	mg/L	0.00003	0.0016	mg/L	0.00003	1.91%
Ca 227.546	18931.7	23.893	mg/L	0.0625	23.893	mg/L	0.0625	0.26%

Sequence No.: 25
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 1/24/2003 7:16:34 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	-6640.7	-0.0055	mg/L	0.00018	-0.0055	mg/L	0.00018	3.32%
Al 308.215	26644890.4	461.62	mg/L	0.422	461.62	mg/L	0.421	0.09%
As 188.979	-39.6	-0.0016	mg/L	0.00379	-0.0016	mg/L	0.00379	368.80%
Ba 233.527	836.9	-0.0005	mg/L	0.00000	-0.0005	mg/L	0.00000	0.04%
Be 313.107	1838.4	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	0.26%
Co 228.616	-151.3	-0.0050	mg/L	0.00060	-0.0050	mg/L	0.00060	12.08%
Cr 267.716	-786.0	0.0001	mg/L	0.00019	0.0001	mg/L	0.00019	208.58%
Cu 324.752	-9803.7	0.0044	mg/L	0.00005	0.0044	mg/L	0.00005	1.08%
Fe 273.955	9751892.5	164.03	mg/L	0.078	164.03	mg/L	0.078	0.05%
Mg 279.077	23426660.7	455.48	mg/L	0.540	455.48	mg/L	0.540	0.12%
Mn 257.610	-10882.7	-0.0228	mg/L	0.00020	-0.0228	mg/L	0.00020	0.86%
Ni 231.604	137.3	0.0017	mg/L	0.00005	0.0017	mg/L	0.00005	3.15%
Pb 220.353	-727.5	0.0045	mg/L	0.00072	0.0045	mg/L	0.00072	16.15%

Method: 6010B — Page 13 — Date: 1/24/2003 7:24:58 PM

Sb 206.836	-40.6	-0.0006	mg/L	0.00519	-0.0006	mg/L	0.00519	811.02%
Se 196.026	-139.8	-0.0075	mg/L	0.03086	-0.0075	mg/L	0.03086	408.77%
Tl 190.801	11.3	0.0042	mg/L	0.00936	0.0042	mg/L	0.00936	222.44%
V 292.402	-75.2	-0.0015	mg/L	0.00002	-0.0015	mg/L	0.00002	1.19%
Zn 206.200	1972.7	-0.0060	mg/L	0.00004	-0.0060	mg/L	0.00004	0.62%
Na 330.237	940.2	0.1424	mg/L	0.05580	0.1424	mg/L	0.05580	39.18%
Cd 226.502	4230.0	0.0038	mg/L	0.00005	0.0038	mg/L	0.00005	1.35%
Ti 334.940	8987.3	0.0097	mg/L	0.00005	0.0097	mg/L	0.00005	0.51%
Ca 227.546	380449.8	489.33	mg/L	5.267	489.33	mg/L	5.267	1.08%

Sequence No.: 26
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 1/24/2003 7:19:13 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	45495.1	0.1942	mg/L	0.00072	0.1942	mg/L	0.00072	0.37%
Al 308.215	28574102.4	495.04	mg/L	4.042	495.04	mg/L	4.042	0.82%
As 188.979	174.6	0.0956	mg/L	0.00062	0.0956	mg/L	0.00062	0.65%
Ba 233.527	52525.6	0.5091	mg/L	0.00053	0.5091	mg/L	0.00053	0.10%
Be 313.107	5220951.8	0.5094	mg/L	0.00438	0.5094	mg/L	0.00438	0.86%
Co 228.616	16055.7	0.4354	mg/L	0.00045	0.4354	mg/L	0.00045	0.10%
Cr 267.716	198083.6	0.4994	mg/L	0.00026	0.4994	mg/L	0.00026	0.05%
Cu 324.752	310392.9	0.5546	mg/L	0.00140	0.5546	mg/L	0.00140	0.25%
Fe 273.955	10353106.8	174.14	mg/L	1.122	174.14	mg/L	1.122	0.64%
Mg 279.077	24881685.5	483.77	mg/L	2.990	483.77	mg/L	2.990	0.62%
Mn 257.610	253044.4	0.4993	mg/L	0.00042	0.4993	mg/L	0.00042	0.08%
Ni 231.604	82350.2	0.9959	mg/L	0.00046	0.9959	mg/L	0.00046	0.05%
Pb 220.353	9729.6	0.4599	mg/L	0.00015	0.4599	mg/L	0.00015	0.03%
Sb 206.836	2362.0	0.6114	mg/L	0.00263	0.6114	mg/L	0.00263	0.43%
Se 196.026	1314.0	0.5262	mg/L	0.00486	0.5262	mg/L	0.00486	0.92%
Tl 190.801	1500.6	0.5093	mg/L	0.00065	0.5093	mg/L	0.00065	0.13%
V 292.402	219289.4	0.5032	mg/L	0.00028	0.5032	mg/L	0.00028	0.06%
Zn 206.200	107958.9	0.9370	mg/L	0.00160	0.9370	mg/L	0.00160	0.17%
Na 330.237	128344.2	51.894	mg/L	0.1089	51.894	mg/L	0.1089	0.21%
Cd 226.502	398939.7	0.9589	mg/L	0.00016	0.9589	mg/L	0.00016	0.02%
Ti 334.940	9064.8	0.0099	mg/L	0.00027	0.0099	mg/L	0.00027	2.77%
Ca 227.546	413137.0	531.36	mg/L	0.682	531.36	mg/L	0.682	0.13%

Sequence No.: 27
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 1/24/2003 7:21:57 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	304007.9	1.1592	mg/L	0.01404	1.1592	mg/L	0.01404	1.21%
Al 308.215	543917.8	9.4233	mg/L	0.11456	9.4233	mg/L	0.11456	1.22%
As 188.979	1127.1	0.4878	mg/L	0.00082	0.4878	mg/L	0.00082	0.17%
Ba 233.527	1024511.1	10.093	mg/L	0.1388	10.093	mg/L	0.1388	1.38%
Be 313.107	2491280.0	0.2431	mg/L	0.00315	0.2431	mg/L	0.00315	1.30%
Co 228.616	86901.1	2.3617	mg/L	0.01852	2.3617	mg/L	0.01852	0.78%
Cr 267.716	389130.4	0.9768	mg/L	0.00764	0.9768	mg/L	0.00764	0.78%
Cu 324.752	718143.9	1.2299	mg/L	0.01394	1.2299	mg/L	0.01394	1.62%
Fe 273.955	2915961.1	49.046	mg/L	0.3422	49.046	mg/L	0.3422	0.70%
Mg 279.077	1268434.1	24.675	mg/L	0.3290	24.675	mg/L	0.3290	1.33%
Mn 257.610	1278128.0	2.5271	mg/L	0.03587	2.5271	mg/L	0.03587	1.42%
Ni 231.604	213080.4	2.5768	mg/L	0.01448	2.5768	mg/L	0.01448	0.56%
Pb 220.353	11222.9	0.4870	mg/L	0.00102	0.4870	mg/L	0.00102	0.21%
Sb 206.836	1795.7	0.4602	mg/L	0.00661	0.4602	mg/L	0.00661	1.44%
Se 196.026	1375.2	0.5012	mg/L	0.00200	0.5012	mg/L	0.00200	0.40%
Tl 190.801	1500.6	0.5093	mg/L	0.00065	0.5093	mg/L	0.00065	0.13%

Method: 6010B — Page 14 — Date: 1/24/2003 7:33:00 PM

V 292.402	1049985.8	2.4135	mg/L	0.03404	2.4135	mg/L	0.03404	1.41%
Zn 206.200	280582.6	2.4984	mg/L	0.01789	2.4984	mg/L	0.01789	0.72%
Na 330.237	58672.0	23.806	mg/L	0.1882	23.806	mg/L	0.1882	0.79%
Cd 226.502	102606.7	0.2487	mg/L	0.00145	0.2487	mg/L	0.00145	0.58%
Ti 334.940	2025.7	0.0014	mg/L	0.00001	0.0014	mg/L	0.00001	0.81%
Ca 227.546	18670.7	23.900	mg/L	0.0442	23.900	mg/L	0.0442	0.19%

Sequence No.: 28
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 1/24/2003 7:26:06 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	-20.0	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	11.67%
Al 308.215	-677.1	-0.0117	mg/L	0.00091	-0.0117	mg/L	0.00091	7.77%
As 188.979	2.1	0.0009	mg/L	0.00031	0.0009	mg/L	0.00031	34.57%
Ba 233.527	182.0	0.0018	mg/L	0.00016	0.0018	mg/L	0.00016	9.13%
Be 313.107	967.6	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	23.04%
Co 228.616	15.9	0.0004	mg/L	0.00001	0.0004	mg/L	0.00001	2.48%
Cr 267.716	-8.1	0.0000	mg/L	0.00007	0.0000	mg/L	0.00007	322.47%
Cu 324.752	1980.0	0.0034	mg/L	0.00066	0.0034	mg/L	0.00066	19.50%
Fe 273.955	575.1	0.0097	mg/L	0.00099	0.0097	mg/L	0.00099	10.26%
Mg 279.077	-1021.6	-0.0199	mg/L	0.00184	-0.0199	mg/L	0.00184	9.25%
Mn 257.610	170.3	0.0003	mg/L	0.00003	0.0003	mg/L	0.00003	8.26%
Ni 231.604	14.0	0.0002	mg/L	0.00009	0.0002	mg/L	0.00009	55.00%
Pb 220.353	5.6	0.0002	mg/L	0.00023	0.0002	mg/L	0.00023	94.36%
Sb 206.836	11.6	0.0030	mg/L	0.00005	0.0030	mg/L	0.00005	1.62%
Se 196.026	4.7	0.0017	mg/L	0.00089	0.0017	mg/L	0.00089	51.97%
Tl 190.801	2.1	0.0007	mg/L	0.00010	0.0007	mg/L	0.00010	15.44%
V 292.402	116.5	0.0003	mg/L	0.00014	0.0003	mg/L	0.00014	53.24%
Zn 206.200	621.2	0.0053	mg/L	0.00118	0.0053	mg/L	0.00118	21.42%
Na 330.237	39.5	0.0161	mg/L	0.05006	0.0161	mg/L	0.05006	310.12%
Cd 226.502	12.2	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	4.80%
Ti 334.940	124.5	0.0001	mg/L	0.00007	0.0001	mg/L	0.00007	76.61%
Ca 227.546	-37.7	-0.0487	mg/L	0.00364	-0.0487	mg/L	0.00364	7.47%

Sequence No.: 29
Sample ID: B0113-01B,5278
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 41
Date Collected: 1/24/2003 7:30:08 PM

Sample Prep Volume:
Data Type: Original

Mean Data: B0113-01B,5278

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	-778.3	0.0000	mg/L	0.00054	0.0000	mg/L	0.00054	>999.9%
Al 308.215	667743.3	11.569	mg/L	0.0107	11.569	mg/L	0.0107	0.09%
As 188.979	54.8	0.0254	mg/L	0.00037	0.0254	mg/L	0.00037	1.47%
Ba 233.527	10626.7	0.1040	mg/L	0.00092	0.1040	mg/L	0.00092	0.88%
Be 313.107	306.5	0.0004	mg/L	0.00001	0.0004	mg/L	0.00001	1.92%
Co 228.616	138.9	0.0031	mg/L	0.00009	0.0031	mg/L	0.00009	2.96%
Cr 267.716	7636.4	0.0193	mg/L	0.00001	0.0193	mg/L	0.00001	0.05%
Cu 324.752	17528.0	0.0318	mg/L	0.00026	0.0318	mg/L	0.00026	0.83%
Fe 273.955	1161198.2	18.522	mg/L	0.1637	18.522	mg/L	0.1637	0.88%
Mg 279.077	485411.6	9.4405	mg/L	0.08619	9.4405	mg/L	0.08619	0.91%
Mn 257.610	212833.5	0.4211	mg/L	0.00413	0.4211	mg/L	0.00413	0.98%
Ni 231.604	1779.5	0.0214	mg/L	0.00004	0.0214	mg/L	0.00004	0.21%
Pb 220.353	528.1	0.0242	mg/L	0.00001	0.0242	mg/L	0.00001	0.03%
Sb 206.836	0.3	0.0014	mg/L	0.00027	0.0014	mg/L	0.00027	19.21%
Se 196.026	-3.6	0.0029	mg/L	0.00089	0.0029	mg/L	0.00089	30.25%
Tl 190.801	-10.5	-0.0011	mg/L	0.00008	-0.0011	mg/L	0.00008	7.09%
V 292.402	47479.8	0.1088	mg/L	0.00082	0.1088	mg/L	0.00082	0.75%
Zn 206.200	2709.0	0.0231	mg/L	0.00067	0.0231	mg/L	0.00067	2.95%
Na 330.237	156709.6	63.789	mg/L	0.5908	63.789	mg/L	0.5908	0.93%

Method: 6010B — Page 15 — Date: 1/24/2003 7:41:08 PM

Cd 226.502	457.4	0.0004	mg/L	0.00001	0.0004	mg/L	0.00001	1.82%
Ti 334.940	492936.5	0.3418	mg/L	0.01256	0.3418	mg/L	0.01256	3.68%
Ca 227.546	19177.5	24.567	mg/L	0.0119	24.567	mg/L	0.0119	0.05%

Sequence No.: 30
Sample ID: B0113-01BDUP,5278
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 42
Date Collected: 1/24/2003 7:34:07 PM

Sample Prep Volume:
Data Type: Original

Mean Data: B0113-01BDUP,5278

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	-588.0	0.0007	mg/L	0.00001	0.0007	mg/L	0.00001	1.94%
Al 308.215	680079.4	11.782	mg/L	0.1257	11.782	mg/L	0.1257	1.07%
As 188.979	57.9	0.0267	mg/L	0.00157	0.0267	mg/L	0.00157	5.86%
Ba 233.527	10439.3	0.1021	mg/L	0.00013	0.1021	mg/L	0.00013	0.13%
Be 313.107	307.0	0.0004	mg/L	0.00003	0.0004	mg/L	0.00003	7.22%
Co 228.616	143.7	0.0032	mg/L	0.00017	0.0032	mg/L	0.00017	5.41%
Cr 267.716	7681.7	0.0195	mg/L	0.00023	0.0195	mg/L	0.00023	1.17%
Cu 324.752	18745.9	0.0305	mg/L	0.00004	0.0305	mg/L	0.00004	0.14%
Fe 273.955	1113368.8	18.727	mg/L	0.1429	18.727	mg/L	0.1429	0.76%
Mg 279.077	489434.0	9.5182	mg/L	0.10065	9.5182	mg/L	0.10065	1.06%
Mn 257.610	215650.8	0.4267	mg/L	0.00175	0.4267	mg/L	0.00175	0.41%
Ni 231.604	1788.2	0.0215	mg/L	0.00005	0.0215	mg/L	0.00005	0.21%
Pb 220.353	590.4	0.0243	mg/L	0.00005	0.0243	mg/L	0.00005	0.23%
Sb 206.836	-0.9	0.0011	mg/L	0.00008	0.0011	mg/L	0.00008	7.06%
Se 196.026	-6.7	0.0018	mg/L	0.00038	0.0018	mg/L	0.00038	20.65%
Tl 190.801	-10.3	-0.0010	mg/L	0.00000	-0.0010	mg/L	0.00000	0.31%
V 292.402	48209.5	0.1104	mg/L	0.00135	0.1104	mg/L	0.00135	1.22%
Zn 206.200	2536.9	0.0216	mg/L	0.00017	0.0216	mg/L	0.00017	0.79%
Na 330.237	159047.8	64.736	mg/L	0.6708	64.736	mg/L	0.6708	1.04%
Cd 226.502	456.3	0.0004	mg/L	0.00002	0.0004	mg/L	0.00002	5.38%
Ti 334.940	475667.5	0.3298	mg/L	0.00257	0.3298	mg/L	0.00257	0.78%
Ca 227.546	19227.3	24.630	mg/L	0.0424	24.630	mg/L	0.0424	0.17%

Sequence No.: 31
Sample ID: B0113-01BMS,5278
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 43
Date Collected: 1/24/2003 7:38:07 PM

Sample Prep Volume:
Data Type: Original

Mean Data: B0113-01BMS,5278

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	285611.7	1.0923	mg/L	0.01321	1.0923	mg/L	0.01321	1.21%
Al 308.215	1661599.2	28.787	mg/L	0.1975	28.787	mg/L	0.1975	0.69%
As 188.978	1130.6	0.4909	mg/L	0.00127	0.4909	mg/L	0.00127	0.26%
Ba 233.527	924637.4	9.1063	mg/L	0.05528	9.1063	mg/L	0.05528	0.61%
Be 313.107	2318916.0	0.2267	mg/L	0.00159	0.2267	mg/L	0.00159	0.70%
Co 228.616	79658.1	2.1640	mg/L	0.00921	2.1640	mg/L	0.00921	0.43%
Cr 267.716	366513.2	0.9203	mg/L	0.00685	0.9203	mg/L	0.00685	0.74%
Cu 324.752	699932.6	1.1853	mg/L	0.01201	1.1853	mg/L	0.01201	1.02%
Fe 273.955	1495019.6	25.114	mg/L	0.1373	25.114	mg/L	0.1373	0.55%
Mg 279.077	1650482.8	32.103	mg/L	0.0871	32.103	mg/L	0.0871	0.27%
Mn 257.610	1388613.6	2.7469	mg/L	0.01436	2.7469	mg/L	0.01436	0.52%
Ni 231.604	197400.7	2.3871	mg/L	0.01832	2.3871	mg/L	0.01832	0.77%
Pb 220.353	11211.4	0.4841	mg/L	0.00066	0.4841	mg/L	0.00066	0.14%
Sb 206.836	1659.4	0.4268	mg/L	0.00274	0.4268	mg/L	0.00274	0.64%
Se 196.026	1250.2	0.4605	mg/L	0.00170	0.4605	mg/L	0.00170	0.37%
Tl 190.801	1375.6	0.4694	mg/L	0.00058	0.4694	mg/L	0.00058	0.12%
V 292.402	1016558.0	2.3363	mg/L	0.01951	2.3363	mg/L	0.01951	0.83%
Zn 206.200	261844.2	2.3304	mg/L	0.00820	2.3304	mg/L	0.00820	0.35%
Na 330.237	224858.0	91.479	mg/L	0.8157	91.479	mg/L	0.8157	0.89%
Cd 226.502	96432.8	0.2329	mg/L	0.00147	0.2329	mg/L	0.00147	0.63%
Ti 334.940	646447.6	0.4482	mg/L	0.01388	0.4482	mg/L	0.01388	3.10%

Saturated within auto integration window (code 4)

Ca 227.546	37608.1	48.156	mg/L	0.7417	48.156	mg/L	0.7417 1.54%

Sequence No.: 32 Autosampler Location: 44
Sample ID: B0113-01BPDS,5278 Date Collected: 1/24/2003 7:42:15 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: B0113-01BPDS,5278

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	276057.0	1.0555	mg/L	0.00093	1.0555	mg/L	0.00093	0.09%
Al 308.215	1361825.0	23.594	mg/L	0.1493	23.594	mg/L	0.1493	0.63%
As 188.979	1132.9	0.4917	mg/L	0.00186	0.4917	mg/L	0.00186	0.38%
Ba 233.527	936294.8	9.2232	mg/L	0.06431	9.2232	mg/L	0.06431	0.70%
Be 313.107	2357047.3	0.2304	mg/L	0.00164	0.2304	mg/L	0.00164	0.71%
Co 228.616	89724.3	2.1931	mg/L	0.00915	2.1931	mg/L	0.00915	0.42%
Cr 267.716	368648.6	0.9251	mg/L	0.00548	0.9251	mg/L	0.00548	0.59%
Cu 324.752	700298.1	1.2011	mg/L	0.00893	1.2011	mg/L	0.00893	0.74%
Fe 273.955	1357232.7	22.829	mg/L	0.1529	22.829	mg/L	0.1529	0.67%
Mg 279.077	1651582.8	32.126	mg/L	0.2798	32.126	mg/L	0.2798	0.87%
Mn 257.610	1402845.9	2.7740	mg/L	0.02004	2.7740	mg/L	0.02504	0.90%
Ni 231.604	199159.2	2.4083	mg/L	0.00543	2.4083	mg/L	0.00543	0.23%
Pb 220.353	11100.1	0.4832	mg/L	0.00141	0.4832	mg/L	0.00141	0.29%
Sb 206.836	1791.8	0.4604	mg/L	0.00216	0.4604	mg/L	0.00216	0.47%
Se 196.026	1259.4	0.4632	mg/L	0.00037	0.4632	mg/L	0.00037	0.08%
Tl 190.801	1389.4	0.4741	mg/L	0.00151	0.4741	mg/L	0.00151	0.32%
V 292.402	1027931.6	2.3624	mg/L	0.01476	2.3624	mg/L	0.01476	0.62%
Zn 206.200	264587.4	2.3549	mg/L	0.00408	2.3549	mg/L	0.00408	0.17%
Na 330.237	217861.6	88.621	mg/L	0.6210	88.621	mg/L	0.6210	0.70%
Cd 226.502	96107.0	0.2322	mg/L	0.00080	0.2322	mg/L	0.00080	0.34%
Ti 334.940	587541.7	0.4073	mg/L	0.01456	0.4073	mg/L	0.01456	3.57%
Ca 227.546	36988.5	47.374	mg/L	0.3628	47.374	mg/L	0.3628	0.77%

Sequence No.: 33 Autosampler Location: 45
Sample ID: B0113-02B,5278 Date Collected: 1/24/2003 7:46:25 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: B0113-02B,5278

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-276.8	0.0000	mg/L	0.00098	0.0000	mg/L	0.00098	355.94%
Al 308.215	562758.4	9.7497	mg/L	0.24111	9.7497	mg/L	0.24111	2.47%
As 188.979	20.1	0.0094	mg/L	0.00018	0.0094	mg/L	0.00018	1.96%
Ba 233.527	4499.3	0.0441	mg/L	0.00131	0.0441	mg/L	0.00131	2.97%
Be 313.107	-1114.1	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	4.23%
Co 228.616	105.0	0.0023	mg/L	0.00010	0.0023	mg/L	0.00010	4.29%
Cr 267.716	4120.1	0.0104	mg/L	0.00016	0.0104	mg/L	0.00016	1.50%
Cu 324.752	7668.2	0.0136	mg/L	0.00112	0.0136	mg/L	0.00112	8.22%
Fe 273.955	350758.3	6.6566	mg/L	0.01383	6.6566	mg/L	0.01383	0.21%
Mg 279.077	166415.1	3.2363	mg/L	0.02495	3.2363	mg/L	0.02495	0.77%
Mn 257.610	73580.4	0.1456	mg/L	0.00023	0.1456	mg/L	0.00023	0.16%
Ni 231.604	776.4	0.0093	mg/L	0.00018	0.0093	mg/L	0.00018	1.96%
Pb 220.353	185.7	0.0091	mg/L	0.00003	0.0091	mg/L	0.00003	0.31%
Sb 206.836	6.4	0.0023	mg/L	0.00080	0.0023	mg/L	0.00080	34.59%
Se 196.026	1.8	0.0022	mg/L	0.00080	0.0022	mg/L	0.00080	36.63%
Tl 190.801	-6.3	-0.0009	mg/L	0.00162	-0.0009	mg/L	0.00162	172.86%
V 292.402	18196.4	0.0416	mg/L	0.00013	0.0416	mg/L	0.00013	0.31%
Zn 206.200	1258.3	0.0106	mg/L	0.00073	0.0106	mg/L	0.00073	6.93%
Na 330.237	48792.1	19.933	mg/L	0.2449	19.933	mg/L	0.2449	1.23%
Cd 226.502	155.2	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	10.90%
Ti 334.940	546664.6	0.3789	mg/L	0.03856	0.3789	mg/L	0.03856	10.18%
Ca 227.546	6287.0	8.0514	mg/L	0.01540	8.0514	mg/L	0.01540	0.19%

Sequence No.: 34 Autosampler Location: 46
Sample ID: MB-5238,5278 Date Collected: 1/24/2003 7:50:26 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: MB-5238,5278

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-31.1	-0.0001	mg/L	0.00006	-0.0001	mg/L	0.00006	50.89%
Al 308.215	-298.7	-0.0052	mg/L	0.00631	-0.0052	mg/L	0.00633	122.31%
As 188.979	0.0	0.0000	mg/L	0.00011	0.0000	mg/L	0.00011	648.56%
Ba 233.527	184.2	0.0018	mg/L	0.00019	0.0018	mg/L	0.00019	10.67%
Be 313.107	697.8	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	10.76%
Co 228.616	28.4	0.0008	mg/L	0.00007	0.0008	mg/L	0.00007	8.48%
Cr 267.716	103.6	0.0003	mg/L	0.00016	0.0003	mg/L	0.00016	62.94%
Cu 324.752	1169.5	0.0020	mg/L	0.00023	0.0020	mg/L	0.00023	11.42%
Fe 273.955	1468.8	0.0247	mg/L	0.00012	0.0247	mg/L	0.00015	0.59%
Mg 279.077	181.2	0.0035	mg/L	0.00783	0.0035	mg/L	0.00783	221.66%
Mn 257.610	937.5	0.0019	mg/L	0.00001	0.0019	mg/L	0.00001	0.36%
Ni 231.604	65.0	0.0008	mg/L	0.00007	0.0008	mg/L	0.00007	8.99%
Pb 220.353	13.7	0.0006	mg/L	0.00017	0.0006	mg/L	0.00017	28.53%
Sb 206.836	0.1	0.0000	mg/L	0.00030	0.0000	mg/L	0.00030	802.14%
Se 196.026	-0.6	-0.0002	mg/L	0.00068	-0.0002	mg/L	0.00068	338.55%
Tl 190.801	1.4	0.0005	mg/L	0.00034	0.0005	mg/L	0.00034	69.88%
V 292.402	123.7	0.0003	mg/L	0.00005	0.0003	mg/L	0.00005	19.31%
Zn 206.200	629.8	0.0056	mg/L	0.00017	0.0056	mg/L	0.00017	3.00%
Na 330.237	2101.7	0.8541	mg/L	0.07353	0.8541	mg/L	0.07353	8.61%
Cd 226.502	-15.2	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	53.85%
Ti 334.940	541.9	0.0004	mg/L	0.00000	0.0004	mg/L	0.00000	0.14%
Ca 227.546	203.9	0.2627	mg/L	0.01768	0.2627	mg/L	0.01768	6.73%

Sequence No.: 35 Autosampler Location: 3
Sample ID: CCV Date Collected: 1/24/2003 7:54:26 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	300670.3	1.1465	mg/L	0.00054	1.1465	mg/L	0.00054	0.05%
Al 308.215	548259.0	9.4985	mg/L	0.10521	9.4985	mg/L	0.10521	1.11%
As 188.979	1132.2	0.4901	mg/L	0.00113	0.4901	mg/L	0.00113	0.23%
Ba 233.527	1023169.1	10.080	mg/L	0.0388	10.080	mg/L	0.0388	0.38%
Be 313.107	2476002.0	0.2416	mg/L	0.00068	0.2416	mg/L	0.00068	0.28%
Co 228.616	88244.0	2.3982	mg/L	0.02716	2.3982	mg/L	0.02716	1.13%
Cr 267.716	391835.3	0.9836	mg/L	0.00891	0.9836	mg/L	0.00891	0.91%
Cu 324.752	708180.6	1.2128	mg/L	0.00098	1.2128	mg/L	0.00098	0.08%
Fe 273.955	293627.4	4.9388	mg/L	0.04912	4.9388	mg/L	0.04912	0.99%
Mg 279.077	1267793.6	24.662	mg/L	0.1054	24.662	mg/L	0.1054	0.43%
Mn 257.610	1270095.0	2.5112	mg/L	0.01147	2.5112	mg/L	0.01147	0.46%
Ni 231.604	214198.5	2.5904	mg/L	0.03609	2.5904	mg/L	0.03609	1.39%
Pb 220.353	11333.1	0.4918	mg/L	0.00012	0.4918	mg/L	0.00012	0.02%
Sb 206.836	1804.9	0.4625	mg/L	0.00638	0.4625	mg/L	0.00638	1.38%
Se 196.026	1366.0	0.4979	mg/L	0.00034	0.4979	mg/L	0.00034	0.07%
Tl 190.801	1504.5	0.5106	mg/L	0.00154	0.5106	mg/L	0.00154	0.30%
V 292.402	1040547.2	2.3919	mg/L	0.00985	2.3919	mg/L	0.00985	0.37%
Zn 206.200	282847.9	2.5186	mg/L	0.01534	2.5186	mg/L	0.01534	0.61%
Na 330.237	59372.8	24.091	mg/L	0.3356	24.091	mg/L	0.3356	1.39%
Cd 226.502	103237.3	0.2502	mg/L	0.00239	0.2502	mg/L	0.00238	0.95%
Ti 334.940	2198.5	0.0015	mg/L	0.00004	0.0015	mg/L	0.00008	5.32%
Ca 227.546	18623.7	23.839	mg/L	0.0182	23.839	mg/L	0.0182	0.08%

Sequence No.: 36 Autosampler Location: 4
Sample ID: CCB Date Collected: 1/24/2003 7:58:35 PM
Analyst:

Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-4.3	0.0000	mg/L	0.00017	0.0000	mg/L	0.00017	>999.9%
Al 308.215	-561.9	-0.0097	mg/L	0.00531	-0.0097	mg/L	0.00531	54.59%
As 188.979	*1.2*	*0.0003*	*mg/L*	*0.00068*	*0.0003*	*mg/L*	*0.00068*	*140.68%*
Ba 233.527	160.4	0.0016	mg/L	0.00019	0.0016	mg/L	0.00019	12.05%
Be 313.107	971.5	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	25.58%
Co 228.616	13.1	0.0004	mg/L	0.00023	0.0004	mg/L	0.00023	66.62%
Cr 267.716	-15.4	0.0000	mg/L	0.00004	0.0000	mg/L	0.00004	100.80%
Cu 324.752	1754.3	0.0030	mg/L	0.00051	0.0030	mg/L	0.00051	16.86%
Fe 273.955	345.1	0.0058	mg/L	0.00078	0.0058	mg/L	0.00078	13.38%
Mg 279.077	-919.2	-0.0179	mg/L	0.00367	-0.0179	mg/L	0.00367	20.52%
Mn 257.610	164.4	0.0003	mg/L	0.00004	0.0003	mg/L	0.00004	11.18%
Ni 231.604	34.7	0.0004	mg/L	0.00016	0.0004	mg/L	0.00016	37.79%
Pb 220.353	4.7	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	25.45%
Sb 206.836	12.3	0.0031	mg/L	0.00132	0.0031	mg/L	0.00132	42.06%
Se 196.026	8.4	0.0031	mg/L	0.00007	0.0031	mg/L	0.00007	2.22%
Tl 190.801	1.2	0.0004	mg/L	0.00120	0.0004	mg/L	0.00129	292.93%
V 292.402	152.2	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	3.95%
Zn 206.200	626.9	0.0056	mg/L	0.00120	0.0056	mg/L	0.00120	21.53%
Na 330.237	-39.1	-0.0155	mg/L	0.02459	-0.0155	mg/L	0.02459	158.94%
Cd 226.502	5.2	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	42.21%
Ti 334.940	2134.7	0.0015	mg/L	0.00177	0.0015	mg/L	0.00177	119.63%
Ca 227.546	-30.8	-0.0399	mg/L	0.02247	-0.0399	mg/L	0.02247	56.34%

Sequence No.: 37 Autosampler Location: 47
Sample ID: B0113-01C,5278 Date Collected: 1/24/2003 8:02:37 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: B0113-01C,5278

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	108.5	-0.0001	mg/L	0.00043	-0.0001	mg/L	0.00043	337.03%
Al 308.215	-574.2	-0.0099	mg/L	0.00152	-0.0099	mg/L	0.00152	15.24%
As 188.979	1.5	0.0006	mg/L	0.00057	0.0006	mg/L	0.00057	92.26%
Ba 233.527	3065.7	0.0695	mg/L	0.00097	0.0695	mg/L	0.00087	1.25%
Be 313.107	630.8	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	29.31%
Co 228.616	47.7	0.0013	mg/L	0.00006	0.0013	mg/L	0.00006	4.37%
Cr 267.716	208.3	0.0005	mg/L	0.00003	0.0005	mg/L	0.00003	7.43%
Cu 324.752	2791.7	0.0043	mg/L	0.00070	0.0043	mg/L	0.00070	16.19%
Fe 273.955	1031.7	0.0174	mg/L	0.00078	0.0174	mg/L	0.00078	4.51%
Mg 279.077	435423.8	9.6341	mg/L	0.20306	9.6341	mg/L	0.20306	2.11%
Mn 257.610	158622.1	0.3135	mg/L	0.00631	0.3135	mg/L	0.00631	2.01%
Ni 231.604	1293.5	0.0156	mg/L	0.00009	0.0156	mg/L	0.00009	0.58%
Pb 220.353	4.0	0.0002	mg/L	0.00026	0.0002	mg/L	0.00026	170.66%
Sb 206.836	6.4	0.0017	mg/L	0.00099	0.0017	mg/L	0.00099	60.16%
Se 196.026	3.9	0.0012	mg/L	0.00234	0.0012	mg/L	0.00234	193.73%
Tl 190.801	-10.0	-0.0020	mg/L	0.00039	-0.0020	mg/L	0.00039	19.07%
V 292.402	131.1	0.0003	mg/L	0.00009	0.0003	mg/L	0.00009	29.09%
Zn 206.200	1743.4	0.0149	mg/L	0.00078	0.0149	mg/L	0.00078	5.23%
Na 330.237	159924.8	64.976	mg/L	1.4679	64.976	mg/L	1.4679	2.26%
Cd 226.502	54.0	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	15.35%
Ti 334.940	1213.5	0.0010	mg/L	0.00005	0.0010	mg/L	0.00005	4.56%
Ca 227.546	19546.0	25.201	mg/L	0.0241	25.201	mg/L	0.0241	0.10%

Sequence No.: 38 Autosampler Location: 48
Sample ID: B0113-01CDUP,5278 Date Collected: 1/24/2003 8:06:38 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: B0113-01CDUP,5278

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	187.4	0.0002	mg/L	0.00013	0.0002	mg/L	0.00013	75.82%
Al 308.215	-531.0	-0.0092	mg/L	0.00048	-0.0092	mg/L	0.00048	5.26%
As 188.979	-0.4	-0.0002	mg/L	0.00137	-0.0002	mg/L	0.00137	806.84%
Ba 233.527	6930.7	0.0681	mg/L	0.00023	0.0681	mg/L	0.00023	0.34%
Be 313.107	545.2	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	30.42%
Co 228.616	*43.9*	*0.0012*	*mg/L*	*0.00009*	*0.0012*	*mg/L*	*0.00009*	*6.69%*
Cr 267.716	236.4	0.0005	mg/L	0.00002	0.0005	mg/L	0.00002	4.59%
Cu 324.752	1559.0	0.0022	mg/L	0.00025	0.0022	mg/L	0.00025	11.54%
Fe 273.955	819.9	0.0138	mg/L	0.00067	0.0138	mg/L	0.00067	4.85%
Mg 279.077	501157.6	9.7456	mg/L	0.11319	9.7456	mg/L	0.11319	1.16%
Mn 257.610	160023.3	0.3163	mg/L	0.00189	0.3163	mg/L	0.00189	0.60%
Ni 231.604	1299.9	0.0157	mg/L	0.00003	0.0157	mg/L	0.00003	0.19%
Pb 220.353	3.8	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	27.16%
Sb 206.836	3.0	0.0008	mg/L	0.00092	0.0008	mg/L	0.00092	118.21%
Se 196.026	8.7	0.0030	mg/L	0.00036	0.0030	mg/L	0.00036	12.29%
Tl 190.801	-11.0	-0.0024	mg/L	0.00132	-0.0024	mg/L	0.00132	56.14%
V 292.402	167.2	0.0004	mg/L	0.00015	0.0004	mg/L	0.00015	37.66%
Zn 206.200	1603.2	0.0137	mg/L	0.00016	0.0137	mg/L	0.00016	1.13%
Na 330.237	161940.8	65.795	mg/L	0.5580	65.795	mg/L	0.5580	0.85%
Cd 226.502	51.1	0.0001	mg/L	0.00000	0.0001	mg/L	0.00001	1.93%
Ti 334.940	1021.5	0.0009	mg/L	0.00004	0.0009	mg/L	0.00004	4.92%
Ca 227.546	19739.0	25.450	mg/L	0.0009	25.450	mg/L	0.0009	0.00%

Sequence No.: 39 Autosampler Location: 49
Sample ID: B0113-01CMS,5278 Date Collected: 1/24/2003 8:10:40 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: B0113-01CMS,5278

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	285634.0	1.0895	mg/L	0.01767	1.0895	mg/L	0.01767	1.62%
Al 308.215	507621.2	8.7945	mg/L	0.08331	8.7945	mg/L	0.08331	0.95%
As 188.979	1062.2	0.4594	mg/L	0.00141	0.4594	mg/L	0.00141	0.31%
Ba 233.527	915569.2	9.0196	mg/L	0.11420	9.0196	mg/L	0.11420	1.27%
Be 313.107	2304044.6	0.2248	mg/L	0.00336	0.2248	mg/L	0.00336	1.49%
Co 228.616	79087.1	2.1494	mg/L	0.02440	2.1494	mg/L	0.02440	1.14%
Cr 267.716	353766.5	0.8880	mg/L	0.00764	0.8880	mg/L	0.00764	0.86%
Cu 324.752	662828.7	1.1347	mg/L	0.01851	1.1347	mg/L	0.01851	1.63%
Fe 273.955	264400.8	4.4472	mg/L	0.03536	4.4472	mg/L	0.03536	0.80%
Mg 279.077	1636669.0	31.835	mg/L	0.4186	31.835	mg/L	0.4186	1.31%
Mn 257.610	1317163.5	2.6042	mg/L	0.03312	2.6042	mg/L	0.03312	1.27%
Ni 231.604	191747.9	2.3188	mg/L	0.00472	2.3188	mg/L	0.00472	0.20%
Pb 220.353	10268.3	0.4455	mg/L	0.00102	0.4455	mg/L	0.00102	0.23%
Sb 206.836	1864.0	0.4773	mg/L	0.00182	0.4773	mg/L	0.00182	0.38%
Se 196.026	1248.0	0.4547	mg/L	0.00094	0.4547	mg/L	0.00094	0.21%
Tl 190.801	1330.3	0.4529	mg/L	0.00030	0.4529	mg/L	0.00030	0.07%
V 292.402	961129.9	2.2093	mg/L	0.03547	2.2093	mg/L	0.03547	1.61%
Zn 206.200	254966.0	2.2697	mg/L	0.01727	2.2697	mg/L	0.01727	0.76%
Na 330.237	221951.1	90.148	mg/L	0.8721	90.148	mg/L	0.8721	0.97%
Cd 226.502	92493.3	0.2242	mg/L	0.00156	0.2242	mg/L	0.00156	0.70%
Ti 334.940	1983.8	0.0016	mg/L	0.00001	0.0016	mg/L	0.00001	0.80%
Ca 227.546	37229.3	47.844	mg/L	0.3139	47.844	mg/L	0.3139	0.66%

Sequence No.: 40 Autosampler Location: 50
Sample ID: B0113-01CSD,5278 Date Collected: 1/24/2003 8:14:51 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: B0113-01CSD,5278

Analyte	Mean Corrected	Calib			Sample			

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	
Ag 328.068	24.1	0.0000	mg/L	0.00009	0.0000	mg/L	0.00009	558.82%
Al 308.215	-656.0	-0.0114	mg/L	0.00356	-0.0114	mg/L	0.00356	31.32%
As 188.979	1.0	0.0004	mg/L	0.00005	0.0004	mg/L	0.00005	11.42%
Ba 233.527	1491.9	0.0147	mg/L	0.00007	0.0147	mg/L	0.00007	1.86%
Be 313.107	665.0	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	11.72%
Co 228.616	10.1	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	3.71%
Cr 267.716	55.9	0.0001	mg/L	0.00019	0.0001	mg/L	0.00019	149.07%
Cu 324.752	2006.5	0.0033	mg/L	0.00056	0.0033	mg/L	0.00056	16.66%
Fe 273.955	307.5	0.0052	mg/L	0.00053	0.0052	mg/L	0.00053	10.20%
Mg 279.077	102264.9	1.9987	mg/L	0.01595	1.9987	mg/L	0.01595	0.80%
Mn 257.610	33523.4	0.0663	mg/L	0.00045	0.0663	mg/L	0.00045	0.68%
Ni 231.604	289.0	0.0035	mg/L	0.00011	0.0035	mg/L	0.00011	3.24%
Pb 220.353	10.9	0.0004	mg/L	0.00009	0.0004	mg/L	0.00009	21.99%
Sb 206.836	3.8	0.0010	mg/L	0.00040	0.0010	mg/L	0.00040	41.70%
Se 196.026	1.9	0.0006	mg/L	0.00029	0.0006	mg/L	0.00029	44.65%
Tl 190.801	1.7	0.0009	mg/L	0.00029	0.0009	mg/L	0.00029	33.89%
V 292.402	90.4	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	1.96%
Zn 206.200	744.5	0.0065	mg/L	0.00055	0.0065	mg/L	0.00055	8.47%
Na 330.237	29560.4	12.910	mg/L	0.1567	12.910	mg/L	0.1567	1.30%
Cd 226.502	24.5	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	21.43%
Ti 334.940	384.7	0.0003	mg/L	0.00005	0.0003	mg/L	0.00005	16.24%
Ca 227.546	3922.3	5.0571	mg/L	0.03283	5.0571	mg/L	0.03283	0.65%

Sequence No.: 41
Sample ID: B0113-01CPDS,5278
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 51
Date Collected: 1/24/2003 8:18:53 PM
Sample Prep Volume:
Data Type: Original

Mean Data: B0113-01CPDS,5278

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	260198.6	1.0298	mg/L	0.00064	1.0298	mg/L	0.00064	0.06%
Al 308.215	517093.1	8.9655	mg/L	0.02854	8.9655	mg/L	0.02854	0.32%
As 188.979	1078.8	0.4666	mg/L	0.00036	0.4666	mg/L	0.00036	0.08%
Ba 233.527	929483.8	9.1568	mg/L	0.05826	9.1568	mg/L	0.05826	0.64%
Be 313.107	2356220.0	0.2299	mg/L	0.00184	0.2299	mg/L	0.00184	0.80%
Co 228.616	79068.7	2.1489	mg/L	0.00202	2.1489	mg/L	0.00202	0.09%
Cr 267.716	360197.4	0.9041	mg/L	0.00217	0.9041	mg/L	0.00217	0.24%
Cu 324.752	681008.9	1.1658	mg/L	0.00949	1.1658	mg/L	0.00949	0.81%
Fe 273.955	268274.7	4.5124	mg/L	0.00758	4.5124	mg/L	0.00758	0.17%
Mg 279.077	1654091.3	32.174	mg/L	0.1672	32.174	mg/L	0.1672	0.52%
Mn 257.610	1347675.8	2.6645	mg/L	0.02056	2.6645	mg/L	0.02056	0.77%
Ni 231.604	197029.0	2.3827	mg/L	0.01494	2.3827	mg/L	0.01494	0.63%
Pb 220.353	10508.0	0.4559	mg/L	0.00065	0.4559	mg/L	0.00065	0.14%
Sb 206.836	1815.0	0.4649	mg/L	0.00091	0.4649	mg/L	0.00091	0.20%
Se 196.026	1281.9	0.4670	mg/L	0.00170	0.4670	mg/L	0.00170	0.36%
Tl 190.801	1383.5	0.4709	mg/L	0.00201	0.4709	mg/L	0.00201	0.43%
V 292.402	981280.7	2.2556	mg/L	0.02031	2.2556	mg/L	0.02031	0.90%
Zn 206.200	259428.8	2.3095	mg/L	0.00736	2.3095	mg/L	0.00736	0.32%
Na 330.237	218647.4	88.804	mg/L	0.3239	88.804	mg/L	0.3239	0.36%
Cd 226.502	94879.1	0.2300	mg/L	0.00019	0.2300	mg/L	0.00019	0.08%
Ti 334.940	2012.2	0.0016	mg/L	0.00010	0.0016	mg/L	0.00010	6.20%
Ca 227.546	37183.7	47.782	mg/L	0.0687	47.782	mg/L	0.0687	0.14%

Sequence No.: 42
Sample ID: B0113-02C,5278
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 52
Date Collected: 1/24/2003 8:23:04 PM
Sample Prep Volume:
Data Type: Original

Mean Data: B0113-02C,5278

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	65.0	0.0002	mg/L	0.00016	0.0002	mg/L	0.00016	65.95%
Al 308.215	-599.5	-0.0104	mg/L	0.00440	-0.0104	mg/L	0.00440	42.41%

As 188.979	3.6	0.0016	mg/L	0.00104	0.0016	mg/L	0.00104	66.55%
Ba 233.527	330.5	0.0033	mg/L	0.00099	0.0033	mg/L	0.00099	30.42%
Be 313.107	729.6	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	14.20%
Co 228.616	36.9	0.0008	mg/L	0.00006	0.0008	mg/L	0.00006	6.72%
Cr 267.716	399.5	0.0010	mg/L	0.00016	0.0010	mg/L	0.00016	15.67%
Cu 324.752	2685.5	0.0046	mg/L	0.00098	0.0046	mg/L	0.00098	21.19%
Fe 273.955	1146.6	0.0192	mg/L	0.00032	0.0192	mg/L	0.00032	1.69%
Mg 279.077	1952.2	0.0380	mg/L	0.01860	0.0380	mg/L	0.01860	48.96%
Mn 257.610	2324.1	0.0046	mg/L	0.00056	0.0046	mg/L	0.00056	1.35%
Ni 231.604	86.7	0.0010	mg/L	0.00013	0.0010	mg/L	0.00013	12.02%
Pb 220.353	1.5	0.0001	mg/L	0.00015	0.0001	mg/L	0.00015	235.83%
Sb 206.836	3.6	0.0009	mg/L	0.00032	0.0009	mg/L	0.00032	35.41%
Se 196.026	4.7	0.0017	mg/L	0.00060	0.0017	mg/L	0.00060	35.22%
Tl 190.801	0.3	0.0001	mg/L	0.00039	0.0001	mg/L	0.00039	320.87%
V 292.402	60.1	0.0001	mg/L	0.00014	0.0001	mg/L	0.00014	101.69%
Zn 206.200	490.7	0.0044	mg/L	0.00089	0.0044	mg/L	0.00089	20.45%
Na 330.237	510.5	0.2073	mg/L	0.06064	0.2073	mg/L	0.06064	29.24%
Cd 226.502	-3.9	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	263.96%
Ti 334.940	344.7	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	13.64%
Ca 227.546	149.9	0.1930	mg/L	0.00011	0.1930	mg/L	0.00011	0.06%

Sequence No.: 43
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 1/24/2003 8:27:07 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	-6510.9	-0.0048	mg/L	0.00036	-0.0048	mg/L	0.00036	7.46%
Al 308.215	26864643.0	465.43	mg/L	2.432	465.43	mg/L	2.432	0.52%
As 188.979	-35.2	0.0009	mg/L	0.01833	0.0009	mg/L	0.01833	>999.9%
Ba 233.527	911.1	0.0002	mg/L	0.00056	0.0002	mg/L	0.00056	331.63%
Be 313.107	2081.5	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	1.46%
Co 228.616	-118.3	-0.0041	mg/L	0.00057	-0.0041	mg/L	0.00057	13.84%
Cr 267.716	-737.1	0.0002	mg/L	0.00006	0.0002	mg/L	0.00006	26.74%
Cu 324.752	-9331.4	0.0054	mg/L	0.00005	0.0054	mg/L	0.00005	0.86%
Fe 273.955	9825499.5	165.26	mg/L	0.491	165.26	mg/L	0.491	0.30%
Mg 279.077	23573213.0	458.33	mg/L	1.127	458.33	mg/L	1.127	0.25%
Mn 257.610	-10877.0	-0.0228	mg/L	0.00094	-0.0228	mg/L	0.00094	0.16%
Ni 231.604	111.9	0.0014	mg/L	0.00044	0.0014	mg/L	0.00044	32.26%
Pb 220.353	-729.8	0.0046	mg/L	0.00176	0.0046	mg/L	0.00176	37.93%
Sb 206.836	-28.5	0.0029	mg/L	0.00681	0.0029	mg/L	0.00681	270.57%
Se 196.026	-132.6	-0.0047	mg/L	0.00866	-0.0047	mg/L	0.00866	186.01%
Tl 190.801	-11.3	-0.0034	mg/L	0.00861	-0.0034	mg/L	0.00861	252.49%
V 292.402	-73.6	-0.0015	mg/L	0.00003	-0.0015	mg/L	0.00003	1.80%
Zn 206.200	2055.9	-0.0054	mg/L	0.00022	-0.0054	mg/L	0.00022	4.02%
Na 330.237	890.1	0.1238	mg/L	0.04039	0.1238	mg/L	0.04039	32.63%
Cd 226.502	4149.2	0.0036	mg/L	0.00003	0.0036	mg/L	0.00003	0.76%
Ti 334.940	8944.8	0.0096	mg/L	0.00002	0.0096	mg/L	0.00002	0.16%
Ca 227.546	380760.1	489.72	mg/L	0.469	489.72	mg/L	0.469	0.08%

Sequence No.: 44
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 1/24/2003 8:29:46 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	49747.9	0.1954	mg/L	0.00042	0.1954	mg/L	0.00042	0.22%
Al 308.215	26696804.2	497.17	mg/L	2.326	497.17	mg/L	2.326	0.47%
As 188.979	206.0	0.1090	mg/L	0.00449	0.1090	mg/L	0.00449	4.12%
Ba 233.527	52520.4	0.5090	mg/L	0.00307	0.5090	mg/L	0.00307	0.60%
Be 313.107	5254985.1	0.5127	mg/L	0.00251	0.5127	mg/L	0.00251	0.49%

Co 228.616	16381.1	0.4442	mg/L	0.00041	0.4442	mg/L	0.00041	0.09%
Cr 267.716	197859.1	0.4988	mg/L	0.00245	0.4988	mg/L	0.00245	0.49%
Cu 324.752	310224.0	0.5544	mg/L	0.00686	0.5544	mg/L	0.00686	1.24%
Fe 273.955	10413272.5	175.15	mg/L	0.421	175.15	mg/L	0.421	0.24%
Mg 279.077	25029215.7	486.64	mg/L	0.810	486.64	mg/L	0.810	0.17%
Mn 257.610	251702.4	0.4964	mg/L	0.00273	0.4964	mg/L	0.00273	0.55%
Ni 231.604	81838.3	0.9898	mg/L	0.00856	0.9898	mg/L	0.00856	0.86%
Pb 220.353	9937.5	0.4690	mg/L	0.00125	0.4690	mg/L	0.00125	0.27%
Sb 206.836	2414.1	0.6247	mg/L	0.00457	0.6247	mg/L	0.00457	0.73%
Se 196.026	1326.5	0.5308	mg/L	0.01527	0.5308	mg/L	0.01527	2.88%
Tl 190.801	*290.5*	*0.0989*	*mg/L*	*0.00312*	*0.0989*	*mg/L*	*0.00312*	*3.16%*
V 292.402	219179.5	0.5030	mg/L	0.00269	0.5030	mg/L	0.00269	0.54%
Zn 206.200	107983.7	0.9371	mg/L	0.00506	0.9371	mg/L	0.00506	0.54%
Na 330.237	128207.5	51.842	mg/L	0.5006	51.842	mg/L	0.5006	0.97%
Cd 226.502	399104.4	0.9592	mg/L	0.00507	0.9592	mg/L	0.00507	0.53%
Ti 334.940	8940.8	0.0098	mg/L	0.00012	0.0098	mg/L	0.00012	1.27%
Ca 227.546	411920.8	529.78	mg/L	4.145	529.78	mg/L	4.145	0.78%

Sequence No.: 45
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 1/24/2003 8:32:30 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	303800.9	1.1084	mg/L	0.01511	1.1084	mg/L	0.01511	1.30%
Al 308.215	542345.1	9.3961	mg/L	0.07601	9.3961	mg/L	0.07601	0.81%
As 188.979	1125.5	0.4871	mg/L	0.00332	0.4871	mg/L	0.00332	0.68%
Ba 233.527	1033759.3	10.184	mg/L	0.0830	10.184	mg/L	0.0830	0.81%
Be 313.107	2516251.2	0.2455	mg/L	0.00208	0.2455	mg/L	0.00208	0.85%
Co 228.616	86753.1	2.3577	mg/L	0.00922	2.3577	mg/L	0.00922	0.39%
Cr 267.716	388677.3	0.9742	mg/L	0.00603	0.9742	mg/L	0.00603	0.62%
Cu 324.752	727650.8	1.2451	mg/L	0.01271	1.2451	mg/L	0.01271	1.02%
Fe 273.955	290793.8	4.8911	mg/L	0.02502	4.8911	mg/L	0.02502	0.51%
Mg 279.077	1283651.3	24.959	mg/L	0.1267	24.959	mg/L	0.1267	0.51%
Mn 257.610	1293932.7	2.5582	mg/L	0.01541	2.5582	mg/L	0.01541	0.60%
Ni 231.604	213313.0	2.5797	mg/L	0.01885	2.5797	mg/L	0.01885	0.73%
Pb 220.353	11268.0	0.4889	mg/L	0.00061	0.4889	mg/L	0.00061	0.12%
Sb 206.836	1792.5	0.4594	mg/L	0.00782	0.4594	mg/L	0.00782	1.70%
Se 196.026	1382.5	0.5039	mg/L	0.00095	0.5039	mg/L	0.00095	0.19%
Tl 190.801	1498.9	0.5088	mg/L	0.00012	0.5088	mg/L	0.00012	0.02%
V 292.402	1060261.8	2.4371	mg/L	0.02384	2.4371	mg/L	0.02384	0.98%
Zn 206.200	280558.3	2.4982	mg/L	0.01734	2.4982	mg/L	0.01734	0.69%
Na 330.237	58641.7	23.793	mg/L	0.1814	23.793	mg/L	0.1814	0.76%
Cd 226.502	102276.2	0.2479	mg/L	0.00178	0.2479	mg/L	0.00178	0.72%
Ti 334.940	2009.1	0.0014	mg/L	0.00002	0.0014	mg/L	0.00002	1.64%
Ca 227.546	18706.4	23.945	mg/L	0.0111	23.945	mg/L	0.0111	0.05%

Sequence No.: 46
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 1/24/2003 8:36:39 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	117.5	0.0004	mg/L	0.00008	0.0004	mg/L	0.00008	18.64%
Al 308.215	-808.0	-0.0140	mg/L	0.00150	-0.0140	mg/L	0.00150	10.69%
As 188.979	0.5	0.0002	mg/L	0.00078	0.0002	mg/L	0.00078	346.78%
Ba 233.527	187.5	0.0018	mg/L	0.00016	0.0018	mg/L	0.00016	8.74%
Be 313.107	1024.2	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	15.01%
Co 228.616	15.7	0.0004	mg/L	0.00017	0.0004	mg/L	0.00017	40.52%
Cr 267.716	32.5	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	41.23%
Cu 324.752	2066.3	0.0035	mg/L	0.00073	0.0035	mg/L	0.00073	20.66%

Fe 273.955	492.0	0.0083	mg/L	0.00009	0.0083	mg/L	0.00009	11.94%
Mg 279.077	-1046.3	-0.0203	mg/L	0.00177	-0.0203	mg/L	0.00177	8.69%
Mn 257.610	177.0	0.0004	mg/L	0.00003	0.0004	mg/L	0.00003	9.21%
Ni 231.604	23.2	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	2.80%
Pb 220.353	2.0	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	24.30%
Sb 206.836	11.7	0.0030	mg/L	0.00064	0.0030	mg/L	0.00064	21.54%
Se 196.026	6.9	0.0025	mg/L	0.00151	0.0025	mg/L	0.00151	59.33%
Tl 190.801	2.2	0.0007	mg/L	0.00101	0.0007	mg/L	0.00101	134.98%
V 292.402	138.6	0.0003	mg/L	0.00004	0.0003	mg/L	0.00004	12.10%
Zn 206.200	616.5	0.0055	mg/L	0.00116	0.0055	mg/L	0.00116	21.17%
Na 330.237	-69.1	-0.0280	mg/L	0.10918	-0.0280	mg/L	0.10918	389.27%
Cd 226.502	23.3	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	2.71%
Ti 334.940	127.0	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	15.13%
Ca 227.546	-15.4	-0.0199	mg/L	0.02173	-0.0199	mg/L	0.02173	108.94%

Sequence No.: 47
Sample ID: LCS-5277,5277
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 54
Date Collected: 1/24/2003 8:40:42 PM
Sample Prep Volume:
Data Type: Original

Mean Data: LCS-5277,5277

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	283930.0	1.0826	mg/L	0.00526	1.0826	mg/L	0.00526	0.49%
Al 308.215	507862.2	8.7987	mg/L	0.16624	8.7987	mg/L	0.16624	1.89%
As 188.979	1085.3	0.4694	mg/L	0.00166	0.4694	mg/L	0.00166	0.35%
Ba 233.527	920009.3	9.0635	mg/L	0.00929	9.0635	mg/L	0.00929	0.10%
Be 313.107	2324287.7	0.2268	mg/L	0.00020	0.2268	mg/L	0.00020	0.09%
Co 228.616	79738.6	2.1671	mg/L	0.02604	2.1671	mg/L	0.02604	1.20%
Cr 267.716	360926.5	0.9060	mg/L	0.01252	0.9060	mg/L	0.01252	1.38%
Cu 324.752	662529.0	1.1346	mg/L	0.00013	1.1346	mg/L	0.00013	0.01%
Fe 273.955	270134.2	4.5436	mg/L	0.05588	4.5436	mg/L	0.05588	1.23%
Mg 279.077	1165189.4	22.667	mg/L	0.0448	22.667	mg/L	0.0448	0.20%
Mn 257.610	1186925.0	2.3468	mg/L	0.00593	2.3468	mg/L	0.00593	0.25%
Ni 231.604	197941.4	2.3938	mg/L	0.01691	2.3938	mg/L	0.01691	0.71%
Pb 220.353	10771.5	0.4673	mg/L	0.00104	0.4673	mg/L	0.00104	0.22%
Sb 206.836	1862.2	0.4768	mg/L	0.00038	0.4768	mg/L	0.00038	0.08%
Se 196.026	1306.7	0.4763	mg/L	0.00078	0.4763	mg/L	0.00078	0.16%
Tl 190.801	1432.1	0.4860	mg/L	0.00076	0.4860	mg/L	0.00076	0.16%
V 292.402	964071.5	2.2160	mg/L	0.00578	2.2160	mg/L	0.00578	0.26%
Zn 206.200	260717.2	2.3215	mg/L	0.01174	2.3215	mg/L	0.01174	0.51%
Na 330.237	53568.6	21.734	mg/L	0.4243	21.734	mg/L	0.4243	1.95%
Cd 226.502	98025.3	0.2376	mg/L	0.00223	0.2376	mg/L	0.00223	0.94%
Ti 334.940	1328.6	0.0009	mg/L	0.00005	0.0009	mg/L	0.00005	5.63%
Ca 227.546	17458.3	22.350	mg/L	0.0531	22.350	mg/L	0.0531	0.24%

Sequence No.: 48
Sample ID: MB-5234,5277
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 68
Date Collected: 1/24/2003 8:44:55 PM
Sample Prep Volume:
Data Type: Original

Mean Data: MB-5234,5277

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Ag 328.068	129.2	0.0005	mg/L	0.00021	0.0005	mg/L	0.00021	42.36%
Al 308.215	-805.1	-0.0140	mg/L	0.00037	-0.0140	mg/L	0.00037	2.65%
As 188.979	0.6	0.0003	mg/L	0.00055	0.0003	mg/L	0.00055	201.29%
Ba 233.527	2452.2	0.0241	mg/L	0.00120	0.0241	mg/L	0.00120	4.97%
Be 313.107	818.9	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	17.98%
Co 228.616	35.2	0.0010	mg/L	0.00006	0.0010	mg/L	0.00006	6.66%
Cr 267.716	96.3	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	1.15%
Cu 324.752	3412.1	0.0058	mg/L	0.00116	0.0058	mg/L	0.00116	19.86%
Fe 273.955	1402.8	0.0236	mg/L	0.00063	0.0236	mg/L	0.00063	2.67%
Mg 279.077	1089.0	0.0212	mg/L	0.01017	0.0212	mg/L	0.01017	47.91%
Mn 257.610	5764.6	0.0114	mg/L	0.00012	0.0114	mg/L	0.00012	1.06%

Ni 231.604	110.8	0.0013 mg/L	0.00009	0.0013 mg/L	0.00009	6.35%
Pb 220.353	45.6	0.0020 mg/L	0.00031	0.0020 mg/L	0.00031	15.62%
Sb 206.836	4.2	0.0011 mg/L	0.00081	0.0011 mg/L	0.00081	76.30%
Se 196.026	8.1	0.0030 mg/L	0.00078	0.0030 mg/L	0.00078	26.51%
Tl 190.801	4.1	0.0014 mg/L	0.00058	0.0014 mg/L	0.00058	40.09%
V 292.402	35.1	0.0001 mg/L	0.00010	0.0001 mg/L	0.00010	122.65%
Zn 206.200	2195.8	0.0195 mg/L	0.00092	0.0195 mg/L	0.00092	4.71%
Na 330.237	728.1	0.2957 mg/L	0.00968	0.2957 mg/L	0.00968	3.27%
Cd 226.502	21.5	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	50.36%
Tl 334.940	323.4	0.0062 mg/L	0.00001	0.0062 mg/L	0.00001	2.83%
Ca 227.546	219.8	0.2831 mg/L	0.01560	0.2831 mg/L	0.01560	5.51%

Sequence No.: 49 Autosampler Location: 69
Sample ID: B0096-01A,5277 Date Collected: 1/24/2003 8:48:58 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: B0096-01A,5277

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	7.1	0.0001	mg/L	0.00023	0.0001	mg/L	0.00023	169.82%
Al 308.215	35556.3	0.6160	mg/L	0.01139	0.6160	mg/L	0.01139	1.85%
As 188.979	6.2	0.0027	mg/L	0.00078	0.0027	mg/L	0.00078	28.83%
Ba 233.527	6984.8	0.0687	mg/L	0.00035	0.0687	mg/L	0.00035	0.51%
Be 313.107	699.7	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	4.03%
Co 228.616	36.0	0.0009	mg/L	0.00018	0.0009	mg/L	0.00018	18.81%
Cr 267.716	324.9	0.0008	mg/L	0.00001	0.0008	mg/L	0.00001	0.76%
Cu 324.752	2718.2	0.0047	mg/L	0.00049	0.0047	mg/L	0.00049	10.40%
Fe 273.955	38626.0	0.6665	mg/L	0.00951	0.6665	mg/L	0.00951	1.43%
Mg 279.077	64921.1	1.2825	mg/L	0.01013	1.2825	mg/L	0.01013	0.80%
Mn 257.610	9414.6	0.0186	mg/L	0.00029	0.0186	mg/L	0.00029	1.53%
Ni 231.604	163.1	0.0020	mg/L	0.00000	0.0020	mg/L	0.00000	0.20%
Pb 220.353	58.3	0.0026	mg/L	0.00012	0.0026	mg/L	0.00012	4.79%
Sb 206.836	4.4	0.0012	mg/L	0.00004	0.0012	mg/L	0.00004	3.26%
Se 196.026	5.7	0.0022	mg/L	0.00081	0.0022	mg/L	0.00081	36.49%
Tl 190.801	1.0	0.0005	mg/L	0.00072	0.0005	mg/L	0.00072	154.47%
V 292.402	1462.0	0.0033	mg/L	0.00026	0.0033	mg/L	0.00026	7.93%
Zn 206.200	971.7	0.0086	mg/L	0.00022	0.0086	mg/L	0.00022	2.52%
Na 330.237	47855.5	19.458	mg/L	0.3078	19.458	mg/L	0.3078	1.58%
Cd 226.502	22.2	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	15.26%
Tl 334.940	36160.5	0.0250	mg/L	0.00022	0.0250	mg/L	0.00022	0.88%
Ca 227.546	639.5	0.8189	mg/L	0.03361	0.8189	mg/L	0.03361	4.10%

Sequence No.: 50 Autosampler Location: 70
Sample ID: B0096-02A,5277 Date Collected: 1/24/2003 8:53:02 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: B0096-02A,5277

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	65.7	0.0001	mg/L	0.00009	0.0001	mg/L	0.00009	69.30%
Al 308.215	26841.2	0.4650	mg/L	0.00939	0.4650	mg/L	0.00939	2.02%
As 188.979	6.9	0.0030	mg/L	0.00049	0.0030	mg/L	0.00049	16.49%
Ba 233.527	6394.6	0.0629	mg/L	0.00018	0.0629	mg/L	0.00018	0.28%
Be 313.107	607.6	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	25.79%
Co 228.616	36.9	0.0010	mg/L	0.00005	0.0010	mg/L	0.00005	5.11%
Cr 267.716	277.3	0.0007	mg/L	0.00002	0.0007	mg/L	0.00002	2.63%
Cu 324.752	2411.9	0.0041	mg/L	0.00001	0.0041	mg/L	0.00001	0.17%
Fe 273.955	23763.4	0.3997	mg/L	0.00478	0.3997	mg/L	0.00478	1.20%
Mg 279.077	56512.2	1.0988	mg/L	0.02568	1.0988	mg/L	0.02568	2.34%
Mn 257.610	7509.2	0.0148	mg/L	0.00035	0.0148	mg/L	0.00035	2.36%
Ni 231.604	110.9	0.0013	mg/L	0.00000	0.0013	mg/L	0.00000	0.30%
Pb 220.353	30.2	0.0014	mg/L	0.00014	0.0014	mg/L	0.00014	10.57%
Sb 206.836	1.3	0.0004	mg/L	0.00059	0.0004	mg/L	0.00059	153.39%

Se 196.026	4.1	0.0016 mg/L	0.00046	0.0016 mg/L	0.00046	29.33%
Tl 190.801	-2.4	-0.0008 mg/L	0.00014	-0.0008 mg/L	0.00014	18.57%
V 292.402	1831.5	0.0042 mg/L	0.00008	0.0042 mg/L	0.00008	2.02%
Zn 206.200	534.5	0.0047 mg/L	0.00009	0.0047 mg/L	0.00009	1.83%
Na 330.237	7080.6	2.8722 mg/L	0.06612	2.8722 mg/L	0.06612	2.30%
Cd 226.502	14.7	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	41.89%
Tl 334.940	16488.3	0.0115 mg/L	0.00022	0.0115 mg/L	0.00022	1.92%
Ca 227.546	6796.5	8.7597 mg/L	0.00556	8.7597 mg/L	0.00556	0.06%

Sequence No.: 51 Autosampler Location: 71
Sample ID: B0096-03A,5277 Date Collected: 1/24/2003 8:57:06 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: B0096-03A,5277

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	62.5	0.0002	mg/L	0.00026	0.0002	mg/L	0.00026	127.59%
Al 308.215	33405.5	0.5787	mg/L	0.00318	0.5787	mg/L	0.00318	0.55%
As 188.979	7.9	0.0034	mg/L	0.00028	0.0034	mg/L	0.00028	8.38%
Ba 233.527	12088.1	0.1190	mg/L	0.00065	0.1190	mg/L	0.00065	0.54%
Be 313.107	798.4	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	0.87%
Co 228.616	37.8	0.0010	mg/L	0.00006	0.0010	mg/L	0.00006	5.55%
Cr 267.716	447.6	0.0011	mg/L	0.00002	0.0011	mg/L	0.00002	1.47%
Cu 324.752	3598.7	0.0062	mg/L	0.00019	0.0062	mg/L	0.00019	3.07%
Fe 273.955	25325.6	0.4260	mg/L	0.00117	0.4260	mg/L	0.00117	0.27%
Mg 279.077	102555.7	1.9942	mg/L	0.01702	1.9942	mg/L	0.01702	0.85%
Mn 257.610	21006.6	0.0415	mg/L	0.00033	0.0415	mg/L	0.00033	0.79%
Ni 231.604	204.9	0.0025	mg/L	0.00001	0.0025	mg/L	0.00001	0.27%
Pb 220.353	56.8	0.0025	mg/L	0.00013	0.0025	mg/L	0.00013	5.04%
Sb 206.836	2.3	0.0006	mg/L	0.00100	0.0006	mg/L	0.00100	158.24%
Se 196.026	8.8	0.0033	mg/L	0.00251	0.0033	mg/L	0.00251	76.45%
Tl 190.801	-2.0	-0.0005	mg/L	0.00024	-0.0005	mg/L	0.00024	48.74%
V 292.402	1736.7	0.0040	mg/L	0.00012	0.0040	mg/L	0.00012	3.12%
Zn 206.200	1029.8	0.0090	mg/L	0.00004	0.0090	mg/L	0.00004	0.43%
Na 330.237	23695.4	9.6302	mg/L	0.07903	9.6302	mg/L	0.07903	0.82%
Cd 226.502	34.6	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	8.43%
Tl 334.940	21203.9	0.0147	mg/L	0.00034	0.0147	mg/L	0.00034	2.27%
Ca 227.546	3996.2	5.1489	mg/L	0.00165	5.1489	mg/L	0.00165	0.03%

Sequence No.: 52 Autosampler Location: 72
Sample ID: B0096-04A,5277 Date Collected: 1/24/2003 9:01:02 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: B0096-04A,5277

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-21.3	0.0001	mg/L	0.00027	0.0001	mg/L	0.00027	253.67%
Al 308.215	397829.8	6.8924	mg/L	0.06320	6.8924	mg/L	0.06320	0.92%
As 188.979	4.6	0.0021	mg/L	0.00072	0.0021	mg/L	0.00072	34.06%
Ba 233.527	130158.2	1.2815	mg/L	0.01023	1.2815	mg/L	0.01025	0.80%
Be 313.107	16258.8	0.0016	mg/L	0.00001	0.0016	mg/L	0.00001	0.58%
Co 228.616	90.6	0.0024	mg/L	0.00002	0.0024	mg/L	0.00002	0.65%
Cr 267.716	1015.1	0.0025	mg/L	0.00003	0.0025	mg/L	0.00003	1.35%
Cu 324.752	6157.2	0.0104	mg/L	0.00018	0.0104	mg/L	0.00018	1.77%
Fe 273.955	88963.7	1.4964	mg/L	0.01242	1.4964	mg/L	0.01242	0.83%
Mg 279.077	208501.7	4.0551	mg/L	0.04787	4.0551	mg/L	0.04787	1.18%
Mn 257.610	120311.8	0.2379	mg/L	0.00255	0.2379	mg/L	0.00255	1.07%
Ni 231.604	182.1	0.0022	mg/L	0.00005	0.0022	mg/L	0.00005	2.24%
Pb 220.353	322.1	0.0144	mg/L	0.00004	0.0144	mg/L	0.00004	0.25%
Sb 206.836	3.4	0.0010	mg/L	0.00087	0.0010	mg/L	0.00087	86.30%
Se 196.026	9.2	0.0036	mg/L	0.00090	0.0036	mg/L	0.00090	25.44%
Tl 190.801	-3.1	0.0000	mg/L	0.00092	0.0000	mg/L	0.00092	>999.9%
V 292.402	10815.1	0.0248	mg/L	0.00028	0.0248	mg/L	0.00028	1.14%

Zn 206.200	14573.4	0.1295 mg/L	0.00092	0.1295 mg/L	0.00092	0.71%
Na 330.237	13689.5	5.5387 mg/L	0.04828	5.5387 mg/L	0.04828	0.87%
Cd 226.502	134.2	0.0003 mg/L	0.00001	0.0003 mg/L	0.00001	2.62%
Tl 334.940	59761.0	0.0414 mg/L	0.00116	0.0414 mg/L	0.00116	2.79%
Ca 227.546	3684.2	4.7395 mg/L	0.02018	4.7395 mg/L	0.02018	0.43%

Sequence No.: 53 Autosampler Location: 73
Sample ID: B0096-05A,5277 Date Collected: 1/24/2003 9:04:59 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: B0096-05A,5277

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	19.3	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	43.10%
Al 308.215	19960.1	0.3448	mg/L	0.00057	0.3448	mg/L	0.00057	0.17%
As 188.979	4.2	0.0018	mg/L	0.00113	0.0018	mg/L	0.00113	62.17%
Ba 233.527	3839.1	0.0378	mg/L	0.00001	0.0378	mg/L	0.00001	0.02%
Be 313.107	614.7	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	9.06%
Co 228.616	28.2	0.0008	mg/L	0.00008	0.0008	mg/L	0.00008	10.19%
Cr 267.716	217.1	0.0005	mg/L	0.00007	0.0005	mg/L	0.00007	12.55%
Cu 324.752	1317.8	0.0023	mg/L	0.00014	0.0023	mg/L	0.00014	6.07%
Fe 273.955	20439.1	0.3438	mg/L	0.00117	0.3438	mg/L	0.00117	0.34%
Mg 279.077	6813.8	0.1325	mg/L	0.01622	0.1325	mg/L	0.01622	12.24%
Mn 257.610	5357.5	0.0106	mg/L	0.00010	0.0106	mg/L	0.00010	0.97%
Ni 231.604	53.7	0.0006	mg/L	0.00021	0.0006	mg/L	0.00021	32.63%
Pb 220.353	23.8	0.0011	mg/L	0.00015	0.0011	mg/L	0.00015	14.12%
Sb 206.836	2.2	0.0006	mg/L	0.00035	0.0006	mg/L	0.00035	59.81%
Se 196.026	4.1	0.0016	mg/L	0.00019	0.0016	mg/L	0.00019	12.41%
Tl 190.801	1.1	0.0004	mg/L	0.00115	0.0004	mg/L	0.00115	267.66%
V 292.402	604.1	0.0014	mg/L	0.00021	0.0014	mg/L	0.00021	15.33%
Zn 206.200	899.5	0.0080	mg/L	0.00010	0.0080	mg/L	0.00010	1.30%
Na 330.237	1874.9	0.7642	mg/L	0.11349	0.7642	mg/L	0.11349	14.85%
Cd 226.502	7.2	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	239.77%
Tl 334.940	12455.3	0.0086	mg/L	0.00020	0.0086	mg/L	0.00020	2.28%
Ca 227.546	457.5	0.5870	mg/L	0.00889	0.5870	mg/L	0.00889	1.51%

Sequence No.: 54 Autosampler Location: 74
Sample ID: B0096-06A,5277 Date Collected: 1/24/2003 9:08:57 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: B0096-06A,5277

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-6.2	0.0005	mg/L	0.00065	0.0005	mg/L	0.00065	126.73%
Al 308.215	196789.2	3.4094	mg/L	0.06139	3.4094	mg/L	0.06139	1.80%
As 188.979	6.9	0.0034	mg/L	0.00065	0.0034	mg/L	0.00065	19.15%
Ba 233.527	15255.9	0.1501	mg/L	0.00185	0.1501	mg/L	0.00185	1.23%
Be 313.107	282.6	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	3.35%
Co 228.616	98.6	0.0024	mg/L	0.00009	0.0024	mg/L	0.00009	3.87%
Cr 267.716	2051.1	0.0052	mg/L	0.00016	0.0052	mg/L	0.00016	3.00%
Cu 324.752	4964.9	0.0088	mg/L	0.00008	0.0088	mg/L	0.00008	0.92%
Fe 273.955	203721.2	3.4266	mg/L	0.04924	3.4266	mg/L	0.04924	1.44%
Mg 279.077	72074.8	1.4016	mg/L	0.03923	1.4016	mg/L	0.03923	2.80%
Mn 257.610	24130.9	0.0478	mg/L	0.00064	0.0478	mg/L	0.00064	1.33%
Ni 231.604	410.8	0.0049	mg/L	0.00010	0.0049	mg/L	0.00010	2.08%
Pb 220.353	176.5	0.0080	mg/L	0.00016	0.0080	mg/L	0.00016	2.02%
Sb 206.836	1.0	0.0006	mg/L	0.00044	0.0006	mg/L	0.00044	78.68%
Se 196.026	3.1	0.0019	mg/L	0.00164	0.0019	mg/L	0.00164	84.98%
Tl 190.801	-1.6	-0.0001	mg/L	0.00092	-0.0001	mg/L	0.00092	>999.9%
V 292.402	3521.3	0.0080	mg/L	0.00000	0.0080	mg/L	0.00000	0.06%
Zn 206.200	3310.1	0.0292	mg/L	0.00011	0.0292	mg/L	0.00011	0.38%
Na 330.237	3919.5	1.6360	mg/L	0.06468	1.6360	mg/L	0.06468	3.95%
Cd 226.502	112.3	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	9.46%

Tl 334.940	236156.4	0.1637 mg/L	0.00266	0.1637 mg/L	0.00266	1.63%
Ca 227.546	3766.9	4.8283 mg/L	0.01120	4.8283 mg/L	0.01120	0.23%

Sequence No.: 55 Autosampler Location: 5
Sample ID: ICSA Date Collected: 1/24/2003 9:12:55 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	-6880.9	-0.0057	mg/L	0.00105	-0.0057	mg/L	0.00105	18.46%
Al 308.215	26357492.5	463.57	mg/L	0.262	463.57	mg/L	0.262	0.06%
As 188.979	-26.1	0.0048	mg/L	0.01010	0.0048	mg/L	0.01010	212.64%
Ba 233.527	876.0	-0.0002	mg/L	0.00052	-0.0002	mg/L	0.00052	339.74%
Be 313.107	1760.1	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	4.42%
Co 228.616	-106.2	-0.0038	mg/L	0.00047	-0.0038	mg/L	0.00047	12.40%
Cr 267.716	-837.9	0.0000	mg/L	0.00013	0.0000	mg/L	0.00013	366.15%
Cu 324.752	-9896.7	0.0043	mg/L	0.00025	0.0043	mg/L	0.00025	5.95%
Fe 273.955	9775003.5	164.42	mg/L	0.164	164.42	mg/L	0.164	0.10%
Mg 279.077	23496789.9	456.85	mg/L	0.394	456.85	mg/L	0.394	0.09%
Mn 257.610	-10985.2	-0.0230	mg/L	0.00016	-0.0230	mg/L	0.00016	0.71%
Ni 231.604	137.4	0.0017	mg/L	0.00037	0.0017	mg/L	0.00037	21.98%
Pb 220.353	-746.9	0.0038	mg/L	0.00080	0.0038	mg/L	0.00080	21.31%
Sb 206.836	-9.1	0.0074	mg/L	0.00890	0.0074	mg/L	0.00890	120.12%
Se 196.026	-122.3	-0.0010	mg/L	0.00231	-0.0010	mg/L	0.00231	221.38%
Tl 190.801	-25.9	-0.0084	mg/L	0.00122	-0.0084	mg/L	0.00122	14.66%
V 292.402	-75.2	-0.0015	mg/L	0.00003	-0.0015	mg/L	0.00003	2.01%
Zn 206.200	1972.0	-0.0061	mg/L	0.00008	-0.0061	mg/L	0.00008	1.26%
Na 330.237	1106.3	0.2055	mg/L	0.09799	0.2055	mg/L	0.09799	47.67%
Cd 226.502	4283.6	0.0039	mg/L	0.00004	0.0039	mg/L	0.00004	1.13%
Tl 334.940	9212.1	0.0099	mg/L	0.00002	0.0099	mg/L	0.00002	0.24%
Ca 227.546	384135.4	494.08	mg/L	6.079	494.08	mg/L	6.079	1.23%

Sequence No.: 56 Autosampler Location: 6
Sample ID: ICSAB Date Collected: 1/24/2003 9:15:34 PM
Analyst:
Sample Wt: Sample Prep Volume:
Dilution: Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	44754.1	0.1915	mg/L	0.00024	0.1915	mg/L	0.00024	0.12%
Al 308.215	28574095.4	495.04	mg/L	2.725	495.04	mg/L	2.725	0.55%
As 188.979	186.5	0.1006	mg/L	0.00240	0.1006	mg/L	0.00240	2.38%
Ba 233.527	52038.1	0.5043	mg/L	0.00024	0.5043	mg/L	0.00024	0.05%
Be 313.107	5220148.3	0.5093	mg/L	0.00209	0.5093	mg/L	0.00209	0.41%
Co 228.616	16054.8	0.4354	mg/L	0.00104	0.4354	mg/L	0.00104	0.24%
Cr 267.716	197203.7	0.4972	mg/L	0.00058	0.4972	mg/L	0.00058	0.12%
Cu 324.752	367865.1	0.5502	mg/L	0.00054	0.5502	mg/L	0.00054	0.10%
Fe 273.955	10355682.7	174.18	mg/L	0.698	174.18	mg/L	0.698	0.40%
Mg 279.077	24969877.2	485.10	mg/L	2.048	485.10	mg/L	2.048	0.42%
Mn 257.610	252890.0	0.4988	mg/L	0.00076	0.4988	mg/L	0.00076	0.15%
Ni 231.604	82393.2	0.4965	mg/L	0.00132	0.4965	mg/L	0.00132	0.13%
Pb 220.353	9814.8	0.4636	mg/L	0.00836	0.4636	mg/L	0.00830	1.79%
Sb 206.836	2388.1	0.6180	mg/L	0.00635	0.6180	mg/L	0.00635	1.03%
Se 196.026	1384.1	0.5516	mg/L	0.00988	0.5516	mg/L	0.00988	1.79%
Tl 190.801	276.9	0.0943	mg/L	0.01103	0.0943	mg/L	0.01103	11.69%
V 292.402	217903.5	0.5000	mg/L	0.00022	0.5000	mg/L	0.00022	0.04%
Zn 206.200	197343.4	0.9368	mg/L	0.00206	0.9368	mg/L	0.00206	0.22%
Na 330.237	127704.8	51.638	mg/L	0.1094	51.638	mg/L	0.1094	0.21%
Cd 226.502	338549.1	0.9579	mg/L	0.00082	0.9579	mg/L	0.00082	0.09%
Tl 334.940	9019.2	0.0099	mg/L	0.00007	0.0099	mg/L	0.00007	0.71%
Ca 227.546	4103333.4	527.75	mg/L	1.217	527.75	mg/L	1.217	0.23%

Sequence No.: 57
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 1/24/2003 9:18:18 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	295383.2	1.1263	mg/L	0.00972	1.1263	mg/L	0.00972	0.86%
Al 308.215	542418.0	9.3974	mg/L	0.10257	9.3974	mg/L	0.10257	1.09%
As 188.979	1123.0	0.4860	mg/L	0.00081	0.4860	mg/L	0.00081	0.17%
Ba 233.527	1010917.6	9.9589	mg/L	0.08217	9.9589	mg/L	0.08217	0.83%
Be 313.107	2478460.0	0.2418	mg/L	0.00079	0.2418	mg/L	0.00079	0.33%
Co 228.616	85317.6	2.3187	mg/L	0.01801	2.3187	mg/L	0.01801	0.78%
Cr 267.716	388652.0	0.5741	mg/L	0.00853	0.5741	mg/L	0.00853	0.88%
Cu 324.752	713117.3	1.2212	mg/L	0.01029	1.2212	mg/L	0.01029	0.84%
Fe 273.955	290394.6	4.8844	mg/L	0.04755	4.8844	mg/L	0.04755	0.97%
Mg 279.077	1264683.7	24.602	mg/L	0.1696	24.602	mg/L	0.1696	0.69%
Mn 257.610	1277430.7	2.5258	mg/L	0.01995	2.5258	mg/L	0.01995	0.79%
Ni 231.604	215514.3	2.6063	mg/L	0.02027	2.6063	mg/L	0.02027	0.78%
Pb 220.353	11199.0	0.4859	mg/L	0.00064	0.4859	mg/L	0.00064	0.13%
Sb 206.836	1776.2	0.4552	mg/L	0.00628	0.4552	mg/L	0.00628	1.38%
Se 196.026	1385.5	0.5050	mg/L	0.00296	0.5050	mg/L	0.00296	0.59%
Tl 190.801	1496.3	0.5079	mg/L	0.00105	0.5079	mg/L	0.00105	0.21%
V 292.402	1038235.1	2.3866	mg/L	0.02189	2.3866	mg/L	0.02189	0.92%
Zn 206.200	281212.3	2.5040	mg/L	0.00938	2.5040	mg/L	0.00938	0.37%
Na 330.237	58624.0	23.786	mg/L	0.1321	23.786	mg/L	0.1321	0.56%
Cd 226.502	102120.8	0.2475	mg/L	0.00177	0.2475	mg/L	0.00177	0.72%
Ti 334.940	2032.4	0.0014	mg/L	0.00004	0.0014	mg/L	0.00004	3.14%
Ca 227.546	18723.6	23.968	mg/L	0.0730	23.968	mg/L	0.0730	0.30%

Sequence No.: 58
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 1/24/2003 9:22:29 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Ag 328.068	30.5	0.0001	mg/L	0.00019	0.0001	mg/L	0.00019	158.92%
Al 308.215	-681.8	-0.0118	mg/L	0.00210	-0.0118	mg/L	0.00210	17.77%
As 188.979	3.3	0.0014	mg/L	0.00062	0.0014	mg/L	0.00062	43.58%
Ba 233.527	166.6	0.0016	mg/L	0.00017	0.0016	mg/L	0.00017	10.23%
Be 313.107	707.1	0.0002	mg/L	0.00002	0.0002	mg/L	0.00002	31.91%
Co 228.616	14.1	0.0004	mg/L	0.00003	0.0004	mg/L	0.00003	7.79%
Cr 267.716	-27.0	-0.0001	mg/L	0.00015	-0.0001	mg/L	0.00015	214.33%
Cu 324.752	2058.2	0.0035	mg/L	0.00065	0.0035	mg/L	0.00065	18.45%
Fe 273.955	470.2	0.0079	mg/L	0.00105	0.0079	mg/L	0.00105	13.27%
Mg 279.077	-999.0	-0.0194	mg/L	0.00501	-0.0194	mg/L	0.00501	25.77%
Mn 257.610	148.5	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	4.26%
Ni 231.604	17.9	0.0002	mg/L	0.00018	0.0002	mg/L	0.00018	82.60%
Pb 220.353	6.7	0.0003	mg/L	0.00072	0.0003	mg/L	0.00072	246.97%
Sb 206.836	13.4	0.0034	mg/L	0.00040	0.0034	mg/L	0.00040	11.68%
Se 196.026	4.5	0.0017	mg/L	0.00016	0.0017	mg/L	0.00016	9.73%
Tl 190.801	1.9	0.0006	mg/L	0.00038	0.0006	mg/L	0.00038	59.51%
V 292.402	156.6	0.0004	mg/L	0.00013	0.0004	mg/L	0.00013	35.18%
Zn 206.200	604.7	0.0054	mg/L	0.00108	0.0054	mg/L	0.00108	20.11%
Na 330.237	145.9	0.0594	mg/L	0.04286	0.0594	mg/L	0.04286	72.16%
Cd 226.502	16.6	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	16.11%
Ti 334.940	147.3	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	24.47%
Ca 227.546	-30.1	-0.0389	mg/L	0.00341	-0.0389	mg/L	0.00341	8.77%

000 88

Analysis Begun

Start Time: 2/7/2003 3:39:24 PM
Logged In Analyst: optima2
Spectrometer Model: Optima 3100 XL

Plasma On Time: 2/7/2003 2:45:05 PM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: D:\pe\optima2\Sample Information\Evan.sif
Results Data Set: A020702
Results Library: D:\pe\optima2\Results\Results.mdb

Method Loaded
Method Name: 6010B
XEC File: A020508X.iwc
Method Description: Working method for all analytes

Method Last Saved: 2/7/2003 3:39:11 PM
MSF File:

Sequence No.: 1
Sample ID: S0
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 2/7/2003 3:39:24 PM

Sample Prep Volume:
Data Type: Original

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Al 308.215	10084.8	5.41	0.05%	[0.00]	mg/L
As 188.979	-3.3	0.30	9.04%	[0.00]	mg/L
Ba 233.527	-627.1	2.53	0.40%	[0.00]	mg/L
Be 313.107	-13250.6	21.77	0.16%	[0.00]	mg/L
Co 228.616	-258.7	1.60	0.62%	[0.00]	mg/L
Cr 267.716	-436.1	15.69	3.60%	[0.00]	mg/L
Cu 324.752	2644.0	139.07	5.26%	[0.00]	mg/L
Fe 273.955	-862.2	182.56	22.76%	[0.00]	mg/L
Mg 279.077	-4668.2	140.85	3.02%	[0.00]	mg/L
Mn 257.610	-385.2	3.06	0.79%	[0.00]	mg/L
Ni 231.604	-114.6	4.22	3.68%	[0.00]	mg/L
Pb 220.353	132.7	0.73	0.55%	[0.00]	mg/L
Sb 206.836	-10.8	0.89	8.26%	[0.00]	mg/L
Se 196.026	29.6	3.27	11.05%	[0.00]	mg/L
Tl 190.801	-1.2	2.28	188.31%	[0.00]	mg/L
V 292.402	390.6	24.24	6.21%	[0.00]	mg/L
Zn 206.200	-263.4	13.62	5.17%	[0.00]	mg/L
Na 330.237	1461.4	322.38	22.06%	[0.00]	mg/L
Cd 226.502	-610.8	4.70	0.77%	[0.00]	mg/L
Ti 334.940	1162.7	5.52	0.47%	[0.00]	mg/L
Ca 227.546	142.0	4.54	3.20%	[0.00]	mg/L

Sequence No.: 2
Sample ID: S1
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 2/7/2003 3:43:23 PM

Sample Prep Volume:
Data Type: Original

Mean Data: S1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Al 308.215	1031822.9	9139.46	0.79%	[20]	mg/L
As 188.979	2079.0	2.56	0.12%	[1]	mg/L
Ba 233.527	1703276.4	10668.55	0.63%	[20]	mg/L
Be 313.107	4139912.3	59615.15	1.44%	[0.5]	mg/L
Co 228.616	192613.7	1320.34	0.69%	[5]	mg/L
Cr 267.716	651403.1	4758.24	0.73%	[2]	mg/L
Cu 324.752	1205829.2	5761.80	0.48%	[2.5]	mg/L
Fe 273.955	466829.5	3082.39	0.66%	[10]	mg/L
Mg 279.077	2028895.2	13523.85	0.67%	[50]	mg/L

000 89

Mn 257.610	1900785.5	12152.69	0.64%	[5]	mg/L
Ni 231.604	354534.0	2299.26	0.65%	[5]	mg/L
Pb 220.353	20074.8	157.71	0.79%	[1]	mg/L
Sb 206.836	3918.2	21.94	0.56%	[1]	mg/L
Se 196.026	1961.0	2.68	0.14%	[1]	mg/L
Tl 190.801	2324.8	0.34	0.01%	[1]	mg/L
V 292.402	1807475.0	13662.26	0.76%	[5]	mg/L
Zn 206.200	433480.0	2016.61	0.47%	[5]	mg/L
Na 330.237	112374.4	461.88	0.41%	[50]	mg/L
Cd 226.502	149874.0	891.74	0.59%	[0.5]	mg/L
Ti 334.940	1222884.6	8631.95	0.71%	[1]	mg/L
Ca 227.546	32722.5	8.59	0.03%	[50]	mg/L

Sequence No.: 3
Sample ID: S2
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 2/7/2003 3:47:34 PM

Sample Prep Volume:
Data Type: Original

Mean Data: S2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Al 308.215	512654.9	3029.58	0.59%	[10]	mg/L
As 188.979	1051.9	3.96	0.38%	[0.5]	mg/L
Ba 233.527	908031.6	5182.45	0.57%	[10]	mg/L
Be 313.107	2109201.7	12661.93	0.60%	[0.25]	mg/L
Co 228.616	99041.0	376.31	0.38%	[2.5]	mg/L
Cr 267.716	330746.2	1630.74	0.49%	[1]	mg/L
Cu 324.752	619225.7	3330.77	0.54%	[1.25]	mg/L
Fe 273.955	239107.9	1787.15	0.75%	[5]	mg/L
Mg 279.077	1051050.1	5810.51	0.55%	[25]	mg/L
Mn 257.610	1002835.0	7030.83	0.70%	[2.5]	mg/L
Ni 231.604	183347.5	1218.94	0.66%	[2.5]	mg/L
Pb 220.353	10304.6	5.57	0.05%	[0.5]	mg/L
Sb 206.836	1998.2	4.96	0.25%	[0.5]	mg/L
Se 196.026	1009.7	2.05	0.20%	[0.5]	mg/L
Tl 190.801	1198.7	1.08	0.09%	[0.5]	mg/L
V 292.402	934087.5	6192.38	0.66%	[2.5]	mg/L
Zn 206.200	223727.1	1169.04	0.52%	[2.5]	mg/L
Na 330.237	53693.0	565.49	1.05%	[25]	mg/L
Cd 226.502	76963.6	404.50	0.53%	[0.25]	mg/L
Ti 334.940	638019.4	5320.03	0.83%	[0.5]	mg/L
Ca 227.546	16275.6	7.97	0.05%	[25]	mg/L

Sequence No.: 4
Sample ID: S3
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 2/7/2003 3:51:41 PM

Sample Prep Volume:
Data Type: Original

Mean Data: S3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Al 308.215	9914.0	42.63	0.43%	[0.2]	mg/L
As 188.979	24.8	0.00	0.02%	[0.01]	mg/L
Ba 233.527	19690.2	123.24	0.63%	[0.2]	mg/L
Be 313.107	42821.7	33.26	0.08%	[0.005]	mg/L
Co 228.616	2130.6	1.42	0.07%	[0.05]	mg/L
Cr 267.716	6959.7	60.15	0.86%	[0.02]	mg/L
Cu 324.752	13463.5	260.86	1.94%	[0.025]	mg/L
Fe 273.955	4709.3	10.87	0.23%	[0.1]	mg/L
Mg 279.077	21984.4	53.49	0.24%	[0.5]	mg/L
Mn 257.610	21662.6	42.32	0.20%	[0.05]	mg/L
Ni 231.604	4006.1	13.85	0.35%	[0.05]	mg/L
Pb 220.353	227.8	6.34	2.78%	[0.01]	mg/L
Sb 206.836	48.7	4.32	8.88%	[0.01]	mg/L
Se 196.026	10.7	2.03	18.83%	[0.01]	mg/L

000 90

Tl 190.801	22.4	0.86	3.82%	[0.01]	mg/L
V 292.402	19039.6	88.46	0.46%	[0.05]	mg/L
Zn 206.200	4988.5	15.59	0.31%	[0.05]	mg/L
Na 330.237	635.4	150.68	23.71%	[0.5]	mg/L
Cd 226.502	1626.1	2.50	0.15%	[0.005]	mg/L
Ti 334.940	13183.7	39.91	0.30%	[0.01]	mg/L
Ca 227.546	303.7	8.76	2.88%	[0.5]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Al 308.215	3	Lin Thru 0	0.0	51530	0.00000	0.999997	
As 188.979	3	Lin Thru 0	0.0	2084	0.00000	0.999987	
Ba 233.527	3	Lin Thru 0	0.0	86290	0.00000	0.999658	
Be 313.107	3	Lin Thru 0	0.0	8311000	0.00000	0.999971	
Co 228.616	3	Lin Thru 0	0.0	38740	0.00000	0.999936	
Cr 267.716	3	Lin Thru 0	0.0	326700	0.00000	0.999981	
Cu 324.752	3	Lin Thru 0	0.0	484900	0.00000	0.999942	
Fe 273.955	3	Lin Thru 0	0.0	46910	0.00000	0.999953	
Mg 279.077	3	Lin Thru 0	0.0	40870	0.00000	0.999897	
Mn 257.610	3	Lin Thru 0	0.0	384400	0.00000	0.999761	
Ni 231.604	3	Lin Thru 0	0.0	71390	0.00000	0.999907	
Pb 220.353	3	Lin Thru 0	0.0	20180	0.00000	0.999943	
Sb 206.836	3	Lin Thru 0	0.0	3934	0.00000	0.999966	
Se 196.026	3	Lin Thru 0	0.0	1973	0.00000	0.999930	
Tl 190.801	3	Lin Thru 0	0.0	2339	0.00000	0.999923	
V 292.402	3	Lin Thru 0	0.0	363900	0.00000	0.999911	
Zn 206.200	3	Lin Thru 0	0.0	87260	0.00000	0.999917	
Na 330.237	3	Lin Thru 0	0.0	2227	0.00000	0.999832	
Cd 226.502	3	Lin Thru 0	0.0	301400	0.00000	0.999942	
Ti 334.940	3	Lin Thru 0	0.0	1234000	0.00000	0.999851	
Ca 227.546	3	Lin Thru 0	0.0	653.8	0.00000	0.999938	

Sequence No.: 5
Sample ID: CHECK
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 2/7/2003 3:55:40 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CHECK

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	1025566.2	19.904	mg/L	0.3820	19.904	mg/L	0.3820	1.92%
As 188.979	2070.0	1.0130	mg/L	0.00256	1.0130	mg/L	0.00256	0.25%
Ba 233.527	1700146.4	19.713	mg/L	0.2756	19.713	mg/L	0.2756	1.40%
Be 313.107	4084150.1	0.4924	mg/L	0.00742	0.4924	mg/L	0.00742	1.51%
Co 228.616	191545.1	4.9419	mg/L	0.09246	4.9419	mg/L	0.09246	1.87%
Cr 267.716	648384.6	1.9848	mg/L	0.03230	1.9848	mg/L	0.03230	1.63%
Cu 324.752	1204920.3	2.4777	mg/L	0.05241	2.4777	mg/L	0.05241	2.12%
Fe 273.955	465211.5	9.9170	mg/L	0.14681	9.9170	mg/L	0.14681	1.48%
Mg 279.077	2018166.1	49.404	mg/L	0.7120	49.404	mg/L	0.7120	1.44%
Mn 257.610	1900038.3	4.9446	mg/L	0.05609	4.9446	mg/L	0.05609	1.13%
Ni 231.604	353885.8	4.9564	mg/L	0.06840	4.9564	mg/L	0.06840	1.38%
Pb 220.353	20055.3	0.9967	mg/L	0.01550	0.9967	mg/L	0.01550	1.56%
Sb 206.836	3915.6	1.0034	mg/L	0.00410	1.0034	mg/L	0.00410	0.41%
Se 196.026	1949.9	0.9858	mg/L	0.00206	0.9858	mg/L	0.00206	0.21%
Tl 190.801	2315.9	1.0004	mg/L	0.00560	1.0004	mg/L	0.00560	0.56%
V 292.402	1800242.3	4.9505	mg/L	0.08257	4.9505	mg/L	0.08257	1.67%
Zn 206.200	431448.1	4.9438	mg/L	0.07510	4.9438	mg/L	0.07510	1.52%
Na 330.237	111936.4	50.422	mg/L	1.1304	50.422	mg/L	1.1304	2.24%
Cd 226.502	149055.2	0.4953	mg/L	0.00776	0.4953	mg/L	0.00776	1.57%
Ti 334.940	1220786.4	0.9897	mg/L	0.01617	0.9897	mg/L	0.01617	1.63%
Ca 227.546	32561.2	49.457	mg/L	0.1823	49.457	mg/L	0.1823	0.37%

Sequence No.: 6
Sample ID: LRA
Analyst:

Autosampler Location: 14
Date Collected: 2/7/2003 3:59:51 PM

000 91

Sample Wt:
Dilution:
Sample Prep Volume:
Data Type: Original

Mean Data: LRA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	-263.5	-0.0051	mg/L	0.00069	-0.0051	mg/L	0.00069	13.50%
As 188.979	-53.9	0.0006	mg/L	0.00094	0.0006	mg/L	0.00094	150.19%
Ba 233.527	1066.2	-0.0005	mg/L	0.00023	-0.0005	mg/L	0.00023	44.77%
Be 313.107	1078.0	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	13.89%
Co 228.616	302.1	0.0039	mg/L	0.00011	0.0039	mg/L	0.00011	2.75%
Cr 267.716	-283.5	0.0028	mg/L	0.00002	0.0028	mg/L	0.00002	0.89%
Cu 324.752	-12370.4	0.0150	mg/L	0.00099	0.0150	mg/L	0.00099	6.59%
Fe 273.955	13532981.3	288.48	mg/L	1.221	288.48	mg/L	1.221	0.42%
Mg 279.077	-9.9	-0.0003	mg/L	0.00044	-0.0003	mg/L	0.00044	131.04%
Mn 257.610	-7126.1	-0.0139	mg/L	0.00051	-0.0139	mg/L	0.00051	3.65%
Ni 231.604	466.6	0.0239	mg/L	0.00003	0.0239	mg/L	0.00003	0.13%
Pb 220.353	162.3	0.0139	mg/L	0.00010	0.0139	mg/L	0.00010	0.73%
Sb 206.836	-23.6	0.0077	mg/L	0.00130	0.0077	mg/L	0.00130	16.80%
Se 196.026	-204.0	-0.0256	mg/L	0.00180	-0.0256	mg/L	0.00180	7.05%
Tl 190.801	-19.5	0.0002	mg/L	0.00103	0.0002	mg/L	0.00103	633.78%
V 292.402	461.4	-0.0011	mg/L	0.00008	-0.0011	mg/L	0.00008	6.72%
Zn 206.200	190.6	-0.0001	mg/L	0.00022	-0.0001	mg/L	0.00022	288.78%
Na 330.237	-1139.4	-0.0140	mg/L	0.02045	-0.0140	mg/L	0.02045	146.54%
Cd 226.502	4363.9	0.0032	mg/L	0.00008	0.0032	mg/L	0.00008	2.43%
Ti 334.940	325.5	0.0003	mg/L	0.00008	0.0003	mg/L	0.00008	28.00%
Ca 227.546	2100.3	0.7120	mg/L	0.05825	0.7120	mg/L	0.05825	8.18%

Sequence No.: 7
Sample ID: ICV
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 2/7/2003 4:04:03 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	492769.2	9.5634	mg/L	0.16391	9.5634	mg/L	0.16391	1.71%
As 188.979	1056.3	0.5164	mg/L	0.00287	0.5164	mg/L	0.00287	0.56%
Ba 233.527	907753.4	10.525	mg/L	0.0881	10.525	mg/L	0.0881	0.84%
Be 313.107	2034097.5	0.2447	mg/L	0.00219	0.2447	mg/L	0.00219	0.90%
Co 228.616	96802.1	2.4982	mg/L	0.03894	2.4982	mg/L	0.03894	1.56%
Cr 267.716	319923.6	0.9793	mg/L	0.01515	0.9793	mg/L	0.01515	1.55%
Cu 324.752	605936.2	1.2463	mg/L	0.01061	1.2463	mg/L	0.01061	0.85%
Fe 273.955	233359.7	4.9746	mg/L	0.07860	4.9746	mg/L	0.07860	1.58%
Mg 279.077	1021852.8	25.015	mg/L	0.2391	25.015	mg/L	0.2391	0.96%
Mn 257.610	979724.8	2.5496	mg/L	0.01413	2.5496	mg/L	0.01413	0.55%
Ni 231.604	179627.6	2.5160	mg/L	0.02799	2.5160	mg/L	0.02799	1.11%
Pb 220.353	10178.0	0.5055	mg/L	0.00266	0.5055	mg/L	0.00266	0.53%
Sb 206.836	1837.1	0.4706	mg/L	0.00482	0.4706	mg/L	0.00482	1.02%
Se 196.026	990.9	0.5010	mg/L	0.00343	0.5010	mg/L	0.00343	0.68%
Tl 190.801	1185.5	0.5115	mg/L	0.00230	0.5115	mg/L	0.00230	0.45%
V 292.402	903553.8	2.4850	mg/L	0.02350	2.4850	mg/L	0.02350	0.95%
Zn 206.200	218510.0	2.5043	mg/L	0.02738	2.5043	mg/L	0.02738	1.09%
Na 330.237	52595.1	23.569	mg/L	0.4280	23.569	mg/L	0.4280	1.82%
Cd 226.502	75108.0	0.2496	mg/L	0.00327	0.2496	mg/L	0.00327	1.31%
Ti 334.940	1758.8	0.0014	mg/L	0.00003	0.0014	mg/L	0.00003	2.40%
Ca 227.546	15911.4	24.163	mg/L	0.1981	24.163	mg/L	0.1981	0.82%

Sequence No.: 8
Sample ID: ICB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 4
Date Collected: 2/7/2003 4:08:12 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	6.4	0.0001	mg/L	0.00183	0.0001	mg/L	0.00183	>999.9%
As 188.979	-0.6	-0.0003	mg/L	0.00017	-0.0003	mg/L	0.00017	64.95%
Ba 233.527	128.9	0.0015	mg/L	0.00010	0.0015	mg/L	0.00010	6.58%
Be 313.107	502.0	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	57.26%
Co 228.616	-3.1	-0.0001	mg/L	0.00004	-0.0001	mg/L	0.00004	45.53%
Cr 267.716	-24.7	-0.0001	mg/L	0.00021	-0.0001	mg/L	0.00021	293.20%
Cu 324.752	686.9	0.0014	mg/L	0.00025	0.0014	mg/L	0.00025	17.91%
Fe 273.955	-285.5	-0.0061	mg/L	0.00079	-0.0061	mg/L	0.00079	13.06%
Mg 279.077	26.2	0.0006	mg/L	0.00232	0.0006	mg/L	0.00232	361.54%
Mn 257.610	54.1	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	19.73%
Ni 231.604	-10.6	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	11.44%
Pb 220.353	2.1	0.0001	mg/L	0.00009	0.0001	mg/L	0.00009	89.10%
Sb 206.836	12.5	0.0032	mg/L	0.00247	0.0032	mg/L	0.00247	77.52%
Se 196.026	3.0	0.0015	mg/L	0.00020	0.0015	mg/L	0.00020	13.33%
Tl 190.801	-1.8	-0.0008	mg/L	0.00024	-0.0008	mg/L	0.00024	31.45%
V 292.402	34.1	0.0001	mg/L	0.00009	0.0001	mg/L	0.00009	93.24%
Zn 206.200	81.1	0.0009	mg/L	0.00028	0.0009	mg/L	0.00028	29.70%
Na 330.237	-159.6	-0.0717	mg/L	0.06536	-0.0717	mg/L	0.06536	91.21%
Cd 226.502	2.9	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	62.73%
Ti 334.940	-13.1	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	221.34%
Ca 227.546	-11.6	-0.0178	mg/L	0.00736	-0.0178	mg/L	0.00736	41.43%

Sequence No.: 9
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 5
Date Collected: 2/7/2003 4:12:14 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	24896385.5	483.18	mg/L	2.850	483.18	mg/L	2.850	0.59%
As 188.979	10.6	0.0201	mg/L	0.00750	0.0201	mg/L	0.00750	37.34%
Ba 233.527	466.9	-0.0038	mg/L	0.00009	-0.0038	mg/L	0.00009	2.46%
Be 313.107	-615.1	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	15.30%
Co 228.616	25.1	-0.0003	mg/L	0.00047	-0.0003	mg/L	0.00047	156.95%
Cr 267.716	-605.5	0.0003	mg/L	0.00006	0.0003	mg/L	0.00006	19.58%
Cu 324.752	-7425.5	0.0072	mg/L	0.00028	0.0072	mg/L	0.00028	3.88%
Fe 273.955	8150027.2	173.73	mg/L	0.775	173.73	mg/L	0.775	0.45%
Mg 279.077	19372228.7	473.98	mg/L	1.908	473.98	mg/L	1.908	0.40%
Mn 257.610	-1691.2	0.0103	mg/L	0.00025	0.0103	mg/L	0.00025	2.44%
Ni 231.604	17.9	0.0102	mg/L	0.00019	0.0102	mg/L	0.00019	1.90%
Pb 220.353	-491.0	0.0090	mg/L	0.00056	0.0090	mg/L	0.00056	6.26%
Sb 206.836	-75.6	-0.0090	mg/L	0.00278	-0.0090	mg/L	0.00278	30.86%
Se 196.026	-95.7	0.0010	mg/L	0.00091	0.0010	mg/L	0.00091	89.01%
Tl 190.801	2.4	0.0158	mg/L	0.00679	0.0158	mg/L	0.00679	42.92%
V 292.402	-38.2	-0.0016	mg/L	0.00001	-0.0016	mg/L	0.00001	0.37%
Zn 206.200	1726.2	-0.0047	mg/L	0.00071	-0.0047	mg/L	0.00071	15.08%
Na 330.237	690.1	0.0695	mg/L	0.02575	0.0695	mg/L	0.02575	37.05%
Cd 226.502	2793.3	0.0025	mg/L	0.00003	0.0025	mg/L	0.00003	1.26%
Ti 334.940	8086.6	0.0101	mg/L	0.00008	0.0101	mg/L	0.00008	0.78%
Ca 227.546	331329.4	505.52	mg/L	4.737	505.52	mg/L	4.737	0.94%

Sequence No.: 10
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 6
Date Collected: 2/7/2003 4:14:53 PM
Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	25257025.5	490.18	mg/L	4.222	490.18	mg/L	4.222	0.86%
As 188.979	198.6	0.1149	mg/L	0.00728	0.1149	mg/L	0.00728	6.34%
Ba 233.527	43024.3	0.4903	mg/L	0.01219	0.4903	mg/L	0.01219	2.49%

Be 313.107	3833210.0	0.4612	mg/L	0.00356	0.4612	mg/L	0.00356	0.77%
Co 228.616	16213.0	0.4174	mg/L	0.00888	0.4174	mg/L	0.00888	2.13%
Cr 267.716	148075.4	0.4554	mg/L	0.00993	0.4554	mg/L	0.00993	2.18%
Cu 324.752	237282.7	0.5114	mg/L	0.01107	0.5114	mg/L	0.01107	2.17%
Fe 273.955	8296321.2	176.85	mg/L	1.182	176.85	mg/L	1.182	0.67%
Mg 279.077	19684225.2	481.62	mg/L	3.164	481.62	mg/L	3.164	0.66%
Mn 257.610	181837.9	0.4881	mg/L	0.00706	0.4881	mg/L	0.00706	1.45%
Ni 231.604	62427.0	0.8844	mg/L	0.01462	0.8844	mg/L	0.01462	1.65%
Pb 220.353	8475.4	0.4540	mg/L	0.00781	0.4540	mg/L	0.00781	1.72%
Sb 206.836	2095.4	0.5435	mg/L	0.00596	0.5435	mg/L	0.00596	1.10%
Se 196.026	810.2	0.4606	mg/L	0.00741	0.4606	mg/L	0.00741	1.61%
Tl 190.801	203.7	0.1028	mg/L	0.00600	0.1028	mg/L	0.00600	5.83%
V 292.402	171275.2	0.4701	mg/L	0.00989	0.4701	mg/L	0.00989	2.10%
Zn 206.200	76395.0	0.8513	mg/L	0.01601	0.8513	mg/L	0.01601	1.88%
Na 330.237	59107.9	26.279	mg/L	0.6905	26.279	mg/L	0.6905	2.63%
Cd 226.502	266570.5	0.8778	mg/L	0.01759	0.8778	mg/L	0.01759	2.00%
Ti 334.940	9139.4	0.0110	mg/L	0.00019	0.0110	mg/L	0.00019	1.70%
Ca 227.546	341121.1	520.44	mg/L	14.091	520.44	mg/L	14.091	2.71%

Sequence No.: 11
Sample ID: MB-5520,5520
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 17
Date Collected: 2/7/2003 4:17:37 PM
Sample Prep Volume:
Data Type: Original

Mean Data: MB-5520,5520

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	1246.0	0.0242	mg/L	0.00202	0.0242	mg/L	0.00202	8.34%
As 188.979	1.4	0.0007	mg/L	0.00112	0.0007	mg/L	0.00112	170.54%
Ba 233.527	673.9	0.0078	mg/L	0.00076	0.0078	mg/L	0.00076	9.72%
Be 313.107	835.0	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	0.07%
Co 228.616	-3.1	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	11.08%
Cr 267.716	30.3	0.0001	mg/L	0.00011	0.0001	mg/L	0.00011	121.83%
Cu 324.752	2870.3	0.0059	mg/L	0.00128	0.0059	mg/L	0.00128	21.54%
Fe 273.955	617.6	0.0132	mg/L	0.00415	0.0132	mg/L	0.00415	31.52%
Mg 279.077	1039.6	0.0254	mg/L	0.00617	0.0254	mg/L	0.00617	24.26%
Mn 257.610	241.9	0.0006	mg/L	0.00003	0.0006	mg/L	0.00003	4.58%
Ni 231.604	-16.1	-0.0002	mg/L	0.00011	-0.0002	mg/L	0.00011	59.13%
Pb 220.353	-1.1	-0.0001	mg/L	0.00006	-0.0001	mg/L	0.00066	>999.9%
Sb 206.836	6.2	0.0016	mg/L	0.00027	0.0016	mg/L	0.00027	17.05%
Se 196.026	1.1	0.0006	mg/L	0.00027	0.0006	mg/L	0.00027	46.78%
Tl 190.801	-0.7	-0.0003	mg/L	0.00055	-0.0003	mg/L	0.00055	183.98%
V 292.402	44.8	0.0001	mg/L	0.00009	0.0001	mg/L	0.00009	69.89%
Zn 206.200	295.4	0.0034	mg/L	0.00087	0.0034	mg/L	0.00087	25.57%
Na 330.237	38.4	0.0172	mg/L	0.12787	0.0172	mg/L	0.12787	741.67%
Cd 226.502	15.6	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	9.52%
Ti 334.940	90.6	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	65.97%
Ca 227.546	11.4	0.0172	mg/L	0.01576	0.0172	mg/L	0.01576	91.74%

Sequence No.: 12
Sample ID: LCS-5520,5520
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 18
Date Collected: 2/7/2003 4:21:39 PM
Sample Prep Volume:
Data Type: Original

Mean Data: LCS-5520,5520

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	455618.8	8.8425	mg/L	0.09531	8.8425	mg/L	0.09531	1.08%
As 188.979	1012.5	0.4946	mg/L	0.00254	0.4946	mg/L	0.00254	0.51%
Ba 233.527	804142.0	9.3238	mg/L	0.03389	9.3238	mg/L	0.03389	0.36%
Be 313.107	1856399.2	0.2234	mg/L	0.00096	0.2234	mg/L	0.00096	0.43%
Co 228.616	86811.2	2.2404	mg/L	0.01815	2.2404	mg/L	0.01815	0.81%
Cr 267.716	293005.1	0.8969	mg/L	0.00578	0.8969	mg/L	0.00578	0.64%
Cu 324.752	547671.9	1.1264	mg/L	0.00668	1.1264	mg/L	0.00668	0.59%
Fe 273.955	214157.9	4.5652	mg/L	0.04198	4.5652	mg/L	0.04198	0.92%

Mg 279.077	916497.6	22.436	mg/L	0.0770	22.436	mg/L	0.0770	0.34%
Mn 257.610	906920.9	2.3601	mg/L	0.00464	2.3601	mg/L	0.00464	0.20%
Ni 231.604	166251.4	2.3296	mg/L	0.02871	2.3286	mg/L	0.02871	1.23%
Pb 220.353	9709.5	0.4822	mg/L	0.00277	0.4822	mg/L	0.00277	0.57%
Sb 206.836	1715.6	0.4394	mg/L	0.00309	0.4394	mg/L	0.00309	0.70%
Se 196.026	916.8	0.4635	mg/L	0.00393	0.4635	mg/L	0.00393	0.85%
Tl 190.801	1111.0	0.4794	mg/L	0.00352	0.4794	mg/L	0.00352	0.73%
V 292.402	818058.1	2.2499	mg/L	0.00606	2.2499	mg/L	0.00606	0.27%
Zn 206.200	197875.7	2.2678	mg/L	0.01475	2.2678	mg/L	0.01475	0.65%
Na 330.237	47430.9	21.258	mg/L	0.2413	21.258	mg/L	0.2413	1.14%
Cd 226.502	71288.8	0.2369	mg/L	0.00124	0.2369	mg/L	0.00124	0.52%
Ti 334.940	1038.9	0.0008	mg/L	0.00003	0.0008	mg/L	0.00003	3.00%
Ca 227.546	14167.7	21.970	mg/L	0.1186	21.970	mg/L	0.1186	0.54%

Sequence No.: 13
Sample ID: B0217-01B,5520
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 19
Date Collected: 2/7/2003 4:25:50 PM
Sample Prep Volume:
Data Type: Original

Mean Data: B0217-01B,5520

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	462871.7	8.9833	mg/L	0.01940	8.9833	mg/L	0.01940	0.22%
As 188.979	3.7	0.0019	mg/L	0.00037	0.0019	mg/L	0.00037	18.78%
Ba 233.527	3662.6	0.0423	mg/L	0.00077	0.0423	mg/L	0.00077	1.83%
Be 313.107	1279.5	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	0.43%
Co 228.616	59.0	0.0015	mg/L	0.00002	0.0015	mg/L	0.00002	1.26%
Cr 267.716	2520.2	0.0076	mg/L	0.00003	0.0076	mg/L	0.00003	0.44%
Cu 324.752	7195.7	0.0143	mg/L	0.00114	0.0143	mg/L	0.00114	7.97%
Fe 273.955	78192.5	1.6668	mg/L	0.00678	1.6668	mg/L	0.00678	0.41%
Mg 279.077	147806.4	3.5216	mg/L	0.00590	3.6216	mg/L	0.00590	0.16%
Mn 257.610	201428.9	0.5242	mg/L	0.00106	0.5242	mg/L	0.00106	0.20%
Ni 231.604	328.1	0.0046	mg/L	0.00009	0.0046	mg/L	0.00009	1.93%
Pb 220.353	262.4	0.0130	mg/L	0.00026	0.0135	mg/L	0.00026	1.92%
Sb 206.836	10.2	0.0027	mg/L	0.00070	0.0027	mg/L	0.00070	25.91%
Se 196.026	0.6	0.0003	mg/L	0.00055	0.0003	mg/L	0.00055	162.24%
Tl 190.801	-11.8	-0.0026	mg/L	0.00153	-0.0026	mg/L	0.00153	58.34%
V 292.402	1666.5	0.0046	mg/L	0.00007	0.0046	mg/L	0.00007	1.60%
Zn 206.200	6032.6	0.0688	mg/L	0.00053	0.0688	mg/L	0.00053	0.77%
Na 330.237	50291.3	22.568	mg/L	0.0253	22.568	mg/L	0.0253	0.11%
Cd 226.502	511.2	0.0016	mg/L	0.00002	0.0016	mg/L	0.00002	1.34%
Ti 334.940	37594.9	0.0305	mg/L	0.00021	0.0305	mg/L	0.00021	0.70%
Ca 227.546	10916.5	16.687	mg/L	0.1373	16.697	mg/L	0.1373	0.82%

Sequence No.: 14
Sample ID: B0217-02B,5520
Analyst:
Sample Wt:
Dilution:
Autosampler Location: 20
Date Collected: 2/7/2003 4:29:54 PM
Sample Prep Volume:
Data Type: Original

Mean Data: B0217-02B,5520

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	655.5	0.0127	mg/L	0.00261	0.0127	mg/L	0.00261	20.53%
As 188.979	5.2	0.0023	mg/L	0.00068	0.0023	mg/L	0.00068	29.10%
Ba 233.527	5305.4	0.0612	mg/L	0.00036	0.0612	mg/L	0.00036	0.59%
Be 313.107	580.3	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	18.64%
Co 228.616	193.5	0.0050	mg/L	0.00014	0.0050	mg/L	0.00014	2.84%
Cr 267.716	99.2	-0.0002	mg/L	0.00001	-0.0002	mg/L	0.00001	5.12%
Cu 324.752	2065.2	0.0010	mg/L	0.00047	0.0010	mg/L	0.00047	49.77%
Fe 273.955	5081.8	0.1083	mg/L	0.00086	0.1083	mg/L	0.00086	0.79%
Mg 279.077	174756.6	4.2892	mg/L	0.01388	4.2892	mg/L	0.01388	0.32%
Mn 257.610	1003786.0	2.6117	mg/L	0.03277	2.6117	mg/L	0.03277	1.25%
Ni 231.604	2476.6	0.0345	mg/L	0.00000	0.0345	mg/L	0.00000	0.01%
Pb 220.353	1.5	-0.0003	mg/L	0.00005	-0.0003	mg/L	0.00005	18.33%
Sb 206.836	-1.3	-0.0006	mg/L	0.00002	-0.0006	mg/L	0.00002	3.47%

Se 196.026	4.2	0.0000 mg/L	0.00055	-0.0000 mg/L	0.00055	>999.9%	
Tl 190.801	-48.4	-0.0096 mg/L	0.00053	-0.0096 mg/L	0.00053	5.56%	
V 292.402	32.1	0.0003 mg/L	0.00009	0.0003 mg/L	0.00009	33.50%	
Zn 206.200	686.3	0.0071 mg/L	0.00021	0.0071 mg/L	0.00021	3.02%	
Na 330.237	49040.3	21.978 mg/L	0.2490	21.978 mg/L	0.2490	1.13%	
Cd 226.502	-0.2	0.0000 mg/L	0.00000	0.0000 mg/L	0.00000	92.04%	
Ti 334.940	909.8	0.0009 mg/L	0.00005	0.0009 mg/L	0.00005	5.27%	
Ca 227.546	15480.2	23.677 mg/L	0.0634	23.677 mg/L	0.0634	0.27%	

Sequence No.: 15
Sample ID: B0217-03B,5520S
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 21
Date Collected: 2/7/2003 4:34:03 PM
Sample Prep Volume:
Data Type: Original

Mean Data: B0217-03B,5520S

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	52637	0.1022	mg/L	0.00244	0.1022	mg/L	0.00244	2.39%
As 188.979	5.1	0.0023	mg/L	0.00022	0.0023	mg/L	0.00022	9.48%
Ba 233.527	693.0	0.0101	mg/L	0.00033	0.0101	mg/L	0.00033	3.25%
Be 313.107	726.2	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	18.96%
Co 228.616	75.5	0.0019	mg/L	0.00006	0.0019	mg/L	0.00006	3.25%
Cr 267.716	105.8	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	9.71%
Cu 324.752	1418.1	0.0003	mg/L	0.00046	0.0003	mg/L	0.00046	166.46%
Fe 273.955	3648.8	0.0777	mg/L	0.00145	0.0777	mg/L	0.00145	1.87%
Mg 279.077	185406.2	4.5470	mg/L	0.04683	4.5470	mg/L	0.04683	1.03%
Mn 257.610	797506.7	2.0750	mg/L	0.01661	2.0750	mg/L	0.01661	0.80%
Ni 231.604	1181.7	0.0164	mg/L	0.00013	0.0164	mg/L	0.00013	0.80%
Pb 220.353	-5.2	-0.0005	mg/L	0.00018	-0.0005	mg/L	0.00018	33.80%
Sb 206.836	2.9	0.0005	mg/L	0.00026	0.0005	mg/L	0.00026	48.55%
Se 196.026	6.0	0.0014	mg/L	0.00043	0.0014	mg/L	0.00043	31.11%
Tl 190.801	-34.8	-0.0060	mg/L	0.00188	-0.0060	mg/L	0.00188	31.15%
V 292.402	81.2	0.0004	mg/L	0.00002	0.0004	mg/L	0.00002	6.31%
Zn 206.200	376.5	0.0036	mg/L	0.00016	0.0036	mg/L	0.00016	4.43%
Na 330.237	48314.9	21.652	mg/L	0.2626	21.652	mg/L	0.2626	1.21%
Cd 226.502	1.3	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	308.63%
Ti 334.940	3754.5	0.0032	mg/L	0.00016	0.0032	mg/L	0.00016	4.85%
Ca 227.546	17238.6	26.367	mg/L	0.1807	26.367	mg/L	0.1807	0.69%

Sequence No.: 16
Sample ID: B0217-03BDUP,5522O
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 22
Date Collected: 2/7/2003 4:38:08 PM
Sample Prep Volume:
Data Type: Original

Mean Data: B0217-03BDUP,5522O

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	5256.9	0.1020	mg/L	0.00052	0.1020	mg/L	0.00052	0.50%
As 188.979	5.4	0.0025	mg/L	0.00052	0.0025	mg/L	0.00052	21.05%
Ba 233.527	810.7	0.0092	mg/L	0.00059	0.0092	mg/L	0.00059	6.44%
Be 313.107	625.7	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	12.42%
Co 228.616	82.9	0.0021	mg/L	0.00004	0.0021	mg/L	0.00004	2.09%
Cr 267.716	56.9	-0.0002	mg/L	0.00016	-0.0002	mg/L	0.00016	53.48%
Cu 324.752	911.5	-0.0008	mg/L	0.00031	-0.0008	mg/L	0.00031	37.78%
Fe 273.955	3526.6	0.0752	mg/L	0.00035	0.0752	mg/L	0.00035	0.47%
Mg 279.077	188883.1	4.6324	mg/L	0.07064	4.6324	mg/L	0.07064	1.52%
Mn 257.610	816480.8	2.1244	mg/L	0.03167	2.1244	mg/L	0.03167	1.49%
Ni 231.604	1269.1	0.0168	mg/L	0.00008	0.0168	mg/L	0.00008	0.48%
Pb 220.353	-9.5	-0.0008	mg/L	0.00006	-0.0008	mg/L	0.00006	7.63%
Sb 206.836	6.3	0.0014	mg/L	0.00024	0.0014	mg/L	0.00024	17.62%
Se 196.026	2.9	-0.0002	mg/L	0.00076	-0.0002	mg/L	0.00076	315.28%
Tl 190.801	-38.3	-0.0073	mg/L	0.00117	-0.0073	mg/L	0.00117	15.97%
V 292.402	42.5	0.0003	mg/L	0.00027	0.0003	mg/L	0.00027	102.99%
Zn 206.200	473.9	0.0047	mg/L	0.00018	0.0047	mg/L	0.00018	3.72%
Na 330.237	49368.2	22.124	mg/L	0.2253	22.124	mg/L	0.2253	1.02%

Cd 226.502	2.7	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	220.03%	
Ti 334.940	3091.8	0.0027 mg/L	0.00002	0.0027 mg/L	0.00002	0.70%	
Ca 227.546	17575.7	26.883 mg/L	0.2749	26.883 mg/L	0.2749	1.02%	

Sequence No.: 17
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 2/7/2003 4:42:14 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	501614.5	9.7352	mg/L	0.20860	9.7352	mg/L	0.20860	2.14%
As 188.979	1062.6	0.5194	mg/L	0.00161	0.5194	mg/L	0.00161	0.31%
Ba 233.527	913022.4	10.586	mg/L	0.0269	10.586	mg/L	0.0269	0.25%
Be 313.107	2028711.7	0.2441	mg/L	0.00071	0.2441	mg/L	0.00071	0.29%
Co 228.616	95287.3	2.4591	mg/L	0.03914	2.4591	mg/L	0.03914	1.59%
Cr 267.716	320338.5	0.9806	mg/L	0.01744	0.9806	mg/L	0.01744	1.78%
Cu 324.752	602811.0	1.2398	mg/L	0.00240	1.2398	mg/L	0.00240	0.19%
Fe 273.955	2350010.6	5.0097	mg/L	0.09371	5.0097	mg/L	0.09371	1.87%
Mg 279.077	1022624.1	25.034	mg/L	0.0485	25.034	mg/L	0.0485	0.19%
Mn 257.610	1002754.9	2.6095	mg/L	0.00794	2.6095	mg/L	0.00794	0.30%
Ni 231.604	184847.6	2.5891	mg/L	0.05057	2.5891	mg/L	0.05057	1.95%
Pb 220.353	10151.1	0.5042	mg/L	0.00072	0.5042	mg/L	0.00072	0.14%
Sb 206.836	1861.2	0.4768	mg/L	0.00668	0.4768	mg/L	0.00668	1.40%
Se 196.026	972.6	0.4917	mg/L	0.00321	0.4917	mg/L	0.00321	0.65%
Tl 190.801	1169.3	0.5048	mg/L	0.00048	0.5048	mg/L	0.00048	0.09%
V 292.402	905598.0	2.4906	mg/L	0.00918	2.4906	mg/L	0.00918	0.37%
Zn 206.200	216852.4	2.4853	mg/L	0.04126	2.4853	mg/L	0.04126	1.66%
Na 330.237	53276.7	23.875	mg/L	0.5017	23.875	mg/L	0.5017	2.10%
Cd 226.502	75000.1	0.2493	mg/L	0.00422	0.2493	mg/L	0.00422	1.69%
Ti 334.940	1710.8	0.0014	mg/L	0.00002	0.0014	mg/L	0.00002	1.73%
Ca 227.546	15862.7	24.087	mg/L	0.0828	24.087	mg/L	0.0828	0.34%

Sequence No.: 18
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/7/2003 4:46:23 PM
Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	-0.3	0.0000	mg/L	0.00079	0.0000	mg/L	0.00079	>999.9%
As 188.979	1.0	0.0005	mg/L	0.00061	0.0005	mg/L	0.00061	125.71%
Ba 233.527	22.2	0.0003	mg/L	0.00015	0.0003	mg/L	0.00015	58.30%
Be 313.107	684.1	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	8.92%
Co 228.616	2.1	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	97.26%
Cr 267.716	-1.2	0.0000	mg/L	0.00008	0.0000	mg/L	0.00008	>999.9%
Cu 324.752	-326.8	-0.0007	mg/L	0.00013	-0.0007	mg/L	0.00013	19.00%
Fe 273.955	-429.8	-0.0092	mg/L	0.00017	-0.0092	mg/L	0.00017	1.81%
Mg 279.077	17.6	0.0004	mg/L	0.00334	0.0004	mg/L	0.00334	771.30%
Mn 257.610	61.2	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	30.55%
Ni 231.604	3.1	0.0000	mg/L	0.00007	0.0000	mg/L	0.00007	172.68%
Pb 220.353	-1.8	-0.0001	mg/L	0.00013	-0.0001	mg/L	0.00013	146.20%
Sb 206.836	12.1	0.0031	mg/L	0.00164	0.0031	mg/L	0.00164	53.36%
Se 196.026	-1.9	-0.0010	mg/L	0.00334	-0.0010	mg/L	0.00334	341.02%
Tl 190.801	1.0	0.0004	mg/L	0.00146	0.0004	mg/L	0.00146	339.16%
V 292.402	36.3	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	9.67%
Zn 206.200	5.0	0.0001	mg/L	0.00014	0.0001	mg/L	0.00014	241.66%
Na 330.237	54.6	0.0245	mg/L	0.09249	0.0245	mg/L	0.09249	376.83%
Cd 226.502	7.7	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	74.15%
Ti 334.940	73.4	0.0001	mg/L	0.00009	0.0001	mg/L	0.00009	152.19%
Ca 227.546	-14.4	-0.0220	mg/L	0.03717	-0.0220	mg/L	0.03717	168.87%

Sequence No.: 19				Autosampler Location: 23			
Sample ID: B0217-03BMS,5520				Date Collected: 2/7/2003 4:50:25 PM			
Analyst:							
Sample Wt:				Sample Prep Volume:			
Dilution:				Data Type: Original			

Mean Data: B0217-03BMS,5520

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	462594.0	8.9779	mg/L	0.06603	8.9779	mg/L	0.06603	0.74%
As 188.979	1009.6	0.4929	mg/L	0.00112	0.4929	mg/L	0.00112	0.23%
Ba 233.527	794361.7	9.2102	mg/L	0.05188	9.2102	mg/L	0.05188	0.56%
Be 313.107	1839227.9	0.2213	mg/L	0.00118	0.2213	mg/L	0.00118	0.53%
Co 228.616	84161.1	2.1720	mg/L	0.00209	2.1720	mg/L	0.00209	0.10%
Cr 267.716	288369.0	0.8823	mg/L	0.00466	0.8823	mg/L	0.00466	0.53%
Cu 324.752	543665.9	1.1156	mg/L	0.00436	1.1156	mg/L	0.00436	0.39%
Fe 273.955	2148930.9	4.5796	mg/L	0.01859	4.5796	mg/L	0.01859	0.41%
Mg 279.077	1084925.7	26.567	mg/L	0.1476	26.567	mg/L	0.1476	0.56%
Mn 257.610	1670338.7	4.3464	mg/L	0.03354	4.3464	mg/L	0.03354	0.77%
Ni 231.604	164891.0	2.3094	mg/L	0.01093	2.3094	mg/L	0.01093	0.47%
Pb 220.353	9430.3	0.4681	mg/L	0.00040	0.4681	mg/L	0.00040	0.08%
Sb 206.836	1689.6	0.4329	mg/L	0.00021	0.4329	mg/L	0.00021	0.05%
Se 196.026	894.8	0.4508	mg/L	0.00019	0.4508	mg/L	0.00019	0.04%
Tl 190.801	1043.7	0.4591	mg/L	0.00041	0.4591	mg/L	0.00041	0.09%
V 292.402	815684.7	2.2434	mg/L	0.01527	2.2434	mg/L	0.01527	0.68%
Zn 206.200	191762.1	2.1971	mg/L	0.00731	2.1971	mg/L	0.00731	0.33%
Na 330.237	101298.0	45.399	mg/L	0.3216	45.399	mg/L	0.3216	0.71%
Cd 226.502	69575.1	0.2312	mg/L	0.00083	0.2312	mg/L	0.00083	0.36%
Ti 334.940	3927.2	0.0034	mg/L	0.00019	0.0034	mg/L	0.00019	5.55%
Ca 227.546	31021.9	48.515	mg/L	0.0073	48.515	mg/L	0.0073	0.02%

Sequence No.: 20
Sample ID: B0217-03BSD,5520
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 24
Date Collected: 2/7/2003 4:54:38 PM
Sample Prep Volume:
Data Type: Original

Mean Data: B0217-03BSD,5520

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	997.4	0.0194	mg/L	0.00318	0.0194	mg/L	0.00318	16.45%
As 188.979	0.5	0.0002	mg/L	0.00016	0.0002	mg/L	0.00016	71.96%
Ba 233.527	167.8	0.0019	mg/L	0.00002	0.0019	mg/L	0.00002	0.88%
Be 313.107	606.2	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	16.63%
Co 228.616	22.8	0.0006	mg/L	0.00025	0.0006	mg/L	0.00025	42.27%
Cr 267.716	-14.9	-0.0001	mg/L	0.00020	-0.0001	mg/L	0.00020	156.77%
Cu 324.752	246.7	0.0000	mg/L	0.00016	0.0000	mg/L	0.00016	324.49%
Fe 273.955	358.5	0.0076	mg/L	0.00021	0.0076	mg/L	0.00021	2.80%
Mg 279.077	38536.1	0.9451	mg/L	0.00251	0.9451	mg/L	0.00251	0.27%
Mn 257.610	167583.2	0.4360	mg/L	0.00097	0.4360	mg/L	0.00097	0.22%
Ni 231.604	251.0	0.0035	mg/L	0.00011	0.0035	mg/L	0.00011	3.14%
Pb 220.353	-0.1	-0.0001	mg/L	0.00025	-0.0001	mg/L	0.00025	381.08%
Sb 206.836	2.0	0.0005	mg/L	0.00041	0.0005	mg/L	0.00041	88.05%
Se 196.026	2.7	0.0010	mg/L	0.00013	0.0010	mg/L	0.00013	13.19%
Tl 190.801	-9.0	-0.0020	mg/L	0.00103	-0.0020	mg/L	0.00103	52.04%
V 292.402	16.5	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	64.62%
Zn 206.200	163.0	0.0017	mg/L	0.00021	0.0017	mg/L	0.00021	12.24%
Na 330.237	9015.9	4.0401	mg/L	0.03495	4.0401	mg/L	0.03495	0.86%
Cd 226.502	18.1	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	3.77%
Ti 334.940	1104.2	0.0009	mg/L	0.00039	0.0009	mg/L	0.00039	41.91%
Ca 227.546	3371.6	5.1571	mg/L	0.01074	5.1571	mg/L	0.01074	0.21%

Sequence No.: 21
Sample ID: B0217-03BPDS,5520
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 25
Date Collected: 2/7/2003 4:58:37 PM
Sample Prep Volume:
Data Type: Original

Mean Data: B0217-03BPDS,5520

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	445122.2	8.6388	mg/L	0.00039	8.6388	mg/L	0.00039	0.00%
As 188.979	950.9	0.4644	mg/L	0.00030	0.4644	mg/L	0.00030	0.06%
Ba 233.527	770618.1	8.9349	mg/L	0.13170	8.9349	mg/L	0.13170	1.47%
Be 313.107	1789316.7	0.2153	mg/L	0.00341	0.2153	mg/L	0.00341	1.59%
Co 228.616	82512.5	2.1294	mg/L	0.00861	2.1294	mg/L	0.00861	0.40%
Cr 267.716	278478.3	0.8521	mg/L	0.00196	0.8521	mg/L	0.00196	0.23%
Cu 324.752	536388.4	1.1008	mg/L	0.02115	1.1008	mg/L	0.02115	1.92%
Fe 273.955	2072261.4	4.4175	mg/L	0.00172	4.4175	mg/L	0.00172	0.04%
Mg 279.077	1057695.3	25.901	mg/L	0.3835	25.901	mg/L	0.3835	1.48%
Mn 257.610	1623908.8	4.2256	mg/L	0.06193	4.2256	mg/L	0.06193	1.47%
Ni 231.604	160497.9	2.2478	mg/L	0.00059	2.2478	mg/L	0.00059	0.03%
Pb 220.353	9802.4	0.4365	mg/L	0.00036	0.4365	mg/L	0.00036	0.08%
Sb 206.836	1658.4	0.4246	mg/L	0.00077	0.4246	mg/L	0.00077	0.18%
Se 196.026	847.4	0.4268	mg/L	0.00130	0.4268	mg/L	0.00130	0.30%
Tl 190.801	1006.5	0.4429	mg/L	0.00094	0.4429	mg/L	0.00094	0.21%
V 292.402	791207.7	2.1761	mg/L	0.03579	2.1761	mg/L	0.03579	1.64%
Zn 206.200	185574.1	2.1262	mg/L	0.01014	2.1262	mg/L	0.01014	0.48%
Na 330.237	97960.9	43.904	mg/L	0.2690	43.904	mg/L	0.2690	0.61%
Cd 226.502	65765.3	0.2186	mg/L	0.00061	0.2186	mg/L	0.00061	0.28%
Ti 334.940	4521.2	0.0039	mg/L	0.00061	0.0039	mg/L	0.00061	15.78%
Ca 227.546	30677.3	46.769	mg/L	0.0252	46.769	mg/L	0.0252	0.05%

Sequence No.: 22
Sample ID: MB-5463,5520
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 26
Date Collected: 2/7/2003 5:02:43 PM
Sample Prep Volume:
Data Type: Original

Mean Data: MB-5463,5520

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	258.8	0.0050	mg/L	0.00180	0.0050	mg/L	0.00180	35.82%
As 188.979	2.9	0.0014	mg/L	0.00110	0.0014	mg/L	0.00110	80.16%
Ba 233.527	1010.7	0.0117	mg/L	0.00052	0.0117	mg/L	0.00052	4.46%
Be 313.107	604.6	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	9.25%
Co 228.616	4.6	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	31.73%
Cr 267.716	15.1	0.0000	mg/L	0.00014	0.0000	mg/L	0.00014	309.16%
Cu 324.752	850.4	0.0017	mg/L	0.00059	0.0017	mg/L	0.00059	33.93%
Fe 273.955	-245.2	-0.0052	mg/L	0.00037	0.0052	mg/L	0.00037	7.16%
Mg 279.077	558.3	0.0137	mg/L	0.00376	0.0137	mg/L	0.00376	27.46%
Mn 257.610	2148.6	0.0056	mg/L	0.00026	0.0056	mg/L	0.00026	4.66%
Ni 231.604	14.0	0.0002	mg/L	0.00002	0.0002	mg/L	0.00002	8.20%
Pb 220.353	-0.3	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	261.17%
Sb 206.836	3.4	0.0009	mg/L	0.00022	0.0009	mg/L	0.00022	25.72%
Se 196.026	-2.9	-0.0015	mg/L	0.00341	-0.0015	mg/L	0.00341	227.28%
Tl 190.801	-1.3	-0.0005	mg/L	0.00006	-0.0005	mg/L	0.00006	11.56%
V 292.402	71.1	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	3.30%
Zn 206.200	1326.3	0.0152	mg/L	0.00067	0.0152	mg/L	0.00067	4.44%
Na 330.237	246.3	0.1104	mg/L	0.02441	0.1104	mg/L	0.02441	22.10%
Cd 226.502	6.0	0.0000	mg/L	0.00004	0.0000	mg/L	0.00004	182.27%
Ti 334.940	124.1	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	10.11%
Ca 227.546	60.1	0.0919	mg/L	0.00746	0.0919	mg/L	0.00746	8.11%

Sequence No.: 23
Sample ID: B0096-07A,5520
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 27
Date Collected: 2/7/2003 5:06:42 PM
Sample Prep Volume:
Data Type: Original

Mean Data: B0096-07A,5520

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Al 308.215	435022.1	8.4428	mg/L	0.14020	8.4428	mg/L	0.14020	1.66%
As 188.979	16.2	0.0079	mg/L	0.00001	0.0079	mg/L	0.00001	0.08%
Ba 233.527	16614.2	0.1926	mg/L	0.00360	0.1926	mg/L	0.00360	1.87%
Be 313.107	8226.1	0.0011	mg/L	0.00003	0.0011	mg/L	0.00003	2.28%
Co 228.616	43.7	0.0010	mg/L	0.00004	0.0010	mg/L	0.00004	3.74%
Cr 267.716	1247.2	0.0038	mg/L	0.00008	0.0038	mg/L	0.00008	2.04%
Cu 324.752	4964.5	0.0102	mg/L	0.00022	0.0102	mg/L	0.00022	2.15%
Fe 273.955	49621.4	1.0578	mg/L	0.01715	1.0578	mg/L	0.01715	1.62%
Mg 279.077	94568.3	2.3140	mg/L	0.03681	2.3140	mg/L	0.03681	1.59%
Mn 257.610	15060.6	0.0393	mg/L	0.00063	0.0393	mg/L	0.00063	1.59%
Ni 231.604	119.9	0.0017	mg/L	0.00003	0.0017	mg/L	0.00003	1.92%
Pb 220.353	142.7	0.0077	mg/L	0.00008	0.0077	mg/L	0.00008	1.05%
Sb 206.836	-1.6	-0.0002	mg/L	0.00079	-0.0002	mg/L	0.00079	521.80%
Se 196.026	2.1	0.0013	mg/L	0.00102	0.0013	mg/L	0.00102	76.81%
Tl 190.801	-4.9	-0.0017	mg/L	0.00067	-0.0017	mg/L	0.00067	38.78%
V 292.402	16669.5	0.0457	mg/L	0.00082	0.0457	mg/L	0.00082	1.80%
Zn 206.200	4377.5	0.0499	mg/L	0.00019	0.0499	mg/L	0.00019	0.37%
Na 330.237	63442.4	28.508	mg/L	0.3452	28.508	mg/L	0.3452	1.21%
Cd 226.502	41.6	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	7.76%
Ti 334.940	138211.5	0.1121	mg/L	0.00154	0.1121	mg/L	0.00154	1.38%
Ca 227.546	2948.5	4.5032	mg/L	0.00249	4.5032	mg/L	0.00249	0.06%

Sequence No.: 24
Sample ID: ICSA
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 2/7/2003 5:10:42 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	24801911.6	481.35	mg/L	1.990	481.35	mg/L	1.990	0.41%
As 188.979	-8.3	0.0108	mg/L	0.00513	0.0108	mg/L	0.00513	47.30%
Ba 233.527	265.7	-0.0061	mg/L	0.00051	-0.0061	mg/L	0.00051	8.43%
Be 313.107	-709.4	-0.0001	mg/L	0.00000	-0.0001	mg/L	0.00000	0.10%
Co 228.616	-22.9	-0.0015	mg/L	0.00009	-0.0015	mg/L	0.00009	6.01%
Cr 267.716	-527.6	0.0005	mg/L	0.00044	0.0005	mg/L	0.00044	81.24%
Cu 324.752	-8495.0	0.0048	mg/L	0.00016	0.0048	mg/L	0.00016	3.27%
Fe 273.955	8072258.3	172.08	mg/L	0.472	172.08	mg/L	0.472	0.27%
Mg 279.077	19146848.4	468.47	mg/L	1.512	468.47	mg/L	1.512	0.32%
Mn 257.610	-1678.6	0.0102	mg/L	0.00010	0.0102	mg/L	0.00010	0.97%
Ni 231.604	-12.3	0.0097	mg/L	0.00036	0.0097	mg/L	0.00036	3.72%
Pb 220.353	-506.0	0.0081	mg/L	0.00005	0.0081	mg/L	0.00005	0.60%
Sb 206.836	-28.2	0.0030	mg/L	0.00401	0.0030	mg/L	0.00401	134.50%
Se 196.026	-120.0	-0.0118	mg/L	0.01036	-0.0118	mg/L	0.01036	87.87%
Tl 190.801	6.9	0.0176	mg/L	0.00936	0.0176	mg/L	0.00936	53.12%
V 292.402	42.2	-0.0013	mg/L	0.00002	-0.0013	mg/L	0.00002	1.32%
Zn 206.200	1665.0	-0.0052	mg/L	0.00042	-0.0052	mg/L	0.00042	8.19%
Na 330.237	599.0	0.0240	mg/L	0.08077	0.0240	mg/L	0.08077	335.94%
Cd 226.502	2705.6	0.0023	mg/L	0.00012	0.0023	mg/L	0.00012	5.48%
Ti 334.940	8031.2	0.0101	mg/L	0.00004	0.0101	mg/L	0.00004	0.43%
Ca 227.546	332334.1	507.07	mg/L	2.647	507.07	mg/L	2.647	0.52%

Sequence No.: 25
Sample ID: ICSAB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/7/2003 5:13:21 PM

Sample Prep Volume:
Data Type: Original

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	25392954.5	492.82	mg/L	0.467	492.82	mg/L	0.467	0.09%
As 188.979	188.2	0.1099	mg/L	0.02049	0.1099	mg/L	0.02049	16.65%
Ba 233.527	42975.3	0.4897	mg/L	0.00107	0.4897	mg/L	0.00107	0.22%
Be 313.107	3813289.3	0.4588	mg/L	0.00043	0.4588	mg/L	0.00043	0.09%
Co 228.616	15916.4	0.4098	mg/L	0.00410	0.4098	mg/L	0.00410	1.00%

Cr 267.716	148033.3	0.4553	mg/L	0.00130	0.4553	mg/L	0.00130	0.28%
Cu 324.752	236384.4	0.5095	mg/L	0.00231	0.5095	mg/L	0.00231	0.45%
Fe 273.955	8272925.5	176.35	mg/L	0.036	176.35	mg/L	0.036	0.02%
Mg 279.077	19609496.1	479.79	mg/L	0.146	479.79	mg/L	0.146	0.03%
Mn 257.610	182890.1	0.4908	mg/L	0.00237	0.4908	mg/L	0.00237	0.48%
Ni 231.604	62794.5	0.8896	mg/L	0.00374	0.8896	mg/L	0.00374	0.42%
Pb 220.353	8332.0	0.4471	mg/L	0.00381	0.4471	mg/L	0.00381	0.85%
Sb 206.836	2080.3	0.5396	mg/L	0.00625	0.5396	mg/L	0.00625	1.16%
Se 196.026	788.9	0.4497	mg/L	0.02092	0.4497	mg/L	0.02092	4.65%
Tl 190.801	185.1	0.0948	mg/L	0.00578	0.0948	mg/L	0.00578	6.09%
V 292.402	171972.1	0.4721	mg/L	0.00089	0.4721	mg/L	0.00089	0.19%
Zn 206.200	75948.6	0.8462	mg/L	0.00189	0.8462	mg/L	0.00189	0.22%
Na 330.237	59526.2	26.459	mg/L	0.1824	26.459	mg/L	0.1824	0.69%
Cd 226.502	265938.3	0.8757	mg/L	0.00146	0.8757	mg/L	0.00146	0.17%
Ti 334.940	9121.4	0.0110	mg/L	0.00001	0.0110	mg/L	0.00001	0.10%
Ca 227.546	345585.8	527.27	mg/L	0.903	527.27	mg/L	0.903	0.17%

Sequence No.: 26
Sample ID: CCV
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 2/7/2003 5:16.05 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	499544.0	9.6950	mg/L	0.10755	9.6950	mg/L	0.10755	1.11%
As 188.979	1052.0	0.5143	mg/L	0.00086	0.5143	mg/L	0.00086	0.17%
Ba 233.527	911992.6	10.574	mg/L	0.0519	10.574	mg/L	0.0519	0.49%
Be 313.107	2027518.2	0.2440	mg/L	0.00097	0.2440	mg/L	0.00097	0.40%
Co 228.616	94881.9	2.4486	mg/L	0.01808	2.4486	mg/L	0.01808	0.74%
Cr 267.716	319035.6	0.9766	mg/L	0.01024	0.9766	mg/L	0.01024	1.05%
Cu 324.752	603053.8	1.2403	mg/L	0.00409	1.2403	mg/L	0.00409	0.33%
Fe 273.955	234250.3	4.9935	mg/L	0.04519	4.9935	mg/L	0.04519	0.91%
Mg 279.077	1023502.5	25.056	mg/L	0.1293	25.056	mg/L	0.1293	0.52%
Mn 257.610	998639.7	2.5988	mg/L	0.00771	2.5988	mg/L	0.00771	0.30%
Ni 231.604	183219.1	2.5663	mg/L	0.02042	2.5663	mg/L	0.02042	0.80%
Pb 220.353	10113.1	0.5023	mg/L	0.00125	0.5023	mg/L	0.00125	0.25%
Sb 206.836	1845.1	0.4727	mg/L	0.00842	0.4727	mg/L	0.00842	1.78%
Se 196.026	974.6	0.4927	mg/L	0.00045	0.4927	mg/L	0.00045	0.09%
Tl 190.801	1165.7	0.5032	mg/L	0.00261	0.5032	mg/L	0.00261	0.52%
V 292.402	905854.1	2.4913	mg/L	0.00997	2.4913	mg/L	0.00997	0.40%
Zn 206.200	216330.1	2.4793	mg/L	0.02056	2.4793	mg/L	0.02056	0.83%
Na 330.237	52983.1	23.743	mg/L	0.2689	23.743	mg/L	0.2689	1.13%
Cd 226.502	74865.4	0.2488	mg/L	0.00168	0.2488	mg/L	0.00168	0.67%
Ti 334.940	1681.8	0.0014	mg/L	0.00003	0.0014	mg/L	0.00003	2.24%
Ca 227.546	15783.8	23.966	mg/L	0.0428	23.966	mg/L	0.0428	0.18%

Sequence No.: 27
Sample ID: CCB
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/7/2003 5:20:14 PM

Sample Prep Volume:
Data Type: Original

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	-119.1	-0.0023	mg/L	0.00079	-0.0023	mg/L	0.00079	34.22%
As 188.979	3.0	0.0015	mg/L	0.00024	0.0015	mg/L	0.00024	16.16%
Ba 233.527	25.0	0.0003	mg/L	0.00013	0.0003	mg/L	0.00013	44.29%
Be 313.107	836.8	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	26.22%
Co 228.616	0.8	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	88.34%
Cr 267.716	-0.9	0.0000	mg/L	0.00023	0.0000	mg/L	0.00023	>999.9%
Cu 324.752	-141.8	-0.0003	mg/L	0.00019	-0.0003	mg/L	0.00019	64.59%
Fe 273.955	-362.7	-0.0077	mg/L	0.00047	-0.0077	mg/L	0.00047	6.10%
Mg 279.077	205.6	0.0050	mg/L	0.00083	0.0050	mg/L	0.00083	16.58%
Mn 257.610	72.1	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	18.29%

Ni 231.604	-1.1	0.0000	mg/L	0.00010	0.0000	mg/L	0.00010	603.88%
Pb 220.353	2.4	0.0001	mg/L	0.00010	0.0001	mg/L	0.00010	86.19%
Sb 206.836	14.6	0.0037	mg/L	0.00120	0.0037	mg/L	0.00120	32.39%
Se 196.026	1.8	0.0009	mg/L	0.00023	0.0009	mg/L	0.00023	25.47%
Tl 190.801	-2.1	-0.0009	mg/L	0.00067	-0.0009	mg/L	0.00067	74.15%
V 292.402	23.8	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	81.40%
Zn 206.200	14.6	0.0002	mg/L	0.00021	0.0002	mg/L	0.00021	127.14%
Na 330.237	-122.4	-0.0549	mg/L	0.02085	-0.0549	mg/L	0.02085	37.95%
Cd 226.502	15.2	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	47.95%
Ti 334.940	39.9	0.0000	mg/L	0.00006	0.0000	mg/L	0.00006	178.64%
Ca 227.546	-16.3	-0.0248	mg/L	0.01479	-0.0248	mg/L	0.01479	59.59%

Sequence No.: 28
Sample ID: MB-5521,5521
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 28
Date Collected: 2/7/2003 5:24:17 PM

Sample Prep Volume:
Data Type: Original

Mean Data: MB-5521,5521

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	36.2	0.0007	mg/L	0.00252	0.0007	mg/L	0.00252	358.59%
As 188.979	3.7	0.0018	mg/L	0.00048	0.0018	mg/L	0.00048	27.18%
Ba 233.527	-10.8	-0.0001	mg/L	0.00000	-0.0001	mg/L	0.00000	2.98%
Be 313.107	524.7	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	11.14%
Co 228.616	-1.0	0.0000	mg/L	0.00008	0.0000	mg/L	0.00008	316.93%
Cr 267.716	-11.9	0.0000	mg/L	0.00015	0.0000	mg/L	0.00015	414.54%
Cu 324.752	-388.6	-0.0008	mg/L	0.00000	-0.0008	mg/L	0.00000	0.06%
Fe 273.955	-430.7	-0.0092	mg/L	0.00149	-0.0092	mg/L	0.00149	16.26%
Mg 279.077	143.1	0.0035	mg/L	0.00338	0.0035	mg/L	0.00338	96.41%
Mn 257.610	28.4	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	4.83%
Ni 231.604	-21.1	-0.0003	mg/L	0.00006	-0.0003	mg/L	0.00006	18.71%
Pb 220.353	-5.8	-0.0003	mg/L	0.00006	-0.0003	mg/L	0.00006	21.08%
Sb 206.836	0.9	0.0002	mg/L	0.00022	0.0002	mg/L	0.00022	95.44%
Se 196.026	-6.6	-0.0034	mg/L	0.00148	-0.0034	mg/L	0.00148	43.84%
Tl 190.801	-3.0	-0.0013	mg/L	0.00085	-0.0013	mg/L	0.00085	66.04%
V 292.402	-34.5	-0.0001	mg/L	0.00011	-0.0001	mg/L	0.00011	112.12%
Zn 206.200	-36.3	-0.0004	mg/L	0.00001	-0.0004	mg/L	0.00001	2.94%
Na 330.237	-259.9	-0.1167	mg/L	0.02806	-0.1167	mg/L	0.02806	24.05%
Cd 226.502	13.4	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	54.25%
Ti 334.940	33.8	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	79.68%
Ca 227.546	-9.3	-0.0141	mg/L	0.00473	-0.0141	mg/L	0.00473	33.55%

2/13/03

Sequence No.: 29
Sample ID: LCS-5521,5521
Analyst:
Sample Wt:
Dilution:

Autosampler Location: 29
Date Collected: 2/7/2003 5:28:17 PM

Sample Prep Volume:
Data Type: Original

Mean Data: LCS-5521,5521

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Al 308.215	427077.5	8.2886	mg/L	0.06398	8.2886	mg/L	0.06398	0.77%
As 188.979	924.9	0.4522	mg/L	0.00235	0.4522	mg/L	0.00235	0.52%
Ba 233.527	771866.0	8.9495	mg/L	0.07313	8.9495	mg/L	0.07313	0.82%
Be 313.107	1752199.9	0.2108	mg/L	0.00149	0.2108	mg/L	0.00149	0.70%
Co 228.616	81748.9	2.1097	mg/L	0.01694	2.1097	mg/L	0.01694	0.80%
Cr 267.716	280351.9	0.8582	mg/L	0.00353	0.8582	mg/L	0.00353	0.41%
Cu 324.752	529555.4	1.0892	mg/L	0.00278	1.0892	mg/L	0.00278	0.26%
Fe 273.955	203993.5	4.3486	mg/L	0.01312	4.3486	mg/L	0.01312	0.30%
Mg 279.077	864638.0	21.167	mg/L	0.0715	21.167	mg/L	0.0715	0.34%
Mn 257.610	872711.3	2.2711	mg/L	0.02796	2.2711	mg/L	0.02796	1.23%
Ni 231.604	156301.0	2.1892	mg/L	0.00767	2.1892	mg/L	0.00767	0.35%
Pb 220.353	9058.4	0.4498	mg/L	0.00016	0.4498	mg/L	0.00016	0.04%
Sb 206.836	1638.8	0.4198	mg/L	0.00153	0.4198	mg/L	0.00153	0.37%
Se 196.026	795.3	0.4020	mg/L	0.00011	0.4020	mg/L	0.00011	0.03%
Tl 190.801	1036.0	0.4472	mg/L	0.00114	0.4472	mg/L	0.00114	0.25%

H02082A

Method Name: HG_COMM
Method Description: Hgcomm
Element: Hg

B0096-07
B0095-1,2,4,5,13,15
B0202-1-20-Battelle Sds

Good for Hg
EF 2/8/03

Date: 02/08/2003
Technique: FI-MHS
Calibration Type:
Hg, Zero Intercept: Linear
Wavelength: 253.7 nm
Sample Info Name: EVAN.SIF

Results Data Set Name: H020802

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 02/08/2003
Sample ID: S0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0009	0.0043	0.0009	11:55:58	Yes
2			0.0008	0.0041	0.0008	11:56:27	Yes
Mean:			0.0009				
SD :			0.0000				
%RSD:			0.9678				

Auto-zero performed.

Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 02/08/2003
Sample ID: S0.2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0034	0.0210	0.0043	11:57:18	Yes
2			0.0033	0.0189	0.0042	11:57:47	Yes
Mean:			0.0034				
SD :			0.0001				
%RSD:			2.1548				

[Hg] Standard number 1 applied. [0.20]
Correlation Coefficient: 1.00000 Slope: 0.01684

Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 02/08/2003
Sample ID: S1.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0187	0.0955	0.0195	11:58:38	Yes
2			0.0187	0.0948	0.0195	11:59:07	Yes
Mean:			0.0187				
SD :			0.0000				
%RSD:							

[Hg] Standard number 2 applied. [1.00]
Correlation Coefficient: 0.99942 Slope: 0.01861

Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 02/08/2003
Sample ID: S2.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0364	0.1819	0.0373	11:59:57	Yes
2			0.0367	0.1837	0.0376	12:00:27	Yes
Mean:			0.0366				
SD :			0.0002				
%RSD:			0.5512				

[Hg] Standard number 3 applied. [2.00]
Correlation Coefficient: 0.99980 Slope: 0.01835

Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 02/08/2003
Sample ID: S5.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0926	0.4518	0.0934	12:01:18	Yes
2			0.0929	0.4534	0.0938	12:01:46	Yes
Mean:			0.0927				
SD :			0.0002				
%RSD:			0.2553				

[Hg] Standard number 4 applied. [5.00]
Correlation Coefficient: 0.99996 Slope: 0.01851

Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 02/08/2003
Sample ID: S10.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.1790	0.8814	0.1799	12:02:38	Yes
2			0.1777	0.8776	0.1786	12:03:07	Yes
Mean:			0.1784				
SD :			0.0009				
%RSD:			0.5228				

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99974 Slope: 0.01800

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
S0	0.0009	--	----	----	----
S0.2	0.0034	0.20	0.19	0.000	2.2
S1.0	0.0187	1.00	1.04	0.000	----
S2.0	0.0366	2.00	2.03	0.000	0.6
S5.0	0.0927	5.00	5.15	0.000	0.3
S10.0	0.1784	10.00	9.91	0.001	0.5

Correlation Coefficient: 0.99974 Slope: 0.01800 ----

Element: Hg Seq. No.: 7 AS Loc.: 7 Date: 02/08/2003
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.78	4.78	0.0861	0.4236	0.0869	12:03:57	Yes
2	4.75	4.75	0.0856	0.4231	0.0864	12:04:26	Yes
Mean:	4.77	4.77	0.0858				
SD :	0.020	0.020	0.0004				
%RSD:	0.4	0.4	0.4233				

QC value within specified limits.

Element: Hg Seq. No.: 8 AS Loc.: 1 Date: 02/08/2003
Sample ID: ICB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0001	0.0043	0.0009	12:05:18	Yes
2	0.01	0.01	0.0001	0.0046	0.0010	12:05:47	Yes
Mean:	0.01	0.01	0.0001				
SD :	0.001	0.001	0.0000				
%RSD:	25.1	25.1	25.0608				

QC value within specified limits.

000194

Element: Hg Seq. No.: 9 AS Loc.: 9 Date: 02/08/2003
Sample ID: MB-5463

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01	0.01	0.0002	0.0050	0.0010	12:06:37	Yes
2	0.01	0.01	0.0003	0.0060	0.0011	12:07:06	Yes
Mean:	0.01	0.01	0.0002				
SD :	0.003	0.003	0.0001				
%RSD:	24.5	24.5	24.4881				

Element: Hg Seq. No.: 10 AS Loc.: 10 Date: 02/08/2003
Sample ID: LCS-5527 100%

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.53	4.53	0.0816	0.3997	0.0824	12:07:56	Yes
2	4.61	4.61	0.0831	0.3955	0.0839	12:08:25	Yes
Mean:	4.57	4.57	0.0823				
SD :	0.059	0.059	0.0011				
%RSD:	1.3	1.3	1.2914				

Element: Hg Seq. No.: 11 AS Loc.: 11 Date: 02/08/2003
Sample ID: B0096-07A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02	0.02	0.0003	0.0065	0.0012	12:09:16	Yes
2	0.02	0.02	0.0003	0.0058	0.0012	12:09:45	Yes
Mean:	0.02	0.02	0.0003				
SD :	0.000	0.000	0.0000				
%RSD:	1.5	1.5	1.4926				

Element: Hg Seq. No.: 12 AS Loc.: 12 Date: 02/08/2003
Sample ID: B0095-01A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.03	0.03	0.0005	0.0074	0.0013	12:10:35	Yes
2	0.03	0.03	0.0005	0.0072	0.0013	12:11:04	Yes
Mean:	0.03	0.03	0.0005				
SD :	0.000	0.000	0.0000				
%RSD:	0.9	0.9	0.9361				

Element: Hg Seq. No.: 13 AS Loc.: 13 Date: 02/08/2003
Sample ID: B095-01ADUP

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02	0.02	0.0004	0.0095	0.0012	12:11:54	Yes
2	0.01	0.01	0.0003	0.0080	0.0011	12:12:24	Yes
Mean:	0.02	0.02	0.0003				
SD :	0.005	0.005	0.0001				
%RSD:	26.5	26.5	26.5382				

Element: Hg Seq. No.: 14 AS Loc.: 14 Date: 02/08/2003
Sample ID: B0095-01AMS 95%

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.29	4.29	0.0773	0.3799	0.0781	12:13:14	Yes
2	4.31	4.31	0.0776	0.3796	0.0785	12:13:44	Yes
Mean:	4.30	4.30	0.0775				

000195

SD :	0.013	0.013	0.0002				
%RSD:	0.3	0.3	0.3102				

Element: Hg Seq. No.: 15 AS Loc.: 15 Date: 02/08/2003
Sample ID: B0095-02A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02	0.02	0.0004	0.0056	0.0013	12:14:34	Yes
2	0.03	0.03	0.0005	0.0066	0.0013	12:15:03	Yes
Mean:	0.03	0.03	0.0005				
SD :	0.002	0.002	0.0000				
%RSD:	7.7	7.7	7.7472				

Element: Hg Seq. No.: 16 AS Loc.: 16 Date: 02/08/2003
Sample ID: B0905-04A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02	0.02	0.0004	0.0059	0.0012	12:15:53	Yes
2	0.02	0.02	0.0003	0.0054	0.0011	12:16:22	Yes
Mean:	0.02	0.02	0.0003				
SD :	0.003	0.003	0.0003				
%RSD:	17.7	17.7	17.7265				

Element: Hg Seq. No.: 17 AS Loc.: 7 Date: 02/08/2003
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.87	4.87	0.0876	0.4328	0.0885	12:17:13	Yes
2	4.82	4.82	0.0868	0.4301	0.0877	12:17:42	Yes
Mean:	4.85	4.85	0.0872				
SD :	0.032	0.032	0.0006				
%RSD:	0.7	0.7	0.6533				

QC value within specified limits.

Element: Hg Seq. No.: 18 AS Loc.: 1 Date: 02/08/2003
Sample ID: CCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01	0.01	0.0002	0.0039	0.0010	12:18:34	Yes
2	0.01	0.01	0.0001	0.0045	0.0010	12:19:04	Yes
Mean:	0.01	0.01	0.0001				
SD :	0.001	0.001	0.0000				
%RSD:	14.9	14.9	14.9053				

QC value within specified limits.

Element: Hg Seq. No.: 19 AS Loc.: 17 Date: 02/08/2003
Sample ID: B0095-05A

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01	0.01	0.0003	0.0049	0.0011	12:19:54	Yes
2	0.02	0.02	0.0003	0.0050	0.0011	12:20:23	Yes
Mean:	0.02	0.02	0.0003				
SD :	0.001	0.001	0.0000				
%RSD:	4.1	4.1	4.0285				

Element: Hg Seq. No.: 20 AS Loc.: 18 Date: 02/08/2003

000196

Prep Logbooks

- [x] ICP
- [x] Mercury
- [ ] Cyanide
- [ ] Percent Solid

MITKEM CORPORATION: Mercury Digestion Logbook

B0096

Date	Bottle No.	Sample ID		Client ID	Sample Vol (ml)/ Wt (g)	Reagents Added: Conc. H_2SO_4 (ml)	Conc. HNO_3 (ml)	5% $KMnO_4$ (ml)	5% $K_2S_2O_8$ (ml)	Aqua-regia (ml)	Final Volume (ml)	Comments	Analyst
2/1/03	9C	"			100	5.0	2.5	15.0	4.0	–	100		RS
	17F	"			0.5/100							H030228A	
	12G	"			0.2/100								
	323	"			0.4/100								
	198B	"			1.0/100								
	211	"			2.0/100								
	16W	ICV			1/100								
	7J	PBW		MB-5463	1000/100							H030228B	
	36	LCSW		LCS-5527	1/100						100		
	112I	B0095-01A			10/100								
	13	-01	DUP										
	24B	-01	MS										
	325	-02	A										
	4F	-09	A										
	222I	-05	A										
2/7/03	20L	B0095-13	A		10/100	5.0	2.5	15.0	8.0	–			RS

Waters In: 9:50 Out: 11:50 Matrix: Aqueous

Soils In: N/A Out: N/A Matrix: Soil/Solid

LCSS H030123C Spike

SOP# I12

Temp: 95 °C

H_2SO_4 Lot # 3102230
HNO_3 Lot # 1162080
HCl Lot # 4102080
KMnO4 Lot # 037660
K2S2O8 Lot# 045564
Method # 7470A

MITKEM CORPORATION: Aqueous Metals Preparation Logbook

B0096

Date	Sample ID	Client ID	Sample Vol (ml)	pH	Sample Color Before	Clarity Before	Conc. HNO_3 (ml)	Conc. HCl (ml)	1:1 HCl (ml)	Sample Color After	Sample Clarity After	Final Volume (ml)	Comments	Analyst
1/24/03	MB-5277	–	50	<2	–	–	1.0	2.5	–	–	–	50		BH
	LCS-5277			<2										
	MB-5234 SPLP			<2										
	B0096 01			<2										
	02			<2										
	03			<2										
	04			<2										
	05			<2										
	SPLP B0096 06			<2										
	DISS B0100 01B			<2										
	02B			<2										
	03B			<2										
	04B			<2										
	DISS B0100 05B			<2										
	TOTAL B0100 01A			<2										
1/24/03	TOTAL B0100 02A	–	50	<2	–	–	1.0	2.5	–	–	–	50		BH

HCl Lot# 4102080
HNO3 Lot# 1162080

Method: 3005A

Digestion Temp: 95 °C

LCSS/Spike ID: I021212A 45ml, I020222C 45ml, I020222B 45ml

SOP#: I23

Logbook ID 100.0125-1/03

Reviewed By: _____

Logbook page 0001

MITKEM CORPORATION: Mercury Digestion Logbook

Date	Bottle No.	Sample ID		Client ID	Sample Vol (ml)/ Wt (g)	Reagents Added: Conc. H_2SO_4 (ml)	Conc. HNO_3 (ml)	5% $KMnO_4$ (ml)	5% $K_2S_2O_8$ (ml)	Aqua-regia (ml)	Final Volume (ml)	Comments	Analyst
2/7/03	32J	B0095-15	A	–	10/100	5	2.5	15	8	–			RS
2/7/03	~~16F~~ 20R	B0096-07	A	–	10/100	5	2.5	15	8	–			RS
2/7/03	~~20R~~ 16F	MB-5463		–	10/100	5	2.5	15	8	–			RS

BD 2/7/03

Waters In: 9:50 Out: 11:50 Matrix: Aqueous

Soils In: N/A Out: N/A Matrix: Soil/Solid

LCSS H030123C Spike

SOP# I12

Temp: 95 °C

400 / 5

MITKEM CORPORATION: Aqueous Metals Preparation Logbook

B0096

Date	Sample ID	Client ID	Sample Vol (ml)	pH	Sample Color Before	Clarity Before	Conc. HNO_3 (ml)	Conc. HCl (ml)	1:1 HCl (ml)	Sample Color After	Sample Clarity After	Final Volume (ml)	Comments	Analyst
2/7/03	0207 PBW	MB-5530	50	–	–	–	1.0	2.5	–	–	–	50		BH
	0207 (LCSW)	LCS-5530		–										
	MB-5463			<2										
	B0095 01A			<2										
	02A			<2										
	03A			<2										
	04A			<2										
	05A			<2										
	10A			<2										
	11A			<2										
	12A			<2										
	13A			<2										
	14A			<2										
	15A			<2										
	B0095 17A			<2										
2/7/03	B0096 07A	–	50	<2	–	–	1.0	2.5	–	–	–	50		BH

HCl Lot# 4102080
HNO3 Lot# 1162086

Method: 3005A

Digestion Temp: 95 °C

LCSS/Spike ID: I021212A 45ml, I020222B 45ml, I020222C 45ml

SOP#: I23

Logbook ID 100.0125-1/03

Reviewed By: _____

Logbook page 0014

T	Report	Analyte	MDL	PQL	MCL
A	Y	Antimony	3	20	0
A	Y	Arsenic	3	20	0
A	Y	Barium	3	200	0
A	Y	Beryllium	2	6	0
A	Y	Cadmium	2	6	0
A	Y	Chromium	3	20	0
A	Y	Lead	1	10	0
A	Y	Nickel	0.5	50	0
A	Y	Thallium	4	20	0
A	Y	Vanadium	3	50	0
X	N	Aluminum	12	200	0
X	N	Bismuth	0	0	0
X	N	Boron	130	500	0
X	N	Calcium	76	800	0
X	N	Cobalt	3	50	0
X	N	Copper	2	30	0
X	N	Iron	35	200	0
X	N	Lithium	0	0	0
X	N	Magnesium	23	500	0
X	N	Manganese	2	50	0
X	N	Molybdenum	0	0	0
X	N	Potassium	89	500	0
X	N	Selenium	8	30	0
X	N	Silicon	0	0	0
X	N	Silver	2	30	0
X	N	Sodium	120	1000	0
X	N	Strontium	0	0	0
X	N	Tin	0	0	0
X	N	Titanium	0	0	0
X	N	Zinc	8	50	0

Last Page of Data Report

MITKEM CORPORATION

"Environmental Testing For The New Millennium"

August 13, 2003

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Attn: Mr. Daniel Titus

RE: Client Project: Howmet/Turbine, Branford, CT
Mitkem Lab Project # B1247

Dear Mr. Titus:

Enclosed please find the data report of the required analyses for the samples associated with the above referenced project.

If you have any questions regarding this report, please call me.

We appreciate your business.

Sincerely,

Agnes R. Ng
CLP Project Manager

MITKEM CORPORATION

* Data Summary Package *

175 Metro Center Boulevard • Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499 • www.mitkem.com

Analytical Data Package for HRP Associates, Inc.

Client Project: Howmet/Turbine, Branford, CT

Mitkem Project ID: B1247

August 13, 2003

SDG Narrative

Mitkem Corporation submits the enclosed data package in response to HRP Associates' Howmet/Turbine, Branford, CT project. Under this deliverable, analysis results are presented for one aqueous sample that was received by Mitkem on August 1, 2003. Analyses were performed per specifications in the project's contract and the chain of custody forms. Following the narrative is the Mitkem Work Order for cross-referencing client sample ID with laboratory sample ID.

The analyses were performed according to EPA SW-846 and State of Connecticut protocols and reported in a CLP-format for Level 4 deliverable.

The following observation and/or deviations are observed for the following analyses:

1. Overall Observation:

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- **M1** peak tailing or fronting.
- **M2** peak co-elution.
- **M3** rising or falling baseline.
- **M4** retention time shift.
- M5 miscellaneous – under this category, the justification is explained.

The enclosed report includes the originals of all data with the exception of logbook pages and certain initial calibrations. Photocopies of logbook pages are included, with the originals maintained on file at the laboratory. The originals of initial calibrations that are shared among several cases are maintained on file at the laboratory, with photocopies included in the data package.

2. Volatile Analysis:

Surrogate recovery: recoveries were within the QC limits.

Lab control sample: spike recoveries were within the QC limits.

Sample analysis: no unusual observation was made for the analyses.

The pages in this report have been numbered consecutively, starting from this narrative and ending with a page saying only "Last Page of Data Report".

I certify that this data package is in compliance, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Agnes Ng
CLP Project Manager
08/13/03

Mitkem Corporation — **WorkOrder: B1247** — *04/Aug/03 11:07*

Client ID: HRP
Project: Former Howe Furniture Facility HOW-0016.RA/T
Location:
Comments: N/A

Case:
SDG:
PO: HOW/0016.RA

Report Level: LEVEL 4
EDD: XL
HC Due: 08/22/03
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Inid	MS	SEL	Storage
B1247-01A	MW-OTHERS	07/22/03 12:00	08/01/03	Aqueous	SW8260B_W		☐	☐	☐	VOA

Page 1 of 1

Client Rep: Agnes R Ng

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-OTHERS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247
Matrix: (soil/water) WATER Lab Sample ID: B1247-01A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C8152
Level: (low/med) LOW Date Received: 08/01/03
% Moisture: not dec. _____ Date Analyzed: 08/05/03
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
74-88-4	Iodomethane	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	4	J
75-34-3	1,1-Dichloroethane	5	U
108-05-4	Vinyl acetate	5	U
78-93-3	2-Butanone	6	
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
MW-OTHERS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247
Matrix: (soil/water) WATER Lab Sample ID: B1247-01A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C8152
Level: (low/med) LOW Date Received: 08/01/03
% Moisture: not dec. _____ Date Analyzed: 08/05/03
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
142-28-9	1,3-Dichloropropane	5	U
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-OTHERS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247
Matrix: (soil/water) WATER Lab Sample ID: B1247-01A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C8152
Level: (low/med) LOW Date Received: 08/01/03
% Moisture: not dec. _____ Date Analyzed: 08/05/03
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V6FLCS

Lab Name: MITKEM CORPORATION Contract:
Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247
Matrix: (soil/water) WATER Lab Sample ID: V6L0805A
Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C8143
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 08/05/03
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	38	
74-87-3	Chloromethane	46	
75-01-4	Vinyl Chloride	42	
74-83-9	Bromomethane	41	
75-00-3	Chloroethane	43	
75-69-4	Trichlorofluoromethane	44	
75-35-4	1,1-Dichloroethene	44	
67-64-1	Acetone	45	
74-88-4	Iodomethane	44	
75-15-0	Carbon Disulfide	51	
75-09-2	Methylene Chloride	49	
156-60-5	trans-1,2-Dichloroethene	48	
1634-04-4	Methyl tert-butyl ether	48	
75-34-3	1,1-Dichloroethane	49	
108-05-4	Vinyl acetate	60	
78-93-3	2-Butanone	56	
156-59-2	cis-1,2-Dichloroethene	47	
590-20-7	2,2-Dichloropropane	49	
74-97-5	Bromochloromethane	50	
67-66-3	Chloroform	49	
71-55-6	1,1,1-Trichloroethane	48	
563-58-6	1,1-Dichloropropene	48	
56-23-5	Carbon Tetrachloride	47	
107-06-2	1,2-Dichloroethane	50	
71-43-2	Benzene	50	
79-01-6	Trichloroethene	47	
78-87-5	1,2-Dichloropropane	51	
74-95-3	Dibromomethane	52	
75-27-4	Bromodichloromethane	49	
10061-01-5	cis-1,3-Dichloropropene	49	
108-10-1	4-Methyl-2-pentanone	58	
108-88-3	Toluene	51	
10061-02-6	trans-1,3-Dichloropropene	51	
79-00-5	1,1,2-Trichloroethane	52	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: V6FLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Matrix: (soil/water) WATER Lab Sample ID: V6L0805A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C8143

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/05/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
142-28-9	1,3-Dichloropropane	51	
127-18-4	Tetrachloroethene	47	
591-78-6	2-Hexanone	59	
124-48-1	Dibromochloromethane	48	
106-93-4	1,2-Dibromoethane	50	
108-90-7	Chlorobenzene	49	
630-20-6	1,1,1,2-Tetrachloroethane	47	
100-41-4	Ethylbenzene	50	
	m,p-Xylene	100	
95-47-6	o-Xylene	52	
1330-20-7	Xylene (Total)	160	
100-42-5	Styrene	53	
75-25-2	Bromoform	53	
98-82-8	Isopropylbenzene	53	
79-34-5	1,1,2,2-Tetrachloroethane	52	
108-86-1	Bromobenzene	47	
96-18-4	1,2,3-Trichloropropane	51	
103-65-1	n-Propylbenzene	48	
95-49-8	2-Chlorotoluene	48	
108-67-8	1,3,5-Trimethylbenzene	48	
106-43-4	4-Chlorotoluene	49	
98-06-6	tert-Butylbenzene	49	
95-63-6	1,2,4-Trimethylbenzene	49	
135-98-8	sec-Butylbenzene	50	
99-87-6	4-Isopropyltoluene	49	
541-73-1	1,3-Dichlorobenzene	49	
106-46-7	1,4-Dichlorobenzene	48	
104-51-8	n-Butylbenzene	50	
95-50-1	1,2-Dichlorobenzene	49	
96-12-8	1,2-Dibromo-3-chloropropane	54	
120-82-1	1,2,4-Trichlorobenzene	49	
87-68-3	Hexachlorobutadiene	47	
91-20-3	Naphthalene	52	
87-61-6	1,2,3-Trichlorobenzene	51	

FORM I VOA OLM03.0

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

	EPA SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	VBLK6F	98	109	102	88	0
02	V6FLCS	96	106	98	104	0
03	MW-OTHERS	100	111	106	86	0
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
SMC1	= Dibromofluoromethane	(78-117)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(62-124)
SMC3 (TOL)	= Toluene-d8	(81-116)
OTHER (BFB)	= Bromofluorobenzene	(74-126)

Column to be used to flag recovery values

* Values outside of contract required QC limits

page 1 of 1 FORM II VOA-1 OLM03.0

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Matrix Spike - Sample No.: V6FLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	50		38	76	48-135
Chloromethane	50		46	92	60-118
Vinyl Chloride	50		42	84	65-113
Bromomethane	50		41	82	73-122
Chloroethane	50		43	86	72-118
Trichlorofluoromethane	50		44	88	68-129
1,1-Dichloroethene	50		44	88	67-121
Acetone	50		45	90	38-161
Iodomethane	50		44	88	72-130
Carbon Disulfide	50		51	102	53-137
Methylene Chloride	50		49	98	59-132
trans-1,2-Dichloroethen	50		48	96	71-124
Methyl tert-butyl ether	50		48	96	75-123
1,1-Dichloroethane	50		49	98	83-116
Vinyl acetate	50		60	120	44-160
2-Butanone	50		56	112	64-139
cis-1,2-Dichloroethene	50		47	94	83-120
2,2-Dichloropropane	50		49	98	70-129
Bromochloromethane	50		50	100	85-124
Chloroform	50		49	98	89-118
1,1,1-Trichloroethane	50		48	96	81-122
1,1-Dichloropropene	50		48	96	76-122
Carbon Tetrachloride	50		47	94	79-125
1,2-Dichloroethane	50		50	100	83-123
Benzene	50		50	100	81-120
Trichloroethene	50		47	94	77-121
1,2-Dichloropropane	50		51	102	81-116
Dibromomethane	50		52	104	86-124

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

page 1 of 3 FORM III VOA

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Matrix Spike - Sample No.: V6FLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Bromodichloromethane	50		49	98	90-114
cis-1,3-Dichloropropene	50		49	98	78-119
4-Methyl-2-pentanone	50		58	116	57-138
Toluene	50		51	102	81-121
trans-1,3-Dichloroprope	50		51	102	85-118
1,1,2-Trichloroethane	50		52	104	44-159
1,3-Dichloropropane	50		51	102	79-125
Tetrachloroethene	50		47	94	73-121
2-Hexanone	50		59	118	53-145
Dibromochloromethane	50		48	96	80-124
1,2-Dibromoethane	50		50	100	80-124
Chlorobenzene	50		49	98	82-118
1,1,1,2-Tetrachloroetha	50		47	94	84-121
Ethylbenzene	50		50	100	80-122
Xylene (Total)	150		160	107	81-121
Styrene	50		53	106	77-128
Bromoform	50		53	106	77-130
Isopropylbenzene	50		53	106	58-148
1,1,2,2-Tetrachloroetha	50		52	104	76-125
Bromobenzene	50		47	94	76-124
1,2,3-Trichloropropane	50		51	102	57-140
n-Propylbenzene	50		48	96	72-119
2-Chlorotoluene	50		48	96	75-120
1,3,5-Trimethylbenzene	50		48	96	76-116
4-Chlorotoluene	50		49	98	78-116
tert-Butylbenzene	50		49	98	71-115
1,2,4-Trimethylbenzene	50		49	98	77-117
sec-Butylbenzene	50		50	100	67-117

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

page 2 of 3 FORM III VOA

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Matrix Spike - Sample No.: V6FLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
4-Isopropyltoluene	50		49	98	68-118
1,3-Dichlorobenzene	50		49	98	80-116
1,4-Dichlorobenzene	50		48	96	80-114
n-Butylbenzene	50		50	100	58-121
1,2-Dichlorobenzene	50		49	98	81-116
1,2-Dibromo-3-chloropro	50		54	108	71-126
1,2,4-Trichlorobenzene	50		49	98	67-114
Hexachlorobutadiene	50		47	94	50-111
Naphthalene	50		52	104	58-133
1,2,3-Trichlorobenzene	50		51	102	64-118

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 66 outside limits

COMMENTS: _____

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK6F

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Lab File ID: V6C8142 Lab Sample ID: V6B0805A

Date Analyzed: 08/05/03 Time Analyzed: 1024

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: V6

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V6FLCS	V6L0805A	V6C8143	1053
02	MW-OTHERS	B1247-01A	V6C8152	1627
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK6F

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Matrix: (soil/water) WATER Lab Sample ID: V6B0805A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C8142

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/05/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
74-88-4	Iodomethane	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
108-05-4	Vinyl acetate	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK6F

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Matrix: (soil/water) WATER Lab Sample ID: V6B0805A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C8142

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/05/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
142-28-9	1,3-Dichloropropane	5	U
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
V6LK6F

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Matrix: (soil/water) WATER Lab Sample ID: V6B0805A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C8142

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/05/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

FORM I VOA-TIC OLM03.0

0016

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Lab File ID (Standard): V6C8141 Date Analyzed: 08/05/03

Instrument ID: V6 Time Analyzed: 0939

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1 AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	2506834	6.87	1864944	10.59	1117246	13.42
	UPPER LIMIT	5013668	7.37	3729888	11.09	2234492	13.92
	LOWER LIMIT	1253417	6.37	932472	10.09	558623	12.92
	EPA SAMPLE NO.						
01	VBLK6F	2484884	6.87	1760259	10.59	827573	13.42
02	V6FLCS	2440628	6.87	1839490	10.59	1068253	13.42
03	MW-OTHERS	1849650	6.86	1263686	10.59	559114	13.42
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

page 1 of 1

FORM VIII VOA OLM03.0

0017

Analytical Data Package for HRP Associates, Inc.

Client Project: Howmet/Turbine, Branford, CT

Mitkem Project ID: B1247

August 13, 2003

SDG Narrative

Mitkem Corporation submits the enclosed data package in response to HRP Associates' Howmet/Turbine, Branford, CT project. Under this deliverable, analysis results are presented for one aqueous sample that was received by Mitkem on August 1, 2003. Analyses were performed per specifications in the project's contract and the chain of custody forms. Following the narrative is the Mitkem Work Order for cross-referencing client sample ID with laboratory sample ID.

The analyses were performed according to EPA SW-846 and State of Connecticut protocols and reported in a CLP-format for Level 4 deliverable.

The following observation and/or deviations are observed for the following analyses:

1. Overall Observation:

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting.
- M2 peak co-elution.
- M3 rising or falling baseline.
- M4 retention time shift.
- M5 miscellaneous – under this category, the justification is explained.

The enclosed report includes the originals of all data with the exception of logbook pages and certain initial calibrations. Photocopies of logbook pages are included, with the originals maintained on file at the laboratory. The originals of initial calibrations that are shared among several cases are maintained on file at the laboratory, with photocopies included in the data package.

2. Volatile Analysis:

Surrogate recovery: recoveries were within the QC limits.

Lab control sample: spike recoveries were within the QC limits.

Sample analysis: no unusual observation was made for the analyses.

00-1

The pages in this report have been numbered consecutively, starting from this narrative and ending with a page saying only "Last Page of Data Report".

I certify that this data package is in compliance, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Agnes Ng
CLP Project Manager
08/13/03

Mitkem Corporation *04/Aug/03 11:07* **WorkOrder: B1247**

Client ID: HRP Case: Report Level: LEVEL 4
Project: Former Howe Furniture Facility HOW-0016.RA/T SDG: EDD: XL
Location: PO: HOW0016.RA HC Due: 08/22/03
Comments: N/A Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Test Code Comments	Sold	MS	SEL Storage
B1247-01A	MW-OTHERS	07/22/03 12:00	08/01/03	Aqueous	SW8260B_W				VOA

Page 1 of 1

Client Rep: Agnes R Ng

Sample Transmittal Documentation

HRP Associates, Inc.
167 New Britain Avenue
Plainville, CT 06062
Phone: 860-793-6899
Fax: 860-793-6871

HRP

CHAIN OF CUSTODY

Sheet 1 of 1
Job Number HOW0016.RA
Project Manager DDT

Place & Address of Collection: Hammet/Turbine, Branford CT
Samplers Name (Signature): John Moss

Sample I.D.	Sample Location	Container Type	Total Volume	Preservative	Date	Time	Sample Matrix	Remarks
~~TRIP BLK (0-2')~~	~~Boring~~	~~G~~	~~Amb~~	~~Methanol~~	~~7/~~			
MW-OTHERS	MW	G	Amb	HCl, cool	7/22/03		Water	

Relinquished By (Signature): Dale L. Cross — Received By (Signature): — Date 8-1-03 — Time 0830
Relinquished By (Signature): — Received By (Signature): — Date — Time
Name & Address of Laboratory: Mitkem

Parameters	Sample ID: MW-OTHERS
8260	X

Laboratory minimum detection limits must be no greater than the residential and/or "GA/GAA" standards promulgated by the CT DEP in the "Remediation Standard Regulations" (RSR) and "Approved Criteria for Additional Polluting Substances" pursuant to RCSA 22a-133k(1) through (3), unless otherwise indicated.

Remarks:

Abbreviations: G - Glass P - Plastic A - Amber T - TCLP Analysis M - Mass Analysis S - SPLP Analysis

White Copy - Accounting Yellow Copy - Lab Pink Copy - Field Services Gold Copy - Job File

c.) Chain of Custody Remark

N-00705

MITKEM CORPORATION
Sample Condition Form

Page 1 of 1

Received By: [illegible] Reviewed By: SK Date: 8-1-03 MITKEM Project: B1247
Client Project:
Client: HRP

Lab Sample ID	HNO3	H2SO4	HCl	NaOH	VOA MATRIX
B1247001					H

1) Cooler Sealed (YES / NO*)

2)Custody Seal(s) Present / Absent
Coolers / Bottles
Intact / Broken

Custody Seal Numbers

3)Chain -of- Custody (Present) / Absent

4)Airbill(s) Present / (Absent)

Airbill Number(s) Cooler

5)Cooler Temperature 4C

Coolant Condition Ice

6)Sample Bottles (Intact)/Broken/Leaking

7)Date Received 8-1-03

8)Time Received 0830

VOA Matrix Key:
US = Unpreserved Soil
UA = Unpreserved Aqueous
M/N = MeOH& NaHSO4
N = NaHSO4 M = MeOH
A = Air
H = HCl
E=Encore

See Sample Condition Notification / Corrective Action Form yes / (no)
Comments / / Remarks Rad OK (yes) / no

FORM ID 30 QUAPPSAMPLECOND FORM

0006

MITKEM CORPORATION

* Volatiles *

0007

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

	EPA SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	VBLK6F	98	109	102	88	0
02	V6FLCS	96	106	98	104	0
03	MW-OTHERS	100	111	106	86	0
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
SMC1	= Dibromofluoromethane	(78-117)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(62-124)
SMC3 (TOL)	= Toluene-d8	(81-116)
OTHER(BFB)	= Bromofluorobenzene	(74-126)

Column to be used to flag recovery values

* Values outside of contract required QC limits

0008

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Matrix Spike - Sample No.: V6FLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Dichlorodifluoromethane	50		38	76	48-135
Chloromethane	50		46	92	60-118
Vinyl Chloride	50		42	84	65-113
Bromomethane	50		41	82	73-122
Chloroethane	50		43	86	72-118
Trichlorofluoromethane	50		44	88	68-129
1,1-Dichloroethene	50		44	88	67-121
Acetone	50		45	90	38-161
Iodomethane	50		44	88	72-130
Carbon Disulfide	50		51	102	53-137
Methylene Chloride	50		49	98	59-132
trans-1,2-Dichloroethen	50		48	96	71-124
Methyl tert-butyl ether	50		48	96	75-123
1,1-Dichloroethane	50		49	98	83-116
Vinyl acetate	50		60	120	44-160
2-Butanone	50		56	112	64-139
cis-1,2-Dichloroethene	50		47	94	83-120
2,2-Dichloropropane	50		49	98	70-129
Bromochloromethane	50		50	100	85-124
Chloroform	50		49	98	89-118
1,1,1-Trichloroethane	50		48	96	81-122
1,1-Dichloropropene	50		48	96	76-122
Carbon Tetrachloride	50		47	94	79-125
1,2-Dichloroethane	50		50	100	83-123
Benzene	50		50	100	81-120
Trichloroethene	50		47	94	77-121
1,2-Dichloropropane	50		51	102	81-116
Dibromomethane	50		52	104	86-124

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

0009

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Matrix Spike - Sample No.: V6FLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Bromodichloromethane	50		49	98	90-114
cis-1,3-Dichloropropene	50		49	98	78-119
4-Methyl-2-pentanone	50		58	116	57-138
Toluene	50		51	102	81-121
trans-1,3-Dichloroprope	50		51	102	85-118
1,1,2-Trichloroethane	50		52	104	44-159
1,3-Dichloropropane	50		51	102	79-125
Tetrachloroethene	50		47	94	73-121
2-Hexanone	50		59	118	53-145
Dibromochloromethane	50		48	96	80-124
1,2-Dibromoethane	50		50	100	80-124
Chlorobenzene	50		49	98	82-118
1,1,1,2-Tetrachloroetha	50		47	94	84-121
Ethylbenzene	50		50	100	80-122
Xylene (Total)	150		160	107	81-121
Styrene	50		53	106	77-128
Bromoform	50		53	106	77-130
Isopropylbenzene	50		53	106	58-148
1,1,2,2-Tetrachloroetha	50		52	104	76-125
Bromobenzene	50		47	94	76-124
1,2,3-Trichloropropane	50		51	102	57-140
n-Propylbenzene	50		48	96	72-119
2-Chlorotoluene	50		48	96	75-120
1,3,5-Trimethylbenzene	50		48	96	76-116
4-Chlorotoluene	50		49	98	78-116
tert-Butylbenzene	50		49	98	71-115
1,2,4-Trimethylbenzene	50		49	98	77-117
sec-Butylbenzene	50		50	100	67-117

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Matrix Spike - Sample No.: V6FLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
4-Isopropyltoluene	50		49	98	68-118
1,3-Dichlorobenzene	50		49	98	80-116
1,4-Dichlorobenzene	50		48	96	80-114
n-Butylbenzene	50		50	100	58-121
1,2-Dichlorobenzene	50		49	98	81-116
1,2-Dibromo-3-chloropro	50		54	108	71-126
1,2,4-Trichlorobenzene	50		49	98	67-114
Hexachlorobutadiene	50		47	94	50-111
Naphthalene	50		52	104	58-133
1,2,3-Trichlorobenzene	50		51	102	64-118

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 66 outside limits

COMMENTS: _____

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.: VBLK6F

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Lab File ID: V6C8142 Lab Sample ID: V6B0805A

Date Analyzed: 08/05/03 Time Analyzed: 1024

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: V6

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	V6FLCS	V6L0805A	V6C8143	1053
02	MW-OTHERS	B1247-01A	V6C8152	1627
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Lab File ID: V6C8100 BFB Injection Date: 08/02/03

Instrument ID: V6 BFB Injection Time: 0904

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.6
75	30.0 - 60.0% of mass 95	48.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.3 (0.3)1
174	50.0 - 100.0% of mass 95	84.5
175	5.0 - 9.0% of mass 174	5.3 (6.3)1
176	95.0 - 101.0% of mass 174	81.8 (96.8)1
177	5.0 - 9.0% of mass 176	5.4 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0506C	V6S0802A	V6C8101	08/02/03	0928
02	VSTD0056C	V6S0802B	V6C8102	08/02/03	0955
03	VSTD2006C	V6S0802C	V6C8103	08/02/03	1022
04	VSTD1006C	V6S0802D	V6C8104	08/02/03	1050
05	VSTD0206C	V6S0802E	V6C8105	08/02/03	1117
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Lab File ID: V6C8140 BFB Injection Date: 08/05/03

Instrument ID: V6 BFB Injection Time: 0915

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.8
75	30.0 - 60.0% of mass 95	51.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 100.0% of mass 95	80.7
175	5.0 - 9.0% of mass 174	5.2 (6.5)1
176	95.0 - 101.0% of mass 174	78.4 (97.1)1
177	5.0 - 9.0% of mass 176	4.9 (6.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD0506E	V6S0805A	V6C8141	08/05/03	0939
02	VBLK6F	V6B0805A	V6C8142	08/05/03	1024
03	V6FLCS	V6L0805A	V6C8143	08/05/03	1053
04	MW-OTHERS	B1247-01A	V6C8152	08/05/03	1627
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Lab File ID (Standard): V6C8141 Date Analyzed: 08/05/03

Instrument ID: V6 Time Analyzed: 0939

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

		IS1 AREA #	RT #	IS2(CBZ) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	2506834	6.87	1864944	10.59	1117246	13.42
	UPPER LIMIT	5013668	7.37	3729888	11.09	2234492	13.92
	LOWER LIMIT	1253417	6.37	932472	10.09	558623	12.92
	EPA SAMPLE NO.						
01	VBLK6F	2484884	6.87	1760254	10.59	827573	13.42
02	V6FLCS	2440628	6.87	1839490	10.59	1068253	13.42
03	MW-OTHERS	1849650	6.86	1263686	10.59	559114	13.42
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-OTHERS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Matrix: (soil/water) WATER Lab Sample ID: B1247-01A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C8152

Level: (low/med) LOW Date Received: 08/01/03

% Moisture: not dec. _____ Date Analyzed: 08/05/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
74-88-4	Iodomethane	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	4	J
75-34-3	1,1-Dichloroethane	5	U
108-05-4	Vinyl acetate	5	U
78-93-3	2-Butanone	6	
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-OTHERS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Matrix: (soil/water) WATER Lab Sample ID: B1247-01A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C8152

Level: (low/med) LOW Date Received: 08/01/03

% Moisture: not dec. _____ Date Analyzed: 08/05/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
142-28-9	1,3-Dichloropropane	5	U
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MW-OTHERS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Matrix: (soil/water) WATER Lab Sample ID: B1247-01A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C8152

Level: (low/med) LOW Date Received: 08/01/03

% Moisture: not dec. _____ Date Analyzed: 08/05/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

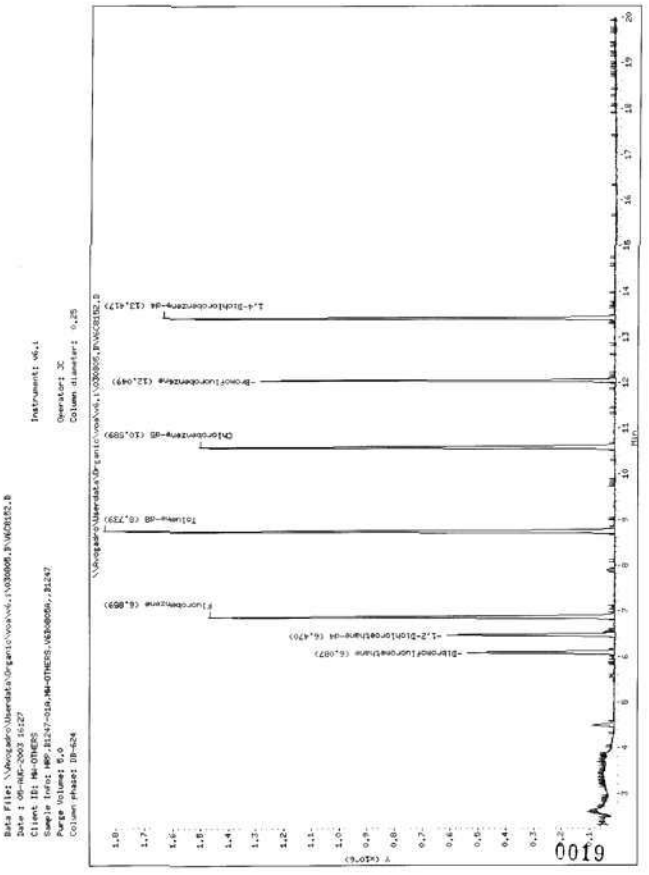
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM03.0

0018



0019

Data File: \\Avogadro\Userdata\Organic\voa\v6.i\030805.B\V6C8152.D
Report Date: 12-Aug-2003 11:01

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Userdata\Organic\voa\v6.i\030805.B\V6C8152.D
Lab Smp Id: B1247-01A Client Smp ID: MW-OTHERS
Inj Date : 05-AUG-2003 16:27
Operator : JC Inst ID: v6.i
Smp Info : HRP,B1247-01A,MW-OTHERS,V6B0805A,,B1247
Misc Info : 01-AUG-03
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\030805.B\v68260.m
Meth Date : 12-Aug-2003 09:52 mtl Quant Type: ISTD
Cal Date : 02-AUG-2003 11:17 Cal File: V6C8105.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
	9 Vinyl Chloride	62	2.308	2.333	(0.337)	72349	5.30120	5(M)	NS: SEE ATT PAGE GK 8/12/03
	17 Methyl tert-butyl ether	73	4.492	4.505	(0.655)	101276	4.01487	4(a)	
	22 2-Butanone	43	5.575	5.575	(0.813)	22547	6.12124	6	
$	30 Dibromofluoromethane	113	6.086	6.092	(0.887)	456167	49.7876	50	
$	35 1,2-Dichloroethane-d4	102	6.469	6.476	(0.943)	121149	55.4887	55	
*	38 Fluorobenzene	96	6.859	6.865	(1.000)	1849650	50.0000		
$	47 Toluene-d8	98	8.739	8.739	(0.825)	1733859	52.8845	53	
*	57 Chlorobenzene-d5	117	10.588	10.588	(1.000)	1263686	50.0000		
$	68 Bromofluorobenzene	95	12.048	12.048	(1.138)	581912	43.1891	43	
*	82 1,4-Dichlorobenzene-d4	152	13.423	13.417	(1.000)	599714	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

GK 8/12/03

0020

Data File: \\Avogadro\Userdata\Organic\voa\v6.i\030805.B\V6C8152.D
Report Date: 12-Aug-2003 11:01

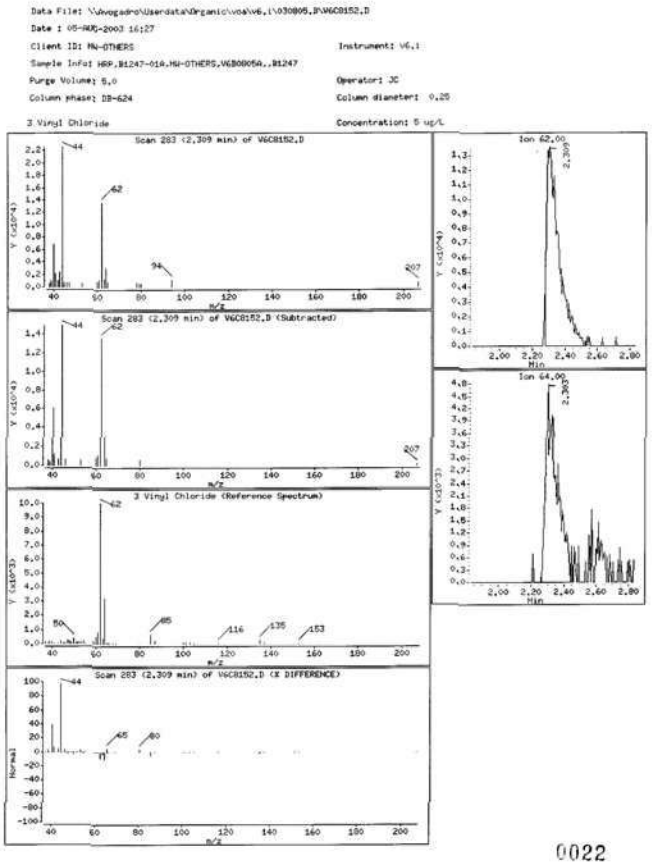
Mitkem Corporation

Method 8260 Water and Medium Soil

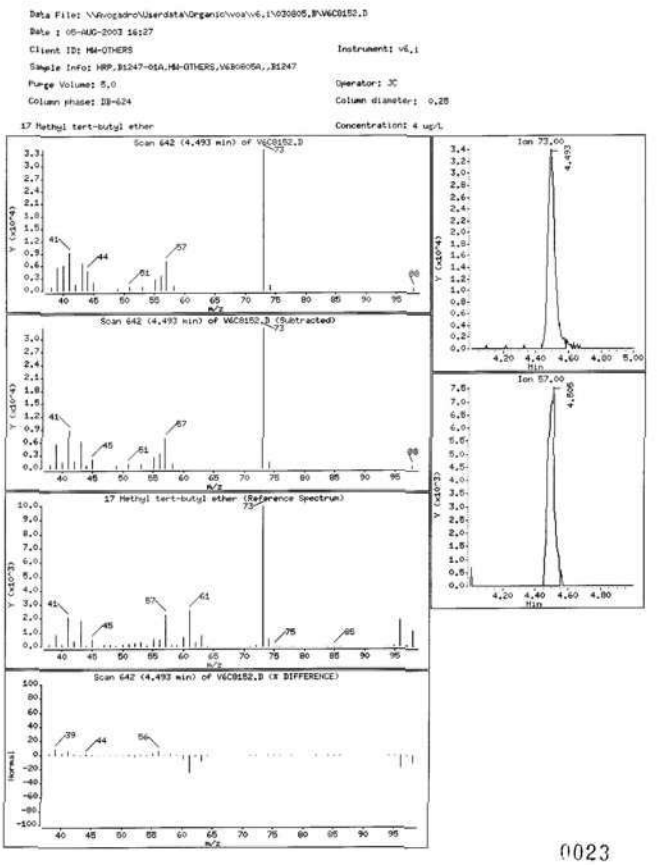
Data file : \\Avogadro\Userdata\Organic\voa\v6.i\030805.B\V6C8152.D
Lab Smp Id: B1247-01A Client Smp ID: MW-OTHERS
Inj Date : 05-AUG-2003 16:27
Operator : JC Inst ID: v6.i
Smp Info : HRP,B1247-01A,MW-OTHERS,V6B0805A,,B1247
Misc Info : 01-AUG-03
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\030805.B\v68260.m
Meth Date : 12-Aug-2003 09:52 mtl Quant Type: ISTD
Cal Date : 02-AUG-2003 11:17 Cal File: V6C8105.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.12

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

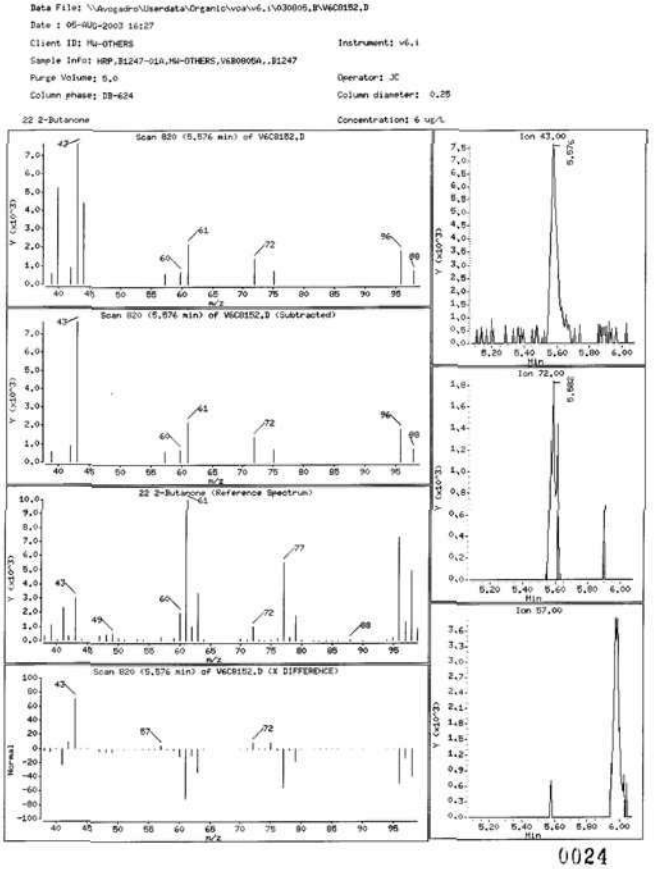
0021



0022



0023



0024

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Instrument ID: V6 Calibration Date(s): 08/02/03 08/02/03

Heated Purge: (Y/N) N Calibration Time(s): 0928 1117

GC Column: DB-624 ID: 0.25 (mm)

LAB FILE ID: RRF5 =V6C8102 RRF20 =V6C8105
RRF50 =V6C8101 RRF100=V6C8104 RRF200=V6C8103

COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	%RSD
Dichlorodifluoromethane	0.224	0.227	0.190	0.208	0.186	0.207	9.1
Chloromethane *	0.409	0.401	0.320	0.384	0.317	0.366	12.1*
Vinyl Chloride	0.400	0.401	0.345	0.377	0.322	0.369	9.4
Bromomethane	0.227	0.212	0.188	0.188	0.168	0.197	11.7
Chloroethane	0.231	0.218	0.202	0.206	0.190	0.209	7.3
Trichlorofluoromethane	0.320	0.342	0.336	0.333	0.307	0.328	4.2
1,1-Dichloroethene	0.122	0.130	0.127	0.122	0.113	0.123	5.1
Acetone	0.106	0.078	0.093	0.066	0.061	0.081	23.1
Iodomethane	0.272	0.269	0.270	0.268	0.252	0.266	3.1
Carbon Disulfide	0.462	0.479	0.513	0.513	0.514	0.496	4.9
Methylene Chloride	0.194	0.198	0.186	0.186	0.174	0.188	4.9
trans-1,2-Dichloroethene	0.166	0.166	0.158	0.157	0.154	0.160	3.6
Methyl tert-butyl ether	0.717	0.693	0.672	0.691	0.634	0.681	4.5
1,1-Dichloroethane *	0.404	0.393	0.370	0.371	0.351	0.378	5.5*
Vinyl acetate	0.363	0.318	0.368	0.381	0.367	0.359	6.7
2-Butanone	0.123	0.096	0.098	0.094	0.086	0.099	14.0
cis-1,2-Dichloroethene	0.243	0.230	0.228	0.225	0.221	0.229	3.7
2,2-Dichloropropane	0.231	0.214	0.185	0.207	0.197	0.207	8.4
Bromochloromethane	0.110	0.106	0.108	0.104	0.100	0.106	3.7
Chloroform	0.493	0.461	0.438	0.436	0.423	0.450	6.1
1,1,1-Trichloroethane	0.328	0.317	0.302	0.307	0.305	0.312	3.4
1,1-Dichloropropene	0.102	0.092	0.095	0.094	0.093	0.096	4.1
Carbon Tetrachloride	0.285	0.269	0.268	0.263	0.268	0.271	3.1
1,2-Dichloroethane	0.356	0.336	0.320	0.310	0.304	0.325	6.4
Benzene	0.928	0.887	0.862	0.854	0.825	0.871	4.5
Trichloroethene	0.227	0.226	0.225	0.220	0.223	0.224	1.1
1,2-Dichloropropane	0.276	0.268	0.260	0.265	0.262	0.266	2.3
Dibromomethane	0.160	0.157	0.152	0.153	0.154	0.155	2.2
Bromodichloromethane	0.396	0.375	0.369	0.371	0.369	0.376	3.0
cis-1,3-Dichloropropene	0.433	0.436	0.443	0.452	0.456	0.444	2.3
4-Methyl-2-pentanone	0.190	0.188	0.188	0.202	0.190	0.192	3.1
Toluene	1.119	1.095	1.064	1.020	0.958	1.051	6.1
trans-1,3-Dichloropropene	0.407	0.411	0.423	0.428	0.435	0.421	2.8
1,1,2-Trichloroethane	0.253	0.246	0.234	0.244	0.241	0.244	2.8
1,3-Dichloropropane	0.614	0.597	0.569	0.603	0.572	0.591	3.3
Tetrachloroethene	0.284	0.271	0.262	0.271	0.264	0.270	3.2
2-Hexanone	0.170	0.173	0.179	0.195	0.182	0.180	5.4

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

0025

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Instrument ID: V6 Calibration Date(s): 08/02/03 08/02/03

Heated Purge: (Y/N) N Calibration Time(s): 0928 1117

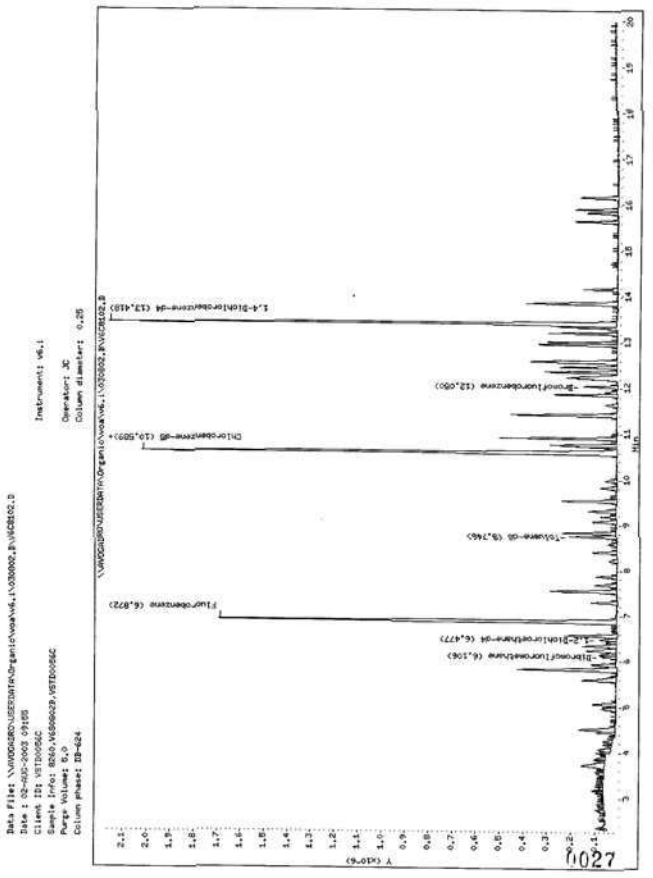
GC Column: DB-624 ID: 0.25 (mm)

LAB FILE ID: RRF5 =V6C8102 RRF20 =V6C8105
RRF50 =V6C8101 RRF100=V6C8104 RRF200=V6C8103

COMPOUND	RRF5	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
Dibromochloromethane	0.357	0.333	0.343	0.352	0.351	0.347	2.7
1,2-Dibromoethane	0.338	0.323	0.318	0.330	0.321	0.326	2.4
Chlorobenzene	* 1.146	1.075	1.031	1.018	0.967	1.047	6.4*
1,1,1,2-Tetrachloroethane	0.393	0.361	0.346	0.350	0.350	0.360	5.4
Ethylbenzene	0.583	0.562	0.568	0.568	0.573	0.571	1.4
m,p-Xylene	0.690	0.713	0.694	0.679	0.640	0.683	4.0
o-Xylene	0.654	0.686	0.701	0.705	0.694	0.688	2.9
Xylene (Total)	0.678	0.704	0.697	0.688	0.658	0.685	2.6
Styrene	1.174	1.216	1.204	1.163	1.067	1.165	5.1
Bromoform	* 0.219	0.224	0.243	0.242	0.241	0.234	4.8*
Isopropylbenzene	1.566	1.660	1.678	1.594	1.440	1.588	6.0
1,1,2,2-Tetrachloroethane	* 0.973	0.898	0.832	0.882	0.847	0.886	6.2*
Bromobenzene	0.835	0.802	0.754	0.764	0.770	0.785	4.2
1,2,3-Trichloropropane	1.150	1.070	1.042	1.071	1.041	1.075	4.2
n-Propylbenzene	0.954	0.962	0.950	0.974	0.992	0.966	1.8
2-Chlorotoluene	0.824	0.806	0.798	0.802	0.812	0.808	1.3
1,3,5-Trimethylbenzene	2.840	2.800	2.652	2.562	2.352	2.641	7.5
4-Chlorotoluene	0.894	0.868	0.830	0.825	0.822	0.848	3.8
tert-Butylbenzene	2.954	2.968	2.945	2.881	2.700	2.890	3.9
1,2,4-Trimethylbenzene	2.933	2.920	2.765	2.646	2.425	2.738	7.7
sec-Butylbenzene	3.698	3.663	3.545	3.368	3.022	3.459	8.0
4-Isopropyltoluene	2.859	2.886	2.865	2.698	2.467	2.755	6.5
1,3-Dichlorobenzene	1.658	1.598	1.534	1.483	1.436	1.542	5.7
1,4-Dichlorobenzene	1.875	1.652	1.572	1.499	1.450	1.610	10.4
n-Butylbenzene	2.875	3.058	2.944	2.721	2.428	2.805	8.7
1,2-Dichlorobenzene	1.639	1.547	1.487	1.436	1.363	1.494	7.1
1,2-Dibromo-3-chloropropane	0.163	0.155	0.158	0.165	0.161	0.160	2.6
1,2,4-Trichlorobenzene	0.970	0.976	1.041	1.054	1.046	1.017	4.0
Hexachlorobutadiene	0.447	0.414	0.434	0.452	0.480	0.445	5.4
Naphthalene	2.471	2.338	2.397	2.454	2.234	2.379	4.1
1,2,3-Trichlorobenzene	0.903	0.891	0.955	0.966	0.946	0.932	3.6
Dibromofluoromethane	0.239	0.256	0.246	0.250	0.247	0.248	2.6
1,2-Dichloroethane-d4	0.042	0.067	0.061	0.063	0.063	0.059	16.5
Toluene-d8	1.284	1.405	1.295	1.305	1.196	1.297	5.7
Bromofluorobenzene	0.466	0.536	0.547	0.560	0.557	0.533	7.2

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM VI VOA OLM03.0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\030802.B\V6C8102.D
Report Date: 11-Aug-2003 16:51

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\030802.B\V6C8102.D
Lab Smp Id: V6S0802B Client Smp ID: VSTD0056C
Inj Date : 02-AUG-2003 09:55
Operator : JC Inst ID: v6.i
Smp Info : 8260,V6S0802B,VSTD0056C
Misc Info : ,1,1
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\030802.B\v68260.m
Meth Date : 08-Aug-2003 13:55 mtl Quant Type: ISTD
Cal Date : 02-AUG-2003 09:28 Cal File: V6C8101.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET5

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.957	1.957	(0.285)	48108	5.00000	5
116 Freon114	85	2.127	2.127	(0.310)	76324	5.00000	6
2 Chloromethane	50	2.176	2.176	(0.317)	87612	5.00000	6
3 Vinyl Chloride	62	2.328	2.322	(0.339)	85805	5.00000	5
4 Bromomethane	94	2.730	2.717	(0.397)	48708	5.00000	6
5 Chloroethane	64	2.857	2.851	(0.416)	49430	5.00000	6
6 Trichlorofluoromethane	101	3.149	3.131	(0.458)	68607	5.00000	5
7 Acrolein	56	3.557	3.551	(0.518)	36136	25.0000	30
8 1,1-Dichloroethene	96	3.721	3.709	(0.541)	36117	5.00000	5
111 1,1,2-Trichlo-1,2,2-trifluoro	101	3.727	3.733	(0.542)	43611	5.00000	5
9 Acetone	43	3.721	3.715	(0.543)	22822	5.00000	6 (M) MI SB 8/11/03
10 Iodomethane	142	3.898	3.891	(0.567)	58218	5.00000	5
11 Carbon Disulfide	76	3.989	3.964	(0.580)	99121	5.00000	5
12 Acetonitrile	40	4.007	4.001	(0.583)	32712	50.0000	52
13 Allyl Chloride	76	3.989	3.964	(0.580)	220221	5.00000	5
20 2-Chloro-1,3-butadiene	53	5.060	5.053	(0.736)	79808	5.00000	5

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\030802.B\V6C8102.D
Report Date: 11-Aug-2003 16:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
112 Methyl Acetate	43	4.086	4.080	(0.595)	19286	5.00000	5
14 Methylene Chloride	84	4.250	4.244	(0.618)	41575	5.00000	5
15 Acrylonitrile	53	4.451	4.439	(0.648)	84309	25.0000	26
16 trans-1,2-Dichloroethene	96	4.500	4.500	(0.655)	35574	5.00000	5
17 Methyl tert-butyl ether	73	4.513	4.500	(0.657)	153619	5.00000	5
18 1,1-Dichloroethane	63	4.962	4.950	(0.722)	86472	5.00000	5
19 Vinyl acetate	43	4.999	4.992	(0.727)	77757	5.00000	5
22 2-Butanone	43	5.589	5.574	(0.813)	26387	5.00000	6 (T)
23 cis-1,2-Dichloroethene	96	5.589	5.582	(0.813)	52048	5.00000	5
24 2,2-Dichloropropane	77	5.595	5.588	(0.814)	49539	5.00000	6
25 Propionitrile	54	5.638	5.625	(0.820)	61820	50.0000	51
26 Methacrylonitrile	41	5.808	5.808	(0.845)	265295	50.0000	53
27 Bromochloromethane	128	5.838	5.838	(0.850)	23611	5.00000	5
29 Tetrahydrofuran	72	5.911	5.899	(0.860)	6010	5.00000	4 (a)
28 Chloroform	83	5.930	5.923	(0.863)	105595	5.00000	5
S 30 Dibromofluoromethane	113	6.100	6.093	(0.888)	51168	5.00000	5
31 1,1,1-Trichloroethane	97	6.149	6.142	(0.895)	70258	5.00000	5
113 Cyclohexane	56	6.234	6.223	(0.907)	94646	5.00000	5
32 1,1-Dichloropropene	110	6.331	6.325	(0.921)	21984	5.00000	5
33 Carbon Tetrachloride	117	6.343	6.343	(0.929)	61113	5.00000	5
34 Isobutyl Alcohol	43	6.422	6.404	(0.934)	39454	200.000	110
S 35 1,2-Dichloroethane-d4	102	6.483	6.477	(0.943)	8992	5.00000	4 (a)
37 Benzene	78	6.562	6.556	(0.955)	198847	5.00000	5
36 1,2-Dichloroethane	62	6.568	6.562	(0.956)	78280	5.00000	5
M 21 1,2-Dichloroethene (Total)	96				87622	10.0000	10
* 38 Fluorobenzene	96	6.872	6.866	(1.000)	2142878	50.0000	
39 Trichloroethene	130	7.298	7.292	(1.062)	48586	5.00000	5
114 Methylcyclohexane	83	7.548	7.541	(1.098)	106244	5.00000	5
40 1,2-Dichloropropane	63	7.542	7.541	(1.097)	59197	5.00000	5 (T)
41 Methyl Methacrylate	69	7.663	7.535	(1.115)	30900	5.00000	6 (T)
42 Dibromomethane	93	7.682	7.681	(1.118)	34284	5.00000	5
43 Bromodichloromethane	83	7.864	7.858	(1.144)	84762	5.00000	5
44 2-Chloroethyl vinyl ether	63	8.211	8.204	(1.195)	22881	5.00000	4 (a)
45 cis-1,3-Dichloropropene	75	8.406	8.399	(1.223)	92824	5.00000	5
46 4-Methyl-2-pentanone	43	8.582	8.569	(1.249)	40772	5.00000	5
S 47 Toluene-d8	98	8.746	8.746	(0.826)	192853	5.00000	5
48 Toluene	91	8.831	8.825	(1.285)	239815	5.00000	5
49 trans-1,3-Dichloropropene	75	9.081	9.074	(1.321)	87278	5.00000	5
50 Ethyl Methacrylate	69	9.196	9.184	(1.338)	54846	5.00000	4 (a)
51 1,1,2-Trichloroethane	97	9.318	9.312	(1.356)	54238	5.00000	5
53 Tetrachloroethene	164	9.537	9.537	(0.901)	42678	5.00000	5
52 1,3-Dichloropropane	76	9.537	9.531	(0.901)	92150	5.00000	5
54 2-Hexanone	43	9.634	9.622	(0.910)	25615	5.00000	5
55 Dibromochloromethane	129	9.823	9.829	(0.928)	53644	5.00000	5 (T)
56 1,2-Dibromoethane	107	9.939	9.987	(0.944)	50807	5.00000	5
115 1-Chlorohexane	91	10.596	10.589	(1.001)	85121	5.00000	5
* 57 Chlorobenzene-d5	117	10.589	10.589	(1.000)	1501820	50.0000	

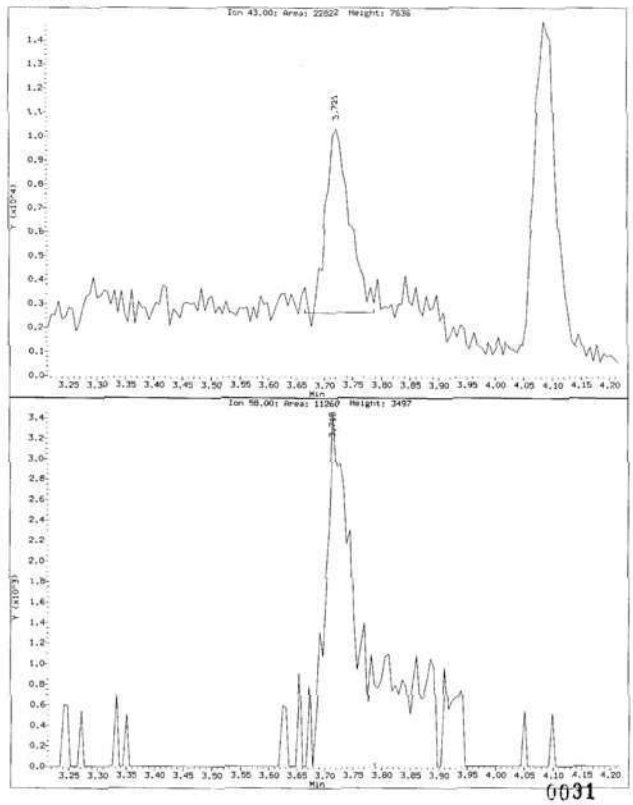
Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\030802.B\V6C8102.D
Report Date: 11-Aug-2003 16:51

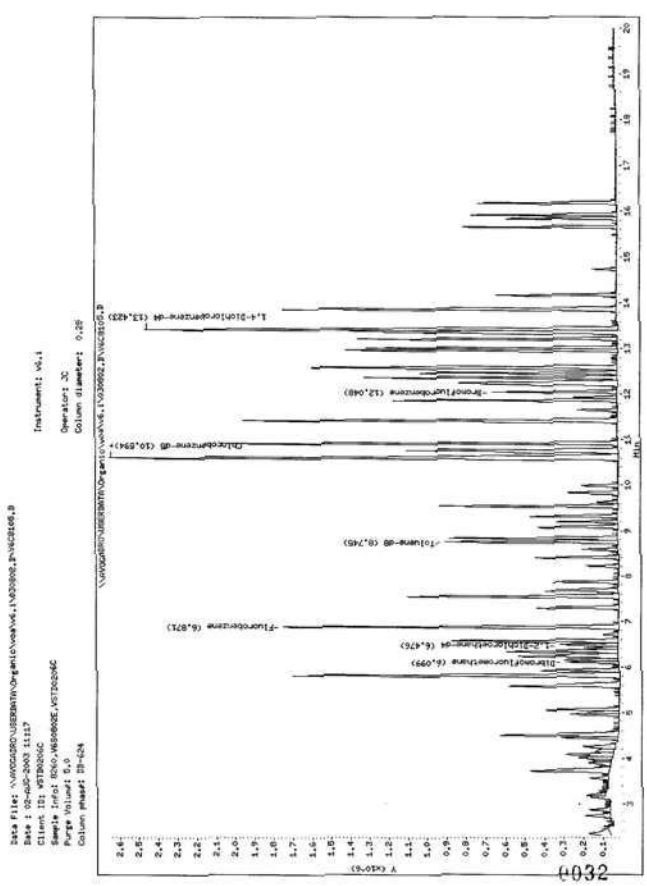
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	58 Chlorobenzene	112	10.626	10.626	(1.003)	172178	5.00000	5
	59 1,1,1,2-Tetrachloroethane	131	10.723	10.723	(1.013)	59044	5.00000	5
	60 Ethylbenzene	106	10.766	10.766	(1.017)	87597	5.00000	5
	61 m,p-Xylene	106	10.912	10.912	(1.030)	207181	10.0000	10
	62 o-Xylene	106	11.417	11.410	(1.078)	98275	5.00000	5
	64 Styrene	104	11.423	11.423	(1.079)	176288	5.00000	5
	65 Bromoform	173	11.654	11.648	(1.101)	32925	5.00000	5
	66 Isopropylbenzene	105	11.867	11.867	(1.121)	235163	5.00000	5
	67 trans-1,4-Dichloro-2-butene	75	11.934	11.921	(1.127)	16717	5.00000	4(a)
S	68 Bromofluorobenzene	95	12.050	12.049	(1.138)	69978	5.00000	4(a)
	69 1,1,2,2-Tetrachloroethane	83	12.202	12.207	(0.909)	72536	5.00000	5
	70 Bromobenzene	156	12.238	12.238	(0.912)	63245	5.00000	5
	71 1,2,3-Trichloropropane	75	12.262	12.262	(0.914)	85734	5.00000	5
	72 n-Propylbenzene	120	12.368	12.366	(0.921)	71080	5.00000	5
	73 2-Chlorotoluene	126	12.469	12.469	(0.929)	61405	5.00000	5
	74 1,3,5-Trimethylbenzene	105	12.573	12.572	(0.937)	211645	5.00000	5
	75 4-Chlorotoluene	126	12.597	12.597	(0.939)	66683	5.00000	5
M	63 Xylene (Total)	106				305456	15.0000	15
	76 tert-Butylbenzene	119	12.956	12.962	(0.966)	220163	5.00000	5
	77 1,2,4-Trimethylbenzene	105	13.019	13.010	(0.970)	218589	5.00000	5
	78 sec-Butylbenzene	105	13.218	13.217	(0.985)	275457	5.00000	5
	80 1,3-Dichlorobenzene	146	13.351	13.345	(0.995)	123574	5.00000	5
	79 4-Isopropyltoluene	119	13.345	13.345	(0.995)	255655	5.00000	5
*	81 1,4-Dichlorobenzene-d4	152	13.418	13.418	(1.000)	745317	50.0000	
	82 1,4-Dichlorobenzene	146	13.448	13.448	(1.002)	139780	5.00000	5
	83 n-Butylbenzene	91	13.650	13.650	(1.032)	214299	5.00000	5
	84 1,2-Dichlorobenzene	146	13.675	13.674	(1.034)	132184	5.00000	5
	85 Hexachloroethane	117	14.173	14.178	(1.056)	45120	5.00000	5
	86 1,2-Dibromo-3-chloropropane	75	14.737	14.738	(1.098)	32151	5.00000	5
	87 1,2,4-Trichlorobenzene	180	15.657	15.657	(1.167)	92339	5.00000	5
	88 Hexachlorobutadiene	225	15.848	15.843	(1.181)	93345	5.00000	5
	89 Naphthalene	128	15.919	15.918	(1.186)	184153	5.00000	5
	90 1,2,3-Trichlorobenzene	180	16.180	16.180	(1.206)	67910	5.00000	5

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

8/11/03





Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\030802.B\V6C8105.D
Report Date: 11-Aug-2003 16:51

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\030802.B\V6C8105.D
Lab Smp Id: V6S0802E Client Smp ID: VSTD0206C
Inj Date : 02-AUG-2003 11:17
Operator : JC Inst ID: v6.i
Smp Info : 8260,V6S0802E,VSTD0206C
Misc Info : ,1,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\030802.B\v68260.m
Meth Date : 08-Aug-2003 13:55 mtl Quant Type: ISTD
Cal Date : 02-AUG-2003 11:17 Cal File: V6C8105.D
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET8

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	1 Dichlorodifluoromethane	85	1.956	1.957	(0.285)	198535	20.0000	22
	116 Freon114	85	2.120	2.127	(0.309)	277369	20.0000	18
	2 Chloromethane	50	2.175	2.174	(0.317)	351346	20.0000	22
	3 Vinyl Chloride	62	2.327	2.322	(0.339)	351022	20.0000	22
	4 Bromomethane	94	2.722	2.717	(0.396)	185593	20.0000	22
	5 Chloroethane	64	2.856	2.851	(0.416)	190666	20.0000	21
	6 Trichlorofluoromethane	101	3.142	3.131	(0.457)	299426	20.0000	21
	7 Acrolein	56	3.556	3.551	(0.517)	121768	100.000	100
	8 1,1-Dichloroethene	96	3.714	3.709	(0.540)	113958	20.0000	21
	111 1,1,2-Trichlo-1,2,2-trifluoro	101	3.732	3.733	(0.543)	225215	20.0000	21
	9 Acetone	43	3.726	3.715	(0.542)	68803	20.0000	19
	10 Iodomethane	142	3.857	3.851	(0.5671	216088	20.0000	20
	11 Carbon Disulfide	76	3.970	3.964	(0.578)	419319	20.0000	19
	12 Acetonitrile	40	4.012	4.001	(0.584)	150113	200.000	240
	13 Allyl Chloride	76	3.970	3.964	(0.578)	651426	20.0000	20
	20 2-Chloro-1,3-Butadiene	53	5.064	5.053	(0.737)	312097	20.0000	20

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\030802.B\V6C8105.D
Report Date: 11-Aug-2003 16:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	112 Methyl Acetate	43	4.085	4.080	(0.595)	151392	20.0000	20
	14 Methylene Chloride	84	4.255	4.244	(0.619)	173900	20.0000	21
	15 Acrylonitrile	53	4.444	4.439	(0.647)	324218	100.000	99
	16 trans-1,2-Dichloroethene	96	4.511	4.500	(0.656)	145922	20.0000	21
	17 Methyl tert-butyl ether	73	4.505	4.500	(0.656)	607142	20.0000	20
	18 1,1-Dichloroethane	63	4.955	4.950	(0.721)	344384	20.0000	21
	19 Vinyl acetate	43	5.004	4.995	(0.728)	278764	20.0000	18
	22 2-Butanone	43	5.582	5.576	(0.812)	84244	20.0000	19
	23 cis-1,2-Dichloroethene	96	5.582	5.582	(0.812)	201819	20.0000	20
	24 2,2-Dichloropropane	77	5.588	5.588	(0.813)	187298	20.0000	21
	25 Propionitrile	54	5.630	5.625	(0.819)	248596	200.000	200
	26 Methacrylonitrile	41	5.813	5.808	(0.846)	1049595	100.000	210
	27 Bromochloromethane	128	5.849	5.838	(0.851)	92514	20.0000	20
	28 Tetrahydrofuran	72	5.904	5.899	(0.859)	27503	20.0000	20
	29 Chloroform	83	5.928	5.923	(0.863)	403839	20.0000	20
$	30 Dibromofluoromethane	113	6.099	6.093	(0.888)	224587	20.0000	21
	31 1,1,1-Trichloroethane	97	6.154	6.143	(0.896)	276005	20.0000	20
	113 Cyclohexane	56	6.233	6.233	(0.907)	399029	20.0000	20
	32 1,1-Dichloropropene	110	6.330	6.329	(0.921)	80860	20.0000	19
	33 Carbon Tetrachloride	117	6.342	6.343	(0.923)	236022	20.0000	20
	34 Isobutyl Alcohol	43	6.415	6.404	(0.934)	146412	400.000	400
$	35 1,2-Dichloroethane-d4	102	6.482	6.477	(0.943)	58408	20.0000	22
	37 Benzene	78	6.567	6.556	(0.954)	777432	20.0000	20
	36 1,2-Dichloroethane	62	6.567	6.562	(0.954)	294583	20.0000	21
M	21 1,2-Dichloroethene (Total)	96				347761	40.0000	41
*	38 Fluorobenzene	96	6.871	6.866	(1.000)	2190143	50.0000	
	39 Trichloroethene	130	7.297	7.292	(1.062)	197825	20.0000	20
	114 Methylcyclohexane	83	7.540	7.541	(1.097)	430486	20.0000	20
	40 1,2-Dichloropropane	63	7.553	7.541	(1.099)	234574	20.0000	20
	41 Methyl Methacrylate	69	7.662	7.535	(1.115)	136322	20.0000	25(T)
	42 Dibromomethane	93	7.680	7.681	(1.118)	137851	20.0000	20
	43 Bromodichloromethane	83	7.863	7.858	(1.144)	328588	20.0000	20
	44 2-Chloroethyl vinyl ether	63	8.210	8.204	(1.195)	106028	20.0000	19
	45 cis-1,3-Dichloropropene	75	8.404	8.399	(1.223)	382329	20.0000	20
	46 4-Methyl-2-pentanone	43	8.575	8.569	(1.248)	164549	20.0000	20
$	47 Toluene-d8	98	8.751	8.746	(0.826)	882915	20.0000	22
	48 Toluene	91	8.830	8.825	(1.285)	959636	20.0000	21
	49 trans-1,3-Dichloropropene	75	9.086	9.074	(1.322)	360083	20.0000	20
	50 Ethyl Methacrylate	69	9.189	9.184	(1.337)	248109	20.0000	19
	51 1,1,2-Trichloroethane	97	9.317	9.312	(1.356)	215478	20.0000	20
	53 Tetrachloroethene	164	9.536	9.537	(0.900)	170490	20.0000	20
	52 1,3-Dichloropropane	76	9.536	9.531	(0.900)	375303	20.0000	20
	54 2-Hexanone	43	9.627	9.622	(0.909)	108667	20.0000	19
	55 Dibromochloromethane	129	9.834	9.829	(0.928)	209245	20.0000	19
	56 1,2-Dibromoethane	107	9.986	9.987	(0.943)	203091	20.0000	20
	115 1-Chlorohexane	91	10.588	10.589	(0.999)	347062	20.0000	19
*	57 Chlorobenzene-d5	117	10.594	10.589	(1.000)	1570858	50.0000	

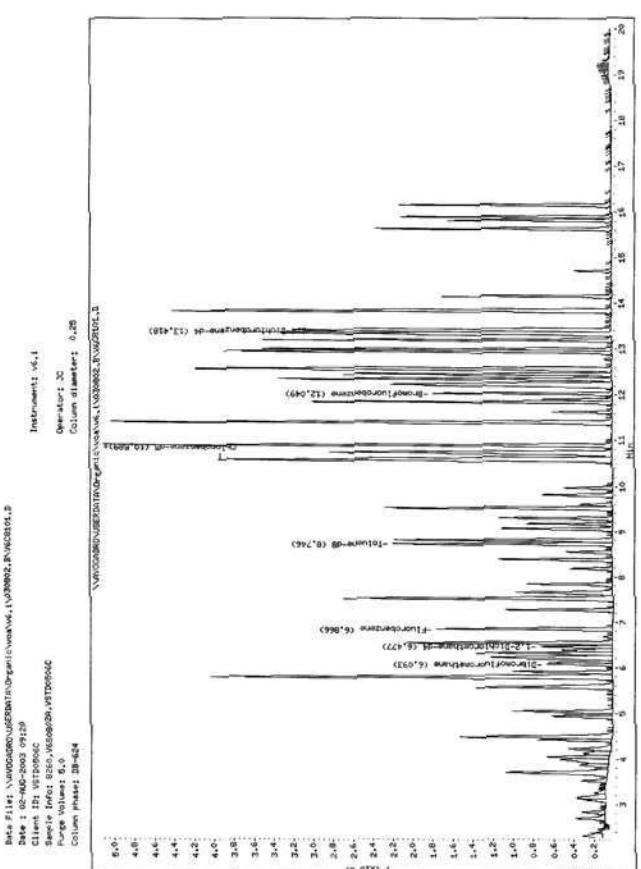
Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\030802.B\V6C8105.D
Report Date: 11-Aug-2003 16:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	58 Chlorobenzene	112	10.631	10.626	(1.003)	675713	20.0000	20
	59 1,1,1,2-Tetrachloroethane	131	10.728	10.723	(1.013)	226817	20.0000	20
	60 Ethylbenzene	106	10.765	10.766	(1.016)	352981	20.0000	20
	61 m,p-Xylene	106	10.917	10.912	(1.030)	895815	40.0000	42
	62 o-Xylene	106	11.410	11.410	(1.077)	430897	20.0000	20
	64 Styrene	104	11.428	11.423	(1.079)	764071	20.0000	21
	65 Bromoform	173	11.647	11.648	(1.099)	141104	20.0000	19
	66 Isopropylbenzene	105	11.866	11.867	(1.120)	1043318	20.0000	21
	67 trans-1,4-Dichloro-2-butene	75	11.927	11.921	(1.126)	77853	20.0000	18
$	68 Bromofluorobenzene	95	12.054	12.049	(1.138)	337149	20.0000	20
	69 1,1,2,2-Tetrachloroethane	83	12.207	12.207	(0.909)	294766	20.0000	20
	70 Bromobenzene	156	12.237	12.238	(0.912)	263348	20.0000	20
	71 1,2,3-Trichloropropane	75	12.261	12.262	(0.913)	351514	20.0000	20
	72 n-Propylbenzene	120	12.365	12.366	(0.921)	316096	20.0000	20
	73 2-Chlorotoluene	126	12.468	12.469	(0.929)	264860	20.0000	20
	74 1,3,5-Trimethylbenzene	105	12.572	12.572	(0.937)	919750	20.0000	21
	75 4-Chlorotoluene	126	12.596	12.597	(0.938)	284908	20.0000	20
M	63 Xylene (Total)	106				1326712	60.0000	62
	76 tert-Butylbenzene	119	12.961	12.962	(0.966)	974842	20.0000	20
	77 1,2,4-Trimethylbenzene	105	13.016	13.010	(0.970)	969936	20.0000	21
	78 sec-Butylbenzene	105	13.216	13.227	(0.985)	1303129	20.0000	21
	80 1,3-Dichlorobenzene	146	13.350	13.345	(0.995)	524926	20.0000	21
	79 4-Isopropyltoluene	119	13.381	13.381	(0.997)	947923	20.0000	21
*	81 1,4-Dichlorobenzene-d4	152	13.423	13.418	(1.000)	821053	50.0000	
	82 1,4-Dichlorobenzene	146	13.448	13.448	(1.002)	542544	20.0000	20
	83 n-Butylbenzene	91	13.849	13.850	(1.032)	1004385	20.0000	22
	84 1,2-Dichlorobenzene	146	13.873	13.874	(1.034)	508202	20.0000	21
	85 Hexachloroethane	117	14.171	14.178	(1.056)	179555	20.0000	19
	86 1,2-Dibromo-3-chloropropane	75	14.737	14.738	(1.098)	50886	20.0000	19
	87 1,2,4-Trichlorobenzene	180	15.656	15.657	(1.166)	320580	20.0000	19
	88 Hexachlorobutadiene	225	15.838	15.845	(1.180)	136017	20.0000	18
	89 Naphthalene	128	15.917	15.918	(1.186)	767692	20.0000	20
	90 1,2,3-Trichlorobenzene	180	16.179	16.180	(1.205)	292744	20.0000	19

QC Flag Legend

T - Target compound detected outside RT window.

SB 8/11/03



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\030802.B\V6C8101.D
Report Date: 11-Aug-2003 16:51

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\030802.B\V6C8101.D
Lab Smp Id: V6S0802A Client Smp ID: VSTD0506C
Inj Date : 02-AUG-2003 09:28
Operator : JC Inst ID: v6.i
Smp Info : 8260,V6S0802A,VSTD0506C
Misc Info : ,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\030802.B\v68260.m
Meth Date : 08-Aug-2003 13:55 mtl Quant Type: ISTD
Cal Date : 02-AUG-2003 09:28 Cal File: V6C8101.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET8

Concentration Formula: Amt * DF * Uf * S/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	1 Dichlorodifluoromethane	85	1.957	1.957	(0.285)	423708	50.0000	46
	116 Freon114	85	2.127	2.127	(0.310)	635303	50.0000	47
	2 Chloromethane	50	2.176	2.176	(0.317)	713308	50.0000	44
	3 Vinyl Chloride	62	2.322	2.322	(0.338)	767048	50.0000	47
	4 Bromomethane	94	2.717	2.717	(0.396)	419365	50.0000	48
	5 Chloroethane	64	2.851	2.851	(0.415)	450215	50.0000	48
	6 Trichlorofluoromethane	101	3.131	3.131	(0.456)	747944	50.0000	51
	7 Acrolein	56	3.551	3.551	(0.517)	324095	250.000	270
	8 1,1-Dichloroethene	96	3.709	3.709	(0.540)	281909	50.0000	52
	111 1,1,2-Trichlo-1,2,2-trifluoro	101	3.733	3.733	(0.544)	562165	50.0000	51
	9 Acetone	43	3.715	3.725	(0.541)	284083	50.0000	62
	10 Iodomethane	142	3.891	3.891	(0.567)	680494	50.0000	51
	11 Carbon Disulfide	76	3.964	3.964	(0.577)	1142464	50.0000	52
	12 Acetonitrile	40	4.001	4.001	(0.583)	334158	500.000	510
	13 Allyl Chloride	76	3.964	3.964	(0.577)	2131361	50.0000	50
	26 2-Chloro-1,3-Butadiene	53	5.053	5.053	(0.736)	801555	50.0000	53

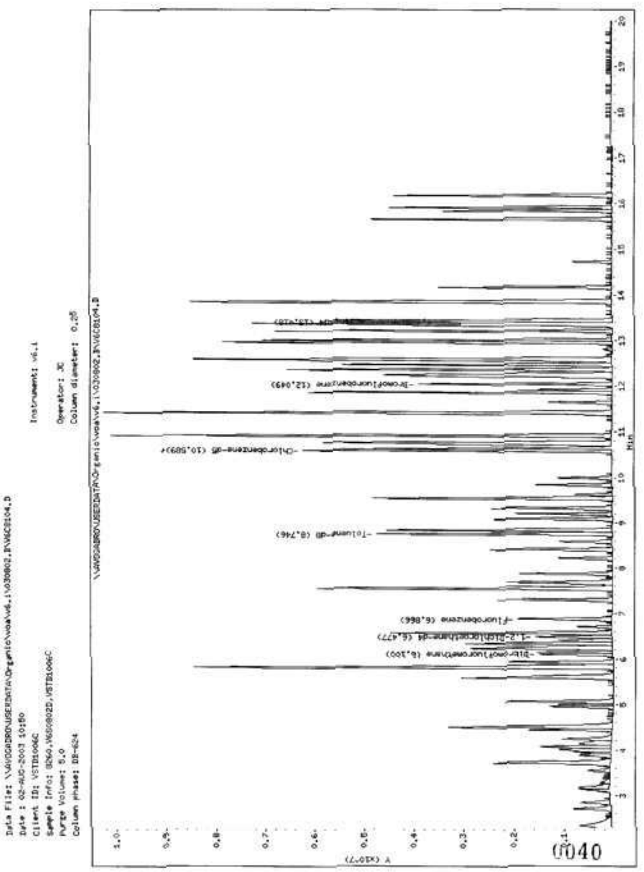
Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\030802.B\V6C8101.D
Report Date: 11-Aug-2003 16:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
112 Methyl Acetate	43	4.080	4.080	(0.594)	364658	50.0000	48
14 Methylene Chloride	84	4.244	4.244	(0.618)	414865	50.0000	50
15 Acrylonitrile	53	4.435	4.435	(0.646)	826055	250.000	255
16 trans-1,2-Dichloroethene	96	4.500	4.500	(0.655)	352137	50.0000	49
17 Methyl tert-butyl ether	73	4.500	4.500	(0.655)	1496247	50.0000	49
18 1,1-Dichloroethane	63	4.950	4.950	(0.721)	823409	50.0000	49
19 Vinyl acetate	43	4.992	4.992	(0.727)	818795	50.0000	51
22 2-Butanone	43	5.576	5.576	(0.812)	219050	50.0000	47
23 cis-1,2-Dichloroethene	96	5.582	5.582	(0.813)	508161	50.0000	50
24 2,2-Dichloropropane	77	5.588	5.588	(0.814)	411921	50.0000	45
25 Propionitrile	54	5.625	5.625	(0.819)	626295	500.000	500
26 Methacrylonitrile	41	5.808	5.808	(0.846)	2644180	500.000	510
27 Bromochloromethane	128	5.838	5.838	(0.850)	240758	50.0000	51
29 Tetrahydrofuran	72	5.899	5.899	(0.859)	71306	50.0000	52
28 Chloroform	83	5.923	5.923	(0.863)	974765	50.0000	49
$ 30 Dibromofluoromethane	113	6.095	6.095	(0.887)	547148	50.0000	50
31 1,1,1-Trichloroethane	97	6.142	6.142	(0.895)	673376	50.0000	48
113 Cyclohexane	56	6.233	6.233	(0.908)	1014101	50.0000	49
32 1,1-Dichloropropene	110	6.325	6.325	(0.921)	212021	50.0000	50
33 Carbon Tetrachloride	117	6.343	6.343	(0.924)	597496	50.0000	50
34 Isobutyl Alcohol	43	6.404	6.404	(0.933)	363278	1000.00	970
$ 35 1,2-Dichloroethane-d4	102	6.477	6.477	(0.943)	116036	50.0000	52
37 Benzene	78	6.556	6.556	(0.955)	1916890	50.0000	49
36 1,2-Dichloroethane	62	6.562	6.562	(0.956)	711895	50.0000	49
M 21 1,2-Dichloroethene (Total)	96				860298	100.000	99
* 38 Fluorobenzene	96	6.866	6.866	(1.000)	2224934	50.0000	
39 Trichloroethene	130	7.292	7.292	(1.062)	501498	50.0000	50
114 Methylcyclohexane	83	7.541	7.541	(1.098)	1122074	50.0000	50
40 1,2-Dichloropropane	63	7.541	7.541	(1.098)	577743	50.0000	49
41 Methyl Methacrylate	69	7.535	7.535	(1.097)	228624	50.0000	42
42 Dibromomethane	93	7.681	7.681	(1.119)	337646	50.0000	49
43 Bromodichloromethane	83	7.858	7.858	(1.144)	821789	50.0000	49
44 2-Chloroethyl vinyl ether	63	8.204	8.204	(1.195)	256324	50.0000	45
45 cis-1,3-Dichloropropene	75	8.399	8.399	(1.223)	985244	50.0000	50
46 4-Methyl-2-pentanone	43	8.569	8.569	(1.248)	419278	50.0000	49
$ 47 Toluene-d8	98	8.746	8.746	(0.826)	2132534	50.0000	50
48 Toluene	91	8.825	8.825	(1.285)	2367778	50.0000	51
49 trans-1,3-Dichloropropene	75	9.074	9.074	(1.322)	940998	50.0000	50
50 Ethyl Methacrylate	69	9.184	9.184	(1.338)	652580	50.0000	50
51 1,1,2-Trichloroethane	97	9.312	9.312	(1.356)	521847	50.0000	48
53 Tetrachloroethene	164	9.537	9.537	(0.901)	431010	50.0000	48
52 1,3-Dichloropropane	76	9.531	9.531	(0.900)	937674	50.0000	48
54 2-Hexanone	43	9.622	9.622	(0.909)	294418	50.0000	50
55 Dibromochloromethane	129	9.829	9.829	(0.928)	564986	50.0000	49
56 1,2-Dibromoethane	107	9.987	9.987	(0.943)	524472	50.0000	49
115 1-Chlorohexane	91	10.589	10.589	(1.000)	937974	50.0000	50
* 57 Chlorobenzene-d5	117	10.589	10.589	(1.000)	1646602	50.0000	

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\030802.B\V6C8101.D
Report Date: 11-Aug-2003 16:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
58 Chlorobenzene	112	10.626	10.626	(1.001)	1697928	50.0000	49
59 1,1,1,2-Tetrachloroethane	131	10.723	10.723	(1.013)	569884	50.0000	48
60 Ethylbenzene	106	10.766	10.766	(1.017)	935040	50.0000	50
61 m,p-Xylene	106	10.912	10.912	(1.030)	2286576	100.000	100
62 o-Xylene	106	11.410	11.410	(1.078)	1154514	50.0000	51
64 Styrene	104	11.423	11.423	(1.079)	1982666	50.0000	53
65 Bromoform	173	11.648	11.648	(1.100)	400640	50.0000	52
66 Isopropylbenzene	105	11.867	11.867	(1.121)	2762498	50.0000	53
67 trans-1,4-Dichloro-2-butene	75	11.921	11.921	(1.126)	245273	50.0000	55
$ 68 Bromofluorobenzene	95	12.049	12.049	(1.138)	900207	50.0000	51
69 1,1,2,2-Tetrachloroethane	83	12.207	12.207	(0.910)	758665	50.0000	47
70 Bromobenzene	156	12.238	12.238	(0.912)	687526	50.0000	48
71 1,2,3-Trichloropropane	75	12.262	12.262	(0.914)	949397	50.0000	48
72 n-Propylbenzene	120	12.366	12.366	(0.922)	865627	50.0000	49
73 2-Chlorotoluene	126	12.469	12.469	(0.929)	727197	50.0000	49
74 1,3,5-Trimethylbenzene	105	12.572	12.572	(0.937)	2417461	50.0000	50
75 4-Chlorotoluene	126	12.597	12.597	(0.939)	756108	50.0000	49
M 63 Xylene (Total)	106				3441090	150.000	150
76 tert-Butylbenzene	119	12.962	12.962	(0.966)	2684346	50.0000	51
77 1,2,4-Trimethylbenzene	105	13.010	13.010	(0.970)	2520202	50.0000	50
78 sec-Butylbenzene	105	13.217	13.217	(0.985)	3230859	50.0000	51
80 1,3-Dichlorobenzene	146	13.345	13.345	(0.995)	1398191	50.0000	50
79 4-Isopropyltoluene	119	13.381	13.381	(0.997)	2610754	50.0000	52
* 81 1,4-Dichlorobenzene-d4	152	13.418	13.418	(1.000)	911375	50.0000	
82 1,4-Dichlorobenzene	146	13.448	13.448	(1.002)	1432889	50.0000	49
83 n-Butylbenzene	91	13.850	13.850	(1.032)	2682684	50.0000	52
84 1,2-Dichlorobenzene	146	13.874	13.874	(1.034)	1355276	50.0000	50
85 Hexachloroethane	117	14.178	14.178	(1.057)	509984	50.0000	49
86 1,2-Dibromo-3-chloropropane	75	14.738	14.738	(1.098)	144106	50.0000	49
87 1,2,4-Trichlorobenzene	180	15.657	15.657	(1.167)	948780	50.0000	51
88 Hexachlorobutadiene	225	15.845	15.845	(1.181)	395353	50.0000	49
89 Naphthalene	128	15.918	15.918	(1.186)	2184332	50.0000	50
90 1,2,3-Trichlorobenzene	180	16.180	16.180	(1.206)	870669	50.0000	51

SB 8/11/03



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\030802.B\V6C8104.D
Report Date: 11-Aug-2003 16:51

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\030802.B\V6C8104.D
Lab Smp Id: V6S0802D Client Smp ID: VSTD1006C
Inj Date : 02-AUG-2003 10:50
Operator : JC Inst ID: v6.i
Smp Info : 8260,V6S0802D,VSTD1006C
Misc Info : ,1,4
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\030802.B\v68260.m
Meth Date : 08-Aug-2003 13:55 mtl Quant Type: ISTD
Cal Date : 02-AUG-2003 09:28 Cal File: V6C8101.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET8

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.957	1.957	(0.285)	1005712	100.000	100
116 Freon114	85	2.121	2.127	(0.309)	1451966	100.000	90
2 Chloromethane	50	2.170	2.176	(0.316)	1850796	100.000	100
3 Vinyl Chloride	62	2.328	2.322	(0.339)	1816434	100.000	100
4 Bromomethane	94	2.711	2.717	(0.395)	905841	100.000	95
5 Chloroethane	64	2.845	2.851	(0.414)	991323	100.000	98
6 Trichlorofluoromethane	101	3.131	3.131	(0.456)	1604829	100.000	100
7 Acrolein	56	3.545	3.551	(0.516)	600493	500.000	450
8 1,1-Dichloroethene	96	3.715	3.709	(0.541)	588805	100.000	99
111 1,1,2-Trichlo-1,2,2-trifluoro	101	3.727	3.733	(0.543)	1218700	100.000	100
9 Acetone	43	3.715	3.715	(0.541)	320810	100.000	69
10 Iodomethane	142	3.892	3.891	(0.567)	1290817	100.000	100
11 Carbon Disulfide	76	3.958	3.964	(0.577)	2474094	100.000	100
12 Acetonitrile	40	4.007	4.001	(0.584)	670660	1000.00	1100
13 Allyl Chloride	76	3.958	3.964	(0.577)	4574567	100.000	99
20 2-Chloro-1,3-Butadiene	53	5.060	5.053	(0.737)	1759289	100.000	100

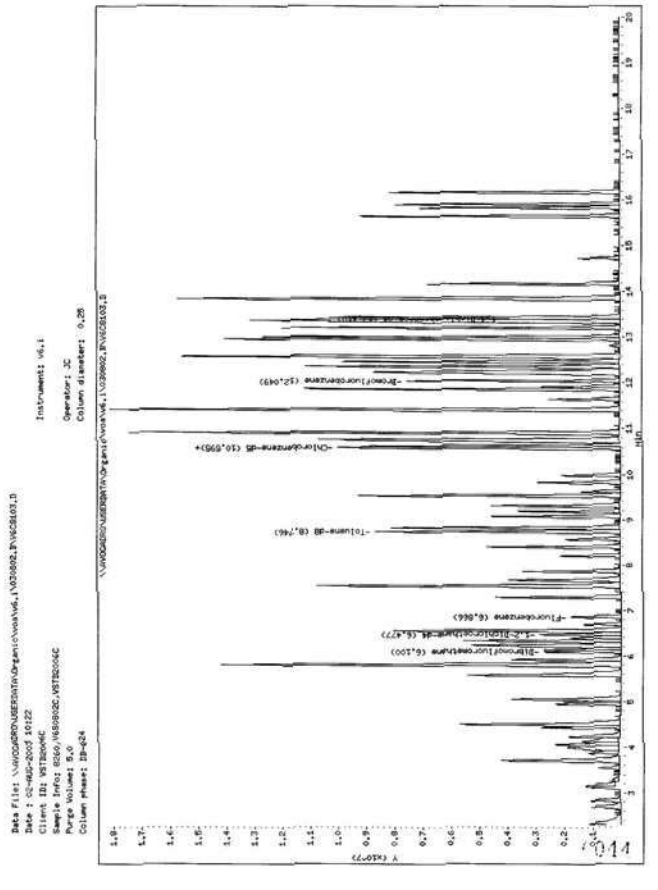
Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\030802.B\V6C8104.D
Report Date: 11-Aug-2003 16:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
112 Methyl Acetate	43	4.080	4.080	(0.594)	827765	100.000	100
14 Methylene Chloride	84	4.244	4.244	(0.618)	894904	100.000	99
15 Acrylonitrile	53	4.439	4.439	(0.646)	1849958	500.000	510
16 trans-1,2-Dichloroethene	96	4.506	4.500	(0.656)	758236	100.000	98
17 Methyl tert-butyl ether	73	4.506	4.500	(0.656)	3312494	100.000	100
18 1,1-Dichloroethane	63	4.950	4.950	(0.721)	1789823	100.000	98
19 Vinyl acetate	43	4.993	4.992	(0.727)	1838668	100.000	110
22 2-Butanone	43	5.577	5.576	(0.812)	453149	100.000	94
23 cis-1,2-Dichloroethene	96	5.583	5.582	(0.813)	1083417	100.000	98
24 2,2-Dichloropropane	77	5.589	5.588	(0.814)	993324	100.000	100
25 Propionitrile	54	5.631	5.625	(0.820)	1385540	1000.00	1000
26 Methacrylonitrile	41	5.808	5.808	(0.846)	5458021	1000.00	980
27 Bromochloromethane	128	5.844	5.838	(0.851)	501549	100.000	98
29 Tetrahydrofuran	72	5.911	5.899	(0.861)	155433	100.000	100
28 Chloroform	83	5.923	5.923	(0.863)	2101604	100.000	97
S 30 Dibromofluoromethane	113	6.100	6.093	(0.888)	1206524	100.000	100
31 1,1,1-Trichloroethane	97	6.149	6.143	(0.895)	1482598	100.000	98
113 Cyclohexane	56	6.234	6.233	(0.908)	2310140	100.000	100
32 1,1-Dichloropropene	110	6.331	6.325	(0.922)	452923	100.000	98
33 Carbon Tetrachloride	117	6.343	6.343	(0.924)	1268348	100.000	97
34 Isobutyl Alcohol	43	6.410	6.404	(0.934)	832444	2000.00	2000
S 35 1,2-Dichloroethane-d4	102	6.483	6.477	(0.944)	1021157	100.000	110
37 Benzene	78	6.562	6.556	(0.956)	4116812	100.000	98
36 1,2-Dichloroethane	62	6.562	6.562	(0.956)	1494917	100.000	95
M 21 1,2-Dichloroethane (Total)	96				1841654	200.000	200
* 38 Fluorobenzene	96	6.866	6.866	(1.000)	3411254	50.0000	
39 Trichloroethene	130	7.298	7.292	(1.063)	1063559	100.000	98
114 Methylcyclohexane	83	7.542	7.541	(1.098)	2459438	100.000	100
40 1,2-Dichloropropane	63	7.548	7.541	(1.099)	1297330	100.000	99
41 Methyl Methacrylate	69	7.542	7.535	(1.098)	501929	100.000	85
42 Dibromomethane	93	7.682	7.681	(1.119)	738968	100.000	99
43 Bromodichloromethane	83	7.864	7.858	(1.145)	1788135	100.000	99
44 2-Chloroethyl vinyl ether	63	8.205	8.204	(1.195)	705411	100.000	120
45 cis-1,3-Dichloropropene	75	8.399	8.399	(1.223)	2182250	100.000	100
46 4-Methyl-2-pentanone	43	8.559	8.559	(1.249)	975047	100.000	100
S 47 Toluene-d8	98	8.746	8.746	(0.826)	4586936	100.000	100
48 Toluene	91	8.831	8.825	(1.286)	4918422	100.000	97
49 trans-1,3-Dichloropropene	75	9.081	9.074	(1.322)	2064632	100.000	100
50 Ethyl Methacrylate	69	9.190	9.184	(1.338)	1556254	100.000	110
51 1,1,2-Trichloroethane	97	9.312	9.312	(1.356)	1176267	100.000	100
53 Tetrachloroethene	164	9.537	9.537	(0.901)	953034	100.000	100
52 1,3-Dichloropropane	76	9.531	9.531	(0.900)	2118168	100.000	100
54 2-Hexanone	43	9.622	9.622	(0.909)	685940	100.000	110
55 Dibromochloromethane	129	9.829	9.829	(0.928)	1237662	100.000	100
56 1,2-Dibromoethane	107	9.987	9.987	(0.943)	1154272	100.000	100
115 1-Chlorohexane	91	10.589	10.589	(1.000)	2034605	100.000	100
* 57 Chlorobenzene-d5	117	10.589	10.589	(1.000)	1757241	50.0000	

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\030802.B\V6C8104.D
Report Date: 11-Aug-2003 16:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
58 Chlorobenzene	112	10.626	10.626	(1.001)	3577255	100.000	97
59 1,1,1,2-Tetrachloroethane	131	10.723	10.723	(1.011)	1230662	100.000	97
60 Ethylbenzene	106	10.766	10.766	(1.017)	1997703	100.000	100
61 m,p-Xylene	106	10.912	10.912	(1.030)	4773928	200.000	200
62 o-Xylene	106	11.411	11.410	(1.078)	2477595	100.000	100
64 Styrene	104	11.423	11.423	(1.079)	4086427	100.000	100
65 Bromoform	173	11.648	11.648	(1.100)	850744	100.000	100
66 Isopropylbenzene	105	11.861	11.867	(1.120)	5601695	100.000	100
67 trans-1,4-Dichloro-2-butene	75	11.922	11.921	(1.126)	518269	100.000	110
S 68 Bromofluorobenzene	95	12.049	12.049	(1.138)	1966470	100.000	100
69 1,1,2,2-Tetrachloroethane	83	12.208	12.207	(0.910)	1665462	100.000	100
70 Bromobenzene	156	12.238	12.238	(0.912)	1442503	100.000	97
71 1,2,3-Trichloropropane	75	12.262	12.262	(0.914)	2021272	100.000	100
72 n-Propylbenzene	120	12.366	12.366	(0.922)	1839253	100.000	100
73 2-Chlorotoluene	126	12.469	12.469	(0.929)	1513702	100.000	99
74 1,3,5-Trimethylbenzene	105	12.573	12.572	(0.937)	4836260	100.000	97
75 4-Chlorotoluene	126	12.597	12.597	(0.939)	1557865	100.000	97
M 63 Xylene (Total)	106				7251524	300.000	300
76 tert-Butylbenzene	119	12.962	12.962	(0.966)	5437450	100.000	100
77 1,2,4-Trimethylbenzene	105	13.011	13.010	(0.970)	4995421	100.000	97
78 sec-Butylbenzene	105	13.218	13.217	(0.985)	6357908	100.000	97
80 1,3-Dichlorobenzene	146	13.345	13.345	(0.995)	2800174	100.000	96
79 4-Isopropyltoluene	119	13.382	13.381	(0.997)	5093077	100.000	98
* 85 1,4-Dichlorobenzene-d4	152	13.415	13.415	(1.000)	5457754	50.0000	
82 1,4-Dichlorobenzene	146	13.449	13.448	(1.002)	2830065	100.000	93
83 n-Butylbenzene	91	13.850	13.850	(1.032)	5136977	100.000	97
84 1,2-Dichlorobenzene	146	13.875	13.874	(1.034)	2710431	100.000	96
85 Hexachloroethane	117	14.179	14.178	(1.057)	1060396	100.000	99
86 1,2-Dibromo-3-chloropropane	75	14.732	14.738	(1.098)	312277	100.000	100
87 1,2,4-Trichlorobenzene	180	15.657	15.657	(1.167)	1999127	100.000	100
88 Hexachlorobutadiene	225	15.839	15.845	(1.180)	852919	100.000	100
89 Naphthalene	128	15.919	15.918	(1.186)	4633184	100.000	100
90 1,2,3-Trichlorobenzene	180	16.180	16.180	(1.206)	1824508	100.000	100

8/11/03



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\030802.B\V6C8103.D
Report Date: 11-Aug-2003 16:51

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\030802.B\V6C8103.D
Lab Smp Id: V6S0802C Client Smp ID: VSTD2006C
Inj Date : 02-AUG-2003 10:22
Operator : JC Inst ID: v6.i
Smp Info : 8260,V6S0802C,VSTD2006C
Misc Info : ,1,5
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\030802.B\v68260.m
Meth Date : 08-Aug-2003 13:55 mtl Quant Type: ISTD
Cal Date : 02-AUG-2003 09:28 Cal File: V6C8101.D
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.03
Processing Host: TARGET8

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.951	1.957	(0.284)	1683497	200.000	180
116 Freon114	85	2.121	2.127	(0.309)	2319024	200.000	140
2 Chloromethane	50	2.176	2.176	(0.317)	2876757	200.000	170
3 Vinyl Chloride	62	2.328	2.322	(0.338)	2925771	200.000	170
4 Bromomethane	94	2.699	2.717	(0.393)	1526493	200.000	170
5 Chloroethane	64	2.839	2.851	(0.413)	1729984	200.000	180
6 Trichlorofluoromethane	101	3.133	3.133	(0.456)	2789780	200.000	190
7 Acrolein	56	3.545	3.551	(0.516)	975624	1000.00	900
8 1,1-Dichloroethene	96	3.709	3.709	(0.540)	1030751	200.000	180
111 1,1,2-Trichlo-1,2,2-trifluoro	101	3.721	3.733	(0.542)	2137963	200.000	180
9 Acetone	43	3.709	3.715	(0.540)	554321	200.000	110
10 Iodomethane	142	3.885	3.891	(0.566)	2286910	200.000	190
11 Carbon Disulfide	76	3.964	3.964	(0.577)	4673753	200.000	210(A)
12 Acetonitrile	40	4.007	4.001	(0.584)	1159854	1000.00	2100(A)
13 Allyl Chloride	76	3.964	3.964	(0.577)	8189930	200.000	190(T)
20 2-Chloro-1,3-Butadiene	53	5.053	5.053	(0.736)	3206573	200.000	200

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\030802.B\V6C8103.D
Report Date: 11-Aug-2003 16:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
112	Methyl Acetate	43	4.080	4.080	(0.534)	1384690	200.000	180
14	Methylene Chloride	84	4.238	4.244	(0.617)	1583320	200.000	180
15	Acrylonitrile	53	4.439	4.439	(0.646)	3140080	1000.00	930
16	trans-1,2-Dichloroethene	96	4.506	4.500	(0.656)	1395616	200.000	190
17	Methyl tert-butyl ether	73	4.500	4.500	(0.655)	5761645	200.000	190
18	1,1-Dichloroethane	63	4.950	4.950	(0.721)	3187295	200.000	180
19	Vinyl acetate	43	4.992	4.992	(0.727)	3331366	200.000	200(A)
22	2-Butanone	43	5.576	5.576	(0.812)	782334	200.000	170
23	cis-1,2-Dichloroethene	96	5.582	5.582	(0.813)	3004709	200.000	190
24	2,2-Dichloropropane	77	5.582	5.582	(0.813)	1786820	200.000	190
25	Propionitrile	54	5.625	5.625	(0.819)	2399746	2000.00	1900
26	Methacrylonitrile	41	5.808	5.808	(0.846)	9096955	2000.00	1700
27	Bromochloromethane	128	5.838	5.838	(0.850)	907749	200.000	190
29	Tetrahydrofuran	72	5.905	5.895	(0.860)	282272	200.000	200
28	Chloroform	83	5.923	5.923	(0.863)	3840068	200.000	190
S 30	Dibromofluoromethane	113	6.100	6.093	(0.888)	2244679	200.000	200
31	1,1,1-Trichloroethane	97	*6.148*	*6.142*	(0.895)	2774348	200.000	200
113	Cyclohexane	56	6.233	6.233	(0.908)	4338197	200.000	210(A)
32	1,1-Dichloropropene	110	6.331	6.325	(0.922)	864250	200.000	200
33	Carbon Tetrachloride	117	6.343	6.343	(0.924)	2434308	200.000	200
34	Isobutyl Alcohol	43	6.410	6.404	(0.934)	1387045	4000.00	3600
S 35	1,2-Dichloroethane-d4	102	6.477	6.477	(0.943)	569193	200.000	210(A)
37	Benzene	78	6.562	6.556	(0.956)	7493748	200.000	190
36	1,2-Dichloroethane	62	6.562	6.562	(0.956)	2764445	200.000	190
M 21	1,2-Dichloroethene (Total)	96				3400325	400.000	380
* 38	Fluorobenzene	96	6.866	6.866	(1.000)	2270740	50.0000	
39	Trichloroethene	130	7.292	7.292	(1.062)	2026555	200.000	200
114	Methylcyclohexane	83	7.535	7.541	(1.097)	4701259	200.000	210(A)
40	1,2-Dichloropropane	63	7.547	7.541	(1.099)	2383806	200.000	200
41	Methyl Methacrylate	69	7.541	7.535	(1.098)	978284	200.000	180
42	Dibromomethane	93	7.681	7.681	(1.119)	1395716	200.000	200
43	Bromodichloromethane	83	7.864	7.858	(1.145)	3349071	200.000	200
44	2-Chloroethyl vinyl ether	63	8.204	8.204	(1.195)	1323555	200.000	230(A)
45	cis-1,3-Dichloropropene	75	8.399	8.399	(1.223)	4145379	200.000	200(A)
46	4-Methyl-2-pentanone	43	8.569	8.569	(1.248)	1729640	200.000	200
S 47	Toluene-d8	98	8.746	8.746	(0.826)	8218459	200.000	180
48	Toluene	91	8.831	8.825	(1.286)	8699341	200.000	180
49	trans-1,3-Dichloropropene	75	9.081	9.074	(1.323)	3953725	200.000	210(A)
50	Ethyl Methacrylate	69	*9.190*	*9.184*	(1.338)	2901229	200.000	220(A)
51	1,1,2-Trichloroethane	97	9.312	9.312	(1.356)	2186254	200.000	200
53	Tetrachloroethene	164	9.537	9.537	(0.901)	1816550	200.000	200
52	1,3-Dichloropropane	76	9.531	9.531	(0.900)	3932540	200.000	190
54	2-Hexanone	43	9.622	9.622	(0.909)	1247164	200.000	200(A)
55	Dibromochloromethane	129	9.835	9.829	(0.929)	2409686	200.000	200(A)
56	1,2-Dibromoethane	107	9.987	9.987	(0.943)	2205582	200.000	200
115	1-Chlorohexane	91	10.589	10.589	(1.000)	3894860	200.000	200(A)
* 57	Chlorobenzene-d5	117	10.589	10.589	(1.000)	1717044	50.0000	

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\030802.B\V6C8103.D
Report Date: 11-Aug-2003 16:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
58	Chlorobenzene	112	10.632	10.626	(1.004)	6642214	200.000	180
59	1,1,1,2-Tetrachloroethane	131	10.729	10.723	(1.013)	2402523	200.000	190
60	Ethylbenzene	106	10.766	10.766	(1.017)	3933400	200.000	200(A)
61	m,p-Xylene	106	10.918	10.912	(1.031)	8791302	400.000	370
62	o-Xylene	106	11.410	11.410	(1.078)	4770553	200.000	200(A)
64	Styrene	104	11.423	11.423	(1.079)	7335804	200.000	180
65	Bromoform	173	11.648	11.648	(1.100)	1653359	200.000	200(A)
66	Isopropylbenzene	105	11.867	11.867	(1.121)	9887620	200.000	180
67	trans-1,4-Dichloro-2-butene	75	11.928	11.921	(1.126)	990202	200.000	210(A)
S 68	Bromofluorobenzene	95	12.049	12.049	(1.138)	3824006	200.000	210(A)
69	1,1,2,2-Tetrachloroethane	83	12.207	12.207	(0.910)	3044932	200.000	190
70	Bromobenzene	156	12.238	12.238	(0.912)	2766539	200.000	200
71	1,2,3-Trichloropropane	75	12.268	12.262	(0.914)	3741895	200.000	190
72	n-Propylbenzene	120	12.366	12.366	(0.922)	3566059	200.000	200(A)
73	2-Chlorotoluene	126	12.469	12.469	(0.929)	2919310	200.000	200(A)
74	1,3,5-Trimethylbenzene	105	12.572	12.572	(0.937)	8452798	200.000	180
75	4-Chlorotoluene	126	12.597	12.597	(0.939)	2954828	200.000	190
M 63	Xylene (Total)	106				13561856	600.000	580
76	tert-Butylbenzene	119	12.962	12.962	(0.966)	9703675	200.000	190
77	1,2,4-Trimethylbenzene	105	13.016	13.010	(0.970)	8715896	200.000	180
78	sec-Butylbenzene	105	13.217	13.217	(0.985)	10861614	200.000	170
80	1,3-Dichlorobenzene	146	13.351	13.345	(0.995)	5142019	200.000	190
79	4-Isopropyltoluene	119	13.381	13.381	(0.997)	8866901	200.000	180
* 81	1,4-Dichlorobenzene-d4	152	13.418	13.418	(1.000)	896611	50.0000	
82	1,4-Dichlorobenzene	146	13.448	13.448	(1.002)	5211901	200.000	180
83	n-Butylbenzene	91	13.850	13.850	(1.032)	8728605	200.000	170
84	1,2-Dichlorobenzene	146	13.874	13.874	(1.034)	4899896	200.000	180
85	Hexachloroethane	117	14.178	14.178	(1.057)	2916349	200.000	200
86	1,2-Dibromo-3-chloropropane	75	14.732	14.738	(1.098)	577335	200.000	200(A)
87	1,2,4-Trichlorobenzene	180	15.457	15.457	(1.167)	3759919	200.000	200(A)
88	Hexachlorobutadiene	225	15.839	15.845	(1.180)	1723758	200.000	220(A)
89	Naphthalene	128	15.918	15.918	(1.186)	8023697	200.000	190
90	1,2,3-Trichlorobenzene	180	16.180	16.180	(1.206)	3401983	200.000	200(A)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount exceeded maximum amount.

SB 8/11/03

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Instrument ID: V6 Calibration Date: 08/05/03 Time: 0939

Lab File ID: V6C8141 Init. Calib. Date(s): 08/02/03 08/02/03

Heated Purge: (Y/N) N Init. Calib. Times: 0928 1117

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D	
Dichlorodifluoromethane	0.207	0.147	0.01	29.0	20.0	<-
Chloromethane	0.366	0.296	0.1	19.1	20.0	
Vinyl Chloride	0.369	0.296	0.01	19.8	20.0	
Bromomethane	0.197	0.164	0.01	16.8	20.0	
Chloroethane	0.209	0.180	0.01	13.9	20.0	
Trichlorofluoromethane	0.328	0.275	0.01	16.2	20.0	
1,1-Dichloroethene	0.123	0.106	0.01	13.8	20.0	
Acetone	0.082	0.080	0.01	2.4	20.0	
Iodomethane	0.266	0.236	0.01	11.3	20.0	
Carbon Disulfide	0.496	0.445	0.01	10.3	20.0	
Methylene Chloride	0.188	0.181	0.01	3.7	20.0	
trans-1,2-Dichloroethene	0.160	0.143	0.01	10.6	20.0	
Methyl tert-butyl ether	0.681	0.654	0.01	4.0	20.0	
1,1-Dichloroethane	0.378	0.364	0.1	3.7	20.0	
Vinyl acetate	0.359	0.410	0.01	14.2	20.0	
2-Butanone	0.099	0.116	0.01	17.2	20.0	
cis-1,2-Dichloroethene	*0.229*	*0.214*	*0.01*	*6.6*	*20.0*	
2,2-Dichloropropane	0.207	0.167	0.01	19.3	20.0	
Bromochloromethane	0.106	0.105	0.01	0.9	20.0	
Chloroform	0.450	0.433	0.01	3.8	20.0	
1,1,1-Trichloroethane	0.312	0.288	0.01	7.7	20.0	
1,1-Dichloropropene	0.096	0.091	0.01	5.2	20.0	
Carbon Tetrachloride	0.271	0.249	0.01	8.1	20.0	
1,2-Dichloroethane	0.325	0.316	0.01	2.8	20.0	
Benzene	0.871	0.856	0.01	1.7	20.0	
Trichloroethene	0.224	0.217	0.01	3.1	20.0	
1,2-Dichloropropane	0.266	0.265	0.01	0.4	20.0	
Dibromomethane	0.155	0.154	0.01	0.6	20.0	
Bromodichloromethane	0.376	0.364	0.01	3.2	20.0	
cis-1,3-Dichloropropene	0.444	0.434	0.01	2.2	20.0	
4-Methyl-2-pentanone	0.192	0.221	0.01	15.1	20.0	
Toluene	1.051	1.062	0.01	1.0	20.0	
trans-1,3-Dichloropropene	0.421	0.426	0.01	1.2	20.0	
1,1,2-Trichloroethane	0.244	0.254	0.01	4.1	20.0	
1,3-Dichloropropane	0.591	0.597	0.01	1.0	20.0	
Tetrachloroethene	0.270	0.276	0.01	2.2	20.0	
2-Hexanone	0.180	0.216	0.01	20.0	20.0	<-

FORM VII VOA

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Instrument ID: V6 Calibration Date: 08/05/03 Time: 0939

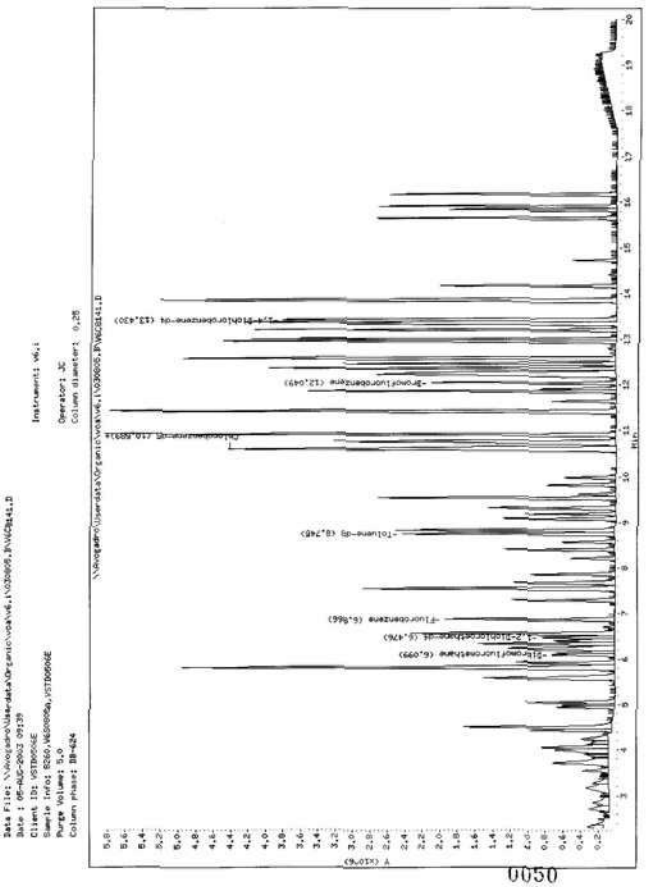
Lab File ID: V6C8141 Init. Calib. Date(s): 08/02/03 08/02/03

Heated Purge: (Y/N) N Init. Calib. Times: 0928 1117

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dibromochloromethane	0.347	0.340	0.01	2.0	20.0
1,2-Dibromoethane	0.326	0.327	0.01	0.3	20.0
Chlorobenzene	1.047	1.014	0.3	3.2	20.0
1,1,1,2-Tetrachloroethane	0.360	0.344	0.01	4.4	20.0
Ethylbenzene	0.571	0.564	0.01	1.2	20.0
m,p-Xylene	0.683	0.707	0.01	3.5	20.0
o-Xylene	0.688	0.718	0.01	4.4	20.0
Xylene (Total)	0.685	0.710	0.01	3.6	20.0
Styrene	1.165	1.229	0.01	5.5	20.0
Bromoform	0.234	0.257	0.1	9.8	20.0
Isopropylbenzene	1.588	1.710	0.01	7.7	20.0
1,1,2,2-Tetrachloroethane	0.886	0.903	0.3	1.9	20.0
Bromobenzene	0.785	0.727	0.01	7.4	20.0
1,2,3-Trichloropropane	1.075	1.098	0.01	2.1	20.0
n-Propylbenzene	0.966	0.922	0.01	4.6	20.0
2-Chlorotoluene	0.808	0.776	0.01	4.0	20.0
1,3,5-Trimethylbenzene	*2.641*	*2.544*	*0.01*	*3.7*	*20.0*
4-Chlorotoluene	0.848	0.818	0.01	3.5	20.0
tert-Butylbenzene	2.890	2.824	0.01	2.3	20.0
1,2,4-Trimethylbenzene	2.738	2.640	0.01	3.6	20.0
sec-Butylbenzene	3.459	3.427	0.01	0.9	20.0
4-Isopropyltoluene	2.755	2.733	0.01	0.8	20.0
1,3-Dichlorobenzene	1.542	1.507	0.01	2.3	20.0
1,4-Dichlorobenzene	1.610	1.521	0.01	5.5	20.0
n-Butylbenzene	2.805	2.796	0.01	0.3	20.0
1,2-Dichlorobenzene	1.494	1.486	0.01	0.5	20.0
1,2-Dibromo-3-chloropropane	0.160	0.178	0.01	11.2	20.0
1,2,4-Trichlorobenzene	1.017	1.021	0.01	0.4	20.0
Hexachlorobutadiene	0.445	0.424	0.01	4.7	20.0
Naphthalene	2.379	2.554	0.01	7.4	20.0
1,2,3-Trichlorobenzene	0.932	0.961	0.01	3.1	20.0
Dibromofluoromethane	0.248	0.240	0.01	3.2	20.0
1,2-Dichloroethane-d4	0.059	0.062	0.01	5.1	20.0
Toluene-d8	1.297	1.262	0.01	2.7	20.0
Bromofluorobenzene	0.533	0.565	0.01	6.0	20.0

FORM VII VOA



0050

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\030805.B\V6C8141.D
Report Date: 12-Aug-2003 09:55

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\030805.B\V6C8141.D
Lab Smp Id: V6S0805A Client Smp ID: VSTD0506E
Inj Date : 05-AUG-2003 09:39
Operator : *JC* *Inst ID: v6.i*
Smp Info : 8260,V6S0805A,VSTD0506E
Misc Info : ,2
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\030805.B\v68260.m
Meth Date : 12-Aug-2003 09:52 mtl Quant Type: ISTD
Cal Date : 02-AUG-2003 11:17 Cal File: V6C8105.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.03
Processing Host: TARGET8

*Concentration Formula: Amt * DF * Uf * 5/Vo*

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85	1.956	1.956	(0.285)	368532	50.0000	35
2 Chloromethane	50	2.175	2.175	(0.317)	741431	50.0000	40
3 Vinyl Chloride	62	2.333	2.333	(0.340)	742074	50.0000	40
4 Bromomethane	94	2.723	2.723	(0.397)	411159	50.0000	42
5 Chloroethane	64	2.844	2.844	(0.414)	450580	50.0000	43
6 Trichlorofluoromethane	101	3.143	3.143	(0.458)	689189	50.0000	42
8 1,1-Dichloroethene	96	3.714	3.714	(0.541)	344919	50.0000	45
9 Acetone	43	3.708	3.708	(0.540)	200032	50.0000	48
10 Iodomethane	142	3.897	3.897	(0.568)	390493	50.0000	44
11 Carbon Disulfide	76	3.964	3.964	(0.577)	1115500	50.0000	45
14 Methylene Chloride	84	4.250	4.250	(0.619)	454389	50.0000	48
16 trans-1,2-Dichloroethene	96	4.499	4.499	(0.655)	357960	50.0000	44
17 Methyl tert-butyl ether	73	4.505	4.505	(0.656)	1639264	50.0000	48
18 1,1-Dichloroethane	63	4.949	4.949	(0.721)	913301	50.0000	48
19 Vinyl acetate	43	4.992	4.992	(0.727)	1027084	50.0000	57
22 2-Butanone	43	5.576	5.576	(0.812)	290626	50.0000	58

0051

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\030805.B\V6C8141.D
Report Date: 12-Aug-2003 09:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
23 cis-1,2-Dichloroethene	96	5.582	5.582	(0.813)	537110	50.0000	47
24 2,2-Dichloropropane	77	5.583	5.582	(0.813)	419359	50.0000	40
27 Bromochloromethane	128	5.837	5.837	(0.850)	262199	50.0000	53
28 Chloroform	83	5.923	5.923	(0.863)	1086651	50.0000	48
S 30 Dibromofluoromethane	113	6.093	6.093	(0.887)	601748	50.0000	48
31 1,1,1-Trichloroethane	97	6.148	6.148	(0.895)	722096	50.0000	46
32 1,1-Dichloropropene	110	6.333	6.333	(0.922)	298545	50.0000	48
33 Carbon Tetrachloride	117	6.342	6.342	(0.924)	625203	50.0000	46
S 35 1,2-Dichloroethane-d4	102	6.476	6.476	(0.943)	155975	50.0000	53
36 1,2-Dichloroethane	62	6.561	6.561	(0.956)	793214	50.0000	49
37 Benzene	78	6.561	6.561	(0.956)	2145554	50.0000	49
* 38 Fluorobenzene	96	6.866	6.866	(1.000)	3506834	50.0000	
39 Trichloroethene	130	7.291	7.291	(1.062)	544052	50.0000	48
40 1,2-Dichloropropane	63	7.541	7.541	(1.098)	664620	50.0000	50
42 Dibromomethane	93	7.675	7.675	(1.118)	387301	50.0000	50
43 Bromodichloromethane	83	7.857	7.857	(1.144)	912712	50.0000	48
45 cis-1,3-Dichloropropene	75	8.399	8.399	(1.223)	1088785	50.0000	49
46 4-Methyl-2-pentanone	43	8.569	8.569	(1.248)	553091	50.0000	58
S 47 Toluene-d8	98	8.739	8.739	(0.825)	2354008	50.0000	49
48 Toluene	91	8.824	8.824	(1.285)	2661123	50.0000	50
49 trans-1,3-Dichloropropene	75	9.080	9.080	(1.323)	1067054	50.0000	50
51 1,1,2-Trichloroethane	97	9.311	9.311	(1.356)	635843	50.0000	52
52 1,3-Dichloropropane	76	9.530	9.530	(0.960)	1114027	50.0000	50
53 Tetrachloroethene	164	9.536	9.536	(0.961)	513960	50.0000	51
54 2-Hexanone	43	9.421	9.431	(0.959)	402795	50.0000	60
55 Dibromochloromethane	129	9.828	9.828	(0.928)	633592	50.0000	49
56 1,2-Dibromoethane	107	9.986	9.986	(0.943)	610147	50.0000	50
* 57 Chlorobenzene-d5	117	10.589	10.589	(1.000)	1864944	50.0000	
58 Chlorobenzene	112	10.625	10.625	(1.003)	1891320	50.0000	48
59 1,1,1,2-Tetrachloroethane	131	10.722	10.722	(1.013)	641377	50.0000	48
60 Ethylbenzene	106	10.765	10.765	(1.017)	1051692	50.0000	49
61 m,p-Xylene	106	10.911	10.911	(1.030)	2636341	100.000	100
62 o-Xylene	106	11.410	11.410	(1.078)	1338194	50.0000	53
M 63 Xylene (Total)	106				3974555	150.000	150
64 Styrene	104	11.422	11.422	(1.079)	2292985	50.0000	53
65 Bromoform	173	11.647	11.647	(1.100)	479004	50.0000	55
66 Isopropylbenzene	105	11.860	11.860	(1.120)	3190005	50.0000	54
S 68 Bromofluorobenzene	95	12.049	12.049	(1.138)	1052551	50.0000	53
69 1,1,2,2-Tetrachloroethane	83	12.207	12.207	(0.910)	1009052	50.0000	51
70 Bromobenzene	156	12.237	12.237	(0.912)	812184	50.0000	46
71 1,2,3-Trichloropropane	75	12.262	12.262	(0.914)	1227246	50.0000	51
72 n-Propylbenzene	120	12.365	12.365	(0.922)	1030464	50.0000	48
73 2-Chlorotoluene	126	12.468	12.468	(0.929)	866929	50.0000	48
74 1,3,5-Trimethylbenzene	105	12.566	12.566	(0.937)	2842364	50.0000	48
75 4-Chlorotoluene	126	12.596	12.596	(0.939)	914522	50.0000	48
76 tert-Butylbenzene	119	12.955	12.955	(0.966)	3155333	50.0000	49
77 1,2,4-Trimethylbenzene	105	13.016	13.016	(0.970)	2948999	50.0000	48

0052

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\030805.B\V6C8141.D
Report Date: 12-Aug-2003 09:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
78 sec-Butylbenzene	105	13.217	13.217	(0.985)	3828729	50.0000	50
79 4-Isopropyltoluene	119	13.381	13.381	(0.997)	3053871	50.0000	52
80 1,3-Dichlorobenzene	146	13.346	13.346	(0.995)	1683499	50.0000	49
* 81 1,4-Dichlorobenzene-d4	152	13.417	13.417	(1.000)	1117246	50.0000	
82 1,4-Dichlorobenzene	146	13.448	13.448	(1.002)	1699241	50.0000	47
83 n-Butylbenzene	91	13.869	13.869	(1.032)	3123705	50.0000	50
84 1,2-Dichlorobenzene	146	13.874	13.874	(1.034)	1660125	50.0000	50
86 1,2-Dibromo-3-chloropropane	75	14.738	14.728	(1.098)	198438	50.0000	55
87 1,2,4-Trichlorobenzene	180	15.656	15.656	(1.167)	1140799	50.0000	50
88 Hexachlorobutadiene	225	15.845	15.845	(1.181)	474256	50.0000	48
89 Naphthalene	128	15.918	15.918	(1.186)	2853417	50.0000	54
90 1,2,3-Trichlorobenzene	180	16.179	16.179	(1.206)	1074043	50.0000	52

QK 8/12/03

0053

Data File: \\AVOGADRO\USERDATA\Organic\woa\v6.i\030802.B\V6C8100.D Page 2

Date : 02-AUG-2003 09:04

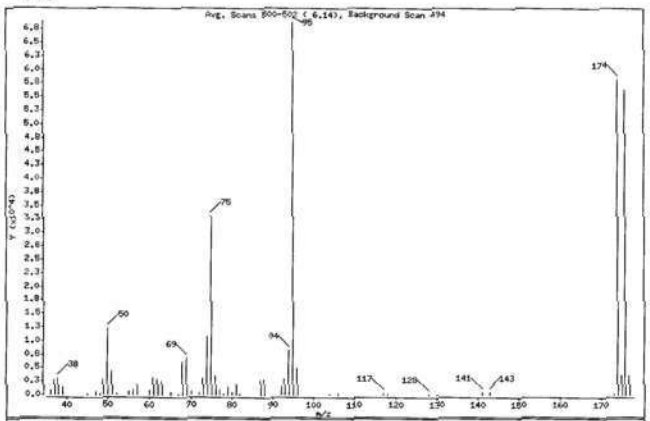
Client ID: BFB6C Instrument: v6.i

Sample Info: 8260,V6T0802A,BFB6C

Operator: JC

Column phase: DB-624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative Abundance	100.00
50	15.00 - 40.00% of mass 95	17.65
75	30.00 - 60.00% of mass 95	47.97
96	5.00 - 9.00% of mass 95	7.12
173	Less than 2.00% of mass 174	0.26 (0.31)
174	50.00 - 100.00% of mass 95	84.52
175	5.00 - 9.00% of mass 174	5.32 (6.29)
176	95.00 - 101.00% of mass 174	81.84 (96.82)
177	5.00 - 9.00% of mass 176	5.36 (6.55)

0054

Data File: \\AVOGADRO\USERDATA\Organic\woa\v6.i\030802.B\V6C8100.D Page 3

Date : 02-AUG-2003 09:04

Client ID: BFB6C Instrument: v6.i

Sample Info: 8260,V6T0802A,BFB6C

Operator: JC

Column phase: DB-624 Column diameter: 0.25

Data File: V6C8100.D

Spectrum: Avg. Scans 500-502 (6.14), Background Scan 494

Location of Maximum: 95.00

Number of points: 54

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	732	60.00	796	77.00	904	106.00	372
37.00	2743	61.00	3131	78.00	197	117.00	276
38.00	2977	62.00	2784	79.00	1382	118.00	167
39.00	1497	63.00	2857	80.00	482	128.00	199
46.00	182	65.00	450	81.00	1946	130.00	180
47.00	578	67.00	175	82.00	206	141.00	483
48.00	306	68.00	6206	87.00	2654	143.00	442
49.00	2635	69.00	6819	88.00	2779	173.00	177
50.00	12141	70.00	662	92.00	1620	174.00	58144
51.00	4218	72.00	384	93.00	2919	175.00	3659
52.00	187	73.00	2938	94.00	8211	176.00	56296
55.00	616	74.00	10728	95.00	68792	177.00	3689
56.00	931	75.00	33000	96.00	4897		
57.00	1970	76.00	3505	104.00	176		

0055

Data File: \\AVOGADRO\USERDATA\Organic\woa\v6.i\030802.B\V6C8100.D Page 1

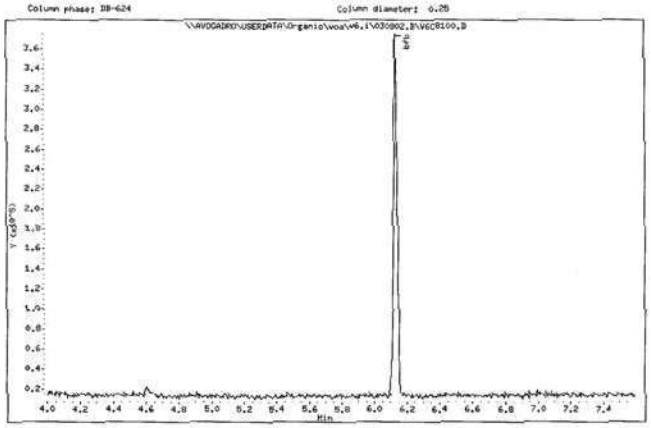
Date : 02-AUG-2003 09:04

Client ID: BFB6C Instrument: v6.i

Sample Info: 8260,V6T0802A,BFB6C

Operator: JC

Column phase: DB-624 Column diameter: 0.25



0056

Data File: \\Avogadro\Userdata\Organic\woa\v6.i\030805.B\V6C8140.D Page 2

Date : 05-AUG-2003 09:16

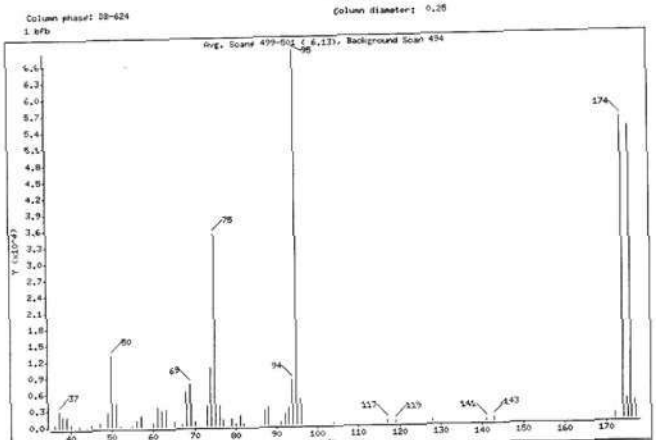
Client ID: BFB6E Instrument: v6.i

Sample Info: 8260,V6T0805A,BFB6E

Operator: JC

Column phase: DB-624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative Abundance	100.00
50	15.00 - 40.00% of mass 95	18.80
75	30.00 - 60.00% of mass 95	51.05
96	5.00 - 9.00% of mass 95	6.71
173	Less than 2.00% of mass 174	0.60 (0.66)
174	80.00 - 100.00% of mass 95	80.72
175	5.00 - 9.00% of mass 174	5.22 (6.47)
176	95.00 - 101.00% of mass 174	78.40 (97.13)
177	5.00 - 9.00% of mass 176	4.87 (6.21)

0057

Data File: \\Avogadro\Userdata\Organic\voa\v6.1\030805.B\V6C8140.D Page 3

Date : 06-AUG-2003 09:15

Client ID: BFB6E Instrument: v6.1

Sample Info: 8260,V6T0805A,BFB6E

Operator: JC

Column Phase: DB-624 Column diameter: 0.25

Data File: V6C8140.D
Spectrum: Avg. Scans 499-501 (6.13), Background Scan 494
Location of Maximum: 95.00
Number of points: 52

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	484	56.00	1162	76.00	359%	104.00	174
37.00	2791	57.00	1834	77.00	1077	117.00	548
38.00	1928	60.00	568	79.00	1186	119.00	367
39.00	1938	61.00	3423	80.00	37%	128.00	263
40.00	619	62.00	2822	81.00	1758	141.00	351
42.00	201	63.00	3060	82.00	374	143.00	708
44.00	61	65.00	917	87.00	2588	172.00	962
45.00	526	67.00	364	88.00	3114	174.00	65224
47.00	642	68.00	6079	91.00	484	175.00	3571
49.00	2499	69.00	7588	92.00	1968	176.00	53632
50.00	12863	70.00	710	93.00	2998	177.00	3333
51.00	4117	73.00	3870	94.00	8044		
52.00	184	74.00	10613	95.00	68416		
86.00	195	75.00	34920	96.00	4896		

Data File: \\Avogadro\Userdata\Organic\voa\v6.1\030805.B\V6C8140.D Page 1

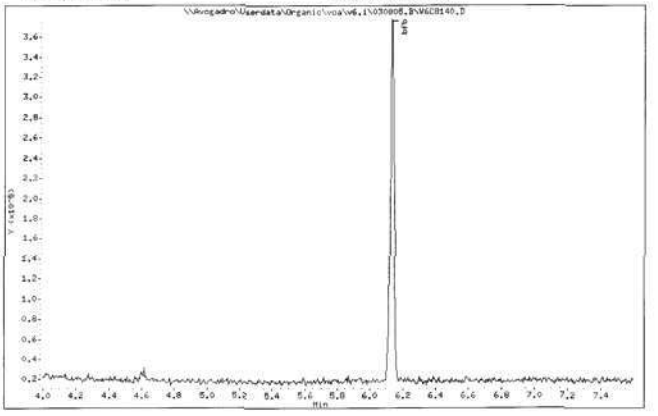
Date : 06-AUG-2003 09:15

Client ID: BFB6E Instrument: v6.1

Sample Info: 8260,V6T0805A,BFB6E

Operator: JC

Column phase: DB-624 Column diameter: 0.25



0058

0059

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: VBLK6F

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Matrix: (soil/water) WATER Lab Sample ID: V6B0805A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C8142

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/05/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
74-88-4	Iodomethane	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
108-05-4	Vinyl acetate	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	5	U
590-20-7	2,2-Dichloropropane	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
563-58-6	1,1-Dichloropropene	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U

FORM I VOA OLM03.0

0060

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: VBLK6F

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Matrix: (soil/water) WATER Lab Sample ID: V6B0805A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C8142

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/05/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
142-28-9	1,3-Dichloropropane	5	U
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U
100-41-4	Ethylbenzene	5	U
	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	Isopropylbenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-86-1	Bromobenzene	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
106-43-4	4-Chlorotoluene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U

FORM I VOA OLM03.0

0061

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK6F

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Matrix: (soil/water) WATER Lab Sample ID: V6B0805A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C8142

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/05/03

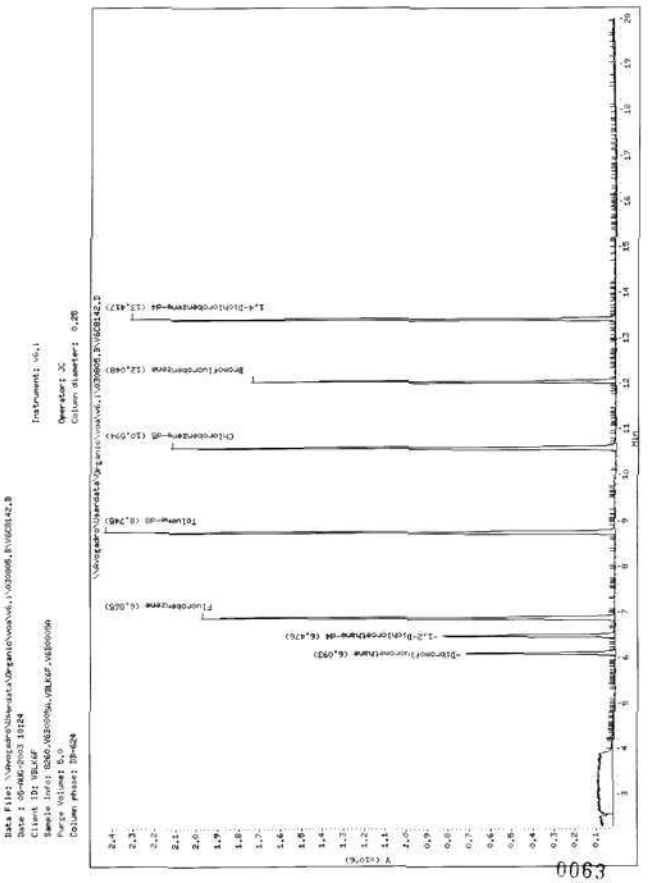
GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM I VOA-TIC OLM03.0



Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\030805.B\V6C8142.D
Report Date: 12-Aug-2003 09:55

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\030805.B\V6C8142.D
Lab Smp Id: V6B0805A Client Smp ID: VBLK6F
Inj Date : 05-AUG-2003 10:24
Operator : JC Inst ID: v6.i
Smp Info : 8260,V6B0805A,VBLK6F,V6B0805A
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\030805.B\v68260.m
Meth Date : 12-Aug-2003 09:52 mtl Quant Type: ISTD
Cal Date : 02-AUG-2003 11:17 Cal File: V6C8105.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.03
Processing Host: TARGET8

Concentration Formula: Amt * DF * Uf * 5/Vo

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ul)	FINAL (ug/l)
**********	****	**	******	******	********	********	*******
$ 36 Dibromofluoromethane	113	6.099	6.093	(0.888)	606396	49.2649	49
$ 38 1,2-Dichloroethane-d4	102	6.470	6.476	(0.942)	159448	54.3610	54
* 39 Fluorobenzene	96	6.865	6.866	(1.000)	2484884	50.0000	
$ 47 Toluene-d8	98	8.745	8.739	(0.824)	2324353	50.8956	51
* 57 Chlorobenzene-d5	117	10.588	10.589	(1.000)	1760254	50.0000	
$ 66 Bromofluorobenzene	95	12.048	12.049	(1.138)	930349	44.2746	44
* 82 1,4-Dichlorobenzene-d4	152	13.423	13.417	(1.000)	827573	50.0000	

GK 8/12/03

Data File: \\AVOGADRO\USERDATA\Organic\voa\v6.i\030805.B\V6C8142.D
Report Date: 12-Aug-2003 14:13

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\AVOGADRO\USERDATA\Organic\voa\v6.i\030805.B\V6C8142.D
Lab Smp Id: V6B0805A Client Smp ID: VBLK6F
Inj Date : 05-AUG-2003 10:24
Operator : JC Inst ID: v6.i
Smp Info : 8260,V6B0805A,VBLK6F,V6B0805A
Misc Info : ,3
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\030805.B\v68260.m
Meth Date : 12-Aug-2003 14:13 mtl Quant Type: ISTD
Cal Date : 02-AUG-2003 09:28 Cal File: V6C8101.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.03
Processing Host: TARGET2

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V6FLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Matrix: (soil/water) WATER Lab Sample ID: V6L0805A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C8143

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 08/05/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	38	
74-87-3	Chloromethane	46	
75-01-4	Vinyl chloride	42	
74-83-9	*Bromomethane*	*41*	
75-00-3	Chloroethane	43	
75-69-4	Trichlorofluoromethane	44	
75-35-4	1,1-Dichloroethene	44	
67-64-1	Acetone	45	
74-88-4	Iodomethane	44	
75-15-0	Carbon Disulfide	51	
75-09-2	Methylene Chloride	49	
156-60-5	trans-1,2-Dichloroethene	48	
1634-04-4	Methyl tert-butyl ether	48	
75-34-3	1,1-Dichloroethane	*49*	
108-05-4	Vinyl acetate	60	
78-93-3	2-Butanone	56	
156-59-2	cis-1,2-Dichloroethene	47	
590-20-7	2,2-Dichloropropane	49	
74-97-5	Bromochloromethane	50	
67-66-3	Chloroform	49	
71-55-6	1,1,1-Trichloroethane	48	
563-58-6	1,1-Dichloropropene	48	
56-23-5	Carbon Tetrachloride	47	
107-06-2	1,2-Dichloroethane	50	
71-43-2	Benzene	50	
79-01-6	Trichloroethene	47	
78-87-5	1,2-Dichloropropane	51	
74-95-3	Dibromomethane	52	
75-27-4	Bromodichloromethane	49	
10061-01-5	cis-1,3-Dichloropropene	49	
108-10-1	4-Methyl-2-pentanone	58	
108-88-3	Toluene	51	
10061-02-6	trans-1,3-Dichloropropene	51	
79-00-5	1,1,2-Trichloroethane	52	

FORM I VOA OLM03.0

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
V6FLCS

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: B1247

Matrix: (soil/water) WATER Lab Sample ID: V6L0805A

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6C8143

Level: (low/med) LOW Date Received: _____

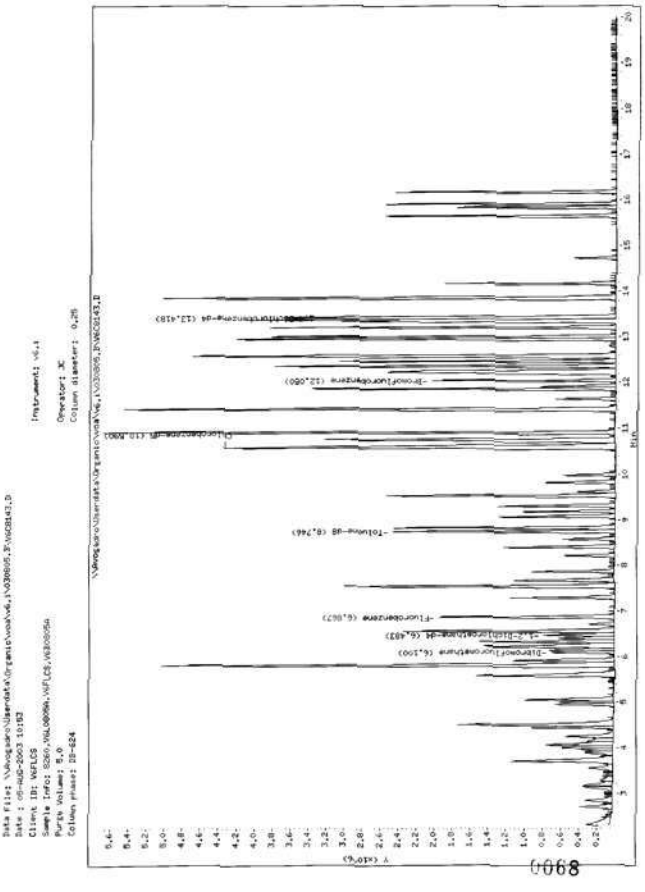
% Moisture: not dec. _____ Date Analyzed: 08/05/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
142-28-9	1,3-Dichloropropane	51	
127-18-4	Tetrachloroethene	47	
591-78-6	2-Hexanone	59	
124-48-1	Dibromochloromethane	48	
106-93-4	1,2-Dibromoethane	50	
108-90-7	Chlorobenzene	49	
630-20-6	1,1,1,2-Tetrachloroethane	47	
100-41-4	Ethylbenzene	50	
	m,p-Xylene	100	
95-47-6	o-Xylene	52	
1330-20-7	Xylene (Total)	160	
100-42-5	Styrene	53	
75-25-2	Bromoform	53	
98-82-8	*Isopropylbenzene*	*53*	
79-34-5	1,1,2,2-Tetrachloroethane	52	
108-86-1	Bromobenzene	47	
96-18-4	1,2,3-Trichloropropane	51	
103-65-1	n-Propylbenzene	48	
95-49-8	2-Chlorotoluene	48	
108-67-8	1,3,5-Trimethylbenzene	48	
106-43-4	4-Chlorotoluene	49	
98-06-6	tert-Butylbenzene	49	
95-63-6	1,2,4-Trimethylbenzene	49	
135-98-8	*sec-Butylbenzene*	*50*	
99-87-6	4-Isopropyltoluene	49	
541-73-1	1,3-Dichlorobenzene	49	
106-46-7	1,4-Dichlorobenzene	48	
104-51-8	n-Butylbenzene	50	
95-50-1	1,2-Dichlorobenzene	49	
96-12-8	1,2-Dibromo-3-chloropropane	54	
120-82-1	1,2,4-Trichlorobenzene	49	
87-68-3	Hexachlorobutadiene	47	
91-20-3	Naphthalene	52	
87-61-6	*1,2,3-Trichlorobenzene*	*51*	

FORM I VOA OLM03.0



Data File: \\Avogadro\Userdata\Organic\voa\v6.i\030805.B\V6C8143.D
Report Date: 12-Aug-2003 10:59

Mitkem Corporation

Method 8260 Water and Medium Soil

Data file : \\Avogadro\Userdata\Organic\voa\v6.i\030805.B\V6C8143.D
Lab Smp Id: V6L0805A Client Smp ID: V6FLCS
Inj Date : 05-AUG-2003 10:53
Operator : JC Inst ID: v6.i
Smp Info : 8260,V6L0805A,V6FLCS,V6B0805A
Misc Info : ,3,.LCS
Comment :
Method : \\AVOGADRO\USERDATA\Organic\voa\v6.i\030805.B\v68260.m
Meth Date : 12-Aug-2003 09:52 mtl Quant Type: ISTD
Cal Date : 02-AUG-2003 11:17 Cal File: V6C8105.D
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 8260.sub
Target Version: 4.12

Concentration Formula: Amt * DF * Uf * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vo	*5.000*	*Sample Volume purged (mL)*
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Dichlorodifluoromethane	85	1.951	1.956	(0.284)	389439	38.5007	38
2 Chloromethane	50	*2.170*	*2.175*	*(0.316)*	*454174*	45.8454	46
3 Vinyl Chloride	62	2.328	2.333	(0.339)	765793	42.5247	43
4 Bromomethane	94	2.717	2.722	(0.396)	391785	40.7944	41
5 Chloroethane	64	2.851	2.844	(0.415)	444294	43.4802	43
6 Trichlorofluoromethane	101	3.137	3.142	(0.457)	497452	43.6343	44
8 1,1-Dichloroethene	96	3.715	3.714	(0.541)	264474	44.1379	44
9 Acetone	43	3.715	3.708	(0.541)	180584	44.6412	45
10 Iodomethane	142	3.891	3.896	(0.567)	576858	44.4110	44
11 Carbon Disulfide	76	3.958	3.963	(0.577)	1244218	51.3434	51
14 Methylene Chloride	84	4.244	4.249	(0.618)	452517	49.3708	49
16 cmpnd-1,2-Dichloroethene	*96*	*4.804*	*4.809*	*(0.699)*	*380239*	*49.5702*	*49*
17 Methyl tert-butyl ether	73	4.804	4.805	(0.656)	1616356	48.5853	48
18 1,1-Dichloroethane	63	4.950	4.949	(0.721)	903161	48.9807	49
19 Vinyl acetate	43	4.998	4.991	(0.728)	1048106	59.7404	60
22 2-Butanone	43	5.576	5.575	(0.812)	271643	55.8935	56
23 cis-1,2-Dichloroethene	96	5.582	5.581	(0.813)	528708	47.2142	47
24 2,2-Dichloropropane	77	5.588	5.581	(0.814)	492799	48.8162	49
27 Bromochloromethane	128	5.838	5.837	(0.850)	355182	49.5076	50
28 Chloroform	83	5.929	5.922	(0.864)	1085101	49.3397	49
30 Dibromofluoromethane	113	6.099	6.092	(0.888)	582194	48.1563	48
31 1,1,1-Trichloroethane	*97*	*6.154*	*6.147*	*(0.896)*	*726893*	*47.7355*	*48*
32 1,1-Dichloropropene	110	6.337	6.330	(0.923)	336056	48.3181	48

Data File: \\Avogadro\Userdata\Organic\voa\v6.i\030805.B\V6C8143.D
Report Date: 12-Aug-2003 10:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	33 Carbon Tetrachloride	117	6.343	6.342	(0.924)	816626	46.7945	47
$	35 1,2-Dichloroethane-d4	102	6.477	6.474	(0.943)	152489	52.9334	53
	36 1,2-Dichloroethane	62	6.568	6.561	(0.957)	787994	49.6275	50
	37 Benzene	78	6.563	6.561	(0.956)	2141191	50.3531	50
*	38 Fluorobenzene	96	6.866	6.865	(1.000)	2440428	50.0000	
	39 Trichloroethene	130	7.298	7.291	(1.063)	619377	47.4333	47
	40 1,2-Dichloropropane	63	7.547	7.540	(1.099)	664200	51.0817	51
	42 Dibromomethane	93	7.681	7.674	(1.119)	333904	51.9942	52
	43 Bromodichloromethane	83	7.858	7.857	(1.144)	894935	48.7742	49
	45 cis-1,3-Dichloropropene	75	8.399	8.398	(1.223)	1044172	49.0773	49
	46 4-Methyl-2-pentanone	43	8.576	8.568	(1.249)	541584	57.8182	58
$	47 Toluene-d8	98	8.744	8.755	(1.274)	3555506	49.5166	49
	48 Toluene	91	8.831	8.826	(1.286)	3627041	51.1939	51
	49 trans-1,3-Dichloropropene	75	9.080	9.079	(1.322)	1047727	50.8921	51
	51 1,1,2-Trichloroethane	97	9.318	9.311	(1.357)	624947	52.5477	52
	52 1,3-Dichloropropane	76	9.531	9.530	(0.900)	1103493	50.7508	51
	53 Tetrachloroethene	164	9.537	9.536	(0.901)	467982	47.0306	47
	54 2-Hexanone	43	9.622	9.625	(0.909)	392617	59.0476	59
	55 Dibromochloromethane	129	9.829	9.828	(0.928)	611684	47.8781	48
	56 1,2-Dibromoethane	107	9.987	9.986	(0.943)	601550	50.1337	50
*	57 Chlorobenzene-d5	117	10.589	10.588	(1.000)	1839490	50.0000	
	58 Chlorobenzene	112	10.632	10.625	(1.004)	1887456	48.8728	49
	59 1,1,1,2-Tetrachloroethane	131	10.733	10.722	(1.013)	626894	47.3087	47
	60 Ethylbenzene	106	10.766	10.765	(1.017)	1053744	50.1789	50
	61 m,p-Xylene	106	10.912	10.911	(1.030)	2591628	103.106	100
	62 o-Xylene	106	11.410	11.409	(1.078)	1322575	52.2394	52
M	63 Xylene (Total)	106				3914203	155.345	160
	64 Styrene	104	11.423	11.422	(1.079)	2256441	52.6620	53
	65 Bromoform	173	11.648	11.647	(1.100)	459391	53.5671	53
	66 Isopropylbenzene	105	11.867	11.860	(1.121)	3081060	52.7546	53
$	68 Bromofluorobenzene	95	12.049	12.049	(1.139)	1535399	50.9535	51
	69 1,1,2,2-Tetrachloroethane	83	12.207	12.206	(0.910)	988723	52.2010	52
	70 Bromobenzene	156	12.238	12.237	(0.913)	784569	46.7751	47
	71 1,2,3-Trichloropropane	75	12.262	12.261	(0.914)	1179659	51.3701	51
	72 n-Propylbenzene	120	12.365	12.365	(0.922)	994892	48.1808	48
	73 2-Chlorotoluene	126	12.469	12.468	(0.929)	823333	47.6659	48
	74 1,3,5-Trimethylbenzene	105	12.572	12.565	(0.937)	3725124	48.2908	48
	75 4-Chlorotoluene	126	12.597	12.596	(0.939)	887279	48.9857	49
	76 tert-Butylbenzene	119	12.956	12.955	(0.966)	3033984	49.1284	49
	77 1,2,4-Trimethylbenzene	105	13.016	13.015	(0.970)	2858982	48.8764	49
	78 sec-Butylbenzene	105	13.217	13.216	(0.985)	3688912	49.9108	50
	79 4-Isopropyltoluene	119	13.381	13.380	(0.997)	2893937	49.1664	49
	80 1,3-Dichlorobenzene	146	13.345	13.344	(0.995)	1620350	49.1801	49
*	81 1,4-Dichlorobenzene-d4	152	13.418	13.417	(1.000)	1068253	50.0000	
	82 1,4-Dichlorobenzene	146	13.448	13.447	(1.002)	1653471	48.0722	48
	83 n-Butylbenzene	91	13.850	13.849	(1.032)	2981582	49.7448	50
	84 1,2-Dichlorobenzene	146	13.874	13.873	(1.034)	1574275	49.3009	49
	86 1,2-Dibromo-3-chloropropane	75	14.738	14.737	(1.098)	185416	54.0953	54
	87 1,2,4-Trichlorobenzene	180	15.657	15.656	(1.167)	1071231	49.2772	49
	88 Hexachlorobutadiene	225	15.859	15.844	(1.182)	449643	47.1311	47
	89 Naphthalene	128	15.918	15.917	(1.186)	2671323	52.5632	52
	90 1,2,3-Trichlorobenzene	180	16.180	16.179	(1.206)	1011972	50.7906	51

C/K 8/12/03

0070

Date: 8/02/03

Instrument V 6
Injection Log

Mitkem Corporation
Volatiles Laboratory

METHOD: V6 8260
INITIAL CAL:
COMMENTS: 8/02/03

CAL ID: VW030731C-IS
IS/SS ID: VW030731D-SS
VW030731E-SID
VW030722D-GAS

ANALYST: YD
ARCHIVE:

AS #	FILE		MITKEM ID		CLIENT ID	SAMPLE SIZE	DIL	COMMENTS	IS	SS	pH
	V6C81	00	V6T0802	A	BFB6C	2mL	—	DIC 09:04			
		01	V6S0802	A	VSTD050ZC	5mL					
		02		B	VSTD00ZC						
		03		C	VSTD20ZC			Ical for 8260 Aqueous			
		04		D	VSTD100ZC			and M.C Soil			
		05	V6S0803	E	VSTD200ZC						
	V6C81	06	ICV		ICV	5mL	—	12:55			

Y/n
08/04/03

Logbook ID 90.0200-5/03 Reviewed By: YD 8/6/03 Logbook page: 049

0071

Date: 8/5/03

Instrument V 6
Injection Log 8550

Mitkem Corporation
Volatiles Laboratory

METHOD: V68260
INITIAL CAL: 8/2/03
COMMENTS:

CAL ID: VW030731C-IS
IS/SS ID: VW030731D-SS
VW030731E-SID
VW030722D-GAS
VW030702A-APP IX

ANALYST: TRA
ARCHIVE:

AS #	FILE		MITKEM ID		CLIENT ID	SAMPLE SIZE	DIL	COMMENTS	IS	SS	pH
	V6C81	40	V6T0805	A	BFB6E	2mL	—	OK 9:15			
		41	V6S0805		VSTD0506E	5mL	—	OK	✓		
		42	V6B0805		VBLK6F	5mL	—	OK	✓	✓	
		43	V6L0805	A	V6FLCS	5mL	—	OK - none out	✓	✓	
		44	V6B0805	B	~~V6LKDG~~ VBLK6G	10mL/5mL	—	OK - Low TRA 8/6/03	✓	✓	
		45	V6L0805	B	~~V6LCS~~ V6LCS		—	OK - low	✓	✓	
		46	B1248-	02A	SS-01		—	OK	✓	✓	
		47	B1248-	03AD	SS-30DL		2.5	OK - PCEE 140	✓	✓	
		48	B1248-	01AD	SS-18DL	10mL/5mL	40	OK - PCEE 200	✓	✓	
		49	B1240-	01A	ASI-1	25mL	—	OK	✓	AIR	
		50	B1240-	02A	ASI-2	25mL	—	OK	✓	AIR	
		51	B1240-	03A	ASE-1	25mL	—	OK	✓	AIR	
		52	B1247-	01A	MW-OTHERS	5mL	—	OK	✓	✓	<2
		53	V6B0805	A	VBLK6F		—	OK	✓	✓	
		54	B1253-	06A	TRIP BLANK		—	OK	✓	✓	<2
		55		01D	ML-5A		—	OK	✓	✓	
		56		02D	WE-6B		—	OK	✓	✓	
		57		03D	MW-50		—	OK	✓	✓	
		58		04D	MW-81A		—	OK	✓	✓	
		59	B1253-	05D	MW-30		—	OK	✓	✓	<2
	V6C81	60	CCV		CCV	5mL	—	OK 20:32	✓	✓	

TRA 8/6/03

Logbook ID 90.0200-5/03 Reviewed By: YD 8/6/03 Logbook page: 051

0072

MITKEM CORPORATION: VOLATILES RECEIVING LOGBOOK

VOA Log-In Date	Workorder	Client	Sample Numbers	Relinquished By	Comments
8/2/03	B1248		01-03	TRA	R9
8-4-03	B1247	HRP	01	M	R10
8-4-03	B1251	VRS	01	M	R10
8-5-03	B1253	CDM/GZA	01-06	M	R10
8/6/03	B1253	CDM/GZA	07-13	TRA	R10
8/7/03	B1253	CDM/GZA	14,15	TRA	R10
	B1258	WATER	01-03	TRA	R10
	B1259	DVIRKA	01-04	TRA	R10
8/7/03	B1265	HANDEX	01-04	TRA	R10
8/8/03	B1270	TYREE	03,04,01,02,05,06	TRA	R9
8/8/03	B1251	VRS	02	TRA	R10
8/8/03	B1253	CDM/GZA	16-20 83 TRA 8/6/03	TRA	R10 VIAL 17 BOTTLE #2 RECEIVED EMPTY TRP BLK
8/8/03	B1261	Shaw	01	Y/n	R10
8/12/03	B1253	CDM	24-30	TRA	R10
8/12/03	B1272	FW	01-03	TRA	R4
8/12/03	B1276	CDM	01-03	TRA	R9

Logbook ID 90.0191-6/03 Reviewed By: Page Number

0073
0008

Last Page of Data Report

con-test
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL 413/525-2332

REPORT DATE 1/11/2007

HRP ASSOCIATES, INC. (PRIVATE)
197 SCOTT SWAMP ROAD
FARMINGTON, CT 06032
ATTN: ALEXIS DALLAPORTAS

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: S-CT-00387

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-02887
JOB NUMBER: HOW0018.HG

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: NORWALK, CT

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
TB-01	07B00062	SOIL	NOT SPECIFIED	etph dry weight
TB-01	07B00062	SOIL	NOT SPECIFIED	solids (percent)
TB-02	07B00063	SOIL	NOT SPECIFIED	etph dry weight
TB-02	07B00063	SOIL	NOT SPECIFIED	solids (percent)
TB-03	07B00064	SOIL	NOT SPECIFIED	etph dry weight
TB-03	07B00064	SOIL	NOT SPECIFIED	solids (percent)
TB-04	07B00065	SOIL	NOT SPECIFIED	etph dry weight
TB-04	07B00065	SOIL	NOT SPECIFIED	solids (percent)
TB-04MS/MSD	07B00066	SOIL	NOT SPECIFIED	etph dry weight
TB-04MS/MSD	07B00066	SOIL	NOT SPECIFIED	solids (percent)
TB-05	07B00067	SOIL	NOT SPECIFIED	etph dry weight
TB-05	07B00067	SOIL	NOT SPECIFIED	solids (percent)
TB-06	07B00068	SOIL	NOT SPECIFIED	etph dry weight
TB-06	07B00068	SOIL	NOT SPECIFIED	solids (percent)
TB-07	07B00069	SOIL	NOT SPECIFIED	etph dry weight
TB-07	07B00069	SOIL	NOT SPECIFIED	solids (percent)
TB-08	07B00070	SOIL	NOT SPECIFIED	etph dry weight
TB-08	07B00070	SOIL	NOT SPECIFIED	solids (percent)
TB-09	07B00071	SOIL	NOT SPECIFIED	etph dry weight
TB-09	07B00071	SOIL	NOT SPECIFIED	solids (percent)
TB-11	07B00072	SOIL	NOT SPECIFIED	etph dry weight
TB-11	07B00072	SOIL	NOT SPECIFIED	solids (percent)
TB-12	07B00073	SOIL	NOT SPECIFIED	etph dry weight
TB-12	07B00073	SOIL	NOT SPECIFIED	solids (percent)
TB-12MS/MSD	07B00074	SOIL	NOT SPECIFIED	etph dry weight
TB-12MS/MSD	07B00074	SOIL	NOT SPECIFIED	solids (percent)
TB-13	07B00075	SOIL	NOT SPECIFIED	etph dry weight
TB-13	07B00075	SOIL	NOT SPECIFIED	solids (percent)
TB-14	07B00076	SOIL	NOT SPECIFIED	etph dry weight
TB-14	07B00076	SOIL	NOT SPECIFIED	solids (percent)
TB-15	07B00077	SOIL	NOT SPECIFIED	etph dry weight
TB-15	07B00077	SOIL	NOT SPECIFIED	solids (percent)

con-test
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL 413/525-2332

REPORT DATE 1/11/2007

HRP ASSOCIATES, INC. (PRIVATE)
197 SCOTT SWAMP ROAD
FARMINGTON, CT 06032
ATTN: ALEXIS DALLAPORTAS

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: S-CT-00387

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-02887
JOB NUMBER: HOW0018.HG

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

Comments :

LIMS BATCH NO. : LIMT-02887

CASE NARRATIVE SUMMARY

THERE ARE NO ANALYTICAL ISSUES WHICH AFFECT THE USABILITY OF THE DATA

DETAILED CASE NARRATIVE

CT ETPH METHOD

RECOMMENDED SAMPLE HOLDING TIMES WERE NOT EXCEEDED FOR ALL SAMPLES ANALYZED BY THE CT ETPH METHOD UNLESS LISTED BELOW: NONE EXCEEDED

ALL SAMPLES FOR THE CT ETPH METHOD WERE RECEIVED PRESERVED PROPERLY IN THE PROPER CONTAINERS AT 4 DEGREES +/- 2 DEGREES C, AS SPECIFIED ON THE CHAIN-OF-CUSTODY FORM UNLESS LISTED BELOW: ALL PROPERLY PRESERVED

THE CT ETPH METHOD BLANK WAS FOUND NOT TO BE CONTAMINATED AT LEVELS ABOVE THE REPORTING LIMIT EXCEPT WHERE LISTED BELOW: NO CONTAMINATION NOTED

INITIAL AND CONTINUING CALIBRATIONS MET ALL REQUIRED PERFORMANCE STANDARDS FOR THE CT ETPH METHOD EXCEPT AS LISTED BELOW: ALL STANDARDS MET

RESPONSE FACTORS FOR ALL COMPONENT STANDARDS IN THE CURRENT CALIBRATION VERIFICATION WERE WITHIN 20% OF THE AVERAGE RESPONSE FACTOR UNLESS LISTED BELOW
ALL WITHIN 20% + DISCRIMINATION CHECK PASSED

LCS RECOVERY FOR CT ETPH WAS WITHIN CONTROL LIMITS UNLESS LISTED BELOW:
WITHIN CONTROL LIMITS

THE SURROGATE STANDARD RECOVERIES WERE WITHIN CONTROL LIMITS UNLESS LISTED BELOW.
NONE OUTSIDE OF CONTROL LIMITS

ETPH MS AND MSD RECOVERIES AND MATRIX SPIKE DUPLICATE RPD, IF REQUESTED IN THIS BATCH, WERE WITHIN CONTROL LIMITS SPECIFIED BY THE METHOD UNLESS LISTED BELOW:

MS/MSD PERFORMED FOR SAMPLE 07B00066 AND 07B00074.

ALL ETPH SAMPLES WERE ANALYZED UNDILUTED UNLESS SPECIFIED BELOW:
NO DILUTIONS WERE PERFORMED

ALL REPORTING LIMITS SPECIFIED ON THE CHAIN-OF-CUSTODY WERE MET UNLESS LISTED BELOW:
ALL REQUESTED LIMITS WERE MET.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

AIHA 100033 AIHA ELLAP (LEAD) 100033
MASSACHUSETTS MA0100 NEW HAMPSHIRE NELAP 2516 NEW JERSEY NELAP NJ MA007 (AIR)

con-test
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL 413/525-2332

REPORT DATE 1/11/2007

HRP ASSOCIATES, INC. (PRIVATE)
197 SCOTT SWAMP ROAD
FARMINGTON, CT 06032
ATTN: ALEXIS DALLAPORTAS

CONTRACT NUMBER:
PURCHASE ORDER NUMBER: S-CT-00387

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-02887
JOB NUMBER: HOW0018.HG

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

CONNECTICUT PH-0567 VERMONT DOH (LEAD) No. LL015036
NEW YORK ELAP/NELAP 10899 RHODE ISLAND (LIC. No. 112)

I certify that the analyses listed above, unless specifically noted as subcontracted, were performed under my direction according to the approved methodologies listed in this document and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Sondra L. Stewart, Technical Representative — Sondra L. Stewart, Director of Operations — Sondra L. Stewart, Quality Assurance Officer

SIGNATURE DATE

Sondra Clyman
Technical Director

* See end of data tabulation for notes and comments pertaining to this sample

con-test
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL 413/525-2332

ALEXIS DALLAPORTAS
HRP ASSOCIATES, INC. (PRIVATE)
197 SCOTT SWAMP ROAD
FARMINGTON, CT 06032

1/11/2007

Purchase Order No: S-CT-00387

Project Location: NORWALK, CT
Date Received: 1/2/2007
Field Sample # : TB-01
Sample ID: 07B00062 — Sampled: 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

LIMS-BAT #: LIMT-02887
Job Number: HOW0018.HG

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Extractable TPH (ETPH)	mg/kg dry weight	ND	01/09/07	JB	12			

Field Sample # TB-02
Sample ID 07B00063 — Sampled: 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Extractable TPH (ETPH)	mg/kg dry weight	20.	01/09/07	JB	15			

Field Sample # TB-03
Sample ID : 07B00064 — Sampled: 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Extractable TPH (ETPH)	mg/kg dry weight	13.	01/09/07	JB	11			

Field Sample # TB-04
Sample ID : 07B00065 — Sampled: 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Extractable TPH (ETPH)	mg/kg dry weight	ND	01/09/07	JB	11.			

Field Sample # : TB-04MS/MSD
Sample ID 07B00066 — Sampled: 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Extractable TPH (ETPH)	mg/kg dry weight	ND	01/09/07	JB	12.			

RL = Reporting Limit
ND = Not Detected at or above the Reporting Limit
NM = Not Measured
* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ALEXIS DALLAPORTAS
HRP ASSOCIATES, INC. (PRIVATE)
197 SCOTT SWAMP ROAD
FARMINGTON, CT 06032

1/11/2007

Purchase Order No.. S-CT-00387

Project Location: NORWALK, CT
Date Received: 1/2/2007
Field Sample #: TB-05

LIMS-BAT #: LIMT-02887
Job Number: HOW0018.HG

Sample ID: 07B00067 Sampled 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Extractable TPH (ETPH)	mg/kg dry weight	21.	01/09/07	JB	11.			

Field Sample #: TB-06
Sample ID: 07B00068 Sampled 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Extractable TPH (ETPH)	mg/kg dry weight	ND	01/09/07	JB	13.			

Field Sample #: TB-07
Sample ID 07B00069 Sampled 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Extractable TPH (ETPH)	mg/kg dry weight	ND	01/09/07	JB	13.			

Field Sample #: TB-08
Sample ID 07B00070 Sampled 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Extractable TPH (ETPH)	mg/kg dry weight	ND	01/09/07	JB	16			

Field Sample #: TB-09
Sample ID: 07B00071 Sampled 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Extractable TPH (ETPH)	mg/kg dry weight	61.	01/09/07	JB	17			

RL = Reporting Limit
ND = Not Detected at or above the Reporting Limit
NM = Not Measured
* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ALEXIS DALLAPORTAS
HRP ASSOCIATES, INC. (PRIVATE)
197 SCOTT SWAMP ROAD
FARMINGTON, CT 06032

1/11/2007

Purchase Order No.. S-CT-00387

Project Location: NORWALK, CT
Date Received: 1/2/2007
Field Sample #: TB-11

LIMS-BAT #: LIMT-02887
Job Number: HOW0018.HG

Sample ID: 07B00072 Sampled 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Extractable TPH (ETPH)	mg/kg dry weight	ND	01/09/07	JB	12.			

Field Sample #: TB-12
Sample ID: 07B00073 Sampled 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Extractable TPH (ETPH)	mg/kg dry weight	ND	01/09/07	JB	11.			

Field Sample #: TB-12MS/MSD
Sample ID 07B00074 Sampled 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Extractable TPH (ETPH)	mg/kg dry weight	ND	01/09/07	JB	11.			

Field Sample #: TB-13
Sample ID 07B00075 Sampled 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Extractable TPH (ETPH)	mg/kg dry weight	ND	01/09/07	JB	13			

Field Sample #: TB-14
Sample ID: 07B00076 Sampled 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Extractable TPH (ETPH)	mg/kg dry weight	ND	01/09/07	JB	13			

RL = Reporting Limit
ND = Not Detected at or above the Reporting Limit
NM = Not Measured
* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ALEXIS DALLAPORTAS
HRP ASSOCIATES, INC. (PRIVATE)
197 SCOTT SWAMP ROAD
FARMINGTON, CT 06032

1/11/2007

Purchase Order No S-CT-00387

Project Location: NORWALK, CT
Date Received: 1/2/2007
Field Sample #: TB-15

LIMS-BAT #: LIMT-02887
Job Number: HOW0018.HG

Sample ID 07B00077 Sampled 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Extractable TPH (ETPH)	mg/kg dry weight	ND	01/09/07	JB	12			

Analytical Method
Extractable TPH (CT ETPH)
SAMPLES ARE EXTRACTED INTO METHYLENE CHLORIDE AND ANALYZED BY GAS CHROMATOGRAPHY WITH FLAME IONIZATION DETECTION (GC/FID).

RL = Reporting Limit
ND = Not Detected at or above the Reporting Limit
NM = Not Measured
* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ALEXIS DALLAPORTAS
HRP ASSOCIATES, INC. (PRIVATE)
197 SCOTT SWAMP ROAD
FARMINGTON, CT 06032

1/11/2007

Purchase Order No S-CT-00387

Project Location: NORWALK, CT
Date Received: 1/2/2007
Field Sample #: TB-01

LIMS-BAT #: LIMT-02887
Job Number: HOW0018.HG

Sample ID 07B00062 Sampled 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Solids, total	%	85.2	01/08/07	MAM				

Field Sample #: TB-02
Sample ID 07B00063 Sampled 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Solids, total	%	88.4	01/08/07	MAM				

Field Sample #: TB-03
Sample ID: 07B00064 Sampled 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Solids, total	%	93.5	01/08/07	MAM				

Field Sample #: TB-04
Sample ID: 07B00065 Sampled 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Solids, total	%	91.3	01/08/07	MAM				

Field Sample #: TB-04MS/MSD
Sample ID 07B00066 Sampled 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Solids, total	%	88.7	01/08/07	MAM				

RL = Reporting Limit
ND = Not Detected at or above the Reporting Limit
NM = Not Measured
* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ALEXIS DALLAPORTAS
HRP ASSOCIATES, INC. (PRIVATE)
197 SCOTT SWAMP ROAD
FARMINGTON, CT 06032

1/11/2007

Purchase Order No.. S-CT-00387

Project Location: NORWALK, CT
Date Received: 1/2/2007
Field Sample #: TB-05

LIMS-BAT #: LIMT-02887
Job Number: HOW0016.HG

Sample ID: 07B00067 Sampled 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Solids, total	%	98.5	01/03/07	MAM				

Field Sample #: TB-06
Sample ID: 07B00068 Sampled 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Solids, total	%	77.8	01/03/07	MAM				

Field Sample #: TB-07
Sample ID 07B00069 Sampled 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Solids, total	%	92.3	01/03/07	MAM				

Field Sample #: TB-08
Sample ID 07B00070 Sampled 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Solids, total	%	83.7	01/08/07	MAM				

Field Sample #: TB-09
Sample ID: 07B00071 Sampled 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Solids, total	%	58.8	01/08/07	MAM				

RL = Reporting Limit
ND = Not Detected at or above the Reporting Limit
NM = Not Measured
* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ALEXIS DALLAPORTAS
HRP ASSOCIATES, INC. (PRIVATE)
197 SCOTT SWAMP ROAD
FARMINGTON, CT 06032

1/11/2007

Purchase Order No.. S-CT-00387

Project Location: NORWALK, CT
Date Received: 1/2/2007
Field Sample #: TB-11

LIMS-BAT #: LIMT-02887
Job Number: HOW0016.HG

Sample ID: 07B00072 Sampled 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Solids, total	%	97.6	01/03/07	MAM				

Field Sample #: TB-12
Sample ID: 07B00073 Sampled 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Solids, total	%	92.7	01/03/07	MAM				

Field Sample #: TB-12MS/MSD
Sample ID 07B00074 Sampled 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Solids, total	%	91.2	01/03/07	MAM				

Field Sample #: TB-13
Sample ID 07B00075 Sampled 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Solids, total	%	82.9	01/08/07	MAM				

Field Sample #: TB-14
Sample ID: 07B00076 Sampled 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Solids, total	%	82.7	01/08/07	MAM				

RL = Reporting Limit
ND = Not Detected at or above the Reporting Limit
NM = Not Measured
* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ALEXIS DALLAPORTAS
HRP ASSOCIATES, INC. (PRIVATE)
197 SCOTT SWAMP ROAD
FARMINGTON, CT 06032

1/11/2007

Purchase Order No. S-CT-00387

Project Location: NORWALK, CT
Date Received: 1/2/2007
Field Sample #: TB-15

LIMS-BAT #: LIMT-02887
Job Number: HOW0016.HG

Sample ID 07B00077 Sampled 12/29/2006 NOT SPECIFIED
Sample Matrix: SOIL

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo	SPEC Limit Hi	P/F
Solids, total	%	85.3	01/08/07	MAM				

Analytical Method
SM 2540G
PERCENT OF SAMPLE REMAINING AFTER DRYING OVERNIGHT AT 103-105 DEGREES CENTIGRADE.

RL = Reporting Limit
ND = Not Detected at or above the Reporting Limit
NM = Not Measured
* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ALEXIS DALLAPORTAS
HRP ASSOCIATES, INC. (PRIVATE)
197 SCOTT SWAMP ROAD
FARMINGTON, CT 06032

1/11/2007

Purchase Order No. S-CT-00387

Project Location: NORWALK, CT
Date Received: 1/2/2007

LIMS-BAT #: LIMT-02887
Job Number: HOW0016.HG

** END OF REPORT **

RL = Reporting Limit
ND = Not Detected at or above the Reporting Limit
NM = Not Measured
* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL 413/525-2332

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates; Sample Matrix Spikes and Matrix Spike Duplicates
BATCH QC: Lab Fortified Blanks and Duplicates; Standard Reference Materials and Duplicates; Method Blanks

QC Batch Number: GC/FID-17248

Sample Id	Analytes	QC Analytes	Values	Units	Limits
07B00082					
	Terphenyl	Surrogate Recovery	87.0	%	50-150
07B00083					
	Terphenyl	Surrogate Recovery	85.0	%	50-150
07B00084					
	Terphenyl	Surrogate Recovery	85.0	%	50-150
07B00085					
	Terphenyl	Surrogate Recovery	57.0	%	50-150
07B00086					
	Extractable TPH (ETPH)	Sample Amount	<12	mg/kg dry weg	
		Matrix Spk Amt Added	38.4	mg/kg dry weg	
		MS Amt Measured	32.2	mg/kg dry weg	
		Matrix Spike % Rec.	83.7	%	50-150
		MSD Amount Added	38.4	mg/kg dry weg	
		MSD Amt Measured	37.7	mg/kg dry weg	
		MSD % Recovery	98.2	%	50-150
		MSD Range	14.5	units	
		MS Duplicate RPD	15.9	%	0-30
	Terphenyl	Surrogate Recovery	80.0	%	50-150
07B00087					
	Terphenyl	Surrogate Recovery	89.0	%	50-150
07B00088					
	Terphenyl	Surrogate Recovery	83.0	%	50-150
07B00089					
	Terphenyl	Surrogate Recovery	83.0	%	50-150
07B00070					
	Terphenyl	Surrogate Recovery	80.0	%	50-150
07B00071					
	Terphenyl	Surrogate Recovery	55.0	%	50-150
07B00072					
	Terphenyl	Surrogate Recovery	50.0	%	50-150
07B00073					
	Terphenyl	Surrogate Recovery	88.0	%	50-150
07B00074					
	Extractable TPH (ETPH)	Sample Amount	<11.	mg/kg dry weg	
		Matrix Spk Amt Added	38.8	mg/kg dry weg	
		MS Amt Measured	27.8	mg/kg dry weg	
		Matrix Spike % Rec.	75.4	%	50-150
		MSD Amount Added	38.8	mg/kg dry weg	
		MSD Amt Measured	25.1	mg/kg dry weg	
		MSD % Recovery	68.7	%	50-150
		MSD Range	6.7	units	
		MS Duplicate RPD	9.3	%	0-30
	Terphenyl	Surrogate Recovery	54.0	%	50-150

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL 413/525-2332

QC SUMMARY REPORT
SAMPLE QC: Sample Results with Duplicates; Sample Matrix Spikes and Matrix Spike Duplicates
BATCH QC: Lab Fortified Blanks and Duplicates; Standard Reference Materials and Duplicates; Method Blanks

QC Batch Number: GC/FID-17248

Sample Id	Analytes	QC Analytes	Values	Units	Limits
07B00075					
	Terphenyl	Surrogate Recovery	85.0	%	50-150
07B00076					
	Terphenyl	Surrogate Recovery	89.0	%	50-150
07B00077					
	Terphenyl	Surrogate Recovery	81.0	%	50-150
BLANK-97248					
	Extractable TPH (ETPH)	Blank	<11.	mg/kg dry weg	
LFBLANK-58839					
	Extractable TPH (ETPH)	Lab Fort Blank Amt.	35.1	mg/kg dry weg	
		Lab Fort Blk. Found	22.5	mg/kg dry weg	
		Lab Fort Blk. % Rec.	64.1	%	60-120
		Dup Lab Fort Bl Amt.	35.1	mg/kg dry weg	
		Dup Lab Fort Bl Fnd	25.1	mg/kg dry weg	
		Dup Lab Fort Bl %Rec	71.5	%	
		Lab Fort Blank Range	7.4	units	
		Lab Fort Bl. Av. Rec	67.8	%	
		LFB Duplicate RPD	10.9	%	

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL 413/525-2332

QC SUMMARY REPORT
SAMPLE QC: Sample Results with Duplicates; Sample Matrix Spikes and Matrix Spike Duplicates
BATCH QC: Lab Fortified Blanks and Duplicates; Standard Reference Materials and Duplicates; Method Blanks

QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER	This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS	Upper and Lower Control Limits for the QC ANALYSIS reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount	Amount of analyte found in a sample.
Blank	Method Blank that has been taken through all the steps of the analysis.
LFBLANK	Laboratory Fortified Blank (a control sample)
STDADD	Standard Added (a laboratory control sample)
Matrix Spk Amt Added MS Amt Measured Matrix Spike % Rec.	Amount of analyte spiked into a sample Amount of analyte found including amount that was spiked % Recovery of spiked amount in sample.
Duplicate Value Duplicate RPD	The result from the Duplicate analysis of the sample. The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery	The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD) Sur. Recovery (PID)	Surrogate Recovery on the Electrolytic Conductivity Detector. Surrogate Recovery on the Photoionization Detector.
Standard Measured Standard Amt Added Standard % Recovery	Amount measured for a laboratory control sample Known value for a laboratory control sample % recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt Lab Fort Blk. Found Lab Fort Blk % Rec Dup Lab Fort Bl Amt Dup Lab Fort Bl Fnd Dup Lab Fort Bl % Rec Lab Fort Blank Range	Laboratory Fortified Blank Amount Added Laboratory Fortified Blank Amount Found Laboratory Fortified Blank % Recovered Duplicate Laboratory Fortified Blank Amount Added Duplicate Laboratory Fortified Blank Amount Found Duplicate Laboratory Fortified Blank % Recovery Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec.	Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt MSD Amount Added MSD Amt Measured MSD % Recovery MSD Range	Sample Value for Duplicate used with Matrix Spike Duplicate Matrix Spike Duplicate Amount Added (Spiked) Matrix Spike Duplicate Amount Measured Matrix Spike Duplicate % Recovery Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries

Laboratory Analysis
QA/QC Certification Form

HRP Associates, Inc.

Laboratory Name: Con-Test Analytical Laboratory *Client:* LIMIT - 02887

Project Location: Norwalk, CT *Project Number:*

Sampling Date(s): 12/29/06

Laboratory Sample ID(s): 07B00082 - 07B00077

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed (including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents)?	☒Yes ☐ No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☒Yes ☐ No
3	Were samples received at an appropriate temperature (4° C ± 2°)?	☒Yes ☐ No
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	☒Yes ☐ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	☒Yes ☐ No ☒Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☒Yes ☐ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☒Yes ☐ No

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1 is "No", the data package does not meet the requirements for "Reasonable Confidence."

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Sandra L. Slesinski **Position: Quality Assurance Officer**

Printed Name: Sandra L. Slesinski **Date:** 01/11/07

con-test® ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

CHAIN OF CUSTODY RECORD

Page 2 of 3

Limit - 07887

Company Name: HRP
Address: 197 Scott Swamp Rd. Farmington, CT 06032
Attention: Alexis Dallapertas
Project Location: Norwalk, CT
Sampled By: SRP

Telephone: 860 674-9570
Project #: HOW0016.HG
Client PO #:

DATA DELIVERY (check one):
☐FAX ☒EMAIL ☐WEBSITE CLIENT
Fax #:
Email: alexis.dallapertas@chpaspecialists.com
Format: ☒EXCEL ☒PDF ☐GIS KEY ☐OTHER

Proposal Provided? (For Billing purposes) ☐ yes ____ proposal date
State Form Required? ☐ yes ☒ no

ANALYSIS REQUESTED

SETPH

Field ID	Sample Description	Lab # 07B	Start Date/Time	Stop Date/Time	Composite	Grab	*Matrix Code	Conc. Code
TB-8	Soil, grab (39-45)	00070	12/29/06	10.48		X	S	U
TB-9	("	00071		11.00				
TB-10	(29-36)			11.35				
TB-11	(1.3-1.9')	00072		11.45				
TB-12	(1.3-2')	00073		12.35				
TB-12 MS/MSD	(1.3-2')	00074		12.45				
TB-13	(1.2-1.9)	00075		12.55				
TB-14	(1.8-2.2)	00076		1.05				

Laboratory Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in **Matrix/Conc.** Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Client Comments: * only 1 jar for the samples

Relinquished by: (signature)	Date/Time:	Received by: (signature)	Date/Time:
	12/29/06 10:52		
	12/29/06 2		
	12/29/06 4:45		
	12/30/06 445		3.5°C

Turnaround **: ☒ 7-Day ☐ 10-Day ☐ Other ____ **RUSH *** ☐ *24-Hr ☐ *48-Hr ☐ *72-Hr ☐ *4-Day * Require lab approval

Detection Limit Requirements: Regulations? RSR, GB, Res Dec, Res VC
Data Enhancement Project/RCP? ☒Y ☐N
Special Requirements or DL's:

Matrix Codes: GW = groundwater; WW = wastewater; DW = drinking water; A = air; S = soil/solid; SL = sludge; O = other

Preservation Codes: I = Iced; H = HCL; M = Methanol; N = Nitric Acid; S = Sulfuric Acid; B = Sodium bisulfate; O = Other; X = Na hydroxide; T = Na thiosulfate

(W)

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAC & WBE/DBE Certifiec

39 Spruce Street
East Longmeadow, MA
Phone: 1-413-525-2332
Fax: 1-413-525-6405

www.contestlabs.com

con-test® ANALYTICAL LABORATORY

SAMPLE RECEIPT CHECKLIST

CLIENT NAME: HRP
RECEIVED BY: WMC
DATE: 12/29/06 1267

1. Was chain of custody relinquished and signed?	YES	NO
2. Does Chain agree with samples?	YES	NO
If not, explain:		
3. All Samples in good condition?	YES	NO
If not, explain:		
4. Were samples received in compliance with Temperature 0-6 degrees C?	YES	NO
5. Are all soil vph & voc samples covered with preservation?	YES	NO
6. Are there any dissolved samples for the lab to filter?	YES	NO
Who was notified? Date: Time:		
6. Are there any on hold samples?	YES	NO
7. Laboratory analysts notified?	YES	NO
Who Date Time		
8. Location where samples are stored:		

Degrees: 2.5°C

CONTAINERS SENT TO CON-TEST	# of containers
Air Cassettes	
8 oz clear jar	11
4 oz clear jar	
2 oz clear jar	
Plastic bag	
Encore	
Brass Sleeves	
Tubes	
Summa cans	
Other	

CONTAINERS SENT IN TO CON-TEST	# of containers
1 liter amber	
500 ml amber	
250 ml amber (8oz. Amber)	4
1 liter plastic	
500 ml plastic	
250 ml plastic	
40 ml vial	
Collsure bottle	
Dissolved oxygen bottle	
Flashpoint bottle	

Laboratory comments:

Do all the samples have the correct pH levels? YES NO If no, please explain below:

con-test® ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

CHAIN OF CUSTODY RECORD

Page 1 of 3

Limit - 07887

Company Name: HRP
Address: 197 Scott Swamp Rd. Farmington, CT 06032
Attention: Alexis Dallapertas
Project Location: Norwalk, CT
Sampled By: SRP

Telephone: 860 674-9570
Project #: HOW0016.HG
Client PO #:

DATA DELIVERY (check one):
☐FAX ☒EMAIL ☐WEBSITE CLIENT
Fax #:
Email: alexis.dallapertas@chpaspecialists.com
Format: ☒EXCEL ☒PDF ☐GIS KEY ☐OTHER

Proposal Provided? (For Billing purposes) ☐ yes ____ proposal date
State Form Required? ☐ yes ☒ no

ANALYSIS REQUESTED

SETPH

Field ID	Sample Description	Lab # 07B	Start Date/Time	Stop Date/Time	Composite	Grab	*Matrix Code	Conc. Code
TB-1	Soil grab (2-2.5)	00067	12/29/06	9.10		X	S	U
TB-2	(28-34)	00063		9.20				
TB-3	(1.7-2.5)	00064		9.30				
TB-4	(2.2-2.8')	00065		9.45				
TB-4 MS/MSD	(2.3-3.8)	00066		9.55				
TB-5	(2.5-5')	00067		10.15				
TB-6	(2.8-3.3)	00068		10.23				
TB-7	(2.5-2.9)	00069		10.30				

Laboratory Comments:
1/4 spoke to client - Do not put in depths they do not match w/ JMRS.

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in **Matrix/Conc.** Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Client Comments: * only 1 jar for these samp

Relinquished by: (signature)	Date/Time:	Received by: (signature)	Date/Time:
	12/29/06 10:52		
	12/29/06 2		
	12/29/06 4:45		
	12/30/06 445		3.5°C

Turnaround **: ☒ 7-Day ☐ 10-Day ☐ Other ____ **RUSH *** ☐ *24-Hr ☐ *48-Hr ☐ *72-Hr ☐ *4-Day * Require lab approval

Detection Limit Requirements: Regulations? RSR, GB, Res Dec, Res VC
Data Enhancement Project/RCP? ☒Y ☐N
Special Requirements or DL's:

Matrix Codes: GW = groundwater; WW = wastewater; DW = drinking water; A = air; S = soil/solid; SL = sludge; O = other

Preservation Codes: I = Iced; H = HCL; M = Methanol; N = Nitric Acid; S = Sulfuric Acid; B = Sodium bisulfate; O = Other; X = Na hydroxide; T = Na thiosulfate

(W)

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAC & WBE/DBE Certifiec

con-test® ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

CHAIN OF CUSTODY RECORD

Page 3 of 3

Limit - 07887

Company Name: HRP
Address: 197 Scott Swamp Rd. Farmington, CT 06032
Attention: Alexis Dallapertas
Project Location: Norwalk, CT
Sampled By: SRP

Telephone: 860 674-9570
Project #: HOW0016.HG
Client PO #:

DATA DELIVERY (check one):
☐FAX ☒EMAIL ☐WEBSITE CLIENT
Fax #:
Email: alexis.dallapertas@chpaspecialists.com
Format: ☒EXCEL ☒PDF ☐GIS KEY ☐OTHER

Proposal Provided? (For Billing purposes) ☐ yes ____ proposal date
State Form Required? ☐ yes ☒ no

ANALYSIS REQUESTED

SETPH

Field ID	Sample Description	Lab # 07B	Start Date/Time	Stop Date/Time	Composite	Grab	*Matrix Code	Conc. Code
TB-15	Soil Grab (1.4-2')	00077	12/29/06	1.15		X	S	U

Laboratory Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in **Matrix/Conc.** Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Client Comments:

Relinquished by: (signature)	Date/Time:	Received by: (signature)	Date/Time:
	12/29/06 10:52		
	12/29/06 2		
	12/29/06 4:45		
	12/30/06 445		3.5°C

Turnaround **: ☐ 7-Day ☐ 10-Day ☐ Other ____ **RUSH *** ☐ *24-Hr ☐ *48-Hr ☐ *72-Hr ☐ *4-Day * Require lab approval

Detection Limit Requirements: Regulations? RSR, GB, Res Dec, Res VC
Data Enhancement Project/RCP? ☒Y ☐N
Special Requirements or DL's:

Matrix Codes: GW = groundwater; WW = wastewater; DW = drinking water; A = air; S = soil/solid; SL = sludge; O = other

Preservation Codes: I = Iced; H = HCL; M = Methanol; N = Nitric Acid; S = Sulfuric Acid; B = Sodium bisulfate; O = Other; X = Na hydroxide; T = Na thiosulfate

(W)

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAC & WBE/DBE Certifiec

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

December ,

Robin ox
HRP Associates, Inc. (Private)
cott wamp Road
Farmington, CT 32

Project ocation: Howe urniture
Client Job umber:
Project umber: HO P3 T-
Laboratory ork rder umber: I0 5

Enclosed are results of analyses for samples received by the laboratory on eptember , If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Christopher J. Hall
Project anager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

HRP Associates, Inc. (Private)
cott wamp Road
Farmington, CT 32
ATTN Robin ox

REPORT DATE: 1 9

PURCHASE RDER ER: CT- 31

PROJECT ER: HO P3 T-

ICA SUMMA Y

RK RDER ER: I0 5

The results of analyses performed on the following samples submitted to the CO TEST Analytical aboratory are found in this report.

PROJECT CATIO : Howe urniture

IELD AMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	S AB
M 2	I0 1	round ater	Monitor ell	S B	
				S A	
				S B	
M 9	I0 2	round ater	Monitor ell	S B	
				S A	
				S B	
M 3	9I0 3	Ground ater	Monitor ell	S B	
				S A	
				S A	
				S B	
M D	9I0 4	round ater	Monitor ell	S B	
				S A	
				S A	
				S B	
M M	I0 5	round ater	Monitor ell	S B	
				S A	
				S A	
				S B	
M 2	I0 6	round ater	Monitor ell	S B	
				S A	
				S A	
				S B	
M 3	I0	round ater	onitor ell	S B	
				S A	
				S A	
				S B	
M 4	I0 8	round ater	Monitor ell	S B	
				S A	
				S A	
				S B	
M y others	9I0 9	round ater	Monitor ell	S B	
				S A	
				S A	
				S B	
TB 1	I0 0	Trip lank ater	Monitor ell	S B	
EB 1	I0 1	Equipment lank ater	Monitor ell	S B	
				S A	
				S A	
				S B	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE IVE SUMMA Y

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

In method , only RCRA metals were requested and reported.
In method , only As and Pb were requested and reported.

Revised report with Vinyl Chloride reporting limit lowered to meet proposed residential volatile criteria, calibration within criteria to lower level.

Revised report for Arsenic and ead for samples 3 to and with samples re-preped and analyzed by ICP/ for lower reporting limits

SW- 260B

Qualifications:

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two CS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Bromoform
32 D1

Continuing calibration did not meet method specifications and was biased on the low side for this compound. ignificant uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

2,2-Dichloropropane
9I0 [M], I0 [M], I0 3[M 3], I0 [M D], I0 [M], I0 [M], I0 [MW-1 3],
9I0 [M], I0 [M y others], I0 [TB], I0 [EB], 32 K1, 32 , 32 D1

SW- 260B

The CS recoveries for required CT reasonable confidence protocol (RCP) compounds were all within limits specified by the method except for "difficult analytes" where control limits somewhere between % are used and/or unless otherwise listed in this narrative: Difficult analytes: IBK, EK, Tert-butyl Alcohol, Acetone, ,4 Dioxane, Vinyl Chloride, Chloromethane, Dichlorodifluoromethane, Hexanone, aphthalene, romomethane, ,2 Dichloropropane and Tetrachloroethylene.
All reporting limits specified on the chain-of-custody were met except for Acrylonitrile, where the most protective criteria are not met since the laboratory cannot achieve the required RCP calibration criteria at these levels, unless otherwise listed in this narrative.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical aboratory for testing
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture
Date Received: 9
Field Sample #: MW-2
Sample ID: 0910595-01
Sample Matrix: Ground Water

Sample Description: Monitor ell
Sampled: 39

ork rder: I0 5

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	5.0	µ L	1		S B	9 9 9	8	MFF
Acrylonitrile	ND	2.0	µ L	1		S B	9 9 9	8	MFF
Benzene	ND	0 0	µ L	1		S B	9 9 9	8	MFF
Bromobenzene	ND	0 0	µ L	1		S B	9 9 9	8	MFF
Bromodichloromethane	ND	0 0	µ L	1		S B	9 9 9	8	MFF
Bromoform	ND	3.0	µ L	1		S B	9 9 9	8	MFF
Bromomethane	ND	4.0	µ L	1		S B	9 9 9	8	MFF
2 utanone (MEK)	ND	2.0	µ L	1		S B	9 9 9	8	MFF
n- utylbenzene	ND	1.0	µ L	1		S B	9 9 9	8	MFF
sec- utylbenzene	ND	1.0	µ L	1		S B	9 9 9	8	MFF
tert- utylbenzene	ND	1.0	µ L	1		S B	9 9 9	8	MFF
Carbon Disulfide	ND	7.0	µ L	1		S B	9 9 9	8	MFF
Carbon Tetrachloride	ND	1.0	µ L	1		S B	9 9 9	8	MFF
Chlorobenzene	ND	0 0	µ L	1		S B	9 9 9	8	MFF
Chlorodibromomethane	ND	1.0	µ L	1		S B	9 9 9	8	MFF
Chloroethane	ND	0 0	µ L	1		S B	9 9 9	8	MFF
Chloroform	ND	0 0	µ L	1		S B	9 9 9	8	MFF
Chloromethane	ND	0 0	µ L	1		S B	9 9 9	8	MFF
2-Chlorotoluene	ND	0 0	µ L	1		S B	9 9 9	8	MFF
4-Chlorotoluene	ND	0 0	µ L	1		S B	9 9 9	8	MFF
1,2 Dibromo-3-chloropropane (DBCP)	ND	0 0	µ L	1		S B	9 9 9	8	MFF
,2 Dibromoethane (EDB)	ND	0 0	µ L	1		S B	9 9 9	8	MFF
Dibromomethane	ND	0 0	µ L	1		S B	9 9 9	8	MFF
,2 Dichlorobenzene	ND	0 0	µ L	1		S B	9 9 9	8	MFF
1,3-Dichlorobenzene	ND	0 0	µ L	1		S B	9 9 9	8	MFF
1,4 Dichlorobenzene	ND	0 0	µ L	1		S B	9 9 9	8	MFF
trans- ,4 Dichloro- butene	ND	2.0	µ L	1		S B	9 9 9	8	MFF
Dichlorodifluoromethane (Freon)	ND	0 0	µ L	1		S B	9 9 9	8	MFF
1,1 Dichloroethane	38	0 0	µ L	1		S B	9 9 9	8	MFF
1,2 Dichloroethane	ND	0 0	µ L	1		S B	9 9 9	8	MFF
1,1 Dichloroethylene	0	0	µ L	1		S B	9 9 9	8	MFF
cis- ,2 Dichloroethylene	0 3	0 0	µ L	1		S B	9 9 9	8	MFF
trans- ,2 Dichloroethylene	ND	1.0	µ L	1		S B	9 9 9	8	MFF
1,2 Dichloropropane	ND	0 0	µ L	1		S B	9 9 9	8	MFF
1,3-Dichloropropane	ND	0 0	µ L	1		S B	9 9 9	8	MFF
,2 Dichloropropane	ND	0 0	µ L	1	V- 5	S B	9 9 9	8	MFF
1,1 Dichloropropene	ND	0 0	µ L	1		S B	9 9 9	8	MFF
cis- ,3-Dichloropropene	ND	0 0	µ L	1		S B	9 9 9	8	MFF
trans- ,3-Dichloropropene	ND	5.0	µ L	1		S B	9 9 9	8	MFF
Ethylbenzene	ND	0 0	µ L	1		S B	9 9 9	8	MFF
Hexachlorobutadiene	ND	1.0	µ L	1		S B	9 9 9	8	MFF
-Hexanone (M K)	ND	2.0	µ L	1		S B	9 9 9	8	MFF
Isopropylbenzene (Cumene)	ND	0 0	µ L	1		S B	9 9 9	8	MFF
p-Isopropyltoluene (p-Cymene)	ND	0 0	µ L	1		S B	9 9 9	8	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture ample Description: onitor ell ork rder: 10
Date Received:
Field Sample #: MW-2 Sampled: 39
Sample ID: 0910595-01
a mple atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	nits	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	nalyst
Methyl tert- utyl Ether (MTBE)	ND							
Methylene Chloride	ND							
Methyl- pentanone (MIBK)	ND							
Naphthalene	ND							
n-Propylbenzene	ND							
tyrene	ND							
1,1,1,2 Tetrachloroethane	ND							
1,1,2,2 Tetrachloroethane	ND							
Tetrachloroethylene	ND							
Tetrahydrofuran	ND							
Toluene	ND							
,2,3-Trichlorobenzene	ND							
1,2,4 Trichlorobenzene	D							
1,1,1 Trichloroethane	37							
,1,2 Trichloroethane								
Trichloroethylene	ND							
Trichlorofluoromethane (Freon)	ND							
,2,3-Trichloropropane	ND							
1,1,2 Trichloro- ,2,2 trifluoroethane (Freon 3)								
1,2,4 Trimethylbenzene	ND							
1,3,5 Trimethylbenzene	ND							
Vinyl Chloride	ND							
m+p Xylene	ND							
o-Xylene	D							

Surrogates	% ecovery	Recovery imits	Flag
1,2 Dichloroethane-d4		30	
Toluene-d8	3	130	
romofluorobenzene		130	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture ample Description: onitor ell ork rder: 10
Date Received:
Field Sample #: MW-2 Sampled: 39
Sample ID: 0910595-01
a mple atrix round Water

Metals nalyses (Total)

Analyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	nalyst
Arsenic	D	mg						KSH
arium		mg						KSH
Cadmium	D	mg						KSH
Chromium		mg						KSH
ead	ND	mg						KSH
ercury	ND	mg			A			MPF
elenium	ND	mg						KSH
ilver	D	mg						KSH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture ample Description: onitor ell ork rder: 10
Date Received:
Field Sample #: MW-9 Sampled: 3:32
Sample ID: 0910595-02
a mple atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	nalyst
Acetone								
Acrylonitrile	ND							
Benzene	ND							
Bromobenzene	ND							
Bromodichloromethane	ND							
romoform	ND	3.						
Bromomethane	ND							
Butanone (MEK)	ND							
n- utylbenzene	ND							
sec- utylbenzene	ND							
tert- utylbenzene	ND							
Carbon Disulfide	ND							
Carbon Tetrachloride	ND							
Chlorobenzene	ND							
Chlorodibromomethane	ND							
Chloroethane	ND							
Chloroform	ND							
Chloromethane	ND							
-Chlorotoluene	ND							
-Chlorotoluene	ND							
1,2 Dibromo-3-chloropropane (DBCP)	ND							
1,2 Dibromoethane (EDB)	ND							
Dibromomethane	ND							
1,2 Dichlorobenzene	D							
1,3-Dichlorobenzene	ND							
,4 Dichlorobenzene	ND							
trans- ,4 Dichloro- butene	ND							
Dichlorodifluoromethane (Freon)	ND							
,1 Dichloroethane	ND							
1,2 Dichloroethane	ND							
1,1 Dichloroethylene	ND							
cis- ,2 Dichloroethylene	ND							
trans- ,2 Dichloroethylene	ND							
,2 Dichloropropane	ND							
1,3-Dichloropropane	ND							
2,2 Dichloropropane	ND			V-				
,1 Dichloropropene	ND							
cis- ,3-Dichloropropene	ND							
trans- ,3-Dichloropropene	ND							
Ethylbenzene	ND							
Hexachlorobutadiene	ND							
Hexanone (M K)	ND							
Isopropylbenzene (Cumene)	ND							
p-Isopropyltoluene (p-Cymene)	D							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture ample Description: onitor ell ork rder: 10
Date Received:
Field Sample #: MW-9 Sampled: 3:32
Sample ID: 0910595-02
Sample atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	nalyst
Methyl tert- utyl Ether (MTBE)								
ethylene Chloride	ND							
Methyl- pentanone (MIBK)	ND							
Naphthalene	ND							
n-Propylbenzene	ND							
tyrene	ND							
1,1,1,2 Tetrachloroethane	ND							
1,1,2,2 Tetrachloroethane	ND							
Tetrachloroethylene	ND							
Tetrahydrofuran	ND							
Toluene	ND							
,2,3-Trichlorobenzene	ND							
,2,4 Trichlorobenzene	ND							
,1,1 Trichloroethane	ND							
,1,2 Trichloroethane	ND							
Trichloroethylene	ND							
Trichlorofluoromethane (Freon)	ND							
,2,3-Trichloropropane	ND							
1,1,2 Trichloro- ,2,2 trifluoroethane (Freon 3)	D							
1,2,4 Trimethylbenzene	D							
1,3,5 Trimethylbenzene	ND							
Vinyl Chloride	ND							
m+p Xylene	D							
o-Xylene	D							

Surrogates	% ecovery	Recovery imits	Flag
,2 Dichloroethane-d4		30	
Toluene-d8		30	
romofluorobenzene		130	

Project ocation: Howe urniture ample Description: onitor ell ork rder: 10
Date Received:
Field Sample #: MW-9 Sampled: 3:32
Sample ID: 0910595-02
a mple atrix round Water

Metals nalyses (Total)

Analyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	nalyst
Arsenic	D	mg					3	KSH
arium		mg						KSH
Cadmium	ND	mg					3	KSH
Chromium	ND	mg					3	KSH
Lead	ND	mg					3	KSH
Mercury	ND	mg			A			MPF
elenium	ND	mg					3	KSH
Silver	D	mg						KSH

Project ocation: Howe urniture ample Description: onitor ell ork rder: 10
Date Received:
Field Sample #: MW-13 Sampled: 3:
Sample ID: 0910595-03
Samole atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	nalyst
Acetone	ND							
Acrylonitrile	ND							
enzene	ND							
romobenzene	ND							
romodichloromethane	ND							
romoform	ND	3.						
romomethane	ND							
utanone (MEK)	ND							
n- utylbenzene	ND							
sec- utylbenzene	ND							
tert- utylbenzene	ND							
Carbon Disulfide	ND							
Carbon Tetrachloride	ND							
Chlorobenzene	ND							
Chlorodibromomethane	ND							
Chloroethane	ND							
Chloroform	ND							
Chloromethane	ND							
Chlorotoluene	ND							
-Chlorotoluene	ND							
1,2 Dibromo-3-chloropropane (DBCP)	ND							
1,2 Dibromoethane (EDB)	ND							
Dibromomethane	ND							
,2 Dichlorobenzene	ND							
1,3-Dichlorobenzene	ND							
1,4 Dichlorobenzene	ND							
trans- ,4 Dichloro- butene	ND							
Dichlorodifluoromethane (Freon)	ND							
,1 Dichloroethane	ND							
1,2 Dichloroethane	ND							
1,1 Dichloroethylene	D							
cis- ,2 Dichloroethylene								
trans- ,2 Dichloroethylene	ND							
,2 Dichloropropane	ND							
1,3-Dichloropropane	ND							
2,2 Dichloropropane	ND				V-			
,1 Dichloropropene	ND							
cis- ,3-Dichloropropene	ND							
trans- ,3-Dichloropropene	ND							
Ethylbenzene	ND							
Hexachlorobutadiene	ND							
Hexanone (M K)	ND							
Isopropylbenzene (Cumene)	ND							
p-Isopropyltoluene (p-Cymene)	D							

Project ocation: Howe urniture ample Description: onitor ell ork rder: 10
Date Received:
Field Sample #: MW-13 Sampled: 3:
Sample ID: 0910595-03
a mple atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	Analyst
Methyl tert- utyl Ether (MTBE)	ND							
ethylene Chloride	ND							
Methyl- pentanone (MIBK)	ND							
aphthalene	ND							
n-Propylbenzene	ND							
tyrene	ND							
,1,1,2 Tetrachloroethane	ND							
1,1,2,2 Tetrachloroethane	ND							
Tetrachloroethylene	ND							
Tetrahydrofuran	ND							
Toluene	ND							
,2,3-Trichlorobenzene	ND							
1,2,4 Trichlorobenzene	ND							
1,1,1 Trichloroethane	ND							
1,1,2 Trichloroethane	ND							
Trichloroethylene	ND							
Trichlorofluoromethane (Freon)	ND							
,2,3-Trichloropropane	ND							
1,1,2 Trichloro- ,2,2 trifluoroethane (Freon 3)	ND							
1,2,4 Trimethylbenzene	ND							
1,3,5 Trimethylbenzene	ND							
Vinyl Chloride	ND							
m+p Xylene	ND							
o-Xylene	D							

Surrogates	% ecovery	Recovery imits	Flag
1,2 Dichloroethane-d4		30	
Toluene-d8		30	
romofluorobenzene		130	

Project ocation: Howe urniture ample Description: onitor ell ork rder: 10
Date Received:
Field Sample #: MW-13 Sampled: 3:
Sample ID: 0910595-03
Sample atrix round Water

Metals nalyses (Total)

Analyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	Analyst
Arsenic	D	mg						KSH
Arsenic					0A			KMT
Barium	ND	mg						KSH
Cadmium	ND	mg						KSH
Chromium	ND	mg						KSH
Lead	ND	mg						KSH
Lead	ND				A			KMT
Mercury	ND	mg			A		13:	PF
elenium	ND	mg						KSH
ilver	D	mg						KSH

Project ocation: Howe urniture ample Description: onitor ell ork rder: 10
Date Received:
Field Sample #: MW-19D Sampled:
Sample ID: 0910595-04
a mple atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	nalyst
Acetone	ND							
Acrylonitrile	ND							
Benzene	ND							
Bromobenzene	ND							
Bromodichloromethane	ND							
romoform	ND	3.						
Bromomethane	ND							
Butanone (MEK)	ND							
n- utylbenzene	ND							
sec- utylbenzene	ND							
tert- utylbenzene	ND							
Carbon Disulfide	ND							
Carbon Tetrachloride	ND							
Chlorobenzene	ND							
Chlorodibromomethane	ND							
Chloroethane	ND							
Chloroform	ND							
Chloromethane	ND							
-Chlorotoluene	ND							
-Chlorotoluene	ND							
1,2 Dibromo-3-chloropropane (DBCP)	ND							
1,2 Dibromoethane (EDB)	ND							
Dibromomethane	ND							
1,2 Dichlorobenzene	D							
1,3-Dichlorobenzene	ND							
,4 Dichlorobenzene	ND							
trans- ,4 Dichloro- butene	ND							
Dichlorodifluoromethane (Freon)	ND							
,1 Dichloroethane								
1,2 Dichloroethane	ND							
1,1 Dichloroethylene	ND							
cis- ,2 Dichloroethylene	3							
trans- ,2 Dichloroethylene								
1,2 Dichloropropane	ND							
1,3-Dichloropropane	ND							
2,2 Dichloropropane	ND			V-				
,1 Dichloropropene	ND							
cis- ,3-Dichloropropene	ND							
trans- ,3-Dichloropropene	ND							
Ethylbenzene	ND							
Hexachlorobutadiene	ND							
Hexanone (M K)	ND							
Isopropylbenzene (Cumene)	ND							
p-Isopropyltoluene (p-Cymene)	D							

Project ocation: Howe urniture ample Description: onitor ell ork rder: 10
Date Received:
Field Sample #: MW-19D Sampled:
Sample ID: 0910595-04
Sample atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	nalyst
ethyl tert- utyl Ether (MTBE)								
ethylene Chloride	ND							
Methyl- pentanone (MIBK)	ND							
Naphthalene	ND							
n-Propylbenzene	ND							
tyrene	ND							
1,1,1,2 Tetrachloroethane	ND							
1,1,2,2 Tetrachloroethane	ND							
Tetrachloroethylene	ND							
Tetrahydrofuran	ND							
Toluene	ND							
,2,3-Trichlorobenzene	ND							
,2,4 Trichlorobenzene	ND							
,1,1 Trichloroethane	ND							
,1,2 Trichloroethane	D							
Trichloroethylene								
Trichlorofluoromethane (Freon)	ND							
,2,3-Trichloropropane	ND							
1,1,2 Trichloro- ,2,2 trifluoroethane (Freon 3)	D							
1,2,4 Trimethylbenzene	D							
1,3,5 Trimethylbenzene	ND							
Vinyl Chloride	ND							
m+p Xylene	D							
o-Xylene	D							

Surrogates	% ecovery	Recovery imits	Flag
,2 Dichloroethane-d4		30	
Toluene-d8	03	30	
romofluorobenzene	93.	30	

Project ocation: Howe urniture ample Description: onitor ell ork rder: 10
Date Received:
Field Sample #: MW-19D Sampled:
Sample ID: 0910595-04
a mple atrix round Water

Metals nalyses (Total)

Analyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	nalyst
Arsenic	30				A		39	KMT
Arsenic		mg						KSH
arium	ND	mg						KSH
Cadmium	ND	mg						KSH
Chromium	ND	mg						KSH
Lead	ND				0A		:39	KMT
ead	ND	mg						KSH
Mercury	ND	mg			A		13: 3	MPF
Selenium	ND	mg						KSH
ilver	D	mg						KSH

Project ocation: Howe urniture ample Description: onitor ell ork rder: 10
Date Received:
Field Sample #: MW-19M Sampled:
Sample ID: 0910595-05
Sample atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	nalyst
Acetone	ND							
Acrylonitrile	ND							
enzene	ND							
romobenzene	ND							
romodichloromethane	ND							
Bromoform	ND	3.						
romomethane	ND							
utanone (MEK)	ND							
n- utylbenzene	ND							
sec- utylbenzene	ND							
tert- utylbenzene	ND							
Carbon Disulfide	ND							
Carbon Tetrachloride	ND							
Chlorobenzene	ND							
Chlorodibromomethane	ND							
Chloroethane	ND							
Chloroform	ND							
Chloromethane	ND							
Chlorotoluene	ND							
-Chlorotoluene	ND							
1,2 Dibromo-3-chloropropane (DBCP)	ND							
1,2 Dibromoethane (EDB)	ND							
Dibromomethane	ND							
,2 Dichlorobenzene	ND							
1,3-Dichlorobenzene	ND							
1,4 Dichlorobenzene	ND							
trans- ,4 Dichloro- butene	ND							
Dichlorodifluoromethane (Freon)	D							
,1 Dichloroethane	3.							
,2 Dichloroethane	ND							
1,1 Dichloroethylene								
cis- ,2 Dichloroethylene								
trans- ,2 Dichloroethylene	ND							
,2 Dichloropropane	ND							
1,3-Dichloropropane	ND							
2,2 Dichloropropane	ND			V-				
,1 Dichloropropene	ND							
cis- ,3-Dichloropropene	ND							
trans- ,3-Dichloropropene	ND							
Ethylbenzene	ND							
Hexachlorobutadiene	ND							
Hexanone (M K)	ND							
Isopropylbenzene (Cumene)	ND							
p-Isopropyltoluene (p-Cymene)	D							

Project ocation: Howe urniture ample Description: onitor ell ork rder: 10
Date Received:
Field Sample #: MW-19M Sampled:
Sample ID: 0910595-05
a mple atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	nits	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	nalyst
Methyl tert- utyl Ether (MTBE)								
Methylene Chloride	ND							
Methyl- pentanone (MIBK)	ND							
Naphthalene	ND							
n-Propylbenzene	ND							
tyrene	ND							
1,1,1,2 Tetrachloroethane	ND							
1,1,2,2 Tetrachloroethane	ND							
Tetrachloroethylene	ND							
Tetrahydrofuran	ND							
Toluene	ND							
,2,3-Trichlorobenzene	ND							
1,2,4 Trichlorobenzene	ND							
1,1,1 Trichloroethane	ND							
1,1,2 Trichloroethane	ND							
Trichloroethylene	ND							
Trichlorofluoromethane (Freon)	ND							
,2,3-Trichloropropane	ND							
1,1,2 Trichloro- ,2,2 trifluoroethane (Freon 3)	D							
1,2,4 Trimethylbenzene	ND							
1,3,5 Trimethylbenzene	ND							
Vinyl Chloride	ND							
m+p Xylene	ND							
o-Xylene	D							

Surrogates	% ecovery	Recovery imits	Flag
1,2 Dichloroethane-d4		30	
Toluene-d8		30	
romofluorobenzene		130	

Project ocation: Howe urniture ample Description: onitor ell ork rder: 10
Date Received:
Field Sample #: MW-19M Sampled:
Sample ID: 0910595-05
a mple atrix round Water

Metals nalyses (Total)

Analyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	nalyst
Arsenic					A			KMT
Arsenic	D	mg						KSH
arium		mg						KSH
Cadmium	D	mg						KSH
Chromium	D	mg						KSH
Lead	D				A			KMT
Lead	D	mg						KSH
Mercury	D	mg			A		13:	PF
Selenium	ND	mg						KSH
Silver	D	mg						KSH

Project ocation: Howe urniture ample Description: onitor ell ork rder: 10
Date Received:
Field Sample #: MW-102 Sampled: 3:
Sample ID: 0910595-06
a mple atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	nalyst
Acetone	ND							
Acrylonitrile	ND							
Benzene	ND							
Bromobenzene	ND							
Bromodichloromethane	ND							
romoform	ND	3.						
Bromomethane	ND							
Butanone (MEK)	ND							
n- utylbenzene	ND							
sec- utylbenzene	ND							
tert- utylbenzene	ND							
Carbon Disulfide	ND							
Carbon Tetrachloride	ND							
Chlorobenzene	ND							
Chlorodibromomethane	ND							
Chloroethane	ND							
Chloroform	ND							
Chloromethane	ND							
-Chlorotoluene	ND							
-Chlorotoluene	ND							
1,2 Dibromo-3-chloropropane (DBCP)	ND							
1,2 Dibromoethane (EDB)	ND							
Dibromomethane	ND							
1,2 Dichlorobenzene	D							
1,3-Dichlorobenzene	ND							
,4 Dichlorobenzene	ND							
trans- ,4 Dichloro- butene	ND							
Dichlorodifluoromethane (Freon)	ND							
,1 Dichloroethane	ND							
1,2 Dichloroethane	ND							
1,1 Dichloroethylene	ND							
cis- ,2 Dichloroethylene	ND							
trans- ,2 Dichloroethylene	ND							
,2 Dichloropropane	ND							
1,3-Dichloropropane	ND							
2,2 Dichloropropane	ND			V-				
,1 Dichloropropene	ND							
cis- ,3-Dichloropropene	ND							
trans- ,3-Dichloropropene	ND							
Ethylbenzene	ND							
Hexachlorobutadiene	ND							
Hexanone (M K)	ND							
Isopropylbenzene (Cumene)	ND							
p-Isopropyltoluene (p-Cymene)	D							

Project ocation: Howe urniture ample Description: onitor ell ork rder: 10
Date Received:
Field Sample #: MW-102 Sampled: 3:
Sample ID: 0910595-06
Sample atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	nalyst
ethyl tert- utyl Ether (MTBE)	ND							
ethylene Chloride	ND							
Methyl- pentanone (MIBK)	ND							
Naphthalene	ND							
n-Propylbenzene	ND							
tyrene	ND							
1,1,1,2 Tetrachloroethane	ND							
1,1,2,2 Tetrachloroethane	ND							
Tetrachloroethylene	ND							
Tetrahydrofuran	ND							
Toluene	ND							
,2,3-Trichlorobenzene	ND							
,2,4 Trichlorobenzene	ND							
,1,1 Trichloroethane	ND							
,1,2 Trichloroethane	ND							
Trichloroethylene	ND							
Trichlorofluoromethane (Freon)	ND							
,2,3-Trichloropropane	ND							
1,1,2 Trichloro- ,2,2 trifluoroethane (Freon 3)	D							
1,2,4 Trimethylbenzene	D							
1,3,5 Trimethylbenzene	ND							
Vinyl Chloride	ND							
m+p Xylene	D							
o-Xylene	D							

Surrogates	% ecovery	Recovery imits	Flag
,2 Dichloroethane-d4		30	
Toluene-d8		30	
romofluorobenzene	93.	30	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture ample Description: onitor ell ork rder: 10
Date Received:
Field Sample #: MW-102 Sampled: 3:
Sample ID: 0910595-06
a mple atrix round Water

Metals nalyses (Total)

Analyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	nalyst
Arsenic					0A			KMT
Arsenic	ND	mg						KSH
arium	.32	mg						KSH
Cadmium	ND	mg						KSH
Chromium	ND	mg						KSH
Lead	ND	mg						KSH
ead	ND				A			KMT
Mercury	ND	mg			A		13:	PF
Selenium	ND	mg						KSH
ilver	D	mg						KSH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture ample Description: onitor ell ork rder: 10
Date Received:
Field Sample #: MW-103 Sampled:
Sample ID: 0910595-07
Sample atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	nalyst
Acetone	ND							
Acrylonitrile	ND							
enzene	ND							
romobenzene	ND							
romodichloromethane	ND							
romoform	ND	3.						
Bromomethane	ND							
utanone (MEK)	ND							
n- utylbenzene	ND							
sec- utylbenzene	ND							
tert- utylbenzene	ND							
Carbon Disulfide	ND							
Carbon Tetrachloride	ND							
Chlorobenzene	ND							
Chlorodibromomethane	ND							
Chloroethane	ND							
Chloroform	ND							
Chloromethane	ND							
Chlorotoluene	ND							
-Chlorotoluene	ND							
1,2 Dibromo-3-chloropropane (DBCP)	ND							
1,2 Dibromoethane (EDB)	ND							
Dibromomethane	ND							
,2 Dichlorobenzene	ND							
1,3-Dichlorobenzene	ND							
1,4 Dichlorobenzene	ND							
trans- ,4 Dichloro- butene	ND							
Dichlorodifluoromethane (Freon)	ND							
,1 Dichloroethane	ND							
1,2 Dichloroethane	ND							
1,1 Dichloroethylene	D							
cis- ,2 Dichloroethylene	3.							
trans- ,2 Dichloroethylene	ND							
,2 Dichloropropane	ND							
1,3-Dichloropropane	ND							
2,2 Dichloropropane	ND			V-				
,1 Dichloropropene	ND							
cis- ,3-Dichloropropene	ND							
trans- ,3-Dichloropropene	ND							
Ethylbenzene	ND							
Hexachlorobutadiene	ND							
Hexanone (M K)	ND							
Isopropylbenzene (Cumene)	ND							
p-Isopropyltoluene (p-Cymene)	D							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture ample Description: onitor ell ork rder: 10
Date Received:
Field Sample #: MW-103 Sampled:
Sample ID: 0910595-07
a mple atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	Analyst
Methyl tert- utyl Ether (MTBE)								
Methylene Chloride	ND							
ethyl- pentanone (MIBK)	ND							
aphthalene	ND							
n-Propylbenzene	ND							
tyrene	ND							
,1,1,2 Tetrachloroethane	ND							
1,1,2,2 Tetrachloroethane	ND							
Tetrachloroethylene	ND							
Tetrahydrofuran	ND							
Toluene	ND							
,2,3-Trichlorobenzene	ND							
1,2,4 Trichlorobenzene	ND							
1,1,1 Trichloroethane	ND							
1,1,2 Trichloroethane	ND							
Trichloroethylene	ND							
Trichlorofluoromethane (Freon)	ND							
,2,3-Trichloropropane	ND							
1,1,2 Trichloro- ,2,2 trifluoroethane (Freon 3)	ND							
1,2,4 Trimethylbenzene	ND							
1,3,5 Trimethylbenzene	D							
Vinyl Chloride								
m+p Xylene	ND							
o-Xylene	D							

Surrogates	% ecovery	Recovery imits	Flag
1,2 Dichloroethane-d4		30	
Toluene-d8		30	
romofluorobenzene	93.	30	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture ample Description: onitor ell ork rder: 10
Date Received:
Field Sample #: MW-103 Sampled:
Sample ID: 0910595-07
Sample atrix round Water

Metals nalyses (Total)

Analyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	Analyst
Arsenic					0A		3	KMT
Arsenic	ND	mg						KSH
Barium	ND	mg						KSH
Cadmium	ND	mg						KSH
Chromium	ND	mg						KSH
Lead	ND	mg						KSH
Lead	ND				0A		03	KMT
Mercury	ND	mg			A		13:	PF
elenium	ND	mg						KSH
ilver	D	mg						KSH

Project ocation: Howe urniture | ample Description: onitor ell | ork rder: 10
Date Received:
Field Sample #: MW-104 | ampled: 33
Sample ID: 0910595-08
a mple atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	nalyst
Acetone	ND							
Acrylonitrile	ND							
Benzene	ND							
Bromobenzene	ND							
Bromodichloromethane	ND							
romoform	ND	3.						
Bromomethane	ND							
Butanone (MEK)	ND							
n- utylbenzene	ND							
sec- utylbenzene	ND							
tert- utylbenzene	ND							
Carbon Disulfide	ND							
Carbon Tetrachloride	ND							
Chlorobenzene	ND							
Chlorodibromomethane	ND							
Chloroethane	ND							
Chloroform	ND							
Chloromethane	ND							
-Chlorotoluene	ND							
-Chlorotoluene	ND							
1,2 Dibromo-3-chloropropane (DBCP)	ND							
1,2 Dibromoethane (EDB)	ND							
Dibromomethane	ND							
1,2 Dichlorobenzene	D							
1,3-Dichlorobenzene	ND							
,4 Dichlorobenzene	ND							
trans- ,4 Dichloro- butene	ND							
Dichlorodifluoromethane (Freon)	ND							
,1 Dichloroethane	ND							
1,2 Dichloroethane	ND							
1,1 Dichloroethylene	D							
cis- ,2 Dichloroethylene								
trans- ,2 Dichloroethylene	ND							
,2 Dichloropropane	ND							
1,3-Dichloropropane	ND							
2,2 Dichloropropane	ND			V-				
,1 Dichloropropene	ND							
cis- ,3-Dichloropropene	ND							
trans- ,3-Dichloropropene	ND							
Ethylbenzene	ND							
Hexachlorobutadiene	ND							
Hexanone (M K)	ND							
Isopropylbenzene (Cumene)	ND							
p-Isopropyltoluene (p-Cymene)	D							

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture | ample Description: onitor ell | ork rder: 10
Date Received:
Field Sample #: MW-104 | ampled: 33
Sample ID: 0910595-08
Sample atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	nalyst
ethyl tert- utyl Ether (MTBE)								
ethylene Chloride	ND							
Methyl- pentanone (MIBK)	ND							
Naphthalene	ND							
n-Propylbenzene	ND							
tyrene	ND							
1,1,1,2 Tetrachloroethane	ND							
1,1,2,2 Tetrachloroethane	ND							
Tetrachloroethylene	ND							
Tetrahydrofuran	ND							
Toluene	ND							
,2,3-Trichlorobenzene	ND							
,2,4 Trichlorobenzene	ND							
,1,1 Trichloroethane	ND							
,1,2 Trichloroethane	ND							
Trichloroethylene	ND							
Trichlorofluoromethane (Freon)	ND							
,2,3-Trichloropropane	ND							
1,1,2 Trichloro- ,2,2 trifluoroethane (Freon 3)	D							
1,2,4 Trimethylbenzene	D							
1,3,5 Trimethylbenzene	ND							
Vinyl Chloride								
m+p Xylene	ND							
o-Xylene	D							

Surrogates	% ecovery	Recovery imits	Flag
,2 Dichloroethane-d4		30	
Toluene-d8	03	30	
romofluorobenzene	93.3	130	

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture | ample Description: onitor ell | ork rder: 10
Date Received:
Field Sample #: MW-104 | ampled: 33
Sample ID: 0910595-08
a mple atrix round Water

Metals nalyses (Total)

Analyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	nalyst
Arsenic					0A			KMT
Arsenic	ND	mg						KSH
arium	23	mg						KSH
Cadmium	ND	mg						KSH
Chromium	D	mg						KSH
Lead		mg						KSH
ead					0A			KMT
Mercury	ND	mg			A		13:	PF
Selenium	ND	mg						KSH
ilver	D	mg						KSH

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture | ample Description: onitor ell | ork rder: 10
Date Received:
Field Sample #: MW y others | Sampled:
Sample ID: 0910595-09
Sample atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	nalyst
Acetone	ND							
Acrylonitrile	ND							
enzene	ND							
romobenzene	ND							
romodichloromethane	ND							
romoform	ND	3.						
Bromomethane	ND							
utanone (MEK)	ND							
n- utylbenzene	ND							
sec- utylbenzene	ND							
tert- utylbenzene	ND							
Carbon Disulfide	ND							
Carbon Tetrachloride	ND							
Chlorobenzene	ND							
Chlorodibromomethane	ND							
Chloroethane	ND							
Chloroform	ND							
Chloromethane	ND							
Chlorotoluene	ND							
-Chlorotoluene	ND							
1,2 Dibromo-3-chloropropane (DBCP)	ND							
1,2 Dibromoethane (EDB)	ND							
Dibromomethane	ND							
,2 Dichlorobenzene	ND							
1,3-Dichlorobenzene	ND							
1,4 Dichlorobenzene	ND							
trans- ,4 Dichloro- butene	ND							
Dichlorodifluoromethane (Freon)	ND							
,1 Dichloroethane								
1,2 Dichloroethane	ND							
1,1 Dichloroethylene	ND							
cis- ,2 Dichloroethylene	ND							
trans- ,2 Dichloroethylene	ND							
,2 Dichloropropane	ND							
1,3-Dichloropropane	ND							
2,2 Dichloropropane	ND			V-				
,1 Dichloropropene	ND							
cis- ,3-Dichloropropene	ND							
trans- ,3-Dichloropropene	ND							
Ethylbenzene	ND							
Hexachlorobutadiene	ND							
Hexanone (M K)	ND							
Isopropylbenzene (Cumene)	ND							
p-Isopropyltoluene (p-Cymene)	D							

Project ocation: Howe urniture — ample Description: onitor ell — ork rder: 10
Date Received:
Field Sample #: MW y others — Sampled:
Sample ID: 0910595-09
a mple atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	nits	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	nalyst
Methyl tert- utyl Ether (MTBE)								
Methylene Chloride	ND							
Methyl- pentanone (MIBK)	ND							
Naphthalene	ND							
n-Propylbenzene	ND							
tyrene	ND							
1,1,1,2 Tetrachloroethane	ND							
1,1,2,2 Tetrachloroethane	ND							
Tetrachloroethylene	ND							
Tetrahydrofuran	ND							
Toluene	ND							
,2,3-Trichlorobenzene	ND							
1,2,4 Trichlorobenzene	ND							
1,1,1 Trichloroethane	ND							
1,1,2 Trichloroethane	ND							
Trichloroethylene	ND							
Trichlorofluoromethane (Freon)	ND							
,2,3-Trichloropropane	ND							
1,1,2 Trichloro- ,2,2 trifluoroethane (Freon 3)	D							
1,2,4 Trimethylbenzene	ND							
1,3,5 Trimethylbenzene	D							
Vinyl Chloride								
m+p Xylene	ND							
o-Xylene	D							

Surrogates	% ecovery	Recovery imits	Flag
1,2 Dichloroethane-d4		30	
Toluene-d8	3	130	
romofluorobenzene	93.	30	

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture — ample Description: onitor ell — ork rder: 10
Date Received:
Field Sample #: MW y others — Sampled:
Sample ID: 0910595-09
a mple atrix round Water

Metals nalyses (Total)

Analyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	nalyst
Arsenic	D	mg						KSH
Arsenic					A			KMT
Barium		mg						KSH
Cadmium	ND	mg						KSH
Chromium	ND	mg						KSH
ead	ND	mg						KSH
ead	ND				A			KMT
Mercury	ND	mg			A		13:	PF
elenium	ND	mg						KSH
ilver	D	mg						KSH

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture — ample Description: onitor ell — ork rder: 10
Date Received:
Field Sample #: -01 — Sampled: 36
Sample ID: 0910595-10
a mple atrix Trip Blank a ter

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	nalyst
Acetone	ND							
Acrylonitrile	ND							
enzene	ND							
romobenzene	ND							
romodichloromethane	ND							
romoform	ND	3.						
romomethane	ND							
utanone (MEK)	ND							
n- utylbenzene	ND							
sec- utylbenzene	ND							
tert- utylbenzene	ND							
Carbon Disulfide	ND							
Carbon Tetrachloride	ND							
Chlorobenzene	ND							
Chlorodibromomethane	ND							
Chloroethane	ND							
Chloroform	ND							
Chloromethane	ND							
Chlorotoluene	ND							
Chlorotoluene	ND							
1,2 Dibromo-3-chloropropane (DBCP)	ND							
1,2 Dibromoethane (EDB)	ND							
Dibromomethane	ND							
1,2 Dichlorobenzene	ND							
1,3-Dichlorobenzene	ND							
,4 Dichlorobenzene	ND							
trans- ,4 Dichloro- butene	ND							
Dichlorodifluoromethane (Freon)	ND							
,1 Dichloroethane	ND							
,2 Dichloroethane	ND							
,1 Dichloroethylene	ND							
cis- ,2 Dichloroethylene	ND							
trans- ,2 Dichloroethylene	ND							
,2 Dichloropropane	ND							
,3-Dichloropropane	ND							
,2 Dichloropropane	ND			V-				
,1 Dichloropropene	ND							
cis- ,3-Dichloropropene	ND							
trans- ,3-Dichloropropene	ND							
Ethylbenzene	ND							
Hexachlorobutadiene	ND							
Hexanone (M K)	ND							
Isopropylbenzene (Cumene)	ND							
p-Isopropyltoluene (p-Cymene)	D							

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture — ample Description: onitor ell — ork rder: 10
Date Received:
Field Sample #: -01 — Sampled: 36
Sample ID: 0910595-10
Sample atrix Trip Blank a ter

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	nalyst
3: ethyl tert- utyl Ether (MTBE)	ND							
3: ethylene Chloride	ND							
3: ethyl- pentanone (MIBK)	ND							
3: aphthalene	ND							
3:n-Propylbenzene	ND							
tyrene	ND							
3: ,1,1,2 Tetrachloroethane	ND							
3: ,1,2,2 Tetrachloroethane	ND							
3:Tetrachloroethylene	ND							
3:Tetrahydrofuran	ND							
3:Toluene	ND							
3: ,2,3-Trichlorobenzene	ND							
3: ,2,4 Trichlorobenzene	ND							
3: ,1,1 Trichloroethane	ND							
3: ,1,2 Trichloroethane	ND							
3:Trichloroethylene	ND							
3:Trichlorofluoromethane (Freon)	ND							
3: ,2,3-Trichloropropane	ND							
3: ,1,2 Trichloro- ,2,2 trifluoroethane (Freon 3)	D							
3: 1,2,4 Trimethylbenzene	D							
3: 1,3,5 Trimethylbenzene	ND							
3: Vinyl Chloride	ND							
3: m+p Xylene	ND							
3: o-Xylene	ND							

Surrogates	% ecovery	Recovery imits	Flag
3: ,2 Dichloroethane-d4		30	3:
3: Toluene-d8		30	3:
3: romofluorobenzene		130	3:

3:
3:
3:
3:
3:
3:
3:
3:
3:
3:
3:
3:
3:
3:
3:
3:
3:
3:
3:
3:
3:

Project ocation: Howe urniture ample Description: onitor ell ork rder: 10
Date Received:
Field Sample #: -01 Sampled: 30
Sample ID: 0910595-11
a mple atrix Equipment lank a ter

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	nalyst
Acetone								
Acrylonitrile	ND							
enzene	ND							
romobenzene	ND							
romodichloromethane	ND							
romoform	ND	3.						
romomethane	ND							
utanone (MEK)	ND							
n- utylbenzene	ND							
sec- utylbenzene	ND							
tert- utylbenzene	ND							
Carbon Disulfide	ND							
Carbon Tetrachloride	ND							
Chlorobenzene	ND							
Chlorodibromomethane	ND							
Chloroethane	ND							
Chloroform	ND							
Chloromethane	ND							
Chlorotoluene	ND							
Chlorotoluene	ND							
1,2 Dibromo-3-chloropropane (DBCP)	ND							
1,2 Dibromoethane (EDB)	ND							
Dibromomethane	ND							
1,2 Dichlorobenzene	ND							
1,3-Dichlorobenzene	ND							
,4 Dichlorobenzene	ND							
trans- ,4 Dichloro- butene	ND							
Dichlorodifluoromethane (Freon)	ND							
,1 Dichloroethane	ND							
,2 Dichloroethane	ND							
,1 Dichloroethylene	ND							
cis- ,2 Dichloroethylene	ND							
trans- ,2 Dichloroethylene	ND							
,2 Dichloropropane	ND							
,3-Dichloropropane	ND							
,2 Dichloropropane	ND			V-				
,1 Dichloropropene	ND							
cis- ,3-Dichloropropene	ND							
trans- ,3-Dichloropropene	ND							
Ethylbenzene	ND							
Hexachlorobutadiene	ND							
Hexanone (M K)	ND							
Isopropylbenzene (Cumene)	ND							
p-Isopropyltoluene (p-Cymene)	D							

Project ocation: Howe urniture ample Description: onitor ell ork rder: 10
Date Received:
Field Sample #: -01 Sampled: 30
Sample ID: 0910595-11
Sample atrix Equipment lank a ter

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	nalyst
3: ethyl tert- utyl Ether (MTBE)	ND							
3: ethylene Chloride	ND							
3: ethyl- pentanone (MIBK)	ND							
3: aphthalene	ND							
3:n-Propylbenzene	ND							
tyr ne	ND							
3: ,1,1,2 Tetrachloroethane	ND							
3: ,1,2,2 Tetrachloroethane	ND							
3:Tetrachloroethylene	ND							
3:Tetrahydrofuran	ND							
3:Toluene	ND							
3: ,2,3-Trichlorobenzene	ND							
3: ,2,4 Trichlorobenzene	ND							
3: ,1,1 Trichloroethane	ND							
3: ,1,2 Trichloroethane	ND							
3:Trichloroethylene	ND							
3:Trichlorofluoromethane (Freon)	ND							
3: ,2,3-Trichloropropane	ND							
3: ,1,2 Trichloro- ,2,2 trifluoroethane (Freon 3)	D							
3: 1,2,4 Trimethylbenzene 3:	D							
1,3,5 Trimethylbenzene 3:	ND							
Vinyl Chloride 3:	ND							
m+p Xylene 3:	ND							
o-Xylene 3-	ND							

Surrogates	% ecovery	Recovery imits	Flag	
3- ,2 Dichloroethane-d4	03	30		3:
Toluene-d8		30		3:
3: romofluorobenzene	93.	30		3:

3:
3:
3:
3:
3:
3:
3:
3:
3:
3:
3:
3:
3:
3:
3:
3:
3:

Project ocation: Howe urniture ample Description: onitor ell ork rder: 10
Date Received:
Field Sample #: -01 ampled: 30
Sample ID: 0910595-11
Sample atrix Equipment lank a ter

Metals nalyses (Total)

nalyte	esults	Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	nalyst
Arsenic	ND	mg					3: 3	KSH
Arsenic	D				0A		3	KMT
Barium	D	mg					3: 3	KSH
Cadmium	D	mg					3: 3	KSH
Chromium	D	mg					3: 3	KSH
Lead	D	mg					3: 3	KSH
Lead	D				0A		3	KMT
Mercury	ND	mg			A			PF
Selenium	ND	mg					3: 3	KSH
Silver	D	mg					3: 3	KSH

Sample xtraction Data

Prep Method: SW- 3005A-SW- 010B

ab umber [Field ID]	atch	Initial [mL]	Final [mL]	Date
910 [M]	535			
910 [M]	35			
910 3 [M 3]	35			
910 [M D]	35			
910 [M]	35			
910 [M]	35			
910 [M 3]	35			
910 [M]	35			
910 [M y others]	35			
910 [EB]	35			

3:

Prep Method: SW- 3005A-SW- 020A

ab umber [Field ID]	atch	Initial [mL]	Final [mL]	Date
910 3 [M 3]				
910 [M D]				
910 [M]				
910 [M]				
910 [M 3]				
910 [M]				
910 [M y others]				
910 [EB]				

Prep Method: SW- 7470A Prep-SW- 7470A

ab umber [Field ID]	atch	Initial [mL]	Final [mL]	Date
910 [M]	31			
910 [M]	31			
910 3 [M 3]	31			
910 [M D]	31			
910 [M]	31			
910 [M]	31			
910 [M 3]	31			
910 [M]	31			
910 [M y others]	31			
910 [EB]	31			

Prep Method: SW- 5030B-SW- 260B

ab umber [Field ID]	atch	Initial [mL]	Final [mL]	Date
910 [M]				
910 [M]				
910 3 [M 3]				
910 [M D]				
910 [M]				
910 [M]				
910 [M 3]				
910 [M]				
910 [M y others]				
910 [TB]				
910 [EB]				

Sample xtraction Data

QU IT CON OL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	nits	pike Level	ource Result	%REC	%REC imits	RPD	RPD imit	Notes
atch 005327 - SW- 5030B										
lank (B005327- K1)				Prepared:	Analyzed:					
Acetone	ND									
Acrylonitrile	ND									
Benzene	ND									
Bromobenzene	ND									
Bromodichloromethane	D									
Bromoform	ND	3.								
romomethane	ND									
Butanone (MEK)	ND									
n- utylbenzene	ND									
sec- utylbenzene	ND									
tert- utylbenzene	ND									
Carbon Disulfide	ND									
Carbon Tetrachloride	ND									
Chlorobenzene	ND									
Chlorodibromomethane	ND									
Chloroethane	D									
Chloroform	ND									
Chloromethane	ND									
-Chlorotoluene	ND									
-Chlorotoluene	ND									
1,2 Dibromo-3-chloropropane (DBCP)	ND									
1,2 Dibromoethane (EDB)	ND									
Dibromomethane	ND									
1,2 Dichlorobenzene	ND									
1,3-Dichlorobenzene	ND									
1,4 Dichlorobenzene	ND									
trans- ,4 Dichloro- butene	ND									
Dichlorodifluoromethane (Freon)	ND									
1,1 Dichloroethane	ND									
1,2 Dichloroethane	ND									
1,1 Dichloroethylene	ND									
cis- ,2 Dichloroethylene	ND									
trans- ,2 Dichloroethylene	ND									
1,2 Dichloropropane	ND									
1,3-Dichloropropane	ND									
2,2 Dichloropropane	ND									V-
,1 Dichloropropene	ND									
cis- ,3-Dichloropropene	ND									
trans- ,3-Dichloropropene	ND									
Ethylbenzene	ND									
Hexachlorobutadiene	ND									
-Hexanone (M K)	ND									
Isopropylbenzene (Cumene)	ND									
p-Isopropyltoluene (p-Cymene)	ND									
Methyl tert- utyl Ether (MTBE)	ND									
Methylene Chloride	ND									
Methyl- pentanone (MIBK)	ND									
aphthalene	ND									
n-Propylbenzene	ND									
Styrene	ND									
1,1,1,2 Tetrachloroethane	ND									
1,1,2,2 Tetrachloroethane	ND									

QU IT CON OL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	nits	pike Level	ource Result	%REC	%REC imits	RPD	RPD imit	Notes
atch 005327 - SW- 5030B										
lank (B005327- K1)				Prepared:	Analyzed:					
Tetrachloroethylene	ND									
Tetrahydrofuran	ND									
Toluene	ND									
,2,3-Trichlorobenzene	ND									
,2,4 Trichlorobenzene	ND									
1,1,1 Trichloroethane	ND									
,1,2 Trichloroethane	ND									
Trichloroethylene	ND									
Trichlorofluoromethane (Freon)	ND									
,2,3-Trichloropropane	ND									
,1,2 Trichloro- ,2,2 trifluoroethane (Freon 13)	D									
,2,4 Trimethylbenzene	ND									
,3,5 Trimethylbenzene	ND									
Vinyl Chloride	ND									
m+p Xylene	ND									
o-Xylene	ND									
urrogate: ,2 Dichloroethane-d4	*25.6*						130			
urrogate: Toluene-d8	*24.4*						130			
urrogate: romofluorobenzene	*23.7*						130			
CS (B005327-BS1)				Prepared:	Analyzed:					
Acetone										†
Acrylonitrile							130			
enzene							130			
romobenzene							130			
romodichloromethane							130			
romoform	3	3.			3		130			
romomethane										†
utanone (MEK)										†
n- utylbenzene							130			
sec- utylbenzene	.3				3		130			
tert- utylbenzene							130			
Carbon Disulfide							130			
Carbon Tetrachloride							130			
Chlorobenzene							130			
Chlorodibromomethane							130			
Chloroethane	.3				3		130			
Chloroform							130			
Chloromethane										†
Chlorotoluene							130			
Chlorotoluene							130			
,2 Dibromo-3-chloropropane (DBCP)							130			
,2 Dibromoethane (EDB)							130			
Dibromomethane							130			
,2 Dichlorobenzene							130			
,3-Dichlorobenzene							130			
,4 Dichlorobenzene							130			
trans- ,4 Dichloro- butene							130			
Dichlorodifluoromethane (Freon)										†
1,1 Dichloroethane							130			
,2 Dichloroethane							130			
,1 Dichloroethylene							130			

QU IT CON OL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	nits	pike Level	ource Result	%REC	%REC imits	RPD	RPD imit	Notes
atch 005327 - SW- 5030B										
CS (B005327-BS1)				Prepared:	Analyzed:					
cis- ,2 Dichloroethylene	63					3	130			
trans- ,2 Dichloroethylene							130			
1,2 Dichloropropane							130			
1,3-Dichloropropane							130			
2,2 Dichloropropane							30			V- †
1,1 Dichloropropene							130			
cis- ,3-Dichloropropene	.38					3.	30			
trans- ,3-Dichloropropene							130			
Ethylbenzene							130			
Hexachlorobutadiene							130			
-Hexanone (M K)	13					3				†
Isopropylbenzene (Cumene)							130			
p-Isopropyltoluene (p-Cymene)							130			
ethyl tert- utyl Ether (MTBE)	.3					03	130			
ethylene Chloride	.32					3.	30			
ethyl- pentanone (MIBK)										†
aphthalene							130			†
n-Propylbenzene							130			
tyrene							130			
,1,1,2 Tetrachloroethane							130			
,1,2,2 Tetrachloroethane							13			
Tetrachloroethylene										†
Tetrahydrofuran							130			
Toluene							130			
,2,3-Trichlorobenzene	.3					03	130			
,2,4 Trichlorobenzene							130			
,1,1 Trichloroethane							130			
,1,2 Trichloroethane							130			
Trichloroethylene							130			
Trichlorofluoromethane (Freon)							130			
,2,3-Trichloropropane	53					.3	130			
,1,2 Trichloro- ,2,2 trifluoroethane (Freon 3)							30			
,2,4 Trimethylbenzene							130			
,3,5 Trimethylbenzene							130			
Vinyl Chloride										†
m+p Xylene							130			
o-Xylene							130			
urrogate: ,2 Dichloroethane-d4	*24.6*						130			
Surrogate: Toluene-d8	*25.6*						130			
urrogate: romofluorobenzene	*23.8*						130			
CS Dup (B005327-BSD1)				Prepared:	Analyzed:					
Acetone	23					3				†
Acrylonitrile							130			
enzene							130			
romobenzene							130			
romodichloromethane							130	3		
romoform		3.				**9.8** *	130			
Bromomethane										†
utanone (MEK)								837		†
n- utylbenzene							130			
sec- utylbenzene	.3					3	130	38		

QU IT CON OL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	nits	pike Level	ource Result	%REC	%REC imits	RPD	RPD imit	Notes
atch 005327 - SW- 5030B										
CS Dup (B005327-BS D1)				Prepared:	Analyzed:					
tert- utylbenzene							130			
Carbon Disulfide							130			
Carbon Tetrachloride							130	3.		
Chlorobenzene							130			
Chlorodibromomethane							130			
Chloroethane							130	39		
Chloroform							130			
Chloromethane								.37		†
-Chlorotoluene							130			
Chlorotoluene							130			
,2 Dibromo-3-chloropropane (DBCP)							130			
,2 Dibromoethane (EDB)							130			
Dibromomethane							130			
,2 Dichlorobenzene							130			
,3-Dichlorobenzene							130			
,4 Dichlorobenzene							130			
trans- ,4 Dichloro- butene							130	3.		
Dichlorodifluoromethane (Freon)										†
1,1 Dichloroethane							130			
,2 Dichloroethane							130			
,1 Dichloroethylene							130	3.		
cis- ,2 Dichloroethylene							130			
trans- ,2 Dichloroethylene							130			
,2 Dichloropropane							130	3.		
,3-Dichloropropane							130			
,2 Dichloropropane	36					3.	30		V-	†
1,1 Dichloropropene							130		3	
cis- ,3-Dichloropropene							130	35		
trans- ,3-Dichloropropene	53					3	130			
Ethylbenzene							130			
Hexachlorobutadiene							130			
Hexanone (M K)										†
Isopropylbenzene (Cumene)							130			
p-Isopropyltoluene (p-Cymene)							130			
ethyl tert- utyl Ether (MTBE)	.3					03	130			
ethylene Chloride							130			
ethyl- pentanone (MIBK)										†
aphthalene							130			†
n-Propylbenzene							130	30		
tyrene							130			
,1,1,2 Tetrachloroethane							130			
,1,2,2 Tetrachloroethane							130			
Tetrachloroethylene										†
Tetrahydrofuran							130			
Toluene							130			
,2,3-Trichlorobenzene							130			
,2,4 Trichlorobenzene							130	3.		
,1,1 Trichloroethane							130	31		
,1,2 Trichloroethane							130	3.		
Trichloroethylene							130			
Trichlorofluoromethane (Freon)	.3					13	130			
,2,3-Trichloropropane							130	3.		

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QU IT CON OL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	nits	pike Level	ource Result	%REC	%REC imits	RPD	RPD imit	Notes
atch 005327 - SW- 5030B										
CS Dup (B005327-BS D1)				Prepared:	Analyzed:					
,1,2 Trichloro- ,2,2 trifluoroethane (Freon 3)							30			
1,2,4 Trimethylbenzene							130			
,3,5 Trimethylbenzene							130			
Vinyl Chloride	.30					3.				†
m+p Xylene							130			
o-Xylene							130			
urrogate: ,2 Dichloroethane-d4	*24.9*						130			
urrogate: Toluene-d8	*25.5*						130			
urrogate: romofluorobenzene	*23.9*						30			

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QU IT CON OL

Metals nalyses (Total) - Quality Control

Analyte	Result	Reporting Limit	nits	pike Level	ource Result	%REC	%REC imits	RPD	RPD imit	Notes
atch 005312 - SW- 7470A Prep										
lank (B005312- K1)				Prepared:	Analyzed:					
ercury	D		mg							
CS (B005312-BS1)				Prepared:	Analyzed:					
Mercury			mg							
CS Dup (B005312-BSD1)				Prepared:	Analyzed:					
ercury			mg							
Duplicate (B005312-DUP1)	**Source: 0910595-11**			Prepared:	Analyzed:					
ercury	D		mg		D			C		
Matrix Spike (B005312-MS1)	**Source: 0910595-11**			Prepared:	Analyzed:					
ercury			mg		D					
atch 005351 - SW- 3005A										
lank (B005351- K1)				Prepared:	Analyzed:					
Arsenic	D		mg							
arium	D		mg							
Cadmium	D		mg							
Chromium	D		mg							
ead	D		mg							
Selenium	D		mg							
Silver	D		mg							
CS (B005351-BS1)				Prepared:	Analyzed:					
Arsenic			mg							
Barium			mg							
Cadmium			mg			3				
Chromium			mg							
ead			mg			3				
Selenium			mg			3				
ilver			mg							
CS Dup (B005351-BSD1)				Prepared:	Analyzed:					
Arsenic			mg							
arium			mg							
Cadmium			mg							
Chromium			mg							
ead			mg							
elenium			mg							
ilver	3		mg							

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QU IT CON OL

Metals nalyses (Total) - Quality Control

Analyte	Result	Reporting Limit	nits	pike Level	ource Result	%REC	%REC imits	RPD	RPD imit	Notes
Batch 005351 - SW- 3005A										
Duplicate (B005351-DUP1)	**Source: 0910595-01**			Prepared:	Analyzed:					
Arsenic	D		mg		D			NC		
Barium			mg							
Cadmium	D		mg		D			C		
Chromium			mg							
ead	D		mg		D			NC		
elenium	D		mg		D			NC		
Silver	D		mg		D			C		
Matrix Spike (B005351-MS1)	**Source: 0910595-01**			Prepared:	Analyzed					
Arsenic			mg		D					
arium			mg							
Cadmium			mg		D					
Chromium			mg							
ead			mg							
elenium			mg		D					
Silver			mg		D					
atch 008181 - SW- 3005A										
lank (B008181- K1)				Prepared:	Analyzed:					
Arsenic	ND									
ead	ND									
CS (B008181-BS1)				Prepared:	Analyzed:					
Arsenic	53									
ead										
CS Dup (B008181-BSD1)				Prepared:	Analyzed					
Arsenic	43									
Lead										
Duplicate (B008181-DUP1)	**Source: 0910595-03**			Prepared:	Analyzed:					
Arsenic	3							3.		
ead	ND				ND			C		
Matrix Spike (B008181-MS1)	**Source: 0910595-03**			Prepared:	Analyzed:					
Arsenic	238					3				
ead					ND					

FL G/QU IFIE SUMMA

*	QC result is outside of established limits.
†	Wide recovery limits estabished for difficult compound.
‡	Wide RPD limits estabished for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two CS results is within method specified criteria.
V-	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Significant uncertainty is associated with the reported value which is likely to be biased on the low side.

CE IFICA IONS

Certified nalyses included in this eport

nalyte	Certifications
6 60 B r	
Arsenic	CT,NH,NY,RI
arium	CT,NH,NY,RI
Cadmium	CT,NH,NY,RI
Chromium	CT,NH,NY,RI
ead	CT,NH,NY,RI
elenium	CT,NH,NY,RI
ilver	CT,NH,NY,RI
6 6020 r	
Arsenic	CT,NH,NY,RI
ead	CT,NH,NY,RI
6 r	
ercury	CT,NH,NY,RI
6 260B r	
Acetone	CT,NH,NY
Acrylonitrile	CT,NY,RI
enzene	CT,NH,NY,RI
Bromodichloromethane	CT,NH,NY,RI
Bromoform	CT,NH,NY,RI
Bromomethane	CT,NH,NY,RI
Butanone (MEK)	CT,NH,NY
n- utylbenzene	NY
sec- utylbenzene	NY
tert- utylbenzene	Y
Carbon Disulfide	CT,NH,NY
Carbon Tetrachloride	CT,NH,NY,RI
Chlorobenzene	CT,NH,NY,RI
Chlorodibromomethane	CT,NH,NY,RI
Chloroethane	CT,NH,NY,RI
Chloroform	CT,NH,NY,RI
Chloromethane	CT,NH,NY,RI
Dibromomethane	H,NY
,2 Dichlorobenzene	CT,NY,RI
1,3-Dichlorobenzene	CT,NH,NY,RI
1,4 Dichlorobenzene	CT,NH,NY,RI
trans- ,4 Dichloro- butene	NH,NY
Dichlorodifluoromethane (Freon)	H,NY,RI
,1 Dichloroethane	CT,NH,NY,RI
1,2 Dichloroethane	CT,NH,NY,RI
1,1 Dichloroethylene	CT,NH,NY,RI
trans- ,2 Dichloroethylene	CT,NH,NY,RI
,2 Dichloropropane	CT,NH,NY,RI
2,2 Dichloropropane	NH,NY
1,1 Dichloropropene	H,NY
cis- ,3-Dichloropropene	CT,NH,NY,RI
trans- ,3-Dichloropropene	CT,NH,NY,RI
Ethylbenzene	CT,NH,NY,RI

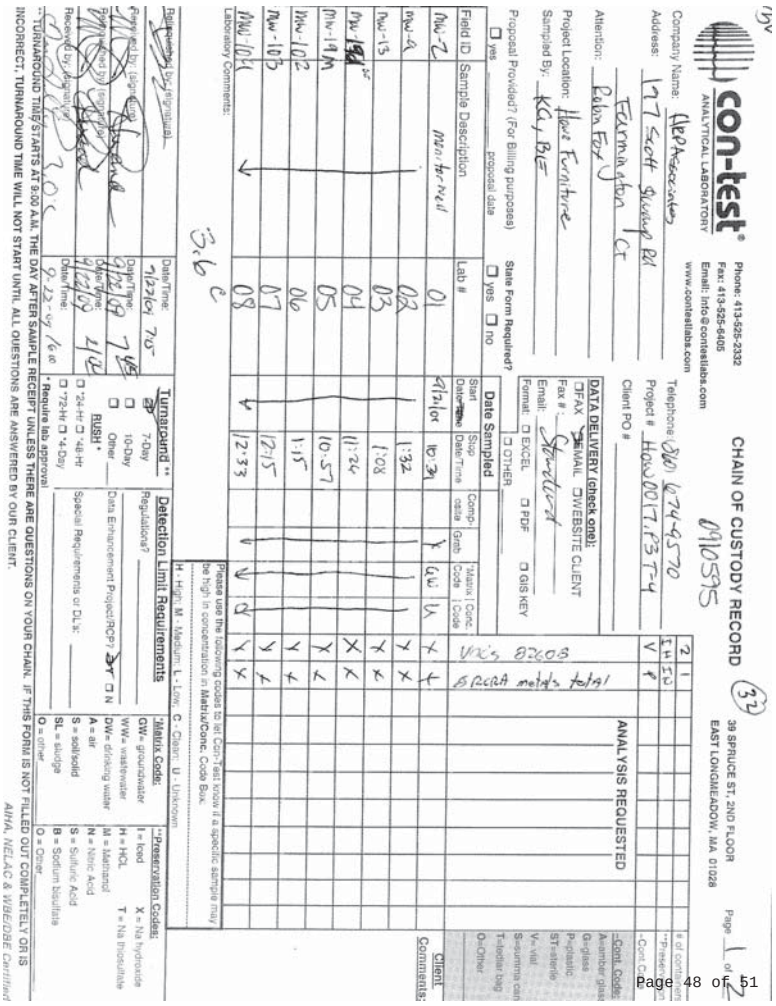
CE IFICA IONS

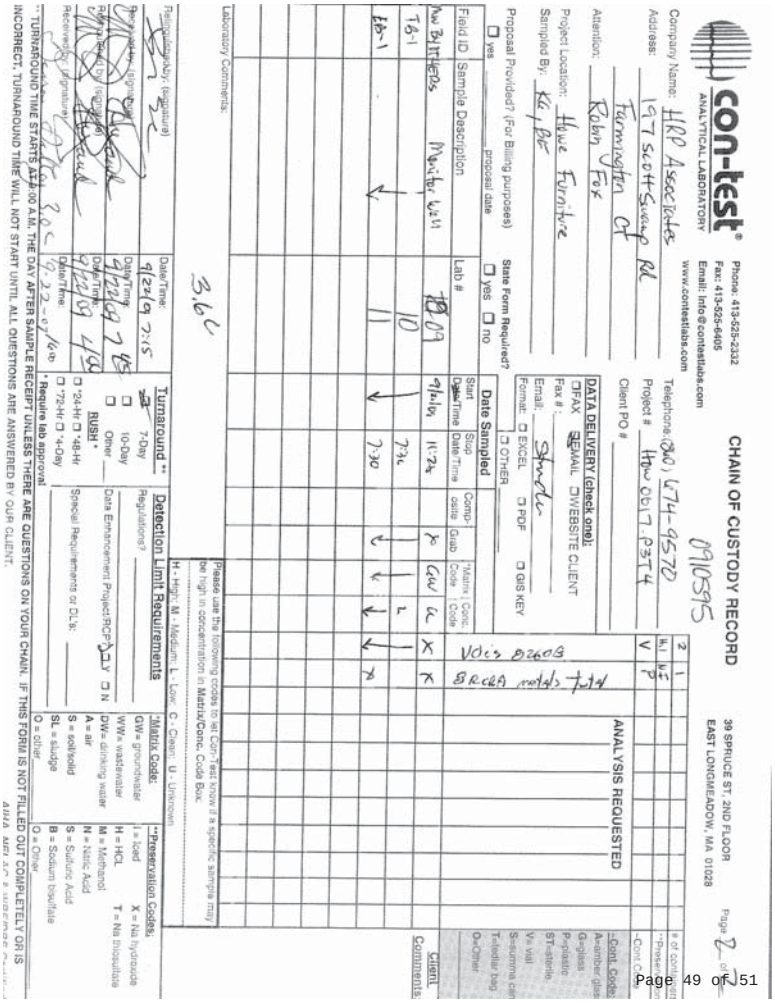
Certified nalyses included in this eport

nalyte	Certifications
6 260B r	
Hexachlorobutadiene	CT,NH,NY
Hexanone (M K)	CT,NH,NY
Isopropylbenzene (Cumene)	Y
p-Isopropyltoluene (p-Cymene)	CT,NH,NY
ethyl tert- utyl Ether (MTBE)	CT,NH,NY
Methylene Chloride	CT,NH,NY,RI
Methyl- pentanone (MIBK)	CT,NH,NY
Naphthalene	H,NY
n-Propylbenzene	CT,NH,NY
tyrene	CT,NH,NY
1,1,1,2 Tetrachloroethane	CT,NH,NY
1,1,2,2 Tetrachloroethane	CT,NH,NY,RI
Tetrachloroethylene	CT,NH,NY,RI
Toluene	CT,NH,NY,RI
,2,3-Trichlorobenzene	H,NY
1,2,4 Trichlorobenzene	CT,NH,NY
1,1,1 Trichloroethane	CT,NH,NY,RI
1,1,2 Trichloroethane	CT,NH,NY,RI
Trichloroethylene	CT,NH,NY,RI
Trichlorofluoromethane (Freon)	CT,NH,NY,RI
,2,3-Trichloropropane	NH,NY
1,2,4 Trimethylbenzene	NY
1,3,5 Trimethylbenzene	Y
Vinyl Chloride	CT,NH,NY,RI
m+p Xylene	CT,NH,NY,RI
o-Xylene	CT,NH,NY,RI

The CO TEST Environmental aboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	33	
A	Massachusetts DEP	MA1	30
CT	Connecticut Department of Public Health	PH-	30
Y	New York tate Department of Health	NELAP	
NH	New Hampshire Environmental ab	NELAP	
RI	Rhode Island Department of Health	AO	30
C	North Carolina Div. of ater Quality		/31
J	New Jersey DEP	MA0 ELAP	/30
	lorida Department of Health	E8 ELAP	/30
VT	Vermont Department of Health ead aboratory	36	30
A	State of ashington Department of Ecology	C2	3/ 3/





CHAIN OF CUSTODY RECORD

con-test® ANALYTICAL LABORATORY

Company Name: HRP Associates
Address: 197 Scott Swamp Rd Farmington CT
Attention: Robin Fox
Project Location: Howe Furniture
Sampled By: KG/BC
Telephone: (860) 674-9570
Fax #: HOW C017.P3T4
Client PO #:
Project #:

Proposal Provided? (For Billing purposes) ☐ yes ☐ proposal date
State Form Required? ☐ yes ☐ no
DATA DELIVERY (check one): ☐FAX ☐EMAIL ☐WEBSITE CLIENT
Fax #:
Email:
Format: ☐ EXCEL ☐ OTHER ☐ PDF ☐ GIS KEY

Laboratory Comments: 3.6C

Field ID / Sample Description	Lab #	Date Sampled: Start Date/Time	Stop Date/Time	Composite	Grab	Matrix / Conc. Code	# of containers	ANALYSIS REQUESTED
TB-1	10	9/21/09	11:30		X	W	2	VOCs 8260B
EB-1	11		7:30		X	W	4	BRCRA metals 7470

Turnaround: ☐ 7-Day ☐ 10-Day ☐ Other ☐ RUSH * ☐ 24-Hr ☐ 48-Hr ☐ 72-Hr ☐ 4-Day * Require lab approval

Detection Limit Requirements: Regulations? Data Enhancement Project/RCP? ☐ Y ☐ N Special Requirements or DL's:

*Matrix Code: GW = groundwater WW = wastewater DW = drinking water A = air S = soil/solid SL = sludge O = other

**Preservation Codes: I = Iced H = HCL M = Methanol N = Nitric Acid S = Sulfuric Acid B = Sodium bisulfate O = Other X = Na hydroxide T = Na thiosulfate

Please use the following codes to let Con-Test know if a specific sample may be high in concentration or Matrix/Conc. Code Box: H - High M - Medium L - Low C - Green U - Unknown

Client Comments:

Relinquished by: (Signature) Date/Time: 9/21/09 7:15
Received by: (Signature) Date/Time: 9/22/09 7:45
Relinquished by: (Signature) Date/Time: 9/22/09 2:45
Received by: (Signature) Date/Time: 9/22/09 4:00
Relinquished by: (Signature) Date/Time:
Received by: (Signature) Date/Time:

0910595

"TURNAROUND TIME STARTS AT 8:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT."

39 SPRUCE ST. 2ND FLOOR EAST LONGMEADOW, MA 01028

www.contestlabs.com

con-test® ANALYTICAL LABORATORY

39 Spruce St.
East Longmeadow, MA.
01028
P: 413-525-2332
F: 413-525-6405

Sample Receipt Checklist

CLIENT NAME: HRP associates RECEIVED BY: TS DATE: 9-22-09

1) Was the chain(s) of custody relinquished and signed? Yes No
2) Does the chain agree with the samples? Yes No
If not, explain: to receive 2 vials mw-15
3) Are all the samples in good condition? Yes No
If not, explain:
4) How were the samples received:
On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☐
Were the samples received in Temperature Compliance of (2-6°C)? Yes No
Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.0 C
5) Are there Dissolved samples for the lab to filter? Yes No
Who was notified _____ Date _____ Time _____
6) Are there any samples "On Hold"? Yes No Stored where:
7) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
Who was notified _____ Date _____ Time _____
8) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

Containers sent in to Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz clear jar	
500 mL Amber		4 oz clear jar	
250 mL Amber (8oz amber)		2 oz clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic	9	Air Cassette	
40 mL Vial - type listed below	27	Brass Sleeves	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Summa Cans	
Flashpoint bottle		Regulators	
Encore		Other plastic bottle	1

Laboratory Comments: pH ≤ 2

40 mL vials: # HCl 24 # Methanol _____
Bisulfate _____ # DI Water _____ Time and Date Frozen: _____
Thiosulfate _____ Unpreserved _____
Do all samples have the proper pH: Yes No N/A

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Co -Te t Analytical Laboratory ***Client:*** HRP As iate , In . (Private)
Project Location: Ho Furniture ***Project Number:*** 09I0595
Laboratory Sample ID(s): 09I0595-01 thru 09I0595-11 ***Sample Date(s):*** 09/21/2009

List RCP Methods Used:
SW-846 6010B, SW-846 6020A, SW-846 7470A, SW-846 8260B

1	For ac analytical th re re in this laboratory report package, re all pe ifie QA/QC perf rman riteria llo , in luding th require t to xplain any riteria alling utsid ac ptable guid lin , as pe ifie in th CTDEP th -spe ific Reas able Co id Proto l um ts?	☑ Yes ☐ No
1A	Were th th pe ifie pre rvatio an lding tim require ts t?	☑ Yes ☐ No
1B	VPH an EPH Meth ly: Was th PH an EPH th ucte ith ut ignificant ificatio (s Se tio 11.3 re pe tive RCP th)?	☐ Yes ☐ No ☑ N/A
2	Were all ample re ive by th laboratory in a itio iste t ith that ribe th as iate ain- -custo y um t(s)?	☑ Yes ☐ No
3	Were ample re ive at an appropriate te perature (< 6 gre C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC perf rman riteria pe ifie in th CTDEP Reas able Co id Proto l um ts ac ieve ?	☐ Yes ☑ No
5A	Were reporting limits pe ifie r re re th ain- -custo y?	☐ Yes ☑ No
5B	Were th reporting limits t?	☐ Yes ☐ No
6	For ac analytical th re re in this laboratory report package, re re ults reporte r all tituents id tifie in th th -spe ific analyte lists pre te in th Reas able Co id Proto l um ts?	☐ Yes ☑ No
7	Are proje t-spe ific atrix pike an laboratory uplicate in lud in this ata t?	☑ Yes ☐ No

Note For all que tio to ic th re po as No (with th xc ptio que tio 7), ad itio al in rmatio ust be provid in an attac arrative. If th an r to que tio 1, 1A, r 1B is No , th ata package t t th require ts r Reas able Co id " This rm ay t be altere an all que tio ust be an re .

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: M Erickson **Position:** Laboratory Director
Printed Name: Michael A. Erickson **Date:** 12/14/09
Name of Laboratory: Con-Test Analytical Laboratory

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

December ,

Robin ox
HRP Associates, Inc. (Private)
Scott wamp Road
Farmington, CT 3

Project ocation: Howe urniture - Norwalk
Client Job Number:
Project Number: HOW .P3 T -
aborator y Work Order Number: I0 8

Enclosed are results of analyses for samples received by the laboratory on eptember 3, If you have any questions concerning this report, please feel free to contact me.

incere ly,

Christopher J Hall
Project anager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

HRP Associates, Inc. (Private)
cott wamp Road
armington, CT 32
ATTN Robin ox

REPORT DATE:

PURCHASE ORDER N BER: -CT- 31

PROJECT N BER: HOW .P3 T -

ICA SUMMA

WORK ORDER N BER: I0 8

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laborator are found in this report.

PROJECT OCATION Howe urniture - Norwalk

IELD AMPLE #	LAB ID:	ATRIX	AMPLE DESCRIPTI ON	TEST	LAB
W-	I0 8-	round Water	Monitor Well	W-8	
				W-8 0A	
				W-8 0A	
				W-8 8	
W-	8-	round Water	Monitor Well I0	W-8	
				W-8 0A	
				W-8 0A	
				W-8 8	
W-8	9I0 8- 3	Ground Water	Monitor Well	W-8	
				W-8 0A	
				W-8 8	
W-	I0 8-	round Water	Monitor Well	W-8	
				W-8 0A	
				W-8 8	
W- 5	9I0 8- 5	Ground Water	Monitor Well	W-8	
				W-8 0A	
				W-8 8	
W-	I0 8-	round Water	Monitor Well	W-8	
				W-8 0A	
				W-8 8	
W-	8-	Wa nd	Monitor Well	W-8 I0	
				W-8 0A	
				W-8 8	
W-	I0 8- 8	Ground Water	Monitor Well	W-8	
				W-8 0A	
				W-8 0A	
				W-8 8	
W-	I0 8-	round Water	Monitor Well	W-8	
				W-8 0A	
				W-8 0A	
				W-8 8	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE IVE SUMMA

All reported results are within defined laborator qualit control objectives unless listed below or otherwise qualified in this report.

In method , only RCRA 8 metals were requested and reported.
In method , only As and Pb were requested and reported.

Revised report with Vinyl Chloride reporting limit lowered to meet proposed residential volatile criteria, calibration within criteria to lower level

Revised report for Arsenic and ead for samples - , - , - 8 and - with samp les re-preped and analyzed b ICP/ for lower reporting limits

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW- 260B

Qualifications:

Analyte is found in the associated blank as well as in the sample.

nalyte & Samples(s) Qualified:

Chloroform

531 - , 531 - D1, 5375- , 5375- D1

aborator fortified blank laborator control sample recover and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

nalyte & Samples(s) Qualified:

romoform

5 5 - , 5 5 - D1

aborator fortified blank laborator control sample recover and duplicate recover are outside of control limits. Reported value for this compound is likely to be biased on the low side.

nalyte & Samples(s) Qualified:

romoform, Chlorodibromomethane, Styrene, trans-1,3-Dichloropropene

9I0 8- [W-], I0 8- [W-], I0 8- 8[W-], 5375- K1, 5375- , 5375- D1, I0 8- [W-], I0 8- 3 [W-8],
I0 8- [W-], I0 8- 5[W- 5], 531 - K1, 531 - , 531 - D1

Either laborator fortified blank laborator control sample or duplicate recover is outside of control limits, but the other is within limits. RPD between the two CS results is within method specified criteria.

nalyte & Samples(s) Qualified:

1,1,2- richloro-1,2,2-trifluoroethane (Freon 113), 1,2-Dibromo-3-chloropropane (DBCP), Acetone, romoform, Chlorodibromomethane

5 5 - , 5375- D1, 531 - , 532 - D1, 5 5 - D1

aborator fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for an reported value for this compound.

nalyte & Samples(s) Qualified:

1,2,4- richlorobenzene, Hexachlorobutadiene, Naphthalene, Styrene

9I0 8- [W-], I0 8- [W-], I0 8- 8[W-], 5375- K1, 5375- , 5375- D1

Continuing calibration did not meet method specifications and was biased on the low side for this compound. ignificant uncertaint is associated with the reported value which is likely to be biased on the low side.

nalyte & Samples(s) Qualified:

1,2-Dibromoethane (EDB), 2,2-Dichloropropane, romoform, trans-1,3-Dichloropropene

9I0 8- [W-], 5 5 - K1, 5 5 - , 5 5 - D1, I0 8- [W-], I0 8- [W-], I0 8- 3 [W-8], I0 8- [W-],
I0 8- 5[W- 5], I0 8- [W-], I0 8- [W-], I0 8- 8[W-], 531 - K1, 531 - , 531 - D1, 532 - K1, 532 - ,
532 - D1, 5375- K1, 5375- , 5375- D1

Continuing calibration did not meet method specifications and was biased on the high side for this compound. ignificant uncertaint is associated with the reported value which is likely to be biased on the high side.

nalyte & Samples(s) Qualified:

1,1,2- richloro-1,2,2-trifluoroethane (Freon 113), richlorofluoromethane (Freon 11)

531 - , 531 - D1

Reanalysis of t rene performed on used vials with headspace resulting in acceptable QC recoveries. Reanalysis results were all non-detect as well

Analyte & Samples(s) Qualified:

Styrene

9I0 8- [W-], I0 8- [W-], I0 8- 8[W-]

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW- 260B

The CS recoveries for required CT reasonable confidence protocol (RCP) 8 compounds were a ll within limits specified b the method except for "difficult analytes" where control limits somewhere between - % are used and/or unless otherwise listed in this narrative: Difficult analytes: IBK, EK, Tert-butyl Alcohol, Acetone, ,4-Dioxane, Vinyl Chloride, Chloromethane, Dichlorodifluoromethane, -Hexanone, Naphthalene, romomethane, ,2-Dichloropropane and Tetrachloroethylene.

All reporting limits specified on the chain-of-custod were met except for Acrylonitrile, where the most protective criteria are not met since the laborator cannot achieve the required RCP calibration criteria at these levels, unless otherwise listed in this narrative.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laborator for testing
I certif that the analyses listed above, unless specifically listed as subcontracted, if an , were performed under m direction according to the approved methodologies listed in this document, and that based upon m inquir of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of m knowledge and belief, accurate and complete.

Daren J Damboragian
Laborator Manager

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture - Norwalk amp le Description: onitor Well Work Order: l0 8
Date Received: 3/
Field Sample #: MW- amp led:
Sample ID: 0910608-01
a mple atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	Results		Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	Analyst
Acetone	ND	5	µ			W-8 8	5	5 58	
Acrylonitrile	ND		µ			W-8 8	5	5 58	
Benzene	ND0	5	µ			W-8 8	5	5 58	
Bromobenzene	ND0	5	µ			W-8 8	5	5 58	
Bromodichloromethane	ND0	5	µ			W-8 8	5	5 58	
Bromoform	ND	3.	µ			W-8 8	5	5 58	
Bromomethane	ND		µ			W-8 8	5	5 58	
- utanone (MEK)	ND		µ			W-8 8	5	5 58	
n- ut ylbenzene	ND		µ			W-8 8	5	5 58	
sec- ut ylbenzene	ND		µ			W-8 8	5	5 58	
tert- ut ylbenzene	ND		µ			W-8 8	5	5 58	
Carbon Disulfide	ND7		µ			W-8 8	5	5 58	
Carbon Tetrachloride	ND		µ			W-8 8	5	5 58	
Chlorobenzene	ND0	5	µ			W-8 8	5	5 58	
Chlorodibromomethane	ND		µ			W-8 8	5	5 58	
Chloroethane		5	µ			W-8 8	5	5 58	
Chloroform	ND0	5	µ			W-8 8	5	5 58	
Chloromethane	ND0	5	µ			W-8 8	5	5 58	
-Chlorotoluene	ND0	5	µ			W-8 8	5	5 58	
-Chlorotoluene	ND0	5	µ			W-8 8	5	5 58	
,2 -Dibromo-3-chloropropane (DBCP)	ND0	5	µ			W-8 8	5	5 58	
,2 -Dibromoethane (EDB)	ND0	5	µ			W-8 8	5	5 58	
Dibromomethane	ND0	5	µ			W-8 8	5	5 58	
,2 -Dichlorobenzene	ND0	5	µ			W-8 8	5	5 58	
1,3-Dichlorobenzene	ND0	5	µ			W-8 8	5	5 58	
1,4-Dichlorobenzene	ND0	5	µ			W-8 8	5	5 58	
trans- ,4 -Dichloro- -butene	ND		µ			W-8 8	5	5 58	
Dichlorodifluoromethane (Freon)	ND0	5	µ			W-8 8	5	5 58	
,1 -Dichloroethane		5	µ			W-8 8	5	5 58	
1,2-Dichloroethane	ND0	5	µ			W-8 8	5	5 58	
1,1-Dichloroethylene	ND0	5	µ			W-8 8	5	5 58	
cis- ,2 -Dichloroethylene	ND0	5	µ			W-8 8	5	5 58	
trans- ,2 -Dichloroethylene	ND		µ			W-8 8	5	5 58	
1,2-Dichloropropane	ND0	5	µ			W-8 8	5	5 58	
1,3-Dichloropropane	ND0	5	µ			W-8 8	5	5 58	
2,2-Dichloropropane	ND0	5	µ		1V- 5	W-8 8	5	5 58	
1,1-Dichloropropene	ND0	5	µ			W-8 8	5	5 58	
cis- ,3 -Dichloropropene	ND0	5	µ			W-8 8	5	5 58	
trans- ,3 -Dichloropropene	ND	5	µ			W-8 8	5	5 58	
Ethylbenzene	ND0	5	µ			W-8 8	5	5 58	
Hexachlorobutadiene	ND		µ			W-8 8	5	5 58	
-Hexanone (M K)	ND		µ			W-8 8	5	5 58	
Isopropylbenzene (Cumene)	ND0	5	µ			W-8 8	5	5 58	
p-Isopropyltoluene (p-C mene)	ND0	5	µ			W-8 8	5	5 58	

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture - Norwalk amp le Description: onitor Well Work Order: l0 8
Date Received: 3/
Field Sample #: MW- amp led:
Sample ID: 0910608-01
Samnle atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	Results		Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	Analyst
Methyl tert- ut yl Ether (MTBE)	ND0	5	µ			W-8 8	5	5 58	
Methylene Chloride	ND	5	µ			W-8 8	5	5 58	
- eth yl- -pentanone (MIBK)	ND		µ			W-8 8	5	5 58	
Naphthalene	ND		µ			W-8 8	5	5 58	
n-Propylbenzene	ND		µ			W-8 8	5	5 58	
St rene	ND		µ			W-8 8	5	5 58	
1,1,1,2-Tetrachloroethane	ND0	5	µ			W-8 8	5	5 58	
1,1,2,2-Tetrachloroethane	ND0	5	µ			W-8 8	5	5 58	
Tetrachloroethylene	ND		µ			W-8 8	5	5 58	
Tetrah drofuran	ND1		µ			W-8 8	5	5 58	
Toluene	ND		µ			W-8 8	5	5 58	
1,2,3-Trichlorobenzene	ND0	5	µ			W-8 8	5	5 58	
1,2,4-Trichlorobenzene	ND0	5	µ			W-8 8	5	5 58	
1,1,1-Trichloroethane	8	5	µ			W-8 8	5	5 58	
1,1,2-Trichloroethane	ND0	5	µ			W-8 8	5	5 58	
Trichloroethylene	ND		µ			W-8 8	5	5 58	
Trichlorofluoromethane (Freon)	ND		µ			W-8 8	5	5 58	
1,2,3-Trichloropropane	ND0	5	µ			W-8 8	5	5 58	
1,1,2-Trichloro- ,2,2 -trifluoroethane (Freon 3)	ND0	5	µ			W-8 8	5	5 58	
,2,4 -Trimethylbenzene	ND0	5	µ			W-8 8	5	5 58	
,3, 5-Trimethylbenzene	ND0	5	µ			W-8 8	5	5 58	
Vinyl Chloride	ND		µ			W-8 8	5	5 58	
m+p Xylene	ND		µ			W-8 8	5	5 58	
o-Xylene	ND		µ			W-8 8	5	5 58	

Surrogates	% Recovery	Recovery imits	Flag		
,2 -Dichloroethane-d4		- 30		5	5 58
Toluene-d8		- 30		5	5 58
- romof luorobenzene		- 30		5	5 58

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture - Norwalk amp le Description: onitor Well Work Order: l0 8
Date Received: 3/
Field Sample #: MW- amp led:
Sample ID: 0910608-01
a mple atrix round Water

Metals nalyses (Total)

Analyte	Results		Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	Analyst
Arsenic	ND		mg			W-8	5	5	OP
Arsenic	ND		µ	5		W-8 0A	8	5	7 T KM
Barium	ND		mg			W-8	5	5	OP
Cadmium	ND	5	mg			W-8	5	5	OP
Chromium	ND		mg			W-8	5	5	OP
Lead	ND	5	µ	5		W-8 0A	8	5	7 T KM
Lead	ND	5	mg			W-8	5	5	OP
Mercur	ND		mg			W-8 0A		5 13:	PF
Selenium	ND	5	mg			W-8	5	5	OP
Silver	ND	5	mg			W-8	5	5	OP

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture - Norwalk amp le Description: onitor Well Work Order: l0 8
Date Received: 3/
Field Sample #: MW-7 Sampled: 5
Sample ID: 0910608-02
Sample atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	Results		Units	Dilution	Flag	Method	Date Prepared	Date/Time nalyzed	Analyst
Acetone	ND	5	µ			W-8 8		8	
Acrylonitrile	ND		µ			W-8 8		8	
enzene	ND0	5	µ			W-8 8		8	
romobenzene	ND0	5	µ			W-8 8		8	
romodich loromethane	ND0	5	µ			W-8 8		8	
Bromoform	ND	3.	µ			W-8 8		8	
romomethane	ND		µ			W-8 8		8	
- utanone (MEK)	ND		µ			W-8 8		8	
n- ut ylbenzene	ND		µ			W-8 8		8	
sec- ut ylbenzene	ND		µ			W-8 8		8	
tert- ut ylbenzene	ND		µ			W-8 8		8	
Carbon Disulfide	ND7		µ			W-8 8		8	
Carbon Tetrachloride	ND		µ			W-8 8		8	
Chlorobenzene	ND0	5	µ			W-8 8		8	
Chlorodibromomethane	ND		µ		-	W-8 8		8	
Chloroethane	ND0	5	µ			W-8 8		8	
Chloroform	ND0	5	µ			W-8 8		8	
Chloromethane	ND0	5	µ			W-8 8		8	
-Chlorotoluene	ND0	5	µ			W-8 8		8	
-Chlorotoluene	ND0	5	µ			W-8 8		8	
1,2-Dibromo-3-chloropropane (DBCP)	ND0	5	µ			W-8 8		8	
1,2-Dibromoethane (EDB)	ND0	5	µ			W-8 8		8	
Dibromomethane	ND0	5	µ			W-8 8		8	
1,2-Dichlorobenzene	ND0	5	µ			W-8 8		8	
1,3-Dichlorobenzene	ND0	5	µ			W-8 8		8	
1,4-Dichlorobenzene	ND0	5	µ			W-8 8		8	
trans- ,4 -Dichloro- -butene	ND		µ			W-8 8		8	
Dichlorodifluoromethane (Freon)		5	µ			W-8 8		8	
1,1-Dichloroethane		5	µ			W-8 8		8	
1,2-Dichloroethane	ND0	5	µ			W-8 8		8	
1,1-Dichloroethylene	8	5	µ			W-8 8		8	
cis- ,2 -Dichloroethylene		5	µ			W-8 8		8	
trans- ,2 -Dichloroethylene	ND		µ			W-8 8		8	
1,2-Dichloropropane	ND0	5	µ			W-8 8		8	
1,3-Dichloropropane	ND0	5	µ			W-8 8		8	
2,2-Dichloropropane	ND0	5	µ		1V- 5	W-8 8		8	
1,1-Dichloropropene	ND0	5	µ			W-8 8		8	
cis- ,3 -Dichloropropene	ND0	5	µ			W-8 8		8	
trans- ,3 -Dichloropropene	ND	5	µ			W-8 8		8	
Ethylbenzene	ND0	5	µ			W-8 8		8	
Hexachlorobutadiene	ND		µ			W-8 8		8	
-Hexanone (M K)	ND		µ			W-8 8		8	
Isopropylbenzene (Cumene)	ND0	5	µ			W-8 8		8	
p-Isopropyltoluene (p-C mene)	ND0	5	µ			W-8 8		8	

Project ocation: Howe urniture - Norwalk amp le Description: onitor Well Work Order: I0 8
Date Received: 3/
Field Sample #: MW-7 Sampled:
Sample I : 0910608-02
a mple atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	ilution	Flag	Method	ate Prepared	ate/Time nalyzed	nalyst
Methyl tert- ut yl Ether (MTBE)	ND0				W-8 8			8
eth ylene Chloride	ND				W-8 8			8
- eth yl- -pentanone (MIBK)	ND				W-8 8			8
Naphthalene	ND				W-8 8			8
n-Propylbenzene	ND				W-8 8			8
St rene	ND				W-8 8			8
,1,1,2 -Tetrachloroethane	ND0				W-8 8			8
,1,2,2 -Tetrachloroethane	ND0				W-8 8			8
Tetrachloroethylene	ND				W-8 8			8
Tetrah drofuran	ND1				W-8 8			8
Toluene	ND				W-8 8			8
,2,3 -Trichlorobenzene	ND0				W-8 8			8
,2,4 -Trichlorobenzene	ND0				W-8 8			8
,1,1 -Trichloroethane	ND0				W-8 8			8
,1,2 -Trichloroethane	ND0				W-8 8			8
Trichloroethylene	ND				W-8 8			8
Trichlorofluoromethane (Freon)	ND				W-8 8			8
,2,3 -Trichloropropane	ND0				W-8 8			8
,1,2 -Trichloro- ,2,2 -trifluoroethane (Freon 3)	ND0				W-8 8			8
,2,4 -Trimethylbenzene	ND0				W-8 8			8
,3, 5-Trimethylbenzene	ND0				W-8 8			8
Vinyl Chloride	ND				W-8 8			8
m+p Xylene	ND				W-8 8			8
o-Xylene	ND				W-8 8			8

Surrogates	% Recovery	Recovery imits	Flag
1,2-Dichloroethane-d4		- 30	8
Toluene-d8		- 30	8
- romof luorobenzene	93.8	- 30	8

Project ocation: Howe urniture - Norwalk amp le Description: onitor Well Work Order: I0 8
Date Received: 3/
Field Sample #: MW-7 Sampled:
Sample I : 0910608-02
Samnle atrix round Water

Metals nalyses (Total)

Analyte	esults	Units	ilution	Flag	Method	ate Prepared	ate/Time nalyzed	nalyst
Arsenic	ND	mg			W-8			OP
Arsenic	3				W-8 0A	8		KMT
arium	ND	mg			W-8			OP
Cadmium	ND	mg			W-8			OP
Chromium	ND	mg			W-8			OP
ead	ND	mg			W-8			OP
ead	ND				W-8 0A	8		KMT
ercur	ND	mg			W-8 0A		13:	PF
e lenium	ND	mg			W-8			OP
i lver	ND	mg			W-8		13	OP

Project ocation: Howe urniture - Norwalk amp le Description: onitor Well Work Order: I0 8
Date Received: 3/
Field Sample #: MW- amp led: 3
Sample I : 0910608-03
a mple atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	ilution	Flag	Method	ate Prepared	ate/Time nalyzed	nalyst
Acetone					W-8 8			8
Acrylonitrile	ND				W-8 8			8
enzene	ND0				W-8 8			58
romobenzene	ND0				W-8 8			58
romodich loromethane	ND0				W-8 8			58
romoform	ND 3.				W-8 8			58
romomethane	ND				W-8 8			58
- utanone (MEK)	ND				W-8 8			8
n- ut ylbenzene	ND				W-8 8			8
sec- ut ylbenzene	ND				W-8 8			8
tert- ut ylbenzene	ND				W-8 8			8
Carbon Disulfide	ND7				W-8 8			8
Carbon Tetrachloride	ND				W-8 8			8
Chlorobenzene	ND0				W-8 8			8
Chlorodibromomethane	ND			-	W-8 8			8
Chloroethane	ND0				W-8 8			8
Chloroform	ND0				W-8 8			8
Chloromethane	ND0				W-8 8			8
-Chlorotoluene	ND0				W-8 8			8
-Chlorotoluene	ND0				W-8 8			58
,2 -Dibromo-3-chloropropane (DBCP)	ND0				W-8 8			8
,2 -Dibromoethane (EDB)	ND0				W-8 8			8
Dibromomethane	ND0				W-8 8			58
,2 -Dichlorobenzene	ND0				W-8 8			8
,3 -Dichlorobenzene	ND0				W-8 8			58
,4 -Dichlorobenzene	ND0				W-8 8			8
trans- ,4 -Dichloro- -butene	ND				W-8 8			8
Dichlorodifluoromethane (Freon)	ND0				W-8 8			8
,1 -Dichloroethane					W-8 8			58
,2 -Dichloroethane	ND0				W-8 8			58
,1 -Dichloroethylene					W-8 8			58
cis- ,2 -Dichloroethylene					W-8 8			8
trans- ,2 -Dichloroethylene	ND				W-8 8			8
,2 -Dichloropropane	ND0				W-8 8			58
,3 -Dichloropropane	ND0				W-8 8			58
,2 -Dichloropropane	ND0			V -	W-8 8			58
,1 -Dichloropropene	ND0				W-8 8			58
cis- ,3 -Dichloropropene	ND0				W-8 8			8
trans- ,3 -Dichloropropene	ND				W-8 8			8
Ethylbenzene	ND0				W-8 8			8
Hexachlorobutadiene	ND				W-8 8			8
-Hexanone (M K)	ND				W-8 8			8
Isopropylbenzene (Cumene)	ND0				W-8 8			8
p-Isopropyltoluene (p-C mene)	ND0				W-8 8			8

Project ocation: Howe urniture - Norwalk amp le Description: onitor Well Work Order: I0 8
Date Received: 3/
Field Sample #: MW- amp led: 3
Sample I : 0910608-03
Sample atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	ilution	Flag	Method	ate Prepared	ate/Time nalyzed	nalyst
eth yl tert- ut yl Ether (MTBE)	ND0				W-8 8		58	
eth ylene Chloride	ND				W-8 8		58	
- eth yl- -pentanone (MIBK)	ND				W-8 8		8	
Naphthalene	ND				W-8 8		8	
n-Propylbenzene	ND				W-8 8		8	
St rene	ND				W-8 8		58	
,1,1,2 -Tetrachloroethane	ND0				W-8 8		58	
,1,2,2 -Tetrachloroethane	ND0				W-8 8		58	
Tetrachloroethylene	ND				W-8 8		8	
Tetrah drofuran	ND1				W-8 8		8	
Toluene	ND				W-8 8		8	
,2,3 -Trichlorobenzene	ND0				W-8 8		58	
,2,4 -Trichlorobenzene	ND0				W-8 8		58	
,1,1 -Trichloroethane	ND0				W-8 8		58	
,1,2 -Trichloroethane	ND0				W-8 8		58	
Trichloroethylene	ND				W-8 8		8	
Trichlorofluoromethane (Freon)	ND				W-8 8		8	
,2,3 -Trichloropropane	ND0				W-8 8		58	
,1,2 -Trichloro- ,2,2 -trifluoroethane (Freon 3)	ND0				W-8 8		58	
,2,4 -Trimethylbenzene	ND0				W-8 8		8	
,3, 5-Trimethylbenzene	ND0				W-8 8		8	
Vinyl Chloride	ND				W-8 8		8	
m+p Xylene	ND				W-8 8		8	
o-Xylene	ND				W-8 8		8	

Surrogates	% Recovery	Recovery imits	Flag
,2 -Dichloroethane-d4		- 30	58
Toluene-d8		- 30	8
- romof luorobenzene		- 30	8

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture - Norwalk amp le Description: onitor Well Work Order: I0 8

Date Received: 3/

Field Sample #: MW- amp led: 3

Sample I : 0910608-03

a mple atrix round Water

Metals nalyses (Total)

Analyte	esults	Units	ilution	Flag	Method	ate Prepared	ate/Time nalyzed	nalyst
Arsenic	ND	mg			W-8			OP
arium	ND	mg			W-8			OP
Cadmium	ND	mg			W-8			OP
Chromium	ND	mg			W-8			OP
ead	ND	mg			W-8			OP
ercur	ND	mg			W-8	0A		PF 13:
e lenium	ND	mg			W-8			OP
i lver	ND	mg			W-8			OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture - Norwalk amp le Description: onitor Well Work Order: I0 8

Date Received: 3/

Field Sample #: MW-10 Sampled:

Sample I : 0910608-04

Samnle atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	ilution	Flag	Method	ate Prepared	ate/Time nalyzed	nalyst
Acetone	ND				W-8 8			8
Acrylonitrile	ND				W-8 8			8
enzene	ND0				W-8 8			8
romobenzene	ND0				W-8 8			8
romodich loromethane	ND0				W-8 8			8
romoform	ND	3.			W-8 8			8
romomethane	ND				W-8 8			8
- utanone (MEK)	ND				W-8 8			8
n- ut ylbenzene	ND				W-8 8			8
sec- ut ylbenzene	ND				W-8 8			8
tert- ut ylbenzene	ND				W-8 8			8
Carbon Disulfide	ND7				W-8 8			8
Carbon Tetrachloride	ND				W-8 8			8
Chlorobenzene	ND0				W-8 8			8
Chlorodibromomethane	ND			-	W-8 8			8
Chloroethane	ND0				W-8 8			8
Chloroform	ND0				W-8 8			8
Chloromethane	ND0				W-8 8			8
-Chlorotoluene	ND0				W-8 8			8
-Chlorotoluene	ND0				W-8 8			8
,2 -Dibromo-3-chloropropane (DBCP)	ND0				W-8 8			8
,2 -Dibromoethane (EDB)	ND0				W-8 8			8
Dibromomethane	ND0				W-8 8			8
,2 -Dichlorobenzene	ND0				W-8 8			8
,3 -Dichlorobenzene	ND0				W-8 8			8
,4 -Dichlorobenzene	ND0				W-8 8			8
trans- ,4 -Dichloro- -butene	ND				W-8 8			8
Dichlorodifluoromethane (Freon)	30				W-8 8			8
,1 -Dichloroethane	ND0				W-8 8			8
,2 -Dichloroethane	ND0				W-8 8			8
,1 -Dichloroethylene	ND0				W-8 8			8
cis- ,2 -Dichloroethylene					W-8 8			8
trans- ,2 -Dichloroethylene	ND				W-8 8			8
,2 -Dichloropropane	ND0				W-8 8			8
,3 -Dichloropropane	ND0				W-8 8			8
,2 -Dichloropropane	ND0			V -	W-8 8			8
,1 -Dichloropropene	ND0				W-8 8			8
cis- ,3 -Dichloropropene	ND0				W-8 8			8
trans- ,3 -Dichloropropene	ND				W-8 8			8
Ethylbenzene	ND0				W-8 8			8
Hexachlorobutadiene	ND				W-8 8			8
-Hexanone (M K)	ND				W-8 8			8
Isopropylbenzene (Cumene)	ND0				W-8 8			8
p-Isopropyltoluene (p-C mene)	ND0				W-8 8			8

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture - Norwalk amp le Description: onitor Well Work Order: I0 8

Date Received: 3/

Field Sample #: MW-10 Sampled:

Sample I : 0910608-04

a mple atrix round Water

Volatile Organic Compounds by GC/MS

nalyte	esults	Units	ilution	Flag	Method	ate Prepared	ate/Time nalyzed	Analyst
Methyl tert- ut yl Ether (MTBE)	ND0				W-8 8		8	
eth ylene Chloride	ND				W-8 8		8	
- eth yl- -pentanone (MIBK)	ND				W-8 8		8	
Naphthalene	ND				W-8 8		8	
n-Propylbenzene	ND				W-8 8		8	
St rene	ND				W-8 8		8	
,1,1,2 -Tetrachloroethane	ND0				W-8 8		8	
,1,2,2 -Tetrachloroethane	ND0				W-8 8		8	
Tetrachloroethylene	ND				W-8 8		8	
Tetrah drofuran	ND1				W-8 8		8	
Toluene	ND				W-8 8		8	
,2,3 -Trichlorobenzene	ND0				W-8 8		8	
,2,4 -Trichlorobenzene	ND0				W-8 8		8	
,1,1 -Trichloroethane	ND0				W-8 8		8	
,1,2 -Trichloroethane	ND0				W-8 8		8	
Trichloroethylene					W-8 8		8	
Trichlorofluoromethane (Freon)	ND				W-8 8		8	
,2,3 -Trichloropropane	ND0				W-8 8		8	
,1,2 -Trichloro- ,2,2 -trifluoroethane (Freon 3)					W-8 8		8	
,2,4 -Trimethylbenzene	ND0				W-8 8		8	
,3, 5-Trimethylbenzene	ND0				W-8 8		8	
Vinyl Chloride	ND				W-8 8		8	
m+p Xylene	ND				W-8 8		8	
o-Xylene	ND				W-8 8		8	

Surrogates	% Recovery	Recovery imits	Flag	
1,2-Dichloroethane-d4		- 30		8
Toluene-d8		- 30		8
- romof luorobenzene	93.	- 30		8

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture - Norwalk amp le Description: onitor Well Work Order: I0 8

Date Received: 3/

Field Sample #: MW-10 Sampled:

Sample I : 0910608-04

a mple atrix round Water

Metals nalyses (Total)

Analyte	esults	Units	ilution	Flag	Method	ate Prepared	ate/Time nalyzed	Analyst
Arsenic	ND	mg			W-8		3	5OP
arium		mg			W-8		:3	5OP
Cadmium	ND	mg			W-8		3	5OP
Chromium	ND	mg			W-8		3	5OP
ead	ND	mg			W-8		:3	5OP
ercur	ND	mg			W-8	0A	13:	PF
e lenium	ND	mg			W-8		:3	5OP
i lver	ND	mg			W-8		:3	5OP

Project ocation: Howe urniture - Norwalk amp le Description: onitor Well Work Order: I0 8
Date Received: 3/
Field Sample #: MW-15 Sampled:
Sample I : 0910608-05
a mple atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	ilution	Flag	Method	ate Prepared	ate/Time nalyzed	nalyst
Acetone	8				W-8 8		8	
Acrylonitrile	ND				W-8 8		8	
enzene	ND0				W-8 8		58	
romobenzene	ND0				W-8 8		58	
romodich loromethane	ND0				W-8 8		58	
romoform	ND	3.			W-8 8		58	
romomethane	ND				W-8 8		58	
- utanone (MEK)	ND				W-8 8		8	
n- ut ylbenzene	ND				W-8 8		8	
sec- ut ylbenzene	ND				W-8 8		8	
tert- ut ylbenzene	ND				W-8 8		8	
Carbon Disulfide	ND7				W-8 8		8	
Carbon Tetrachloride	ND				W-8 8		8	
Chlorobenzene	ND0				W-8 8		8	
Chlorodibromomethane	ND			-	W-8 8		8	
Chloroethane	ND0				W-8 8		8	
Chloroform	ND0				W-8 8		8	
Chloromethane	ND0				W-8 8		8	
-Chlorotoluene	ND0				W-8 8		8	
-Chlorotoluene	ND0				W-8 8		58	
,2 -Dibromo-3-chloropropane (DBCP)	ND0				W-8 8		8	
,2 -Dibromoethane (EDB)	ND0				W-8 8		8	
Dibromomethane	ND0				W-8 8		58	
,2 -Dichlorobenzene	ND0				W-8 8		8	
,3 -Dichlorobenzene	ND0				W-8 8		58	
,4 -Dichlorobenzene	ND0				W-8 8		8	
trans- ,4 -Dichloro- -butene	ND				W-8 8		8	
Dichlorodifluoromethane (Freon)	ND0				W-8 8		8	
,1 -Dichloroethane	ND0				W-8 8		58	
,2 -Dichloroethane	ND0				W-8 8		58	
,1 -Dichloroethylene	ND0				W-8 8		58	
cis- ,2 -Dichloroethylene	ND0				W-8 8		8	
trans- ,2 -Dichloroethylene	ND				W-8 8		8	
,2 -Dichloropropane	ND0				W-8 8		58	
,3 -Dichloropropane	ND0				W-8 8		58	
,2 -Dichloropropane	ND0			V -	W-8 8		58	
,1 -Dichloropropene	ND0				W-8 8		58	
cis- ,3 -Dichloropropene	ND0				W-8 8		8	
trans- ,3 -Dichloropropene	ND				W-8 8		8	
Ethylbenzene	ND0				W-8 8		8	
Hexachlorobutadiene	ND				W-8 8		8	
-Hexanone (M K)	ND				W-8 8		8	
Isopropylbenzene (Cumene)	ND0				W-8 8		8	
p-Isopropyltoluene (p-C mene)	ND0				W-8 8		8	

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture - Norwalk amp le Description: onitor Well Work Order: I0 8
Date Received: 3/
Field Sample #: MW-15 Sampled:
Sample I : 0910608-05
Samnle atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	ilution	Flag	Method	ate Prepared	ate/Time nalyzed	nalyst
eth yl tert- ut yl Ether (MTBE)	ND0				W-8 8		58	
eth ylene Chloride	ND				W-8 8		58	
- eth yl- -pentanone (MIBK)	ND				W-8 8		8	
Naphthalene	ND				W-8 8		8	
n-Propylbenzene	ND				W-8 8		8	
St rene	ND				W-8 8		58	
,1,1,2 -Tetrachloroethane	ND0				W-8 8		58	
,1,2,2 -Tetrachloroethane	ND0				W-8 8		58	
Tetrachloroethylene	ND				W-8 8		8	
Tetrah drofuran	ND1				W-8 8		8	
Toluene	ND				W-8 8		8	
,2,3 -Trichlorobenzene	ND0				W-8 8		58	
,2,4 -Trichlorobenzene	ND0				W-8 8		58	
,1,1 -Trichloroethane	ND0				W-8 8		58	
,1,2 -Trichloroethane	ND0				W-8 8		58	
Trichloroethylene	ND				W-8 8		8	
Trichlorofluoromethane (Freon)	ND				W-8 8		8	
,2,3 -Trichloropropane	ND0				W-8 8		58	
,1,2 -Trichloro- ,2,2 -trifluoroethane (Freon 3)	ND0				W-8 8		58	
,2,4 -Trimethylbenzene	ND0				W-8 8		8	
,3, 5-Trimethylbenzene	ND0				W-8 8		8	
Vinyl Chloride	ND				W-8 8		8	
m+p Xylene	ND				W-8 8		8	
o-Xylene	ND				W-8 8		8	

Surrogates	% Recovery	Recovery imits	Flag	
,2 -Dichloroethane-d4		- 30		58
Toluene-d8		- 30		8
- romof luorobenzene	93.	- 30		8

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture - Norwalk amp le Description: onitor Well Work Order: I0 8
Date Received: 3/
Field Sample #: MW-15 Sampled:
Sample I : 0910608-05
a mple atrix round Water

Metals nalyses (Total)

Analyte	esults	Units	ilution	Flag	Method	ate Prepared	ate/Time nalyzed	nalyst
Arsenic	ND	mg			W-8		39	OP
arium	ND	mg			W-8		:39	OP
Cadmium	ND	mg			W-8		39	OP
Chromium	ND	mg			W-8		39	OP
ead	ND	mg			W-8		:39	OP
ercur	ND	mg			W-8 0A		13:34	PF
e lenium	ND	mg			W-8		:39	OP
i lver	ND	mg			W-8		:39	OP

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture - Norwalk amp le Description: onitor Well Work Order: I0 8
Date Received: 3/
Field Sample #: MW-1 Sampled:
Sample I : 0910608-06
Sample atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	ilution	Flag	Method	ate Prepared	ate/Time nalyzed	nalyst
Acetone	ND				W-8 8		3:	
Acrylonitrile	ND				W-8 8		3:	
enzene	ND0				W-8 8		23:	
romobenzene	ND0				W-8 8		23:	
romodich loromethane	ND0				W-8 8		23:	
romoform	ND	3.		- , V -	W-8 8		3:	
romomethane	ND				W-8 8		23:	
- utanone (MEK)	ND				W-8 8		3:	
n- ut ylbenzene	ND				W-8 8		3:	
sec- ut ylbenzene	ND				W-8 8		3:	
tert- ut ylbenzene	ND				W-8 8		3:	
Carbon Disulfide	ND7				W-8 8		3:	
Carbon Tetrachloride	ND				W-8 8		3:	
Chlorobenzene	ND0				W-8 8		3:	
Chlorodibromomethane	ND			-	W-8 8		3:	
Chloroethane	ND0				W-8 8		3:	
Chloroform	ND0				W-8 8		3:	
Chloromethane	ND0				W-8 8		3:	
-Chlorotoluene	ND0				W-8 8		3:	
-Chlorotoluene	ND0				W-8 8		3:	
,2 -Dibromo-3-chloropropane (DBCP)	ND0				W-8 8		23:	
,2 -Dibromoethane (EDB)	ND0				W-8 8		23:	
Dibromomethane	ND0				W-8 8		3:	
,2 -Dichlorobenzene	ND0				W-8 8		23:	
,3 -Dichlorobenzene	ND0				W-8 8		23:	
,4 -Dichlorobenzene	ND0				W-8 8		23:	
trans- ,4 -Dichloro- -butene	ND				W-8 8		3:	
Dichlorodifluoromethane (Freon)	ND0				W-8 8		3:	
,1 -Dichloroethane					W-8 8		23:	
,2 -Dichloroethane	ND0				W-8 8		23:	
,1 -Dichloroethylene	ND0				W-8 8		23:	
cis- ,2 -Dichloroethylene	30				W-8 8		3:	
trans- ,2 -Dichloroethylene	ND				W-8 8		3:	
,2 -Dichloropropane	ND0				W-8 8		23:	
,3 -Dichloropropane	ND0				W-8 8		23:	
,2 -Dichloropropane	ND0			V -	W-8 8		23:	
,1 -Dichloropropene	ND0				W-8 8		23:	
cis- ,3 -Dichloropropene	ND0				W-8 8		3:	
trans- ,3 -Dichloropropene	ND			- , V -	W-8 8		3:	
Ethylbenzene	ND0				W-8 8		3:	
Hexachlorobutadiene	ND			1R-	W-8 8		23:	
-Hexanone (M K)	ND				W-8 8		3:	
Isopropylbenzene (Cumene)	ND0				W-8 8		3:	
p-Isopropyltoluene (p-C mene)	ND0				W-8 8		3:	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture - Norwalk amp le Description: onitor Well Work Order: I0 8

Date Received: 3/

Field Sample #: MW-1 Sampled:

Samnle I : 0910608-06

a mnle atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	ilution	Flag	Method	ate Prepared	ate/Time nalyzed	nalyst
Methyl tert- ut yl Ether (MTBE)	ND0				W-8 8		23:	
eth ylene Chloride	ND				W-8 8		23:	
- eth yl- -pentanone (MIBK)	ND				W-8 8		3:	
Naphthalene	ND			1R-	W-8 8		23:	
n-Propylbenzene	ND				W-8 8		3:	
St rene	ND			- ,R - ,Z-	W-8 8		3:	
,1,1,2 -Tetrachloroethane	ND0				W-8 8		23:	
,1,2,2 -Tetrachloroethane	ND0				W-8 8		23:	
Tetrachloroethylene	ND				W-8 8		3:	
Tetrah drofuran	ND1				W-8 8		3:	
Toluene	ND				W-8 8		3:	
,2,3 -Trichlorobenzene	ND0				W-8 8		23:	
,2,4 -Trichlorobenzene	ND0			R -	W-8 8		23:	
,1,1 -Trichloroethane	ND0				W-8 8		23:	
,1,2 -Trichloroethane	ND0				W-8 8		23:	
Trichloroethylene	ND				W-8 8		3:	
Trichlorofluoromethane (Freon)	ND				W-8 8		3:	
,2,3 -Trichloropropane	ND0				W-8 8		23:	
,1,2 -Trichloro- ,2,2 -trifluoroethane (Freon 3)	8				W-8 8		23:	
,2,4 -Trimethylbenzene	ND0				W-8 8		23:	
,3, 5-Trimethylbenzene	ND0				W-8 8		23:	
Vinyl Chloride	ND				W-8 8		3:	
m+p Xylene	ND				W-8 8		3:	
o-Xylene	ND				W-8 8		3:	

Surrogates	% Recovery	Recovery imits	Flag	
1,2-Dichloroethane-d4		- 30		3:
Toluene-d8		- 30		3:
- romof luorobenzene	8	- 30		3:

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture - Norwalk amp le Description: onitor Well Work Order: I0 8

Date Received: 3/

Field Sample #: MW-1 Sampled:

Samnle I : 0910608-06

Samnle atrix round Water

Metals nalyses (Total)

Analyte	esults	Units	ilution	Flag	Method	ate Prepared	ate/Time nalyzed	nalyst
Arsenic	ND	mg			W-8			OP
arium	ND	mg			W-8			OP
Cadmium	ND	mg			W-8			OP
Chromium	ND	mg			W-8			OP
ead	ND	mg			W-8			OP
ercur	ND	mg			W-8	0A	13:36	PF
e lenium	ND	mg			W-8			OP
i lver	ND	mg			W-8		43	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture - Norwalk amp le Description: onitor Well Work Order: I0 8

Date Received: 3/

Field Sample #: MW-17 Sampled: 3

Sample I : 0910608-07

a mple atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	ilution	Flag	Method	ate Prepared	ate/Time nalyzed	nalyst
Acetone	ND				W-8 8		3:30	
Acrylonitrile	ND				W-8 8		3:30	
enzene	ND0				W-8 8		23:30	
romobenzene	ND0				W-8 8		23:30	
romodich loromethane	ND0				W-8 8		23:30	
romoform	ND	3.		- , V -	W-8 8		3:30	
romomethane	ND				W-8 8		23:30	
- utanone (MEK)	ND				W-8 8		3:30	
n- ut ylbenzene	ND				W-8 8		3:30	
sec- ut ylbenzene	ND				W-8 8		3:30	
tert- ut ylbenzene	ND				W-8 8		3:30	
Carbon Disulfide	ND7				W-8 8		3:30	
Carbon Tetrachloride	ND				W-8 8		3:30	
Chlorobenzene	ND0				W-8 8		3:30	
Chlorodibromomethane	ND			-	W-8 8		3:30	
Chloroethane	ND0				W-8 8		3:30	
Chloroform	ND0				W-8 8		3:30	
Chloromethane	ND0				W-8 8		3:30	
-Chlorotoluene	ND0				W-8 8		3:30	
-Chlorotoluene	ND0				W-8 8		23:30	
,2 -Dibromo-3-chloropropane (DBCP)	ND0				W-8 8		3:30	
,2 -Dibromoethane (EDB)	ND0				W-8 8		3:30	
Dibromomethane	ND0				W-8 8		23:30	
,2 -Dichlorobenzene	ND0				W-8 8		3:30	
,3 -Dichlorobenzene	ND0				W-8 8		23:30	
,4 -Dichlorobenzene	ND0				W-8 8		3:30	
trans- ,4 -Dichloro- -butene	ND				W-8 8		3:30	
Dichlorodifluoromethane (Freon)	ND0				W-8 8		3:30	
,1 -Dichloroethane	ND0				W-8 8		23:30	
,2 -Dichloroethane	ND0				W-8 8		23:30	
,1 -Dichloroethylene	ND0				W-8 8		23:30	
cis- ,2 -Dichloroethylene	ND0				W-8 8		3:30	
trans- ,2 -Dichloroethylene	ND				W-8 8		3:30	
,2 -Dichloropropane	ND0				W-8 8		23:30	
,3 -Dichloropropane	ND0				W-8 8		23:30	
,2 -Dichloropropane	ND0			V -	W-8 8		23:30	
,1 -Dichloropropene	ND0				W-8 8		23:30	
cis- ,3 -Dichloropropene	ND0				W-8 8		3:30	
trans- ,3 -Dichloropropene	ND			- , V -	W-8 8		3:30	
Ethylbenzene	ND0				W-8 8		3:30	
Hexachlorobutadiene	ND			1R-	W-8 8		23:30	
-Hexanone (M K)	ND				W-8 8		3:30	
Isopropylbenzene (Cumene)	ND0				W-8 8		3:30	
p-Isopropyltoluene (p-C mene)	ND0				W-8 8		3:30	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation: Howe urniture - Norwalk amp le Description: onitor Well Work Order: I0 8

Date Received: 3/

Field Sample #: MW-17 Sampled: 3

Sample I : 0910608-07

Sample atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	ilution	Flag	Method	ate Prepared	ate/Time nalyzed	nalyst
eth yl tert- ut yl Ether (MTBE)	ND0				W-8 8		23:30	
eth ylene Chloride	ND				W-8 8		23:30	
- eth yl- -pentanone (MIBK)	ND				W-8 8		3:30	
Naphthalene	ND			1R-	W-8 8		23:30	
n-Propylbenzene	ND				W-8 8		3:30	
St rene	ND			- ,R - ,Z-	W-8 8		3:30	
,1,1,2 -Tetrachloroethane	ND0				W-8 8		23:30	
,1,2,2 -Tetrachloroethane	ND0				W-8 8		23:30	
Tetrachloroethylene	ND				W-8 8		3:30	
Tetrah drofuran	ND1				W-8 8		3:30	
Toluene	ND				W-8 8		3:30	
,2,3 -Trichlorobenzene	ND0				W-8 8		23:30	
,2,4 -Trichlorobenzene	ND0			R -	W-8 8		23:30	
,1,1 -Trichloroethane	ND0				W-8 8		23:30	
,1,2 -Trichloroethane	ND0				W-8 8		23:30	
Trichloroethylene	ND				W-8 8		3:30	
Trichlorofluoromethane (Freon)	ND				W-8 8		3:30	
,2,3 -Trichloropropane	ND0				W-8 8		23:30	
,1,2 -Trichloro- ,2,2 -trifluoroethane (Freon 3)	ND0				W-8 8		23:30	
,2,4 -Trimethylbenzene	ND0				W-8 8		3:30	
,3, 5-Trimethylbenzene	ND0				W-8 8		3:30	
Vinyl Chloride	ND				W-8 8		3:30	
m+p Xylene	ND				W-8 8		3:30	
o-Xylene	ND				W-8 8		3:30	

Surrogates	% Recovery	Recovery imits	Flag	
,2 -Dichloroethane-d4		- 30		23:30
Toluene-d8		- 30		3:30
- romof luorobenzene	93.	- 30		3:30

Project ocation: Howe urniture - Norwalk amp le Description: onitor Well Work Order: I0 8
Date Received: 3/
Field Sample #: MW-17 Sampled: 3
Sample I : 0910608-07
a mple atrix round Water

Metals nalyses (Total)

Analyte	esults	Units	ilution	Flag	Method	ate Prepared	ate/Time nalyzed	nalyst
Arsenic	ND	mg			W-8			OP
arium	ND	mg			W-8			OP
Cadmium	ND	mg			W-8			OP
Chromium	ND	mg			W-8			OP
Lead	ND	mg			W-8			OP
Mercur	ND	mg			W-8 0A		13:3 8	MPF
e lenium	ND	mg			W-8			OP
Silver	ND	mg			W-8			OP

Project ocation: Howe urniture - Norwalk amp le Description: onitor Well Work Order: I0 8
Date Received: 3/
Field Sample #: MW-20 Sampled: 8
Sample I : 0910608-08
Samole atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	ilution	Flag	Method	ate Prepared	ate/Time nalyzed	nalyst
Acetone	ND				W-8 8			
Acrylonitrile	ND				W-8 8			
enzene	ND0				W-8 8			
romobenzene	ND0				W-8 8			
romodich loromethane	ND0				W-8 8			
romoform	ND	3.		- , V -	W-8 8			
romomethane	ND				W-8 8			
- utanone (MEK)	ND				W-8 8			
n- ut ylbenzene	ND				W-8 8			
sec- ut ylbenzene	ND				W-8 8			
tert- ut ylbenzene	ND				W-8 8			
Carbon Disulfide	ND7				W-8 8			
Carbon Tetrachloride	ND				W-8 8			
Chlorobenzene	ND0				W-8 8			
Chlorodibromomethane	ND			-	W-8 8			
Chloroethane	ND0				W-8 8			
Chloroform	ND0				W-8 8			
Chloromethane	ND0				W-8 8			
-Chlorotoluene	ND0				W-8 8			
-Chlorotoluene	ND0				W-8 8			
,2 -Dibromo-3-chloropropane (DBCP)	ND0				W-8 8			
1,2-Dibromoethane (EDB)	ND0				W-8 8			
Dibromomethane	ND0				W-8 8			
,2 -Dichlorobenzene	ND0				W-8 8			
1,3-Dichlorobenzene	ND0				W-8 8			
1,4-Dichlorobenzene	ND0				W-8 8			
trans- ,4 -Dichloro- -butene	ND				W-8 8			
Dichlorodifluoromethane (Freon)	ND0				W-8 8			
,1 -Dichloroethane	ND0				W-8 8			
1,2-Dichloroethane	ND0				W-8 8			
1,1-Dichloroethylene	ND0				W-8 8			
cis- ,2 -Dichloroethylene					W-8 8			
trans- ,2 -Dichloroethylene	ND				W-8 8			
,2 -Dichloropropane	ND0				W-8 8			
1,3-Dichloropropane	ND0				W-8 8			
2,2-Dichloropropane	ND0			V -	W-8 8			
1,1-Dichloropropene	ND0				W-8 8			
cis- ,3 -Dichloropropene	ND0				W-8 8			
trans- ,3 -Dichloropropene	ND			- , V -	W-8 8			
Ethylbenzene	ND0				W-8 8			
Hexachlorobutadiene	ND			R -	W-8 8			
-Hexanone (M K)	ND				W-8 8			
Isopropylbenzene (Cumene)	ND0				W-8 8			
p-Isopropyltoluene (p-C mene)	ND0				W-8 8			

Project ocation: Howe urniture - Norwalk amp le Description: onitor Well Work Order: I0 8
Date Received: 3/
Field Sample #: MW-20 Sampled: 8
Sample I : 0910608-08
a mple atrix round Water

Volatile Organic Compounds by GC/MS

nalyte	esults	Units	ilution	Flag	Method	ate Prepared	ate/Time nalyzed	Analyst
Methyl tert- ut yl Ether (MTBE)	3				W-8 8			
eth ylene Chloride	ND				W-8 8			
- eth yl- -pentanone (MIBK)	ND				W-8 8			
Naphthalene	ND			R -	W-8 8			
n-Propylbenzene	ND				W-8 8			
St rene	ND			- , R - , Z-	W-8 8			
,1,1,2 -Tetrachloroethane	ND0				W-8 8			
,1,2,2 -Tetrachloroethane	ND0				W-8 8			
Tetrachloroethylene					W-8 8			
Tetrah drofuran	ND1				W-8 8			
Toluene	ND				W-8 8			
,2,3 -Trichlorobenzene	ND0				W-8 8			
1,2,4-Trichlorobenzene	ND0			R -	W-8 8			
1,1,1-Trichloroethane	ND0				W-8 8			
1,1,2-Trichloroethane	ND0				W-8 8			
Trichloroethylene	8				W-8 8			
Trichlorofluoromethane (Freon)	ND				W-8 8			
,2,3 -Trichloropropane	ND0				W-8 8			
1,1,2-Trichloro- ,2,2 -trifluoroethane (Freon 3)	ND0				W-8 8			
,2,4 -Trimethylbenzene	ND0				W-8 8			
1,3,5-Trimethylbenzene	ND0				W-8 8			
Vinyl Chloride	ND				W-8 8			
m+p Xylene	ND				W-8 8			
o-Xylene	ND				W-8 8			

Surrogates	% Recovery	Recovery imits	Flag
1,2-Dichloroethane-d4		- 30	
Toluene-d8	03	- 30	
- romof luorobenzene	93.	- 30	

Project ocation: Howe urniture - Norwalk amp le Description: onitor Well Work Order: I0 8
Date Received: 3/
Field Sample #: MW-20 Sampled: 8
Sample I : 0910608-08
Sample atrix round Water

Metals nalyses (Total)

Analyte	esults	Units	ilution	Flag	Method	ate Prepared	ate/Time nalyzed	Analyst
Arsenic					W-8 0A	8		KMT
Arsenic	ND	mg			W-8			OP
arium		mg			W-8			OP
Cadmium	ND	mg			W-8			OP
Chromium	ND	mg			W-8			OP
ead	ND				W-8 0A	8		KMT
Lead	ND	mg			W-8			OP
Mercur	ND	mg			W-8 0A		13:39	PF
e lenium	ND	mg			W-8			OP
i lver	ND	mg			W-8			OP

Project ocation: Howe urniture - Norwalk amp le Description: onitor Well Work Order: I0 8
Date Received: 3/
Field Sample #: MW-101 Sampled: 34
Sample I : 0910608-09
a mple atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	ilution	Flag	Method	ate Prepared	ate/Time nalyzed	nalyst
Acetone	ND2				W-8 8			
Acrylonitrile	ND1				W-8 8			
Benzene	ND2				W-8 8			
romobenzene	ND2				W-8 8			
romodich loromethane	ND2				W-8 8			
romoform	ND2				W-8 8			
Bromomethane	ND2				W-8 8			
- utanone (MEK)	ND1				W-8 8			
n- ut ylbenzene	ND2				W-8 8			
sec- ut ylbenzene	ND				W-8 8			
tert- ut ylbenzene	ND				W-8 8			
Carbon Disulfide	ND2				W-8 8			
Carbon Tetrachloride	ND2				W-8 8			
Chlorobenzene	ND2				W-8 8			
Chlorodibromomethane	ND				W-8 8			
Chloroethane	ND2				W-8 8			
Chloroform	ND2				W-8 8			
Chloromethane	ND2				W-8 8			
-Chlorotoluene	ND2				W-8 8			
-Chlorotoluene	ND2				W-8 8			
,2 -Dibromo-3-chloropropane (DBCP)	ND2				W-8 8			
,2 -Dibromoethane (EDB)	ND2			V-	W-8 8			
Dibromomethane	ND2				W-8 8			
,2 -Dichlorobenzene	ND2				W-8 8			
,3 -Dichlorobenzene	ND2				W-8 8			
1,4-Dichlorobenzene	ND2				W-8 8			
trans- ,4 -Dichloro- -butene	ND1				W-8 8			
Dichlorodifluoromethane (Freon)	ND2				W-8 8			
,1 -Dichloroethane	ND2				W-8 8			
1,2-Dichloroethane	ND2				W-8 8			
1,1-Dichloroethylene	ND2				W-8 8			
cis- ,2 -Dichloroethylene	ND2				W-8 8			
trans- ,2 -Dichloroethylene	ND				W-8 8			
,2 -Dichloropropane	ND2				W-8 8			
1,3-Dichloropropane	ND2				W-8 8			
2,2-Dichloropropane	ND2				W-8 8			
1,1-Dichloropropene	ND2				W-8 8			
cis- ,3 -Dichloropropene	ND2				W-8 8			
trans- ,3 -Dichloropropene	ND2			V-	W-8 8			
Ethylbenzene	ND2				W-8 8			
Hexachlorobutadiene	ND				W-8 8			
-Hexanone (M K)	ND1				W-8 8			
Isopropylbenzene (Cumene)	ND2				W-8 8			
p-Isopropyltoluene (p-C mene)	ND2				W-8 8			

Project ocation: Howe urniture - Norwalk amp le Description: onitor Well Work Order: I0 8
Date Received: 3/
Field Sample #: MW-101 Sampled: 34
Sample I : 0910608-09
Samole atrix round Water

Volatile Organic Compounds by GC/MS

Analyte	esults	Units	ilution	Flag	Method	ate Prepared	ate/Time nalyzed	nalyst
eth yl tert- ut yl Ether (MTBE)	ND2				W-8 8			
eth ylene Chloride	ND2				W-8 8			
- eth yl- -pentanone (MIBK)	ND1				W-8 8			
Naphthalene	ND2				W-8 8			
n-Propylbenzene	ND				W-8 8			
St rene	ND2				W-8 8			
1,1,1,2-Tetrachloroethane	ND				W-8 8			
,1,2,2 -Tetrachloroethane	ND2				W-8 8			
Tetrachloroethylene	ND				W-8 8			
Tetrah drofuran	ND				W-8 8			
Toluene	ND				W-8 8			
,2,3 -Trichlorobenzene	ND1				W-8 8			
,2,4 -Trichlorobenzene	ND2				W-8 8			
,1,1 -Trichloroethane	ND2				W-8 8			
,1,2 -Trichloroethane	ND2				W-8 8			
Trichloroethylene	ND				W-8 8			
Trichlorofluoromethane (Freon)	ND1				W-8 8			
,2,3 -Trichloropropane	ND2				W-8 8			
,1,2 -Trichloro- ,2,2 -trifluoroethane (Freon 3)	ND2				W-8 8			
,2,4 -Trimethylbenzene	ND2				W-8 8			
,3, 5-Trimethylbenzene	ND2				W-8 8			
Vinyl Chloride	ND				W-8 8			
m+p Xylene	ND1				W-8 8			
o-Xylene	ND				W-8 8			

Surrogates	% Recovery	eco very imits	Flag
,2 -Dichloroethane-d4	03	- 30	
Toluene-d8		- 30	
- romof luorobenzene		- 30	

Project ocation: Howe urniture - Norwalk amp le Description: onitor Well Work Order: I0 8
Date Received: 3/
Field Sample #: MW-101 Sampled: 34
Sample I : 0910608-09
a mple atrix round Water

Metals nalyses (Total)

nalyte	esults	Units	ilution	Flag	Method	ate Prepared	ate/Time nalyzed	nalyst
Arsenic	ND				W-8 0A	8		T KM
Arsenic	ND	mg			W-8			OP
arium	ND	mg			W-8			OP
Cadmium	ND	mg			W-8			OP
Chromium	ND	mg			W-8			OP
ead	ND	mg			W-8			OP
ead	ND				W-8 0A	8		T KM
ercur	ND	mg			W-8 0A		13:	PF
e lenium	ND	mg			W-8			OP
i lver	ND	mg			W-8			OP

Sample xtraction ata

Prep Method: SW- 3005A-SW- 010B

Lab Number [Field ID]	BatchD	Initial [mL]	Final [mL]	ate
I0 8- [W-]	37			
9I0 8- [W-]	37			
9I0 8- 3 [W-8]	37			
I0 8- [W-]	37			
I0 8- [W-]	37			
I0 8- [W-]	3			
I0 8- [W-]	37			
I0 8- 8 [W-]	37			
I0 8- [W-]	37			

Prep Method: SW- 3005A-SW- 020A

a b Number [Field ID]	BatchD	Initial [mL]	Final [mL]	ate
I0 8- [W-]	8 8			8
9I0 8- [W-]	8 8			8
9I0 8- 8 [W-]	8 8			8
9I0 8- [W-]	8 8			8

Prep Method: SW- 7 70A Prep-SW- 7 70A

a b Number [Field ID]	BatchD	Initial [mL]	Final [mL]	ate
I0 8- [W-]	31			
I0 8- [W-]	31			
I0 8- 3 [W-8]	31			
I0 8- [W-]	31			
I0 8- [W-]	31			
I0 8- [W-]	31			
I0 8- [W-]	31			
I0 8- 8 [W-]	31			
I0 8- [W-]	31			

Prep Method: SW- 5030B-SW- 260B

a b Number [Field ID]	BatchD	Initial [mL]	Final [mL]	ate
I0 8- [W-]	31			
I0 8- 3 [W-8]	31			
I0 8- [W-]	31			
I0 8- [W-]	31			

Prep Method: SW- 5030B-SW- 260B

a b Number [Field ID]	BatchD	Initial [mL]	Final [mL]	ate
I0 8- [W-]	32			

Prep Method: SW- 5030B-SW- 260B

a b Number [Field ID]	BatchD	Initial [mL]	Final [mL]	ate
I0 8- [W-]	37			
I0 8- [W-]	37			

Sample xtraction ata

Prep Method: SW- 5030B-SW- 260B

a b Number [Field ID]	BatchD	Initial [mL]	Final [mL]	ate
I0 8- 8 [W-]	37			

Prep Method: SW- 5030B-SW- 260B

a b Number [Field ID]	BatchD	Initial [mL]	Final [mL]	ate
I0 8- [W-]				

QU IT CO O

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	nits	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
atc h B005310 - SW- 5030B										
lan k (B005310- K1)				Prepared:	Analyzed:					
Acetone	ND									
Acrylonitrile	ND									
enzene	ND									
romobenzene	ND									
romodich loromethane	ND									
romoform	ND	3.								
romomethane	ND									
- utanone (MEK)	ND									
n- ut ylbenzene	ND									
sec- ut ylbenzene	ND									
tert- ut ylbenzene	ND									
Carbon Disulfide	ND									
Carbon Tetrachloride	ND									
Chlorobenzene	ND									
Chlorodibromomethane	ND									-
Chloroethane	ND									
Chloroform										
Chloromethane	ND									
-Chlorotoluene	ND									
-Chlorotoluene	ND									
,2 -Dibromo-3-chloropropane (DBCP)	ND									
,2 -Dibromoethane (EDB)	ND									
Dibromomethane	ND									
,2 -Dichlorobenzene	ND									
,3 -Dichlorobenzene	ND									
,4 -Dichlorobenzene	ND									
trans- ,4 -Dichloro- -butene	ND									
Dichlorodifluoromethane (Freon)	ND									
,1 -Dichloroethane	ND									
,2 -Dichloroethane	ND									
,1 -Dichloroethylene	ND									
cis- ,2 -Dichloroethylene	ND									
trans- ,2 -Dichloroethylene	ND									
,2 -Dichloropropane	ND									
,3 -Dichloropropane	ND									
,2 -Dichloropropane	ND									V-
,1 -Dichloropropene	ND									
cis- ,3 -Dichloropropene	ND									
trans- ,3 -Dichloropropene	ND									
Ethylbenzene	ND									
Hexachlorobutadiene	ND									
-Hexanone (M K)	ND									
Isopropylbenzene (Cumene)	ND									
p-Isopropyltoluene (p-C mene)	ND									
eth yl tert- ut yl Ether (MTBE)	ND									
eth ylene Chloride	ND									
- eth yl- -pentanone (MIBK)	ND									
Naphthalene	ND									
n-Propylbenzene	ND									
St rene	ND									
,1,1,2 -Tetrachloroethane	ND									
,1,2,2 -Tetrachloroethane	ND									

QU IT CO O

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	nits	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
atc h B005310 - SW- 5030B										
lan k (B005310- K1)				Prepared:	Analyzed:					
Tetrachloroethylene	ND									
Tetrah drofuran	ND									
Toluene	ND									
,2,3 -Trichlorobenzene	ND									
,2,4 -Trichlorobenzene	ND									
,1,1 -Trichloroethane	ND									
,1,2 -Trichloroethane	ND									
Trichloroethylene	ND									
Trichlorofluoromethane (Freon)	ND									
,2,3 -Trichloropropane	ND									
,1,2 -Trichloro- ,2,2 -trifluoroethane (Freon 3)	ND									
,2,4 -Trimethylbenzene	ND									
,3, 5-Trimethylbenzene	ND									
Vinyl Chloride	ND									
m+p Xylene	ND									
o-Xylene	ND									
urrogate: ,2-Dichloroethane-d4	*25.7*				3		- 30			
urrogate: Toluene-d8	*25.5*						- 30			
urrogate: - romof luorobenzene	*23.5*						- 30			
CS (B00 5310-BS1)				Prepared:	Analyzed:					
Acetone	8				8		-			†
Acrylonitrile							- 30			
enzene							- 30			
romobenzene	8				8		- 30			
romodich loromethane	8				8		- 30			
romoform		3.			**. 9**	*	- 30			-
romomethane	8				8		-			†
- utanone (MEK)							-			†
n- ut ylbenzene							- 30			
sec- ut ylbenzene							- 30			
tert- ut ylbenzene							- 30			
Carbon Disulfide							- 30			
Carbon Tetrachloride	8				8		- 30			
Chlorobenzene							- 30			
Chlorodibromomethane					**9.2**	*	- 30			-
Chloroethane							- 30			
Chloroform							- 30			
Chloromethane	8				8		-			†
-Chlorotoluene	3				3		- 30			
-Chlorotoluene							- 30			
,2 -Dibromo-3-chloropropane (DBCP)							- 30			
,2 -Dibromoethane (EDB)							- 30			
Dibromomethane							- 30			
,2 -Dichlorobenzene							- 30			
,3 -Dichlorobenzene							- 30			
,4 -Dichlorobenzene							- 30			
trans- ,4 -Dichloro- -butene	8				8		- 30			
Dichlorodifluoromethane (Freon)							-			†
,1 -Dichloroethane							- 30			
,2 -Dichloroethane	8				8		- 30			
,1 -Dichloroethylene	8				8		- 30			

QU IT CO O

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	nits	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B005310 - SW- 5030B										
CS (B00 5310-BS1)				Prepared:	Analyzed:					
cis- ,2 -Dichloroethylene							- 30			
trans- ,2 -Dichloroethylene							- 30			
,2 -Dichloropropane	8					8	- 30			
,3 -Dichloropropane							- 30			
,2 -Dichloropropane							- 30			V- †
,1 -Dichloropropene							- 30			
cis- ,3 -Dichloropropene							- 30			
trans- ,3 -Dichloropropene	13					.3	- 30			
Ethylbenzene							- 30			
Hexachlorobutadiene							- 30			
-Hexanone (M K)							-			†
Isopropylbenzene (Cumene)	8					8	- 30			
p-Isopropyltoluene (p-C mene)							- 30			
eth yl tert- ut yl Ether (MTBE)	8					8	- 30			
eth ylene Chloride							- 30			
- eth yl- -pentanone (MIBK)							-			†
Naphthalene	8 8					88	- 30			†
n-Propylbenzene							- 30			
St rene							- 30			
,1,1,2 -Tetrachloroethane							- 30			
,1,2,2 -Tetrachloroethane	8					8	- 30			
Tetrachloroethylene							-			†
Tetrah drofuran							- 30			
Toluene							- 30			
,2,3 -Trichlorobenzene							- 30			
,2,4 -Trichlorobenzene	3					3	- 30			
,1,1 -Trichloroethane							- 30			
,1,2 -Trichloroethane							- 30			
Trichloroethylene							- 30			
Trichlorofluoromethane (Freon)	8					8	- 30			V-
,2,3 -Trichloropropane							- 30			
,1,2 -Trichloro- ,2,2 -trifluoroethane (Freon 3)	13.					30	- 30			V-
,2,4 -Trimethylbenzene	8					8	- 30			
,3, 5-Trimethylbenzene							- 30			
Vinyl Chloride	58					8	-			†
m+p Xylene							- 30			
o-Xylene							- 30			
urrogate: ,2-Dichloroethane-d4	*24.9*						- 30			
urrogate: Toluene-d8	*25.6*						- 30			
urrogate: - romof luorobenzene	*23.8*					3	- 30			
LCS up (B005310-BSD1)				Prepared:	Analyzed:					
Acetone	03					3	-	3		†
Acrylonitrile	3					3	- 30			
enzene	43					.3	- 30			
romobenzene							- 30			
romodich loromethane	8					8	- 30			
romoform		3.					- 30			
romomethane							-	8		†
- utanone (MEK)							-			†
n- ut ylbenzene	.3 8					3. 8	- 30	3.3		
sec- ut ylbenzene	8					8	- 30	3.		

QU IT CO O

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	nits	pi ke Level	ource Result	%REC	%REC imits	RPD	RPD imit	Notes
atc h B005310 - SW- 5030B										
CS up (B005310-BSD1)				Prepared:	Analyzed:					
tert- ut ylbenzene	8					8	- 30			
Carbon Disulfide	8					8	- 30	3.		
Carbon Tetrachloride							- 30			
Chlorobenzene							- 30	3.		
Chlorodibromomethane	3					**. 3**	* - 30	8		-
Chloroethane							- 30			
Chloroform							- 30			
Chloromethane							-			†
-Chlorotoluene							- 30			
-Chlorotoluene							- 30			
,2 -Dibromo-3-chloropropane (DBCP)							- 30	3.		
,2 -Dibromoethane (EDB)							- 30			
Dibromomethane							- 30			
,2 -Dichlorobenzene							- 30	3.		
,3 -Dichlorobenzene							- 30			
,4 -Dichlorobenzene							- 30	3. 8		
trans- ,4 -Dichloro- -butene	8 58					85 8	- 30			
Dichlorodifluoromethane (Freon)							-			†
,1 -Dichloroethane							- 30			
,2 -Dichloroethane							- 30	3.		
,1 -Dichloroethylene							- 30			
cis- ,2 -Dichloroethylene							- 30			
trans- ,2 -Dichloroethylene							- 30	32		
,2 -Dichloropropane	39					3.	- 30			
,3 -Dichloropropane							- 30	39		
,2 -Dichloropropane							- 30			V- †
,1 -Dichloropropene							- 30			
cis- ,3 -Dichloropropene	3					3	- 30	8		
trans- ,3 -Dichloropropene	3					3	- 30			
Ethylbenzene	3					3	- 30	8		
Hexachlorobutadiene							- 30	36		
-Hexanone (M K)							-	8 8		†
Isopropylbenzene (Cumene)							- 30	3		
p-Isopropyltoluene (p-C mene)							- 30			
eth yl tert- ut yl Ether (MTBE)							- 30	3.		
eth ylene Chloride	8 8					88	- 30			
- eth yl- -pentanone (MIBK)							-	3		†
Naphthalene	8 63					8 .3	- 30			†
n-Propylbenzene							- 30			
St rene							- 30			
,1,1,2 -Tetrachloroethane	8					8	- 30	8		
,1,2,2 -Tetrachloroethane	.3					3	- 30			
Tetrachloroethylene							-			†
Tetrah drofuran							- 30	3.		
Toluene							- 30			
,2,3 -Trichlorobenzene	8					8	- 30	8		
,2,4 -Trichlorobenzene							- 30	32		
,1,1 -Trichloroethane	8 63					8 .3	- 30	39		
,1,2 -Trichloroethane							- 30	3. 3		
Trichloroethylene	83					8.3	- 30			
Trichlorofluoromethane (Freon)	3					13	- 30			V-
,2,3 -Trichloropropane							- 30	3		

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QU IT CO O

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	nits	pi ke Level	ource Result	%REC	%REC imits	RPD	RPD imit	Notes
Batch B005310 - SW- 5030B										
CS up (B005310-BSD1)				Prepared:	Analyzed:					
,1,2 -Trichloro- ,2,2 -trifluoroethane (Freon 3)							- 30			V-
,2,4 -Trimethylbenzene	31					3.	- 30	3.		
,3, 5-Trimethylbenzene							- 30	8		
Vinyl Chloride							-	8.38		†
m+p Xylene							- 30			
o-Xylene							- 30	39		
urrogate: ,2-Dichloroethane-d4	*24.4*					8	- 30			
urrogate: Toluene-d8	*25.8*					3	- 30			
urrogate: - romof luorobenzene	*24.8*					3	- 30			
atc h B005327 - SW- 5030B										
lan k (B005327- K1)				Prepared:	Analyzed:					
Acetone	ND									
Acrylonitrile	ND									
enzene	ND									
romobenzene	ND									
Bromodichloromethane	ND									
romoform	ND	3.								
romomethane	ND									
- utanone (MEK)	ND									
n- ut ylbenzene	ND									
sec- ut ylbenzene	ND									
tert- ut ylbenzene	ND									
Carbon Disulfide	ND									
Carbon Tetrachloride	ND									
Chlorobenzene	ND									
Chlorodibromomethane	ND									
Chloroethane	ND									
Chloroform	ND									
Chloromethane	ND									
-Chlorotoluene	ND									
-Chlorotoluene	ND									
,2 -Dibromo-3-chloropropane (DBCP)	ND									
,2 -Dibromoethane (EDB)	ND									
Dibromomethane	ND									
,2 -Dichlorobenzene	ND									
,3 -Dichlorobenzene	ND									
1,4-Dichlorobenzene	3 ND									
trans- ,4 -Dichloro- -butene	ND									
Dichlorodifluoromethane (Freon)	ND									
,1 -Dichloroethane	ND									
1,2-Dichloroethane	ND									
,1 -Dichloroethylene	ND									
cis- ,2 -Dichloroethylene	ND									
trans- ,2 -Dichloroethylene	ND									
,2 -Dichloropropane	ND									
,3 -Dichloropropane	ND									
,2 -Dichloropropane	ND									V-
,1 -Dichloropropene	ND									
cis- ,3 -Dichloropropene	ND									
trans- ,3 -Dichloropropene	ND									

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QU IT CO O

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	nits	pi ke Level	ource Result	%REC	%REC imits	RPD	RPD imit	Notes
atc h B005327 - SW- 5030B										
lan k (B005327- K1)				Prepared:	Analyzed:					
Ethylbenzene	ND									
Hexachlorobutadiene	ND									
-Hexanone (M K)	ND									
Isopropylbenzene (Cumene)	ND									
p-Isopropyltoluene (p-C mene)	ND									
eth yl tert- ut yl Ether (MTBE)	ND									
eth ylene Chloride	ND									
- eth yl- -pentanone (MIBK)	ND									
Naphthalene	ND									
n-Propylbenzene	ND									
St rene	ND									
,1,1,2 -Tetrachloroethane	ND									
,1,2,2 -Tetrachloroethane	ND									
Tetrachloroethylene	ND									
Tetrah drofuran	ND									
Toluene	ND									
,2,3 -Trichlorobenzene	ND									
,2,4 -Trichlorobenzene	ND									
1,1,1-Trichloroethane	ND									
,1,2 -Trichloroethane	ND									
Trichloroethylene	ND									
Trichlorofluoromethane (Freon)	ND									
,2,3 -Trichloropropane	ND									
,1,2 -Trichloro- ,2,2 -trifluoroethane (Freon 13)	ND									
,2,4 -Trimethylbenzene	ND									
,3, 5-Trimethylbenzene	ND									
Vinyl Chloride	ND									
m+p Xylene	ND									
o-Xylene	ND									
urrogate: ,2-Dichloroethane-d4	*25.6*						- 30			
urrogate: Toluene-d8	*24.4*						- 30			
urrogate: - romof luorobenzene	*23.7*						- 30			
CS (B00 5327-BS1)				Prepared:	Analyzed:					
Acetone							-			†
Acrylonitrile							- 30			
enzene							- 30			
romobenzene							- 30			
romodich loromethane							- 30			
romoform	3	3.				3	- 30			
romomethane							-			†
- utanone (MEK)							-			†
n- ut ylbenzene	8					8	- 30			
sec- ut ylbenzene	3					3	- 30			
tert- ut ylbenzene							- 30			
Carbon Disulfide	8					8	- 30			
Carbon Tetrachloride	8					8	- 30			
Chlorobenzene	8					8	- 30			
Chlorodibromomethane							- 30			
Chloroethane	3					3	- 30			
Chloroform							- 30			
Chloromethane							-			†

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QU IT CO O

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	nits	pi ke Level	ource Result	%REC	%REC imits	RPD	RPD imit	Notes
atc h B005327 - SW- 5030B										
CS (B00 5327-BS1)				Prepared:	Analyzed:					
-Chlorotoluene							- 30			
-Chlorotoluene	8					8	- 30			
,2 -Dibromo-3-chloropropane (DBCP)	8					8	- 30			
,2 -Dibromoethane (EDB)							- 30			
Dibromomethane	8					8	- 30			
1,2-Dichlorobenzene							- 30			
,3 -Dichlorobenzene							- 30			
,4 -Dichlorobenzene							- 30			
trans- ,4 -Dichloro- -butene							- 30			
Dichlorodifluoromethane (Freon)							-			†
1,1-Dichloroethane							- 30			
1,2-Dichloroethane							- 30			
,1 -Dichloroethylene							- 30			
cis- ,2 -Dichloroethylene	3					3	- 30			
trans- ,2 -Dichloroethylene							- 30			
1,2-Dichloropropane							- 30			
1,3-Dichloropropane							- 30			
2,2-Dichloropropane							- 30			V- †
1,1-Dichloropropene	8					8	- 30			
cis- ,3 -Dichloropropene	8.38					83.8	- 30			
trans- ,3 -Dichloropropene							- 30			
Ethylbenzene							- 30			
Hexachlorobutadiene	8					8	- 30			
-Hexanone (M K)	3					3	-			†
Isopropylbenzene (Cumene)							- 30			
p-Isopropyltoluene (p-C mene)							- 30			
eth yl tert- ut yl Ether (MTBE)	3					03	- 30			
eth ylene Chloride	32					3.	- 30			
- eth yl- -pentanone (MIBK)							-			†
Naphthalene							- 30			†
n-Propylbenzene	8					8	- 30			
St rene							- 30			
,1,1,2 -Tetrachloroethane							- 30			
,1,2,2 -Tetrachloroethane							- 3			
Tetrachloroethylene							-			†
Tetrah drofuran							- 30			
Toluene							- 30			
,2,3 -Trichlorobenzene	3					03	- 30			
,2,4 -Trichlorobenzene							- 30			
,1,1 -Trichloroethane	8					8	- 30			
,1,2 -Trichloroethane							- 30			
Trichloroethylene							- 30			
Trichlorofluoromethane (Freon)							- 30			
,2,3 -Trichloropropane	3					.3	- 30			
,1,2 -Trichloro- ,2,2 -trifluoroethane (Freon 3)							- 30			
,2,4 -Trimethylbenzene	8					8	- 30			
,3, 5-Trimethylbenzene							- 30			
Vinyl Chloride							-			†
m+p Xylene							- 30			
o-Xylene							- 30			
urrogate: ,2-Dichloroethane-d4	*24.6*					8	- 30			

QU IT CO O

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	nits	pi ke Level	ource Result	%REC	%REC imits	RPD	RPD imit	Notes
atc h B005327 - SW- 5030B										
CS (B00 5327-BS1)				Prepared:	Analyzed:					
urrogate: Toluene-d8	*25.6*						- 30			
urrogate: - romof luorobenzene	*23.8*						- 30			
LCS up (B005327-BSD1)				Prepared:	Analyzed:					
Acetone	3					3	-			†
Acrylonitrile							- 30	8		
enzene							- 30			
romobenzene							- 30			
romodich loromethane	8					8	- 30	3		
romoform	8	3.				**9.8** *	- 30			-
romomethane							-	8 8		†
- utanone (MEK)							-	837		†
n- ut ylbenzene							- 30			
sec- ut ylbenzene	3					3	- 30	3 88		
tert- ut ylbenzene							- 30			
Carbon Disulfide							- 30			
Carbon Tetrachloride	88					8 8	- 30	3.		
Chlorobenzene							- 30	8		
Chlorodibromomethane							- 30			
Chloroethane							- 30	39		
Chloroform							- 30	8		
Chloromethane							-	37		†
-Chlorotoluene							- 30			
-Chlorotoluene	8					8	- 30			
,2 -Dibromo-3-chloropropane (DBCP)							- 30	8		
1,2-Dibromoethane (EDB)	8					8	- 30			
Dibromomethane	8					8	- 30	8		
,2 -Dichlorobenzene	8					8	- 30			
,3 -Dichlorobenzene							- 30			
1,4-Dichlorobenzene							- 30			
trans- ,4 -Dichloro- -butene	8 8					88	- 30	3.		
Dichlorodifluoromethane (Freon)							-			†
1,1-Dichloroethane							- 30	8		
,2 -Dichloroethane							- 30			
,1 -Dichloroethylene							- 30	3.		
cis- ,2 -Dichloroethylene							- 30	8		
trans- ,2 -Dichloroethylene							- 30	8		
,2 -Dichloropropane	8					8	- 30	3.		
,3 -Dichloropropane							- 30			
,2 -Dichloropropane	36					3.	- 30			V- †
,1 -Dichloropropene							- 30			3
cis- ,3 -Dichloropropene	8					8	- 30	3		
trans- ,3 -Dichloropropene	3					3	- 30			
Ethylbenzene							- 30	8		
Hexachlorobutadiene							- 30			
-Hexanone (M K)							-			†
Isopropylbenzene (Cumene)							- 30			
p-Isopropyltoluene (p-C mene)							- 30			
Methyl tert- ut yl Ether (MTBE)	3					03	- 30			
eth ylene Chloride							- 30			
- eth yl- -pentanone (MIBK)							-			†
Naphthalene							- 30	8		†

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QU IT CO O

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	nits	pi ke Level	ource Result	%REC	%REC imits	RPD	RPD imit	Notes
atc h B005327 - SW- 5030B										
CS up (B005327-BSD1)				Prepared:	Analyzed:					
n-Propylbenzene							- 30	83		
St rene							- 30			
,1,1,2 -Tetrachloroethane							- 30	88		
,1,2,2 -Tetrachloroethane							- 30			
Tetrachloroethylene							-			†
Tetrah drofuran							- 30			
Toluene							- 30			
,2,3 -Trichlorobenzene							- 30			
,2,4 -Trichlorobenzene							- 30	3.		
,1,1 -Trichloroethane							- 30	31		
,1,2 -Trichloroethane							- 30	3.		
Trichloroethylene							- 30			
Trichlorofluoromethane (Freon)	3					13	- 30			
1,2,3-Trichloropropane	8					8	- 30	3.		
,1,2 -Trichloro- ,2,2 -trifluoroethane (Freon 3)							- 30			
,2,4 -Trimethylbenzene							- 30			
,3, 5-Trimethylbenzene	8					8	- 3			
Vinyl Chloride	30					3.	-	8		†
m+p Xylene						8	- 30	8		
o-Xylene							- 3			
urrogate: ,2-Dichloroethane-d4	*24.9*						- 30			
urrogate: Toluene-d8	*25.5*						- 30			
urrogate: - romof luorobenzene	*23.9*						- 30			
atc h B005375 - SW- 5030B										
lan k (B005375- K1)				Prepared:	Ana lyzed:					
Acetone	ND									
Acrylonitrile	ND									
enzene	ND									
romobenzene	ND									
Bromodichloromethane	ND									
Bromoform	ND	3.								- , V -
romomethane	ND									
- utanone (MEK)	ND									
n- ut ylbenzene	ND									
sec- ut ylbenzene	ND									
tert- ut ylbenzene	ND									
Carbon Disulfide	ND									
Carbon Tetrachloride	ND									
Chlorobenzene	ND									
Chlorodibromomethane	ND									-
Chloroethane	ND									
Chloroform										
Chloromethane	ND									
-Chlorotoluene	ND									
-Chlorotoluene	ND									
,2 -Dibromo-3-chloropropane (DBCP)	ND									
,2 -Dibromoethane (EDB)	ND									
Dibromomethane	ND									
,2 -Dichlorobenzene	ND									
,3 -Dichlorobenzene	ND									

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QU IT CO O

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	nits	pi ke Level	ource Result	%REC	%REC imits	RPD	RPD imit	Notes
atc h B005375 - SW- 5030B										
lan k (B005375- K1)				Prepared:	Ana lyzed:					
,4 -Dichlorobenzene	ND									
trans- ,4 -Dichloro- -butene	ND									
Dichlorodifluoromethane (Freon)	ND									
,1 -Dichloroethane	ND									
,2 -Dichloroethane	ND									
,1 -Dichloroethylene	ND									
cis- ,2 -Dichloroethylene	ND									
trans- ,2 -Dichloroethylene	ND									
,2 -Dichloropropane	ND									
,3 -Dichloropropane	ND									
,2 -Dichloropropane	ND									V-
,1 -Dichloropropene	ND									
cis- ,3 -Dichloropropene	ND									
trans- ,3 -Dichloropropene	ND									- , V -
Ethylbenzene	ND									
Hexachlorobutadiene	ND									R-
-Hexanone (M K)	ND									
Isopropylbenzene (Cumene)	ND									
p-Isopropyltoluene (p-C mene)	ND									
eth yl tert- ut yl Ether (MTBE)	ND									
eth ylene Chloride	ND									
- eth yl- -pentanone (MIBK)	ND									
Naphthalene	ND									R-
n-Propylbenzene	ND									
St rene	ND									- , R -
,1,1,2 -Tetrachloroethane	ND									
,1,2,2 -Tetrachloroethane	ND									
Tetrachloroethylene	ND									
Tetrah drofuran	ND									
Toluene	ND									
,2,3 -Trichlorobenzene	ND									
,2,4 -Trichlorobenzene	ND									R-
,1,1 -Trichloroethane	ND									
,1,2 -Trichloroethane	ND									
Trichloroethylene	ND									
Trichlorofluoromethane (Freon)	ND									
1,2,3-Trichloropropane	ND									
,1,2 -Trichloro- ,2,2 -trifluoroethane (Freon 3)	ND									
,2,4 -Trimethylbenzene	ND									
,3, 5-Trimethylbenzene	ND									
Vinyl Chloride	ND									
m+p Xylene	ND									
o-Xylene	ND									
urrogate: ,2-Dichloroethane-d4	*25.4*						- 30			
urrogate: Toluene-d8	*25.3*						- 30			
urrogate: - romof luorobenzene	*23.3*					3.3	- 30			

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QU IT CO O

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	nits	pi ke Level	ource Result	%REC	%REC imits	RPD	RPD imit	Notes
atc h B005375 - SW- 5030B										
CS (B00 5375-BS1)				Prepared:	Ana lyzed:					
Acetone							-			†
Acrylonitrile							- 30			
Benzene	8					8	- 30			
Bromobenzene							- 30			
Bromodichloromethane	8					85	- 30			
romoform		3.				**5.6** *	- 30			- , V -
romomethane							-			†
- utanone (MEK)							-			†
n- ut ylbenzene							- 30			
sec- ut ylbenzene							- 30			
tert- ut ylbenzene							- 30			
Carbon Disulfide							- 30			
Carbon Tetrachloride							- 30			
Chlorobenzene							- 30			
Chlorodibromomethane						**.2** *	- 30			-
Chloroethane							- 30			
Chloroform							- 30			
Chloromethane	8 8					8 8	-			†
-Chlorotoluene							- 30			
-Chlorotoluene	3					03	- 30			
,2 -Dibromo-3-chloropropane (DBCP)							- 30			
,2 -Dibromoethane (EDB)							- 30			
Dibromomethane	3					03	- 30			
1,2-Dichlorobenzene							- 30			
,3 -Dichlorobenzene							- 30			
1,4-Dichlorobenzene							- 30			
trans- ,4 -Dichloro- -butene							- 30			
Dichlorodifluoromethane (Freon)							-			†
,1 -Dichloroethane							- 30			
1,2-Dichloroethane	8					8	- 30			
1,1-Dichloroethylene							- 30			
cis- ,2 -Dichloroethylene							- 30			
trans- ,2 -Dichloroethylene							- 30			
,2 -Dichloropropane							- 30			
,3 -Dichloropropane	3					03	- 30			
2,2-Dichloropropane	3					43.	- 30			V- †
1,1-Dichloropropene							- 30			
cis- ,3 -Dichloropropene	34					3.	- 30			
trans-1,3- ichloropropene						**.6** *	- 30			V- , -
Ethylbenzene							- 30			
Hexachlorobutadiene	3					3.	- 30			R-
-Hexanone (M K)							-			†
Isopropylbenzene (Cumene)							- 30			
p-Isopropyltoluene (p-C mene)	8					8	- 30			
eth yl tert- ut yl Ether (MTBE)	8					8	- 30			
eth ylene Chloride							- 30			
- eth yl- -pentanone (MIBK)	8					8	-			†
Naphthalene							- 30			R- †
n-Propylbenzene							- 30			
Styrene						**7.00** *	- 30			- , R -
,1,1,2 -Tetrachloroethane	8					8	- 30			
,1,2,2 -Tetrachloroethane	3					3	- 30			

QU IT CO O

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	nits	pi ke Level	ource Result	%REC	%REC imits	RPD	RPD imit	Notes
atc h B005375 - SW- 5030B										
CS (B00 5375-BS1)				Prepared:	Ana lyzed:					
Tetrachloroethylene							-			†
Tetrah drofuran	32					3.	- 30			
Toluene							- 30			
1,2,3-Trichlorobenzene							- 30			
1,2,4-Trichlorobenzene							- 30			R-
1,1,1-Trichloroethane	8 83					88.3	- 30			
,1,2 -Trichloroethane							- 30			
Trichloroethylene							- 30			
Trichlorofluoromethane (Freon)	8					8	- 30			
,2,3 -Trichloropropane	34					3.	- 30			
,1,2 -Trichloro- ,2,2 -trifluoroethane (Freon 3)							- 30			
,2,4 -Trimethylbenzene							- 30			
,3, 5-Trimethylbenzene							- 30			
Vinyl Chloride							-			†
m+p Xylene	8						- 30			
o-Xylene							- 30			
urrogate: ,2-Dichloroethane-d4	*24.7*					8	- 30			
urrogate: Toluene-d8	*25.5*						- 30			
urrogate: - romof luorobenzene	*24.0*						- 30			
CS up (B005375-BSD1)				Prepared:	Ana lyzed:					
Acetone							-			†
Acrylonitrile							- 30			
Benzene	8					8	- 30			
romobenzene							- 30			
romodich loromethane	8					8	- 30			
romoform	31	3.				**3.1** *	- 30	3.8		- , V -
romomethane							-			†
- utanone (MEK)	3.					3.	-	8		†
n- ut ylbenzene							- 30			
sec- ut ylbenzene	8					8	- 30	8		
tert- ut ylbenzene							- 30			
Carbon Disulfide							- 30			
Carbon Tetrachloride							- 30	32		
Chlorobenzene							- 30			
Chlorodibromomethane						**. 9** *	- 30			-
Chloroethane							- 30			
Chloroform							- 30			
Chloromethane	8.37					83.	-	30		†
-Chlorotoluene							- 30	8		
-Chlorotoluene							- 30			
1,2- ibromo-3-chloropropane (BCP)						**. 1** *	- 30			-
,2 -Dibromoethane (EDB)							- 30	3		
Dibromomethane							- 30			
,2 -Dichlorobenzene	3					03	- 30			
,3 -Dichlorobenzene							- 30			
1,4-Dichlorobenzene	8					8	- 30	8		
trans- ,4 -Dichloro- -butene							- 30	8		
Dichlorodifluoromethane (Freon)	8					58	-	3.		†
1,1-Dichloroethane							- 30			
,2 -Dichloroethane							- 30			
,1 -Dichloroethylene							- 30	3.		

QU IT CO O

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	nits	pi ke Level	ource Result	%REC	%REC imits	RPD	RPD imit	Notes
atc h B005375 - SW- 5030B										
CS up (B005375-BSD1)				Prepared:	Ana lyzed:					
cis- ,2 -Dichloroethylene							- 30			
trans- ,2 -Dichloroethylene	3					.3	- 30	31		
,2 -Dichloropropane							- 30	8		
,3 -Dichloropropane							- 30	8 8		
,2 -Dichloropropane	31					3.	- 30			V- †
,1 -Dichloropropene							- 30			
cis- ,3 -Dichloropropene	3					3	- 30			
trans-1,3- ichloropropene						**.6** *	- 30			V- , -
Ethylbenzene							- 30	39		
Hexachlorobutadiene							- 30	**25.4** *		R-
-Hexanone (M K)							-	3.		†
Isopropylbenzene (Cumene)							- 30	8		
p-Isopropyltoluene (p-C mene)	88					8 8	- 30			
eth yl tert- ut yl Ether (MTBE)							- 30	31		
eth ylene Chloride	8					8	- 30	88		
- eth yl- -pentanone (MIBK)							-			†
Naphthalene							- 30	**27.1** *		R- †
n-Propylbenzene	3					3	- 30	31		
Styrene						**5.40** *	- 30	**25.8** *		- , R -
,1,1,2 -Tetrachloroethane	8					8	- 30			
,1,2,2 -Tetrachloroethane							- 3			
Tetrachloroethylene	8					8	-	3		†
Tetrah drofuran	8					8	- 30			
Toluene							- 30	8		
,2,3 -Trichlorobenzene	8					8	- 30			
1,2,4- richlorobenzene						**9.9** *	- 30	**27.2** *		R-
,1,1 -Trichloroethane	8					8	- 30	37		
,1,2 -Trichloroethane							- 30			
Trichloroethylene							- 30			
Trichlorofluoromethane (Freon)							- 30			
,2,3 -Trichloropropane	8					8	- 30			
,1,2 -Trichloro- ,2,2 -trifluoroethane (Freon 3)							- 30			
,2,4 -Trimethylbenzene	39					3.	- 30	3		
,3, 5-Trimethylbenzene							- 30	8		
Vinyl Chloride							-			†
m+p Xylene	8						- 30			
o-Xylene							- 30	8		
urrogate: ,2-Dichloroethane-d4	*24.7*					8	- 30			
urrogate: Toluene-d8	*25.6*						- 30			
urrogate: - romof luorobenzene	*24.1*					.3	- 30			
atc h B005 50 - SW- 5030B										
lan k (B005 50- K1)				Prepared & Analyzed:						
Acetone	ND									
Acrylonitrile	ND									
enzene	ND									
romobenzene	ND									
romodich loromethane	ND									
romoform	ND									
romomethane	ND									
- utanone (MEK)	ND									

QU IT CO O

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	nits	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
atc h B005 50 - SW- 5030B										
lan k (B005 50- K1)				Prepared & Analyzed:						
n- ut ylbenzene	ND									
sec- ut ylbenzene	ND									
tert- ut ylbenzene	ND									
Carbon Disulfide	ND									
Carbon Tetrachloride	ND									
Chlorobenzene	ND									
Chlorodibromomethane	ND									
Chloroethane	ND									
Chloroform	ND									
Chloromethane	ND									
-Chlorotoluene	ND									
-Chlorotoluene	ND									
,2 -Dibromo-3-chloropropane (DBCP)	ND									
,2 -Dibromoethane (EDB)	ND									V-
Dibromomethane	ND									
,2 -Dichlorobenzene	ND									
,3 -Dichlorobenzene	ND									
,4 -Dichlorobenzene	ND									
trans- ,4 -Dichloro- -butene	ND									
Dichlorodifluoromethane (Freon)	ND									
,1 -Dichloroethane	ND									
,2 -Dichloroethane	ND									
,1 -Dichloroethylene	ND									
cis- ,2 -Dichloroethylene	ND									
trans- ,2 -Dichloroethylene	ND									
,2 -Dichloropropane	ND									
,3 -Dichloropropane	ND									
,2 -Dichloropropane	ND									
,1 -Dichloropropene	ND									
cis- ,3 -Dichloropropene	ND									
trans- ,3 -Dichloropropene	ND									V-
Ethylbenzene	ND									
Hexachlorobutadiene	ND									
-Hexanone (M K)	ND									
Isopropylbenzene (Cumene)	ND									
p-Isopropyltoluene (p-C mene)	ND									
eth yl tert- ut yl Ether (MTBE)	ND									
eth ylene Chloride	ND									
- eth yl- -pentanone (MIBK)	ND									
Naphthalene	ND									
n-Propylbenzene	ND									
St rene	ND									
,1,1,2 -Tetrachloroethane	ND									
,1,2,2 -Tetrachloroethane	ND									
Tetrachloroethylene	ND									
Tetrah drofuran	ND									
Toluene	ND									
,2,3 -Trichlorobenzene	ND									
,2,4 -Trichlorobenzene	ND									
,1,1 -Trichloroethane	ND									
,1,2 -Trichloroethane	ND									
Trichloroethylene	ND									

QU IT CO O

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	nits	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
atc h B005 50 - SW- 5030B										
lan k (B005 50- K1)				Prepared & Analyzed:						
Trichlorofluoromethane (Freon)	ND									
,2,3 -Trichloropropane	ND									
,1,2 -Trichloro- ,2,2 -trifluoroethane (Freon 3)	ND									
,2,4 -Trimethylbenzene	ND									
,3, 5-Trimethylbenzene	ND									
Vinyl Chloride	ND									
m+p Xylene	ND									
o-Xylene	ND									
urrogate: ,2-Dichloroethane-d4	*25.5*						- 30			
urrogate: Toluene-d8	*24.7*					8 8	- 30			
urrogate: - romof luorobenzene	*23.5*						- 30			
CS (B00 5 50-BS1)				Prepared & Analyzed:						
cetone						**1 7** *	-		-	†
Acrylonitrile							- 30			
enzene	8					8	- 30			
romobenzene							- 30			
romodich loromethane	8					8	- 30			
romoform	3.					**135** *	- 30		-	
romomethane							-			†
- utanone (MEK)	32					32	-			†
n- ut ylbenzene							- 30			
sec- ut ylbenzene							- 30			
tert- ut ylbenzene							- 30			
Carbon Disulfide							- 30			
Carbon Tetrachloride							- 30			
Chlorobenzene							- 30			
Chlorodibromomethane							- 30			
Chloroethane							- 30			
Chloroform							- 30			
Chloromethane							-			†
-Chlorotoluene							- 30			
-Chlorotoluene							- 30			
,2 -Dibromo-3-chloropropane (DBCP)							- 30			
,2 -Dibromoethane (EDB)							- 30			V-
Dibromomethane							- 30			
,2 -Dichlorobenzene							- 30			
,3 -Dichlorobenzene							- 30			
,4 -Dichlorobenzene							- 30			
trans- ,4 -Dichloro- -butene	8					8	- 30			
Dichlorodifluoromethane (Freon)	8					8	-			†
,1 -Dichloroethane	8					8	- 30			
,2 -Dichloroethane							- 30			
,1 -Dichloroethylene							- 30			
cis- ,2 -Dichloroethylene	.3					3	- 30			
trans- ,2 -Dichloroethylene							- 30			
,2 -Dichloropropane	3					.3	- 30			
,3 -Dichloropropane							- 30			
,2 -Dichloropropane	8					8	- 30			†
,1 -Dichloropropene							- 30			
cis- ,3 -Dichloropropene	8					8	- 30			
trans- ,3 -Dichloropropene							- 30			V-

QU IT CO O

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	nits	pi ke Level	ource Result	%REC	%REC imits	RPD	RPD imit	Notes
atc h B005 50 - SW- 5030B										
CS (B00 5 50-BS1)				Prepared & Analyzed:						
Ethylbenzene							- 30			
Hexachlorobutadiene							- 30			
-Hexanone (M K)							-			†
Isopropylbenzene (Cumene)							- 30			
p-Isopropyltoluene (p-C mene)							- 30			
eth yl tert- ut yl Ether (MTBE)							- 30			
eth ylene Chloride							- 30			
- eth yl- -pentanone (MIBK)							-			†
Naphthalene	88					8 8	- 30			†
n-Propylbenzene							- 30			
St rene							- 30			
,1,1,2 -Tetrachloroethane							- 30			
,1,2,2 -Tetrachloroethane	8					8	- 30			
Tetrachloroethylene							-			†
Tetrah drofuran							- 30			
Toluene	8					8	- 30			
1,2,3-Trichlorobenzene							- 30			
,2,4 -Trichlorobenzene	8					8	- 30			
1,1,1-Trichloroethane	8 8					8 8	- 30			
,1,2 -Trichloroethane	3					3	- 30			
Trichloroethylene							- 30			
Trichlorofluoromethane (Freon)							- 30			
,2,3 -Trichloropropane							- 30			
1,1,2- richloro-1,2,2-trifluoroethane (Freon 113)	3.					**131** *	- 30		-	
,2,4 -Trimethylbenzene							- 30			
,3, 5-Trimethylbenzene							- 30			
Vinyl Chloride	8 13					8 .3	-			†
m+p Xylene	8						- 30			
o-Xylene							- 30			
urrogate: ,2-Dichloroethane-d4	*25.6*						- 30			
urrogate: Toluene-d8	*25.6*						- 30			
Surrogate: - romof luorobenzene	*25.2*						- 30			
CS up (B005 50-BSD1)				Prepared & Analyzed:						
Acetone	8					8	-	8		†
Acrylonitrile							- 30			
Benzene							- 30	3.8		
romobenzene							- 30	8		
romodich loromethane	8 8					8 8	- 30			
romoform	3.					**139** *	- 30	8	-	
romomethane	8					85	-	3		†
- utanone (MEK)	31					31	-			†
n- ut ylbenzene							- 30	3.8		
sec- ut ylbenzene							- 30	3.8		
tert- ut ylbenzene							- 30	8		
Carbon Disulfide							- 30	8 .34		
Carbon Tetrachloride							- 30			
Chlorobenzene							- 30	3		
Chlorodibromomethane	3.3					**133** *	- 30	83	-	
Chloroethane							- 30			
Chloroform	3					3	- 30			
Chloromethane	8					8	-	3.		†

QU IT CO O

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	nits	pi ke Level	ource Result	%REC	%REC imits	RPD	RPD imit	Notes
atc h B005 50 - SW- 5030B										
CS up (B005 50-BSD1)				Prepared & Analyzed:						
-Chlorotoluene							- 30	88		
-Chlorotoluene							- 30	8		
,2 -Dibromo-3-chloropropane (DBCP)							- 30			
,2 -Dibromoethane (EDB)	8					8	- 30			V-
Dibromomethane							- 30			
,2 -Dichlorobenzene							- 30			
,3 -Dichlorobenzene							- 30	3 83		
,4 -Dichlorobenzene							- 30	8		
trans- ,4 -Dichloro- -butene							- 30			
Dichlorodifluoromethane (Freon)							-	3.		†
,1 -Dichloroethane							- 30	3.		
,2 -Dichloroethane	8					8	- 30			
,1 -Dichloroethylene	3					3	- 30			
cis- ,2 -Dichloroethylene							- 30	3.		
trans- ,2 -Dichloroethylene	8					8	- 30	3.		
,2 -Dichloropropane							- 30	8		
,3 -Dichloropropane							- 30			
,2 -Dichloropropane	3					.3	- 30			†
,1 -Dichloropropene							- 30			
cis- ,3 -Dichloropropene	8.37					83.	- 30			
trans- ,3 -Dichloropropene	8					8	- 30			V-
Ethylbenzene							- 30			
Hexachlorobutadiene							- 30			
-Hexanone (M K)							-			†
Isopropylbenzene (Cumene)							- 30	8		
p-Isopropyltoluene (p-C mene)							- 30			
eth yl tert- ut yl Ether (MTBE)							- 30			
eth ylene Chloride							- 30	3.		
- eth yl- -pentanone (MIBK)	8					8	-	8		†
Naphthalene	8					8	- 30	3 8		†
n-Propylbenzene	8					8	- 30			
St rene							- 30	8		
,1,1,2 -Tetrachloroethane							- 30	8		
1,1,2,2-Tetrachloroethane							- 3			
Tetrachloroethylene							-			†
Tetrah drofuran							- 30			
Toluene							- 30	3		
1,2,3-Trichlorobenzene	8					8	- 30	3.		
1,2,4-Trichlorobenzene	8					8	- 30			
,1,1 -Trichloroethane	8					8	- 30			
,1,2 -Trichloroethane	3					3	- 30			
Trichloroethylene							- 30			
Trichlorofluoromethane (Freon)							- 30			
,2,3 -Trichloropropane							- 30			
,1,2 -Trichloro- ,2,2 -trifluoroethane (Freon 3)							- 30			
,2,4 -Trimethylbenzene							- 30			
,3, 5-Trimethylbenzene							- 30	37		
Vinyl Chloride	34					3.	-			†
m+p Xylene							- 30			
o-Xylene							- 30	34		
urrogate: ,2-Dichloroethane-d4	*25.6*						- 30			

QU IT CO O

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	nits	pi ke Level	ource Result	%REC	%REC imits	RPD	RPD imit	Notes
atc h B005 50 - SW- 5030B										
LCS up (B005 50-BSD1)				Prepared & Analyzed:						
urrogate: Toluene-d8	*25.3*						- 30			
urrogate: - romof luorobenzene	*25.2*						- 30			

QU IT CO O

Metals nalyses (Total) - Quality Control

Analyte	Result	Reporting Limit	nits	pi ke Level	ource Result	%REC	%REC imits	RPD	RPD imit	Notes
atc h B005312 - SW- 7 70A Prep										
lan k (B005312- K1)				Prepared:	Analyzed:					
ercur	ND		mg							
CS (B00 5312-BS1)				Prepared:	Analyzed:					
ercur			mg				8 -			
CS up (B005312-BSD1)				Prepared:	Analyzed:					
ercur			mg				8 -	8		
Batch B005371 - SW- 3005										
Blank (B005371- K1)				Prepared & Analyzed:						
Arsenic	ND		mg							
arium	ND		mg							
Cadmium	ND		mg							
Chromium	ND		mg							
ead	ND		mg							
e lenium	ND		mg							
i lver	ND		mg							
CS (B00 5371-BS1)				Prepared & Analyzed:						
Arsenic			mg				8 -			
arium	3		mg				8 -			
Cadmium			mg				8 -			
Chromium			mg				8 -			
ead	30		mg				8 -			
e lenium	8		mg				8 -			
i lver			mg				8 -			
CS up (B005371-BS 1)				Prepared & Analyzed:						
Arsenic			mg				8 -			
arium			mg				8 -	36		
Cadmium			mg				8 -	83		
Chromium	3		mg			3	8 -	3		
ead			mg				8 -	8		
e lenium			mg				8 -	3		
i lver	03		mg				8 -			
uplicate (B005371- P1)		**Source: 0910608-01**		Prepared & Analyzed:						
Arsenic	ND		mg		ND			NC		
arium	ND		mg		ND			NC		
Cadmium	ND		mg		ND			NC		
Chromium	ND		mg		ND			NC		
ead	ND		mg		ND			NC		
e lenium	ND		mg		ND			NC		
i lver	ND		mg		ND			NC		

QU IT CO O

Metals nalyses (Total) - Quality Control

Analyte	Result	Reporting Limit	nits	pi ke Level	ource Result	%REC	%REC imits	RPD	RPD imit	Notes
atc h B005371 - SW- 3005										
Matrix Spike (B005371-MS1)		**Source: 0910608-01**		Prepared & Analyzed:						
Arsenic	34		mg		ND		5-			
arium	8 3		mg				-			
Cadmium			mg				5-			
Chromium			mg		ND		-			
ead	88		mg		ND		5-			
e lenium	36		mg				-			
i lver	3		mg		ND		5-			
atc h B0053 5 - SW- 3005										
lan k (B0053 5- K1)				Prepared & Analyzed:						
Arsenic	ND									
ead	ND									
uplicate (B0053 5- P1)		**Source: 0910608-01**		Prepared & Analyzed:						
Arsenic	ND				ND			NC		
ead	ND				ND			NC		
Matrix Spike (B0053 5-MS1)		**Source: 0910608-01**		Prepared & Analyzed:						
Arsenic		8			ND	8	-			
ead					ND	8	-			
atc h B0081 1 - SW- 3005										
Blank (B0081 1- K1)				Prepared: 8 Ana lyzed:						
Arsenic	ND									
Lead	ND									
LCS (B0081 1-BS1)				Prepared: 8 Ana lyzed:						
Arsenic	3						8 -			
ead	8						8 -			
CS up (B0081 1-BSD1)				Prepared: 8 Ana lyzed:						
Arsenic	3						8 -	8		
Lead							8 -			

FL G/QU IFIE SUMMA

*	QC result is outside of established limits.
†	Wide recover limits estabished for difficult compound.
‡	Wide RPD limits estabished for difficult compound.
#	Data exceeded client recommended or regulator level
	Percent recoveries and relative percent differences (RPDs) are determined b the software using values in the calculation which have not been rounded.
	Analyte is found in the associated blank as well as in the sample.
-	aborator fortified blank laborator control sample recover and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
-	aborator fortified blank laborator control sample recover and duplicate recover are outside of control limits. Reported value for this compound is likely to be biased on the low side.
-	Either laborator fortified blank laborator control sample or duplicate recover is outside of control limits, but the other is within limits. RPD between the two CS results is within method specified criteria.
R-	aborator fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for an reported value for this compound.
V-	Continuing calibration did not meet method specifications and was biased on the low side for this compound. ignificant uncertaint is associated with the reported value which is likely to be biased on the low side.
V-	Continuing calibration did not meet method specifications and was biased on the high side for this compound. ignificant uncertaint is associated with the reported value which is likely to be biased on the high side.
Z-	Reanalysis of t rene performed on used vials with headspace resulting in acceptable QC recoveries. Reanalysis results were all non-detect as well

CE IFICA IONS

Certified nalyses included in this eport

Analyte	Certifications
46 60 B	
Arsenic	CT,NH,NY,RI
arium	CT,NH,NY,RI
Cadmium	CT,NH,NY,RI
Chromium	CT,NH,NY,RI
ead	CT,NH,NY,RI
Selenium	CT,NH,NY,RI
Silver	CT,NH,NY,RI
6 6020	
Arsenic	CT,NH,NY,RI
Lead	CT,NH,NY,RI
46	
Mercur	CT,NH,NY,RI
6 260B	
Acetone	CT,NH,NY
Acrylonitrile	CT,NY,RI
Benzene	CT,NH,NY,RI
Bromodichloromethane	CT,NH,NY,RI
Bromoform	CT,NH,NY,RI
romomethane	CT,NH,NY,RI
- utanone (MEK)	CT,NH,NY
n- ut ylbenzene	NY
sec- ut ylbenzene	NY
tert- ut ylbenzene	NY
Carbon Disulfide	CT,NH,NY
Carbon Tetrachloride	CT,NH,NY,RI
Chlorobenzene	CT,NH,NY,RI
Chlorodibromomethane	CT,NH,NY,RI
Chloroethane	CT,NH,NY,RI
Chloroform	CT,NH,NY,RI
Chloromethane	CT,NH,NY,RI
Dibromomethane	NH,NY
,2 -Dichlorobenzene	CT,NY,RI
,3 -Dichlorobenzene	CT,NH,NY,RI
,4 -Dichlorobenzene	CT,NH,NY,RI
trans- ,4 -Dichloro- -butene	NH,NY
Dichlorodifluoromethane (Freon)	NH,NY,RI
,1 -Dichloroethane	CT,NH,NY,RI
,2 -Dichloroethane	CT,NH,NY,RI
,1 -Dichloroethylene	CT,NH,NY,RI
trans- ,2 -Dichloroethylene	CT,NH,NY,RI
,2 -Dichloropropane	CT,NH,NY,RI
2,2-Dichloropropane	NH,NY
1,1-Dichloropropene	NH,NY
cis- ,3 -Dichloropropene	CT,NH,NY,RI
trans- ,3 -Dichloropropene	CT,NH,NY,RI
Ethylbenzene	CT,NH,NY,RI

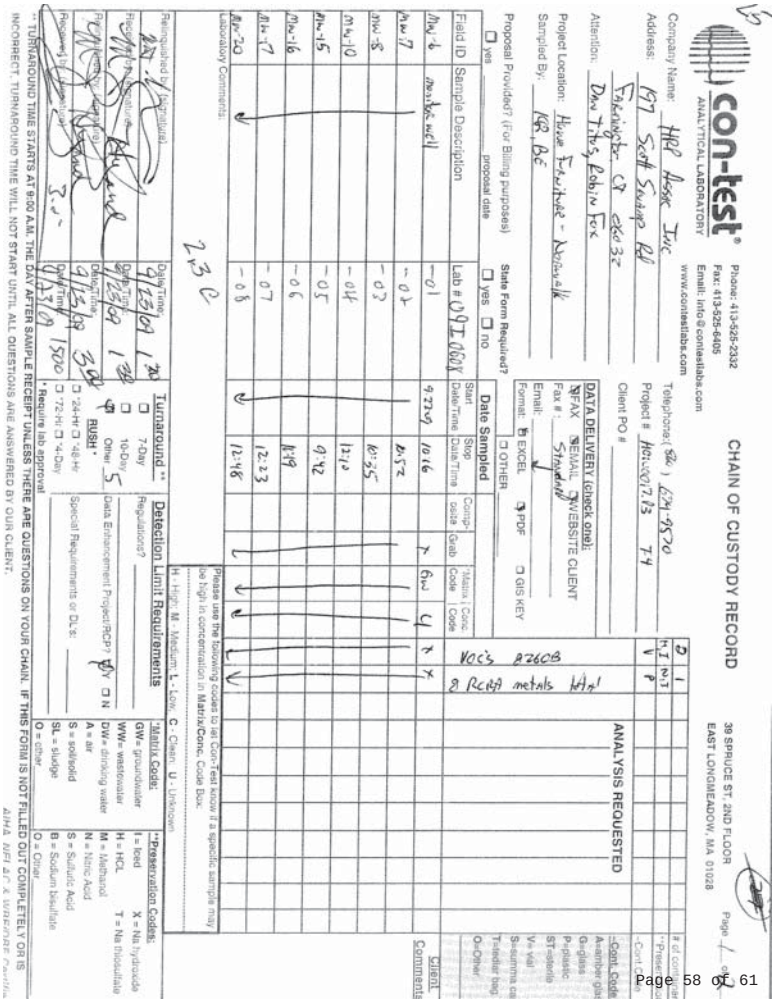
CE IFICA IONS

Certified nalyses included in this eport

Analyte	Certifications
6 260B	
Hexachlorobutadiene	CT,NH,NY
-Hexanone (M K)	CT,NH,NY
Isopropylbenzene (Cumene)	NY
p-Isopropyltoluene (p-C mene)	CT,NH,NY
Methyl tert- ut yl Ether (MTBE)	CT,NH,NY
Methylene Chloride	CT,NH,NY,RI
- eth yl- -pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY
n-Propylbenzene	CT,NH,NY
St rene	CT,NH,NY
1,1,1,2-Tetrachloroethane	CT,NH,NY
,1,2,2 -Tetrachloroethane	CT,NH,NY,RI
Tetrachloroethylene	CT,NH,NY,RI
Toluene	CT,NH,NY,RI
,2,3 -Trichlorobenzene	NH,NY
,2,4 -Trichlorobenzene	CT,NH,NY
1,1,1-Trichloroethane	CT,NH,NY,RI
1,1,2-Trichloroethane	CT,NH,NY,RI
Trichloroethylene	CT,NH,NY,RI
Trichlorofluoromethane (Freon)	CT,NH,NY,RI
,2,3 -Trichloropropane	NH,NY
,2,4 -Trimethylbenzene	NY
,3, 5-Trimethylbenzene	NY
Vinyl Chloride	CT,NH,NY,RI
m+p Xylene	CT,NH,NY,RI
o-Xylene	CT,NH,NY,RI

The CON-TEST Environmental Laborator operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial H giene Association	33	
A	Massachusetts DEP	- A1	3
CT	Connecticut Department of Publlic Health	PH-	3
NY	New York State Department of Health	8 NELAP	
NH	New Hampshire Environmental Lab	NELAP	
RI	Rhode Island Department of Health	A O	30
NC	North Carolina Div. of Water Qualit		31
NJ	New Jerse DEP	A0 NELAP	30
	lorida Department of Health	E8 NELAP	30
VT	Vermont Department of Health ead aborator	36	30
WA	State of Washington Department of Ecolog	C2	3/ 3/



con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

CHAIN OF CUSTODY RECORD

Company Name: HRP Assoc Inc
Address: 197 Scott Swamp Rd Farmington CT 06032
Attention: Dan Ihly, Robin Fox
Project Location: Howe Furniture - Norwalk
Sampled By: KG, BC
Proposal Provided? (For Billing purposes) ☐ yes ☐ proposal date
State Form Required? ☐ yes ☐ no
Client PO #
Telephone: (860) 677-9570
Project # November 13 T4
DATA DELIVERY (check one): ☒ FAX ☐ EMAIL ☐ WEBSITE CLIENT
Fax # Standard
Email:
Format: ☒ EXCEL ☒ PDF ☐ GIS KEY ☐ OTHER

Laboratory Comments:

Relinquished by (signature): Date/Time 9/23/09 1530
Received by (signature): Date/Time 9/23/09 1530
Relinquished by (signature): Date/Time 9/23/09 1500
Received by (signature): Date/Time 9/23/09 1500

Turnaround ** ☐ 7-Day ☐ 10-Day ☒ Other 5 RUSH * ☐ 24-Hr ☐ 48-Hr ☐ 72-Hr ☐ 4-Day
* Require lab approval
** Surcharge may apply

Detection Limit Requirements
Regulations?
Data Enhancement Project/RCP? ☒ Y ☐ N
Special Requirements or DLs:

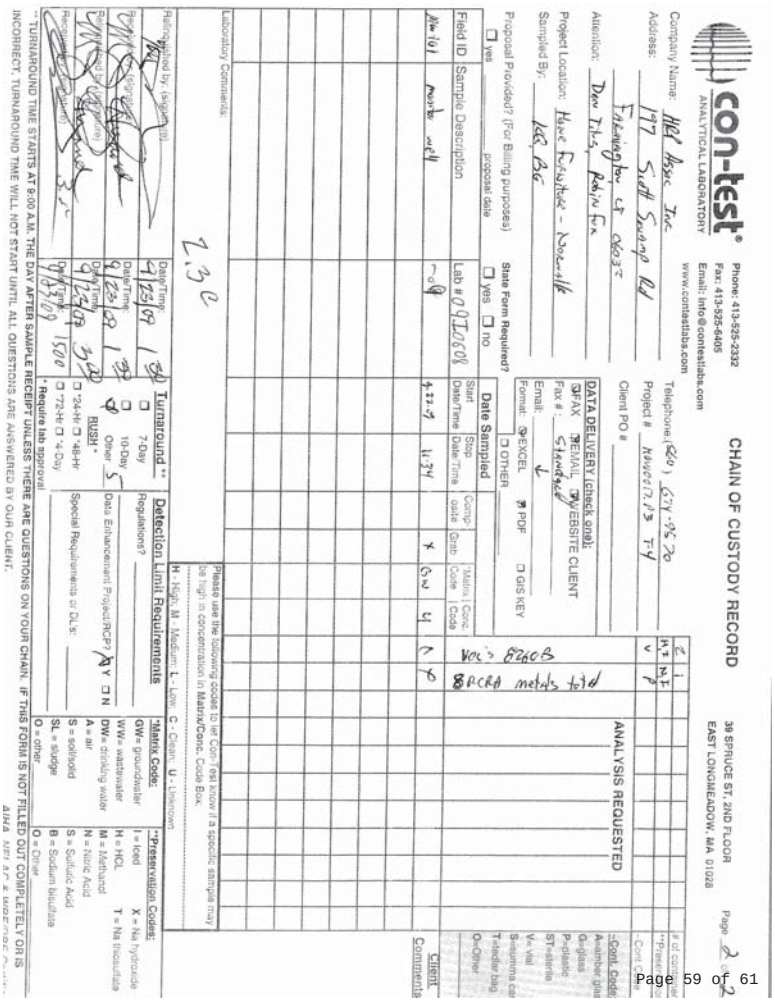
Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box.
H - High, M - Medium, L - Low, C - Clean, U - Unknown

"Matrix Code: GW = groundwater, WW = wastewater, DW = drinking water, A = air, S = soil/solid, SL = sludge, O = other

"Preservation Codes: I = Iced, H = HCL, M = Methanol, N = Nitric Acid, S = Sulfuric Acid, B = Sodium bisulfate, O = Other, X = Na hydroxide, T = Na thiosulfate

Field ID	Sample Description	Lab # 091J1608	Date Sampled	Start Time	Stop Time	Date/Time	Comp/ Grab	Matrix Code	Conc. Code	# of containers	H, I, N, T	V	P	ANALYSIS REQUESTED	Client Comments
MW-6	monitor well	-01	9-22-09		10:16		X	GW	L	4	HCl	✓		VOCs 8260B	
MW-7		-02			9:57									8 RCRA metals total	
MW-8		-03			10:55										
MW-10		-04			12:10										
MW-15		-05			9:42										
MW-16		-06			11:19										
MW-17		-07			12:23										
MW-20		-08			12:48										

Page 58 of 61



con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

CHAIN OF CUSTODY RECORD

Company Name: HRP Assoc Inc
Address: 197 Scott Swamp Rd Farmington CT 06032
Attention: Dan Ihly, Robin Fox
Project Location: Howe Furniture - Norwalk
Sampled By: KG, BC
Proposal Provided? (For Billing purposes) ☐ yes ☐ proposal date
State Form Required? ☐ yes ☐ no
Client PO #
Telephone: (860) 677-9570
Project # November 13 T4
DATA DELIVERY (check one): ☒ FAX ☐ EMAIL ☐ WEBSITE CLIENT
Fax # Standard
Email:
Format: ☒ EXCEL ☒ PDF ☐ GIS KEY ☐ OTHER

Laboratory Comments:

Relinquished by (signature): Date/Time 9/23/09 1530
Received by (signature): Date/Time 9/23/09 1530
Relinquished by (signature): Date/Time 9/23/09 1500
Received by (signature): Date/Time 9/23/09 1500

Turnaround ** ☐ 7-Day ☐ 10-Day ☒ Other 5 RUSH * ☐ 24-Hr ☐ 48-Hr ☐ 72-Hr ☐ 4-Day
* Require lab approval
** Surcharge may apply

Detection Limit Requirements
Regulations?
Data Enhancement Project/RCP? ☒ Y ☐ N
Special Requirements or DLs:

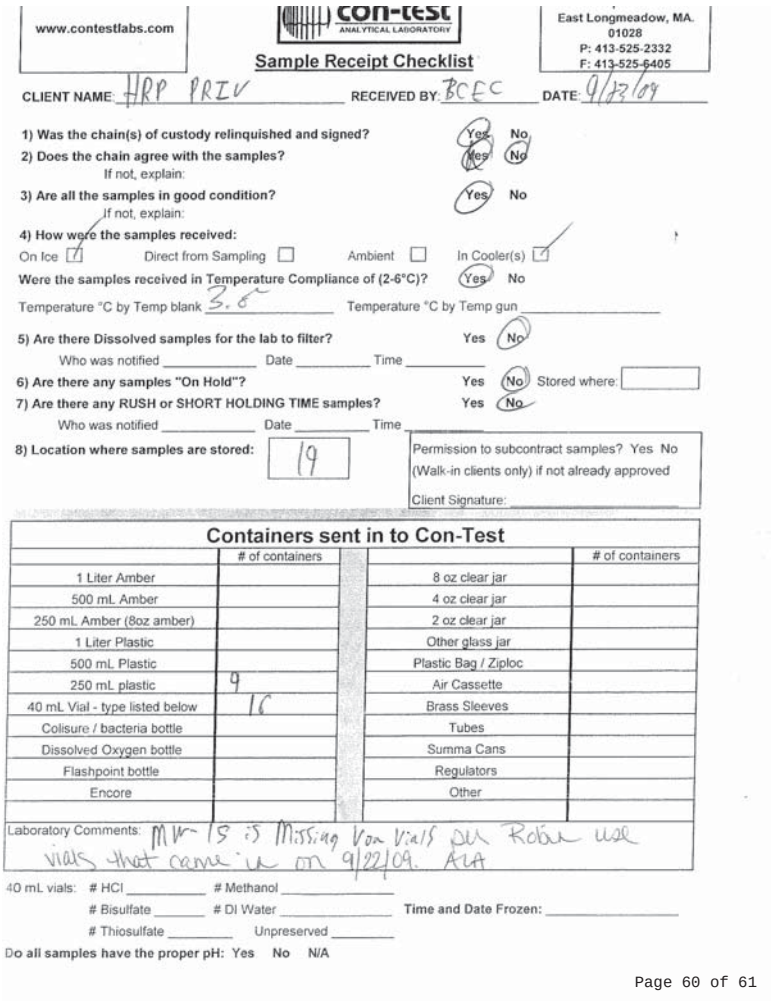
Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box.
H - High, M - Medium, L - Low, C - Clean, U - Unknown

"Matrix Code: GW = groundwater, WW = wastewater, DW = drinking water, A = air, S = soil/solid, SL = sludge, O = other

"Preservation Codes: I = Iced, H = HCL, M = Methanol, N = Nitric Acid, S = Sulfuric Acid, B = Sodium bisulfate, O = Other, X = Na hydroxide, T = Na thiosulfate

Field ID	Sample Description	Lab # 091J1608	Date Sampled	Start Time	Stop Time	Date/Time	Comp/ Grab	Matrix Code	Conc. Code	# of containers	H, I, N, T	V	P	ANALYSIS REQUESTED	Client Comments
MW-01	monitor well	-09	9-22-09		11:34		X	GW	L	4	HCl	✓		VOCs 8260B	
														8 RCRA metals total	

Page 59 of 61



www.contestlabs.com

con-test ANALYTICAL LABORATORY

East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405

Sample Receipt Checklist

CLIENT NAME: HRP PRIV RECEIVED BY: BCEC DATE: 9/23/09

1) Was the chain(s) of custody relinquished and signed? (Yes) No
2) Does the chain agree with the samples? (Yes) No
If not, explain:
3) Are all the samples in good condition? (Yes) No
If not, explain:
4) How were the samples received:
On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒
Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No
Temperature °C by Temp blank 3.6 Temperature °C by Temp gun
5) Are there Dissolved samples for the lab to filter? Yes (No)
Who was notified Date Time
6) Are there any samples "On Hold"? Yes (No) Stored where:
7) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)
Who was notified Date Time
8) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

Containers sent in to Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz clear jar	
500 mL Amber		4 oz clear jar	
250 mL Amber (8oz amber)		2 oz clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic	9	Air Cassette	
40 mL Vial - type listed below	16	Brass Sleeves	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Summa Cans	
Flashpoint bottle		Regulators	
Encore		Other	

Laboratory Comments: MW-15 is missing 4 vials all Robin used vials that came in on 9/22/09. AIA

40 mL vials: # HCl # Methanol
Bisulfate # DI Water Time and Date Frozen:
Thiosulfate Unpreserved
Do all samples have the proper pH: Yes No N/A

Page 60 of 61

CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Co -Te t Analytical Laboratory
Client: HRP A iate , In . (Private)
Project Location: How F urniture - Norwalk
Project Number: 09I0608
Laboratory Sample ID(s): 09I0608-01 thru 09I0608-09
Sample Date(s): 09/22/2009

List RCP Methods Used:
SW-846 6010B, SW-846 6020A, SW-846 7470A, SW-846 8260B

1	For ach analytical th re re in this laboratory report package, were all pe ifie QA/QC perf rman riteria llow d, in luding th re quire t to xplain any riteria alling utsid ac ptable guid lin , as pe ifie in th CTDEP th d-spe ific Reas able Co id Proto l u nts ?	☑ Y	☐ N
1A	Were th et h spe ifie pre rvatio an holding tim require ts t?	☑ Y	☐ N
1B	VPH an EPH Meth nly : Was th VPH an EPH th ucte with ut ignificant ificatio (s Se tio 11.3 re pe tive RCP th s) ?	☐ Y	☐ No ☑ N/A
2	Were all ample re ive by th laboratory in a itio iste t with that ribe th as iate hain- - usto y u nt(s) ?	☑ Y	☐ N
	Were ample re ive at an appropriate te perature (< 6 gre C.)?	☑ Y	☐ No ☐ N/A
4	Were all QA/QC perf rman riteria pe ifie in th CTDEP Reas able Co id Proto l u nts achieve ?	☐ Y	☑ N
A	Were reporting limits pe ifie r re re th hain- - usto y?	☐ Y	☑ N
	Were th reportin g limits t?	☐ Y	☐ N
	For ach analytical th re re in this laboratory report package, were re ults reporte r all titu nts id tifie in th et h d-spe ific analyte lists pre te in th Reas able Co id Proto l u nts ?	☐ Y	☑ N
7	Are proj ct-spe ific atrix spik an laboratory uplicate in lu in this ata t?	☑ Y	☐ N

Note : For all qu stio to which th re po was "No" (with th x eptio qu stio #7), ad itio al in rmatio ust be provid in an attach narrative. If th an wer to qu stio #1, #1A, r #1B is "No", th data pac kag ot t th re quire ts r "Reas able Co id ." This rm ay t be altere an all qu stio ust be an were .

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: **Position:** Laboratory Manager
Printed Name: Daren J. Damboragian **Date:** 12/14/09
Name of Laboratory: Con-Test Analytical Laboratory

This certification form is to be used for RCP methods only.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

December ,

Dan Titus
HRP Ass ciates, Inc. (Private)
Sc ott Swamp Road
Farmi , CT 032

Project oca n 5 Woodward Ave., Norwalk, CT
Client Job Number:
Project Number: HOW P3 T-
aboratory Work Order Number: K

Enclosed are results of analyses for samples received by the laboratory on November 5, If you have any questions concerning this report, please feel free to contact me.

incerely,

Holly Folsom
Project anager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

HRP Associates, Inc. (Private)
Sc ott Swamp Road
Farmington, CT 032
ATTN Dan Titus

REPORT DATE:

P RCHASE ORDER N E R -CT- 31

PROJECT N BE R HOW P3 T-

ICA SUMMA

WORK ORDER N E R K

The results of analyses performed on the following samples submitted to the CON-TEST Analytical aboratory are found in this report

PROJECT OCATION 5 Woodward Ave., Norwalk, CT

FIELD A PLE #	A ID:	ATRIX	A PLE DESCRIPTION	TEST	A
W- 5	K -	Ground Water		W-8 8	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE IVE SUMMA

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report

Revised report with Vinyl Chloride reporting limit lowered to meet proposed residential volatile criteria, calibration within criteria to lower level

SW- 260B

Qualifications:

Elevated detection limits for all volatile compounds due to foaming sample matrix

Analyte & Samples(s) Qualified:

K - [W- 5]

aboratory fortified blank laboratory control sample recovery and duplicate recovery are outside of control limits Reported value for this compound is likely to be biased on the low side.

nalyte & Samples(s) Qualified:

1,1,1,2-Tetrachloroethane, 1,2-Dibromo-3-chloropropane (DBCP)

K - [W- 5], 8- K1, 8- , 8- D1

Either laboratory fortified blank laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits RPD between the two F C re sults is within method specified criteria

Analyte & Samples(s) Qualified:

Carbon etrachloride, Chlorodibromomethane

8-

aboratory fortified blank duplicate RPD is outside of control limits Reduced precision is anticipated for any reported value for this compound.

nalyte & Samples(s) Qualified:

romomethane

K - [W- 5], 8- K1, 8- , 8- D1

Continuing calibration did not meet method specifications and was biased on the low side for this compound. ignificant uncertainty is associated with the reported value which is likely to be biased on the low side.

nalyte & Samples(s) Qualified:

1,2-Dibromo-3-chloropropane (DBCP)

K - [W- 5], 8- K1, 8- , 8- D1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW- 260B

The C rec overies for required CT reasonable confidence protocol (RCP) 8 c ompounds were all within limits specified by the method except for "difficult analytes" where control limits somewhere between - % are used and/or unless otherwise listed in this narrative: Difficult analytes MIBK, EK, Tert-butyl Alcohol, Acetone, ,4-Dioxane, Vinyl Chloride, Chloromethane, Dichlorodifluoromethane, -Hexanone, Naphthalene, romomethane, ,2-Dichloropropane and Tetrachloroethylene.

All reporting limits specified on the chain-of-custody were met except for Acrylonitrile, where the most protective criteria are not met since the laboratory cannot achieve the required RCP calibration criteria at these levels, unless otherwise listed in this narrative.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical aboratory for testing
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

ichael A Erickson
aboratory Director

Project ocation 5 Woodward Ave., Norwalk, ample Description Work Order: K
Date Received: 5
Field Sample #: MW-105 ampled: 5
Sample ID: 09K0604-01
amnle atrix round Water
ample Flags DL-

Volatile Organic Compounds by GC/MS

Analyte	esults		Units	Dilution	Flag	Method	Date Prepared	Date/Time naly zed		nalyst
Acetone	ND	5	µg			W-8 8	3/	3/	5	FF
Acrylonitrile	ND2		µg			W-8 8	3/	3/	5	FF
e nzene	ND	5	µg			W-8 8	/3/	3/	5	FF
r omobenzene	ND	5	µg			W-8 8	/3/	3/	5	FF
r omodichloromethane	ND	5	µg			W-8 8	/3/	3/	5	FF
r omoform	ND	5	µg			W-8 8	/3/	3/	5	FF
r omomethane	ND1		µg		R- 5	W-8 8	3/	3/	5	FF
- utanone (MEK)	ND2		µg			W-8 8	3/	3/	5	FF
n- utylbenzene	ND1		µg			W-8 8	3/	3/	5	FF
sec- utylbenzene	ND1		µg			W-8 8	3/	3/	5	FF
tert- utylbenzene	ND1		µg			W-8 8	3/	3/	5	FF
Carbon Disulfide	ND	5	µg			W-8 8	3/	3/	5	FF
Carbon Tetrachloride	ND	5	µg			W-8 8	3/	3/	5	FF
Chlorobenzene	ND	5	µg			W-8 8	3/	3/	5	FF
Chlorodibromomethane	ND	5	µg			W-8 8	3/	3/	5	FF
Chloroethane	ND	5	µg			W-8 8	3/	3/	5	FF
Chloroform	ND	5	µg			W-8 8	3/	3/	5	FF
Chloromethane	ND	5	µg			W-8 8	3/	3/	5	FF
-Chlorotoluene	ND	5	µg			W-8 8	3/	3/	5	FF
-Chlorotoluene	ND	5	µg			W-8 8	3/	3/	5	FF
,2 -Dibromo-3-chloropropane (DBCP)	ND	5	µg		- , - 5	W-8 8	3/	3/	5	FF
,2 -Dibromoethane (EDB)	ND	5	µg			W-8 8	3/	3/	5	FF
Dibromomethane	ND	5	µg			W-8 8	3/	3/	5	FF
,2 -Dichlorobenzene	ND	5	µg			W-8 8	3/	3/	5	FF
,3 -Dichlorobenzene	ND	5	µg			W-8 8	3/	3/	5	FF
,4 -Dichlorobenzene	ND	5	µg			W-8 8	3/	3/	5	FF
trans- ,4 -Dichloro- -butene	ND2		µg			W-8 8	3/	3/	5	FF
Dichlorodifluoromethane (Freon 2)	ND	5	µg			W-8 8	3/	3/	5	FF
,1 -Dichloroethane	ND	5	µg			W-8 8	/3/	3/	5	FF
,2 -Dichloroethane	ND	5	µg			W-8 8	/3/	3/	5	FF
,1 -Dichloroethylene	ND	5	µg			W-8 8	/3/	3/	5	FF
cis- ,2 -Dichloroethylene	ND	5	µg			W-8 8	3/	3/	5	FF
trans- ,2 -Dichloroethylene	ND1		µg			W-8 8	3/	3/	5	FF
,2 -Dichloropropane	ND	5	µg			W-8 8	/3/	3/	5	FF
,3 -Dichloropropane	ND	5	µg			W-8 8	/3/	3/	5	FF
,2 -Dichloropropane	ND	5	µg			W-8 8	/3/	3/	5	FF
,1 -Dichloropropene	ND	5	µg			W-8 8	/3/	3/	5	FF
cis- ,3 -Dichloropropene	ND	5	µg			W-8 8	3/	3/	5	FF
trans- ,3 -Dichloropropene	ND	5	µg			W-8 8	3/	3/	5	FF
Ethylbenzene	ND	5	µg			W-8 8	3/	3/	5	FF
Hexachlorobutadiene	ND		µg			W-8 8	3/	3/	5	FF
-Hexanone (M K)	ND2		µg			W-8 8	3/	3/	5	FF
Isopropylbenzene (Cumene)	ND	5	µg			W-8 8	3/	3/	5	FF
p-Isopropyltoluene (p-Cymene)	ND	5	µg			W-8 8	3/	3/	5	FF

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project ocation 5 Woodward Ave., Norwalk, ample Description Work Order: K
Date Received: 5
Field Sample #: MW-105 ampled: 5
Sample ID: 09K0604-01
amnle atrix round Water
ample Flags DL-

Volatile Organic Compounds by GC/MS

Analyte	esults		Units	Dilution	Flag	Method	Date Prepared	Date/Time naly zed		nalyst
e thyl tert- utyl Ether (MTBE)		5	µg			W-8 8	/3/	3/	5	FF
e thylene Chloride	ND	5	µg			W-8 8	/3/	3/	5	FF
- e thyl- -pentanone (MIBK)	ND2		µg			W-8 8	3/	3/	5	FF
Naphthalene	ND	5	µg			W-8 8	3/	3/	5	FF
n-Propylbenzene	ND1		µg			W-8 8	3/	3/	5	FF
tyrene	ND1		µg			W-8 8	3/	3/	5	FF
,1,1,2 -Tetrachloroethane	ND	5	µg		-	W-8 8	3/	3/	5	FF
,1,2,2 -Tetrachloroethane	ND	5	µg			W-8 8	/3/	3/	5	FF
Tetrachloroethylene	ND1		µg			W-8 8	3/	3/	5	FF
Tetrahydrofuran	ND		µg			W-8 8	3/	3/	5	FF
Toluene	ND1		µg			W-8 8	3/	3/	5	FF
,2,3 -Trichlorobenzene	ND	5	µg			W-8 8	/3/	3/	5	FF
,2,4 -Trichlorobenzene	ND	5	µg			W-8 8	/3/	3/	5	FF
,1,1 -Trichloroethane	ND	5	µg			W-8 8	/3/	3/	5	FF
,1,2 -Trichloroethane	ND	5	µg			W-8 8	/3/	3/	5	FF
Trichloroethylene	ND1		µg			W-8 8	3/	3/	5	FF
Trichlorofluoromethane (Freon 1)	ND2		µg			W-8 8	3/	3/	5	FF
,2,3 -Trichloropropane	ND	5	µg			W-8 8	/3/	3/	5	FF
,1,2 -Trichloro- ,2,2 -trifluoroethane (Freon 13)	ND	5	µg			W-8 8	3/	3/	5	FF
,2,4 -Trimethylbenzene	ND	5	µg			W-8 8	3/	3/	5	FF
,3, 5-Trimethylbenzene	ND	5	µg			W-8 8	3/	3/	5	FF
Vinyl Chloride	ND1		µg			W-8 8	3/	3/	5	FF
m+p Xylene	ND2		µg			W-8 8	3/	3/	5	FF
o-Xylene	ND1		µg			W-8 8	3/	3/	5	FF

Surrogates	% Recovery	Recovery imits	Flag		
,2 -Dichloroethane-d4		- 30		3/	5
Toluene-d8	8.3	- 30		3/	5
- r omofluorobenzene		- 30		3/	5

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample xtraction Data

Prep Method: SW- 5030B-SW- 260B

a b Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
K - [W- 5]	8	5	5	3/

con-test ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QU IT CO O

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting imit	nits	p ike Level	ource Result	%REC	%REC imits	RPD	RPD imit	Notes
atch 0079 - SW- 5030B										
lan k (B0079 8- K1)				Prepared & Analyzed: 3/						
Acetone	ND	5	µg							
Acrylonitrile	ND		µg							
e nzene	ND	5	µg							
r omobenzene	ND	5	µg							
r omodichloromethane	ND	5	µg							
r omoform	ND	5	µg							
r omomethane	ND		µg							R- 5
- utanone (MEK)	ND		µg							
n- utylbenzene	ND		µg							
sec- utylbenzene	ND		µg							
tert- utylbenzene	ND		µg							
Carbon Disulfide	ND	5	µg							
Carbon Tetrachloride	ND	5	µg							
Chlorobenzene	ND	5	µg							
Chlorodibromomethane	ND	5	µg							
Chloroethane	ND	5	µg							
Chloroform	ND	5	µg							
Chloromethane	ND	5	µg							
-Chlorotoluene	ND	5	µg							
-Chlorotoluene	ND	5	µg							
,2 -Dibromo-3-chloropropane (DBCP)	ND	5	µg							- , - 5
,2 -Dibromoethane (EDB)	ND	5	µg							
Dibromomethane	ND	5	µg							
,2 -Dichlorobenzene	ND	5	µg							
,3 -Dichlorobenzene	ND	5	µg							
,4 -Dichlorobenzene	ND	5	µg							
trans- ,4 -Dichloro- -butene	ND		µg							
Dichlorodifluoromethane (Freon 2)	ND	5	µg							
,1 -Dichloroethane	ND	5	µg							
,2 -Dichloroethane	ND	5	µg							
,1 -Dichloroethylene	ND	5	µg							
cis- ,2 -Dichloroethylene	ND	5	µg							
trans- ,2 -Dichloroethylene	ND		µg							
,2 -Dichloropropane	ND	5	µg							
,3 -Dichloropropane	ND	5	µg							
,2 -Dichloropropane	ND	5	µg							
,1 -Dichloropropene	ND	5	µg							
cis- ,3 -Dichloropropene	ND	5	µg							
trans- ,3 -Dichloropropene	ND	5	µg							
Ethylbenzene	ND	5	µg							
Hexachlorobutadiene	ND		µg							
-Hexanone (M K)	ND		µg							
Isopropylbenzene (Cumene)	ND	5	µg							
p-Isopropyltoluene (p-Cymene)	ND	5	µg							
e thyl tert- utyl Ether (MTBE)	ND	5	µg							
e thylene Chloride	ND	5	µg							
- e thyl- -pentanone (MIBK)	ND		µg							
Naphthalene	ND	5	µg							
n-Propylbenzene	ND		µg							
tyrene	ND		µg							
,1,1,2 -Tetrachloroethane	ND	5	µg							-
,1,2,2 -Tetrachloroethane	ND	5	µg							

QU IT CO O

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting imit	nits	Spike Level	ource Result	%REC	%REC imits	RPD	RPD imit	Notes
atch 0079 - SW- 5030B										
lan k (B0079 8- K1)				Prepared & Analyzed: 3/						
Tetrachloroethylene	ND		µg							
Tetrahydrofuran	ND		µg							
Toluene	ND		µg							
1,2,3-Trichlorobenzene	ND	5	µg							
1,2,4-Trichlorobenzene	ND	5	µg							
1,1,1-Trichloroethane	ND	5	µg							
1,1,2-Trichloroethane	ND	5	µg							
Trichloroethylene	ND		µg							
Trichlorofluoromethane (Freon 1)	ND		µg							
1,2,3-Trichloropropane	ND	5	µg							
1,1,2-Trichloro- ,2,2 -trifluoroethane (Freon 13)	ND	5	µg							
1,2,4-Trimethylbenzene	ND	5	µg							
1,3,5-Trimethylbenzene	ND	5	µg							
Vinyl Chloride	ND		µg							
m+p Xylene	ND		µg							
o-Xylene	ND		µg							
urrogate: ,2-Dichloroethane-d4	*26.6*		µg	5			- 30			
urrogate: Toluene-d8	*24.1*		µg	5			- 30			
urrogate: - r omofluorobenzene	*23.6*		µg	5	5		- 30			
CS (B00 79 8-BS 1)				Prepared & Analyzed: 3/						
Acetone	8 5	5	µg		8 5		-			†
Acrylonitrile	3		µg		03		- 30			
Benzene	13	5	µg		.3		- 30			
Bromobenzene	8 5	5	µg		85		- 30			
Bromodichloromethane	.33	5	µg		3.3		- 30			
Bromoform	13	5	µg		.3		- 30			
Bromomethane	8		µg		8		-		R- 5	†
- utanone (MEK)	5		µg		5		-			†
n- utylbenzene	8 8		µg		88		- 30			
sec- utylbenzene			µg				- 30			
tert- utylbenzene	8 8		µg		88		- 30			
Carbon Disulfide		5	µg				- 30			
Carbon etrachloride	8	5	µg		**.2**	*	- 30		-	
Chlorobenzene	8	5	µg		8		- 30			
Chlorodibromomethane		5	µg		**.0**	*	- 30		-	
Chloroethane		5	µg				- 30			
Chloroform	8	5	µg		8		- 30			
Chloromethane		5	µg				-			†
-Chlorotoluene	8 8	5	µg		88		- 30			
-Chlorotoluene	8 8	5	µg		88		- 30			
1,2-Dibromo-3-chloropropane (DBCP)		5	µg		**.4**	*	- 30		- , - 5	
1,2-Dibromoethane (EDB)	8	5	µg		8		- 30			
Dibromomethane	5	5	µg		5		- 30			
1,2-Dichlorobenzene		5	µg				- 30			
1,3-Dichlorobenzene		5	µg				- 30			
1,4-Dichlorobenzene	8	5	µg		8		- 30			
trans- ,4 -Dichloro- -butene			µg				- 30			
Dichlorodifluoromethane (Freon 2)		5	µg				-			†
1,1-Dichloroethane		5	µg				- 30			
1,2-Dichloroethane	8	5	µg		8		- 30			
1,1-Dichloroethylene	8	5	µg		8		- 30			

QU IT CO O

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting imit	nits	Spike Level	ource Result	%REC	%REC imits	RPD	RPD imit	Notes
atch 0079 - SW- 5030B										
LCS (B0079 8-BS 1)				Prepared & Analyzed: 3/						
cis- ,2 -Dichloroethylene		5	µg				- 30			
trans- ,2 -Dichloroethylene			µg				- 30			
1,2-Dichloropropane	8	5	µg			8	- 30			
1,3-Dichloropropane	8	5	µg			8	- 30			
2,2-Dichloropropane	8 5	5	µg			8 5	- 30			†
1,1-Dichloropropene		5	µg				- 30			
cis- ,3 -Dichloropropene	8 5	5	µg			85	- 30			
trans- ,3 -Dichloropropene	8 5	5	µg			85	- 30			
Ethylbenzene	8	5	µg			8	- 30			
Hexachlorobutadiene	5		µg			5	- 30			
-Hexanone (M K)	5		µg			5	-			†
Isopropylbenzene (Cumene)		5	µg				- 30			
p-Isopropyltoluene (p-Cymene)	8 8	5	µg			88	- 30			
Methyl tert- utyl Ether (MTBE)		5	µg				- 30			
Methylene Chloride	8	5	µg			8	- 30			
- e thyl- -pentanone (MIBK)	5		µg			5	-			†
Naphthalene		5	µg				- 30			†
n-Propylbenzene	30		µg			93.	- 30			
tyrene	8 5		µg			85	- 30			
1,1,1,2-Tetrachloroethane		5	µg			**2. 9** *	- 30		-	
1,1,2,2-Tetrachloroethane	8 8	5	µg			88	- 30			
Tetrachloroethylene			µg				-			†
Tetrahydrofuran			µg				- 30			
Toluene	8		µg			8	- 30			
1,2,3-Trichlorobenzene		5	µg				- 30			
1,2,4-Trichlorobenzene	.32	5	µg			3.	- 30			
1,1,1-Trichloroethane		5	µg				- 30			
1,1,2-Trichloroethane	8	5	µg			8	- 30			
Trichloroethylene	8		µg			8	- 30			
Trichlorofluoromethane (Freon 1)	37		µg			3.	- 30			
1,2,3-Trichloropropane	5	5	µg			5	- 30			
1,1,2-Trichloro- ,2,2 -trifluoroethane (Freon 13)		5	µg				- 30			
1,2,4-Trimethylbenzene	8	5	µg			8	- 30			
1,3,5-Trimethylbenzene	8 5	5	µg			8 5	- 30			
Vinyl Chloride	8		µg			8	-			†
m+p Xylene	8		µg				- 30			
o-Xylene	8		µg			8	- 30			
urrogate: ,2-Dichloroethane-d4	*26.6*		µg	5			- 30			
urrogate: Toluene-d8	*25.2*		µg	5			- 30			
urrogate: - r omofluorobenzene	*23.5*		µg	5			- 30			
CS Dup (B0079 8-BS D1)				Prepared & Analyzed: 3/						
Acetone	8	5	µg			8	-		5	†
Acrylonitrile			µg				- 30		5	
Benzene	5	5	µg			5	- 30		5	
Bromobenzene		5	µg				- 30		5	
Bromodichloromethane	8 13	5	µg			8 .3	- 30	3	5	
Bromoform		5	µg				- 30		5	
Bromomethane			µg				-	**25.9** *	5	R- 5 †
- utanone (MEK)	5		µg			5	-	.36 8	5	†
n- utylbenzene			µg				- 30	13.3	5	
sec- utylbenzene			µg				- 30	8	5	

QU IT CO O

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting imit	nits	p ike Level	ource Result	%REC	%REC imits	RPD	RPD imit	Notes
atch 0079 - SW- 5030B										
CS Dup (B0079 8-BS D1)				Prepared & Analyzed: 3/						
tert- utylbenzene			µg				- 30		5	
Carbon Disulfide		5	µg				- 30		5	
Carbon Tetrachloride	5	5	µg		5		- 30		5	
Chlorobenzene		5	µg				- 30	5	5	
Chlorodibromomethane	.34	5	µg		3.		- 30		5	
Chloroethane		5	µg				- 30		5	
Chloroform	8	5	µg		8		- 30	8	5	
Chloromethane	8	5	µg		8		-		5	†
-Chlorotoluene	5	5	µg		5		- 30	3	5	
-Chlorotoluene		5	µg				- 30	5	5	
1,2-Dibromo-3-chloropropane (DBCP)		5	µg		**2.6**	*	- 30	83	5	- , - 5
,2 -Dibromoethane (EDB)		5	µg				- 30		5	
Dibromomethane	.3	5	µg		3		- 30	8.32	5	
,2 -Dichlorobenzene		5	µg				- 30		5	
,3 -Dichlorobenzene		5	µg				- 30		5	
,4 -Dichlorobenzene		5	µg				- 30		5	
trans- ,4 -Dichloro- -butene	8		µg		8		- 30	5 8	5	
Dichlorodifluoromethane (Freon 2)	5	5	µg		5		-	3.	5	†
1,1-Dichloroethane		5	µg				- 30	53	5	
,2 -Dichloroethane		5	µg				- 30	8	5	
,1 -Dichloroethylene		5	µg				- 30	3.	5	
cis- ,2 -Dichloroethylene		5	µg				- 30		5	
trans- ,2 -Dichloroethylene			µg				- 30	58	5	
,2 -Dichloropropane		5	µg				- 30		5	
,3 -Dichloropropane	5	5	µg		5		- 30		5	
,2 -Dichloropropane	23	5	µg		3		- 30		5	†
1,1-Dichloropropene		5	µg				- 30		5	
cis- ,3 -Dichloropropene		5	µg				- 30	8	5	
trans- ,3 -Dichloropropene	5	5	µg		5		- 30		5	
Ethylbenzene	8	5	µg		8		- 30		5	
Hexachlorobutadiene	8		µg		8		- 30		5	3.
-Hexanone (M K)	8.3		µg		8.3		-	8	5	†
Isopropylbenzene (Cumene)	8	5	µg		8		- 30	8	5	
p-Isopropyltoluene (p-Cymene)		5	µg				- 30	8	5	
e thyl tert- utyl Ether (MTBE)	5	5	µg		5		- 30	33	5	
e thylene Chloride	.31	5	µg		3.		- 30		5	
- e thyl- -pentanone (MIBK)			µg				-		5	†
Naphthalene		5	µg				- 30	83	5	†
n-Propylbenzene			µg				- 30	3	5	
tyrene	53		µg		5.3		- 30		5	
1,1,1,2-Tetrachloroethane		5	µg		**9.2**	*	- 30	5	5	-
,1,2,2 -Tetrachloroethane	53	5	µg		5.3		- 30		5	
Tetrachloroethylene	8		µg		8		-	8.33	5	†
Tetrahydrofuran			µg				- 30	5 5	5	
Toluene	.3		µg		3		- 30		5	
,2,3 -Trichlorobenzene	8.37	5	µg		83.		- 30	8 8	5	
,2,4 -Trichlorobenzene	8	5	µg		8		- 30	37	5	
,1,1 -Trichloroethane	8 8	5	µg		88		- 30		5	
,1,2 -Trichloroethane		5	µg				- 30	3.	5	
Trichloroethylene	8		µg		8		- 30	3.	5	
Trichlorofluoromethane (Freon 1)			µg				- 30	3	5	
,2,3 -Trichloropropane	8	5	µg		8		- 30		5	

QU IT CO O

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting imit	nits	p ike Level	ource Result	%REC	%REC imits	RPD	RPD imit	Notes
atch 0079 - SW- 5030B										
CS Dup (B0079 8-BS D1)				Prepared & Analyzed: 3/						
,1,2 -Trichloro- ,2,2 -trifluoroethane (Freon 3)	8	5	µg			8	- 30		5	
,2,4 -Trimethylbenzene	85	5	µg			8 5	- 30		5	
,3, 5-Trimethylbenzene	5	5	µg			5	- 30		5	
Vinyl Chloride	5		µg			5	-	8	5	†
m+p Xylene			µg			3	- 30		5	
o-Xylene			µg				- 30	8	5	
urrogate: ,2-Dichloroethane-d4	*27.2*		µg	5			- 30			
urrogate: Toluene-d8	*25.1*		µg	5			- 30			
urrogate: - r omofluorobenzene	*23.3*		µg	5		3.	- 30			

F G/QU IFIE SUMMA

*	QC result is outside of established limits
†	Wide recovery limits estabished for difficult compound.
‡	Wide RPD limits estabished for difficult compound.
#	Data e ceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
DL-	Elevated detection limits for all volatile compounds due to foaming sample matrix
-	aboratory fortified blank laboratory control sample recovery and duplicate recovery are outside of control limits Reported value for this compound is likely to be biased on the low side.
-	Either laboratory fortified blank laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits RPD between the two F C re sults is within method specified criteria
R- 5	aboratory fortified blank duplicate RPD is outside of control limits Reduced precision is anticipated for any reported value for this compound.
- 5	Continuing calibration did not meet method specifications and was biased on the low side for this compound. ignificant uncertainty is associated with the reported value which is likely to be biased on the low side.

CE IFICA IONS

Certified nalyses included in this eport

Analyte	Certifications
6 260B	
Acetone	CT,NH,NY
Acrylonitrile	CT,NY,RI
e nzene	CT,NH,NY,RI
r omodichloromethane	CT,NH,NY,RI
r omoform	CT,NH,NY,RI
r omomethane	CT,NH,NY,RI
- utanone (MEK)	CT,NH,NY
n- utylbenzene	NY
sec- utylbenzene	NY
tert- utylbenzene	NY
Carbon Disulfide	CT,NH,NY
Carbon Tetrachloride	CT,NH,NY,RI
Chlorobenzene	CT,NH,NY,RI
Chlorodibromomethane	CT,NH,NY,RI
Chloroethane	CT,NH,NY,RI
Chloroform	CT,NH,NY,RI
Chloromethane	CT,NH,NY,RI
Dibromomethane	NH,NY
,2 -Dichlorobenzene	CT,NY,RI
1,3-Dichlorobenzene	CT,NH,NY,RI
1,4-Dichlorobenzene	CT,NH,NY,RI
trans- ,4 -Dichloro- -butene	NH,NY
Dichlorodifluoromethane (Freon 2)	NH,NY,RI
,1 -Dichloroethane	CT,NH,NY,RI
1,2-Dichloroethane	CT,NH,NY,RI
1,1-Dichloroethylene	CT,NH,NY,RI
trans- ,2 -Dichloroethylene	CT,NH,NY,RI
,2 -Dichloropropane	CT,NH,NY,RI
2,2-Dichloropropane	NH,NY
1,1-Dichloropropene	NH,NY
cis- ,3 -Dichloropropene	CT,NH,NY,RI
trans- ,3 -Dichloropropene	CT,NH,NY,RI
Ethylbenzene	CT,NH,NY,RI
Hexachlorobutadiene	CT,NH,NY
-Hexanone (M K)	CT,NH,NY
Isopropylbenzene (Cumene)	NY
p-Isopropyltoluene (p-Cymene)	CT,NH,NY
e thyl tert- utyl Ether (MTBE)	CT,NH,NY
Methylene Chloride	CT,NH,NY,RI
- e thyl- -pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY
n-Propylbenzene	CT,NH,NY
tyrene	CT,NH,NY
,1,1,2 -Tetrachloroethane	CT,NH,NY
1,1,2,2-Tetrachloroethane	CT,NH,NY,RI
Tetrachloroethylene	CT,NH,NY,RI
Toluene	CT,NH,NY,RI

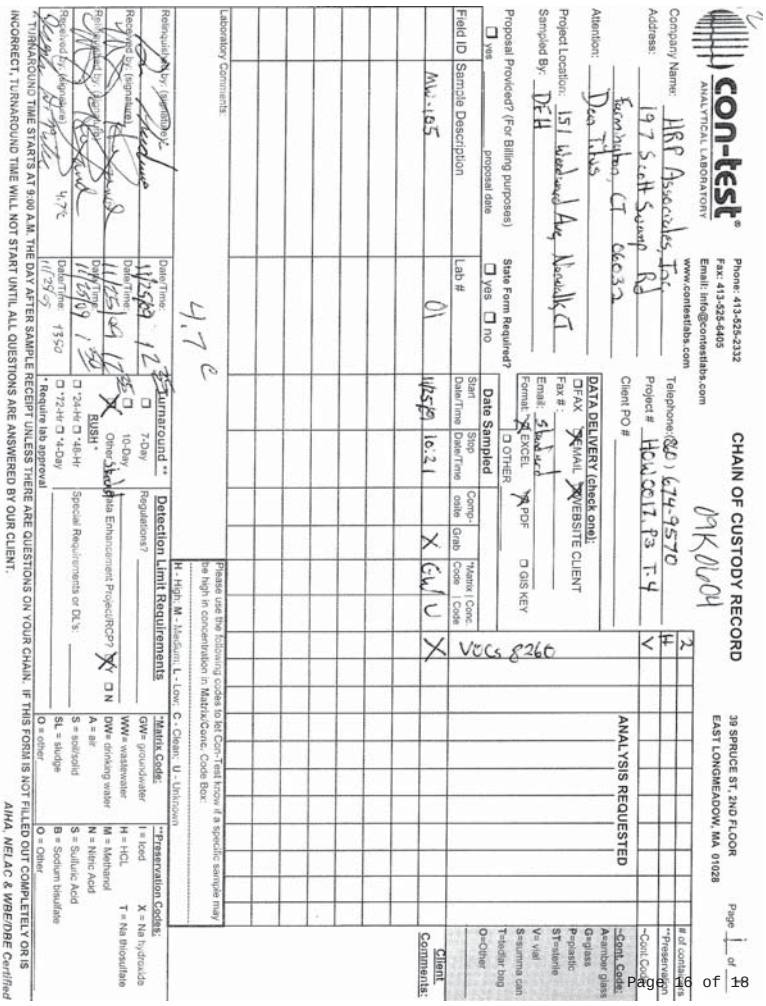
CE IFICA IONS

Certified nalyses included in this eport

Analyte	Certifications
46 260B	
,2,3 -Trichlorobenzene	NH,NY
1,2,4-Trichlorobenzene	CT,NH,NY
1,1,1-Trichloroethane	CT,NH,NY,RI
1,1,2-Trichloroethane	CT,NH,NY,RI
Trichloroethylene	CT,NH,NY,RI
Trichlorofluoromethane (Freon 1)	CT,NH,NY,RI
,2,3 -Trichloropropane	NH,NY
1,2,4-Trimethylbenzene	NY
1,3,5-Trimethylbenzene	NY
Vinyl Chloride	CT,NH,NY,RI
m+p Xylene	CT,NH,NY,RI
o-Xylene	CT,NH,NY,RI

The CON-TEST Environmental aboratory operates under the following certifications and accreditations

Code	Description	Number	E pires
AIHA	American Industrial Hygiene Association	33	
A	assachusetts DEP	- A	30
CT	Connecticut Department of Public Health	PH- 5	30
NY	New York tate Department of Health	8 NELAP	
NH	New Hampshire Environmental ab	5 NELAP	5
RI	Rhode Island Department of Health	AO	30
NC	North Carolina Div. of Water Quality	5	31
NJ	New Jersey DEP	A NELAP	30
F	Florida Department of Health	E8 NELAP	30
T	ermont Department of Health ead aboratory	5036	30
WA	tate of Washington Department of Ecology	C 5	3/ 3/



con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028
CHAIN OF CUSTODY RECORD
Page 1 of 2
Company Name: HRP Associates, Inc.
Address: 197 Scott Swamp Rd Farmington, CT 06032
Attention: Dan Tims
Project Location: 151 Woodland Ave, Naugatuck, CT
Sampled By: DTH
Telephone #: (860) 674-9570
Project #: HOWCO17.13 T-4
Client PO #:
DATA DELIVERY (check one): FAX EMAIL WEBSITE CLIENT
Fax #:
Email: Dtims@hrpassociates.com
Format: EXCEL PDF GIS KEY OTHER
Proposal Provided? (For Billing purposes) yes
State Form Required? yes no
proposal date
Laboratory Comments:
Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High M - Medium L - Low C - Clean U - Unknown
Field ID / Sample Description: MW-105
Lab #: 01
Date Sampled: Start Date/Time 11/29/17 14:21; Stop Date/Time
Matrix Code: Comp-osite; Grab: X; Matrix: GW; Conc. Code: U
ANALYSIS REQUESTED: VOCs 8260
# of containers: 2
Preservative: HCl
Cont. Code: V
Relinquished by: (Signature) Date/Time 11/29/17 15:20
Received by: (Signature) Date/Time 11/29/17 15:20
Relinquished by: (Signature) Date/Time 11/29/17 17:00
Received by: (Signature) Date/Time 11/29/17 17:00
Turnaround ** 7-Day 10-Day Other RUSH
* Require lab approval *72-Hr *48-Hr *24-Hr *4-Day
Detection Limit Requirements
Regulations?
Data Enhancement Project/RCP? N
Special Requirements or DL's:
*Matrix Code: GW= groundwater WW= wastewater DW= drinking water A = air S = soil/sold SL = sludge O = other
**Preservation Codes: I = Iced H = HCL M = Methanol N = Nitric Acid S = Sulfuric Acid B = Sodium bisulfate X = Na hydroxide T = Na thiosulfate
Cont. Codes: A=amber glass G=glass P=plastic ST=sterile V= vial S=summa can T=teddar bag O=Other
Client Comments:
TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.
AIHA, NELAC & WBE/DBE Certified

www.contestlabs.com

con-test ANALYTICAL LABORATORY

39 Spruce St.
East Longmeadow, MA.
01028
P: 413-525-2332
F: 413-525-6405

Sample Receipt Checklist

CLIENT NAME: HRP RECEIVED BY: JPP DATE: 11/25/09

1) Was the chain(s) of custody relinquished and signed? Yes No
2) Does the chain agree with the samples? Yes No
If not, explain:
3) Are all the samples in good condition? Yes No
If not, explain:
4) How were the samples received:
On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑
Were the samples received in Temperature Compliance of (2-6°C)? Yes No
Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.7°C
5) Are there Dissolved samples for the lab to filter? Yes No
Who was notified _____ Date _____ Time _____
6) Are there any samples "On Hold"? Yes No Stored where: _____
7) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
Who was notified _____ Date _____ Time _____
8) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers sent in to Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz clear jar	
500 mL Amber		4 oz clear jar	
250 mL Amber (8oz amber)		2 oz clear jar	
1 Liter Plastic		Other glass jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		Air Cassette	
40 mL Vial - type listed below	2	Brass Sleeves	
Colisure / bacteria bottle		Tubes	
Dissolved Oxygen bottle		Summa Cans	
Flashpoint bottle		Regulators	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl 2 # Methanol _____
Bisulfate _____ # DI Water _____ Time and Date Frozen: _____
Thiosulfate _____ Unpreserved _____
Do all samples have the proper pH: Yes No N/A

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Co -Te t Analytical Laboratory ***Client:*** HRP A iate , In . (Private)
Project Location: 151 W dward Ave., Norwalk, CT ***Project Number:*** 09K0604
Laboratory Sample ID(s): 09K0604-01 ***Sample Date(s):*** 11/25/2009

List RCP Methods Used:
SW-846 8260B

1	For ach analytical meth d re re d in this laboratory report package, were all pe ified QA/QC perf rman riteria llow d, in luding th req uirem nt to xplain any riteria alling utsid ac ptable guidelin , as pe ified in th CTDEP meth d-spe ific Reas able Co id Proto l d um nts?	☑ Y	☐ No
1A	Were th meth d spe ified pre rvatio and holding tim req uirem nts met?	☑ Y	☐ No
1B	PH an d EPH Meth d nly: Was th VPH an d EPH meth d ducted with ut ignificant m dificatio (s Se tio 11.3 re pe tive RCP meth ds)?	☐ Y	☐ No ☑ N/A
2	Were all ample re ived by th laboratory in a ditio iste t with that d cribe d t h as iated hain- - ustody d um nt(s)?	☑ Y	☐ No
	Were ample re ived at an appropriate temperature (< 6 d gre C.)?	☑ Y	☐ No ☐ N/A
4	Were all QA/QC perf rman riteria pe ified in th CTDEP Reas able Co id Proto l d um nts achieved?	☐ Y	☑ No
A	Were reporting limits pe ified or re re d t h hain- - ustody?	☐ Y	☑ No
	Were th reportin g limits met?	☐ Y	☐ No
	For ach analytical meth d re re d in this laboratory report package, were re ults reported or all titu nts id ntifie d in th meth d-spe ific analyte lists pre ted in th Reas able Co id Proto l d um nts?	☑ Y	☐ No
7	Are proje t-spe ific matrix pik an d laboratory duplicate in lud d in this data t?	☐ Y	☑ No

Note For all qu stio to which th re po was No (with th exc ptio qu stio 7), additio al in rmatio must be provid d in an attach d narrative. If th an wer to qu stio 1, 1A, r 1B is No , th data packag d ot m et t h req uirem nts r Reas able Co id c." This rm may t be altered and all qu stio must be an wered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: _____ **Position: Laboratory Director**

Printed Name: Michael A. Erickson **Date: 12/14/09**

Name of Laboratory: Con-Test Analytical Laboratory

This certification form is to be used for RCP methods only.

APPENDIX D
CALCULATION OF 95% UCL FOR ETPH

1				General UCL Statistics for Data Sets with Non-Detects								
2	User Selected Options											
3	From File			J:\H\HOWEH - MR HAROLD HOWE, JR\151 WOODWARD AVE, NORWALK, CT\HOW0018RA\SS\UCL\PRA2								
4	Full Precision			OFF								
5	Confidence Coefficient			95%								
6	Number of Bootstrap Operations			2000								
7												
8												
9	ETPH PRA2											
10												
11	General Statistics											
12	Number of Valid Data			22			Number of Detected Data			11		
13	Number of Distinct Detected Data			10			Number of Non-Detect Data			11		
14							Percent Non-Detects			50.00%		
15												
16	Raw Statistics						Log-transformed Statistics					
17	Minimum Detected			3			Minimum Detected			1.099		
18	Maximum Detected			4000			Maximum Detected			8.294		
19	Mean of Detected			395.2			Mean of Detected			3.142		
20	SD of Detected			1197			SD of Detected			2.127		
21	Minimum Non-Detect			2			Minimum Non-Detect			0.693		
22	Maximum Non-Detect			13			Maximum Non-Detect			2.565		
23												
24	Note: Data have multiple DLs - Use of KM Method is recommended						Number treated as Non-Detect			16		
25	For all methods (except KM, DL/2, and ROS Methods),						Number treated as Detected			6		
26	Observations < Largest ND are treated as NDs						Single DL Non-Detect Percentage			72.73%		
27												
28	UCL Statistics											
29	Normal Distribution Test with Detected Values Only						Lognormal Distribution Test with Detected Values Only					
30	Shapiro Wilk Test Statistic			0.375			Shapiro Wilk Test Statistic			0.835		
31	5% Shapiro Wilk Critical Value			0.85			5% Shapiro Wilk Critical Value			0.85		
32	Data not Normal at 5% Significance Level						Data not Lognormal at 5% Significance Level					
33												
34	Assuming Normal Distribution						Assuming Lognormal Distribution					
35	DL/2 Substitution Method						DL/2 Substitution Method					
36	Mean			200			Mean			2.266		
37	SD			849.7			SD			1.792		
38	95% DL/2 (t) UCL			511.7			95% H-Stat (DL/2) UCL			214.6		
39												
40	Maximum Likelihood Estimate(MLE) Method			N/A			Log ROS Method					
41	MLE yields a negative mean						Mean in Log Scale			1.457		
42							SD in Log Scale			2.465		
43							Mean in Original Scale			198.5		
44							SD in Original Scale			850		
45							95% t UCL			510.3		
46							95% Percentile Bootstrap UCL			558.7		
47							95% BCA Bootstrap UCL			745		
48							95% H-UCL			1326		
49												
50	Gamma Distribution Test with Detected Values Only						Data Distribution Test with Detected Values Only					
51	k star (bias corrected)			0.243			Data do not follow a Discernable Distribution (0.05)					
52	Theta Star			1629								

	A	B	C	D	E	F	G	H	I	J	K	L
53					nu star	5.338						
54												
55					A-D Test Statistic	1.836	**Nonparametric Statistics**					
56					5% A-D Critical Value	0.84					Kaplan-Meier (KM) Method	
57					K-S Test Statistic	0.84					Mean	199.6
58					5% K-S Critical Value	0.279					SD	830.2
59	**Data not Gamma Distributed at 5% Significance Level**										SE of Mean	185.6
60											95% KM (t) UCL	519.1
61	**Assuming Gamma Distribution**										95% KM (z) UCL	505
62					Gamma ROS Statistics using Extrapolated Data						95% KM (jackknife) UCL	511.1
63					Minimum	0.000001					95% KM (bootstrap t) UCL	8064
64					Maximum	4000					95% KM (BCA) UCL	558.6
65					Mean	197.6					95% KM (Percentile Bootstrap) UCL	555.8
66					Median	1.5					95% KM (Chebyshev) UCL	1009
67					SD	850.2					97.5% KM (Chebyshev) UCL	1359
68					k star	0.0983					99% KM (Chebyshev) UCL	2047
69					Theta star	2011						
70					Nu star	4.323	**Potential UCLs to Use**					
71					AppChi2	0.853					99% KM (Chebyshev) UCL	2047
72					95% Gamma Approximate UCL (Use when n >= 40)	1001						
73					95% Adjusted Gamma UCL (Use when n < 40)	1142						
74	**Note: DL/2 is not a recommended method.**											
75												
76	**Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.**											
77	**These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).**											
78	**For additional insight, the user may want to consult a statistician.**											