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BUILDING A BETTER WORLD

GROUNDWATER MONITORING REPORT
September 2009

GENERAL ELECTRIC PUERTO RICO INVESTMENT, INC.
PATILLAS, PUERTO RICO

Prepared For:

General Electric Energy

Prepared By:

MWH Americas, Inc.

November 2009

GROUNDWATER MONITORING REPORT
SEPTEMBER 2009
GENERAL ELECTRIC PUERTO RICO INVESTMENT, INC.
PATILLAS, PUERTO RICO

FOR

General Electric Energy

Schenectady, New York

United States

Prepared By November 30, 2009

Bradly Toth
Senior Scientist
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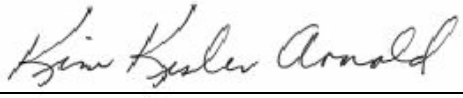
Date

Reviewed By  November 30, 2009

Kim Kesler-Arnold
Principal Project Manager
MWH Americas, Inc

Date

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ACRONYMS AND ABBREVIATIONS

1,1,1-TCA	1,1,1-Trichloroethane
1,1,2-TCA	1,1,2-Trichloroethane
1,1-DCA	1,1-Dichloroethane
1,1-DCE	1,1-Dichloroethene
1,2-DCA	1,2-Dichloroethane
amsl	above mean sea level
COC	Constituent of concern
DO	dissolved oxygen
ft/ft	feet per foot
GE	General Electric Energy
HCL	hydrochloric acid
MCL	Maximum Contaminant Level
ORP	oxidation reduction potential
PPE	personal protection equipment
QA/QC	quality assurance/quality control
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
SOP	standard operating procedure
SWMU	Solid Waste Management Unit
VOCs	volatile organic compounds
µg/l	micrograms per liter

1.0 INTRODUCTION

This Groundwater Monitoring Report describes the activities performed to evaluate groundwater quality beneath and downgradient of the General Electric (GE) Puerto Rico Investment facility (Site) located in Patillas, Puerto Rico. During this effort, MWH performed the following activities:

- Measuring groundwater elevations from the existing onsite and accessible offsite monitoring wells.
- Groundwater sampling and analysis to provide recent groundwater quality data onsite and offsite.

These activities were performed in accordance with the *Groundwater Modeling Work Plan* (MWH, December 2007), which was approved by the U.S. Environmental Protection Agency (USEPA) in March 2009. This is the second of four quarterly groundwater monitoring event associated with the approval of this work plan. After completing four quarters of groundwater monitoring, GE will propose a long-term sampling program if deemed warranted.

2.0 PROJECT BACKGROUND

The Site is located on the southeastern coast of Puerto Rico at Road #3, Km 122.9, Patillas, Puerto Rico. The Site location is shown on ***Figure 1***. The Site covers approximately 7.8 acres. From November 1974 to March 1987, GE (operating as Caribe General Electric Products) manufactured and assembled electro-mechanical products. A French Sump was constructed at the facility in 1977 and was used for waste disposal until 1980. The Site was idle from 1987 to 1993, when no manufacturing operations were conducted. Since 1993, GE has used the facility for warehousing and assembly operations under the current name of GE Puerto Rico Investment, Inc.

In October 1990, soils in and adjacent to the former French Sump were excavated, stabilized and shipped to a Resource Conservation and Recovery Act (RCRA)-approved landfill. The location of the sump is shown on ***Figure 2.*** The USEPA accepted the closure of the sump as complete in March 1991. The impacted groundwater that is the subject of this investigation is associated with the former French Sump and extends south-southwest from the facility to the flood plain of the Rio Grande de Patillas.

Investigation of the groundwater impacts in the area of the French Sump began in 1989 as part of a RCRA Facility Investigation (RFI). Eleven onsite monitoring wells were installed adjacent to and downgradient of the former French Sump (see ***Figure 2***). Five monitoring wells were also installed offsite to assess groundwater quality. Of the total 16 wells, one onsite well (P-4A) was abandoned; one offsite well (P-12) cannot be located and was presumably destroyed; and four offsite wells (P-13S, P-13D, P-14S, and P-14D) have had their access permission rescinded by the property owner.

The *RFI Report* (SEC, 1991) was submitted to the USEPA in 1991. Quarterly groundwater sampling was conducted from 1991 through 1999. Volatile organic compounds (VOCs), namely 1,1,1-trichloroethane (1,1,1-TCA) and 1,1-DCE, were identified in the RFI Report as the constituents of concern (COCs) in groundwater

within the alluvial/colluvial aquifer beneath the Site. The extent of 1,1,1-TCA does not extend offsite. However, the extent of 1,1-DCE impacted groundwater extends offsite to the south-southwest, which is generally consistent with the direction of apparent groundwater flow.

In 2003, GE installed six additional monitoring wells offsite to determine the extent of the 1,1-DCE in groundwater. The results of this investigation were provided to USEPA in a *Supplemental RFI Report* (EarthTech, 2005). USEPA's response to this *Supplemental RFI Report* stated that the information was not sufficient to determine the extent of impacted groundwater and therefore the CA-750 determination could not be completed. At the time of the Supplemental RFI, the farthest downgradient wells (P-13S/D and P-14S/D) had not been sampled for nine years, and access to these wells had been rescinded. From 1991 through 1996, these wells were sampled eight times and VOCs were not detected.

In 2006, GE installed an additional monitoring well cluster (P-20S and P-20D) to further delineate the extent of 1,1-DCE in groundwater. Analytical results from the shallow well (P-20S) did not show the presence of 1,1-DCE. However, groundwater samples from the deeper well (P-20D) indicated 1,1-DCE downgradient and offsite at a concentration of 37 to 44 micrograms per liter (µg/l), which is greater than its Maximum Contaminant Level (MCL) of 7 µg/l.

Based on these results, the USEPA requested that GE pursue access to additional downgradient properties to install monitoring wells to further define the extent of the 1,1-DCE in groundwater. GE intended to install these proposed wells downgradient of P-20S/D and upgradient of P-13S/D and P-14S/S. Although numerous attempts were made by GE, access was not granted to the properties, and the wells could not be installed. As a result, GE and USEPA agreed that the project should move forward to estimate the extent of 1,1-DCE in groundwater without the use of these wells.

In July 2009, GE performed fate and transport modeling to estimate the extent of 1,1-DCE in groundwater. The draft output of the model, which contained the

necessary information to make the CA-750 determination, was provided to EPA in September 2009. The model estimated that 1,1-DCE may have reached the Rio Grande de Patillas at a concentration of 23 µg/L. This concentration is less than 10 times the MCL for 1,1-DCE (7 µg/L) and is considered an insignificant discharge to a surface water by USEPA.

3.0 FIELD ACTIVITIES

The following field activities were performed during this monitoring event:

- Measuring groundwater elevations from onsite and accessible offsite monitoring wells.
- Collecting groundwater samples from monitoring wells for laboratory analysis.

These activities were performed by MWH during the week of September 28, 2009. The procedures used during these activities are described in the following sections.

3.1 DEPTH TO GROUNDWATER MEASUREMENTS

Depth to groundwater measurements were collected from onsite and accessible offsite monitoring wells. Offsite wells P-13S, P-13D, P-14S, and P-14D were not measured because the property owner would not allow access to the wells.

Groundwater depths were measured by using a decontaminated water-level meter to record the depth-to-water below a surveyed reference point (top of well casing). The water level meter was slowly lowered into the monitoring well until the meter was activated (as indicated by an audible tone). The depth-to-water reading was then measured at 30 second intervals until two consecutive readings were identical. This measurement was then recorded in the field notebook.

3.2 GROUNDWATER SAMPLING PROCEDURES AND ANALYSIS

The following 12 monitoring wells were sampled during this field event: P-7, P-7A, P-10A, P-15DD, P-16S, P-17D, P-18S, P-18D, P-19S, P-19D, P-20S, and P-20D. Well locations are indicated on ***Figure 2***. Although planned for sampling, monitoring well P-8 did not contain sufficient water; and therefore, a groundwater sample could not be collected from this well.

The groundwater samples were collected in accordance with the USEA Region II *Groundwater Sampling Procedure – Low Stress (Low Flow) Purging and Sampling*. For each monitoring well, the following sequence of activities was performed:

- The depth-to-water was measured in the monitoring well.
- The well was then purged using a submersible bladder pump with a new disposable bladder and unused, disposable discharge tubing.
- The following indicator parameters were measured using an in-line water quality meter: pH, specific conductivity, temperature, dissolved oxygen (DO), turbidity, and oxidation-reduction potential (ORP). Parameters were recorded every three to five minutes until they had stabilized for three consecutive readings.
- The depth-to-water in the monitoring well was monitored to ensure that drawdown did not exceed 0.3 feet and the water level in the well was stable prior to sampling.
- After the parameters had stabilized, the in-line water quality measuring device was disconnected and the groundwater sample was collected directly from the discharge tubing.
- Groundwater samples were collected in laboratory-supplied vials, which were pre-preserved with hydrochloric acid (HCl).

Field sampling records for each well are presented in ***Appendix A***. The sample bottles were labeled with date, time, sample identification, analytical parameters, and the sampler's initials, and immediately placed on ice in a cooler. The cooler was maintained under chain-of-custody until arrival at the laboratory.

The following quality assurance/quality control (QA/QC) samples were collected during this event:

- Two field duplicates samples:

  Dup-01 – duplicate of P-16S
  Dup-02 – duplicate of P-19S

- Two equipment blank samples collected from the submersible sampling pump:

  EB-01
  EB-02

- One matrix spike/matrix spike duplicate (MS/MSD) from well P-19D

- One trip blank

Groundwater and QA/QC samples were analyzed for VOCs by USEPA Method SW846 8260B for the Appendix IX list of compounds by Lancaster Laboratories, Inc. of Lancaster, Pennsylvania. The groundwater analytical data were certified by a Puerto Rican Chemist and validated in accordance with the USEPA Region II Standard Operating Procedure (SOP) HW-6 – CLP Organics Data Review and Preliminary Review. The data were found to be acceptable for use without significant qualification. The complete analytical data package is presented in ***Appendix B***.

Groundwater samples were collected using a bladder pump and dedicated, disposable tubing. The bladder pump was decontaminated before and between each use with an Alconox® wash and distilled water rinse. A new bladder and new tubing were used for each well.

3.3 INVESTIGATION DERIVED WASTE MANAGEMENT

Purge water and decontamination liquids were collected in 5-gallon buckets and transferred to a 55-gallon drum located onsite. The drum of IDW was staged at a secure area on the GE facility. GE plans to dispose of the IDW as non-hazardous waste using Clean Harbors Caribe, Inc. All used personal protective equipment (PPE) was collected in trash bags and disposed of as general refuse.

4.0 GROUNDWATER MONITORING RESULTS

4.1 GROUNDWATER ELEVATIONS

The depth to groundwater measurements and groundwater elevations for September 2009 are presented in ***Table 1***. Groundwater is generally encountered 7 to 17 feet below ground surface, or 21 to 56 feet above mean sea level (amsl). Groundwater elevation contours for the shallow and deep aquifers are presented in ***Figure 3a*** and ***Figure 3b***, respectively. Based on these contours the groundwater flow direction is generally southwest, towards the Quebrada Mamey and the Rio Grande de Patillas. The horizontal gradient for the shallow aquifer onsite is 0.0224 vertical feet per horizontal foot (ft/ft). The horizontal gradient for the deep aquifer offsite is 0.015 ft/ft. The vertical gradient between these two aquifers is approximately 0.086 ft/ft downward onsite and approximately 0.0246 ft/ft downward offsite.

4.2 GROUNDWATER SAMPLE RESULTS

Groundwater sample results are presented in ***Table 2*** with the detected sample results posted in ***Figure 4***. The following table summarizes the results for the compounds that were detected during the September 2009 sampling event (12 samples were collected). Concentrations are reported in micrograms per liter (µg/L).

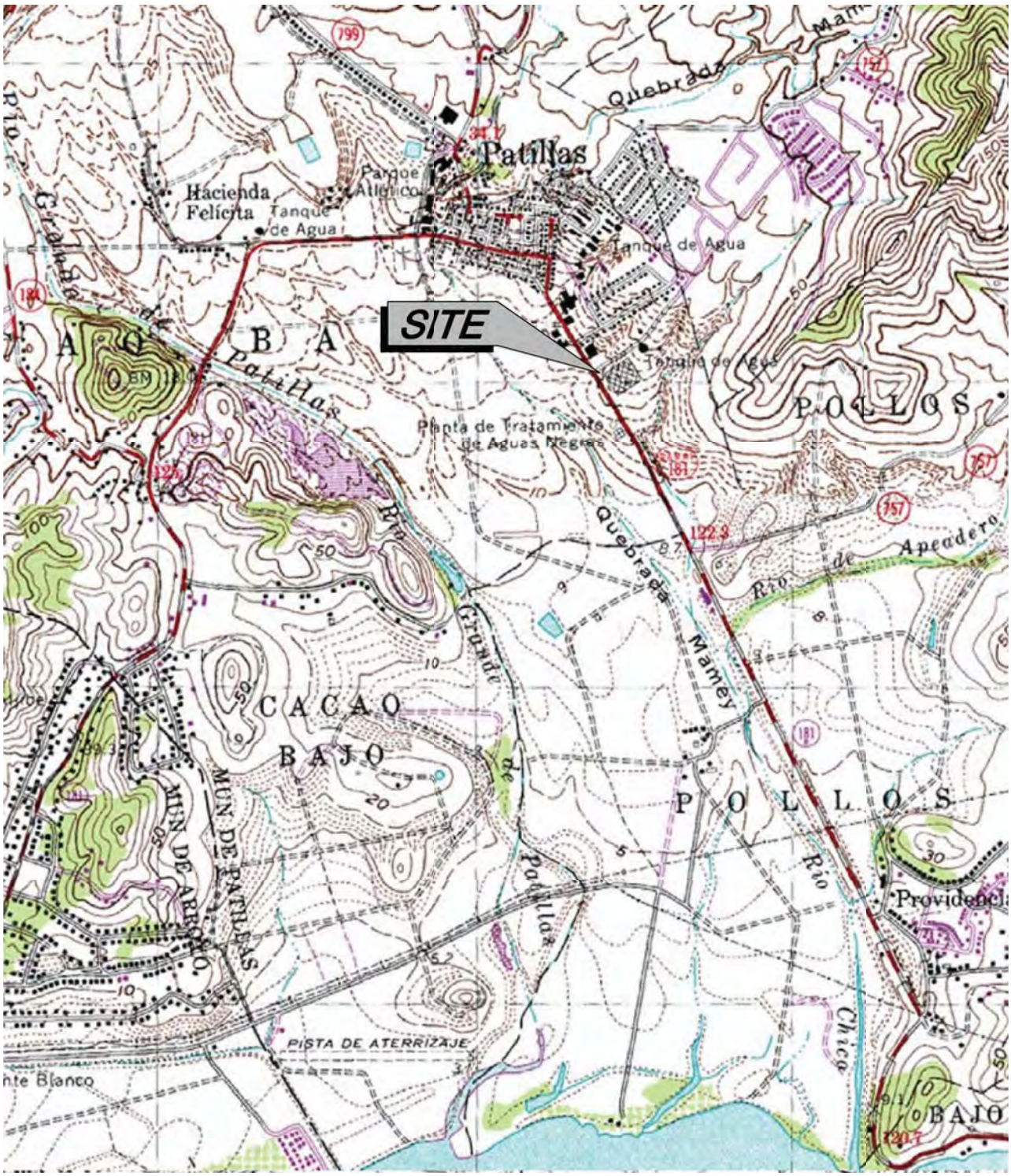
Compound	Number of Detections	Lowest Detected Result	Highest Detected Result	MCL	# Detections Above MCL
1,1,1-Trichloroethane (1,1,1-TCA)	3	0.8	11	200	0
1,1,2-Trichloroethane (1,1,2-TCA)	0	N/A	N/A	5	0
1,1-Dichloroethane (1,1-DCA)	6	1	18	Not Available	-
1,1-Dichloroethene (1,1-DCE)	11	2	760	7	6
1,2-Dichloroethane (1,2-DCA)	1	2	2	5	0
Chloroform	4	0.9	1	70	0

Compound	Number of Detections	Lowest Detected Result	Highest Detected Result	MCL	# Detections Above MCL
Trichlorofluoromethane	1	3	3	70	0

As shown on the summary table, 1,1-DCA and 1,1-DCE were the most commonly detected VOCs, with 1,1-DCE the only compound exceeding the MCL. The highest VOC concentrations (primarily 1,1-DCA and 1,1-DCE) were detected in the sample collected from well P-10A, which is located onsite and downgradient of the former French sump. The 1,1-DCE concentration for the farthest downgradient monitoring well sampled (MW-20D, approximately 1,300 feet southwest of the former French sump) was 28 µg/L. The approximate extent of 1,1-DCE in groundwater (based on the recent sample results) is presented ***Figure 5***. As shown in this figure, the extent of 1,1-DCE in the shallow zone is MW-20S; for the deep zone, the extent is not defined by the downgradient monitoring wells. As noted previously, wells located farther downgradient (P-13S/D and P-14S/D, as shown on ***Figure 2***) could not be sampled because the property owner denied access to the wells. From 1991 through 1996, these wells did not contain VOCs at detectable levels.

The historical sample results for constituents of concern in groundwater within the alluvial/colluvial aquifer are presented in ***Table 3***. The results obtained during this monitoring event indicate decreased 1,1-DCE concentrations in monitoring wells P-10A and P-16S. Concentrations in other wells (excluding P-20S) remained generally stable and consistent with historical results. For monitoring well P-20S, 1,1-DCE was detected at a concentration of 7 µg/L. 1,1-DCE has not been historically detected in this well.

FIGURES



Source:
U.S.G.S. 7.5 minute quadrangle of Patillas, Puerto Rico, Dated 1977, photorevised 1982.

north

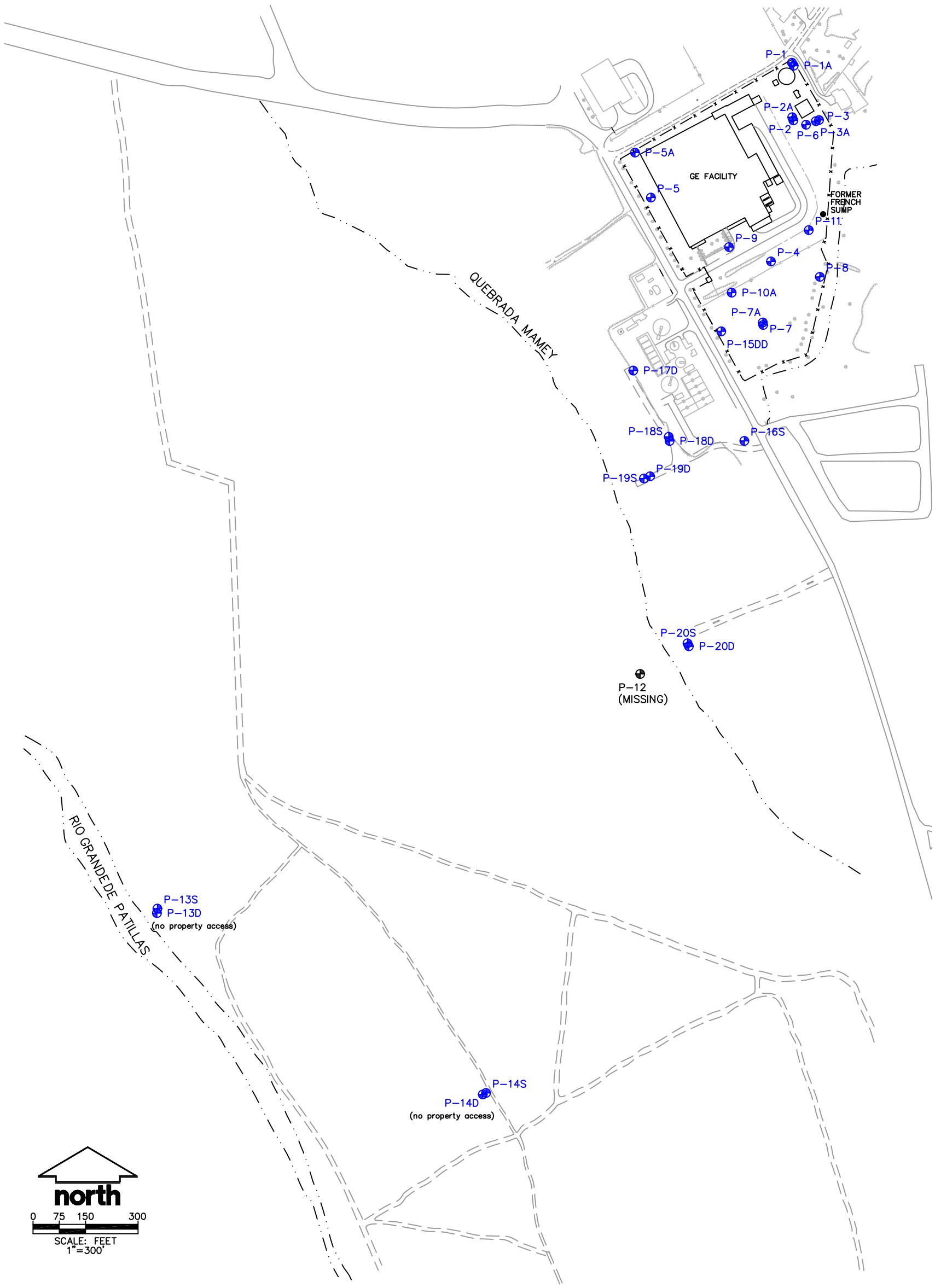
GE Puerto Rico Investment Inc.
Patillas, Puerto Rico

Site Location Map

Figure 1

MWH

Drawn By & Date: BRT, 6/5/09 | Approved By & Date: BRT | Revised By & Date: | Approved By & Date:



north

0 75 150 300

SCALE: FEET
1"=300'

LEGEND

- RIVER/STREAMS
- TREE COVER
- FENCE
- BUILDING
- MONITORING WELL

GE Puerto Rico Investment, Inc.
Patillas, Puerto Rico

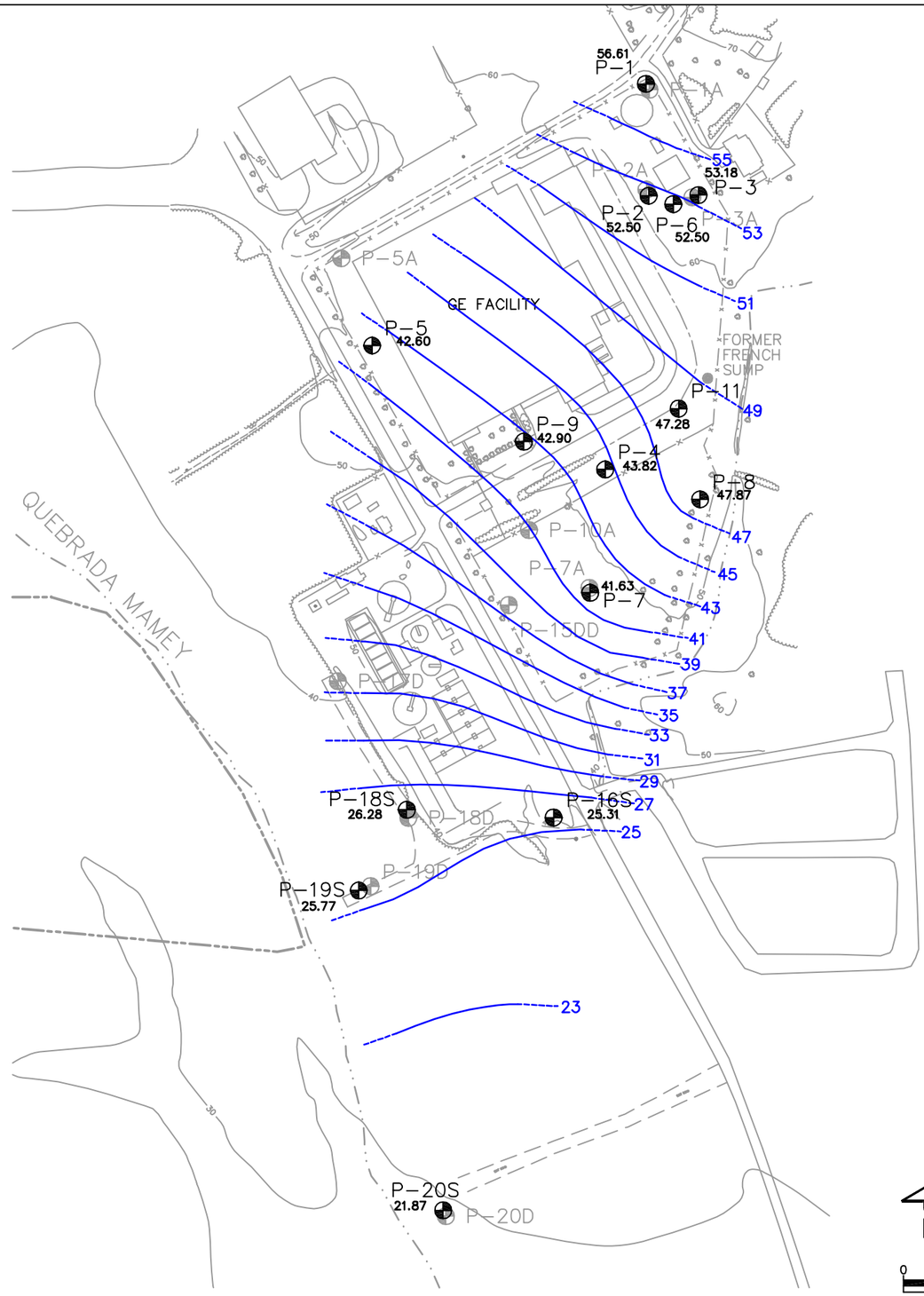
Site Map

FIGURE 2

MWH

J:\Jobs\01a_400 General Electric Energy\72 - PATILLAS Puerto Rico\05 - CADD\CADD - NEW Basemap\Patillas Basemap 8-05-09.dwg Aug/13/09

Drawn By & Date: DM 7/15/09	Approved By & Date:	Revised By & Date: DTM 10/21/09	Approved By & Date:



LEGEND

- RIVER/STREAMS
- TREE COVER
- FENCE
- BUILDING
- MONITORING WELL (NOT USED FOR CONTOURING)
- MONITORING WELL
- 23 — EQUIPOTENTIAL CONTOUR, DASHED WHERE INFERRED
- 21.87 — WATER TABLE ELEVATION (FEET ABOVE SEA LEVEL)

NOTES:

1. CONTOUR INTERVAL = 2 FEET

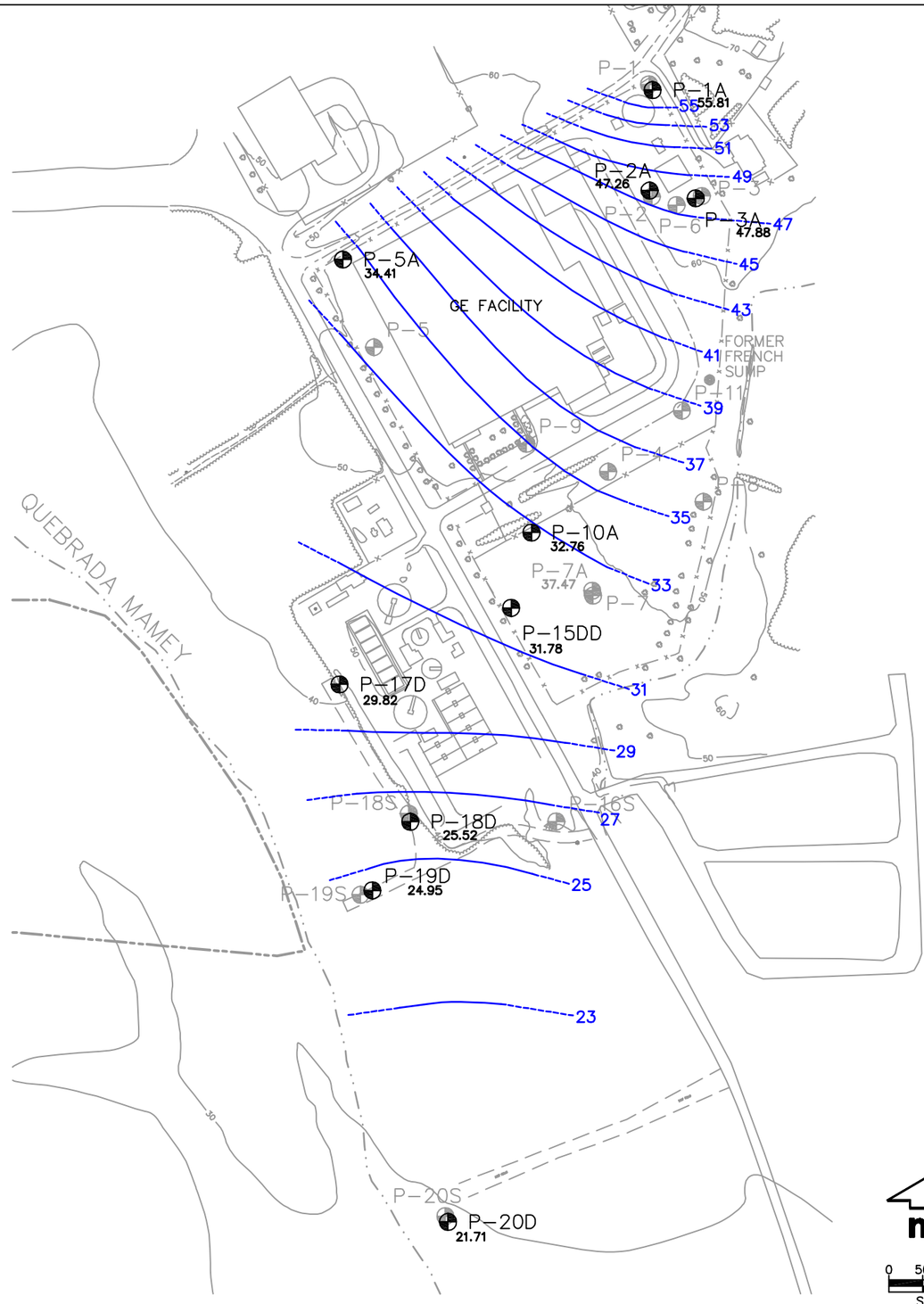
General Electric Puerto Rico Investment
Patillas, Puerto Rico

Shallow Groundwater Surface Map
September 2009

FIGURE 3a

MWH

\\Uladet1s02\jobs\01a_400 General Electric Energy\72 - PATILLAS Puerto Rico\05 - CADD\Quarterly GW Mon\Sept 09\Patillas GW - Shallow - Sept 2009.dwg Oct/22/09



LEGEND

- RIVER/STREAMS
- TREE COVER
- FENCE
- BUILDING
- MONITORING WELL (NOT USED FOR CONTOURING)
- MONITORING WELL
- 23 — EQUIPOTENTIAL CONTOUR, DASHED WHERE INFERRED
- 21.71 — WATER TABLE ELEVATION (FEET ABOVE SEA LEVEL)

NOTES:

1. CONTOUR INTERVAL = 2 FEET
2. WATER LEVEL AT P-7A WAS ANOMALOUS, AND THEREFORE NOT USED

north

0 50 100 200
SCALE: FEET
1"=200'

General Electric Puerto Rico Investment
Patillas, Puerto Rico

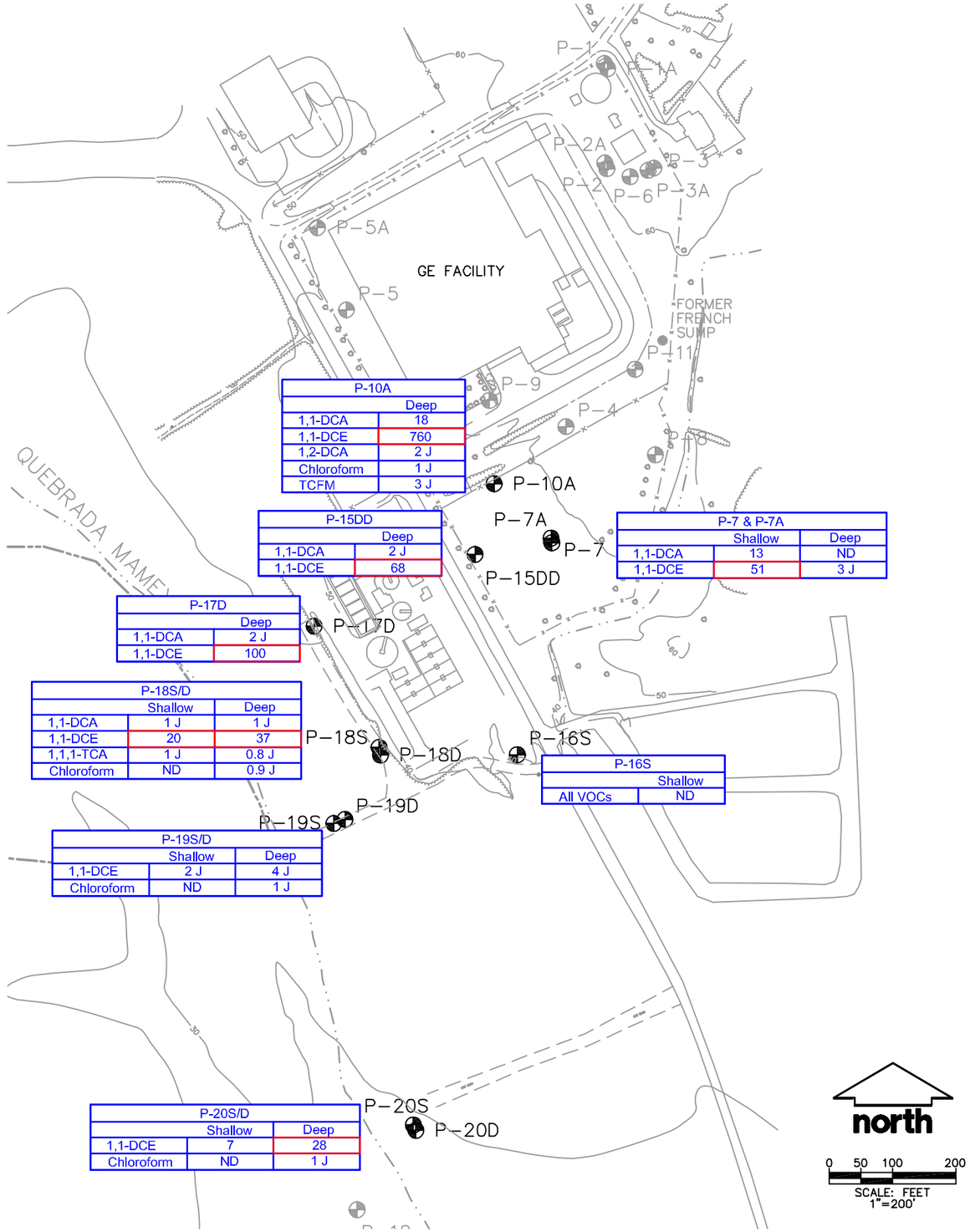
Deep Groundwater Surface Map
September 2009

FIGURE 3b

MWH

Drawn By & Date: DM 7/15/09 | Approved By & Date: | Revised By & Date: ATF 10/26/09 | Approved By & Date:

J:\01a_400 General Electric Energy\Y2 - PATILLAS Puerto Rico\05 - CADD\Quarterly GW Mon\Sept 09\Patillas GW - Deep - Sept 2009.dwg Oct/26/09



LEGEND

- RIVER/STREAMS
- TREE COVER
- FENCE
- BUILDING
- MONITORING WELL (NOT SAMPLED)
- MONITORING WELL (SAMPLED)

NOTES:

Results are reported in micrograms per liter (ug/L).

Shallow – The well is screened in the upper portion of the alluvium/colluvium aquifer.
Deep – The well is screened in the lower portion of the alluvium/colluvium aquifer.

	Compound	MCL
1,1,1–TCA	1,1,1–Trichloroethane	200
1,1,2–TCA	1,1,2–Trichloroethane	5
1,1–DCA	1,1–Dichloroethane	NA
1,1–DCE	1,1–Dichloroethene	7
1,2–DCA	1,2–Dichloroethane	5
	Chloroform	80
TCFM	Trichlorofluoromethane	NA

Sample Results that exceed MCLs are boxed in RED.

General Electric Puerto Rico Investment
Patillas, Puerto Rico

Groundwater Sample Results
September 2009

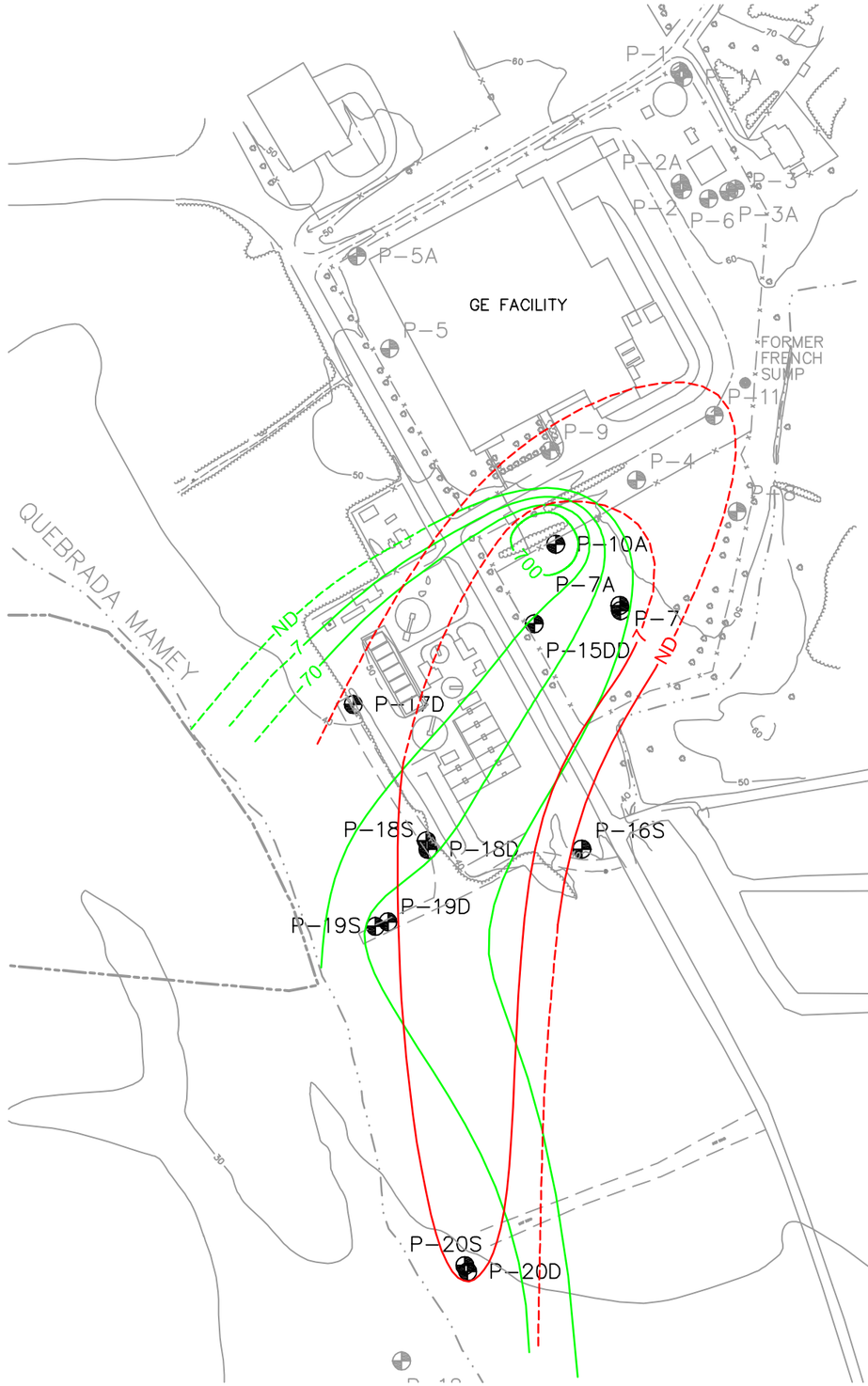
FIGURE 4

MWH

Drawn By & Date: DM 7/15/09 | Approved By & Date: BRT | Revised By & Date: ATF 10/26/09 | Approved By & Date: BRT

J:\01a 400 General Electric Enerav\72 – PATILLAS Puerto Rico\05 – CADD\Quarterly GW Mon\Sept 09\Patillas GW – VOC Results Sept 09 vBRT.dwg Oct/26/09

Drawn By & Date: DM 7/15/09 | Approved By & Date: BRT | Revised By & Date: ATF 10/26/09 | Approved By & Date:



LEGEND

- RIVER/STREAMS
- TREE COVER
- FENCE
- BUILDING
- MONITORING WELL (NOT SAMPLED)
- MONITORING WELL (SAMPLED)
- ISOCONTOUR 1,1-DCE IN DEEP GROUNDWATER
- ISOCONTOUR 1,1-DCE IN SHALLOW GROUNDWATER

NOTES:

Concentrations are reported in micrograms per liter (ug/L). Dashed where inferred.

Shallow – The well is screened in the upper portion of the alluvium/colluvium aquifer.
Deep – The well is screened in the lower portion of the alluvium/colluvium aquifer.

north

0 50 100 200
SCALE: FEET
1"=200'

General Electric Puerto Rico Investment
Patillas, Puerto Rico

Extent of 1,1-DCE in Groundwater
September 2009

FIGURE 5

MWH

J:\01a 400 General Electric Enero\72 - PATILLAS Puerto Rico\05 - CADD\Quarterly GW Mon\Sept 09\Patillas GW - VOC Results Sept 09 vBRT.dwg Oct/26/09

TABLES

Table 1
Groundwater Elevation Data - September 2009
GE Puerto Rico Investment
Patillas, Puerto Rico

Well No.	Aquifer Zone	Well Install Date	Boring Depth (ft bgs)	Land Surface Elevation (ft amsl)	Top Of Casing Elevation (ft amsl)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)
P- 1	Shallow	8/1/86	25.5	67.54	68.71	12.1	56.61
P- 1A	Deep Saprolite	8/7/86	70.0	67.47	68.71	12.9	55.81
P- 2	Shallow	8/1/86	20.5	61.85	63.60	11.1	52.50
P- 2A	Deep	8/20/86	69.0	62.23	63.46	16.2	47.26
P- 3	Shallow	8/4/86	25.5	63.54	64.58	11.4	53.18
P- 3A	Deep	8/15/86	70.0	63.23	64.68	16.8	47.88
P- 4	Shallow	7/29/86	19.11	51.25	52.92	9.1	43.82
P- 4A	*Abandoned*	7/31/86	63.0	51.66	52.88	NG	NG
P- 5	Shallow	8/4/86	20.5	52.29	53.90	11.3	42.60
P- 5A	Deep Saprolite	9/15/86	70.0	51.14	52.51	18.1	34.41
P- 6	Shallow	8/30/88	26.0	63.05	63.70	11.2	52.50
P- 7	Shallow	2/3/89	18.15	47.64	49.73	8.1	41.63
P- 7A	Deep Saprolite	2/2/89	58.2	47.80	49.67	12.2	37.47
P- 8	Shallow	2/3/89	17.7	52.19	54.87	7	47.87
P- 9	Shallow	2/6/89	17.4	50.35	52.32	9.42	42.90
P-10A	Deep Alluvium/Sap	2/9/89	51.5	47.92	49.86	17.1	32.76
P-11	Shallow	2/8/89	13.2	52.95	54.68	7.4	47.28
P-12	Shallow	11/20/89	29.5	19.70	21.82	NG	NG
P-13D	Deep	6/28/91	62.7	20.40	22.10	NG	NG
P-13S	Shallow	7/5/91	28.7	19.59	23.25	NG	NG
P-14D	Deep	7/10/91	67.8	16.28	19.38	NG	NG
P-14S	Shallow	7/13/91	30.5	15.64	18.07	NG	NG
P-15DD	Bedrock	5/26/04	73.6	45.48	47.68	15.9	31.78
P-16S	Shallow	5/27/04	26.3	40.39	42.61	17.3	25.31
P-17D	Deep	6/1/04	61.0	38.26	41.02	11.2	29.82
P-18S	Shallow	5/28/04	16.6	36.55	39.08	12.8	26.28
P-18D	Deep	5/31/04	50.0	36.26	38.52	13	25.52
P-19S	Shallow	5/28/04	15.8	33.89	36.37	10.6	25.77
P-19D	Deep	6/30/04	36.5	34.32	36.45	11.5	24.95
P-20S	Shallow	5/4/06	26.0	31.70	34.67	12.8	21.87
P-20D	Deep	5/4/06	52.0	31.50	34.31	12.6	21.71

Horizontal coordinates in Puerto Rico State Plane (feet), Zone 1, NAD 27
bgs - Below Ground Surface
amsl - Above Mean Sea Level
btoc - Below Top of Casing
NG - Not Gauged

Table 2
Groundwater Sample Results - September 2009
GE Puerto Rico Investment
Patillas, Puerto Rico

	RSL or MCL*	P-7	P-7A	P-10A	P-15DD	P-16S	P-16S (duplicate)	P-17D	P-18S	P-18D	P-19S	P-19S (duplicate)	P-19D	P-20S	P-20D
Volatile Organic Compound (ug/L)															
1,1,1,2-Tetrachloroethane	0.52	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	200*	**11**	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	**1 J**	**0.8 J**	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
1,1,2,2-Tetrachloroethane	0.067	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5*	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
1,1-Dichloroethane	2.4	**13**	1 U	**18**	**2 J**	1 U	1 U	**2 J**	**1 J**	**1 J**	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7*	**51**	**3 J**	**760**	**68**	0.8 U	0.8 U	**100**	**20**	**37**	**2 J**	**2 J**	**4 J**	**7**	**28**
1,1-Dichloropropene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	0.0096	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	70*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	15	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	0.2	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dibromoethane	0.05*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	600*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5*	1 U	1 U	**2 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	12	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichloropropane	730	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	75*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2,2-Dichloropropane	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	7,100	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
2-Chlorotoluene	730	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Chlorotoluene	2,600	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
4-Methyl-2-pentanone	2,000	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Acetone	22,000	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U	6 U
Benzene	5*	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene	20	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromochloromethane	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	0.12	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	8.5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	8.7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100*	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Chloroethane	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	0.19	0.8 U	0.8 U	**1 J**	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	**0.9 J**	0.8 U	0.8 U	**1 J**	0.8 U	**1 J**
Chloromethane	190	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70*	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
cis-1,3-Dichloropropene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	0.15	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromomethane	370	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	390	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Ethylbenzene	700*	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Hexachlorobutadiene	0.86	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Isopropylbenzene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Tertiary Butyl Ether	12	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene Chloride	5*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
m-Xylene	1,400	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Naphthalene	0.14	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
n-Propylbenzene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	1,400	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
p-Isopropyltoluene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
sec-Butylbenzene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	100*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5*	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Toluene	1000*	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	**0.8 J**	0.7 U	0.7 U	0.7 U
trans-1,2-Dichloroethene	100*	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
trans-1,3-Dichloropropene	-	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	1,300	2 U	2 U	**3 J**	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Vinyl Chloride	2*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Concentrations are reported in micrograms per liter (ug/L)
U - Non-Detect. The analyte was not detected above the indicated reporting limit.
J - Estimated. The analyte was detected below the reporting limit.
RSL - USEPA Regional Screening Level
MCL - Maximum Contaminant Level
Results that exceed USEPA MCLs are boxed.

Table 3
Historical Groundwater Sample Results
GE Puerto Rico Investment
Patillas, Puerto Rico

Shallow Zone Monitoring Wells

		1,1,1-TCA		1,1-DCA		1,1-DCE	
	MCL:	200		NA		7.0	
P-4	Feb-89	1.0	U	1.0	U	1.0	U
	Jul-91	1.0	U	1.0	U	1.0	U
	Aug-92	1.0	U	1.0	U	1.0	U
	Nov-92	1.0	U	1.0	U	1.0	U
	Feb-93	1.0	U	1.0	U	1.0	U
	May-93	1.0	U	1.0	U	1.0	U
	May-94	1.0	U	1.0	U	1.0	U
	Jun-95	1.0	U	1.0	U	1.0	U
	Jul-96	1.0	U	1.0	U	1.0	U
	Oct-97	1.0	U	1.0	U	1.0	U
	Nov-98	1.0	U	1.0	U	1.0	U
	Dec-99	1.0	U	1.0	U	1.0	U
	Jun-04	1.0	U	1.0	U	1.0	U
	Jun-09	1.0	U	1.0	U	1.0	U
P-5	Feb-89	1.0	U	1.0	U	1.0	U
	Aug-92	1.0	U	1.0	U	1.0	U
	Nov-92	1.0	U	1.0	U	1.0	U
	Feb-93	1.0	U	1.0	U	1.0	U
	May-93	1.0	U	1.0	U	1.0	U
	May-94	1.0	U	1.0	U	1.0	U
	Jun-95	1.0	U	1.0	U	1.0	U
	Jul-96	1.0	U	1.0	U	1.0	U
	Oct-97	1.0	U	1.0	U	1.0	U
	Nov-98	1.0	U	1.0	U	1.0	U
	Dec-99	1.0	U	1.0	U	1.0	U
P-7	Feb-89	**20**		1.0	U	**31**	
	Jul-91	**25**		**3.0**		**30**	
	Aug-92	**4.0**		1.0	U	1.0	U
	Nov-92	1.0	U	1.0	U	1.0	U
	Feb-93	1.0	U	1.0	U	1.0	U
	May-93	1.0	U	1.0	U	**5.0**	
	Aug-93	1.0	U	1.0	U	1.0	U
	Nov-93	**5.0**		1.0	U	**8.0**	
	Feb-94	**14**		1.0	U	**19**	
	May-94	**13**		1.0	U	**21**	
	Sep-94	**6.0**		1.0	U	**16**	
	Nov-94	1.0	U	1.0	U	**5.0**	
	Mar-95	1.0	U	1.0	U	**3.0**	
	Jun-95	1.0	U	1.0	U	**8.0**	
	Oct-95	1.0	U	1.0	U	**3.0**	
	Jan-96	1.0	U	1.0	U	**2.0**	
	Apr-96	1.0	U	1.0	U	**2.0**	
	Jul-96	1.0	U	1.0	U	1.0	U
	Oct-96	1.0	U	1.0	U	1.0	U
	Feb-97	**18**		1.0	U	**14**	
	Jun-97	**13**		1.0	U	**17**	
	Oct-97	1.0	U	1.0	U	**23**	
	Feb-98	1.0	U	1.0	U	1.0	U
	Jun-98	1.0	U	1.0	U	1.0	U
	Nov-98	1.0	U	1.0	U	1.0	U
	May-99	1.0	U	1.0	U	1.0	U
	Aug-99	1.0	U	1.0	U	1.0	U
	Dec-99	1.0	U	1.0	U	1.0	U
	Dec-00	1.0	U	1.0	U	1.0	U
	Dec-01	1.0	U	1.0	U	1.0	U
	Jun-04	1.0	U	1.0	U	1.0	U
	Jun-09	1.0	U	**8.0**		**26**	
	Sep-09	**11**		**13.0**		**51**	

Deep Zone Monitoring Wells

		1,1,1-TCA		1,1-DCA		1,1-DCE	
	MCL:	200		NA		7.0	
No associated deep well							
P-5A	Feb-89	1.0	U	1.0	U	1.0	U
	Aug-92	1.0	U	1.0	U	1.0	U
	Nov-92	1.0	U	1.0	U	1.0	U
	Feb-93	1.0	U	1.0	U	1.0	U
	May-93	1.0	U	1.0	U	1.0	U
	May-94	1.0	U	1.0	U	1.0	U
	Jun-95	1.0	U	1.0	U	1.0	U
	Jul-96	1.0	U	1.0	U	1.0	U
	Oct-97	1.0	U	1.0	U	1.0	U
	Nov-98	1.0	U	1.0	U	1.0	U
	Dec-99	1.0	U	1.0	U	1.0	U
P-7A	Feb-89	1.0	U	-		**17**	
	Jul-91	**10**		**2.0**		**21**	
	Aug-92	-		-		-	
	Nov-92	**12**		**5.0**		**37**	
	Feb-93	**23**		**6.0**		**60**	
	May-93	**17**		**5.0**		**40**	
	Aug-93	**11**		1.0	U	**29**	
	Nov-93	**11**		**4.0**		**50**	
	Feb-94	**4.0**		**3.0**		**40**	
	May-94	1.0	U	**3.0**		**30**	
	Sep-94	1.0	U	1.0	U	**24**	
	Nov-94	1.0	U	1.0	U	**25**	
	Mar-95	**4.0**		1.0	U	**21**	
	Jun-95	**5.0**		**3.0**		**22**	
	Oct-95	**3.0**		1.0	U	**17**	
	Jan-96	**7.0**		**3.0**		**34**	
	Apr-96	**6.0**		**3.0**		**24**	
	Jul-96	**8.0**		**3.0**		**27**	
	Oct-96	**5.0**		**3.0**		**22**	
	Feb-97	**6.0**		1.0	U	**30**	
	Jun-97	**3.0**		**3.0**		**23**	
	Oct-97	**4.0**		1.0	U	**11**	
	Feb-98	1.0	U	1.0	U	**19**	
	Jun-98	1.0	U	1.0	U	**11**	
	Nov-98	1.0	U	1.0	U	**12**	
	May-99	1.0	U	1.0	U	**19**	
	Aug-99	1.0	U	1.0	U	**18**	
	Dec-99	1.0	U	1.0	U	**19**	
	Dec-00	1.0	U	1.0	U	**16**	
	Dec-01	1.0	U	1.0	U	**18**	
	Jun-04	**0.4**		**1.2**		**14**	
	Jun-09	1.0	U	1.0	U	**3**	J
	Sep-09	0.8	U	1.0	U	**3**	J

Table 3
Historical Groundwater Sample Results
GE Puerto Rico Investment
Patillas, Puerto Rico

		Shallow Zone Monitoring Wells						Deep Zone Monitoring Wells			
		1,1,1-TCA		1,1-DCA		1,1-DCE		1,1,1-TCA		1,1-DCA	1,1-DCE
	MCL:	200		NA		7.0		MCL: 200		NA	7.0
P-8	Feb-89	**9.0**		1.0	U	1.0	U	***No associated deep well***			
	Jul-91	1.0	U	1.0	U	1.0	U				
	Aug-92	1.0	U	1.0	U	1.0	U				
	Nov-92	1.0	U	1.0	U	1.0	U				
	Feb-93	1.0	U	1.0	U	1.0	U				
	May-93	1.0	U	1.0	U	1.0	U				
	May-94	1.0	U	1.0	U	1.0	U				
	Jun-95	1.0	U	1.0	U	1.0	U				
	Jul-96	1.0	U	1.0	U	1.0	U				
	Oct-97	1.0	U	1.0	U	1.0	U				
	Nov-98	**2410**		**128**		**1120**					
	May-99	**9.0**		1.0	U	**7.0**					
	Aug-99	1.0	U	1.0	U	1.0	U				
	Dec-99	**2040**		**198**		**2020**					
	Dec-00	1.0	U	1.0	U	1.0	U				
	Dec-01	1.0	U	1.0	U	1.0	U				
	Jun-04	**586**		**61**		**360**					
P-9	Feb-89	1.0	U	1.0	U	**22**		***No associated deep well***			
	Jul-91	1.0	U	**2.0**		**13**					
	Aug-92	1.0	U	1.0	U	**18**					
	Nov-92	1.0	U	**3.0**		**19**					
	Feb-93	1.0	U	1.0	U	**16**					
	May-93	1.0	U	1.0	U	**9**					
	Aug-93	1.0	U	1.0	U	**15**					
	Nov-93	**2.0**		**2.0**		**13**					
	Feb-94	1.0	U	1.0	U	**12**					
	May-94	1.0	U	1.0	U	**10**					
	Sep-94	1.0	U	1.0	U	**11**					
	Nov-94	1.0	U	1.0	U	**10**					
	Mar-95	1.0	U	1.0	U	**8.0**					
	Jun-95	1.0	U	1.0	U	**8.0**					
	Oct-95	1.0	U	1.0	U	**6.0**					
	Jan-96	1.0	U	1.0	U	**10**					
	Apr-96	1.0	U	1.0	U	**9.0**					
	Jul-96	1.0	U	1.0	U	**8.0**					
	Oct-96	1.0	U	1.0	U	**7.0**					
	Feb-97	1.0	U	1.0	U	**9.0**					
	Jun-97	1.0	U	1.0	U	**8.0**					
	Oct-97	1.0	U	1.0	U	**6.0**					
	Feb-98	1.0	U	1.0	U	1.0	U				
	Jun-98	1.0	U	1.0	U	**5.0**					
	Nov-98	1.0	U	1.0	U	**6.0**					
	May-99	1.0	U	1.0	U	**13**					
	Aug-99	1.0	U	1.0	U	**13**					
	Dec-99	1.0	U	1.0	U	**11**					
	Dec-00	1.0	U	1.0	U	**7.0**					
	Dec-01	1.0	U	1.0	U	1.0	U				
	Jun-04	1.0	U	**0.8**		**6.3**					
	Jun-09	1.0	U	1.0	U	**2.0**	J				

Table 3
Historical Groundwater Sample Results
GE Puerto Rico Investment
Patillas, Puerto Rico

Shallow Zone Monitoring Wells

		1,1,1-TCA		1,1-DCA		1,1-DCE	
	MCL:	**200**		**NA**		**7.0**	
P-10A							
No associated shallow well							
P-11	Feb-89	**911**		1.0	U	**62**	
	Jul-91	**1180**		**20**		**409**	
	Aug-92	**139**		**11**		**26**	
	Nov-92	**20**		1.0	U	1.0	U
	Feb-93	**80**		**8.0**		**19**	
	May-93	**115**		**6.0**		**25**	
	Aug-93	**148**		**17**		**29**	
	Nov-93	**736**		**49**		**103**	
	Feb-94	**520**		**21**		**204**	
	May-94	**649**		1.0	U	**259**	
	Sep-94	**665**		**25**		**271**	
	Nov-94	**390**		**37**		**176**	
	Mar-95	**394**		**13**		**118**	
	Jun-95	**875**		**46**		**295**	
	Oct-95	**420**		**44**		**172**	
	Jan-96	**878**		**83**		**392**	
	Apr-96	**185**		**8.0**		**62**	
	Jul-96	**712**		**49**		**160**	
	Oct-96	**9120**		**173**		**2260**	
	Feb-97	**5850**		**65**		**1630**	
	Jun-97	**1220**		**26**		**611**	
	Oct-97	**1050**		**50**		**431**	
	Feb-98	**118**		**5.0**		**53**	
	Jun-98	**113**		1.0	U	**47**	
	Nov-98	**10**		1.0	U	1.0	U
	May-99	**17**		1.0	U	1.0	U
	Aug-99	**27**		**5.0**		**6.0**	
	Dec-99	1.0	U	1.0	U	1.0	U
	Dec-00	1.0	U	1.0	U	1.0	U
	Dec-01	1.0	U	1.0	U	1.0	U
	Jun-04	1.0	U	**1.1**		1.0	U
	Jun-09	1.0	U	**1.0**	J	**2.0**	J

Deep Zone Monitoring Wells

		1,1,1-TCA		1,1-DCA		1,1-DCE
	MCL:	**200**		**NA**		**7.0**
P-10A	Feb-89	**26**		**13**		**851**
	Jul-91	1.0	U	**12**		**1740**
	Aug-92	**15**		**17**		**1310**
	Nov-92	**7.0**		**12**		**1310**
	Feb-93	1.0	U	1.0	U	**1320**
	May-93	1.0	U	1.0	U	**937**
	Aug-93	1.0	U	1.0	U	**1180**
	Nov-93	1.0	U	**17**		**1270**
	Feb-94	**9.0**		**18**		**1900**
	May-94	**7.0**		**16**		**1500**
	Sep-94	1.0	U	1.0	U	**1260**
	Nov-94	1.0	U	**13**		**1200**
	Mar-95	1.0	U	1.0	U	**960**
	Jun-95	1.0	U	**16**		**961**
	Oct-95	1.0	U	**17**		**1110**
	Jan-96	**4.0**		**13**		**1260**
	Apr-96	**3.0**		**10**		**770**
	Jul-96	**4.0**		**14**		**1100**
	Oct-96	**3.0**		**18**		**924**
	Feb-97	1.0	U	**11**		**707**
	Jun-97	1.0	U	**10**		**601**
	Oct-97	1.0	U	**12**		**800**
	Feb-98	1.0	U	**11**		**702**
	Jun-98	1.0	U	**11**		**667**
	Nov-98	1.0	U	**11**		**580**
	May-99	1.0	U	**17**		**857**
	Aug-99	1.0	U	**23**		**742**
	Dec-99	1.0	U	**23**		**1350**
	Dec-00	**6.0**		**18**		**992**
	Dec-01	**6.1**		**21**		**974**
	Jun-04	**1.3**		**23**		**1230**
	Jun-09	1.0	U	**21**		**770**
	Sep-09	0.8	U	**18**		**760**
No associated deep well						

Table 3
Historical Groundwater Sample Results
GE Puerto Rico Investment
Patillas, Puerto Rico

		Shallow Zone Monitoring Wells								Deep Zone Monitoring Wells							
		1,1,1-TCA		1,1-DCA		1,1-DCE					1,1,1-TCA		1,1-DCA		1,1-DCE		
	MCL:	200		NA		7.0				MCL:	200		NA		7.0		
P-12	Nov-89	**2.0**		1.0	U	**30**		***No associated deep well***									
	Jul-91	**3.0**		1.0	U	**25**											
	Aug-92	1.0	U	1.0	U	**8.0**											
	Nov-92	1.0	U	1.0	U	**5.0**											
	Feb-93	1.0	U	1.0	U	**5.0**											
	May-93	1.0	U	1.0	U	**20**											
	Aug-93	1.0	U	1.0	U	**17**											
	Nov-93	**3.0**		1.0	U	**27**											
	Feb-94	**2.0**		1.0	U	**30**											
	May-94	1.0	U	1.0	U	**20**											
	Sep-94	1.0	U	1.0	U	**18**											
	Nov-94	1.0	U	1.0	U	**6.0**											
	Mar-95	1.0	U	1.0	U	**12**											
	Jun-95	1.0	U	1.0	U	1.0	U										
	Oct-95	1.0	U	1.0	U	**4.0**											
	Jan-96	1.0	U	1.0	U	**6.0**											
	Apr-96	1.0	U	1.0	U	**5.0**											
	Jul-96	1.0	U	1.0	U	1.0	U										
P-13S	Jul-91	1.0	U	1.0	U	1.0	U	**P-13D**	Jul-91	1.0	U	1.0	U	1.0	U		
	Aug-92	1.0	U	1.0	U	1.0	U		Aug-92	1.0	U	1.0	U	1.0	U		
	Nov-92	1.0	U	1.0	U	1.0	U		Nov-92	1.0	U	1.0	U	1.0	U		
	Feb-93	1.0	U	1.0	U	1.0	U		Feb-93	1.0	U	1.0	U	1.0	U		
	May-93	1.0	U	1.0	U	1.0	U		May-93	1.0	U	1.0	U	1.0	U		
	May-94	1.0	U	1.0	U	1.0	U		May-94	1.0	U	1.0	U	1.0	U		
	Jun-95	1.0	U	1.0	U	1.0	U		Jun-95	1.0	U	1.0	U	1.0	U		
	Jul-96	1.0	U	1.0	U	1.0	U		Jul-96	1.0	U	1.0	U	1.0	U		
P-14S	Jul-91	1.0	U	1.0	U	1.0	U	**P-14D**	Jul-91	1.0	U	1.0	U	1.0	U		
	Aug-92	1.0	U	1.0	U	1.0	U		Aug-92	1.0	U	1.0	U	1.0	U		
	Nov-92	1.0	U	1.0	U	1.0	U		Nov-92	1.0	U	1.0	U	1.0	U		
	Feb-93	1.0	U	1.0	U	1.0	U		Feb-93	1.0	U	1.0	U	1.0	U		
	May-93	1.0	U	1.0	U	1.0	U		May-93	1.0	U	1.0	U	1.0	U		
	May-94	1.0	U	1.0	U	1.0	U		May-94	1.0	U	1.0	U	1.0	U		
	Jun-95	1.0	U	1.0	U	1.0	U		Jun-95	1.0	U	1.0	U	1.0	U		
	Jul-96	1.0	U	1.0	U	1.0	U		Jul-96	1.0	U	1.0	U	1.0	U		
P-15DD	***No associated shallow well***							**P-15DD**	Jun-04	**0.5**	J	**2.1**		**104**	
									Dec-05	0.8	U	**2.0**	J	**96**	
									May-06	0.8	U	**2.0**	J	**99**	
									Aug-06	0.8	U	**2.0**	J	**86**	
									Jun-09	0.8	U	**2.0**	J	**61**	
									Sep-09	0.8	U	**2.0**	J	**68**	
P-16S	Jun-04	**0.4**	J	**5.3**		**13**		***No associated deep well***									
	Dec-05	0.8	U	**4.0**	J	**17**											
	May-06	0.8	U	**3.0**	J	**11**											
	Aug-06	0.8	U	**2.0**	J	**9.0**											
	Jun-09	0.8	U	1.0	U	**4.0**	J										
	Sep-09	0.8	U	1.0	U	1.0	U										
P-17D	***No associated shallow well***							**P-17D**	Jun-04	1.0	U	**2.1**		**163**	
									Dec-05	0.8	U	**2.0**	J	**120**	
									May-06	0.8	U	**2.0**	J	**130**	
									Aug-06	0.8	U	**2.0**	J	**110**	
									Jun-09	0.8	U	**2.0**	J	**75**	
									Sep-09	0.8	U	**2.0**	J	**100**	
P-18S	Jun-04	**1.6**		**2.3**		**64**		**P-18D**	Jun-04	**1.2**		**2.1**		**65**	
	Dec-05	**1.0**	J	**1.0**	J	**26**			Dec-05	**1.0**	J	**1.0**	J	**38**	
	May-06	**1.0**	J	**2.0**	J	**39**			May-06	0.8	U	**2.0**	J	**53**	
	Aug-06	**0.9**	J	1.0	U	**20**			Aug-06	**1.0**	J	**2.0**	J	**53**	
	Jun-09	**0.8**	J	**1.0**		**17**			Jun-09	0.8	U	**1.0**	J	**31**	
	Sep-09	**1.0**	J	**1.0**	J	**20**			Sep-09	**0.8**	J	**1.0**		**37**	

Table 3
Historical Groundwater Sample Results
GE Puerto Rico Investment
Patillas, Puerto Rico

		Shallow Zone Monitoring Wells								Deep Zone Monitoring Wells							
		1,1,1-TCA		1,1-DCA		1,1-DCE					1,1,1-TCA		1,1-DCA		1,1-DCE		
	MCL:	200		NA		7.0				MCL:	200		NA		7.0		
P-19S	Jun-04	**0.4**	J	**0.3**	J	**5.4**			**P-19D**	Jun-04	**1.1**		**0.7**	J	**15**		
	Dec-05	0.8	U	1.0	U	**2.0**	J			Dec-05	0.8	U	1.0	U	**5.0**		
	May-06	0.8	U	1.0	U	**1.0**	J			May-06	0.8	U	1.0	U	**7.0**		
	Aug-06	0.8	U	1.0	U	0.8	U			Aug-06	**1.0**	J	1.0	U	**8.0**		
	Jun-09	0.8	U	1.0	U	0.8	U			Jun-09	0.8	U	1.0	U	**2.0**	J	
	Sep-09	0.8	U	1.0	U	**2.0**	J			Sep-09	0.8	U	1.0	U	**4.0**	J	
P-20S	May-06	0.8	U	1.0	U	0.8	U		**P-20D**	May-06	0.8	U	**1.0**	J	**37**		
	Aug-06	0.8	U	1.0	U	0.8	U			Aug-06	0.8	U	**1.0**	J	**44**		
	Jun-09	0.8	U	1.0	U	0.8	U			Jun-09	0.8	U	1.0	U	**24**		
	Sep-09	0.8	U	1.0	U	**7.0**				Sep-09	0.8	U	1.0	U	**28**		

Concentrations are reported in micrograms per liter (ug/L).

MCL - Maximum contaminant level
NA - Not available
1,1,1-TCA - 1,1,1-Trichoroethane
1,1-DCA - 1,1-Dichloroethane
1,1-DCE - 1,1-Dichloroethene
U - Non-Detect. The analyte was not detected above the indicated reporting limit.
J - Estimated. The analyte was detected below the reporting limit.
Results that exceed MCLs are boxed.

APPENDIX A

GROUNDWATER SAMPLING LOGS

GROUNDWATER SAMPLING LOG

Client	GE	**Well Number**	P-7	**Sampler**	~~DTM~~ ONC
Site	Patillas	**Total Well Depth**	19.67	**Samples Collected:** VOCs	
Job Number	1006833.010103	**Pump Intake Depth (ft)**	18.0		

Static Water Level (ft)	8.10
Pumping Water Level (ft)	8.25
Standing Water Column (ft)	11.57
Purge & Sampling Methods	QED Bladder Pump

BLADDER PUMP SETTINGS	
Refill	10
Discharge	5
Pressure	25

Time Purge Started	01:41 P
Sampling Date	9.29.09
Sample Time	2:46 PM
Total Volume Purged (gal)	5.8 gal

All measurements taken from: Top of Casing ☒ Protective Casing ☐ Ground Level ☐

Time	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water (ft)	Flow Rate (m/min)	Comments
	±0.1	±3%	±10%	±10 %	±3%	±10mV	<0.2'	75ml<rate<400ml	
1:46P	6.53	0.462	21.3	2.53	32.48	89	8.25	400	
1:51P	6.48	0.463	17.0	3.00	32.45	88	8.25	400	
1:56	6.48	0.467	19.3	3.04	32.44	89	8.25	400	
2:01	6.44	0.230	11.8	3.06	32.43	91	8.25	400	
2:06	6.45	0.470	11.5	2.55	32.42	96	8.25	400	
2:11	6.45	0.471	10.0	2.40	32.40	99	8.25	400	
2:16	6.45	0.473	8.7	2.43	32.41	102	8.25	400	
2:21	6.44	0.473	6.9	2.51	32.41	106	8.25	400	
2:26	6.43	0.473	7.1	2.55	32.41	107	8.25	400	
2:31	6.43	0.472	7.2	2.02	32.39	111	8.25	400	
2:36	6.43	0.471	7.2	2.00	32.41	112	8.25	400	
2:41	6.43	0.471	7.1	2.01	32.39	113	8.25	400	Dup

GROUNDWATER SAMPLING LOG

Client	GE	**Well Number**	P-7 A	**Sampler**	~~DTM~~ ONC
Site	Patillas	**Total Well Depth**	53.30	**Samples Collected:** VOCs	
Job Number	1006833.010103	**Pump Intake Depth (ft)**	52.00		

Static Water Level (ft)	12.20
Pumping Water Level (ft)	12.60
Standing Water Column (ft)	41.10
Purge & Sampling Methods	QED Bladder Pump

BLADDER PUMP SETTINGS	
Refill	10
Discharge	5
Pressure	30

Time Purge Started	3:14 P
Sampling Date	9·29.09
Sample Time	3:56 PM
Total Volume Purged (gal)	± 4.0 gal

All measurements taken from: Top of Casing ☐ Protective Casing ☐ Ground Level ☐

Time	pH ±0.1	Cond. (mS/cm) ±3%	Turbidity (NTU) ±10%	DO (mg/L) ±10 %	Temp (°C) ±3%	ORP (mV) ±10mV	Depth to Water (ft) <0.2'	Flow Rate (ml/min) 75ml<rate<400ml	Comments
3:19P	6.99	0.435	20.5	1.14	29.26	46	12.60	250	
3:24	6.79	0.432	13.5	0.66	29.15	72	12.60	250	
3:29	6.70	0.431	10.2	0.42	29.05	84	12.60	250	
3:34	6.69	0.432	9.7	0.28	29.13	90	12.60	250	
3:39	6.70	0.431	9.3	0.19	28.92	93	12.60	250	
3:44	6.69	0.431	9.3	0.15	29.00	96	12.60	250	
3:49	6.69	0.432	9.1	0.13	29.01	97	12.60	250	
3:54	6.69	0.433	9.1	0.12	29.01	98	12.60	250	±4.0gal

GROUNDWATER SAMPLING LOG

Client	GE	**Well Number**	P-10A	**Sampler**	~~DTM~~ ONC
Site	Patillas	**Total Well Depth**	50.83	**Samples Collected:** VOCs	
Job Number	1006833.010103	**Pump Intake Depth (ft)**	49.00		

Static Water Level (ft)	17.10
Pumping Water Level (ft)	17.60
Standing Water Column (ft)	33.73
Purge & Sampling Methods	QED Bladder Pump

BLADDER PUMP SETTINGS	
Refill	10
Discharge	5
Pressure	25

Time Purge Started	4:18P
Sampling Date	9.29.09
Sample Time	5:10P
Total Volume Purged (gal)	4.5 gal

All measurements taken from: Top of Casing ☒ Protective Casing ☐ Ground Level ☐

Time	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water ( )	Flow Rate (ml/min)	Comments
	±0.1	±3%	±10%	±10 %	±3%	±10mV	<0.2'	75ml<rate<400ml	
4:23P	10.32	0.414	20.7	5.30	29.66	-2	17.6	250	
4:28P	8.40	0.533	14.4	3.10	29.50	3.5	17.6	250	
4:33P	7.71	0.542	7.9	2.30	29.40	59	17.6	250	
4:38	7.41	0.545	7.7	2.30	29.33	71	17.6	250	
4:43	7.40	0.542	8.0	2.30	29.40	72	17.6	250	
4:48	7.19	0.542	11.3	1.68	29.30	82	17.6	250	
4:53	7.15	0.542	11.8	1.68	29.27	83	17.6	250	
4:58	7.12	0.541	13.4	1.37	29.24	84	17.6	250	
5:03	7.10	0.541	13.5	1.34	29.22	85	17.6	250	
5:08	7.10	0.540	13.4	1.34	29.22	86	17.6	250	

GROUNDWATER SAMPLING LOG

Client	GE	**Well Number**	P-15DD	**Sampler**	~~DTM~~ ONC
Site	Patillas	**Total Well Depth**	75.79	**Samples Collected:** VOCs	
Job Number	1006833.010103	**Pump Intake Depth (ft)**	74.00		

Static Water Level (ft) 15.90
Pumping Water Level (ft) 15.92
Standing Water Column (ft) 59.89
Purge & Sampling Methods QED Bladder Pump

BLADDER PUMP SETTINGS	
Refill	10
Discharge	5
Pressure	45

Time Purge Started 5:29P
Sampling Date 9.29.09
Sample Time 6:16P
Total Volume Purged (gal) 3.5 gal

All measurements taken from: Top of Casing ☑ Protective Casing ☐ Ground Level ☐

Time	pH ±0.1	Cond. (mS/cm) ±3%	Turbidity (NTU) ±10%	DO (mg/L) ±10 %	Temp (°C) ±3%	ORP (mV) ±10mV	Depth to Water ~~(ft)~~ <0.2'	Flow Rate (ml/min) 75ml<rate<400ml	Comments
5:34P	7.85	0.522	14.8	4.81	30.30	92	15.92	300	
5:39	7.17	0.527	26.1	2.99	30.00	99	15.92	300	
5:44	7.11	0.533	19.9	2.60	30.01	100	15.92	300	
5:49	7.05	0.538	12.8	2.53	29.85	102	15.92	300	
5:54	7.06	0.539	10.7	2.50	29.79	102	15.92	300	
5:59	7.04	0.538	10.9	1.89	29.77	102	15.92	300	
6:04	7.03	0.538	8.8	2.05	29.75	102	15.92	300	
6:09	7.02	0.537	8.6	2.06	29.74	103	15.92	300	
6:14	7.01	0.536	8.6	2.06	29.73	103	15.92	300	3.5 gal

GROUNDWATER SAMPLING LOG

Client	GE	**Well Number**	P-16S	**Sampler**	~~DTM~~ ONC
Site	Patillas	**Total Well Depth**	28.04	**Samples Collected:** VOCs	
Job Number	1006833.010103	**Pump Intake Depth (ft)**	27.00		

Static Water Level (ft)	17.30
Pumping Water Level (ft)	17.80
Standing Water Column (ft)	10.74
Purge & Sampling Methods	QED Bladder Pump

BLADDER PUMP SETTINGS	
Refill	10
Discharge	5
Pressure	25

Time Purge Started	8:19A
Sampling Date	9.30.09
Sample Time	9:20A
Total Volume Purged (gal)	4.5 gal

All measurements taken from: Top of Casing ☒ Protective Casing ☐ Ground Level ☐

	±0.1	±3%	±10%	±10 %	±3%	±10mV	<0.2'	75ml<rate<400ml
Time	pH	Cond. (~~mS~~/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water (~~ft~~)	Flow Rate mL/min	Comments
8:24A	6.83	0.634	185	3.15	28.91	31	17.80	300	
8:29	6.81	0.638	114	3.20	28.87	-34	17.80	300	
8:34	6.74	0.665	43.0	2.79	28.89	-73	17.80	300	
8:39	6.72	0.674	21.0	2.39	28.86	-78	17.80	300	
8:44	6.71	0.670	18.0	2.14	28.89	-74	17.80	300	
8:49	6.69	0.667	16.4	3.18	28.85	-71	17.80	300	
8:54	6.68	0.666	13.9	2.14	28.86	-68	17.80	300	
8:59	6.66	0.658	12.9	2.26	28.80	-68	17.80	300	
9:04	6.66	0.657	12.9	2.20	28.81	-68	17.80	300	
9:09	6.65	0.653	12.8	2.20	28.80	-66	17.80	300	
9:14	6.66	0.652	12.8	2.19	28.79	-65	17.80	300	
9:19	6.65	0.650	12.7	2.19	28.79	-65	17.80	300	

GROUNDWATER SAMPLING LOG

Client	GE	**Well Number**	P-17D	**Sampler**	~~DTM~~ ONC
Site	Patillas	**Total Well Depth**	63.74	**Samples Collected:** VOCs	
Job Number	1006833.010103	**Pump Intake Depth (ft)**	62.00		

Static Water Level (ft)	11.20
Pumping Water Level (ft)	11.30
Standing Water Column (ft)	52.54
Purge & Sampling Methods	QED Bladder Pump

BLADDER PUMP SETTINGS	
Refill	10
Discharge	5
Pressure	45

Time Purge Started	10:24 A
Sampling Date	9.30.09
Sample Time	11:26 A
Total Volume Purged (gal)	5 gal

All measurements taken from: Top of Casing ☑ Protective Casing ☐ Ground Level ☐

Time	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water (ft)	Flow Rate (mL/min)	Comments
	±0.1	±3%	±10%	±10 %	±3%	±10mV	<0.2'	75ml<rate<400ml	
10:29A	7.73	0.596	116	2.81	27.97	10	11.30	300	
10:34	7.46	0.594	69.6	1.53	27.96	14	11.30	300	
10:39	7.40	0.594	57.6	1.05	27.97	17	11.30	300	
10:44	7.32	0.592	43.4	1.04	28.03	21	11.30	300	
10:49	7.30	0.591	32.9	0.37	28.03	23	11.30	300	
10:54	7.30	0.591	26.8	0.36	28.05	25	11.30	300	
10:59	7.28	0.591	26.7	0.29	28.05	26	11.30	300	
11:04	7.27	0.591	25.3	0.27	28.04	29	11.30	300	
11:09	7.26	0.589	23.8	0.21	28.08	30	11.30	300	
11:14	7.26	0.588	22.5	0.25	28.07	31	11.30	300	
11:19	7.26	0.588	22.1	0.24	28.07	32	11.30	300	
11:24	7.25	0.587	21.9	0.23	28.07	33	11.30	300	

GROUNDWATER SAMPLING LOG

Client	GE	**Well Number**	P-18D	**Sampler**	~~DTM~~ ONC
Site	Patillas	**Total Well Depth**	48.05	**Samples Collected: VOCs**	
Job Number	1006833.010103	**Pump Intake Depth (ft)**	47.00		

Static Water Level (ft)	13.0
Pumping Water Level (ft)	13.3
Standing Water Column (ft)	35.05
Purge & Sampling Methods	QED Bladder Pump

BLADDER PUMP SETTINGS	
Refill	10
Discharge	5
Pressure	25

Time Purge Started	1:51 P
Sampling Date	9.30.09
Sample Time	2:28 P
Total Volume Purged (gal)	3 gal.

All measurements taken from: Top of Casing ☑ Protective Casing ☐ Ground Level ☐

Time	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water ( )	Flow Rate (mL/min)	Comments
	±0.1	±3%	±10%	±10 %	±3%	±10mV	<0.2'	75ml<rate<400ml	
1:56 P	6.95	0.478	3.9	1.80	28.44	23	13.3	300	
2:01	6.81	0.478	2.5	1.45	28.35	33	13.3	300	
2:06	6.77	0.477	2.9	1.23	28.45	39	13.3	300	
2:11	6.75	0.477	2.8	0.85	28.44	41	13.3	300	
2:16	6.73	0.476	2.9	0.84	28.49	46	13.3	300	
2:21	6.74	0.477	2.9	0.84	28.48	47	13.3	300	
2:26	6.73	0.477	3.0	0.85	28.48	48	13.3	300	

GROUNDWATER SAMPLING LOG

Client	GE	**Well Number**	P-19S	**Sampler**	~~DFM~~ EOV
Site	Patillas	**Total Well Depth**	18.10	**Samples Collected: VOCs**	
Job Number	1006833.010103	**Pump Intake Depth (ft)**	17.10		

Static Water Level (ft)	10.6
Pumping Water Level (ft)	10.7
Standing Water Column (ft)	7.5
Purge & Sampling Methods	QED Bladder Pump

BLADDER PUMP SETTINGS	
Refill	10
Discharge	5
Pressure	20

Time Purge Started	8:05 A
X-1-09 **Sampling Date**	10-1-09
Sample Time	8:50 A
Total Volume Purged (gal)	4 gal

All measurements taken from: Top of Casing ☒ Protective Casing ☐ Ground Level ☐

Time	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water (ft)	Flow Rate (mL/min)	Comments
	±0.1	±3%	±10%	±10 %	±3%	±10mV	<0.2'	75ml<rate<400ml	
8:05 A	6.80	0.390	135	3.05	28.32	104	10.7	300	
8:10	6.74	0.390	93.6	2.55	28.33	109	10.7	300	
8:15	6.69	0.391	56.6	2.56	28.33	111	10.7	300	
8:20	6.66	0.390	35.6	2.60	28.34	114	10.7	300	
8:25	6.65	0.392	33.3	2.54	28.35	116	10.7	300	
8:30	6.64	0.391	27.3	2.60	28.35	117	10.7	300	
8:35	6.63	0.391	27.4	2.64	28.34	119	10.7	300	
8:40	6.62	0.391	27.5	2.09	28.34	120	10.7	300	
8:45	6.62	0.391	27.4	2.10	28.35	121	10.7	300	
8:50	6.62	0.391	27.3	2.10	28.35	121	10.7	300	

GROUNDWATER SAMPLING LOG

Client	GE	**Well Number**	P-19D	**Sampler**	~~DTM~~ EOV
Site	Patillas	**Total Well Depth**	38.23	**Samples Collected: VOCs**	
Job Number	1006833.010103	**Pump Intake Depth (ft)**	37.23		

Static Water Level (ft)	11.5
Pumping Water Level (ft)	11.5
Standing Water Column (ft)	26.73
Purge & Sampling Methods	QED Bladder Pump

BLADDER PUMP SETTINGS	
Refill	10
Discharge	5
Pressure	25

Time Purge Started	09:35A
Sampling Date	8·1·09
Sample Time	10:12A
Total Volume Purged (gal)	3.5 gal

All measurements taken from: Top of Casing ☒ Protective Casing ☐ Ground Level ☐

Time	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water (~~ft~~)	Flow Rate (mL/min)	Comments
	±0.1	±3%	±10%	±10 %	±3%	±10mV	<0.2'	75ml<rate<400ml	
9:40A	6.90	0.430	44.0	2.44	28.63	103	11.5	325	
9:45	6.89	0.430	29.6	1.91	28.63	107	11.5	325	
9:50	6.87	0.430	15.5	1.46	28.63	113	11.5	325	
9:55	6.76	0.428	13.5	1.31	28.64	117	11.5	325	
10:00	6.82	0.428	12.2	1.30	28.65	117	11.5	325	
10:05	6.80	0.428	12.1	1.30	28.64	118	11.5	325	
10:10	6.80	0.428	12.0	1.30	28.64	118	11.5	325	

GROUNDWATER SAMPLING LOG

Client	GE	**Well Number**	P-20S	**Sampler**	~~DTM~~ EOV
Site	Patillas	**Total Well Depth**	24.83	**Samples Collected:** VOCs	
Job Number	1006833.010103	**Pump Intake Depth (ft)**	23.83		

Static Water Level (ft)	12.8
Pumping Water Level (ft)	12.8
Standing Water Column (ft)	12.03
Purge & Sampling Methods	QED Bladder Pump

BLADDER PUMP SETTINGS	
Refill	10
Discharge	5
Pressure	20

Time Purge Started	11:15A
Sampling Date	X·1·09
Sample Time	12:08P
Total Volume Purged (gal)	4 gal

All measurements taken from: Top of Casing ☑ Protective Casing ☐ Ground Level ☐

Time	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water (ft)	Flow Rate mL/min	Comments
	±0.1	±3%	±10%	±10 %	±3%	±10mV	<0.2'	75ml<rate<400ml	
11:20A	7.26	0.374	9.1	3.92	27.37	84	12.8	300	
11:25	7.21	0.374	7.8	3.93	27.33	89	12.8	300	
11:30	6.95	0.374	6.3	3.49	27.30	90	12.8	300	
11:35	6.91	0.374	6.2	3.47	27.30	98	12.8	300	
11:40	6.95	0.372	5.9	4.41	27.33	100	12.8	300	
11:45	6.94	0.374	8.1	0.54	27.34	102	12.8	300	
11:50	6.94	0.374	7.5	0.54	27.36	102	12.8	300	
11:55	6.92	0.374	7.6	0.53	27.36	102	12.8	300	
12:00	6.91	0.373	7.7	0.53	27.38	102	12.8	300	
12:05	6.91	0.373	7.7	0.52	27.38	102	12.8	300	

GROUNDWATER SAMPLING LOG

Client	GE	**Well Number**	P-20-D	**Sampler**	~~DTM~~ EOV
Site	Patillas	**Total Well Depth**	52.98	**Samples Collected: VOCs**	
Job Number	1006833.010103	**Pump Intake Depth (ft)**	51.00		

Static Water Level (ft)	12.6
Pumping Water Level (ft)	12.6
Standing Water Column (ft)	40.38
Purge & Sampling Methods	QED Bladder Pump

BLADDER PUMP SETTINGS	
Refill	10
Discharge	5
Pressure	38

Time Purge Started	12:35P
Sampling Date	X·1·09
Sample Time	1:33 PM
Total Volume Purged (gal)	4 gal

All measurements taken from: Top of Casing ~~☑~~ ☐ Protective Casing ☐ Ground Level ☐

Time	pH	Cond. (~~mS~~/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water (~~ft~~)	Flow Rate (mL/min)	Comments
	±0.1	±3%	±10%	±10 %	±3%	±10mV	<0.2'	75ml<rate<400ml	
12:40P	7.00	0.465	114	5.99	27.77	130	12.6	250	
12:45	7.02	0.466	90.4	5.95	27.75	133	12.6	250	
12:50	7.03	0.469	62.2	4.14	27.69	127	12.6	250	
12:55	7.04	0.470	51.2	3.63	27.65	127	12.6	250	
1:00P	7.03	0.472	41.0	3.14	27.45	127	12.6	250	
1:05	6.99	0.475	30.9	2.56	27.35	127	12.6	250	
1:10	7.03	0.476	24.1	2.15	27.40	126	12.6	250	
1:15	7.02	0.477	23.2	2.10	27.43	126	12.6	250	
1:20	7.01	0.480	18.3	1.44	27.43	125	12.6	250	
1:25	7.01	0.480	17.3	1.44	27.43	124	12.6	250	
1:30	7.01	0.481	17.3	1.42	27.43	124	12.6	250	

APPENDIX B

LABORATORY ANALYTICAL DATA

Daliz Estades Santaliz

Licensed Chemist

To Whom It May Concern:

I, Daliz M. Estades Santaliz, in my capacity as Puerto Rico Certified Chemist, hereby certify the attached Analytical Results from Project Name GE Palmer, Puerto Rico, and Laboratory ID Numbers:

5796196	5796206
5796197	5796207
5796198	5796208
5796199	5796209
5796200	5796210
5796201	5796211
5796202	5796212
5796203	5796213
5796204	5796214
5796205	

Lcda. Daliz M. Estades Santaliz

PO Box 727
Dorado, PR 00646-0727

Lancaster Laboratories
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Type I Data Package
for
MWH Americas, Inc.

SDG# PTL03

Project: GE Patillas Puerto Rico
Water Samples
Collected on 09/29/09-10/01/09

GROUP	SAMPLE NUMBERS
1164779	5796196-5796214

PA Cert. # 36-00037
NY Cert. # 10670
NJ Cert. # PA011
NC Cert. # 521
TX Cert. # T104704194-08A-TX

Prepared by _____

Reviewed by _____

Date 10/29/09

Lancaster Laboratories
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Sample Reference List for SDG Number PTL03 with a Data Package Type of I

12136 - MWH Americas, Inc.

Project: GE Patillas Puerto Rico

Lab Sample Number	Lab Sample Code	Client Sample Description
5796196	PATEB	EB-01 Grab Water 219131
5796197	PATP7	P-7 Grab Water 219131
5796198	PAP7A	P-7A Grab Water 219131
5796199	PA10A	P-10A Grab Water 219131
5796200	PA15D	P-15DD Grab Water 219131
5796201	PATD1	DUP-01 Grab Water 219131
5796202	PA16S	P-16S Grab Water 219131
5796203	PA17D	P-17D Grab Water 219131
5796204	PA18S	P-18S Grab Water 219131
5796205	PA18D	P-18D Grab Water 219131
5796206	PAEB2	EB-02 Grab Water 219134
5796207	PAFD2	DUP-02 Grab Water 219134
5796208	PA19S	P-19S Grab Water 219134
5796209	PA19D	P-19D Grab Water 219134
5796210	PA19D	P-19D Matrix Spike Grab Water 219134
5796211	PA19D	P-19D Matrix Spike Dup Grab Water 219134
5796212	PA20S	P-20S Grab Water 219134
5796213	PA20D	P-20D Grab Water 219134
5796214	PATB1	TB-01 Water 219134

Analysis Request/ Environmental Services Chain of Custody

Lancaster Laboratories

For Lancaster Laboratories use only
Acct. # 121360 Group# 1110779 Sample # 5796196-14

COC # 219131

Please print. Instructions on reverse side correspond with circled numbers.

(1) Client: NWH Americas, Inc. Acct. #:
Project Name/#: GE Patillas, P.R. PWSID #:
Project Manager: Bradly R. Toth P.O.#:
Sampler: Omar Negrón Quote #:
Name of state where samples were collected: Puerto Rico

(5) Analyses Requested — Preservation Codes

For Lab Use Only
FSC:
SCR#: 81246

Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

(6)

(2) Sample Description	Date	Time	(3) Matrix	(4) # of containers	Appendix 9 by 8260	Remarks
EB-01	9.29.09	10:00A	X	3	X	
P-7	9.29.09	2:46P	X	3	X	
P-7A	9.29.09	3:56P	X	3	X	
P-10A	9.29.09	5:10P	X	3	X	
P-15DD	9.29.09	6:16P	X	3	X	
Dup-01	9.30.09	7:30A	X	3	X	
P-16S	9.30.09	9:20A	X	3	X	
P-17D	9.30.09	11:26A	X	3	X	
P-18S	9.30.09	1:35P	X	3	X	
P-18D	9.30.09	2:28P	X	3	X	

(7) **Turnaround Time Requested** (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: 248-522-8310 Fax #: 248-522-8344
E-mail address: Bradly.r.Toth@mwhglobal.com

(8) **Data Package Options** (please circle if required)
Type I (validation/NJ Reg)
Type II (Tier II)
Type III (Reduced NJ)
Type IV (CLP SOW)
Type VI (Raw Data Only)
TX TRRP-13
MA MCP CT RCP
SDG Complete? Yes No
Site-specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal COC Required? Yes / No

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	9-22-09	1100			
Omar Negrón	10/2/09	8:10A			
			[signature]	10/3/09	10:00

Lancaster Laboratories, Inc., 2425 New Holland Pike, Lancaster, PA 17601 (717) 656-2300 Fax: (717) 656-6766
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

2102.03

Analysis Request/ Environmental Services Chain of Custody

Lancaster Laboratories

For Lancaster Laboratories use only

Acct. # 121360 Group# 1164779 Sample # 5796196O-14

COC # 219134

Please print. Instructions on reverse side correspond with circled numbers.

(1) Client: MWH Americas, Inc. Acct. #:

Project Name/#: GE Patillas, P.R. PWSID #:

Project Manager: Bradly R. Toth P.O.#:

Sampler: Omar Negrón Quote #:

Name of state where samples were collected: Puerto Rico

(5) Analyses Requested

(2) Sample Identification	Date Collected	Time Collected	(3) # of containers	(4) Matrix	Preservation Codes: Appendix 9 by 8260 H
EB-02	9.30.09	7:30A	X	X	3 X
Dup-02	10.1.09	7:00A	X	X	3 X
P-19S	10.1.09	8:57A	X	X	3 X
MS/MSD	10.1.09	10:15A	X	X	3 X
P-19D	10.1.09	10:12A	X	X	3 X
P-20S	10.1.09	12:08P	X	X	3 X
P-20D	10.1.09	1:35P	X	X	3 X
TB-01	—	—	—	X	3 X

(6) **Preservation Codes**
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Remarks

For Lab Use Only
FSC:
SCR#:

(7) **Turnaround Time Requested** (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: 248-522-8310 Fax #: 248-522-8344
E-mail address: Bradly.r.Toth@mwhglobal.com

(8) **Data Package Options** (please circle if required)
Type I (validation/NJ Reg)
Type II (Tier II)
Type III (Reduced NJ)
Type IV (CLP SOW)
Type VI (Raw Data Only)
TX TRRP-13
MA MCP CT RCP
SDG Complete? Yes No
Site-specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal COC Required? Yes / No

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
Omar Negrón	10.2.09	8:00A			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: Katie Hartlove	10/3/09	10:00

Lancaster Laboratories, Inc., 2425 New Holland Pike, Lancaster, PA 17601 (717) 656-2300 Fax: (717) 656-6766
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

2102.03

Lancaster Laboratories
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Environmental Sample Administration
Receipt Documentation Log

Client/Project: MWH Americas

Date of Receipt: 10/3/09

Time of Receipt: 10:00

Source Code: 501

Unpacker Emp. No.: 214

Shipping Container Sealed: (YES) NO

Custody Seal Present * : (YES) NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: (Chilled) Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	01298165	1.2	TB	WI	Y	B	
2							
3							
4							
5							
6							

Number of Trip Blanks *received* NOT listed on chain of custody: _____

Paperwork Discrepancy/Unpacking Problems:

Sample Administration Internal Chain of Custody			
Name	Date	Time	Reason for Transfer
Katie Hawthorne	10/3/09	15:45	Unpacking / Storage
Mary Beth Reed	10/5/09	1103	Place in Storage or Entry
			Entry
			Entry

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01163 GC/MS VOA Water Prep

An undiluted aliquot of the water sample or a dilution of the sample is purged with an inert gas and the volatiles are collected on an adsorbent trap that is subsequently desorbed onto a gas chromatographic column.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 5030B, December 1996.

00310 8260B water special scan
06886 Appendix IX by 8260 - water

The water sample is purged and the volatile compounds are collected on a sorbent trap that is subsequently desorbed onto the GC/MS system for chromatographic and mass spectral analysis.

Reference: Test Methods for Evaluating Solid Wastes, SW-846 Method 8260B, December 1996

Lancaster Laboratories

ANALYTICAL RESULTS

Prepared for:

MWH Americas, Inc.
P.O. Box 6610
Broomfield CO 80021
303-385-5500

Prepared by:
Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425
October 14, 2009

SAMPLE GROUP

The sample group for this submittal is 1164779. Samples arrived at the laboratory on Saturday, Oct 3 2009.
The project for this group is GE Patillas Puerto Rico.
The PO# for this sample group is 1006833.010101.

Sample No.	Collected	Client Description
5796196	9/29/2009 10:00	EB-01 Grab Water 219131 GE Patillas Puerto Rico EB-01
5796197	9/29/2009 14:46	P-7 Grab Water 219131 GE Patillas Puerto Rico P-7
5796198	9/29/2009 15:56	P-7A Grab Water 219131 GE Patillas Puerto Rico P-7A
5796199	9/29/2009 17:10	P-10A Grab Water 219131 GE Patillas Puerto Rico P-10A
5796200	9/29/2009 18:16	P-15DD Grab Water 219131 GE Patillas Puerto Rico P-15DD
5796201	9/30/2009 7:30	DUP-01 Grab Water 219131 GE Patillas Puerto Rico DUP-01
5796202	9/30/2009 9:20	P-16S Grab Water 219131 GE Patillas Puerto Rico P-16S
5796203	9/30/2009 11:26	P-17D Grab Water 219131 GE Patillas Puerto Rico P-17D
5796204	9/30/2009 13:35	P-18S Grab Water 219131 GE Patillas Puerto Rico P-18S

PTL[illegible] 0006

Lancaster Laboratories

ANALYTICAL RESULTS

Prepared for:

MWH Americas, Inc.
P.O. Box 6610
Broomfield CO 80021
303-385-5500

Prepared by:
Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425
October 14, 2009

5796205	9/30/2009 14:28	P-18D Grab Water 219131 GE Patillas Puerto Rico P-18D
5796206	9/30/2009 7:30	EB-02 Grab Water 219134 GE Patillas Puerto Rico EB-02
5796207	10/1/2009 7:00	DUP-02 Grab Water 219134 GE Patillas Puerto Rico DUP-02
5796208	10/1/2009 8:57	P-19S Grab Water 219134 GE Patillas Puerto Rico P-19S
5796209	10/1/2009 10:12	P-19D Grab Water 219134 GE Patillas Puerto Rico P-19D
5796210	10/1/2009 10:15	P-19D Matrix Spike Grab Water 219134 GE Patillas Puerto Rico P-19D
5796211	10/1/2009 10:15	P-19D Matrix Spike Dup Grab Water 219134 GE Patillas Puerto Rico P-19D
5796212	10/1/2009 12:08	P-20S Grab Water 219134 GE Patillas Puerto Rico P-20S
5796213	10/1/2009 13:35	P-20D Grab Water 219134 GE Patillas Puerto Rico P-20D
5796214	9/29/2009	TB-01 Water 219134 GE Patillas Puerto Rico TB-01

METHODOLOGY

The specified methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

PTL03 9887

Lancaster Laboratories

ANALYTICAL RESULTS

Prepared for:

MWH Americas, Inc.
P.O. Box 6610
Broomfield CO 80021
303-385-5500

Prepared by:
Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425
October 14, 2009

ELECTRONIC COPY TO MWH Americas, Inc. Attn: Bradly Toth
1 COPY TO Data Package Group

Questions? Contact your Client Services Representative
Natalie R Luciano at (717)656-2300

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

PTL83 2008

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm		
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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MWH Americas, Inc.
Project: GE Patillas Puerto Rico
SDG: PTL03

Report Date: 10/14/2009 19:11
Submit Date: 10/3/2009 10:00

Analysis Name	Units	5796196 EB-01 Gr Result	MDL	5796197 P-7 Grab Result	MDL	5796198 P-7A Gra Result	MDL
Acetone	ug/l	N.D.	6	N.D.	6	N.D.	6
Benzene	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromodichloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromoform	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Butanone	ug/l	N.D.	3	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1	N.D.	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Chloroform	ug/l	1 J	0.8	N.D.	0.8	N.D.	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Dibromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	N.D.	1	13	1	N.D.	1
1,2-Dichloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	N.D.	0.8	51	0.8	3 J	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5

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4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3	N.D.	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2	N.D.	2
Naphthalene	ug/l	N.D.	1	N.D.	1	N.D.	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Styrene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Toluene	ug/l	N.D.	0.7	N.D.	0.7	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	11	0.8	N.D.	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1	N.D.	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8

Analysis Name	Units	5796199 P-10A Gr Result	MDL	5796200 P-15DD G Result	MDL	5796201 DUP-01 G Result	MDL
Acetone	ug/l	N.D.	6	N.D.	6	N.D.	6
Benzene	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromodichloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromoform	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Butanone	ug/l	N.D.	3	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1	N.D.	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Chloroform	ug/l	1 J	0.8	N.D.	0.8	N.D.	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1	N.D.	1

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Analysis Name	Units	5796202 P-16S Gr Result	MDL	5796203 P-17D Gr Result	MDL	5796204 P-18S Gr Result	MDL
Dibromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	18	1	2 J	1	N.D.	1
1,2-Dichloroethane	ug/l	2 J	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	760	8	68	0.8	N.D.	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3	N.D.	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2	N.D.	2
Naphthalene	ug/l	N.D.	1	N.D.	1	N.D.	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Styrene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Toluene	ug/l	N.D.	0.7	N.D.	0.7	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	3 J	2	N.D.	2	N.D.	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1	N.D.	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8

PTL03 0812

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Project: GE Patillas Puerto Rico
SDG: PTL03

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Acetone	ug/l	N.D.	6	N.D.	6	N.D.	6
Benzene	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromodichloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromoform	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Butanone	ug/l	N.D.	3	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1	N.D.	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Chloroform	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Dibromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	N.D.	1	2 J	1	1 J	1
1,2-Dichloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	N.D.	0.8	100	0.8	20	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3	N.D.	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2	N.D.	2
Naphthalene	ug/l	N.D.	1	N.D.	1	N.D.	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1

PTL03 0013

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MWH Americas, Inc.
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SDG: PTL03

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Styrene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Toluene	ug/l	N.D.	0.7	N.D.	0.7	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	1 J	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1	N.D.	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8

Analysis Name	Units	5796205 P-18D Gr Result	MDL	5796206 EB-02 Gr Result	MDL	5796207 DUP-02 G Result	MDL
Acetone	ug/l	N.D.	6	N.D.	6	N.D.	6
Benzene	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromodichloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromoform	ug/l	N.D.	1	N.D.	1	N.D.	1
Bromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Butanone	ug/l	N.D.	3	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1	N.D.	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Chloroform	ug/l	0.9 J	0.8	1 J	0.8	N.D.	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Dibromomethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1

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Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	1 J	1	N.D.	1	N.D.	1
1,2-Dichloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	37	0.8	N.D.	0.8	2 J	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	N.D.	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5	N.D.	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3	N.D.	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2	N.D.	2
Naphthalene	ug/l	N.D.	1	N.D.	1	N.D.	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Styrene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Toluene	ug/l	N.D.	0.7	N.D.	0.7	0.8 J	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	0.8 J	0.8	N.D.	0.8	N.D.	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	N.D.	2	N.D.	2	N.D.	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1	N.D.	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	N.D.	0.8

Analysis Name	Units	5796208 P-19S Gr Result	MDL	5796209 P-19D Gr Result	MDL	5796210 P-19D Ma Result	MDL
Acetone	ug/l	N.D.	6	N.D.	6	180	6
Benzene	ug/l	N.D.	0.5	N.D.	0.5	23	0.5
Bromobenzene	ug/l	N.D.	1	N.D.	1	24	1
Bromochloromethane	ug/l	N.D.	1	N.D.	1	24	1

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Bromodichloromethane	ug/l	N.D.	1	N.D.	1	22	1
Bromoform	ug/l	N.D.	1	N.D.	1	19	1
Bromomethane	ug/l	N.D.	1	N.D.	1	16	1
2-Butanone	ug/l	N.D.	3	N.D.	3	140	3
n-Butylbenzene	ug/l	N.D.	1	N.D.	1	23	1
sec-Butylbenzene	ug/l	N.D.	1	N.D.	1	24	1
tert-Butylbenzene	ug/l	N.D.	1	N.D.	1	24	1
Carbon Tetrachloride	ug/l	N.D.	1	N.D.	1	24	1
Chlorobenzene	ug/l	N.D.	0.8	N.D.	0.8	24	0.8
Chloroethane	ug/l	N.D.	1	N.D.	1	24	1
Chloroform	ug/l	N.D.	0.8	1 J	0.8	25	0.8
Chloromethane	ug/l	N.D.	1	N.D.	1	24	1
2-Chlorotoluene	ug/l	N.D.	1	N.D.	1	23	1
4-Chlorotoluene	ug/l	N.D.	1	N.D.	1	24	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2	N.D.	2	17	2
Dibromochloromethane	ug/l	N.D.	1	N.D.	1	20	1
1,2-Dibromoethane	ug/l	N.D.	1	N.D.	1	21	1
Dibromomethane	ug/l	N.D.	1	N.D.	1	22	1
1,2-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	23	1
1,3-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	24	1
1,4-Dichlorobenzene	ug/l	N.D.	1	N.D.	1	24	1
Dichlorodifluoromethane	ug/l	N.D.	2	N.D.	2	20	2
1,1-Dichloroethane	ug/l	N.D.	1	N.D.	1	23	1
1,2-Dichloroethane	ug/l	N.D.	1	N.D.	1	22	1
1,1-Dichloroethene	ug/l	2 J	0.8	4 J	0.8	30	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	23	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8	N.D.	0.8	24	0.8
1,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	22	1
1,3-Dichloropropane	ug/l	N.D.	1	N.D.	1	21	1
2,2-Dichloropropane	ug/l	N.D.	1	N.D.	1	22	1
1,1-Dichloropropene	ug/l	N.D.	1	N.D.	1	23	1
cis-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	21	1
trans-1,3-Dichloropropene	ug/l	N.D.	1	N.D.	1	20	1
Ethylbenzene	ug/l	N.D.	0.8	N.D.	0.8	24	0.8
Hexachlorobutadiene	ug/l	N.D.	2	N.D.	2	23	2
Isopropylbenzene	ug/l	N.D.	1	N.D.	1	23	1
p-Isopropyltoluene	ug/l	N.D.	1	N.D.	1	24	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5	N.D.	0.5	19	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3	N.D.	3	96	3
Methylene Chloride	ug/l	N.D.	2	N.D.	2	21	2
Naphthalene	ug/l	N.D.	1	N.D.	1	20	1
n-Propylbenzene	ug/l	N.D.	1	N.D.	1	25	1
Styrene	ug/l	N.D.	1	N.D.	1	24	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	23	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1	N.D.	1	21	1
Tetrachloroethene	ug/l	N.D.	0.8	N.D.	0.8	24	0.8

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Toluene	ug/l	N.D.	0.7	N.D.	0.7	24	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	22	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1	N.D.	1	22	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	24	0.8
1,1,2-Trichloroethane	ug/l	N.D.	0.8	N.D.	0.8	22	0.8
Trichloroethene	ug/l	N.D.	1	N.D.	1	25	1
Trichlorofluoromethane	ug/l	N.D.	2	N.D.	2	27	2
1,2,3-Trichloropropane	ug/l	N.D.	1	N.D.	1	20	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	23	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1	N.D.	1	24	1
Vinyl Chloride	ug/l	N.D.	1	N.D.	1	25	1
m+p-Xylene	ug/l	N.D.	0.8	N.D.	0.8	49	0.8
o-Xylene	ug/l	N.D.	0.8	N.D.	0.8	24	0.8

Analysis Name	Units	5796211 P-19D Ma Result	MDL	5796212 P-20S Gr Result	MDL	5796213 P-20D Gr Result	MDL
Acetone	ug/l	170	6	N.D.	6	N.D.	6
Benzene	ug/l	24	0.5	N.D.	0.5	N.D.	0.5
Bromobenzene	ug/l	24	1	N.D.	1	N.D.	1
Bromochloromethane	ug/l	24	1	N.D.	1	N.D.	1
Bromodichloromethane	ug/l	22	1	N.D.	1	N.D.	1
Bromoform	ug/l	18	1	N.D.	1	N.D.	1
Bromomethane	ug/l	17	1	N.D.	1	N.D.	1
2-Butanone	ug/l	140	3	N.D.	3	N.D.	3
n-Butylbenzene	ug/l	24	1	N.D.	1	N.D.	1
sec-Butylbenzene	ug/l	25	1	N.D.	1	N.D.	1
tert-Butylbenzene	ug/l	25	1	N.D.	1	N.D.	1
Carbon Tetrachloride	ug/l	24	1	N.D.	1	N.D.	1
Chlorobenzene	ug/l	24	0.8	N.D.	0.8	N.D.	0.8
Chloroethane	ug/l	22	1	N.D.	1	N.D.	1
Chloroform	ug/l	25	0.8	N.D.	0.8	1 J	0.8
Chloromethane	ug/l	23	1	N.D.	1	N.D.	1
2-Chlorotoluene	ug/l	24	1	N.D.	1	N.D.	1
4-Chlorotoluene	ug/l	24	1	N.D.	1	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	18	2	N.D.	2	N.D.	2
Dibromochloromethane	ug/l	21	1	N.D.	1	N.D.	1
1,2-Dibromoethane	ug/l	22	1	N.D.	1	N.D.	1
Dibromomethane	ug/l	22	1	N.D.	1	N.D.	1
1,2-Dichlorobenzene	ug/l	24	1	N.D.	1	N.D.	1
1,3-Dichlorobenzene	ug/l	24	1	N.D.	1	N.D.	1
1,4-Dichlorobenzene	ug/l	24	1	N.D.	1	N.D.	1
Dichlorodifluoromethane	ug/l	20	2	N.D.	2	N.D.	2
1,1-Dichloroethane	ug/l	24	1	N.D.	1	N.D.	1
1,2-Dichloroethane	ug/l	22	1	N.D.	1	N.D.	1
1,1-Dichloroethene	ug/l	30	0.8	7	0.8	28	0.8

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cis-1,2-Dichloroethene	ug/l	23	0.8	N.D.	0.8	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	24	0.8	N.D.	0.8	N.D.	0.8
1,2-Dichloropropane	ug/l	23	1	N.D.	1	N.D.	1
1,3-Dichloropropane	ug/l	22	1	N.D.	1	N.D.	1
2,2-Dichloropropane	ug/l	23	1	N.D.	1	N.D.	1
1,1-Dichloropropene	ug/l	24	1	N.D.	1	N.D.	1
cis-1,3-Dichloropropene	ug/l	21	1	N.D.	1	N.D.	1
trans-1,3-Dichloropropene	ug/l	20	1	N.D.	1	N.D.	1
Ethylbenzene	ug/l	24	0.8	N.D.	0.8	N.D.	0.8
Hexachlorobutadiene	ug/l	23	2	N.D.	2	N.D.	2
Isopropylbenzene	ug/l	23	1	N.D.	1	N.D.	1
p-Isopropyltoluene	ug/l	24	1	N.D.	1	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	20	0.5	N.D.	0.5	N.D.	0.5
4-Methyl-2-pentanone	ug/l	98	3	N.D.	3	N.D.	3
Methylene Chloride	ug/l	21	2	N.D.	2	N.D.	2
Naphthalene	ug/l	21	1	N.D.	1	N.D.	1
n-Propylbenzene	ug/l	25	1	N.D.	1	N.D.	1
Styrene	ug/l	23	1	N.D.	1	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	23	1	N.D.	1	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	21	1	N.D.	1	N.D.	1
Tetrachloroethene	ug/l	25	0.8	N.D.	0.8	N.D.	0.8
Toluene	ug/l	24	0.7	N.D.	0.7	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	22	1	N.D.	1	N.D.	1
1,2,4-Trichlorobenzene	ug/l	22	1	N.D.	1	N.D.	1
1,1,1-Trichloroethane	ug/l	25	0.8	N.D.	0.8	N.D.	0.8
1,1,2-Trichloroethane	ug/l	22	0.8	N.D.	0.8	N.D.	0.8
Trichloroethene	ug/l	25	1	N.D.	1	N.D.	1
Trichlorofluoromethane	ug/l	27	2	N.D.	2	N.D.	2
1,2,3-Trichloropropane	ug/l	21	1	N.D.	1	N.D.	1
1,2,4-Trimethylbenzene	ug/l	24	1	N.D.	1	N.D.	1
1,3,5-Trimethylbenzene	ug/l	24	1	N.D.	1	N.D.	1
Vinyl Chloride	ug/l	24	1	N.D.	1	N.D.	1
m+p-Xylene	ug/l	49	0.8	N.D.	0.8	N.D.	0.8
o-Xylene	ug/l	23	0.8	N.D.	0.8	N.D.	0.8

Analysis Name	Units	5796214 TB-01 Wa Result	MDL
Acetone	ug/l	N.D.	6
Benzene	ug/l	N.D.	0.5
Bromobenzene	ug/l	N.D.	1
Bromochloromethane	ug/l	N.D.	1
Bromodichloromethane	ug/l	N.D.	1
Bromoform	ug/l	N.D.	1
Bromomethane	ug/l	N.D.	1
2-Butanone	ug/l	N.D.	3

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n-Butylbenzene	ug/l	N.D.	1
sec-Butylbenzene	ug/l	N.D.	1
tert-Butylbenzene	ug/l	N.D.	1
Carbon Tetrachloride	ug/l	N.D.	1
Chlorobenzene	ug/l	N.D.	0.8
Chloroethane	ug/l	N.D.	1
Chloroform	ug/l	N.D.	0.8
Chloromethane	ug/l	N.D.	1
2-Chlorotoluene	ug/l	N.D.	1
4-Chlorotoluene	ug/l	N.D.	1
1,2-Dibromo-3-chloropropane	ug/l	N.D.	2
Dibromochloromethane	ug/l	N.D.	1
1,2-Dibromoethane	ug/l	N.D.	1
Dibromomethane	ug/l	N.D.	1
1,2-Dichlorobenzene	ug/l	N.D.	1
1,3-Dichlorobenzene	ug/l	N.D.	1
1,4-Dichlorobenzene	ug/l	N.D.	1
Dichlorodifluoromethane	ug/l	N.D.	2
1,1-Dichloroethane	ug/l	N.D.	1
1,2-Dichloroethane	ug/l	N.D.	1
1,1-Dichloroethene	ug/l	N.D.	0.8
cis-1,2-Dichloroethene	ug/l	N.D.	0.8
trans-1,2-Dichloroethene	ug/l	N.D.	0.8
1,2-Dichloropropane	ug/l	N.D.	1
1,3-Dichloropropane	ug/l	N.D.	1
2,2-Dichloropropane	ug/l	N.D.	1
1,1-Dichloropropene	ug/l	N.D.	1
cis-1,3-Dichloropropene	ug/l	N.D.	1
trans-1,3-Dichloropropene	ug/l	N.D.	1
Ethylbenzene	ug/l	N.D.	0.8
Hexachlorobutadiene	ug/l	N.D.	2
Isopropylbenzene	ug/l	N.D.	1
p-Isopropyltoluene	ug/l	N.D.	1
Methyl Tertiary Butyl Ether	ug/l	N.D.	0.5
4-Methyl-2-pentanone	ug/l	N.D.	3
Methylene Chloride	ug/l	N.D.	2
Naphthalene	ug/l	N.D.	1
n-Propylbenzene	ug/l	N.D.	1
Styrene	ug/l	N.D.	1
1,1,1,2-Tetrachloroethane	ug/l	N.D.	1
1,1,2,2-Tetrachloroethane	ug/l	N.D.	1
Tetrachloroethene	ug/l	N.D.	0.8
Toluene	ug/l	N.D.	0.7
1,2,3-Trichlorobenzene	ug/l	N.D.	1
1,2,4-Trichlorobenzene	ug/l	N.D.	1
1,1,1-Trichloroethane	ug/l	N.D.	0.8

PTL03 6819

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MWH Americas, Inc.
Project: GE Patillas Puerto Rico
SDG: PTL03

Report Date: 10/14/2009 19:11
Submit Date: 10/3/2009 10:00

1,1,2-Trichloroethane	ug/l	N.D.	0.8
Trichloroethene	ug/l	N.D.	1
Trichlorofluoromethane	ug/l	N.D.	2
1,2,3-Trichloropropane	ug/l	N.D.	1
1,2,4-Trimethylbenzene	ug/l	N.D.	1
1,3,5-Trimethylbenzene	ug/l	N.D.	1
Vinyl Chloride	ug/l	N.D.	1
m+p-Xylene	ug/l	N.D.	0.8
o-Xylene	ug/l	N.D.	0.8

PTL03 0028

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CAT No.	Analysis Name	Method	Trial ID	Analysis Date/Time	Analyst	Dilution
5796196	**EB-01 Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	10/9/09 1956	Kristen D Pelliccia	1
00310	8260B water special scan	SW-846 8260B	1	10/9/09 1956	Kristen D Pelliccia	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/9/09 1956	Kristen D Pelliccia	1
5796197	**P-7 Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	10/9/09 2313	Kristen D Pelliccia	1
00310	8260B water special scan	SW-846 8260B	1	10/9/09 2313	Kristen D Pelliccia	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/9/09 2313	Kristen D Pelliccia	1
5796198	**P-7A Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	10/9/09 2335	Kristen D Pelliccia	1
00310	8260B water special scan	SW-846 8260B	1	10/9/09 2335	Kristen D Pelliccia	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/9/09 2335	Kristen D Pelliccia	1
5796199	**P-10A Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	10/9/09 2356	Kristen D Pelliccia	1
06886	Appendix IX by 8260 - water	SW-846 8260B	1	10/12/09 2022	Michael A Ziegler	10
00310	8260B water special scan	SW-846 8260B	1	10/9/09 2356	Kristen D Pelliccia	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/9/09 2356	Kristen D Pelliccia	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	10/12/09 2022	Michael A Ziegler	10
5796200	**P-15DD Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	10/12/09 2001	Michael A Ziegler	1
00310	8260B water special scan	SW-846 8260B	1	10/12/09 2001	Michael A Ziegler	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/12/09 2001	Michael A Ziegler	1
5796201	**DUP-01 Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	10/10/09 0040	Kristen D Pelliccia	1
00310	8260B water special scan	SW-846 8260B	1	10/10/09 0040	Kristen D Pelliccia	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/10/09 0040	Kristen D Pelliccia	1
5796202	**P-16S Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	10/10/09 0102	Kristen D Pelliccia	1
00310	8260B water special scan	SW-846 8260B	1	10/10/09 0102	Kristen D Pelliccia	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/10/09 0102	Kristen D Pelliccia	1
5796203	**P-17D Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	10/10/09 0123	Kristen D Pelliccia	1
00310	8260B water special scan	SW-846 8260B	1	10/10/09 0123	Kristen D Pelliccia	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/10/09 0123	Kristen D Pelliccia	1
5796204	**P-18S Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	10/10/09 0145	Kristen D Pelliccia	1
00310	8260B water special scan	SW-846 8260B	1	10/10/09 0145	Kristen D Pelliccia	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/10/09 0145	Kristen D Pelliccia	1
5796205	**P-18D Grab Water**					

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CAT No.	Analysis Name	Method	Trial ID	Analysis Date/Time	Analyst	Dilution
06886	Appendix IX by 8260 - water	SW-846 8260B	1	10/10/09 0207	Kristen D Pelliccia	1
00310	8260B water special scan	SW-846 8260B	1	10/10/09 0207	Kristen D Pelliccia	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/10/09 0207	Kristen D Pelliccia	1
5796206	**EB-02 Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	10/7/09 2112	Nicholas P Riehl	1
00310	8260B water special scan	SW-846 8260B	1	10/7/09 2112	Nicholas P Riehl	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/7/09 2112	Nicholas P Riehl	1
5796207	**DUP-02 Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	10/8/09 0134	Nicholas P Riehl	1
00310	8260B water special scan	SW-846 8260B	1	10/8/09 0134	Nicholas P Riehl	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/8/09 0134	Nicholas P Riehl	1
5796208	**P-19S Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	10/10/09 0229	Kristen D Pelliccia	1
00310	8260B water special scan	SW-846 8260B	1	10/10/09 0229	Kristen D Pelliccia	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/10/09 0229	Kristen D Pelliccia	1
5796209	**P-19D Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	10/7/09 2345	Nicholas P Riehl	1
00310	8260B water special scan	SW-846 8260B	1	10/7/09 2345	Nicholas P Riehl	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/7/09 2345	Nicholas P Riehl	1
5796210	**P-19D Matrix Spike Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	10/8/09 0007	Nicholas P Riehl	1
00310	8260B water special scan	SW-846 8260B	1	10/8/09 0007	Nicholas P Riehl	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/8/09 0007	Nicholas P Riehl	1
5796211	**P-19D Matrix Spike Dup Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	10/8/09 0029	Nicholas P Riehl	1
00310	8260B water special scan	SW-846 8260B	1	10/8/09 0029	Nicholas P Riehl	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/8/09 0029	Nicholas P Riehl	1
5796212	**P-20S Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	10/8/09 0051	Nicholas P Riehl	1
00310	8260B water special scan	SW-846 8260B	1	10/8/09 0051	Nicholas P Riehl	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/8/09 0051	Nicholas P Riehl	1
5796213	**P-20D Grab Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	10/8/09 0112	Nicholas P Riehl	1
00310	8260B water special scan	SW-846 8260B	1	10/8/09 0112	Nicholas P Riehl	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/8/09 0112	Nicholas P Riehl	1
5796214	**TB-01 Water**					
06886	Appendix IX by 8260 - water	SW-846 8260B	1	10/7/09 2050	Nicholas P Riehl	1
00310	8260B water special scan	SW-846 8260B	1	10/7/09 2050	Nicholas P Riehl	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/7/09 2050	Nicholas P Riehl	1

PTL03 8822

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Client Name: MWH Americas, Inc. Group Number: 1164779

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	Max RPD
Batch number: L092802AA	Sample number(s): 5796206-5796207,5796209-5796214							
Acetone	N.D.	6.	ug/l	122		49-234		
Benzene	N.D.	0.5	ug/l	105		79-120		
Bromobenzene	N.D.	1.	ug/l	112		80-120		
Bromochloromethane	N.D.	1.	ug/l	112		80-120		
Bromodichloromethane	N.D.	1.	ug/l	102		80-120		
Bromoform	N.D.	1.	ug/l	99		61-120		
Bromomethane	N.D.	1.	ug/l	68		40-137		
2-Butanone	N.D.	3.	ug/l	96		64-166		
n-Butylbenzene	N.D.	1.	ug/l	104		74-120		
sec-Butylbenzene	N.D.	1.	ug/l	108		78-120		
tert-Butylbenzene	N.D.	1.	ug/l	108		80-120		
Carbon Tetrachloride	N.D.	1.	ug/l	104		75-123		
Chlorobenzene	N.D.	0.8	ug/l	110		80-120		
Chloroethane	N.D.	1.	ug/l	98		49-129		
Chloroform	N.D.	0.8	ug/l	106		77-122		
Chloromethane	N.D.	1.	ug/l	103		60-129		
2-Chlorotoluene	N.D.	1.	ug/l	109		80-120		
4-Chlorotoluene	N.D.	1.	ug/l	111		80-120		
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	86		66-120		
Dibromochloromethane	N.D.	1.	ug/l	102		80-120		
1,2-Dibromoethane	N.D.	1.	ug/l	103		80-120		
Dibromomethane	N.D.	1.	ug/l	102		80-120		
1,2-Dichlorobenzene	N.D.	1.	ug/l	108		80-120		
1,3-Dichlorobenzene	N.D.	1.	ug/l	111		80-120		
1,4-Dichlorobenzene	N.D.	1.	ug/l	110		80-120		
Dichlorodifluoromethane	N.D.	2.	ug/l	78		54-152		
1,1-Dichloroethane	N.D.	1.	ug/l	102		79-120		
1,2-Dichloroethane	N.D.	1.	ug/l	100		70-130		
1,1-Dichloroethene	N.D.	0.8	ug/l	109		74-123		
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	104		80-120		
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	104		80-120		
1,2-Dichloropropane	N.D.	1.	ug/l	103		78-120		
1,3-Dichloropropane	N.D.	1.	ug/l	102		80-120		
2,2-Dichloropropane	N.D.	1.	ug/l	99		77-124		
1,1-Dichloropropene	N.D.	1.	ug/l	101		80-120		
cis-1,3-Dichloropropene	N.D.	1.	ug/l	103		80-120		

* - Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

PTL03. 0023

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trans-1,3-Dichloropropene	N.D.	1.	ug/l	100	79-120
Ethylbenzene	N.D.	0.8	ug/l	107	79-120
Hexachlorobutadiene	N.D.	2.	ug/l	100	58-120
Isopropylbenzene	N.D.	1.	ug/l	105	77-120
p-Isopropyltoluene	N.D.	1.	ug/l	109	80-120
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	94	76-120
4-Methyl-2-pentanone	N.D.	3.	ug/l	93	70-121
Methylene Chloride	N.D.	2.	ug/l	101	80-120
Naphthalene	N.D.	1.	ug/l	97	62-120
n-Propylbenzene	N.D.	1.	ug/l	110	80-120
Styrene	N.D.	1.	ug/l	111	80-120
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/l	105	80-120
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	101	71-117
Tetrachloroethene	N.D.	0.8	ug/l	111	80-121
Toluene	N.D.	0.7	ug/l	107	79-120
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	101	65-120
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	101	67-120
1,1,1-Trichloroethane	N.D.	0.8	ug/l	106	75-127
1,1,2-Trichloroethane	N.D.	0.8	ug/l	105	80-120
Trichloroethene	N.D.	1.	ug/l	107	80-120
Trichlorofluoromethane	N.D.	2.	ug/l	109	64-129
1,2,3-Trichloropropane	N.D.	1.	ug/l	98	80-120
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	107	74-120
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	109	75-120
Vinyl Chloride	N.D.	1.	ug/l	104	59-120
m+p-Xylene	N.D.	0.8	ug/l	110	80-120
o-Xylene	N.D.	0.8	ug/l	110	80-120

Batch number: L092822AA Sample number(s): 5796196-5796199,5796201-5796205,5796208

Acetone	N.D.	6.	ug/l	125	49-234
Benzene	N.D.	0.5	ug/l	101	79-120
Bromobenzene	N.D.	1.	ug/l	104	80-120
Bromochloromethane	N.D.	1.	ug/l	106	80-120
Bromodichloromethane	N.D.	1.	ug/l	99	80-120
Bromoform	N.D.	1.	ug/l	98	61-120
Bromomethane	N.D.	1.	ug/l	66	40-137
2-Butanone	N.D.	3.	ug/l	107	64-166
n-Butylbenzene	N.D.	1.	ug/l	101	74-120
sec-Butylbenzene	N.D.	1.	ug/l	100	78-120
tert-Butylbenzene	N.D.	1.	ug/l	98	80-120
Carbon Tetrachloride	N.D.	1.	ug/l	97	75-123
Chlorobenzene	N.D.	0.8	ug/l	103	80-120
Chloroethane	N.D.	1.	ug/l	67	49-129
Chloroform	N.D.	0.8	ug/l	103	77-122
Chloromethane	N.D.	1.	ug/l	103	60-129
2-Chlorotoluene	N.D.	1.	ug/l	99	80-120
4-Chlorotoluene	N.D.	1.	ug/l	101	80-120

* - Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

PTL03-0824

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1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	94	66-120
Dibromochloromethane	N.D.	1.	ug/l	96	80-120
1,2-Dibromoethane	N.D.	1.	ug/l	98	80-120
Dibromomethane	N.D.	1.	ug/l	102	80-120
1,2-Dichlorobenzene	N.D.	1.	ug/l	104	80-120
1,3-Dichlorobenzene	N.D.	1.	ug/l	104	80-120
1,4-Dichlorobenzene	N.D.	1.	ug/l	103	80-120
Dichlorodifluoromethane	N.D.	2.	ug/l	77	54-152
1,1-Dichloroethane	N.D.	1.	ug/l	99	79-120
1,2-Dichloroethane	N.D.	1.	ug/l	105	70-130
1,1-Dichloroethene	N.D.	0.8	ug/l	105	74-123
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	100	80-120
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	98	80-120
1,2-Dichloropropane	N.D.	1.	ug/l	100	78-120
1,3-Dichloropropane	N.D.	1.	ug/l	99	80-120
2,2-Dichloropropane	N.D.	1.	ug/l	97	77-124
1,1-Dichloropropene	N.D.	1.	ug/l	97	80-120
cis-1,3-Dichloropropene	N.D.	1.	ug/l	99	80-120
trans-1,3-Dichloropropene	N.D.	1.	ug/l	98	79-120
Ethylbenzene	N.D.	0.8	ug/l	101	79-120
Hexachlorobutadiene	N.D.	2.	ug/l	85	58-120
Isopropylbenzene	N.D.	1.	ug/l	99	77-120
p-Isopropyltoluene	N.D.	1.	ug/l	103	80-120
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	95	76-120
4-Methyl-2-pentanone	N.D.	3.	ug/l	104	70-121
Methylene Chloride	N.D.	2.	ug/l	98	80-120
Naphthalene	N.D.	1.	ug/l	97	62-120
n-Propylbenzene	N.D.	1.	ug/l	99	80-120
Styrene	N.D.	1.	ug/l	105	80-120
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/l	98	80-120
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	93	71-117
Tetrachloroethene	N.D.	0.8	ug/l	124*	80-121
Toluene	N.D.	0.7	ug/l	100	79-120
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	98	65-120
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	99	67-120
1,1,1-Trichloroethane	N.D.	0.8	ug/l	103	75-127
1,1,2-Trichloroethane	N.D.	0.8	ug/l	103	80-120
Trichloroethene	N.D.	1.	ug/l	109	80-120
Trichlorofluoromethane	N.D.	2.	ug/l	104	64-129
1,2,3-Trichloropropane	N.D.	1.	ug/l	102	80-120
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	102	74-120
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	100	75-120
Vinyl Chloride	N.D.	1.	ug/l	107	59-120
m+p-Xylene	N.D.	0.8	ug/l	102	80-120
o-Xylene	N.D.	0.8	ug/l	106	80-120

Batch number: L092851AA Sample number(s): 5796199-5796200

* - Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

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Acetone	N.D.	6.	ug/l	174	49-234
Benzene	N.D.	0.5	ug/l	100	79-120
Bromobenzene	N.D.	1.	ug/l	103	80-120
Bromochloromethane	N.D.	1.	ug/l	104	80-120
Bromodichloromethane	N.D.	1.	ug/l	98	80-120
Bromoform	N.D.	1.	ug/l	98	61-120
Bromomethane	N.D.	1.	ug/l	69	40-137
2-Butanone	N.D.	3.	ug/l	122	64-166
n-Butylbenzene	N.D.	1.	ug/l	99	74-120
sec-Butylbenzene	N.D.	1.	ug/l	101	78-120
tert-Butylbenzene	N.D.	1.	ug/l	93	80-120
Carbon Tetrachloride	N.D.	1.	ug/l	99	75-123
Chlorobenzene	N.D.	0.8	ug/l	103	80-120
Chloroethane	N.D.	1.	ug/l	74	49-129
Chloroform	N.D.	0.8	ug/l	101	77-122
Chloromethane	N.D.	1.	ug/l	119	60-129
2-Chlorotoluene	N.D.	1.	ug/l	102	80-120
4-Chlorotoluene	N.D.	1.	ug/l	102	80-120
1,2-Dibromo-3-chloropropane	N.D.	2.	ug/l	92	66-120
Dibromochloromethane	N.D.	1.	ug/l	97	80-120
1,2-Dibromoethane	N.D.	1.	ug/l	98	80-120
Dibromomethane	N.D.	1.	ug/l	98	80-120
1,2-Dichlorobenzene	N.D.	1.	ug/l	103	80-120
1,3-Dichlorobenzene	N.D.	1.	ug/l	103	80-120
1,4-Dichlorobenzene	N.D.	1.	ug/l	103	80-120
Dichlorodifluoromethane	N.D.	2.	ug/l	99	54-152
1,1-Dichloroethane	N.D.	1.	ug/l	100	79-120
1,2-Dichloroethane	N.D.	1.	ug/l	100	70-130
1,1-Dichloroethene	N.D.	0.8	ug/l	105	74-123
cis-1,2-Dichloroethene	N.D.	0.8	ug/l	98	80-120
trans-1,2-Dichloroethene	N.D.	0.8	ug/l	99	80-120
1,2-Dichloropropane	N.D.	1.	ug/l	97	78-120
1,3-Dichloropropane	N.D.	1.	ug/l	100	80-120
2,2-Dichloropropane	N.D.	1.	ug/l	98	77-124
1,1-Dichloropropene	N.D.	1.	ug/l	99	80-120
cis-1,3-Dichloropropene	N.D.	1.	ug/l	99	80-120
trans-1,3-Dichloropropene	N.D.	1.	ug/l	99	79-120
Ethylbenzene	N.D.	0.8	ug/l	103	79-120
Hexachlorobutadiene	N.D.	2.	ug/l	89	58-120
Isopropylbenzene	N.D.	1.	ug/l	102	77-120
p-Isopropyltoluene	N.D.	1.	ug/l	104	80-120
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	95	76-120
4-Methyl-2-pentanone	N.D.	3.	ug/l	104	70-121
Methylene Chloride	N.D.	2.	ug/l	93	80-120
Naphthalene	N.D.	1.	ug/l	90	62-120
n-Propylbenzene	N.D.	1.	ug/l	102	80-120
Styrene	N.D.	1.	ug/l	104	80-120
1,1,1,2-Tetrachloroethane	N.D.	1.	ug/l	99	80-120
1,1,2,2-Tetrachloroethane	N.D.	1.	ug/l	94	71-117

* - Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

PTL03 9826

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Tetrachloroethene	N.D.	0.8	ug/l	104	80-121
Toluene	N.D.	0.7	ug/l	104	79-120
1,2,3-Trichlorobenzene	N.D.	1.	ug/l	95	65-120
1,2,4-Trichlorobenzene	N.D.	1.	ug/l	98	67-120
1,1,1-Trichloroethane	N.D.	0.8	ug/l	102	75-127
1,1,2-Trichloroethane	N.D.	0.8	ug/l	102	80-120
Trichloroethene	N.D.	1.	ug/l	108	80-120
Trichlorofluoromethane	N.D.	2.	ug/l	107	64-129
1,2,3-Trichloropropane	N.D.	1.	ug/l	102	80-120
1,2,4-Trimethylbenzene	N.D.	1.	ug/l	102	74-120
1,3,5-Trimethylbenzene	N.D.	1.	ug/l	102	75-120
Vinyl Chloride	N.D.	1.	ug/l	107	59-120
m+p-Xylene	N.D.	0.8	ug/l	103	80-120
o-Xylene	N.D.	0.8	ug/l	106	80-120

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
Batch number: L092802AA	Sample number(s): 5796206-5796207,5796209-5796214 UNSPK: 5796209								
Acetone	118	116	52-139	2	30				
Benzene	117	118	80-126	1	30				
Bromobenzene	119*	121*	82-115	2	30				
Bromochloromethane	119	120	83-123	1	30				
Bromodichloromethane	111	112	78-125	1	30				
Bromoform	94	91	60-121	3	30				
Bromomethane	80	85	38-149	5	30				
2-Butanone	94	95	57-138	1	30				
n-Butylbenzene	116	118	73-128	2	30				
sec-Butylbenzene	121	124	79-125	3	30				
tert-Butylbenzene	119	123*	81-121	3	30				
Carbon Tetrachloride	120	122	81-138	2	30				
Chlorobenzene	120	122	87-124	1	30				
Chloroethane	120	111	51-145	8	30				
Chloroform	118	120	81-134	2	30				
Chloromethane	119	115	67-154	3	30				
2-Chlorotoluene	117	120*	82-118	2	30				
4-Chlorotoluene	121	121	84-122	0	30				
1,2-Dibromo-3-chloropropane	87	89	66-121	2	30				
Dibromochloromethane	102	105	74-116	2	30				
1,2-Dibromoethane	107	108	77-116	1	30				
Dibromomethane	108	109	83-119	1	30				
1,2-Dichlorobenzene	117	119	84-119	1	30				

* - Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

PTL03 9027

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1,3-Dichlorobenzene	118	121	86-121	3	30
1,4-Dichlorobenzene	119	120	85-121	1	30
Dichlorodifluoromethane	100	101	64-163	1	30
1,1-Dichloroethane	114	119	84-129	4	30
1,2-Dichloroethane	108	111	66-141	3	30
1,1-Dichloroethene	131	131	85-142	0	30
cis-1,2-Dichloroethene	116	116	85-125	0	30
trans-1,2-Dichloroethene	119	118	87-126	1	30
1,2-Dichloropropane	112	114	83-124	1	30
1,3-Dichloropropane	107	109	81-120	2	30
2,2-Dichloropropane	110	114	81-135	3	30
1,1-Dichloropropene	116	119	86-137	2	30
cis-1,3-Dichloropropene	105	105	75-125	0	30
trans-1,3-Dichloropropene	99	102	74-119	3	30
Ethylbenzene	119	120	71-134	1	30
Hexachlorobutadiene	113	117	56-134	3	30
Isopropylbenzene	116	113	75-128	3	30
p-Isopropyltoluene	120	120	76-123	1	30
Methyl Tertiary Butyl Ether	97	101	72-126	4	30
4-Methyl-2-pentanone	96	98	63-123	3	30
Methylene Chloride	104	107	79-120	2	30
Naphthalene	101	103	52-125	2	30
n-Propylbenzene	124	123	74-134	1	30
Styrene	119	115	60-140	4	30
1,1,1,2-Tetrachloroethane	113	117	82-119	3	30
1,1,2,2-Tetrachloroethane	105	105	73-119	0	30
Tetrachloroethene	122	127	80-128	3	30
Toluene	120	122	80-125	2	30
1,2,3-Trichlorobenzene	109	112	57-122	3	30
1,2,4-Trichlorobenzene	109	112	60-122	2	30
1,1,1-Trichloroethane	122	124	80-143	2	30
1,1,2-Trichloroethane	111	111	77-124	0	30
Trichloroethene	124	124	88-133	0	30
Trichlorofluoromethane	134	133	73-152	1	30
1,2,3-Trichloropropane	101	103	76-118	1	30
1,2,4-Trimethylbenzene	117	118	72-130	1	30
1,3,5-Trimethylbenzene	119	121	72-131	2	30
Vinyl Chloride	123	119	66-133	4	30
m+p-Xylene	122	123	79-125	1	30
o-Xylene	122	116	79-125	5	30

Batch number: L092822AA Sample number(s): 5796196-5796199,5796201-5796205,5796208 UNSPK: P798475

Acetone	117	117	52-139	0	30
Benzene	104	102	80-126	2	30
Bromobenzene	104	103	82-115	1	30
Bromochloromethane	108	105	83-123	3	30
Bromodichloromethane	100	99	78-125	1	30

* - Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

PTL83 0028

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Bromoform	92	91	60-121	1	30
Bromomethane	76	82	38-149	7	30
2-Butanone	103	102	57-138	0	30
n-Butylbenzene	106	104	73-128	2	30
sec-Butylbenzene	105	102	79-125	3	30
tert-Butylbenzene	104	102	81-121	2	30
Carbon Tetrachloride	106	105	81-138	1	30
Chlorobenzene	106	104	87-124	2	30
Chloroethane	92	89	51-145	3	30
Chloroform	108	108	81-134	0	30
Chloromethane	111	110	67-154	1	30
2-Chlorotoluene	103	101	82-118	2	30
4-Chlorotoluene	103	102	84-122	1	30
1,2-Dibromo-3-chloropropane	91	89	66-121	2	30
Dibromochloromethane	96	94	74-116	1	30
1,2-Dibromoethane	99	97	77-116	1	30
Dibromomethane	102	99	83-119	3	30
1,2-Dichlorobenzene	103	101	84-119	2	30
1,3-Dichlorobenzene	106	103	86-121	3	30
1,4-Dichlorobenzene	104	102	85-121	1	30
Dichlorodifluoromethane	87	84	64-163	3	30
1,1-Dichloroethane	101	100	84-129	1	30
1,2-Dichloroethane	105	105	66-141	0	30
1,1-Dichloroethene	108	108	85-142	0	30
cis-1,2-Dichloroethene	107	106	85-125	1	30
trans-1,2-Dichloroethene	105	101	87-126	3	30
1,2-Dichloropropane	103	101	83-124	2	30
1,3-Dichloropropane	99	99	81-120	0	30
2,2-Dichloropropane	102	102	81-135	1	30
1,1-Dichloropropene	104	102	86-137	1	30
cis-1,3-Dichloropropene	87	89	75-125	2	30
trans-1,3-Dichloropropene	89	89	74-119	0	30
Ethylbenzene	105	103	71-134	1	30
Hexachlorobutadiene	90	91	56-134	2	30
Isopropylbenzene	103	102	75-128	1	30
p-Isopropyltoluene	106	105	76-123	1	30
Methyl Tertiary Butyl Ether	94	94	72-126	0	30
4-Methyl-2-pentanone	101	102	63-123	1	30
Methylene Chloride	95	95	79-120	0	30
Naphthalene	92	91	52-125	0	30
n-Propylbenzene	105	102	74-134	3	30
Styrene	106	105	60-140	1	30
1,1,1,2-Tetrachloroethane	101	100	82-119	0	30
1,1,2,2-Tetrachloroethane	99	97	73-119	1	30
Tetrachloroethene	108	108	80-128	0	30
Toluene	103	104	80-125	1	30
1,2,3-Trichlorobenzene	95	94	57-122	1	30
1,2,4-Trichlorobenzene	96	96	60-122	0	30
1,1,1-Trichloroethane	110	109	80-143	1	30

* - Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

PTL83 68829

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1,1,2-Trichloroethane	103	100	77-124	3	30
Trichloroethene	101	105	88-133	1	30
Trichlorofluoromethane	118	116	73-152	2	30
1,2,3-Trichloropropane	100	98	76-118	1	30
1,2,4-Trimethylbenzene	103	102	72-130	1	30
1,3,5-Trimethylbenzene	103	102	72-131	1	30
Vinyl Chloride	115	113	66-133	1	30
m+p-Xylene	106	104	79-125	1	30
o-Xylene	107	107	79-125	0	30

Batch number: L092851AA Sample number(s): 5796199-5796200 UNSPK: P794959

Acetone	118	109	52-139	8	30
Benzene	105	103	80-126	2	30
Bromobenzene	111	103	82-115	8	30
Bromochloromethane	110	104	83-123	5	30
Bromodichloromethane	103	98	78-125	5	30
Bromoform	100	93	60-121	7	30
Bromomethane	73	69	38-149	5	30
2-Butanone	105	100	57-138	4	30
n-Butylbenzene	113	109	73-128	3	30
sec-Butylbenzene	111	106	79-125	4	30
tert-Butylbenzene	111	106	81-121	5	30
Carbon Tetrachloride	106	103	81-138	3	30
Chlorobenzene	111	106	87-124	5	30
Chloroethane	75	71	51-145	5	30
Chloroform	107	104	81-134	3	30
Chloromethane	126	117	67-154	7	30
2-Chlorotoluene	108	103	82-118	5	30
4-Chlorotoluene	110	104	84-122	5	30
1,2-Dibromo-3-chloropropane	98	92	66-121	7	30
Dibromochloromethane	99	96	74-116	3	30
1,2-Dibromoethane	103	98	77-116	5	30
Dibromomethane	102	100	83-119	3	30
1,2-Dichlorobenzene	111	106	84-119	5	30
1,3-Dichlorobenzene	112	105	86-121	6	30
1,4-Dichlorobenzene	110	106	85-121	4	30
Dichlorodifluoromethane	109	108	64-163	1	30
1,1-Dichloroethane	105	104	84-129	1	30
1,2-Dichloroethane	105	103	66-141	2	30
1,1-Dichloroethene	115	109	85-142	5	30
cis-1,2-Dichloroethene	104	100	85-125	4	30
trans-1,2-Dichloroethene	105	103	87-126	2	30
1,2-Dichloropropane	105	100	83-124	5	30
1,3-Dichloropropane	105	100	81-120	5	30
2,2-Dichloropropane	103	102	81-135	1	30
1,1-Dichloropropene	106	104	86-137	2	30
cis-1,3-Dichloropropene	98	94	75-125	4	30

* - Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

PTL03 0030

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trans-1,3-Dichloropropene	100	95	74-119	5	30
Ethylbenzene	110	106	71-134	4	30
Hexachlorobutadiene	96	97	56-134	1	30
Isopropylbenzene	109	105	75-128	4	30
p-Isopropyltoluene	114	109	76-123	5	30
Methyl Tertiary Butyl Ether	97	95	72-126	2	30
4-Methyl-2-pentanone	105	100	63-123	4	30
Methylene Chloride	98	95	79-120	3	30
Naphthalene	99	98	52-125	2	30
n-Propylbenzene	110	104	74-134	5	30
Styrene	112	107	60-140	5	30
1,1,1,2-Tetrachloroethane	107	100	82-119	7	30
1,1,2,2-Tetrachloroethane	108	101	73-119	7	30
Tetrachloroethene	114	111	80-128	3	30
Toluene	110	107	80-125	2	30
1,2,3-Trichlorobenzene	103	101	57-122	2	30
1,2,4-Trichlorobenzene	106	102	60-122	4	30
1,1,1-Trichloroethane	110	109	80-143	1	30
1,1,2-Trichloroethane	107	103	77-124	5	30
Trichloroethene	111	108	88-133	2	30
Trichlorofluoromethane	121	116	73-152	4	30
1,2,3-Trichloropropane	107	100	76-118	6	30
1,2,4-Trimethylbenzene	111	106	72-130	5	30
1,3,5-Trimethylbenzene	111	106	72-131	5	30
Vinyl Chloride	117	111	66-133	5	30
m+p-Xylene	112	106	79-125	5	30
o-Xylene	113	109	79-125	4	30

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Appendix IX by 8260 - water
Batch number: L092802AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5796206	102	98	102	98
5796207	102	101	104	98
5796209	101	98	103	98
5796210	102	102	104	102
5796211	102	99	105	96
5796212	101	100	104	94
5796213	101	98	104	98
5796214	101	99	104	100
Blank	102	99	103	99
LCS	101	99	104	102
MS	102	102	104	102

* - Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

PTL03 0031

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MSD	102	99	105	96
Limits:	80-116	77-113	80-113	78-113

Analysis Name: Appendix IX by 8260 - water
Batch number: L092822AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5796196	95	94	96	96
5796197	97	94	97	96
5796198	95	93	97	95
5796199	96	95	97	95
5796201	97	93	94	94
5796202	97	96	94	95
5796203	96	96	97	95
5796204	97	96	96	95
5796205	98	95	97	94
5796208	97	93	96	95
Blank	95	94	96	96
LCS	96	93	97	98
MS	97	95	97	99
MSD	96	95	97	99
Limits:	80-116	77-113	80-113	78-113

Analysis Name: Appendix IX by 8260 - water
Batch number: L092851AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5796200	94	95	97	97
Blank	95	95	98	97
LCS	95	94	98	97
MS	96	92	99	100
MSD	96	94	99	99
Limits:	80-116	77-113	80-113	78-113

* - Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

PTL03 0032

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QC Comment

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

5796196 EB-01 Grab Water

5796197 P-7 Grab Water

5796198 P-7A Grab Water

5796199 P-10A Grab Water

5796200 P-15DD Grab Water

5796201 DUP-01 Grab Water

5796202 P-16S Grab Water

5796203 P-17D Grab Water

5796204 P-18S Grab Water

5796205 P-18D Grab Water

5796206 EB-02 Grab Water

5796207 DUP-02 Grab Water

PEL03 0033

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5796208 P-19S Grab Water

5796209 P-19D Grab Water

5796210 P-19D Matrix Spike Grab Water

5796211 P-19D Matrix Spike Dup Grab Water

5796212 P-20S Grab Water

5796213 P-20D Grab Water

5796214 TB-01 Water

PTL03 8834

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Volatiles by GC/MS Data

Case Narrative
Conformance/Nonconformance Summary

CASE NARRATIVE
Client: MWH Americas, Inc.
SDG#: PTL03

LANCASTER LABORATORIES
VOLATILES BY GC/MS

SAMPLE NUMBERS:

		Matrix	
LL #'s	Sample Code	Water	Comments
5796196	PATEB	X	Client Blank
5796197	PATP7	X	
5796198	PAP7A	X	
5796199	PA10A	X	
5796199	PA10ADL	X	10 X Dilution
5796200	PA15D	X	
5796201	PATD1	X	
5796202	PA16S	X	
5796203	PA17D	X	
5796204	PA18S	X	
5796205	PA18D	X	
5796206	PAEB2	X	Client Blank
5796207	PAFD2	X	
5796208	PA19S	X	
5796209	PA19D	X	Unspiked
5796210	PA19DMS	X	Matrix Spike
5796211	PA19DMSD	X	Matrix Spike Dup
5796212	PA20S	X	
5796213	PA20D	X	
5796214	PATB1	X	Client Blank

LABORATORY SUBMITTED QC:

VBLKL28	VBLKL28	X	Method Blank
VBLKL31	VBLKL31	X	Method Blank
VBLKL33	VBLKL33	X	Method Blank
LCSL28	LCSL28	X	Lab Control Sample
LCSL31	LCSL31	X	Lab Control Sample
LCSL33	LCSL33	X	Lab Control Sample
LCS6L33	LCS6L33	X	Lab Control Sample

PTL03 0037

SAMPLE PREPARATION:

No sample preparation was necessary for the VOA fraction.

ANALYSIS:

No problems were encountered during the analysis of these samples.

QUALITY CONTROL and NONCONFORMANCE SUMMARY:

Matrix QC may not be included if site-specific QC were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCD was performed, unless otherwise specified in the method or by the client.

The percent recoveries for multiple compounds are outside QC limits in the MS and/or MSD. The associated LCS/LCSD meets recovery criteria, indicating a matrix effect.

The percent recovery exceeds the maximum recovery limit for tetrachloroethane in LCSL31. Since a positive bias is observed and the compound is not detected in the associated samples, no further action is needed.

All other QC is within specifications.

DATA INTERPRETATION:

No further interpretation is necessary for the data submitted.

Case Narrative reviewed and approved by:

Date 10/29/09

Dana M. Kauffman
Manager, Data Deliverables

PTL03 0038

QC Summary

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKL28

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKL28

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/09oct07b.b/1c07b03.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 10/07/09

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/L	Q
75-71-8	Dichlorodifluoromethane		2	U
74-87-3	Chloromethane		1	U
75-01-4	Vinyl Chloride		1	U
74-83-9	Bromomethane		1	U
75-00-3	Chloroethane		1	U
75-43-4	Dichlorofluoromethane		2	U
75-69-4	Trichlorofluoromethane		2	U
60-29-7	Ethyl Ether		2	U
354-23-4	Freon 123a		2	U
107-02-8	Acrolein		40	U
75-35-4	1,1-Dichloroethene		0.8	U
76-13-1	Freon 113		2	U
67-64-1	Acetone		6	U
67-63-0	2-Propanol		50	U
74-88-4	Methyl Iodide		1	U
75-15-0	Carbon Disulfide		1	U
107-05-1	Allyl Chloride		1	U
79-20-9	Methyl Acetate		1	U
75-09-2	Methylene Chloride		2	U
75-65-0	t-Butyl Alcohol		10	U
107-13-1	Acrylonitrile		4	U
156-60-5	trans-1,2-Dichloroethene		0.8	U
1634-04-4	Methyl Tertiary Butyl Ether		0.5	U
110-54-3	n-Hexane		2	U
75-34-3	1,1-Dichloroethane		1	U
108-20-3	di-Isopropyl Ether		0.8	U
126-99-8	2-Chloro-1,3-Butadiene		1	U
540-59-0	1,2-Dichloroethene (total)		0.8	U
637-92-3	Ethyl t-Butyl Ether		0.8	U
156-59-2	cis-1,2-Dichloroethene		0.8	U

PTL03 0040

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKL28

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKL28

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/09oct07b.b/lc07b03.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 10/07/09

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/L	Q
78-93-3	2-Butanone		3	U
594-20-7	2,2-Dichloropropane		1	U
107-12-0	Propionitrile		30	U
126-98-7	Methacrylonitrile		10	U
74-97-5	Bromochloromethane		1	U
109-99-9	Tetrahydrofuran		4	U
67-66-3	Chloroform		0.8	U
71-55-6	1,1,1-Trichloroethane		0.8	U
110-82-7	Cyclohexane		2	U
563-58-6	1,1-Dichloropropene		1	U
56-23-5	Carbon Tetrachloride		1	U
78-83-1	Isobutyl Alcohol		100	U
71-43-2	Benzene		0.5	U
107-06-2	1,2-Dichloroethane		1	U
994-05-8	t-Amyl Methyl Ether		0.8	U
142-82-5	n-Heptane		2	U
71-36-3	n-Butanol		100	U
79-01-6	Trichloroethene		1	U
108-87-2	Methylcyclohexane		1	U
78-87-5	1,2-Dichloropropane		1	U
74-95-3	Dibromomethane		1	U
80-62-6	Methyl Methacrylate		1	U
123-91-1	1,4-Dioxane		70	U
75-27-4	Bromodichloromethane		1	U
79-46-9	2-Nitropropane		2	U
110-75-8	2-Chloroethyl Vinyl Ether		2	U
10061-01-5	cis-1,3-Dichloropropene		1	U
108-10-1	4-Methyl-2-Pentanone		3	U
108-88-3	Toluene		0.7	U
10061-02-6	trans-1,3-Dichloropropene		1	U

PTL03 8841

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKL28

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKL28

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/09oct07b.b/lc07b03.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 10/07/09

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/L	Q
97-63-2	Ethyl Methacrylate		1	U
79-00-5	1,1,2-Trichlorcethane		0.8	U
127-18-4	Tetrachloroethene		0.8	U
142-28-9	1,3-Dichloropropane		1	U
591-78-6	2-Hexanone		3	U
124-48-1	Dibromochloromethane		1	U
106-93-4	1,2-Dibromoethane		1	U
108-90-7	Chlorobenzene		0.8	U
630-20-6	1,1,1,2-Tetrachloroethane		1	U
100-41-4	Ethylbenzene		0.8	U
179601-23-1	m+p-Xylene		0.8	U
1330-20-7	Xylene (Total)		0.8	U
95-47-6	o-Xylene		0.8	U
100-42-5	Styrene		1	U
75-25-2	Bromoform		1	U
98-82-8	Isopropylbenzene		1	U
108-94-1	Cyclohexanone		55	U
79-34-5	1,1,2,2-Tetrachloroethane		1	U
108-86-1	Bromobenzene		1	U
96-18-4	1,2,3-Trichloropropane		1	U
110-57-6	trans-1,4-Dichloro-2-Butene		15	U
103-65-1	n-Propylbenzene		1	U
95-49-8	2-Chlorotoluene		1	U
108-67-8	1,3,5-Trimethylbenzene		1	U
106-43-4	4-Chlorotoluene		1	U
98-06-6	tert-Butylbenzene		1	U
76-01-7	Pentachloroethane		1	U
95-63-6	1,2,4-Trimethylbenzene		1	U
135-98-8	sec-Butylbenzene		1	U
541-73-1	1,3-Dichlorobenzene		1	U

PTL03 0042

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKL28

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKL28

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/09oct07b.b/lc07b03.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 10/07/09

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/L	Q
99-87-6	p-Isopropyltoluene		1	U
106-46-7	1,4-Dichlorobenzene		1	U
526-73-8	1,2,3-Trimethylbenzene		1	U
100-44-7	Benzyl Chloride		1	U
141-93-5	1,3-Diethylbenzene		1	U
105-05-5	1,4-Diethylbenzene		1	U
104-51-8	n-Butylbenzene		1	U
95-50-1	1,2-Dichlorobenzene		1	U
135-01-3	1,2-Diethylbenzene		1	U
96-12-8	1,2-Dibromo-3-Chloropropane		2	U
120-82-1	1,2,4-Trichlorobenzene		1	U
87-68-3	Hexachlorobutadiene		2	U
91-20-3	Naphthalene		1	U
87-61-6	1,2,3-Trichlorobenzene		1	U
91-57-6	2-Methylnaphthalene		2	U
25340-17-4	Diethylbenzene (total)		1	U

PTL03 2843

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLKL31

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKL31

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/09oct09b.b/1c09b05.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 10/09/09

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/L	Q
75-71-8	Dichlorodifluoromethane		2	U
74-87-3	Chloromethane		1	U
75-01-4	Vinyl Chloride		1	U
74-83-9	Bromomethane		1	U
75-00-3	Chloroethane		1	U
75-69-4	Trichlorofluoromethane		2	U
60-29-7	Ethyl Ether		2	U
107-02-8	Acrolein		40	U
75-35-4	1,1-Dichloroethene		0.8	U
76-13-1	Freon 113		2	U
67-64-1	Acetone		6	U
67-63-0	2-Propanol		50	U
74-88-4	Methyl Iodide		1	U
75-15-0	Carbon Disulfide		1	U
107-05-1	Allyl Chloride		1	U
79-20-9	Methyl Acetate		1	U
75-09-2	Methylene Chloride		2	U
75-65-0	t-Butyl Alcohol		10	U
107-13-1	Acrylonitrile		4	U
156-60-5	trans-1,2-Dichloroethene		0.8	U
1634-04-4	Methyl Tertiary Butyl Ether		0.5	U
110-54-3	n-Hexane		2	U
75-34-3	1,1-Dichloroethane		1	U
108-20-3	di-Isopropyl Ether		0.8	U
126-99-8	2-Chloro-1,3-Butadiene		1	U
540-59-0	1,2-Dichloroethene (total)		0.8	U
637-92-3	Ethyl t-Butyl Ether		0.8	U
156-59-2	cis-1,2-Dichloroethene		0.8	U
78-93-3	2-Butanone		3	U
594-20-7	2,2-Dichloropropane		1	U

PTL03 0044

FORM I VOA

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLKL31

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKL31

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/09oct09b.b/lc09b05.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 10/09/09

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/L	Q
107-12-0	Propionitrile		30	U
126-98-7	Methacrylonitrile		10	U
74-97-5	Bromochloromethane		1	U
109-99-9	Tetrahydrofuran		4	U
67-66-3	Chloroform		0.8	U
71-55-6	1,1,1-Trichloroethane		0.8	U
110-82-7	Cyclohexane		2	U
563-58-6	1,1-Dichloropropene		1	U
56-23-5	Carbon Tetrachloride		1	U
78-83-1	Isobutyl Alcohol		100	U
71-43-2	Benzene		0.5	U
107-06-2	1,2-Dichloroethane		1	U
994-05-8	t-Amyl Methyl Ether		0.8	U
142-82-5	n-Heptane		2	U
71-36-3	n-Butanol		100	U
79-01-6	Trichloroethene		1	U
108-87-2	Methylcyclohexane		1	U
78-87-5	1,2-Dichloropropane		1	U
74-95-3	Dibromomethane		1	U
80-62-6	Methyl Methacrylate		1	U
123-91-1	1,4-Dioxane		70	U
75-27-4	Bromodichloromethane		1	U
79-46-9	2-Nitropropane		2	U
110-75-8	2-Chloroethyl Vinyl Ether		2	U
10061-01-5	cis-1,3-Dichloropropene		1	U
108-10-1	4-Methyl-2-Pentanone		3	U
108-88-3	Toluene		0.7	U
10061-02-6	trans-1,3-Dichloropropene		1	U
97-63-2	Ethyl Methacrylate		1	U
79-00-5	1,1,2-Trichloroethane		0.8	U

PTL83 0045

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKL31

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKL31

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/09oct09b.b/lc09b05.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 10/09/09

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/L	Q
127-18-4	Tetrachloroethene		0.8	U
142-28-9	1,3-Dichloropropane		1	U
591-78-6	2-Hexanone		3	U
124-48-1	Dibromochloromethane		1	U
106-93-4	1,2-Dibromoethane		1	U
108-90-7	Chlorobenzene		0.8	U
630-20-6	1,1,1,2-Tetrachloroethane		1	U
100-41-4	Ethylbenzene		0.8	U
179601-23-1	m+p-Xylene		0.8	U
1330-20-7	Xylene (Total)		0.8	U
95-47-6	o-Xylene		0.8	U
100-42-5	Styrene		1	U
75-25-2	Bromoform		1	U
98-82-8	Isopropylbenzene		1	U
108-94-1	Cyclohexanone		55	U
79-34-5	1,1,2,2-Tetrachloroethane		1	U
108-86-1	Bromobenzene		1	U
96-18-4	1,2,3-Trichloropropane		1	U
110-57-6	trans-1,4-Dichloro-2-Butene		15	U
103-65-1	n-Propylbenzene		1	U
95-49-8	2-Chlorotoluene		1	U
108-67-8	1,3,5-Trimethylbenzene		1	U
106-43-4	4-Chlorotoluene		1	U
98-06-6	tert-Butylbenzene		1	U
76-01-7	Pentachloroethane		1	U
95-63-6	1,2,4-Trimethylbenzene		1	U
135-98-8	sec-Butylbenzene		1	U
541-73-1	1,3-Dichlorobenzene		1	U
99-87-6	p-Isopropyltoluene		1	U
106-46-7	1,4-Dichlorobenzene		1	U

PTL03 8846

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKL31

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKL31

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/09oct09b.b/lc09b05.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 10/09/09

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/L	Q
526-73-8	1,2,3-Trimethylbenzene		1	U
100-44-7	Benzyl Chloride		1	U
141-93-5	1,3-Diethylbenzene		1	U
105-05-5	1,4-Diethylbenzene		1	U
104-51-8	n-Butylbenzene		1	U
95-50-1	1,2-Dichlorobenzene		1	U
135-01-3	1,2-Diethylbenzene		1	U
96-12-8	1,2-Dibromo-3-Chloropropane		2	U
120-82-1	1,2,4-Trichlorobenzene		1	U
87-68-3	Hexachlorobutadiene		2	U
91-20-3	Naphthalene		1	U
87-61-6	1,2,3-Trichlorobenzene		1	U
91-57-6	2-Methylnaphthalene		2	U
25340-17-4	Diethylbenzene (total)		1	U

PTL83 8847

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKL33

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKL33

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/09oct12a.b/lc12b01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 10/12/09

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/L	Q
75-71-8	Dichlorodifluoromethane		2	U
74-87-3	Chloromethane		1	U
75-01-4	Vinyl Chloride		1	U
74-83-9	Bromomethane		1	U
75-00-3	Chloroethane		1	U
75-69-4	Trichlorofluoromethane		2	U
60-29-7	Ethyl Ether		2	U
107-02-8	Acrolein		40	U
75-35-4	1,1-Dichloroethene		0.8	U
76-13-1	Freon 113		2	U
67-64-1	Acetone		6	U
67-63-0	2-Propanol		50	U
74-88-4	Methyl Iodide		1	U
75-15-0	Carbon Disulfide		1	U
107-05-1	Allyl Chloride		1	U
79-20-9	Methyl Acetate		1	U
75-09-2	Methylene Chloride		2	U
75-65-0	t-Butyl Alcohol		10	U
107-13-1	Acrylonitrile		4	U
156-60-5	trans-1,2-Dichloroethene		0.8	U
1634-04-4	Methyl Tertiary Butyl Ether		0.5	U
110-54-3	n-Hexane		2	U
75-34-3	1,1-Dichloroethane		1	U
108-20-3	di-Isopropyl Ether		0.8	U
126-99-8	2-Chloro-1,3-Butadiene		1	U
540-59-0	1,2-Dichloroethene (total)		0.8	U
637-92-3	Ethyl t-Butyl Ether		0.8	U
156-59-2	cis-1,2-Dichloroethene		0.8	U
78-93-3	2-Butanone		3	U
594-20-7	2,2-Dichloropropane		1	U

PTL83 8845

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKL33

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKL33

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/09oct12a.b/lc12b01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 10/12/09

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/L	Q
107-12-0	Propionitrile		30	U
126-98-7	Methacrylonitrile		10	U
74-97-5	Bromochloromethane		1	U
109-99-9	Tetrahydrofuran		4	U
67-66-3	Chloroform		0.8	U
71-55-6	1,1,1-Trichloroethane		0.8	U
110-82-7	Cyclohexane		2	U
563-58-6	1,1-Dichloropropene		1	U
56-23-5	Carbon Tetrachloride		1	U
78-83-1	Isobutyl Alcohol		100	U
71-43-2	Benzene		0.5	U
107-06-2	1,2-Dichloroethane		1	U
994-05-8	t-Amyl Methyl Ether		0.8	U
142-82-5	n-Heptane		2	U
71-36-3	n-Butanol		100	U
79-01-6	Trichloroethene		1	U
108-87-2	Methylcyclohexane		1	U
78-87-5	1,2-Dichloropropane		1	U
74-95-3	Dibromomethane		1	U
80-62-6	Methyl Methacrylate		1	U
123-91-1	1,4-Dioxane		70	U
75-27-4	Bromodichloromethane		1	U
79-46-9	2-Nitropropane		2	U
110-75-8	2-Chloroethyl Vinyl Ether		2	U
10061-01-5	cis-1,3-Dichloropropene		1	U
108-10-1	4-Methyl-2-Pentanone		3	U
108-88-3	Toluene		0.7	U
10061-02-6	trans-1,3-Dichloropropene		1	U
97-63-2	Ethyl Methacrylate		1	U
79-00-5	1,1,2-Trichloroethane		0.8	U

PTLB3 0049

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKL33

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKL33

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/09oct12a.b/lc12b01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 10/12/09

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/L	Q
127-18-4	Tetrachloroethene		0.8	U
142-28-9	1,3-Dichloropropane		1	U
591-78-6	2-Hexanone		3	U
124-48-1	Dibromochloromethane		1	U
106-93-4	1,2-Dibromoethane		1	U
108-90-7	Chlorobenzene		0.8	U
630-20-6	1,1,1,2-Tetrachloroethane		1	U
100-41-4	Ethylbenzene		0.8	U
179601-23-1	m+p-Xylene		0.8	U
1330-20-7	Xylene (Total)		0.8	U
95-47-6	o-Xylene		0.8	U
100-42-5	Styrene		1	U
75-25-2	Bromoform		1	U
98-82-8	Isopropylbenzene		1	U
108-94-1	Cyclohexanone		55	U
79-34-5	1,1,2,2-Tetrachloroethane		1	U
108-86-1	Bromobenzene		1	U
96-18-4	1,2,3-Trichloropropane		1	U
110-57-6	trans-1,4-Dichloro-2-Butene		15	U
103-65-1	n-Propylbenzene		1	U
95-49-8	2-Chlorotoluene		1	U
108-67-8	1,3,5-Trimethylbenzene		1	U
106-43-4	4-Chlorotoluene		1	U
98-06-6	tert-Butylbenzene		1	U
76-01-7	Pentachloroethane		1	U
95-63-6	1,2,4-Trimethylbenzene		1	U
135-98-8	sec-Butylbenzene		1	U
541-73-1	1,3-Dichlorobenzene		1	U
99-87-6	p-Isopropyltoluene		1	U
106-46-7	1,4-Dichlorobenzene		1	U

PTL03 0059

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLKL33

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) WATER Lab Sample ID: VBLKL33

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: HP09915.i/09oct12a.b/1c12b01.d

Level: (low/med) LOW Date Received:

Moisture: not dec. _____ Date Analyzed: 10/12/09

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	MDL ug/L	Q
526-73-8	1,2,3-Trimethylbenzene		1	U
100-44-7	Benzyl Chloride		1	U
141-93-5	1,3-Diethylbenzene		1	U
105-05-5	1,4-Diethylbenzene		1	U
104-51-8	n-Butylbenzene		1	U
95-50-1	1,2-Dichlorobenzene		1	U
135-01-3	1,2-Diethylbenzene		1	U
96-12-8	1,2-Dibromo-3-Chloropropane		2	U
120-82-1	1,2,4-Trichlorobenzene		1	U
87-68-3	Hexachlorobutadiene		2	U
91-20-3	Naphthalene		1	U
87-61-6	1,2,3-Trichlorobenzene		1	U
91-57-6	2-Methylnaphthalene		2	U
25340-17-4	Diethylbenzene (total)		1	U

PTL03 0851

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name:___Lancaster Laboratories___ Contract:_____

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:PTL03___

	LL #'s	EPA SAMPLE NO.	S1 (DBF) #	S2 (DCA) #	S3 (TOL) #	S4 (BFB) #	TOT OUT
01	5796196	PATEB	95	94	96	96	0
02	5796197	PATP7	97	94	97	96	0
03	5796198	PAP7A	95	93	97	95	0
04	5796199	PA10A	96	95	97	95	0
05	5796199	PA10ADL	95	94	98	96	0
06	5796200	PA15D	94	95	97	97	0
07	5796201	PATD1	97	93	94	94	0
08	5796202	PA16S	97	96	94	95	0
09	5796203	PA17D	96	96	97	95	0
10	5796204	PA18S	97	96	96	95	0
11	5796205	PA18D	98	95	97	94	0
12	5796206	PAEB2	102	98	102	98	0
13	5796207	PAFD2	102	101	104	98	0
14	5796208	PA19S	97	93	96	95	0
15	5796209	PA19D	101	98	103	98	0
16	5796210	PA19DMS	102	102	104	102	0
17	5796211	PA19DMSD	102	99	105	96	0
18	5796212	PA20S	101	100	104	94	0
19	5796213	PA20D	101	98	104	98	0
20	5796214	PATB1	101	99	104	100	0
21	VBLKL31	VBLKL31	95	94	96	96	0
22	VBLKL33	VBLKL33	95	95	98	97	0
23	VBLKL28	VBLKL28	102	99	103	99	0
24	LCSL28	LCSL28	101	99	104	102	0
25	LCSL31	LCSL31	96	93	97	98	0
26	LCSL33	LCSL33	95	94	99	99	0
27	LCS6L33	LCS6L33	95	94	98	97	0

	QC LIMITS
S1 (DBF) = Dibromofluoromethane	(80-116)
S2 (DCA) = 1,2-Dichloroethane-d4	(77-113)
S3 (TOL) = Toluene-d8	(80-113)
S4 (BFB) = 4-Bromofluorobenzene	(78-113)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

Lancaster Laboratories, Inc.
GC/MS Volatiles Matrix Spike/Spike Duplicate Recoveries

Unspiked: lc07s39.d
PA19D 5796209
Method: SW-846 8260B
Instrument: HP09915

Matrix Spike: lc07s40.d
PA19DMS 5796210
Matrix/Level: WL
Dilution Factor: 1.00

Spike Duplicate: lc07s41.d
PA19DMSD 5796211
Batch: L092802AA

COMPOUND NAME	MS SPIKE	MSD SPIKE	US CONC UG/L	MS CONC UG/L	MSD CONC UG/L	MS REC %	MSD REC %	Range LOWER-UPPER	INSPEC	RPD %	RPD MAX
Dichlorodifluoromethane	20.0	20.0	ND	19.9	20.1	100	101	64-163	YES	1	30
Chloromethane	20.0	20.0	ND	23.7	23.0	119	115	67-154	YES	3	30
Vinyl Chloride	20.0	20.0	ND	24.7	23.8	123	119	66-133	YES	4	30
Bromomethane	20.0	20.0	ND	16.1	16.9	80	85	38-149	YES	5	30
Chloroethane	20.0	20.0	ND	24.0	22.3	120	111	51-145	YES	8	30
Trichlorofluoromethane	20.0	20.0	ND	26.9	26.5	134	133	73-152	YES	1	30
1,1-Dichloroethene	20.0	20.0	4.13	30.3	30.3	131	131	85-142	YES	0	30
Acetone	150.0	150.0	ND	177	174	118	116	52-139	YES	2	30
Methylene Chloride	20.0	20.0	ND	20.9	21.4	104	107	79-120	YES	2	30
trans-1,2-Dichloroethene	20.0	20.0	ND	23.8	23.5	119	118	87-126	YES	1	30
Methyl Tertiary Butyl Ether	20.0	20.0	ND	19.4	20.1	97	101	72-126	YES	4	30
1,1-Dichloroethane	20.0	20.0	ND	22.9	23.7	114	119	84-129	YES	4	30
cis-1,2-Dichloroethene	20.0	20.0	ND	23.2	23.3	116	116	85-125	YES	0	30
2-Butanone	150.0	150.0	ND	141	143	94	95	57-138	YES	1	30
2,2-Dichloropropane	20.0	20.0	ND	22.1	22.9	110	114	81-135	YES	3	30
Bromochloromethane	20.0	20.0	ND	23.9	24.0	119	120	83-123	YES	1	30
Chloroform	20.0	20.0	1.07	24.6	25.0	118	120	81-134	YES	2	30
1,1,1-Trichloroethane	20.0	20.0	ND	24.4	24.8	122	124	80-143	YES	2	30
1,1-Dichloropropene	20.0	20.0	ND	23.2	23.8	116	119	86-137	YES	2	30
Carbon Tetrachloride	20.0	20.0	ND	24.0	24.4	120	122	81-138	YES	2	30
Benzene	20.0	20.0	ND	23.3	23.6	117	118	80-126	YES	1	30
1,2-Dichloroethane	20.0	20.0	ND	21.6	22.2	108	111	66-141	YES	3	30
Trichloroethene	20.0	20.0	ND	24.8	24.9	124	124	88-133	YES	0	30
1,2-Dichloropropane	20.0	20.0	ND	22.5	22.8	112	114	83-124	YES	1	30
Dibromomethane	20.0	20.0	ND	21.6	21.7	108	109	83-119	YES	1	30
Bromodichloromethane	20.0	20.0	ND	22.1	22.4	111	112	78-125	YES	1	30
cis-1,3-Dichloropropene	20.0	20.0	ND	20.9	21.0	105	105	75-125	YES	0	30
4-Methyl-2-Pentanone	100.0	100.0	ND	96.0	98.4	96	98	63-123	YES	3	30
Toluene	20.0	20.0	ND	24.1	24.5	120	122	80-125	YES	2	30
trans-1,3-Dichloropropene	20.0	20.0	ND	19.8	20.3	99	102	74-119	YES	3	30
1,1,2-Trichloroethane	20.0	20.0	ND	22.3	22.2	111	111	77-124	YES	0	30
Tetrachloroethene	20.0	20.0	ND	24.4	25.3	122	127	80-128	YES	3	30
1,3-Dichloropropane	20.0	20.0	ND	21.5	21.9	107	109	81-120	YES	2	30
Dibromochloromethane	20.0	20.0	ND	20.4	20.9	102	105	74-116	YES	2	30
1,2-Dibromoethane	20.0	20.0	ND	21.4	21.5	107	108	77-116	YES	1	30
Chlorobenzene	20.0	20.0	ND	24.0	24.3	120	122	87-124	YES	1	30
1,1,1,2-Tetrachloroethane	20.0	20.0	ND	22.7	23.3	113	117	82-119	YES	3	30
Ethylbenzene	20.0	20.0	ND	23.7	24.0	119	120	71-134	YES	1	30
m+p-Xylene	40.0	40.0	ND	48.6	49.3	122	123	79-125	YES	1	30
o-Xylene	20.0	20.0	ND	24.3	23.3	122	116	79-125	YES	5	30
Styrene	20.0	20.0	ND	23.7	22.9	119	115	60-140	YES	4	30
Bromoform	20.0	20.0	ND	18.8	18.2	94	91	60-121	YES	3	30
Isopropylbenzene	20.0	20.0	ND	23.3	22.6	116	113	75-128	YES	3	30
1,1,2,2-Tetrachloroethane	20.0	20.0	ND	21.0	21.1	105	105	73-119	YES	0	30
Bromobenzene	20.0	20.0	ND	23.8	24.3	119	121	82-115	NO	2	30
1,2,3-Trichloropropane	20.0	20.0	ND	20.2	20.5	101	103	76-118	YES	1	30
n-Propylbenzene	20.0	20.0	ND	24.7	24.5	124	123	74-134	YES	1	30
2-Chlorotoluene	20.0	20.0	ND	23.5	24.0	117	120	82-118	NO	2	30
1,3,5-Trimethylbenzene	20.0	20.0	ND	23.7	24.2	119	121	72-131	YES	2	30
4-Chlorotoluene	20.0	20.0	ND	24.1	24.2	121	121	84-122	YES	0	30
tert-Butylbenzene	20.0	20.0	ND	23.9	24.6	119	123	81-121	NO	3	30
1,2,4-Trimethylbenzene	20.0	20.0	ND	23.4	23.5	117	118	72-130	YES	1	30
sec-Butylbenzene	20.0	20.0	ND	24.1	24.9	121	124	79-125	YES	3	30
1,3-Dichlorobenzene	20.0	20.0	ND	23.6	24.3	118	121	86-121	YES	3	30
p-Isopropyltoluene	20.0	20.0	ND	23.9	24.1	120	120	76-123	YES	0	30
1,4-Dichlorobenzene	20.0	20.0	ND	23.7	23.9	119	120	85-121	YES	1	30
n-Butylbenzene	20.0	20.0	ND	23.1	23.7	116	118	73-128	YES	2	30
1,2-Dichlorobenzene	20.0	20.0	ND	23.4	23.7	117	119	84-119	YES	1	30

N/C = Could not calculate

Lab Chronicle: _____ Ent. by [illegible] 8853

_____ Ver. by _____

Lancaster Laboratories, Inc.
GC/MS Volatiles Matrix Spike/Spike Duplicate Recoveries

Unspiked: lc07s39.d
PA19D 5796209
Method: SW-846 8260B
Instrument: HP09915

Matrix Spike: lc07s40.d
PA19DMS 5796210
Matrix/Level: WL
Dilution Factor: 1.00

Spike Duplicate: lc07s41.d
PA19DMSD 5796211
Batch: L092802AA

COMPOUND NAME	MS SPIKE	MSD SPIKE	US CONC UG/L	MS CONC UG/L	MSD CONC UG/L	MS REC %	MSD REC %	Range LOWER-UPPER	INSPEC	RPD %	RPD MAX
1,2-Dibromo-3-Chloropropane	20.0	20.0	ND	17.4	17.8	87	89	66-121	YES	2	30
1,2,4-Trichlorobenzene	20.0	20.0	ND	21.8	22.3	109	112	60-122	YES	2	30
Hexachlorobutadiene	20.0	20.0	ND	22.6	23.3	113	117	56-134	YES	3	30
Naphthalene	20.0	20.0	ND	20.2	20.7	101	103	52-125	YES	2	30
1,2,3-Trichlorobenzene	20.0	20.0	ND	21.7	22.4	109	112	57-122	YES	3	30

N/C = Could not calculate

PTL03 0054

Lab Chronicle: _____ Ent. by _____

_____ Ver. by _____

_____

Lancaster Laboratories, Inc.
GC/MS Volatiles Laboratory Control Sample Recovery

File: lc07l02.d
Inst: HP09915
Dilution Factor: 1.0

Injected: 10/07/09 at 18:23
Sample: LCSL28

Method: SW-846 8260B
Matrix/Level: WL
Batch: L092802AA

COMPOUND NAME	SPIKE LEVEL	LCS CONC UG/L	LCS REC %	Range LOWER-UPPER	INSPEC
Dichlorodifluoromethane	20.00	15.67	78	54-152	YES
Chloromethane	20.00	20.60	103	60-129	YES
Vinyl Chloride	20.00	20.88	104	59-120	YES
Bromomethane	20.00	13.67	68	40-137	YES
Chloroethane	20.00	19.57	98	49-129	YES
Dichlorofluoromethane	20.00	31.09	155	56-128	NO
Trichlorofluoromethane	20.00	21.71	109	64-129	YES
Ethyl Ether	20.00	26.78	134	23-144	YES
Freon 123a	20.00	30.77	154	63-125	NO
Acrolein	150.00	140.44	94	43-135	YES
1,1-Dichloroethene	20.00	21.80	109	74-123	YES
Freon 113	20.00	21.09	105	69-128	YES
Acetone	150.00	182.93	122	49-234	YES
2-Propanol	150.00	177.29	118	67-122	YES
Methyl Iodide	20.00	20.68	103	71-122	YES
Carbon Disulfide	20.00	18.69	93	71-120	YES
Allyl Chloride	20.00	23.10	115	65-140	YES
Methyl Acetate	20.00	19.52	98	73-139	YES
Methylene Chloride	20.00	20.18	101	80-120	YES
t-Butyl Alcohol	200.00	223.91	112	73-120	YES
Acrylonitrile	100.00	90.64	91	67-120	YES
trans-1,2-Dichloroethene	20.00	20.83	104	80-120	YES
Methyl Tertiary Butyl Ether	20.00	18.75	94	76-120	YES
n-Hexane	20.00	18.02	90	61-132	YES
1,2-Dichloroethene (total)	40.00	41.71	104	80-120	YES
1,1-Dichloroethane	20.00	20.35	102	79-120	YES
di-Isopropyl Ether	20.00	19.60	98	71-124	YES
2-Chloro-1,3-Butadiene	20.00	20.35	102	73-136	YES
Ethyl t-Butyl Ether	20.00	19.13	96	76-120	YES
cis-1,2-Dichloroethene	20.00	20.88	104	80-120	YES
2-Butanone	150.00	144.18	96	64-166	YES
2,2-Dichloropropane	20.00	19.74	99	77-124	YES
Propionitrile	150.00	146.48	98	69-131	YES
Methacrylonitrile	150.00	142.83	95	80-120	YES
Bromochloromethane	20.00	22.30	111	80-120	YES
Tetrahydrofuran	100.00	103.71	104	71-127	YES
Chloroform	20.00	21.13	106	77-122	YES
1,1,1-Trichloroethane	20.00	21.11	106	75-127	YES
Cyclohexane	20.00	18.85	94	65-125	YES
1,1-Dichloropropene	20.00	20.17	101	80-120	YES
Carbon Tetrachloride	20.00	20.74	104	75-123	YES
Isobutyl Alcohol	500.00	503.57	101	70-128	YES
Benzene	20.00	20.97	105	79-120	YES
1,2-Dichloroethane	20.00	20.03	100	70-130	YES
t-Amyl Methyl Ether	20.00	19.04	95	77-120	YES
n-Heptane	20.00	17.23	86	53-132	YES
n-Butanol	1000.00	976.96	98	63-120	YES
Trichloroethene	20.00	21.33	107	80-120	YES
Methylcyclohexane	20.00	21.28	106	71-132	YES
1,2-Dichloropropane	20.00	20.69	103	78-120	YES
Dibromomethane	20.00	20.47	102	80-120	YES
Methyl Methacrylate	20.00	18.81	94	72-120	YES
1,4-Dioxane	500.00	520.15	104	51-129	YES
Bromodichloromethane	20.00	20.41	102	80-120	YES
2-Nitropropane	20.00	15.51	78	56-127	YES
2-Chloroethyl Vinyl Ether	20.00	20.03	100	74-121	YES
cis-1,3-Dichloropropene	20.00	20.61	103	80-120	YES
4-Methyl-2-Pentanone	100.00	92.74	93	70-121	YES

N/C = Could not calculate

Lab Chronicle: _____ Ent. by PTL#3 8855

_____ Ver. by _____

Lancaster Laboratories, Inc.
GC/MS Volatiles Laboratory Control Sample Recovery

File: lc07l02.d
Inst: HP09915
Dilution Factor: 1.0

Injected: 10/07/09 at 18:23
Sample: LCSL28

Method: SW-846 8260B
Matrix/Level: WL
Batch: L092802AA

COMPOUND NAME	SPIKE LEVEL	LCS CONC UG/L	LCS REC %	Range LOWER-UPPER	INSPEC
Toluene	20.00	21.38	107	79-120	YES
trans-1,3-Dichloropropene	20.00	19.99	100	79-120	YES
Ethyl Methacrylate	20.00	20.05	100	70-120	YES
1,1,2-Trichloroethane	20.00	21.06	105	80-120	YES
Tetrachloroethene	20.00	22.19	111	80-121	YES
1,3-Dichloropropane	20.00	20.46	102	80-120	YES
2-Hexanone	100.00	89.29	89	65-136	YES
Dibromochloromethane	20.00	20.37	102	80-120	YES
1,2-Dibromoethane	20.00	20.50	103	80-120	YES
Chlorobenzene	20.00	21.91	110	80-120	YES
1,1,1,2-Tetrachloroethane	20.00	20.96	105	80-120	YES
Ethylbenzene	20.00	21.45	107	79-120	YES
m+p-Xylene	40.00	44.08	110	80-120	YES
Xylene (Total)	60.00	66.09	110	80-120	YES
o-Xylene	20.00	22.02	110	80-120	YES
Styrene	20.00	22.29	111	80-120	YES
Bromoform	20.00	19.79	99	61-120	YES
Isopropylbenzene	20.00	20.92	105	77-120	YES
Cyclohexanone	500.00	498.28	100	54-128	YES
1,1,2,2-Tetrachloroethane	20.00	20.11	101	71-117	YES
Bromobenzene	20.00	22.30	111	80-120	YES
1,2,3-Trichloropropane	20.00	19.55	98	80-120	YES
trans-1,4-Dichloro-2-Butene	100.00	89.16	89	58-123	YES
n-Propylbenzene	20.00	22.08	110	80-120	YES
2-Chlorotoluene	20.00	21.77	109	80-120	YES
1,3,5-Trimethylbenzene	20.00	21.85	109	75-120	YES
4-Chlorotoluene	20.00	22.25	111	80-120	YES
tert-Butylbenzene	20.00	21.65	108	80-120	YES
Pentachloroethane	20.00	20.90	104	76-120	YES
1,2,4-Trimethylbenzene	20.00	21.41	107	74-120	YES
sec-Butylbenzene	20.00	21.53	108	78-120	YES
1,3-Dichlorobenzene	20.00	22.16	111	80-120	YES
p-Isopropyltoluene	20.00	21.77	109	80-120	YES
1,4-Dichlorobenzene	20.00	21.96	110	80-120	YES
1,2,3-Trimethylbenzene	20.00	20.72	104	80-120	YES
Benzyl Chloride	20.00	18.81	94	69-120	YES
1,3-Diethylbenzene	20.00	20.37	102	80-120	YES
1,4-Diethylbenzene	20.00	20.49	102	77-120	YES
n-Butylbenzene	20.00	20.75	104	74-120	YES
1,2-Dichlorobenzene	20.00	21.54	108	80-120	YES
1,2-Diethylbenzene	20.00	20.55	103	80-120	YES
1,2-Dibromo-3-Chloropropane	20.00	17.10	86	66-120	YES
1,2,4-Trichlorobenzene	20.00	20.29	101	67-120	YES
Hexachlorobutadiene	20.00	19.93	100	58-120	YES
Naphthalene	20.00	19.31	97	62-120	YES
1,2,3-Trichlorobenzene	20.00	20.24	101	65-120	YES
2-Methylnaphthalene	20.00	15.61	78	36-120	YES
Diethylbenzene (total)	60.00	61.40	102	80-120	YES

N/C = Could not calculate PTL03 8056

Lab Chronicle: _____ Ent. by _____

_____ Ver. by _____

Lancaster Laboratories, Inc.
GC/MS Volatiles Laboratory Control Sample Recovery

File: lc09l05.d
Inst: HP09915
Dilution Factor: 1.0

Injected: 10/09/09 at 19:17
Sample: LCSL31

Method: SW-846 8260B
Matrix/Level: WL
Batch: L092822AA

COMPOUND NAME	SPIKE LEVEL	LCS CONC UG/L	LCS REC %	Range LOWER-UPPER	INSPEC
Dichlorodifluoromethane	20.00	15.32	77	54-152	YES
Chloromethane	20.00	20.68	103	60-129	YES
Vinyl Chloride	20.00	21.47	107	59-120	YES
Bromomethane	20.00	13.24	66	40-137	YES
Chloroethane	20.00	13.42	67	49-129	YES
Trichlorofluoromethane	20.00	20.70	104	64-129	YES
Ethyl Ether	20.00	31.70	159	23-144	NO
Acrolein	150.00	180.38	120	43-135	YES
1,1-Dichloroethene	20.00	21.05	105	74-123	YES
Freon 113	20.00	19.42	97	69-128	YES
Acetone	150.00	187.08	125	49-234	YES
2-Propanol	150.00	157.45	105	67-122	YES
Methyl Iodide	20.00	18.46	92	71-122	YES
Carbon Disulfide	20.00	17.38	87	71-120	YES
Allyl Chloride	20.00	20.98	105	65-140	YES
Methyl Acetate	20.00	21.16	106	73-139	YES
Methylene Chloride	20.00	19.52	98	80-120	YES
t-Butyl Alcohol	200.00	206.54	103	73-120	YES
Acrylonitrile	100.00	104.07	104	67-120	YES
trans-1,2-Dichloroethene	20.00	19.65	98	80-120	YES
Methyl Tertiary Butyl Ether	20.00	18.96	95	76-120	YES
n-Hexane	20.00	17.69	88	61-132	YES
1,2-Dichloroethene (total)	40.00	39.62	99	80-120	YES
1,1-Dichloroethane	20.00	19.89	99	79-120	YES
di-Isopropyl Ether	20.00	20.07	100	71-124	YES
2-Chloro-1,3-Butadiene	20.00	19.79	99	73-136	YES
Ethyl t-Butyl Ether	20.00	19.36	97	76-120	YES
cis-1,2-Dichloroethene	20.00	19.96	100	80-120	YES
2-Butanone	150.00	160.29	107	64-166	YES
2,2-Dichloropropane	20.00	19.38	97	77-124	YES
Propionitrile	150.00	163.90	109	69-131	YES
Methacrylonitrile	150.00	153.27	102	80-120	YES
Bromochloromethane	20.00	21.19	106	80-120	YES
Tetrahydrofuran	100.00	116.50	116	71-127	YES
Chloroform	20.00	20.52	103	77-122	YES
1,1,1-Trichloroethane	20.00	20.61	103	75-127	YES
Cyclohexane	20.00	18.33	92	65-125	YES
1,1-Dichloropropene	20.00	19.37	97	80-120	YES
Carbon Tetrachloride	20.00	19.42	97	75-123	YES
Isobutyl Alcohol	500.00	547.03	109	70-128	YES
Benzene	20.00	20.14	101	79-120	YES
1,2-Dichloroethane	20.00	21.00	105	70-130	YES
t-Amyl Methyl Ether	20.00	19.34	97	77-120	YES
n-Heptane	20.00	18.18	91	53-132	YES
n-Butanol	1000.00	1022.86	102	63-120	YES
Trichloroethene	20.00	21.83	109	80-120	YES
Methylcyclohexane	20.00	20.29	101	71-132	YES
1,2-Dichloropropane	20.00	20.02	100	78-120	YES
Dibromomethane	20.00	20.40	102	80-120	YES
Methyl Methacrylate	20.00	19.00	95	72-120	YES
1,4-Dioxane	500.00	521.56	104	51-129	YES
Bromodichloromethane	20.00	19.76	99	80-120	YES
2-Nitropropane	20.00	20.03	100	56-127	YES
2-Chloroethyl Vinyl Ether	20.00	20.30	102	74-121	YES
cis-1,3-Dichloropropene	20.00	19.77	99	80-120	YES
4-Methyl-2-Pentanone	100.00	103.54	104	70-121	YES
Toluene	20.00	20.06	100	79-120	YES
trans-1,3-Dichloropropene	20.00	19.52	98	79-120	YES

N/C = Could not calculate

Lab Chronicle: _____ Ent. by PTL83 8857

_____ Ver. by _____

Lancaster Laboratories, Inc.
GC/MS Volatiles Laboratory Control Sample Recovery

File: lc09l05.d
Inst: HP09915
Dilution Factor: 1.0

Injected: 10/09/09 at 19:17
Sample: LCSL31

Method: SW-846 8260B
Matrix/Level: WL
Batch: L092822AA

COMPOUND NAME	SPIKE LEVEL	LCS CONC UG/L	LCS REC %	Range LOWER-UPPER	INSPEC
Ethyl Methacrylate	20.00	19.82	99	70-120	YES
1,1,2-Trichloroethane	20.00	20.55	103	80-120	YES
Tetrachloroethene	20.00	24.74	124	80-121	NO
1,3-Dichloropropane	20.00	19.81	99	80-120	YES
2-Hexanone	100.00	102.35	102	65-136	YES
Dibromochloromethane	20.00	19.23	96	80-120	YES
1,2-Dibromoethane	20.00	19.67	98	80-120	YES
Chlorobenzene	20.00	20.67	103	80-120	YES
1,1,1,2-Tetrachloroethane	20.00	19.63	98	80-120	YES
Ethylbenzene	20.00	20.16	101	79-120	YES
m+p-Xylene	40.00	40.88	102	80-120	YES
Xylene (Total)	60.00	62.12	104	80-120	YES
o-Xylene	20.00	21.24	106	80-120	YES
Styrene	20.00	21.05	105	80-120	YES
Bromoform	20.00	19.52	98	61-120	YES
Isopropylbenzene	20.00	19.82	99	77-120	YES
Cyclohexanone	500.00	554.28	111	54-128	YES
1,1,2,2-Tetrachloroethane	20.00	18.57	93	71-117	YES
Bromobenzene	20.00	20.74	104	80-120	YES
1,2,3-Trichloropropane	20.00	20.42	102	80-120	YES
trans-1,4-Dichloro-2-Butene	100.00	97.49	97	58-123	YES
n-Propylbenzene	20.00	19.84	99	80-120	YES
2-Chlorotoluene	20.00	19.82	99	80-120	YES
1,3,5-Trimethylbenzene	20.00	20.07	100	75-120	YES
4-Chlorotoluene	20.00	20.20	101	80-120	YES
tert-Butylbenzene	20.00	19.61	98	80-120	YES
Pentachloroethane	20.00	15.89	79	76-120	YES
1,2,4-Trimethylbenzene	20.00	20.34	102	74-120	YES
sec-Butylbenzene	20.00	19.95	100	78-120	YES
1,3-Dichlorobenzene	20.00	20.87	104	80-120	YES
p-Isopropyltoluene	20.00	20.55	103	80-120	YES
1,4-Dichlorobenzene	20.00	20.68	103	80-120	YES
1,2,3-Trimethylbenzene	20.00	21.22	106	80-120	YES
Benzyl Chloride	20.00	19.20	96	69-120	YES
1,3-Diethylbenzene	20.00	20.97	105	80-120	YES
1,4-Diethylbenzene	20.00	21.54	108	77-120	YES
n-Butylbenzene	20.00	20.14	101	74-120	YES
1,2-Dichlorobenzene	20.00	20.73	104	80-120	YES
1,2-Diethylbenzene	20.00	21.09	105	80-120	YES
1,2-Dibromo-3-Chloropropane	20.00	18.80	94	66-120	YES
1,2,4-Trichlorobenzene	20.00	19.73	99	67-120	YES
Hexachlorobutadiene	20.00	17.03	85	58-120	YES
Naphthalene	20.00	19.37	97	62-120	YES
1,2,3-Trichlorobenzene	20.00	19.64	98	65-120	YES
2-Methylnaphthalene	20.00	16.24	81	36-120	YES
Diethylbenzene (total)	60.00	63.59	106	80-120	YES

N/C = Could not calculate PTL83.0058

Lab Chronicle: _____ Ent. by _____

_____ Ver. by _____

Lancaster Laboratories, Inc.
GC/MS Volatiles Laboratory Control Sample Recovery

File: lc12l02.d
Inst: HP09915
Dilution Factor: 1.0

Injected: 10/12/09 at 19:23
Sample: LCS6L33

Method: SW-846 8260B
Matrix/Level: WL
Batch: L092851AA

COMPOUND NAME	SPIKE LEVEL	LCS CONC UG/L	LCS REC %	Range LOWER-UPPER	INSPEC
Allyl Chloride	20.00	22.26	111	65-140	YES
Methyl Acetate	20.00	20.57	103	73-139	YES
Bromochloromethane	20.00	20.78	104	80-120	YES
Methylcyclohexane	20.00	21.07	105	71-132	YES
Pentachloroethane	20.00	3.15	16	76-120	NO
1,2,3-Trimethylbenzene	20.00	20.38	102	80-120	YES
1,3-Diethylbenzene	20.00	20.82	104	80-120	YES
1,4-Diethylbenzene	20.00	20.72	104	77-120	YES
1,2-Diethylbenzene	20.00	20.89	104	80-120	YES
2-Methylnaphthalene	20.00	12.42	62	36-120	YES
Diethylbenzene (total)	60.00	62.43	104	80-120	YES

N/C = Could not calculate

Lab Chronicle: _____ Ent. by PTL03 0059

_____ Ver. by _____

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: lc07b03.d Lab Sample ID: VBLKL28

Date Analyzed: 10/07/09 Time Analyzed: 17:30

Matrix (soil/water) WATER Level: (low/med) LOW

Instrument ID: HP09915

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCSL28	LCSL28	lc07102.d	18:23
02	PATB1	5796214	lc07s31.d	20:50
03	PAEB2	5796206	lc07s32.d	21:12
~~04~~	~~20602DL~~	~~5797139~~	~~lc07s37.d~~	~~23:01~~
~~05~~	~~20902DL~~	~~5797140~~	~~lc07s38.d~~	~~23:23~~ NV
06	PA19D	5796209	lc07s39.d	23:45
07	PA19DMS	5796210	lc07s40.d	00:07
08	PA19DMSD	5796211	lc07s41.d	00:29
09	PA20S	5796212	lc07s42.d	00:51
10	PA20D	5796213	lc07s43.d	01:12
11	PAFD2	5796207	lc07s44.d	01:34
12	CAV32	5793156	lc07s45.d	01:56
13	J56S-	5794882	lc07s46.d	02:18
14	EBB08	5794771	lc07s48.d	03:01
15	EBB08DL	5794771	lc07s49.d	03:23

SMG 3/02 10/22/09 (3)

COMMENTS: L092802AA

PTL83 8868

FORM IV VOA

VOLATILE METHOD BLANK SUMMARY

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: lc09b05.d Lab Sample ID: VBLKL31

Date Analyzed: 10/09/09 Time Analyzed: 18:55

Matrix (soil/water) WATER Level: (low/med) LOW

Instrument ID: HP09915

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCSL31	LCSL31	lc09l05.d	19:17
02	PATEB	5796196	lc09s51.d	19:56
03	MW20-	5798475	lc09s52.d	20:18
04	MW20-MS	5798476	lc09s53.d	20:40
05	MW20-MSD	5798477	lc09s54.d	21:02
06	DUP10	5798479	lc09s55.d	21:45
07	MW27-	5798481	lc09s56.d	22:07
08	OW03-	5798483	lc09s57.d	22:29
09	MW33-	5798484	lc09s58.d	22:51
10	PATP7	5796197	lc09s59.d	23:13
11	PAP7A	5796198	lc09s60.d	23:35
12	PA10A	5796199	lc09s61.d	23:56
13	PATD1	5796201	lc09s63.d	00:40
14	PA16S	5796202	lc09s64.d	01:02
15	PA17D	5796203	lc09s65.d	01:23
16	PA18S	5796204	lc09s66.d	01:45
17	PA18D	5796205	lc09s67.d	02:07
18	PA19S	5796208	lc09s68.d	02:29
19	MW26-	5798480	lc09s69.d	02:51
20	MW31-	5798485	lc09s71.d	03:35
21	MW31-DL	5798485	lc09s72.d	03:56
22	OW01-	5798474	lc09s73.d	04:18
23	OW01-DL	5798474	lc09s74.d	04:40

COMMENTS: L092822AA

PTL03 0061

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: lc12b01.d Lab Sample ID: VBLKL33

Date Analyzed: 10/12/09 Time Analyzed: 18:39

Matrix (soil/water) WATER Level: (low/med) LOW

Instrument ID: HP09915

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	LCSL33	LCSL33	lc12l01.d	19:01
02	LCS6L33	LCS6L33	lc12l02.d	19:23
03	PA15D	5796200	lc12s01.d	20:01
04	PA10ADL	5796199	lc12s02.d	20:22
05	MW26-DL	5798480	lc12s03.d	20:44
06	R1Z15	5794959	lc12s04.d	21:06
07	R1Z15MS	5794960	lc12s05.d	21:27
08	R1Z15MSD	5794961	lc12s06.d	21:49
09	R1Z16	5794962	lc12s07.d	22:11
10	MW-4I	5794963	lc12s08.d	22:33
11	--13D	5794964	lc12s09.d	22:55
12	---9I	5794965	lc12s10.d	23:16
13	---5S	5794966	lc12s11.d	23:38
14	RS--D	5794967	lc12s12.d	00:00
15	17U01	5798769	lc12s13.d	00:21
16	14U01	5798770	lc12s14.d	00:43
17	JC-TB	5798771	lc12s15.d	01:05
18	14U02	5798772	lc12s16.d	01:26
19	14B01	5798773	lc12s17.d	01:48
20	DUPE3	5798774	lc12s18.d	02:10
21	14B02	5798775	lc12s19.d	02:32
22	15U01	5798776	lc12s20.d	02:53
23	15U02	5798777	lc12s21.d	03:15
24	12B01	5798778	lc12s22.d	03:37

COMMENTS: L0928~~4~~5 1AA ③ 10/28/09

PTL83 0862

FORM IV VOA

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: ls29t05.d BFB Injection Date: 09/29/09

Instrument ID: HP09915 BFB Injection Time: 21:18

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.5
75	30.0 - 60.0% of mass 95	49.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.8 (0.9)1
174	Greater than 50.0% of mass 95	85.0
175	5.0 - 9.0% of mass 174	6.4 (7.5)1
176	Greater than 95.0%, but less than 101.0% of mass 174	83.5 (98.2)1
177	5.0 - 9.0% of mass 176	5.6 (6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD300	VSTD300	ls29i01.d	09/29/09	21:39
02	VSTD100	VSTD100	ls29i02.d	09/29/09	22:01
03	VSTD050	VSTD050	ls29i03.d	09/29/09	22:23
04	VSTD020	VSTD020	ls29i04.d	09/29/09	22:45
05	VSTD010	VSTD010	ls29i05.d	09/29/09	23:07
06	VSTD004	VSTD004	ls29i06.d	09/29/09	23:29
07	1PPBMDL	1PPBMDL	ls29m01.d	09/29/09	23:50
08	LICV	LICV	ls29cv2.d	09/30/09	04:07

PTL03 0063

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: lc07t07.d BFB Injection Date: 10/07/09

Instrument ID: HP09915 BFB Injection Time: 16:47

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.7
75	30.0 - 60.0% of mass 95	49.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.8 (0.9)1
174	Greater than 50.0% of mass 95	90.4
175	5.0 - 9.0% of mass 174	6.2 (6.8)1
176	Greater than 95.0%, but less than 101.0% of mass 174	87.2 (96.5)1
177	5.0 - 9.0% of mass 176	5.7 (6.5)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	lc07c02.d	10/07/09	17:08
02	VBLKL28	VBLKL28	lc07b03.d	10/07/09	17:30
03	LCSL28	LCSL28	lc07l02.d	10/07/09	18:23
04	PATB1	5796214	lc07s31.d	10/07/09	20:50
05	PAEB2	5796206	lc07s32.d	10/07/09	21:12
~~06~~	~~20602DL~~	~~5797139~~	~~lc07s37.d~~	~~10/07/09~~	~~23:01~~
~~07~~	~~20902DL~~	~~5797140~~	~~lc07s38.d~~	~~10/07/09~~	~~23:23~~ NU
08	PA19D	5796209	lc07s39.d	10/07/09	23:45
09	PA19DMS	5796210	lc07s40.d	10/08/09	00:07
10	PA19DMSD	5796211	lc07s41.d	10/08/09	00:29
11	PA20S	5796212	lc07s42.d	10/08/09	00:51
12	PA20D	5796213	lc07s43.d	10/08/09	01:12
13	PAFD2	5796207	lc07s44.d	10/08/09	01:34
14	CAV32	5793156	lc07s45.d	10/08/09	01:56
15	J56S-	5794882	lc07s46.d	10/08/09	02:18
16	EBB08	5794771	lc07s48.d	10/08/09	03:01
17	EBB08DL	5794771	lc07s49.d	10/08/09	03:23

Smg3rd 10/22/09

PTL03 #864

FORM V VOA

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: lc08t01.d BFB Injection Date: 10/08/09

Instrument ID: HP09915 BFB Injection Time: 16:42

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.2
75	30.0 - 60.0% of mass 95	46.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.8 (0.9)1
174	Greater than 50.0% of mass 95	85.6
175	5.0 - 9.0% of mass 174	6.1 (7.1)1
176	Greater than 95.0%, but less than 101.0% of mass 174	82.5 (96.4)1
177	5.0 - 9.0% of mass 176	5.2 (6.3)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD300	VSTD300	lc08i01.d	10/08/09	17:10
02	VSTD100	VSTD100	lc08i02.d	10/08/09	17:31
03	VSTD050	VSTD050	lc08i03.d	10/08/09	17:53
04	VSTD020	VSTD020	lc08i04.d	10/08/09	18:15
05	VSTD010	VSTD010	lc08i05.d	10/08/09	18:37
06	VSTD004	VSTD004	lc08i06.d	10/08/09	18:59
07	1PPBMDL	1PPBMDL	lc08m01.d	10/08/09	19:20
08	LCSL01	LCSL01	lc08v01.d	10/08/09	19:42

PTL03 0865

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: lc09t02.d BFB Injection Date: 10/09/09

Instrument ID: HP09915 BFB Injection Time: 17:50

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.3
75	30.0 - 60.0% of mass 95	49.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.8 (0.8)1
174	Greater than 50.0% of mass 95	89.5
175	5.0 - 9.0% of mass 174	6.5 (7.3)1
176	Greater than 95.0%, but less than 101.0% of mass 174	87.4 (97.7)1
177	5.0 - 9.0% of mass 176	6.5 (7.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	lc09c05.d	10/09/09	18:11
02	VBLKL31	VBLKL31	lc09b05.d	10/09/09	18:55
03	LCSL31	LCSL31	lc09l05.d	10/09/09	19:17
04	PATEB	5796196	lc09s51.d	10/09/09	19:56
05	MW20-	5798475	lc09s52.d	10/09/09	20:18
06	MW20-MS	5798476	lc09s53.d	10/09/09	20:40
07	MW20-MSD	5798477	lc09s54.d	10/09/09	21:02
08	DUP10	5798479	lc09s55.d	10/09/09	21:45
09	MW27-	5798481	lc09s56.d	10/09/09	22:07
10	OW03-	5798483	lc09s57.d	10/09/09	22:29
11	MW33-	5798484	lc09s58.d	10/09/09	22:51
12	PATP7	5796197	lc09s59.d	10/09/09	23:13
13	PAP7A	5796198	lc09s60.d	10/09/09	23:35
14	PA10A	5796199	lc09s61.d	10/09/09	23:56
15	PATD1	5796201	lc09s63.d	10/10/09	00:40
16	PA16S	5796202	lc09s64.d	10/10/09	01:02
17	PA17D	5796203	lc09s65.d	10/10/09	01:23
18	PA18S	5796204	lc09s66.d	10/10/09	01:45
19	PA18D	5796205	lc09s67.d	10/10/09	02:07
20	PA19S	5796208	lc09s68.d	10/10/09	02:29
21	MW26-	5798480	lc09s69.d	10/10/09	02:51
22	MW31-	5798485	lc09s71.d	10/10/09	03:35

PTL83 0866

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: lc09t02.d BFB Injection Date: 10/09/09

Instrument ID: HP09915 BFB Injection Time: 17:50

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.3
75	30.0 - 60.0% of mass 95	49.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.8 (0.8)1
174	Greater than 50.0% of mass 95	89.5
175	5.0 - 9.0% of mass 174	6.5 (7.3)1
176	Greater than 95.0%, but less than 101.0% of mass 174	87.4 (97.7)1
177	5.0 - 9.0% of mass 176	6.5 (7.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
23	MW31-DL	5798485	lc09s72.d	10/10/09	03:56
24	OW01-	5798474	lc09s73.d	10/10/09	04:18
25	OW01-DL	5798474	lc09s74.d	10/10/09	04:40

PTL83 8867

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: lc12t01.d BFB Injection Date: 10/12/09

Instrument ID: HP09915 BFB Injection Time: 17:19

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.3
75	30.0 - 60.0% of mass 95	46.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.6 (0.8)1
174	Greater than 50.0% of mass 95	84.5
175	5.0 - 9.0% of mass 174	6.5 (7.7)1
176	Greater than 95.0%, but less than 101.0% of mass 174	83.9 (99.3)1
177	5.0 - 9.0% of mass 176	5.4 (6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	lc12c01.d	10/12/09	17:56
02	VSTD050	VSTD050	lc12c02.d	10/12/09	18:17
03	VBLKL33	VBLKL33	lc12b01.d	10/12/09	18:39
04	LCSL33	LCSL33	lc12l01.d	10/12/09	19:01
05	LCS6L33	LCS6L33	lc12l02.d	10/12/09	19:23
06	PA15D	5796200	lc12s01.d	10/12/09	20:01
07	PA10ADL	5796199	lc12s02.d	10/12/09	20:22
08	MW26-DL	5798480	lc12s03.d	10/12/09	20:44
09	R1Z15	5794959	lc12s04.d	10/12/09	21:06
10	R1Z15MS	5794960	lc12s05.d	10/12/09	21:27
11	R1Z15MSD	5794961	lc12s06.d	10/12/09	21:49
12	R1Z16	5794962	lc12s07.d	10/12/09	22:11
13	MW-4I	5794963	lc12s08.d	10/12/09	22:33
14	--13D	5794964	lc12s09.d	10/12/09	22:55
15	---9I	5794965	lc12s10.d	10/12/09	23:16
16	---5S	5794966	lc12s11.d	10/12/09	23:38
17	RS--D	5794967	lc12s12.d	10/13/09	00:00
18	17U01	5798769	lc12s13.d	10/13/09	00:21
19	14U01	5798770	lc12s14.d	10/13/09	00:43
20	JC-TB	5798771	lc12s15.d	10/13/09	01:05
21	14U02	5798772	lc12s16.d	10/13/09	01:26
22	14B01	5798773	lc12s17.d	10/13/09	01:48

PTL83 0068

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID: lc12t01.d BFB Injection Date: 10/12/09

Instrument ID: HP09915 BFB Injection Time: 17:19

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.3
75	30.0 - 60.0% of mass 95	46.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.6 (0.8)1
174	Greater than 50.0% of mass 95	84.5
175	5.0 - 9.0% of mass 174	6.5 (7.7)1
176	Greater than 95.0%, but less than 101.0% of mass 174	83.9 (99.3)1
177	5.0 - 9.0% of mass 176	5.4 (6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
23	DUPE3	5798774	lc12s18.d	10/13/09	02:10
24	14B02	5798775	lc12s19.d	10/13/09	02:32
25	15U01	5798776	lc12s20.d	10/13/09	02:53
26	15U02	5798777	lc12s21.d	10/13/09	03:15
27	12B01	5798778	lc12s22.d	10/13/09	03:37

PTL83 0869

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): lc07c02.d Date Analyzed: 10/07/09

Instrument ID: HP09915 Time Analyzed: 17:08

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

		IS1(TBA)		IS2(FBZ)		IS3(CBZ)		IS4(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	223320	3.838	1127848	7.305	836220	10.874	486213	12.767
	UPPER LIMIT	446640	4.338	2255696	7.805	1672440	11.374	972426	13.267
	LOWER LIMIT	111660	3.338	563924	6.805	418110	10.374	243106	12.267
	EPA SAMPLE NO.								
01	VBLKL28	211729	3.842	1133576	7.305	839756	10.870	467085	12.767
02	LCSL28	208985	3.829	1109014	7.304	815549	10.873	462316	12.767
03	PATB1			1093950	7.301	803482	10.873	444523	12.767
04	PAEB2			1061541	7.308	789229	10.874	435046	12.767
~~05~~	~~20602DL~~			994201	7.311	746584	10.874	423387	12.767
~~06~~	~~20902DL~~			1000113	7.304	746208	10.874	416089	12.767
07	PA19D	178960	3.842	986875	7.311	734798	10.874	406426	12.767
08	PA19DMS	185707	3.848	1007953	7.308	750531	10.874	432789	12.767
09	PA19DMSD	192786	3.842	1039284	7.305	770836	10.874	420599	12.768
10	PA20S			1045153	7.305	770762	10.874	406784	12.767
11	PA20D			1034096	7.311	760911	10.874	420438	12.767
12	PAFD2			984443	7.311	738607	10.874	412274	12.767
13	CAV32			992773	7.305	738944	10.874	410480	12.767
14	J56S-			989579	7.311	733499	10.874	411784	12.767
15	EBB08			1231441	7.311	926703	10.877	515142	12.767
16	EBB08DL			1304658	7.305	957600	10.874	517412	12.767

NV

IS1 (TBA)=t-Butyl Alcohol-d10
IS2 (FBZ)=Fluorobenzene
IS3 (CBZ)=Chlorobenzene-d5
IS4 (DCB)=1,4-Dichlorobenzene-d4

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

PTL83 8878

Column used to flag values outside QC limits with an asterisk
* Values outside of QC limits.

FORM VIII VOA

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): lc09c05.d Date Analyzed: 10/09/09

Instrument ID: HP09915 Time Analyzed: 18:11

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

		IS1(TBA) AREA #	RT #	IS2(FBZ) AREA #	RT #	IS3(CBZ) AREA #	RT #	IS4(DCB) AREA #	RT #
	24 HOUR STD	211971	3.829	1084064	7.305	808171	10.870	457136	12.768
	UPPER LIMIT	423942	4.329	2168128	7.805	1616342	11.370	914272	13.268
	LOWER LIMIT	105986	3.329	542032	6.805	404086	10.370	228568	12.268
	EPA SAMPLE NO.								
01	VBLKL31	205161	3.835	1064092	7.311	787084	10.874	436417	12.767
02	LCSL31	201862	3.845	1041976	7.308	779164	10.874	450618	12.767
03	PATEB	216722	3.835	1068707	7.305	788179	10.874	435622	12.767
04	MW20-	200387	3.832	1038039	7.305	776102	10.874	431065	12.767
05	MW20-MS	202255	3.842	1058314	7.311	789159	10.874	454352	12.767
06	MW20-MSD	211635	3.848	1087222	7.308	806790	10.874	468969	12.767
07	DUP10			1058170	7.308	790235	10.874	437543	12.767
08	MW27-			1005217	7.308	748737	10.874	413976	12.767
09	OW03-			1023001	7.311	770782	10.874	425380	12.767
10	MW33-			1001316	7.304	754721	10.873	413134	12.767
11	PATP7	190739	3.848	987708	7.308	742010	10.874	406964	12.767
12	PAP7A	185048	3.842	982850	7.308	737164	10.874	404138	12.767
13	PA10A	183635	3.842	967274	7.308	730453	10.873	404428	12.767
14	PATD1	173627	3.842	925839	7.311	705304	10.874	390046	12.767
15	PA16S	176609	3.829	936771	7.308	708721	10.874	391446	12.767
16	PA17D	171925	3.832	905543	7.304	681697	10.874	382915	12.767
17	PA18S	173539	3.832	924374	7.311	694995	10.873	385764	12.767
18	PA18D	171806	3.842	907080	7.308	689972	10.874	382102	12.767
19	PA19S	168500	3.845	911319	7.311	690220	10.873	384645	12.767
20	MW26-			905222	7.311	681804	10.874	383709	12.767
21	MW31-			915538	7.304	688019	10.874	382167	12.767
22	MW31-DL			900415	7.308	675456	10.873	375704	12.767

IS1 (TBA)=t-Butyl Alcohol-d10
IS2 (FBZ)=Fluorobenzene
IS3 (CBZ)=Chlorobenzene-d5
IS4 (DCB)=1,4-Dichlorobenzene-d4

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

PTL03 0071

Column used to flag values outside QC limits with an asterisk
* Values outside of QC limits.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): lc09c05.d Date Analyzed: 10/09/09

Instrument ID: HP09915 Time Analyzed: 18:11

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

	IS1(TBA) AREA #	RT #	IS2(FBZ) AREA #	RT #	IS3(CBZ) AREA #	RT #	IS4(DCB) AREA #	RT #
24 HOUR STD	211971	3.829	1084064	7.305	808171	10.870	457136	12.768
UPPER LIMIT	423942	4.329	2168128	7.805	1616342	11.370	914272	13.268
LOWER LIMIT	105986	3.329	542032	6.805	404086	10.370	228568	12.268
EPA SAMPLE NO.								
23 OW01-			892211	7.311	669706	10.873	353328	12.767
24 OW01-DL			888823	7.305	672154	10.874	372047	12.767

IS1 (TBA)=t-Butyl Alcohol-d10
IS2 (FBZ)=Fluorobenzene
IS3 (CBZ)=Chlorobenzene-d5
IS4 (DCB)=1,4-Dichlorobenzene-d4

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

PTL83 0872

Column used to flag values outside QC limits with an asterisk
* Values outside of QC limits.

FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): lc12c01.d Date Analyzed: 10/12/09

Instrument ID: HP09915 Time Analyzed: 17:56

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

		IS1(TBA) AREA #	RT #	IS2(FBZ) AREA #	RT #	IS3(CBZ) AREA #	RT #	IS4(DCB) AREA #	RT #
	12 HOUR STD	248672	3.842	1241758	7.301	908828	10.874	525652	12.767
	UPPER LIMIT	497344	4.342	2483516	7.801	1817656	11.374	1051304	13.267
	LOWER LIMIT	124336	3.342	620879	6.801	454414	10.374	262826	12.267
	EPA SAMPLE NO.								
01	VBLKL33	244012	3.842	1208061	7.311	875100	10.874	483297	12.767
02	LCSL33	220569	3.845	1188952	7.305	864923	10.874	499934	12.768
03	LCS6L33	225765	3.845	1187593	7.305	865787	10.874	482840	12.767
04	PA15D	234934	3.826	1176519	7.301	852575	10.870	465694	12.767
05	PA10ADL	219124	3.842	1131607	7.304	827582	10.873	458357	12.767
06	MW26-DL			1109380	7.308	811103	10.873	443559	12.767
07	R1Z15	196808	3.842	1087299	7.308	797409	10.874	439104	12.767
08	R1Z15MS	197598	3.842	1092220	7.301	799653	10.873	461269	12.767
09	R1Z15MSD	216369	3.845	1126246	7.308	824656	10.874	478125	12.767
10	R1Z16	226876	3.832	1135224	7.308	822237	10.874	455770	12.767
11	MW-4I	208297	3.842	1088313	7.308	797694	10.874	444787	12.768
12	--13D	199823	3.845	1084816	7.304	789966	10.874	436359	12.767
13	---9I	195967	3.842	1075484	7.311	785479	10.874	431402	12.767
14	---5S	205536	3.835	1044862	7.311	772637	10.874	425941	12.767
15	RS--D	197959	3.845	1021200	7.311	755138	10.874	416236	12.767
16	17U01	188683	3.845	1005511	7.308	752037	10.877	411068	12.767
17	14U01	192107	3.842	998595	7.308	736954	10.873	405593	12.767
18	JC-TB	184532	3.842	977897	7.304	730664	10.873	400843	12.767
19	14U02	182579	3.845	965300	7.304	723148	10.873	399329	12.767
20	14B01	174696	3.835	954730	7.304	706210	10.870	387519	12.767
21	DUPE3	174906	3.845	946026	7.314	704344	10.874	366299	12.767
22	14B02	176827	3.848	928880	7.308	692162	10.873	382075	12.767

IS1 (TBA)=t-Butyl Alcohol-d10
IS2 (FBZ)=Fluorobenzene
IS3 (CBZ)=Chlorobenzene-d5
IS4 (DCB)=1,4-Dichlorobenzene-d4

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

PTL83 0873

Column used to flag values outside QC limits with an asterisk
* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Lab File ID (Standard): lc12c01.d Date Analyzed: 10/12/09

Instrument ID: HP09915 Time Analyzed: 17:56

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

		IS1(TBA)		IS2(FBZ)		IS3(CBZ)		IS4(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	248672	3.842	1241758	7.301	908828	10.874	525652	12.767
	UPPER LIMIT	497344	4.342	2483516	7.801	1817656	11.374	1051304	13.267
	LOWER LIMIT	124336	3.342	620879	6.801	454414	10.374	262826	12.267
	EPA SAMPLE NO.								
23	15U01	159106	3.835	915538	7.305	677509	10.874	373195	12.767
24	15U02	166553	3.835	919864	7.305	688035	10.874	379795	12.767
25	12B01	166697	3.842	913732	7.305	677970	10.874	375567	12.768

IS1 (TBA)=t-Butyl Alcohol-d10
IS2 (FBZ)=Fluorobenzene
IS3 (CBZ)=Chlorobenzene-d5
IS4 (DCB)=1,4-Dichlorobenzene-d4

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

PTL03 0074

Column used to flag values outside QC limits with an asterisk
* Values outside of QC limits.

Sample Data

EPA SW-846 8260B Water LOQ/MDL

	Compound Name	LOQ	MDL	Units
	Dichlorodifluoromethane	5	2	ug/l
	Chloromethane	5	1	ug/l
	Vinyl Chloride	5	1	ug/l
	Bromomethane	5	1	ug/l
	Chloroethane	5	1	ug/l
	Trichlorofluoromethane	5	2	ug/l
	1,1-Dichloroethene	5	0.8	ug/l
	Methylene Chloride	5	2	ug/l
	trans-1,2-Dichloroethene	5	0.8	ug/l
	1,1-Dichloroethane	5	1	ug/l
	2,2-Dichloropropane	5	1	ug/l
	cis-1,2-Dichloroethene	5	0.8	ug/l
	Chloroform	5	0.8	ug/l
	Bromochloromethane	5	1	ug/l
	1,1,1-Trichloroethane	5	0.8	ug/l
	Carbon Tetrachloride	5	1	ug/l
	1,1-Dichloropropene	5	1	ug/l
	Benzene	5	0.5	ug/l
	1,2-Dichloroethane	5	1	ug/l
	Trichloroethene	5	1	ug/l
	1,2-Dichloropropane	5	1	ug/l
	Dibromomethane	5	1	ug/l
	Bromodichloromethane	5	1	ug/l
	Toluene	5	0.7	ug/l
	1,1,2-Trichloroethane	5	0.8	ug/l
	Tetrachloroethene	5	0.8	ug/l
	1,3-Dichloropropane	5	1	ug/l
	Dibromochloromethane	5	1	ug/l
	1,2-Dibromoethane	5	1	ug/l
	Chlorobenzene	5	0.8	ug/l
	Acetone	20	6	ug/l
	Carbon Disulfide	5	1	ug/l
	2-Butanone	10	3	ug/l
	trans-1,3-Dichloropropene	5	1	ug/l
	cis-1,3-Dichloropropene	5	1	ug/l
	4-Methyl-2-pentanone	10	3	ug/l
	2-Hexanone	10	3	ug/l
	Xylene (Total)	5	0.8	ug/l
	Acrolein	100	40	ug/l
	1,1,1,2-Tetrachloroethane	5	1	ug/l
	Ethylbenzene	5	0.8	ug/l
	m+p-Xylene	5	0.8	ug/l
	o-Xylene	5	0.8	ug/l
	Styrene	5	1	ug/l
	Bromoform	5	1	ug/l
	Isopropylbenzene	5	1	ug/l
	1,1,2,2-Tetrachloroethane	5	1	ug/l
	Bromobenzene	5	1	ug/l
	1,2,3-Trichloropropane	5	1	ug/l

PTL03 0076

EPA SW-846 8260B Water LOQ/MDL

	Compound Name	LOQ	MDL	Units
	n-Propylbenzene	5	1	ug/l
	2-Chlorotoluene	5	1	ug/l
	1,3,5-Trimethylbenzene	5	1	ug/l
	4-Chlorotoluene	5	1	ug/l
	tert-Butylbenzene	5	1	ug/l
	1,2,4-Trimethylbenzene	5	1	ug/l
	sec-Butylbenzene	5	1	ug/l
	p-Isopropyltoluene	5	1	ug/l
	1,3-Dichlorobenzene	5	1	ug/l
	1,4-Dichlorobenzene	5	1	ug/l
	n-Butylbenzene	5	1	ug/l
	1,2-Dichlorobenzene	5	1	ug/l
	1,2-Dibromo-3-chloropropane	5	2	ug/l
	1,2,4-Trichlorobenzene	5	1	ug/l
	Hexachlorobutadiene	5	2	ug/l
	Naphthalene	5	1	ug/l
	1,2,3-Trichlorobenzene	5	1	ug/l
	Methyl Iodide	5	1	ug/l
	Acrylonitrile	20	4	ug/l
	trans-1,4-Dichloro-2-butene	50	15	ug/l
	Allyl Chloride	5	1	ug/l
	2-Chloro-1,3-butadiene	5	1	ug/l
	Propionitrile	100	30	ug/l
	Methacrylonitrile	50	10	ug/l
	Isobutyl Alcohol	250	100	ug/l
	1,4-Dioxane	250	70	ug/l
	Pentachloroethane	5	1	ug/l
	Methyl t-butyl ether	5	0.5	ug/l
	di-Isopropyl ether	5	0.8	ug/l
	Ethyl t-butyl ether	5	0.8	ug/l
	t-Amyl methyl ether	5	0.8	ug/l
	t-Butyl alcohol	100	10	ug/l
	Ethyl ether	5	2	ug/l
	Tetrahydrofuran	10	4	ug/l
	2-Propanol	100	50	ug/l
	n-Hexane	5	2	ug/l
	Cyclohexane	5	2	ug/l
	n-Heptane	5	2	ug/l
	n-Butanol	250	100	ug/l
	Methyl Methacrylate	5	1	ug/l
	Ethyl Methacrylate	5	1	ug/l
	2-Chloroethyl Vinyl Ether	10	2	ug/l
	Freon 113	10	2	ug/l

EPA SW-846 8260B Water LOQ/MDL

	Compound Name	LOQ	MDL	Units
	Vinyl Acetate	10	2	ug/l
	Acetonitrile	100	25	ug/l
	Ethyl Acetate	5	1	ug/l
	2-Methylnaphthalene	5	2	ug/l
	1,3-Diethylbenzene	5	1	ug/l
	1,4-Diethylbenzene	5	1	ug/l
	1,2-Diethylbenzene	5	1	ug/l
	n-Pentane	10	2	ug/l
	Isopropyl Acetate	5	1	ug/l
	n-Propyl Acetate	5	1	ug/l
	Butyl Acetate	10	2	ug/l

PATEB

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796196

File: /chem/HP09915.i/09oct09b.b/lc09s51.d
Sample: PATEB;5796196;1;0;;;;;;;
Injected At:09-OCT-2009 19:56
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.835(-0.006)	701	65	216722(2)	250.00	
72) Fluorobenzene	7.305(0.000)	1780	96	1068707(-1)	50.00	
104) Chlorobenzene-d5	10.874(-0.003)	2890	117	788179(-2)	50.00	
137) 1,4-Dichlorobenzene-d4	12.767(0.000)	3479	152	435622(-5)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.375(-0.001)	113	259837	47.497	95%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.835(0.000)	102	62388	47.226	94%		77 - 113
91) Toluene-d8	(2)	9.375(0.000)	98	1060052	48.249	96%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.883(0.000)	95	372406	47.782	96%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
8) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
19) 1,1-Dichloroethene	(1)				ND	ND			0.80	5.00
21) Acetone	(1)				ND	ND			6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
36) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
45) 2-Butanone	(1)				ND	ND			3.00	10.00
46) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
51) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)	6.147(0.000)	83	11660	1.227	1.23		J	0.80	5.00
57) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
61) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
62) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0079

PATEB

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5796196

File: /chem/HP09915.i/09oct09b.b/lc09s51.d
Sample: PATEB;5796196;1;0;;;;;;
Injected At:09-OCT-2009 19:56
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
80) Dibromomethane	(1)					ND	ND			1.00	5.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
107) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
108) Ethylbenzene	(2)					ND	ND			0.80	5.00
109) m+p-Xylene	(2)					ND	ND			0.80	5.00
111) o-Xylene	(2)					ND	ND			0.80	5.00
112) Styrene	(2)					ND	ND			1.00	5.00
113) Bromoform	(2)					ND	ND			1.00	5.00
115) Isopropylbenzene	(2)					ND	ND			1.00	5.00
120) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0000

PATEB

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5796196

File: /chem/HP09915.i/09oct09b.b/lc09s51.d
Sample: PATEB;5796196;1;0;;;;;;;
Injected At:09-OCT-2009 19:56
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
143) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
147) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
148) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
149) Naphthalene	(3)					ND	ND			1.00	5.00
150) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

Analyst: KDP02245 Date: 10/9/09

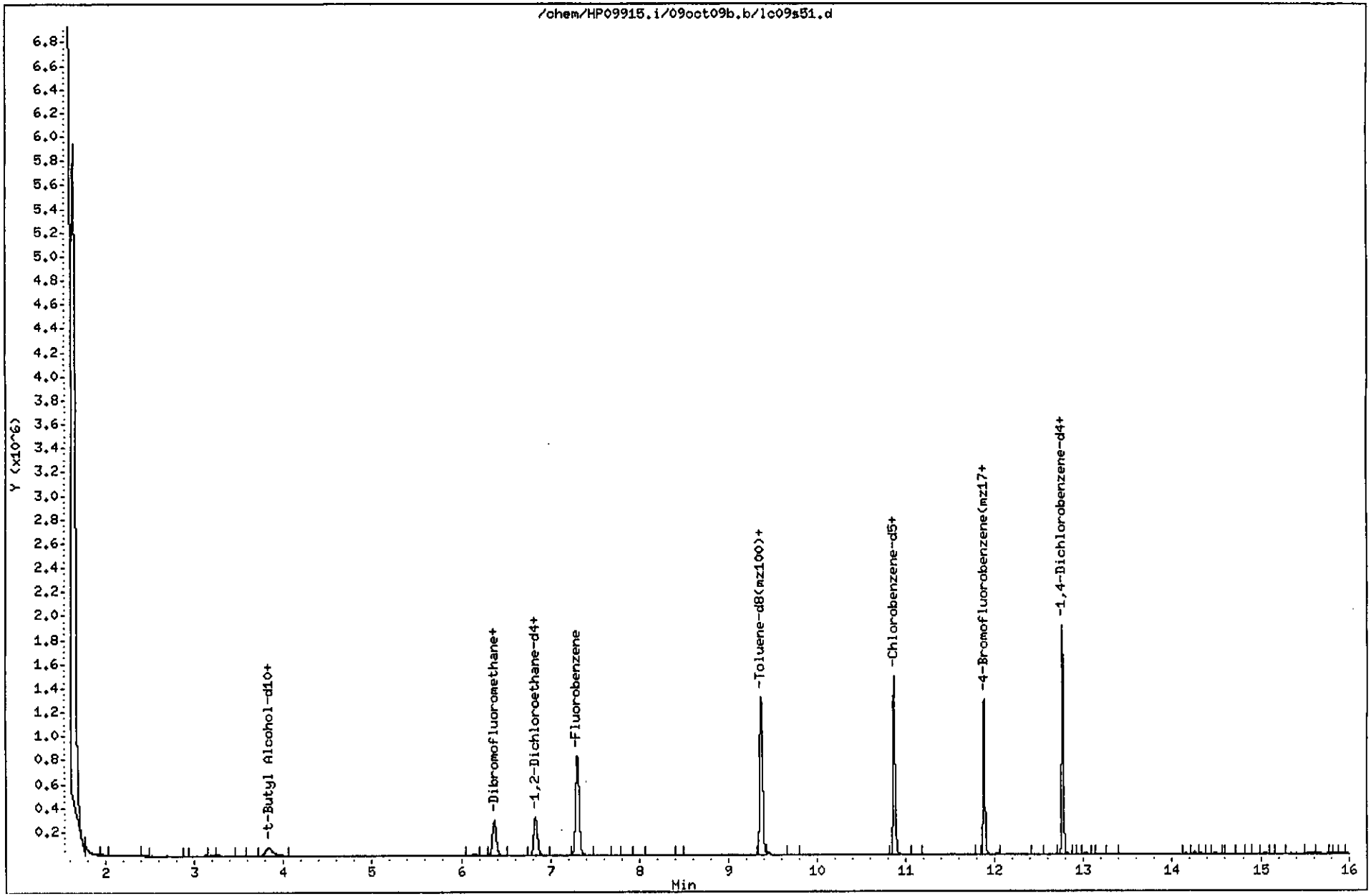
Auditor: Date: 10/14/09

PTLB3 0001

Data File: /chem/HP09915.i/09oct09b.b/lc09s51.d
Date : 09-OCT-2009 19:56
Client ID: PATEB
Sample Info: PATEB;5796196;1;0;;;;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: KDP02245
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct09b.b/lc09s51.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 19:56 Analyst ID: KDP02245

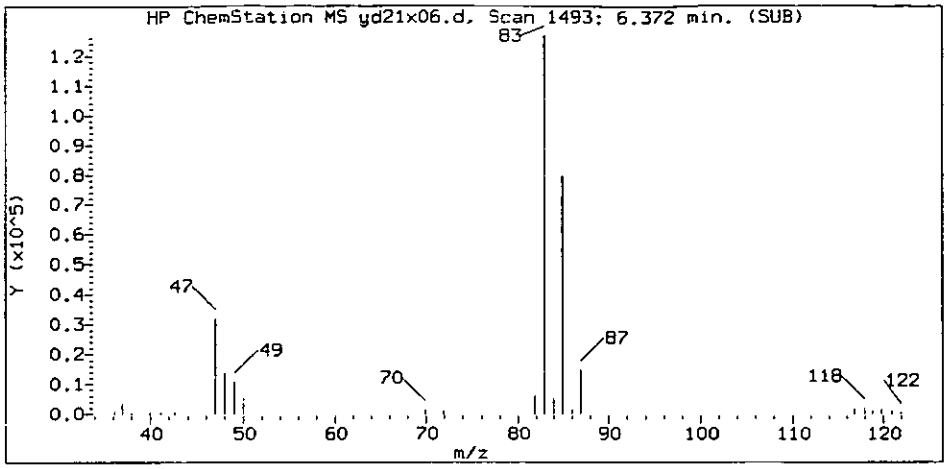
Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: MWH
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 09-Oct-2009 20:24 kdp02245

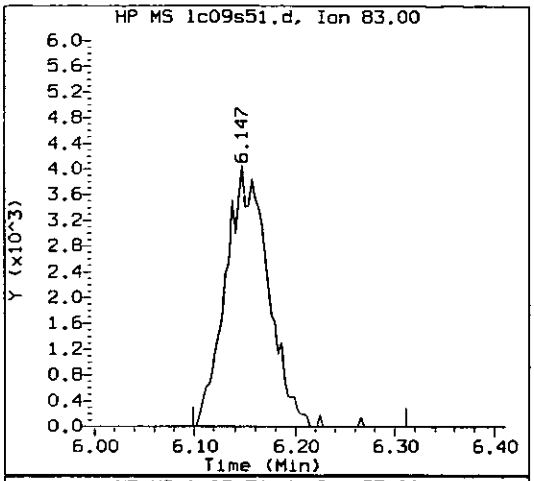
Sample Name: PATEB Lab Sample ID: 5796196

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
30)*t-Butyl Alcohol-d10	(4)	3.835	65	216722	250.000
53) Chloroform	(1)	6.147	83	11660	1.227
72)*Fluorobenzene	(1)	7.305	96	1068707	50.000
104)*Chlorobenzene-d5	(2)	10.874	117	788179	50.000
137)*1,4-Dichlorobenzene-d4	(3)	12.767	152	435622	50.000
54)$Dibromofluoromethane	(1)	6.375	113	259837	47.497
64)$1,2-Dichloroethane-d4	(1)	6.835	102	62388	47.226
91)$Toluene-d8	(2)	9.375	98	1060052	48.249
119)$4-Bromofluorobenzene	(2)	11.883	95	372406	47.782

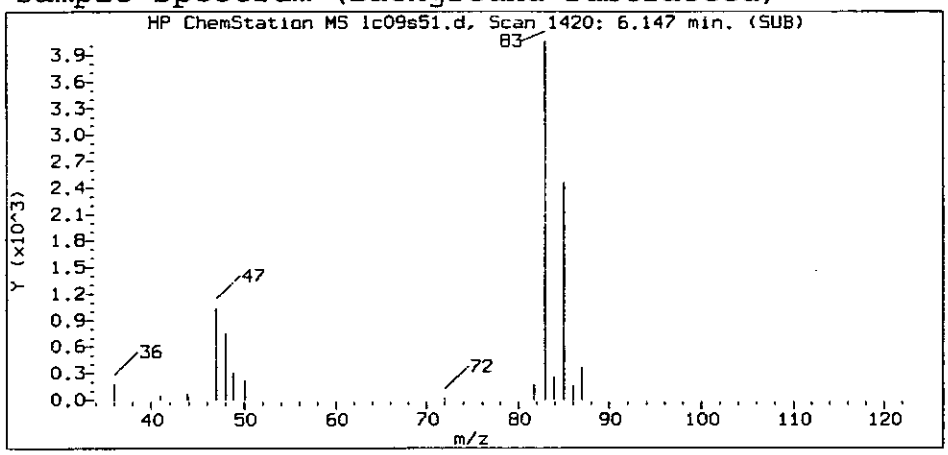
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

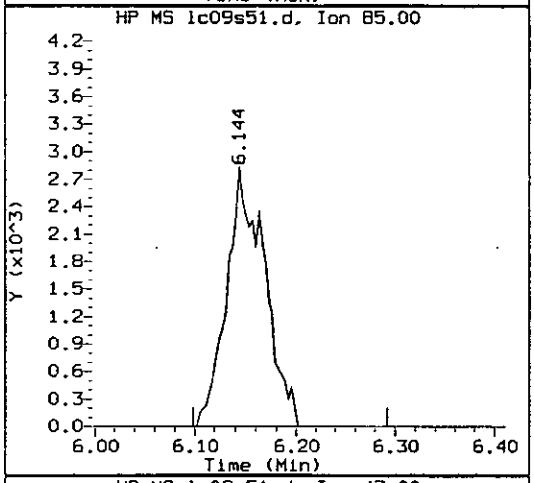
Reference Standard Spectrum for Chloroform



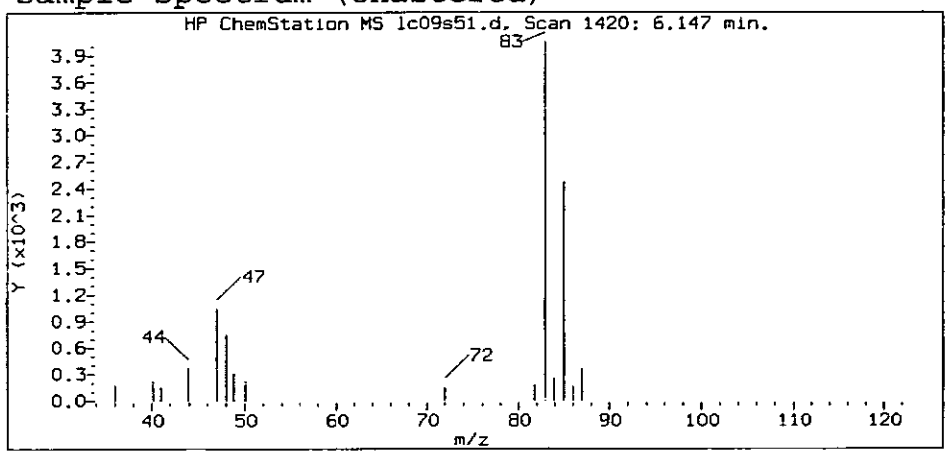


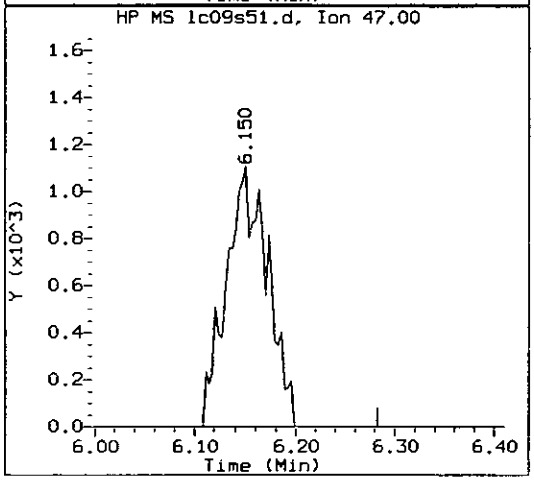
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09915.i/09oct09b.b/lc09s51.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 19:56 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: MWH
Calibration date and time: 09-OCT-2009 20:24
Date, time and analyst ID of latest file update: 09-Oct-2009 20:24 kdp02245

Sample Name: PATEB Lab Sample ID: 5796196

Compound Number	: 53
Compound Name	: Chloroform
Scan Number	: 1420
Retention Time (minutes)	: 6.147
Quant Ion	: 83.0
Area (flag)	: 11660
Concentration (ug/L)	: 1.2267

PTL03 0084

PATP7

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796197

File: /chem/HP09915.i/09oct09b.b/lc09s59.d
Sample: PATP7;5796197;1;0;;;;;;;
Injected At:09-OCT-2009 23:13
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.848(-0.019)	705	65	190739(-10)	250.00	
72) Fluorobenzene	7.308(-0.003)	1781	96	987708(-9)	50.00	
104) Chlorobenzene-d5	10.874(-0.003)	2890	117	742010(-8)	50.00	
137) 1,4-Dichlorobenzene-d4	12.767(0.000)	3479	152	406964(-11)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.375(0.000)	113	246050	48.666	97%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.835(0.000)	102	57347	46.970	94%		77 - 113
91) Toluene-d8	(2)	9.375(0.000)	98	1005830	48.630	97%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.883(0.000)	95	351056	47.846	96%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
8) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
19) 1,1-Dichloroethene	(1)	3.231(0.000)	96	218740	51.066	51.07			0.80	5.00
21) Acetone	(1)				ND	ND			6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
36) 1,1-Dichloroethane	(1)	4.829(-0.001)	63	131479	13.489	13.49			1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
45) 2-Butanone	(1)				ND	ND			3.00	10.00
46) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
51) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)				ND	ND			0.80	5.00
57) 1,1,1-Trichloroethane	(1)	6.414(0.000)	97	95096	11.090	11.09			0.80	5.00
61) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
62) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTB03:0095

PATP7

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796197

File: /chem/HP09915.i/09oct09b.b/lc09s59.d
Sample: PATP7;5796197;1;0;;;;;;;
Injected At:09-OCT-2009 23:13
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
80) Dibromomethane	(1)					ND	ND			1.00	5.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
107) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
108) Ethylbenzene	(2)					ND	ND			0.80	5.00
109) m+p-Xylene	(2)					ND	ND			0.80	5.00
111) o-Xylene	(2)					ND	ND			0.80	5.00
112) Styrene	(2)					ND	ND			1.00	5.00
113) Bromoform	(2)					ND	ND			1.00	5.00
115) Isopropylbenzene	(2)					ND	ND			1.00	5.00
120) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0086

PATP7

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796197

File: /chem/HP09915.i/09oct09b.b/lc09s59.d
Sample: PATP7;5796197;1;0;;;;;;;
Injected At:09-OCT-2009 23:13
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
143) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
147) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
148) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
149) Naphthalene	(3)					ND	ND			1.00	5.00
150) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

Analyst: CBE1947 Date: 10/14/09

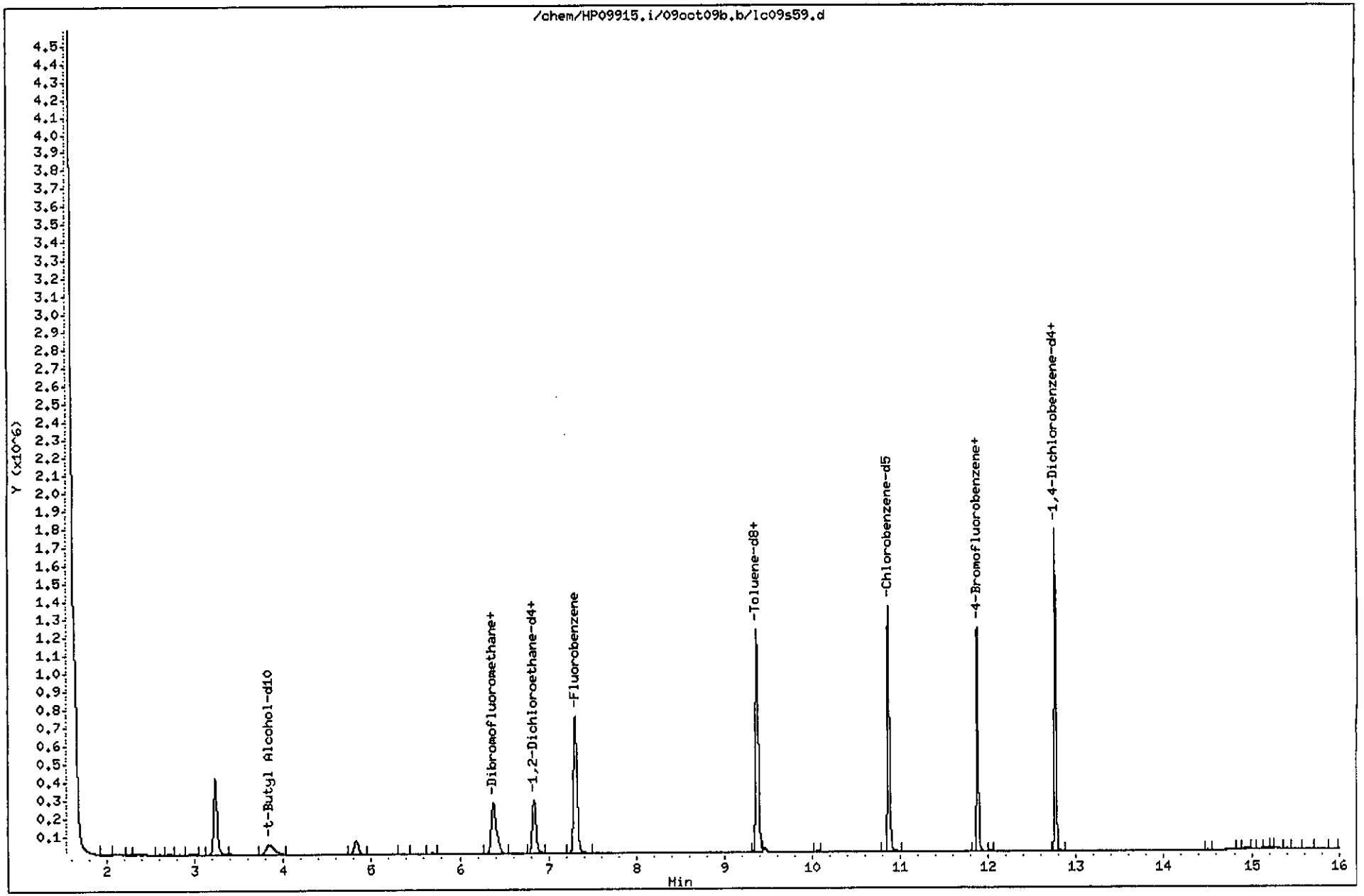
Auditor: MM Date: 10.14.09

PTL03 0087

Data File: /chem/HP09915.i/09oct09b.b/lc09s59.d
Date : 09-OCT-2009 23:13
Client ID: PATP7
Sample Info: PATP7;5796197;1;0;;;;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: KDP02245
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct09b.b/lc09s59.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 23:13 Analyst ID: KDP02245

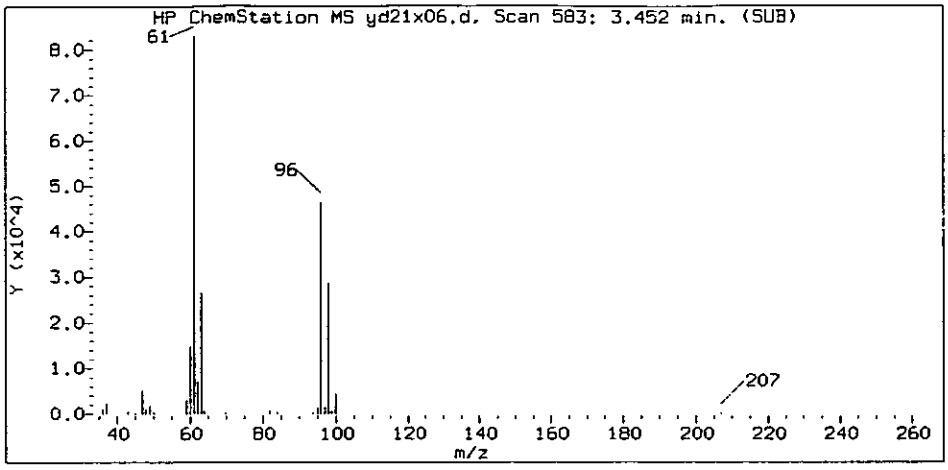
Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: MWH
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 22:36 maz02012

Sample Name: PATP7 Lab Sample ID: 5796197

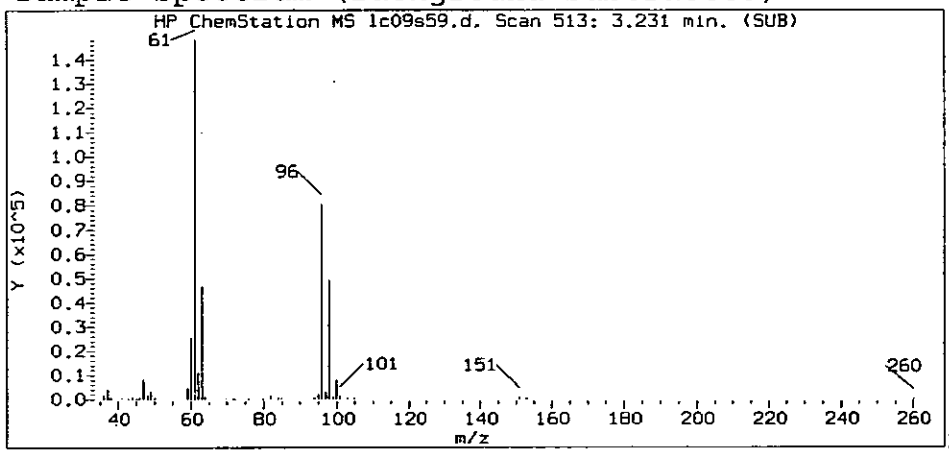
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
19) 1,1-Dichloroethene	(1)	3.231	96	218740	51.066
30)*t-Butyl Alcohol-d10	(4)	3.848	65	190739	250.000
36) 1,1-Dichloroethane	(1)	4.829	63	131479	13.489
57) 1,1,1-Trichloroethane	(1)	6.414	97	95096	11.090
72)*Fluorobenzene	(1)	7.308	96	987708	50.000
104)*Chlorobenzene-d5	(2)	10.874	117	742010	50.000
137)*1,4-Dichlorobenzene-d4	(3)	12.767	152	406964	50.000
54)$Dibromofluoromethane	(1)	6.375	113	246050	48.666
64)$1,2-Dichloroethane-d4	(1)	6.835	102	57347	46.970
91)$Toluene-d8	(2)	9.375	98	1005830	48.630
119)$4-Bromofluorobenzene	(2)	11.883	95	351056	47.846

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

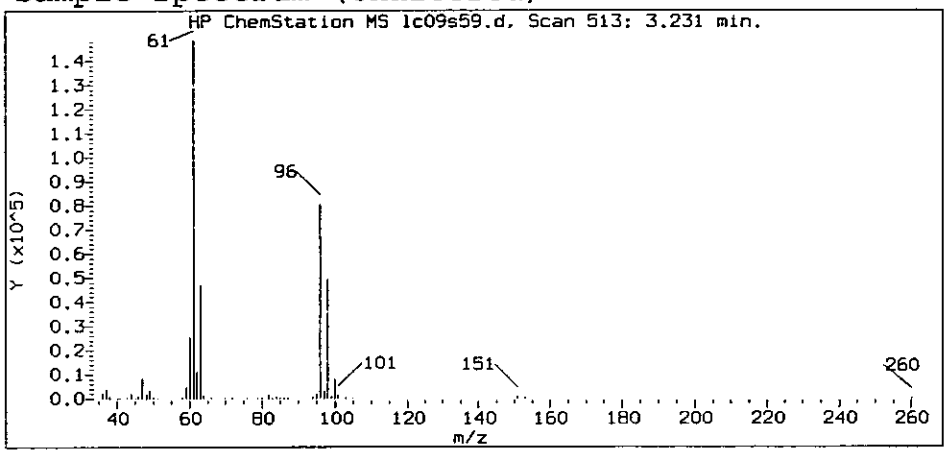
Reference Standard Spectrum for 1,1-Dichloroethene

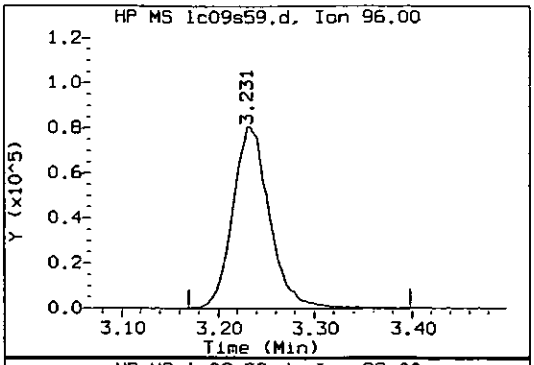


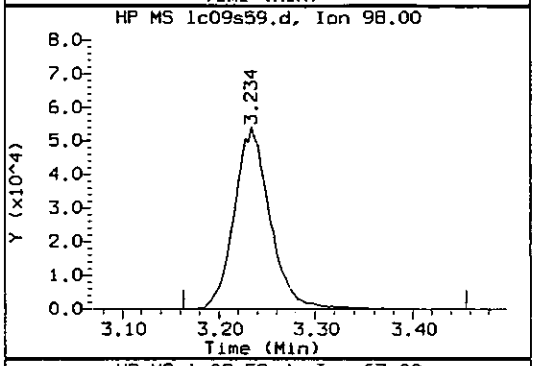
Sample Spectrum (Background Subtracted)

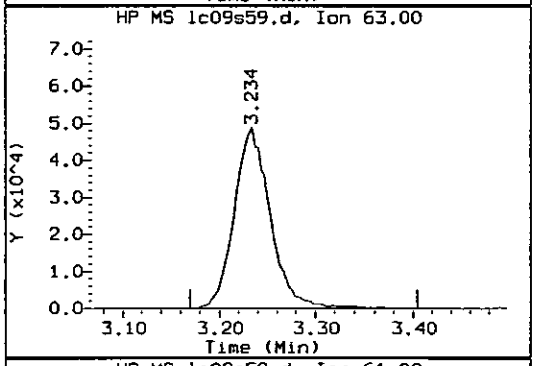


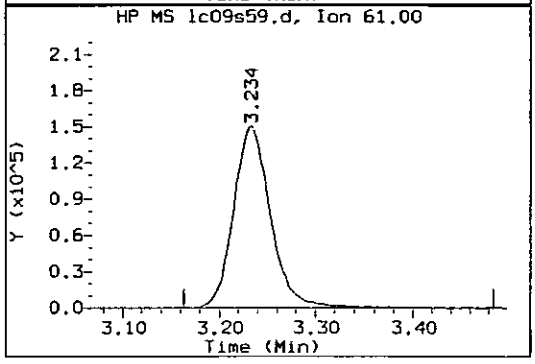
Sample Spectrum (Unaltered)











Data File: /chem/HP09915.i/09oct09b.b/lc09s59.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 23:13 Analyst ID: KDP02245

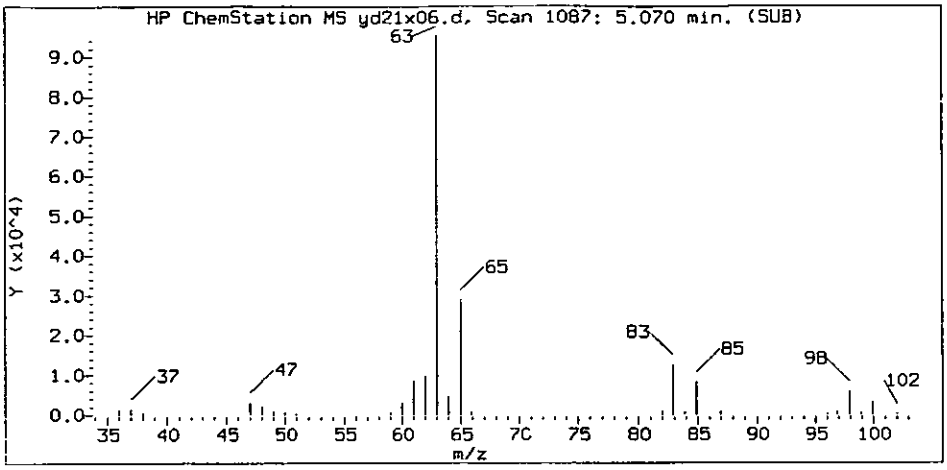
Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: MWH
Calibration date and time: 12-OCT-2009 22:35
Date, time and analyst ID of latest file update: 12-Oct-2009 22:36 maz02012

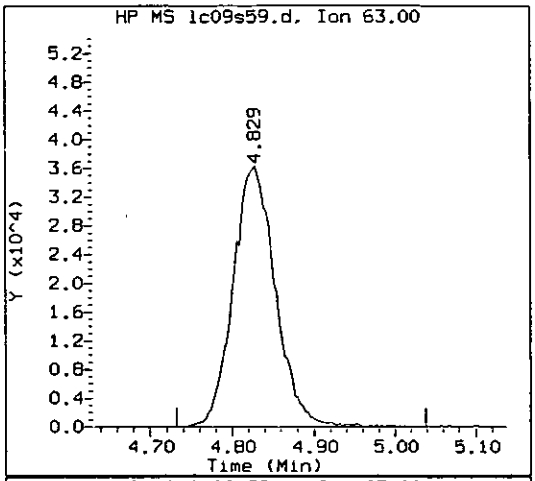
Sample Name: PATP7 Lab Sample ID: 5796197

Compound Number	: 19
Compound Name	: 1,1-Dichloroethene
Scan Number	: 513
Retention Time (minutes)	: 3.231
Quant Ion	: 96.0
Area (flag)	: 218740
Concentration (ug/L)	: 51.0659

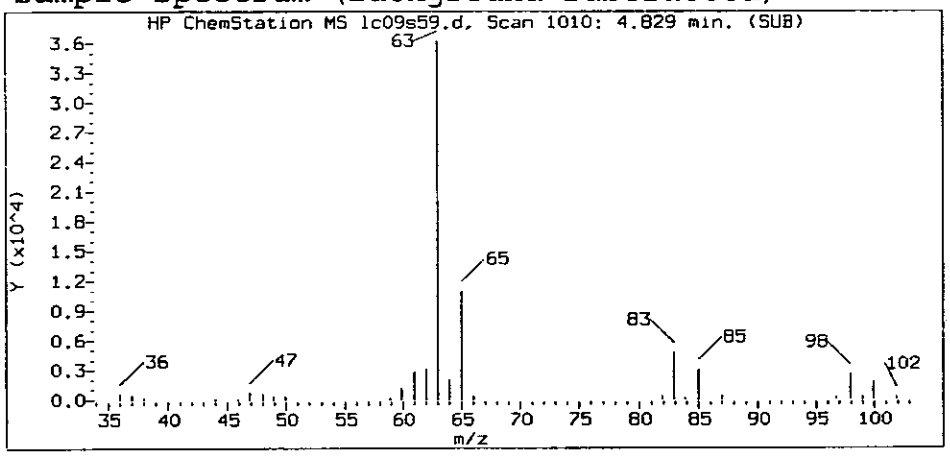
PTL03 0090

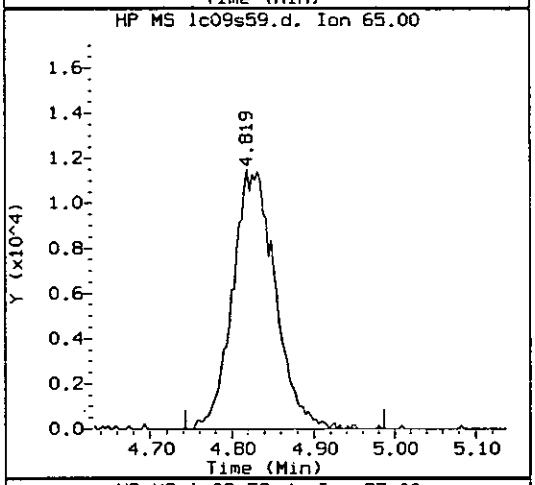
Reference Standard Spectrum for 1,1-Dichloroethane



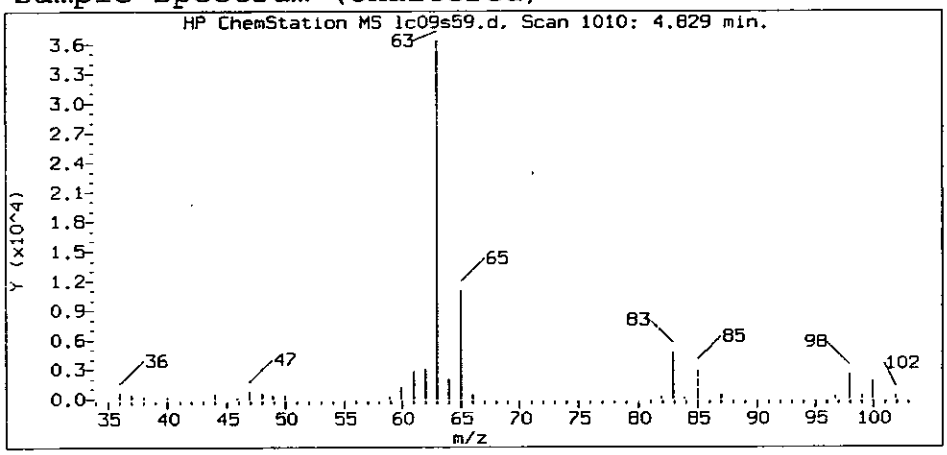


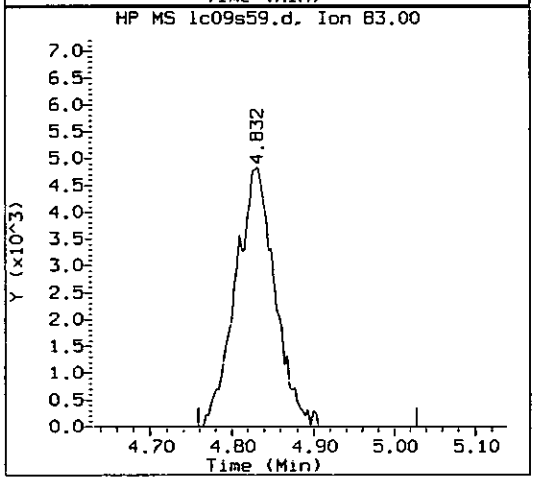
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09915.i/09oct09b.b/lc09s59.d
Injection date and time: 09-OCT-2009 23:13

Instrument ID: HP09915.i
Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m
Calibration date and time: 12-OCT-2009 22:35

Sublist used: MWH

Date, time and analyst ID of latest file update: 12-Oct-2009 22:36 maz02012

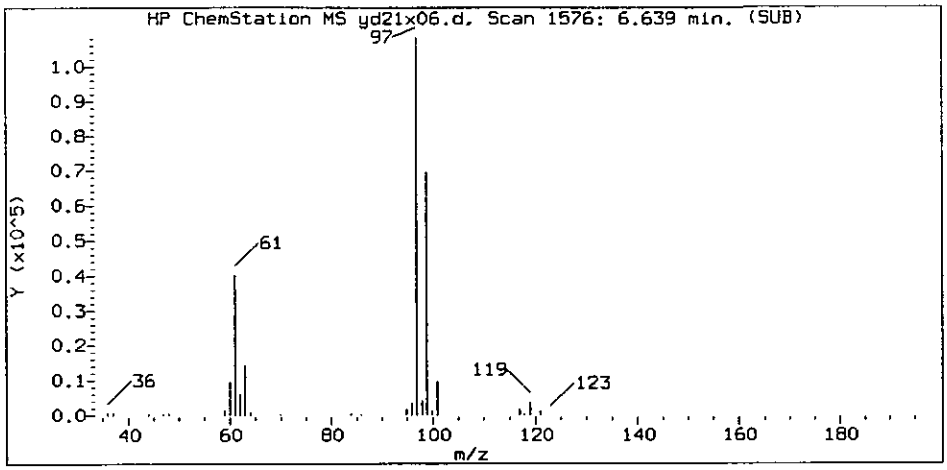
Sample Name: PATP7

Lab Sample ID: 5796197

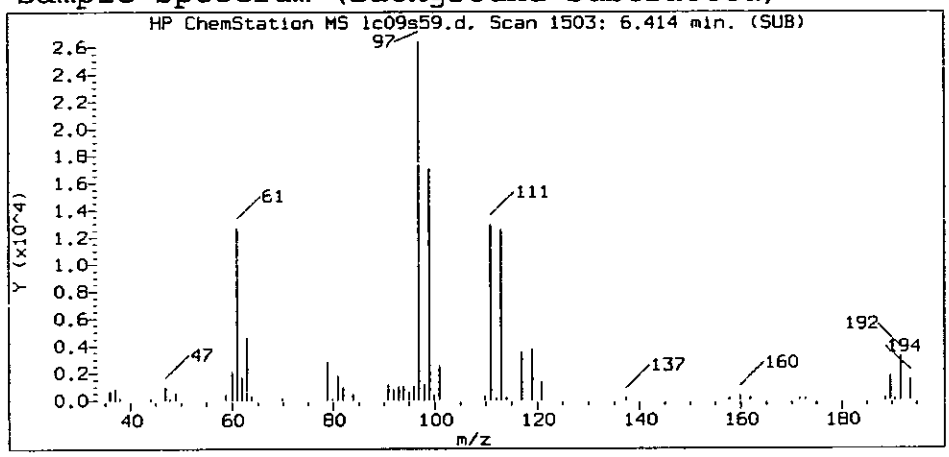
Compound Number	: 36
Compound Name	: 1,1-Dichloroethane
Scan Number	: 1010
Retention Time (minutes)	: 4.829
Quant Ion	: 63.0
Area (flag)	: 131479
Concentration (ug/L)	: 13.4892

PTL83 0891

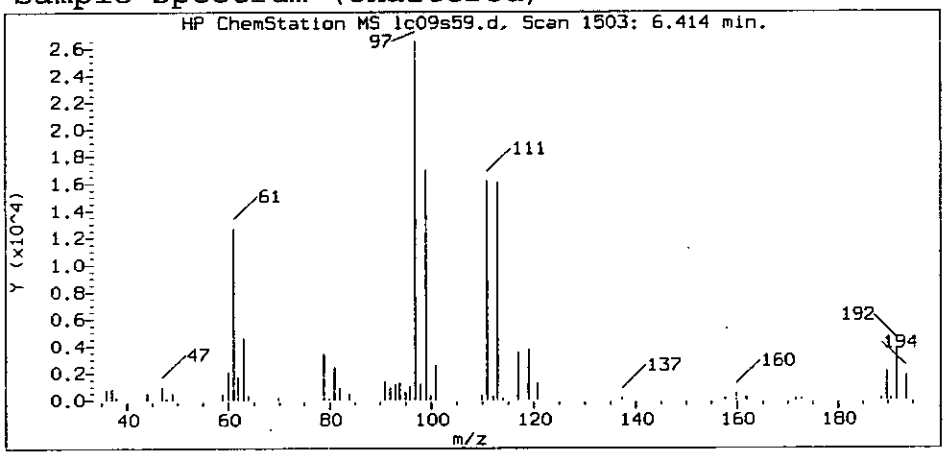
Reference Standard Spectrum for 1,1,1-Trichloroethane

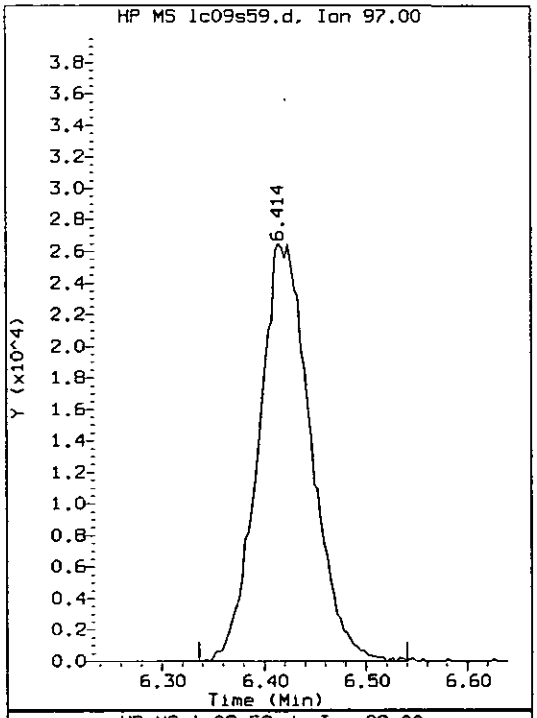


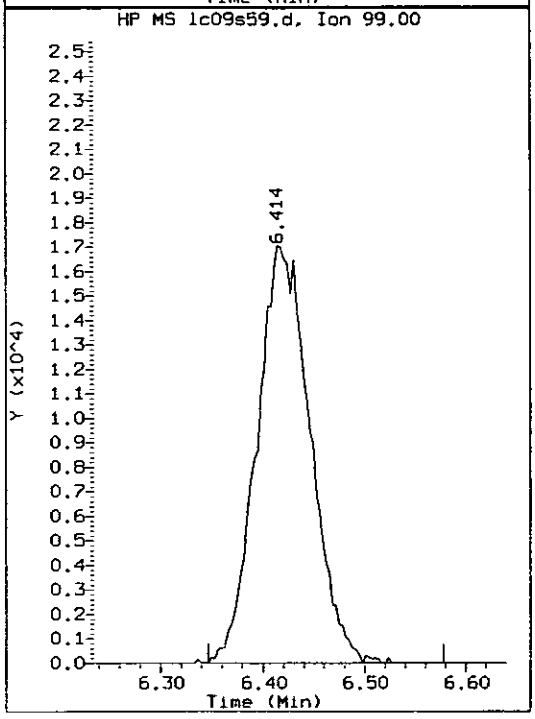
Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)







Data File: /chem/HP09915.i/09oct09b.b/lc09s59.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 23:13 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: MWH
Calibration date and time: 12-OCT-2009 22:35
Date, time and analyst ID of latest file update: 12-Oct-2009 22:36 maz02012

Sample Name: PATP7 Lab Sample ID: 5796197

Compound Number	: 57
Compound Name	: 1,1,1-Trichloroethane
Scan Number	: 1503
Retention Time (minutes)	: 6.414
Quant Ion	: 97.0
Area (flag)	: 95096
Concentration (ug/L)	: 11.0900

PTL03 0892

PAP7A

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796198

File: /chem/HP09915.i/09oct09b.b/lc09s60.d
Sample: PAP7A;5796198;1;0;;;;;;;
Injected At:09-OCT-2009 23:35
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.842(-0.013)	703	65	185048(-13)	250.00	
72) Fluorobenzene	7.308(-0.003)	1781	96	982850(-9)	50.00	
104) Chlorobenzene-d5	10.874(-0.003)	2890	117	737164(-9)	50.00	
137) 1,4-Dichlorobenzene-d4	12.767(0.000)	3479	152	404138(-12)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.379(-0.001)	113	239166	47.538	95%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.838(0.000)	102	56390	46.415	93%		77 - 113
91) Toluene-d8	(2)	9.375(0.000)	98	991688	48.261	97%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.883(0.000)	95	346424	47.525	95%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
8) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
19) 1,1-Dichloroethene	(1)	3.237(-0.001)	96	12776	2.997	3.00		J	0.80	5.00
21) Acetone	(1)				ND	ND			6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
36) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
45) 2-Butanone	(1)				ND	ND			3.00	10.00
46) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
51) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)				ND	ND			0.80	5.00
57) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
61) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
62) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0893

PAP7A

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796198

File: /chem/HP09915.i/09oct09b.b/lc09s60.d
Sample: PAP7A;5796198;1;0;;;;;;;
Injected At:09-OCT-2009 23:35
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
80) Dibromomethane	(1)					ND	ND			1.00	5.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
107) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
108) Ethylbenzene	(2)					ND	ND			0.80	5.00
109) m+p-Xylene	(2)					ND	ND			0.80	5.00
111) o-Xylene	(2)					ND	ND			0.80	5.00
112) Styrene	(2)					ND	ND			1.00	5.00
113) Bromoform	(2)					ND	ND			1.00	5.00
115) Isopropylbenzene	(2)					ND	ND			1.00	5.00
120) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0894

PAP7A

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796198

File: /chem/HP09915.i/09oct09b.b/lc09s60.d
Sample: PAP7A;5796198;1;0;;;;;;;
Injected At:09-OCT-2009 23:35
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
143) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
147) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
148) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
149) Naphthalene	(3)					ND	ND			1.00	5.00
150) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

Analyst: CBE 10/14/09 Date: 10/14/09

Auditor: MA Date: 10/14/09

PTL03 8895

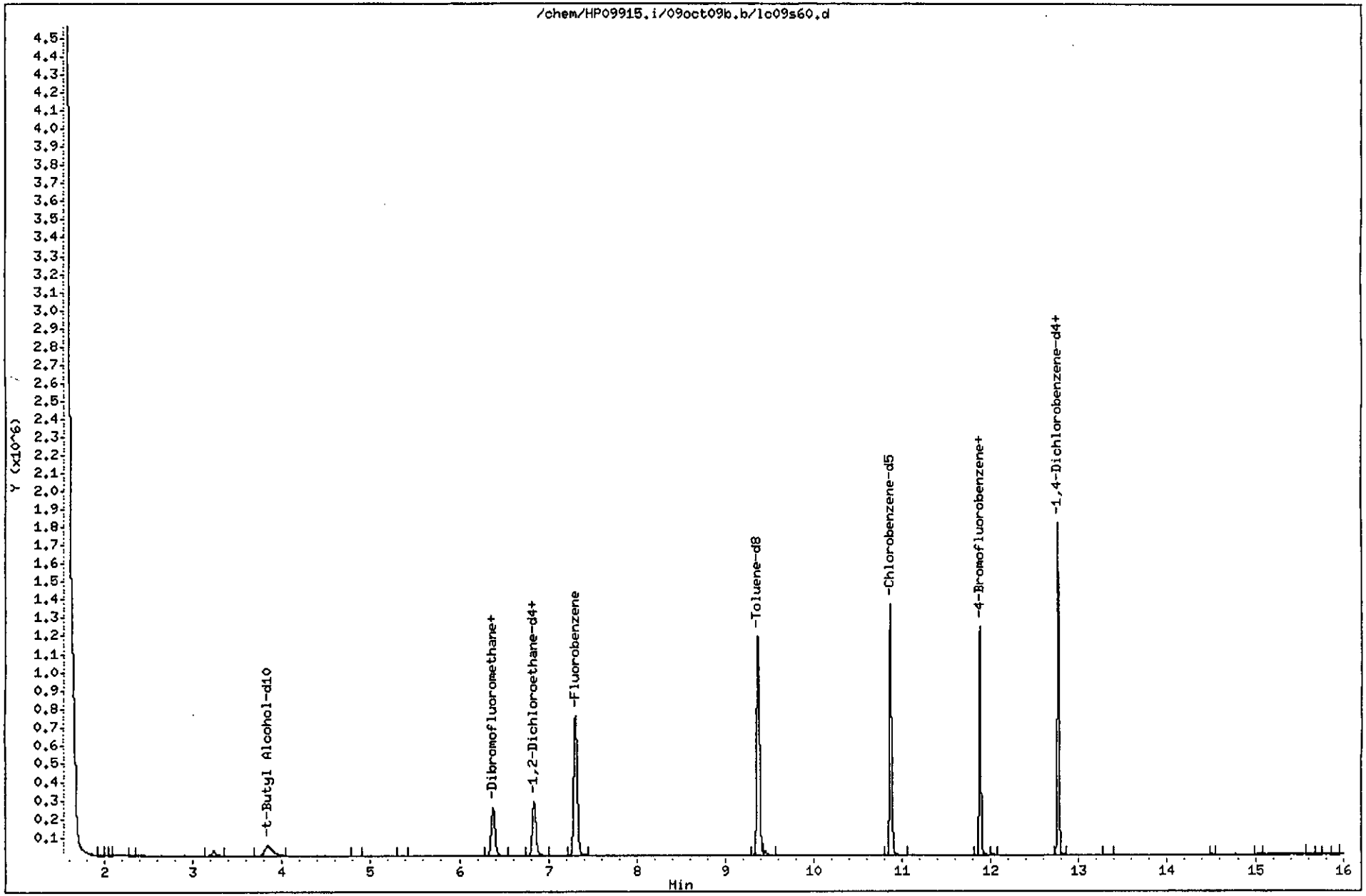
60.01.91
158 dof

PTL03 #096

Data File: /chem/HP09915.i/09oct09b.b/lc09s60.d
Date : 09-OCT-2009 23:35
Client ID: PAP7A
Sample Info: PAP7A;5796198;1;0;;;;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: KDP02245
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct09b.b/1c09s60.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 23:35 Analyst ID: KDP02245

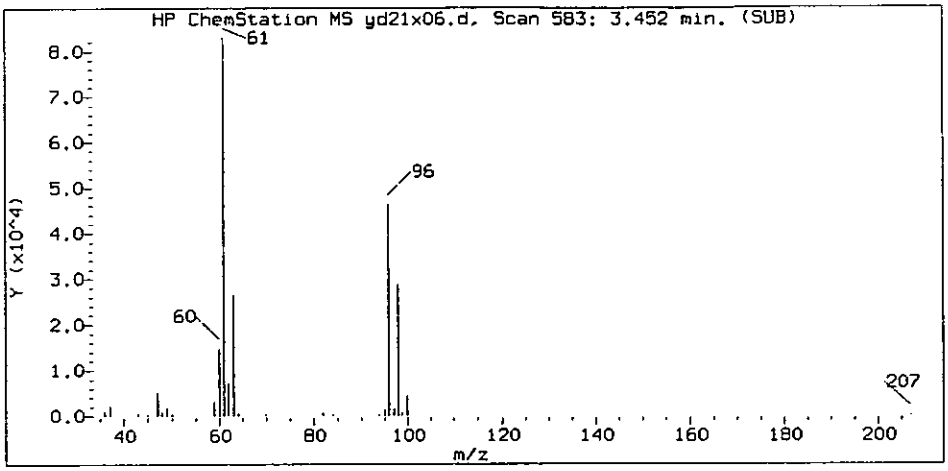
Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: MWH
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 22:36 maz02012

Sample Name: PAP7A Lab Sample ID: 5796198

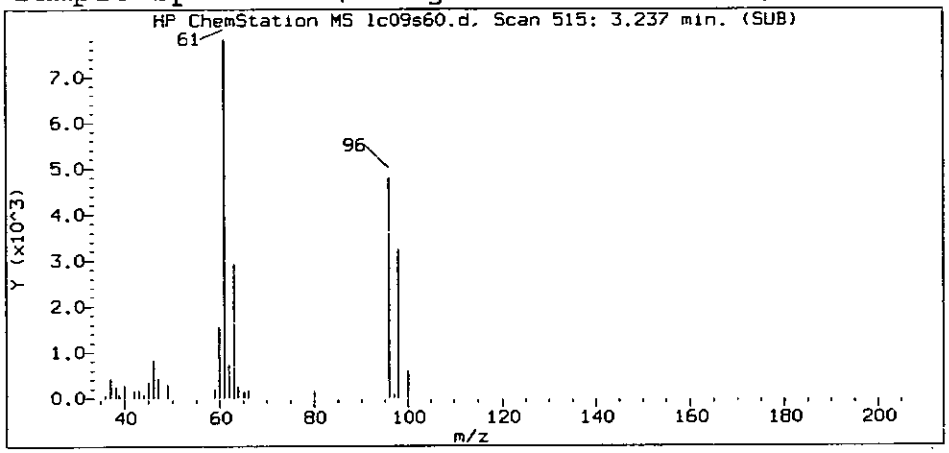
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
19) 1,1-Dichloroethene	(1)	3.237	96	12776	2.997
30)*t-Butyl Alcohol-d10	(4)	3.842	65	185048	250.000
72)*Fluorobenzene	(1)	7.308	96	982850	50.000
104)*Chlorobenzene-d5	(2)	10.874	117	737164	50.000
137)*1,4-Dichlorobenzene-d4	(3)	12.767	152	404138	50.000
54)$Dibromofluoromethane	(1)	6.379	113	239166	47.538
64)$1,2-Dichloroethane-d4	(1)	6.838	102	56390	46.415
91)$Toluene-d8	(2)	9.375	98	991688	48.261
119)$4-Bromofluorobenzene	(2)	11.883	95	346424	47.525

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

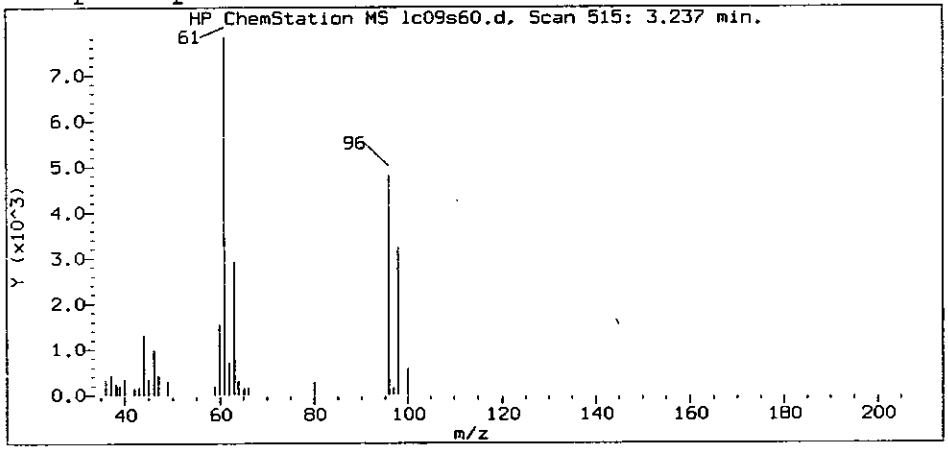
Reference Standard Spectrum for 1,1-Dichloroethene

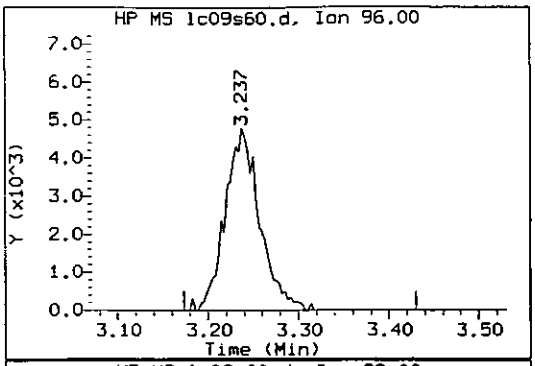


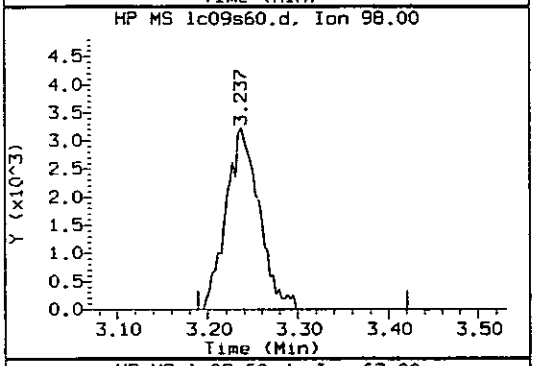
Sample Spectrum (Background Subtracted)

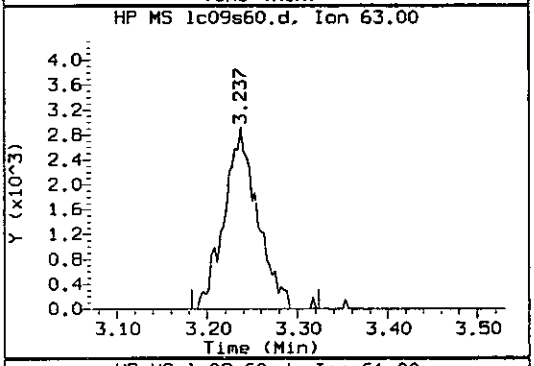


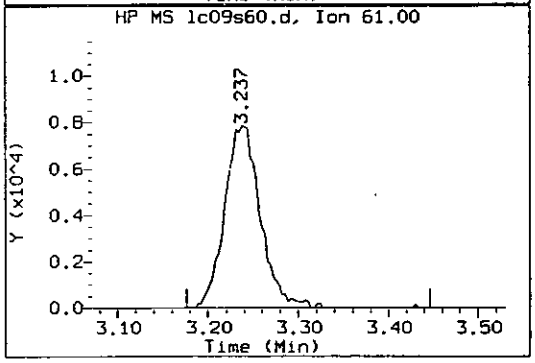
Sample Spectrum (Unaltered)











Data File: /chem/HP09915.i/09oct09b.b/lc09s60.d
Injection date and time: 09-OCT-2009 23:35

Instrument ID: HP09915.i
Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m
Calibration date and time: 12-OCT-2009 22:35

Sublist used: MWH

Date, time and analyst ID of latest file update: 12-Oct-2009 22:36 maz02012

Sample Name: PAP7A

Lab Sample ID: 5796198

Compound Number	: 19
Compound Name	: 1,1-Dichloroethene
Scan Number	: 515
Retention Time (minutes)	: 3.237
Quant Ion	: 96.0
Area (flag)	: 12776
Concentration (ug/L)	: 2.9974

PTL83 0093

PA10A

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796199

File: /chem/HP09915.i/09oct09b.b/lc09s61.d
Sample: PA10A;5796199;1;0;;;;;;;
Injected At:09-OCT-2009 23:56
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.842(-0.013)	703	65	183635(-13)	250.00	
72) Fluorobenzene	7.308(-0.003)	1781	96	967274(-11)	50.00	
104) Chlorobenzene-d5	10.874(-0.003)	2890	117	730453(-10)	50.00	
137) 1,4-Dichlorobenzene-d4	12.767(0.000)	3479	152	404428(-12)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.382(-0.001)	113	238519	48.173	96%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.841(-0.001)	102	56650	47.380	95%		77 - 113
91) Toluene-d8	(2)	9.378(0.000)	98	984321	48.343	97%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.880(0.000)	95	344344	47.673	95%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
8) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)	2.681(0.005)	101	25621	3.025	3.02		J	2.00	5.00
19) 1,1-Dichloroethene	(1)	3.234(-0.001)	96	3824510	911.711	911.71		E	0.80	5.00
21) Acetone	(1)				ND	ND			6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
36) 1,1-Dichloroethane	(1)	4.832(-0.001)	63	172701	18.093	18.09			1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
45) 2-Butanone	(1)				ND	ND			3.00	10.00
46) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
51) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)	6.160(-0.001)	83	10486	1.219	1.22		J	0.80	5.00
57) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
61) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
62) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)	6.948(-0.001)	62	12088	1.627	1.63		J	1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL83 8899

PA10A

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5796199

File: /chem/HP09915.i/09oct09b.b/lc09s61.d
Sample: PA10A;5796199;1;0;;;;;;;
Injected At:09-OCT-2009 23:56
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
80) Dibromomethane	(1)					ND	ND			1.00	5.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
107) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
108) Ethylbenzene	(2)					ND	ND			0.80	5.00
109) m+p-Xylene	(2)					ND	ND			0.80	5.00
111) o-Xylene	(2)					ND	ND			0.80	5.00
112) Styrene	(2)					ND	ND			1.00	5.00
113) Bromoform	(2)					ND	ND			1.00	5.00
115) Isopropylbenzene	(2)					ND	ND			1.00	5.00
120) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0100

PA10A

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796199

File: /chem/HP09915.i/09oct09b.b/lc09s61.d
Sample: PA10A;5796199;1;0;;;;;;;
Injected At:09-OCT-2009 23:56
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
143) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
147) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
148) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
149) Naphthalene	(3)					ND	ND			1.00	5.00
150) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

Analyst: CBE9/17 Date: 10/14/09

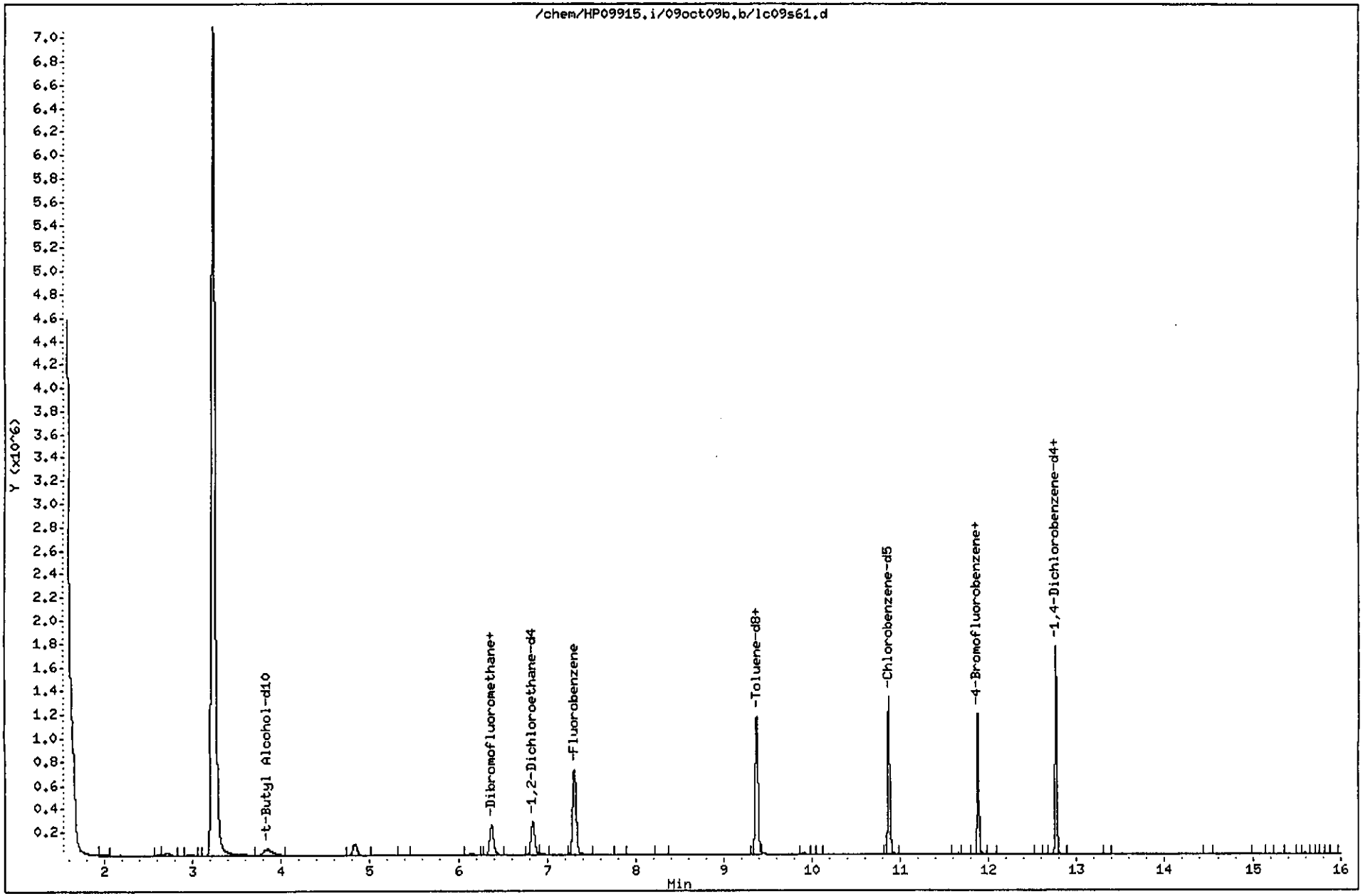
Auditor: Date: 10/14/09

PTL03 0101

Data File: /chem/HP09915.i/09oct09b.b/lc09s61.d
Date : 09-OCT-2009 23:56
Client ID: PA10A
Sample Info: PA10A;5796199;1;0;;;;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: KDP02245
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct09b.b/lc09s61.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 23:56 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: MWH
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 22:36 maz02012

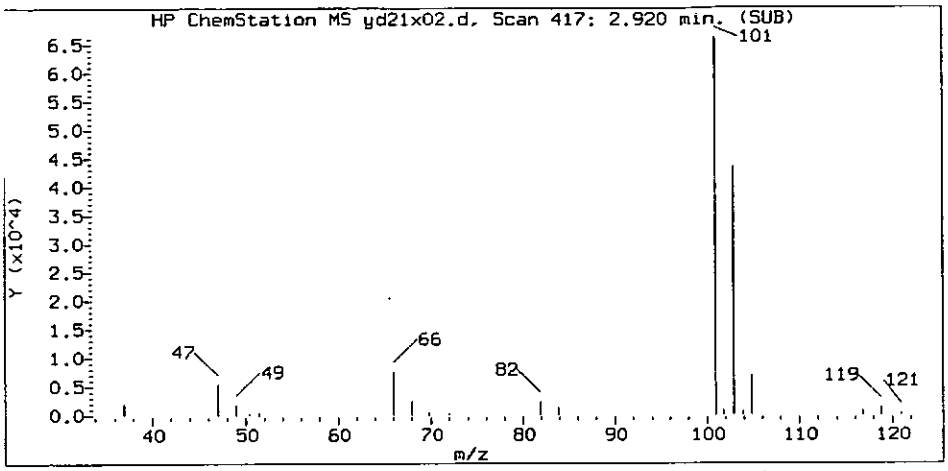
Sample Name: PA10A Lab Sample ID: 5796199

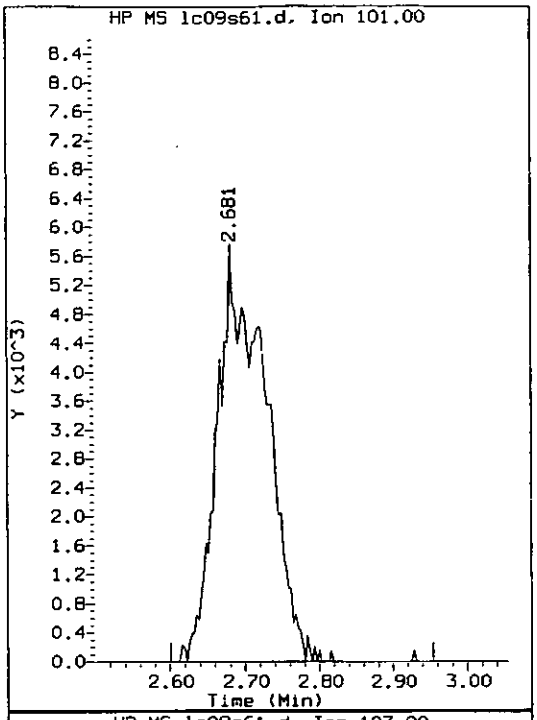
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
11) Trichlorofluoromethane	(1)	2.681	101	25621	3.025
19) 1,1-Dichloroethene	(1)	3.234	96	3824510	911.711
30)*t-Butyl Alcohol-d10	(4)	3.842	65	183635	250.000
36) 1,1-Dichloroethane	(1)	4.832	63	172701	18.093
53) Chloroform	(1)	6.160	83	10486	1.219
68) 1,2-Dichloroethane	(1)	6.948	62	12088	1.627
72)*Fluorobenzene	(1)	7.308	96	967274	50.000
104)*Chlorobenzene-d5	(2)	10.874	117	730453	50.000
137)*1,4-Dichlorobenzene-d4	(3)	12.767	152	404428	50.000
54)$Dibromofluoromethane	(1)	6.382	113	238519	48.173
64)$1,2-Dichloroethane-d4	(1)	6.841	102	56650	47.380
91)$Toluene-d8	(2)	9.378	98	984321	48.343
119)$4-Bromofluorobenzene	(2)	11.880	95	344344	47.673

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

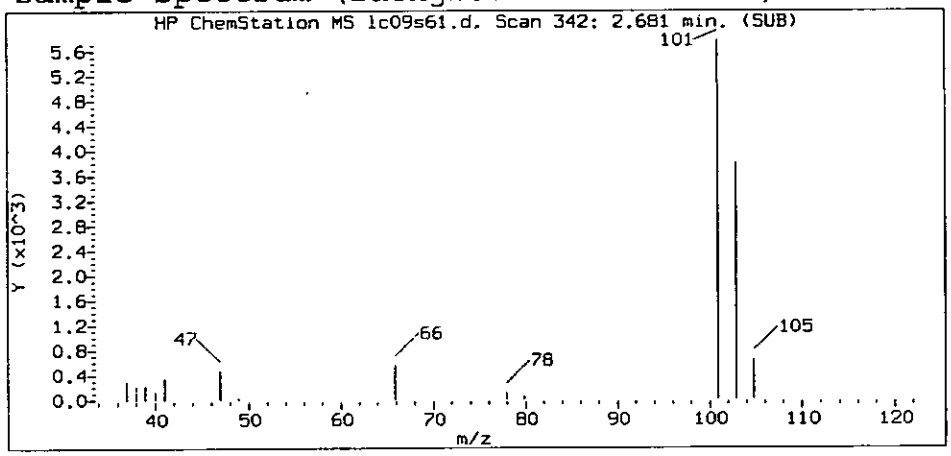
PTL03 0103

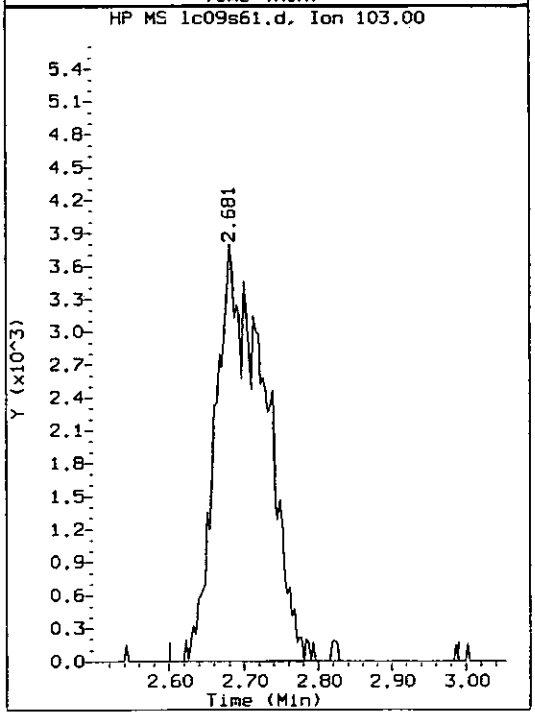
Reference Standard Spectrum for Trichlorofluoromethane



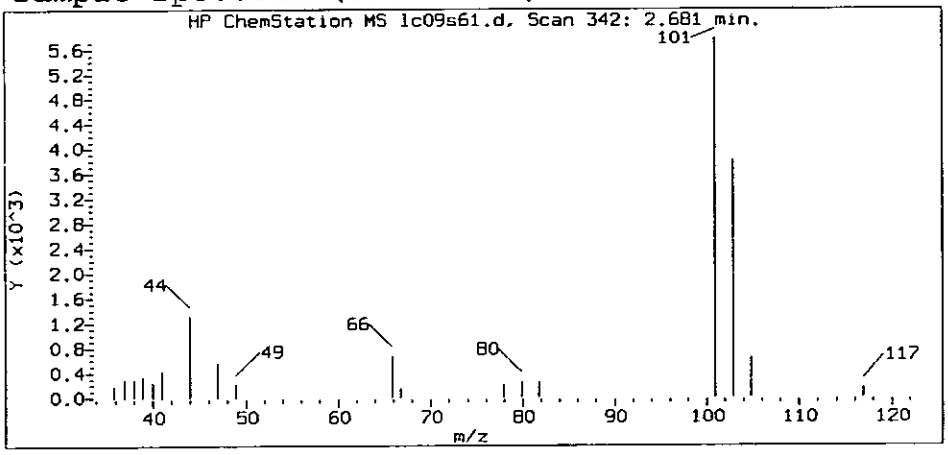


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP09915.i/09oct09b.b/lc09s61.d
Injection date and time: 09-OCT-2009 23:56

Instrument ID: HP09915.i
Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m
Calibration date and time: 12-OCT-2009 22:35
Sublist used: MWH
Date, time and analyst ID of latest file update: 12-Oct-2009 22:36 maz02012

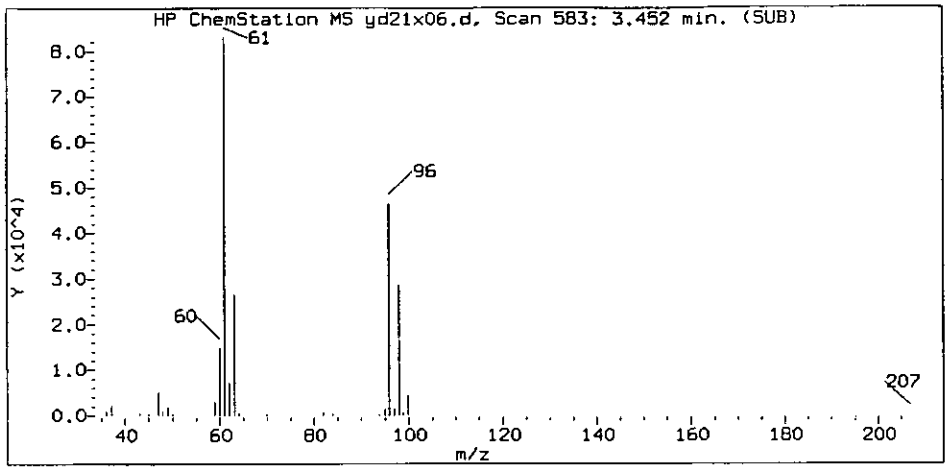
Sample Name: PA10A

Lab Sample ID: 5796199

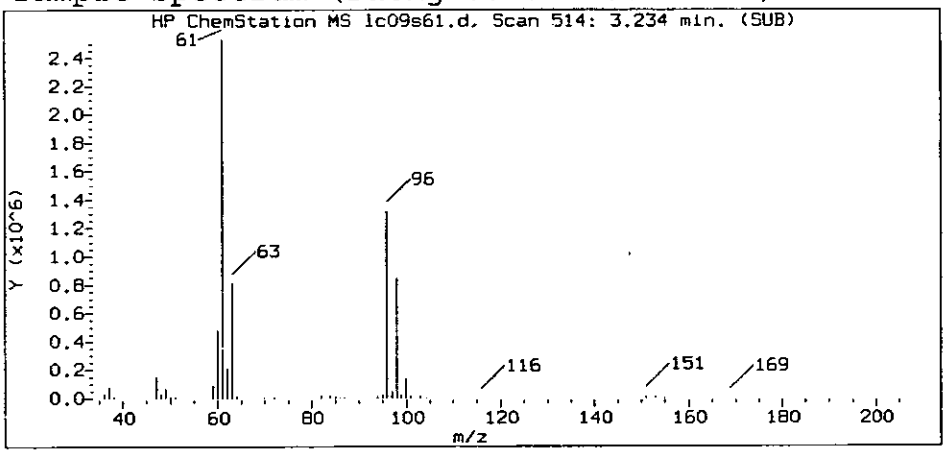
Compound Number	: 11
Compound Name	: Trichlorofluoromethane
Scan Number	: 342
Retention Time (minutes)	: 2.681
Quant Ion	: 101.0
Area (flag)	: 25621
Concentration (ug/L)	: 3.0249

PTL03 0184

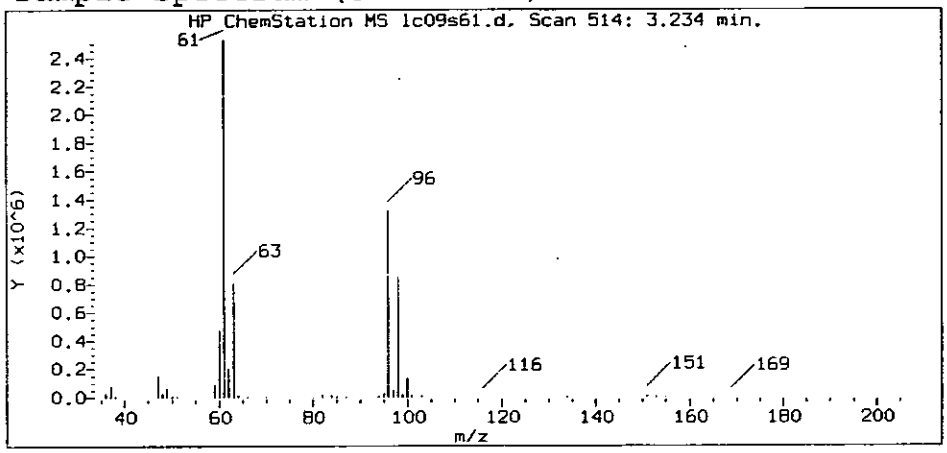
Reference Standard Spectrum for 1,1-Dichloroethene

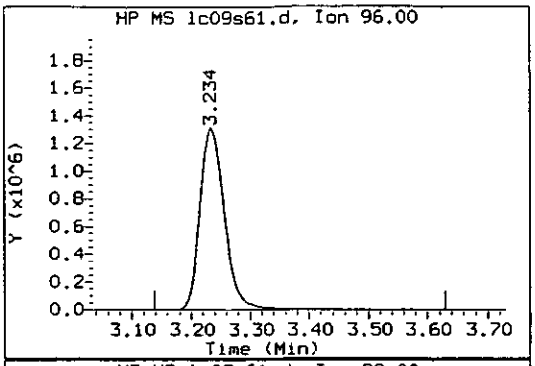


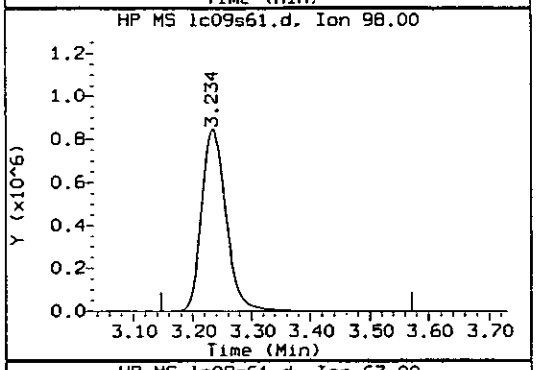
Sample Spectrum (Background Subtracted)

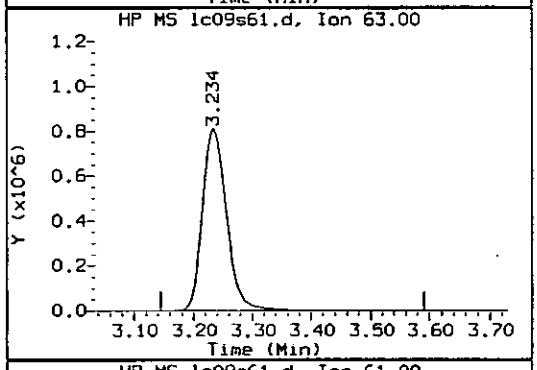


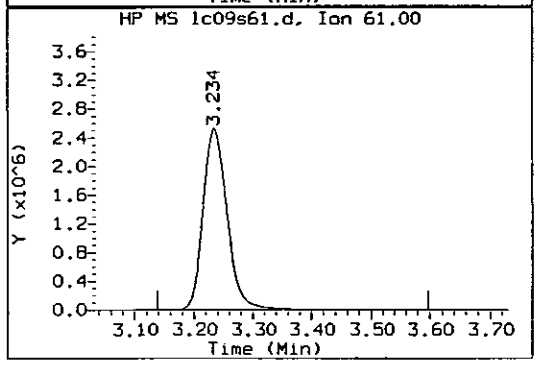
Sample Spectrum (Unaltered)











Data File: /chem/HP09915.i/09oct09b.b/lc09s61.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 23:56 Analyst ID: KDP02245

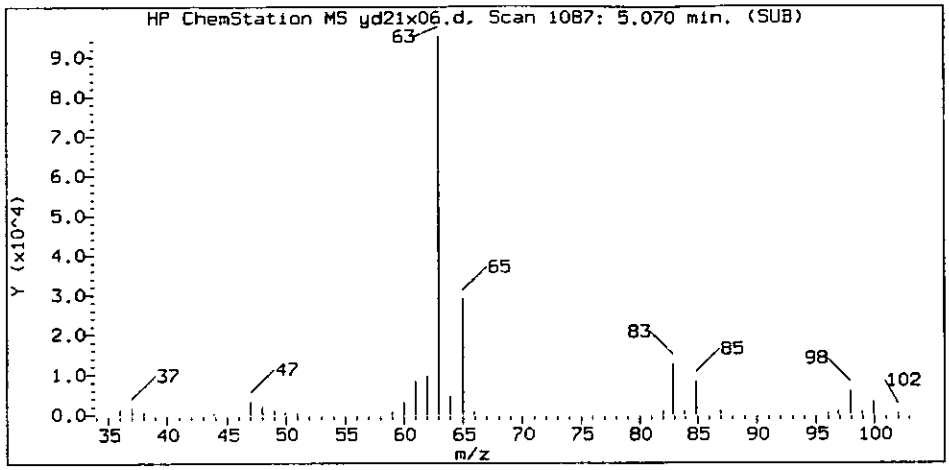
Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: MWH
Calibration date and time: 12-OCT-2009 22:35
Date, time and analyst ID of latest file update: 12-Oct-2009 22:36 maz02012

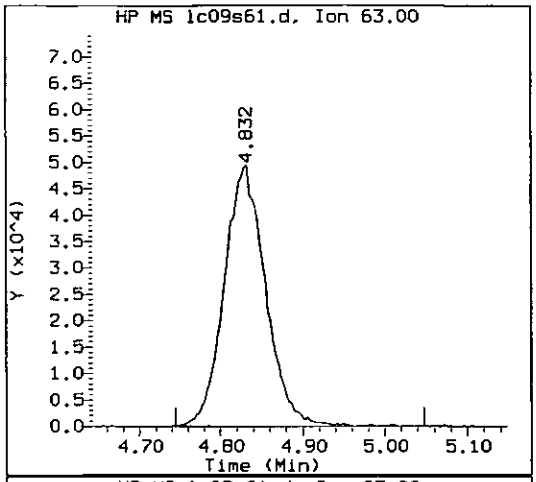
Sample Name: PA10A Lab Sample ID: 5796199

Compound Number	: 19
Compound Name	: 1,1-Dichloroethene
Scan Number	: 514
Retention Time (minutes)	: 3.234
Quant Ion	: 96.0
Area (flag)	: 3824510
Concentration (ug/L)	: 911.7113

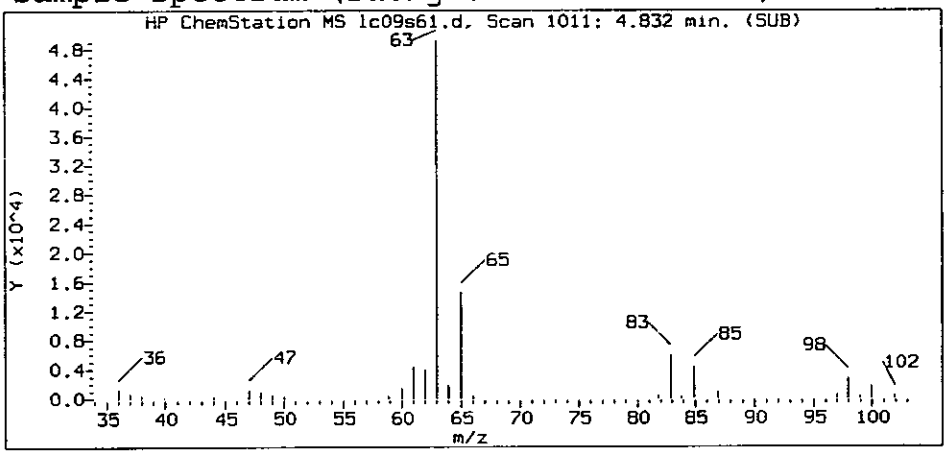
PTL03 0105

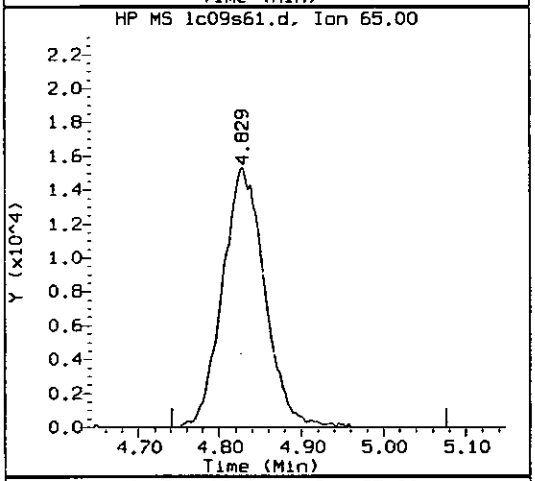
Reference Standard Spectrum for 1,1-Dichloroethane



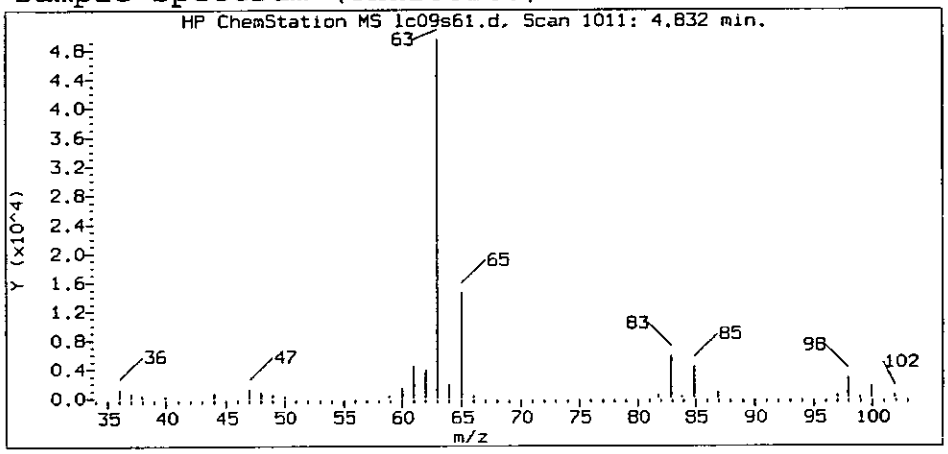


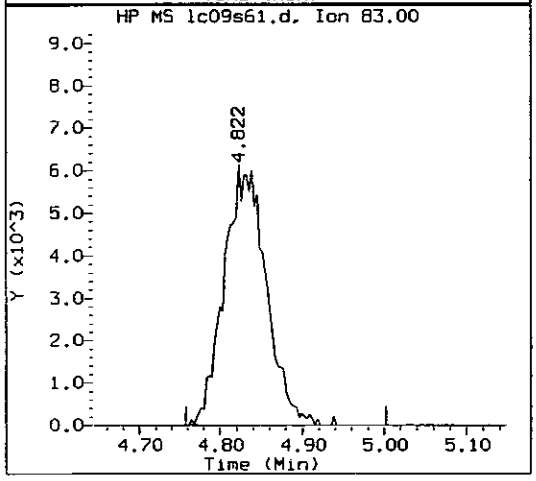
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09915.i/09oct09b.b/lc09s61.d
Injection date and time: 09-OCT-2009 23:56

Instrument ID: HP09915.i
Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m
Calibration date and time: 12-OCT-2009 22:35

Sublist used: MWH

Date, time and analyst ID of latest file update: 12-Oct-2009 22:36 maz02012

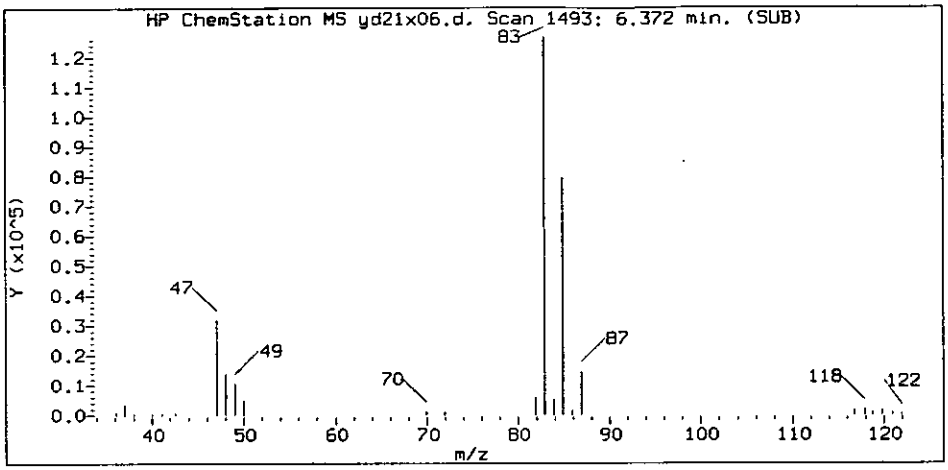
Sample Name: PA10A

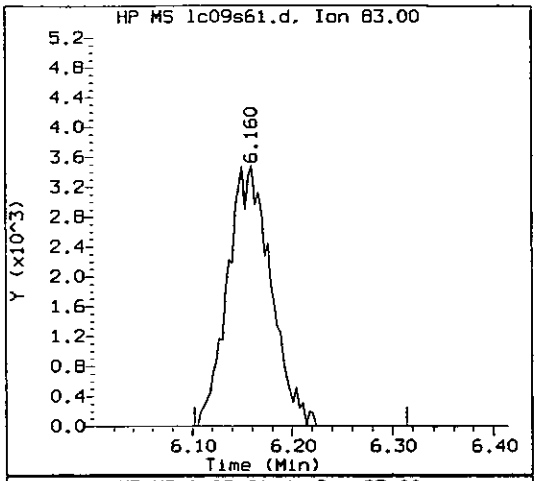
Lab Sample ID: 5796199

Compound Number	: 36
Compound Name	: 1,1-Dichloroethane
Scan Number	: 1011
Retention Time (minutes)	: 4.832
Quant Ion	: 63.0
Area (flag)	: 172701
Concentration (ug/L)	: 18.0927

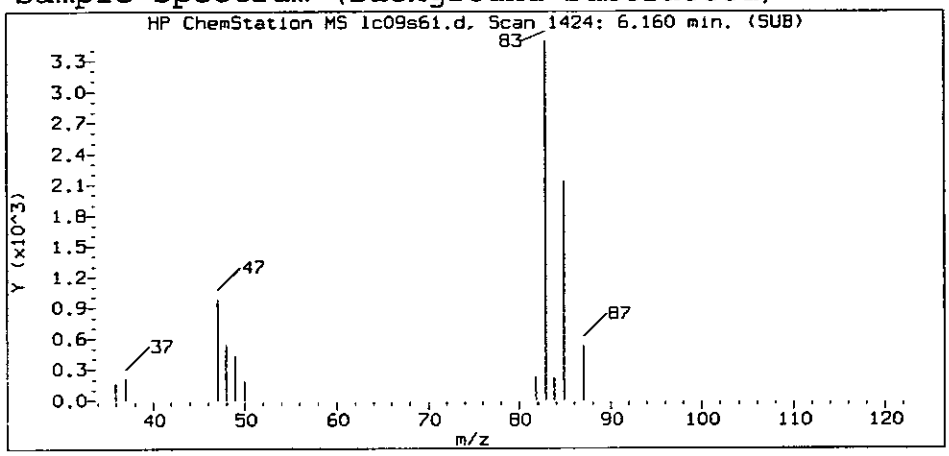
PTL03 P186

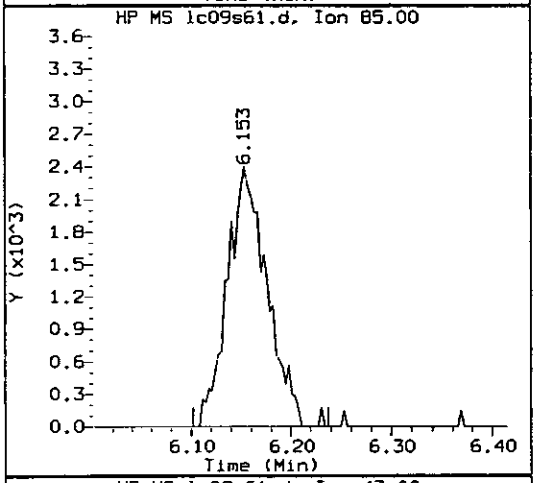
Reference Standard Spectrum for Chloroform



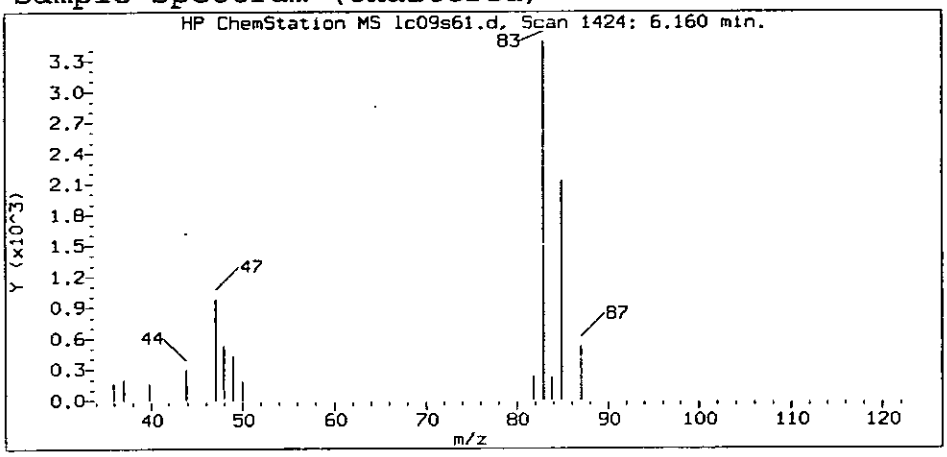


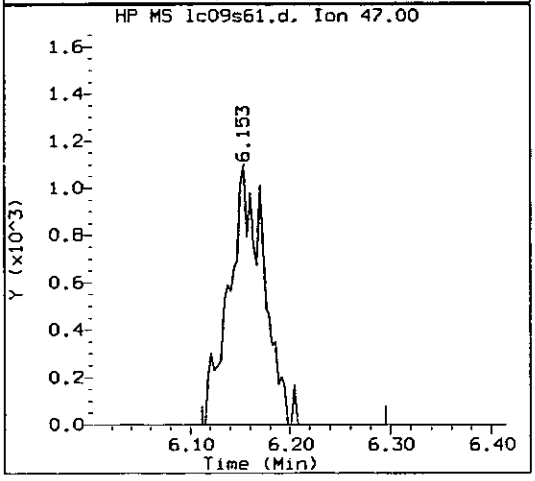
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09915.i/09oct09b.b/lc09s61.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 23:56 Analyst ID: KDP02245

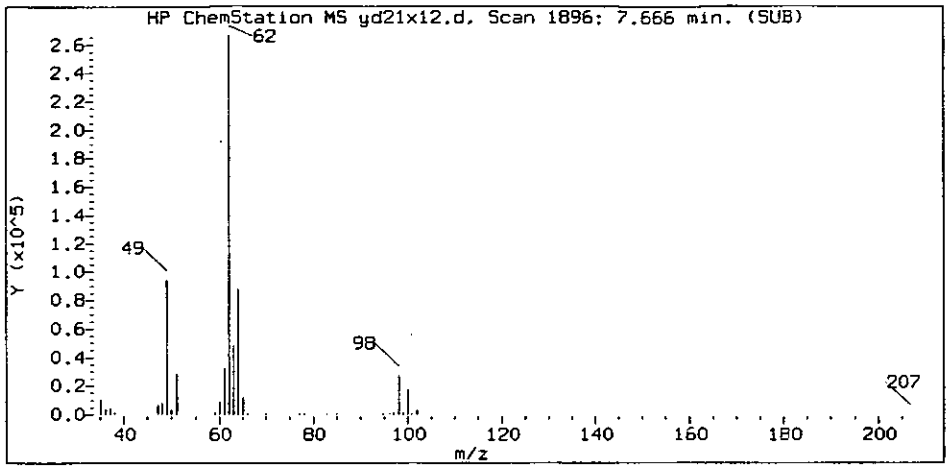
Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: MWH
Calibration date and time: 12-OCT-2009 22:35
Date, time and analyst ID of latest file update: 12-Oct-2009 22:36 maz02012

Sample Name: PA10A Lab Sample ID: 5796199

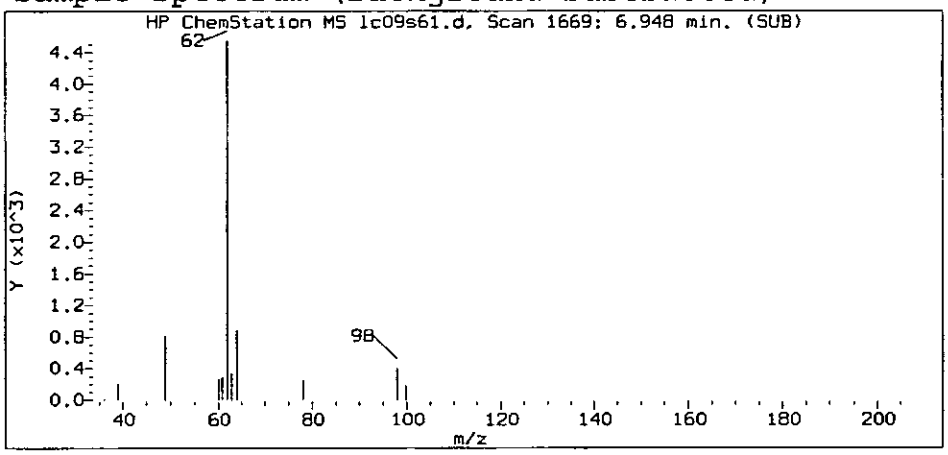
Compound Number	: 53
Compound Name	: Chloroform
Scan Number	: 1424
Retention Time (minutes)	: 6.160
Quant Ion	: 83.0
Area (flag)	: 10486
Concentration (ug/L)	: 1.2189

PTL83 0107

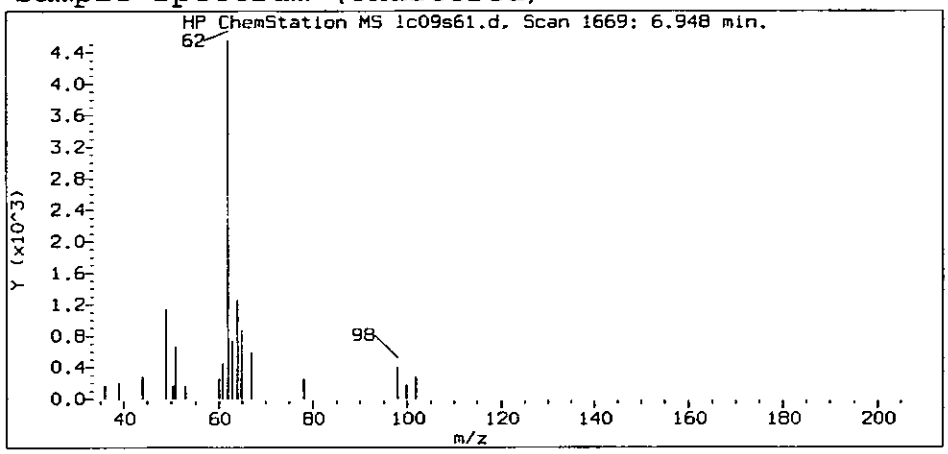
Reference Standard Spectrum for 1,2-Dichloroethane

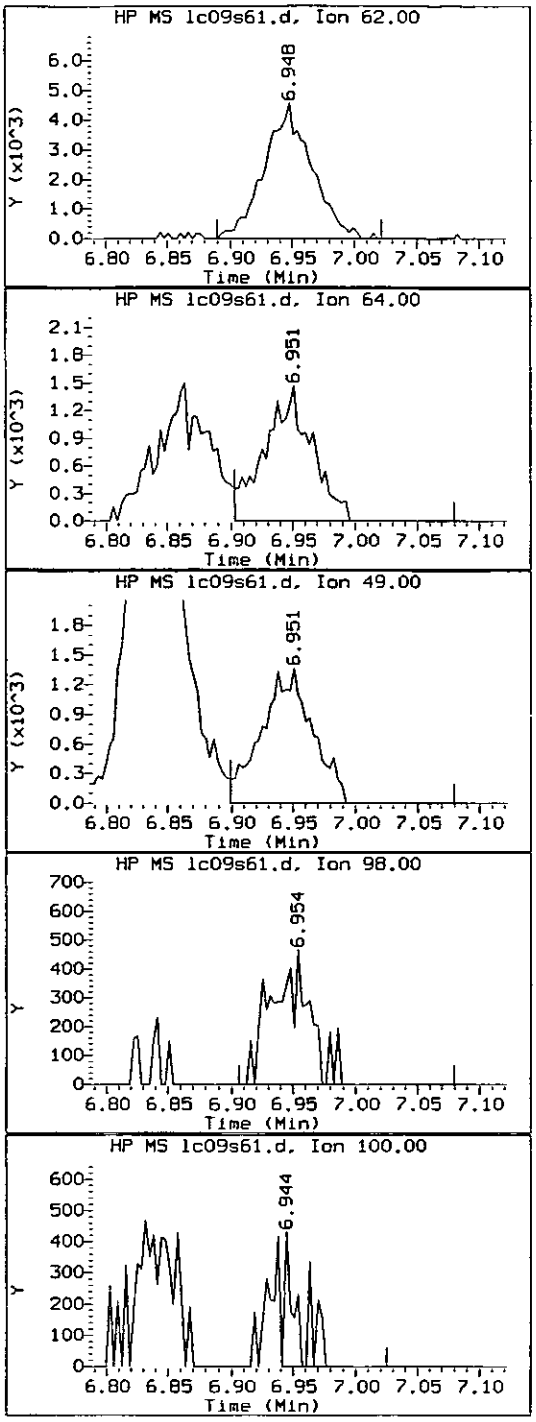


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem/HP09915.i/09oct09b.b/lc09s61.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 23:56 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: MWH
Calibration date and time: 12-OCT-2009 22:35
Date, time and analyst ID of latest file update: 12-Oct-2009 22:36 maz02012

Sample Name: PA10A Lab Sample ID: 5796199

Compound Number	: 68
Compound Name	: 1,2-Dichloroethane
Scan Number	: 1669
Retention Time (minutes)	: 6.948
Quant Ion	: 62.0
Area (flag)	: 12088
Concentration (ug/L)	: 1.6266

PTL83 0108

PA10ADL

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796199

File: /chem/HP09915.i/09oct12a.b/lc12s02.d
Sample: PA10ADL;5796199;1;0;;;;;;;
Injected At:12-OCT-2009 20:22
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc12b01.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:**L092851AA**
Analyst:**MAZ02012**
Instrument ID:**HP09915.i**
Standard Reference: lc12c01.d
Prep Factor:**10.00**
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 0.5000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:**38B**

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.842(0.000)	703	65	219124(-12)	250.00	
72) Fluorobenzene	7.304(-0.003)	1780	96	1131607(-9)	50.00	
104) Chlorobenzene-d5	10.873(0.000)	2890	117	827582(-9)	50.00	
137) 1,4-Dichlorobenzene-d4	12.767(0.000)	3479	152	458357(-13)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.378(-0.001)	113	276239	47.689	95%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.835(0.000)	102	65511	46.834	94%		77 - 113
91) Toluene-d8	(2)	9.375(0.000)	98	1129226	48.950	98%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.880(0.000)	95	392716	47.989	96%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			20.00	50.00
3) Chloromethane	(1)				ND	ND			10.00	50.00
4) Vinyl Chloride	(1)				ND	ND			10.00	50.00
8) Bromomethane	(1)				ND	ND			10.00	50.00
9) Chloroethane	(1)				ND	ND			10.00	50.00
11) Trichlorofluoromethane	(1)				ND	ND			20.00	50.00
19) 1,1-Dichloroethene	(1)	3.234(-0.001)	96	373157	76.037	760.37			8.00	50.00
21) Acetone	(1)				ND	ND			60.00	200.00
29) Methylene Chloride	(1)				ND	ND			20.00	50.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			8.00	50.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			5.00	50.00
36) 1,1-Dichloroethane	(1)	4.832(-0.001)	63	17395	1.558	15.58		J	10.00	50.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			8.00	50.00
45) 2-Butanone	(1)				ND	ND			30.00	100.00
46) 2,2-Dichloropropane	(1)				ND	ND			10.00	50.00
51) Bromochloromethane	(1)				ND	ND			10.00	50.00
53) Chloroform	(1)				ND	ND			8.00	50.00
57) 1,1,1-Trichloroethane	(1)				ND	ND			8.00	50.00
61) 1,1-Dichloropropene	(1)				ND	ND			10.00	50.00
62) Carbon Tetrachloride	(1)				ND	ND			10.00	50.00
67) Benzene	(1)				ND	ND			5.00	50.00
68) 1,2-Dichloroethane	(1)				ND	ND			10.00	50.00
76) Trichloroethene	(1)	7.796(0.000)	95	22734	3.740	37.40		J	10.00	50.00
79) 1,2-Dichloropropane	(1)				ND	ND			10.00	50.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTLB3 8189

PA10ADL

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796199

File: /chem/HP09915.i/09oct12a.b/lc12s02.d
Sample: PA10ADL;5796199;1;0;;;;;;;
Injected At:12-OCT-2009 20:22
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc12b01.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092851AA
Analyst:MAZ02012
Instrument ID:HP09915.i
Standard Reference: lc12c01.d
Prep Factor:10.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 0.5000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38B

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
80) Dibromomethane	(1)					ND	ND			10.00	50.00
84) Bromodichloromethane	(1)					ND	ND			10.00	50.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			10.00	50.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			30.00	100.00
93) Toluene	(2)					ND	ND			7.00	50.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			10.00	50.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			8.00	50.00
97) Tetrachloroethene	(2)					ND	ND			8.00	50.00
98) 1,3-Dichloropropane	(2)					ND	ND			10.00	50.00
102) Dibromochloromethane	(2)					ND	ND			10.00	50.00
103) 1,2-Dibromoethane	(2)					ND	ND			10.00	50.00
105) Chlorobenzene	(2)					ND	ND			8.00	50.00
107) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			10.00	50.00
108) Ethylbenzene	(2)					ND	ND			8.00	50.00
109) m+p-Xylene	(2)					ND	ND			8.00	50.00
111) o-Xylene	(2)					ND	ND			8.00	50.00
112) Styrene	(2)					ND	ND			10.00	50.00
113) Bromoform	(2)					ND	ND			10.00	50.00
115) Isopropylbenzene	(2)					ND	ND			10.00	50.00
120) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			10.00	50.00
122) Bromobenzene	(3)					ND	ND			10.00	50.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			10.00	50.00
125) n-Propylbenzene	(3)					ND	ND			10.00	50.00
126) 2-Chlorotoluene	(3)					ND	ND			10.00	50.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0110

PA10ADL

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796199

File: /chem/HP09915.i/09oct12a.b/lc12s02.d
Sample: PA10ADL;5796199;1;0;;;;;;;
Injected At:12-OCT-2009 20:22
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc12b01.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092851AA
Analyst:MAZ02012
Instrument ID:HP09915.i
Standard Reference: lc12c01.d
Prep Factor:10.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 0.5000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38B

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			10.00	50.00
128) 4-Chlorotoluene	(3)					ND	ND			10.00	50.00
130) tert-Butylbenzene	(3)					ND	ND			10.00	50.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			10.00	50.00
134) sec-Butylbenzene	(3)					ND	ND			10.00	50.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			10.00	50.00
136) p-Isopropyltoluene	(3)					ND	ND			10.00	50.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			10.00	50.00
143) n-Butylbenzene	(3)					ND	ND			10.00	50.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			10.00	50.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			20.00	50.00
147) 1,2,4-Trichlorobenzene	(3)					ND	ND			10.00	50.00
148) Hexachlorobutadiene	(3)					ND	ND			20.00	50.00
149) Naphthalene	(3)					ND	ND			10.00	50.00
150) 1,2,3-Trichlorobenzene	(3)					ND	ND			10.00	50.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

Analyst: MZ 2m Date: 10/12/09

Auditor: [signature] Date: 10/13/09

PTL03 3111

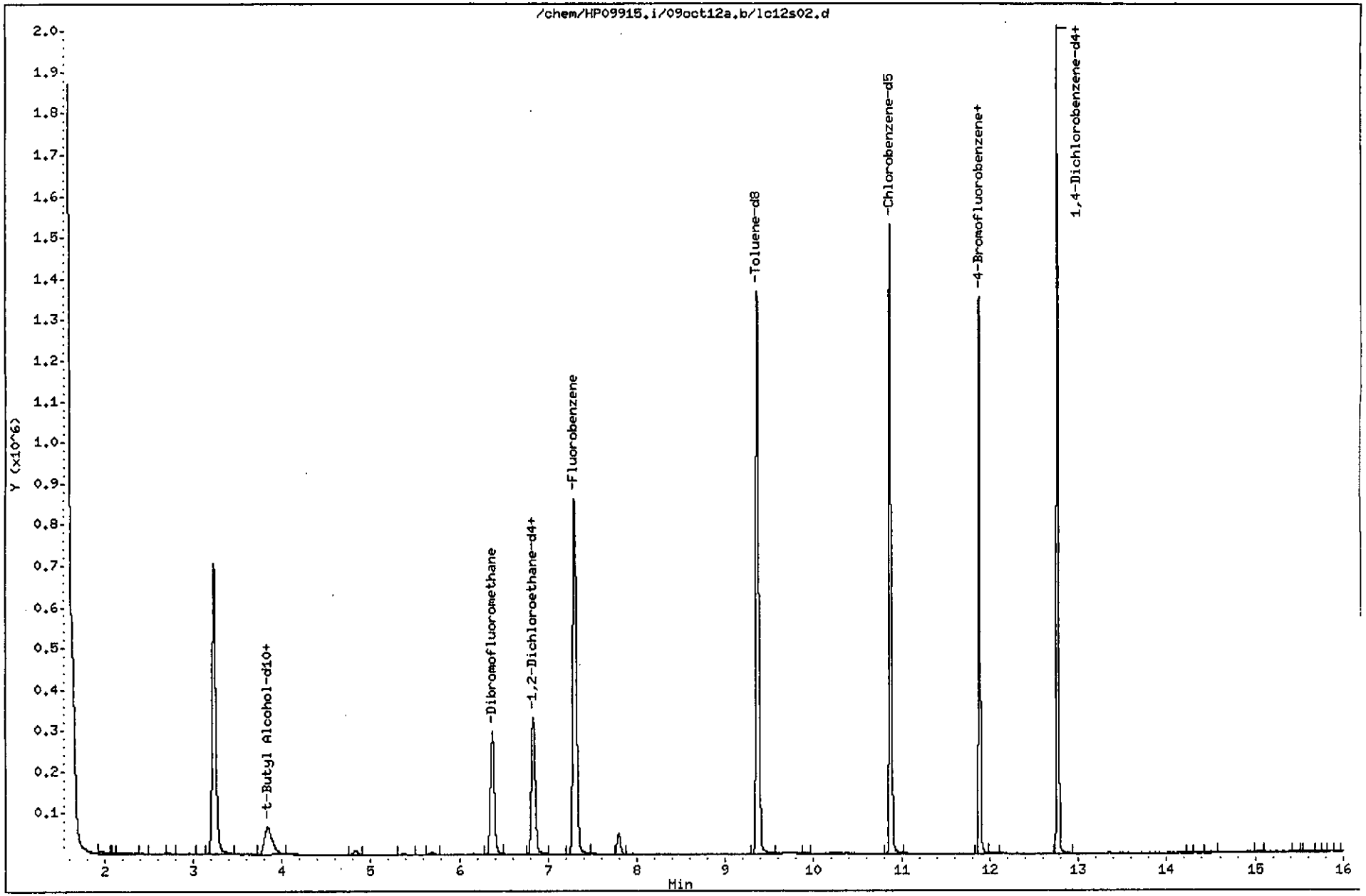
Data File: /chem/HP09915.i/09oct12a.b/lc12s02.d
Date : 12-OCT-2009 20:22
Client ID: PA10ADL
Sample Info: PA10ADL;5796199;1;0;;;;;;;
Purge Volume: 0.5
Column phase: DB-624

Instrument: HP09915.i

Operator: MAZ02012
Column diameter: 0.25

MAZ 10/12/09

PTL83 0112



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct12a.b/1c12s02.d Instrument ID: HP09915.i
Injection date and time: 12-OCT-2009 20:22 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct12a.b/L8260W.m Sublist used: MWH
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 21:27 maz02012

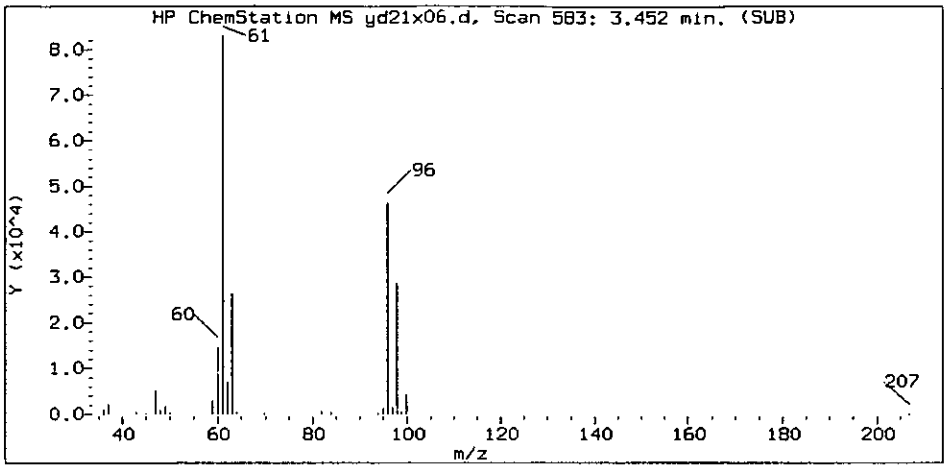
Sample Name: PA10ADL Lab Sample ID: 5796199

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
19) 1,1-Dichloroethene	(1)	3.234	96	373157	76.037
30)*t-Butyl Alcohol-d10	(4)	3.842	65	219124	250.000
36) 1,1-Dichloroethane	(1)	4.832	63	17395	1.558
72)*Fluorobenzene	(1)	7.304	96	1131607	50.000
76) Trichloroethene	(1)	7.796	95	22734	3.740
104)*Chlorobenzene-d5	(2)	10.873	117	827582	50.000
137)*1,4-Dichlorobenzene-d4	(3)	12.767	152	458357	50.000
54)$Dibromofluoromethane	(1)	6.378	113	276239	47.689
64)$1,2-Dichloroethane-d4	(1)	6.835	102	65511	46.834
91)$Toluene-d8	(2)	9.375	98	1129226	48.950
119)$4-Bromofluorobenzene	(2)	11.880	95	392716	47.989

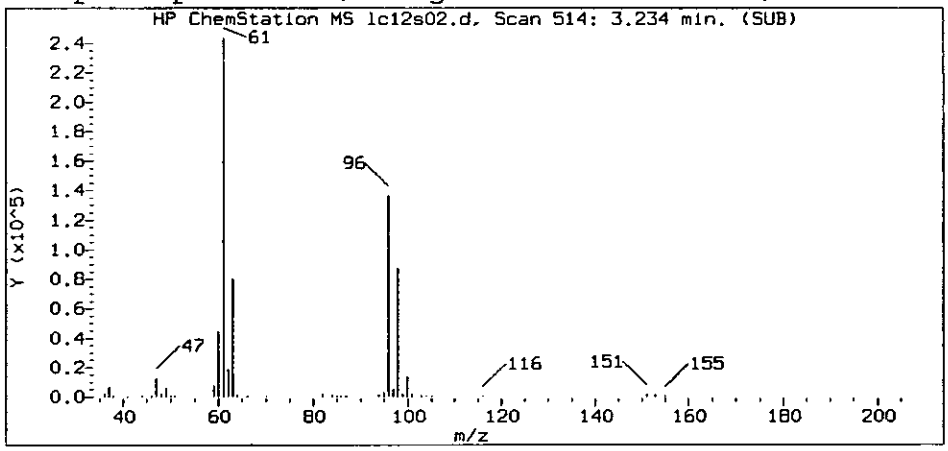
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PTL03 0113

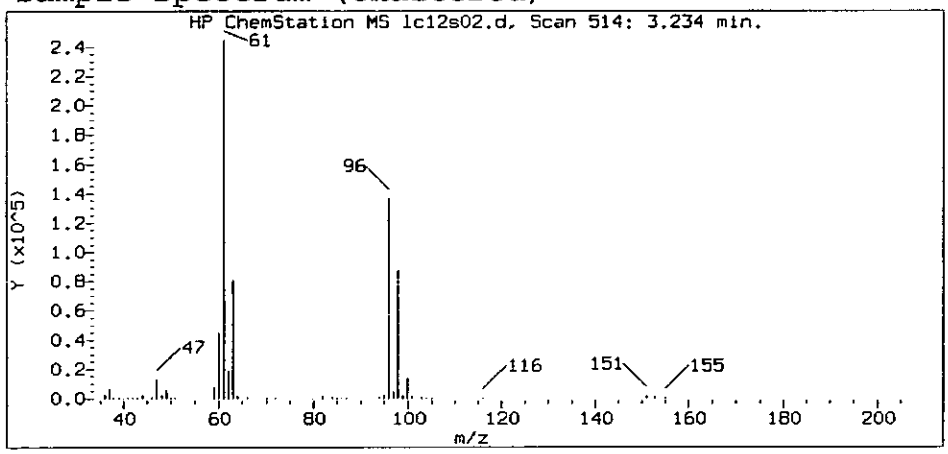
Reference Standard Spectrum for 1,1-Dichloroethene

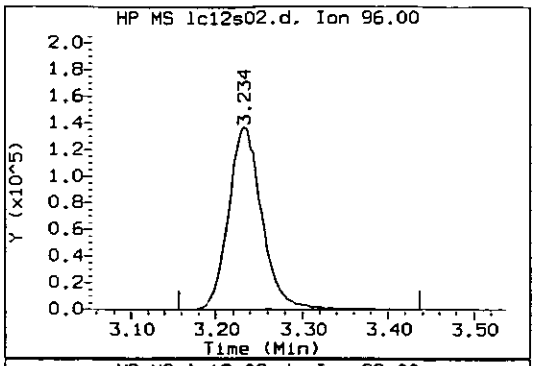


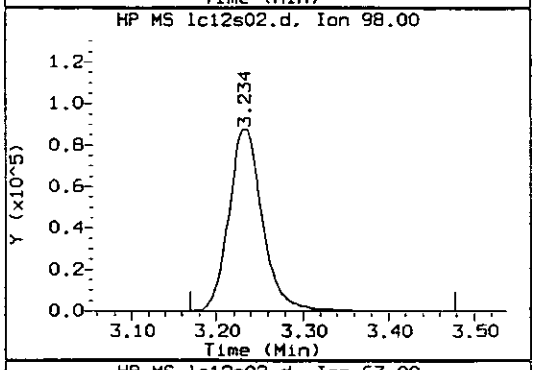
Sample Spectrum (Background Subtracted)

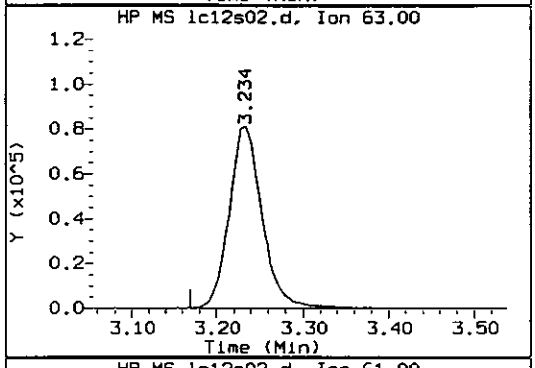


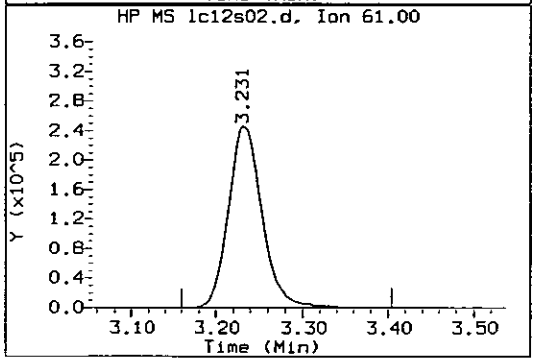
Sample Spectrum (Unaltered)











Data File: /chem/HP09915.i/09oct12a.b/lc12s02.d Instrument ID: HP09915.i
Injection date and time: 12-OCT-2009 20:22 Analyst ID: MAZ02012

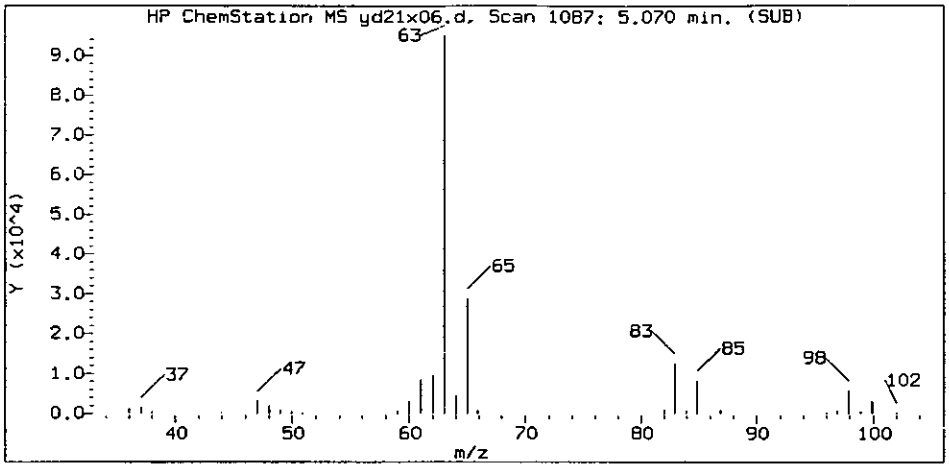
Method used: /chem/HP09915.i/09oct12a.b/L8260W.m Sublist used: MWH
Calibration date and time: 12-OCT-2009 19:26
Date, time and analyst ID of latest file update: 12-Oct-2009 21:27 maz02012

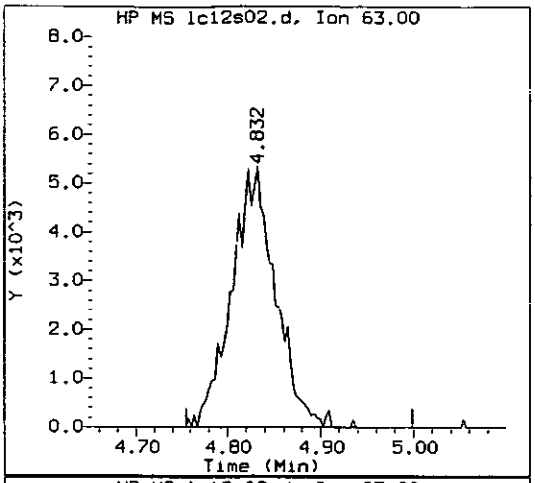
Sample Name: PA10ADL Lab Sample ID: 5796199

Compound Number	: 19
Compound Name	: 1,1-Dichloroethene
Scan Number	: 514
Retention Time (minutes)	: 3.234
Quant Ion	: 96.0
Area (flag)	: 373157
Concentration (ug/L)	: 76.0374

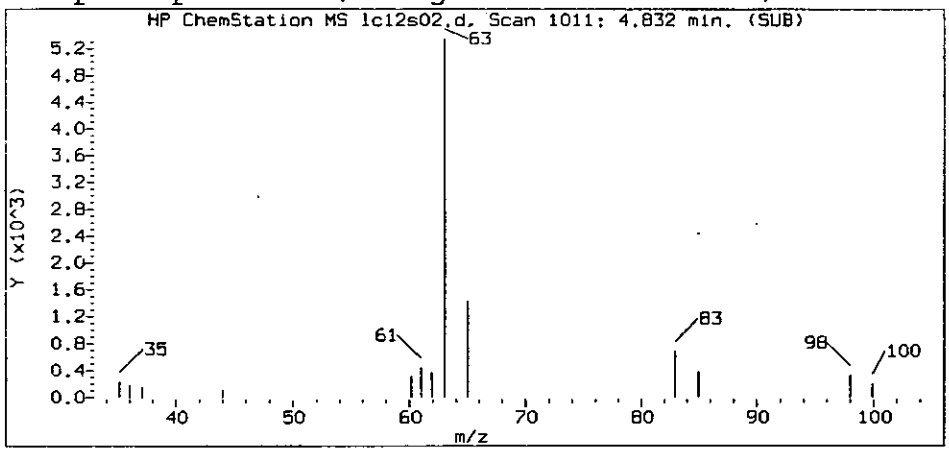
PTL03 8114

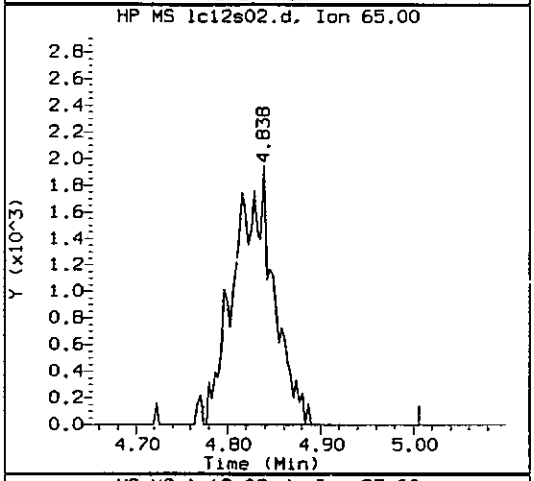
Reference Standard Spectrum for 1,1-Dichloroethane



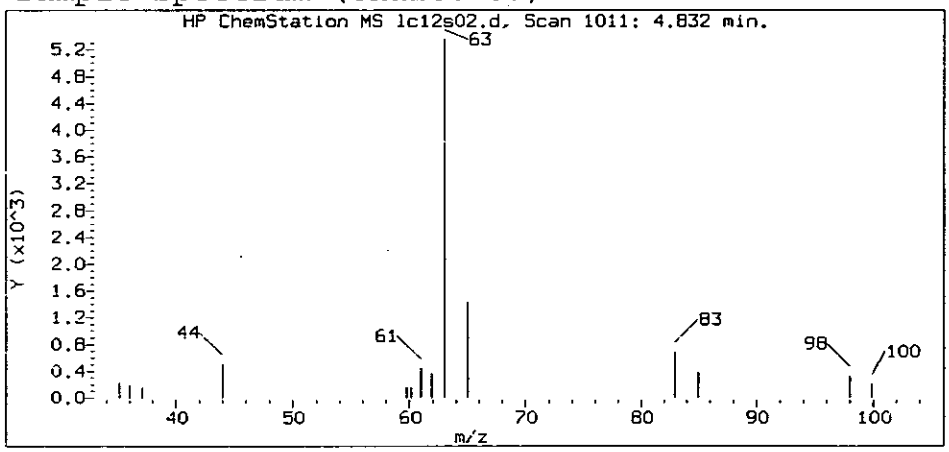


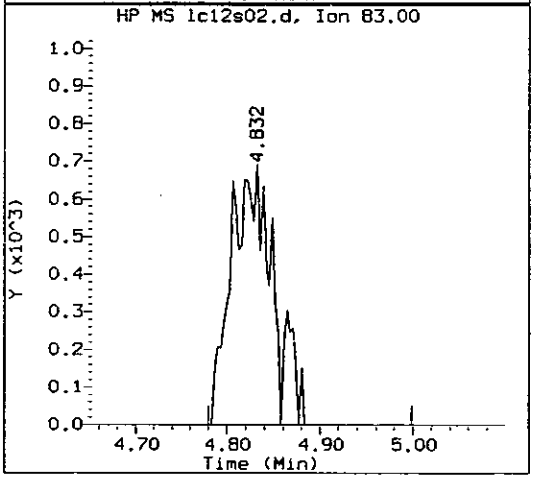
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09915.i/09oct12a.b/lc12s02.d Instrument ID: HP09915.i
Injection date and time: 12-OCT-2009 20:22 Analyst ID: MAZ02012

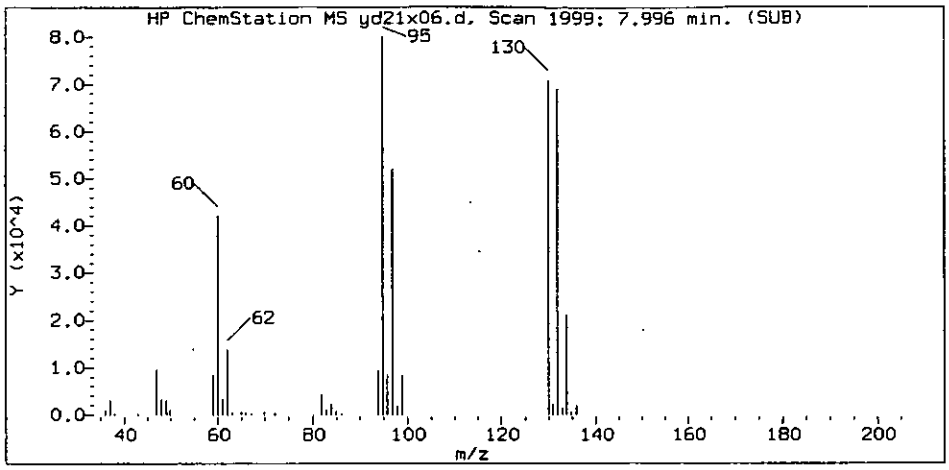
Method used: /chem/HP09915.i/09oct12a.b/L8260W.m Sublist used: MWH
Calibration date and time: 12-OCT-2009 19:26
Date, time and analyst ID of latest file update: 12-Oct-2009 21:27 maz02012

Sample Name: PA10ADL Lab Sample ID: 5796199

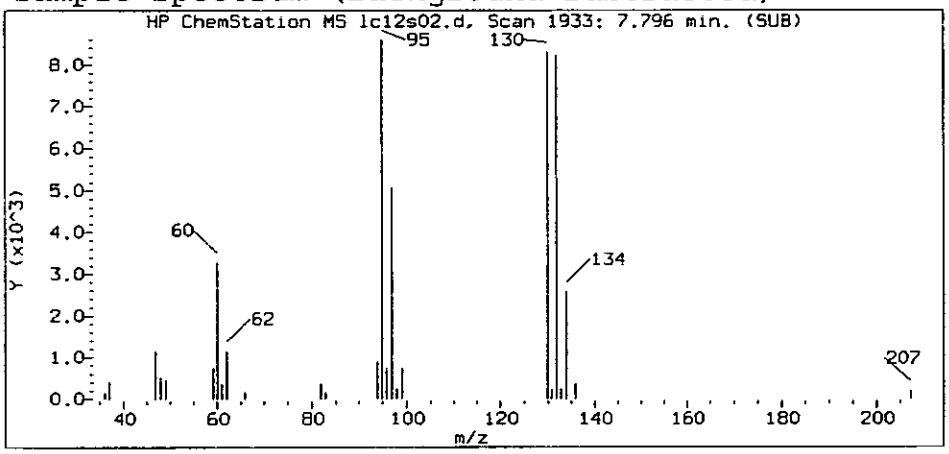
Compound Number	: 36
Compound Name	: 1,1-Dichloroethane
Scan Number	: 1011
Retention Time (minutes)	: 4.832
Quant Ion	: 63.0
Area (flag)	: 17395
Concentration (ug/L)	: 1.5577

PTL83 0115

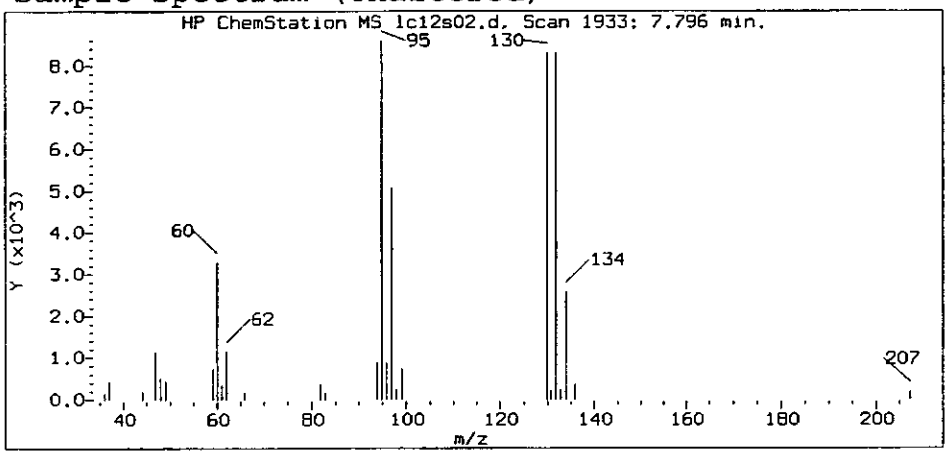
Reference Standard Spectrum for Trichloroethene

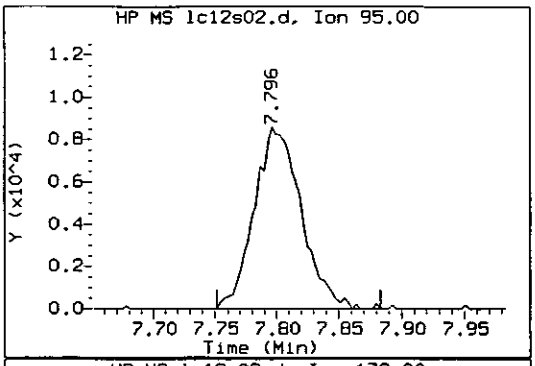


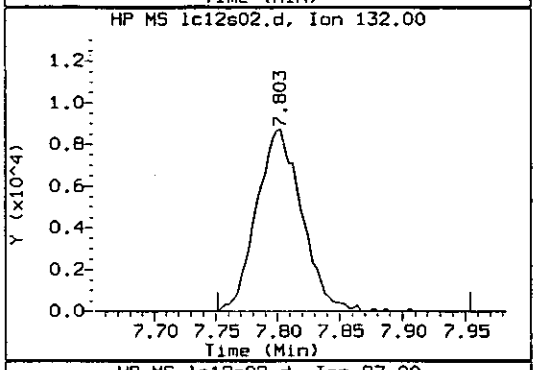
Sample Spectrum (Background Subtracted)

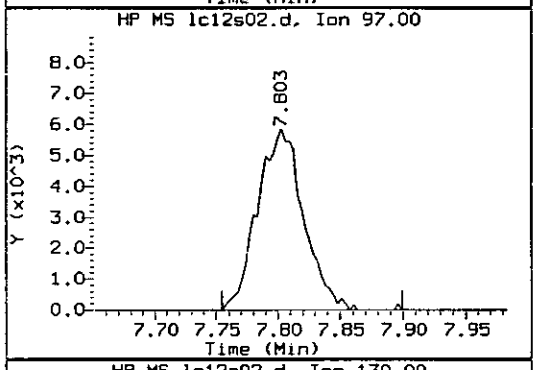


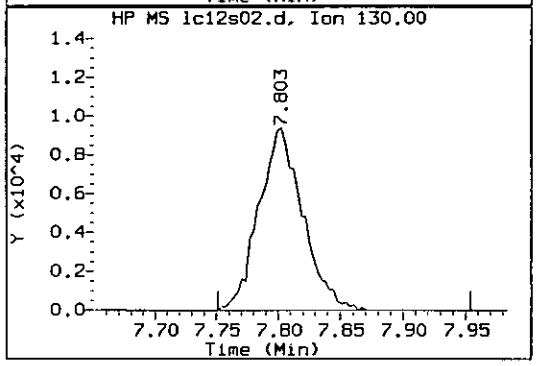
Sample Spectrum (Unaltered)











Data File: /chem/HP09915.i/09oct12a.b/lc12s02.d Instrument ID: HP09915.i
Injection date and time: 12-OCT-2009 20:22 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct12a.b/L8260W.m Sublist used: MWH
Calibration date and time: 12-OCT-2009 19:26
Date, time and analyst ID of latest file update: 12-Oct-2009 21:27 maz02012

Sample Name: PA10ADL Lab Sample ID: 5796199

Compound Number	: 76
Compound Name	: Trichloroethene
Scan Number	: 1933
Retention Time (minutes)	: 7.796
Quant Ion	: 95.0
Area (flag)	: 22734
Concentration (ug/L)	: 3.7403

PTL83 0116

PA15D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796200

File: /chem/HP09915.i/09oct12a.b/lc12s01.d
Sample: PA15D;5796200;1;0;;;;;;;
Injected At:12-OCT-2009 20:01
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc12b01.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092851AA
Analyst:MAZ02012
Instrument ID:HP09915.i
Standard Reference: lc12c01.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38B

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.826(0.016)	698	65	234934(-6)	250.00	
72) Fluorobenzene	7.301(0.000)	1779	96	1176519(-5)	50.00	
104) Chlorobenzene-d5	10.870(0.003)	2889	117	852575(-6)	50.00	
137) 1,4-Dichlorobenzene-d4	12.767(0.000)	3479	152	465694(-11)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.366(0.000)	113	284370	47.218	94%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.829(0.000)	102	69261	47.625	95%		77 - 113
91) Toluene-d8	(2)	9.372(0.000)	98	1157486	48.705	97%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.883(0.000)	95	408634	48.471	97%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Reporting Qual.	Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
8) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
19) 1,1-Dichloroethene	(1)	3.218(0.001)	96	344429	67.504	67.50			0.80	5.00
21) Acetone	(1)				ND	ND			6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
36) 1,1-Dichloroethane	(1)	4.816(0.000)	63	21572	1.858	1.86		J	1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
45) 2-Butanone	(1)				ND	ND			3.00	10.00
46) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
51) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)				ND	ND			0.80	5.00
57) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
61) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
62) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTI03 0117

PA15D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796200

File: /chem/HP09915.i/09oct12a.b/lc12s01.d
Sample: PA15D;5796200;1;0;;;;;;;
Injected At:12-OCT-2009 20:01
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc12b01.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092851AA
Analyst:MAZ02012
Instrument ID:HP09915.i
Standard Reference: lc12c01.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38B

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
80) Dibromomethane	(1)					ND	ND			1.00	5.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
107) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
108) Ethylbenzene	(2)					ND	ND			0.80	5.00
109) m+p-Xylene	(2)					ND	ND			0.80	5.00
111) o-Xylene	(2)					ND	ND			0.80	5.00
112) Styrene	(2)					ND	ND			1.00	5.00
113) Bromoform	(2)					ND	ND			1.00	5.00
115) Isopropylbenzene	(2)					ND	ND			1.00	5.00
120) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0118

PA15D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796200

File: /chem/HP09915.i/09oct12a.b/lc12s01.d
Sample: PA15D;5796200;1;0;;;;;;;
Injected At:12-OCT-2009 20:01
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc12b01.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092851AA
Analyst:MAZ02012
Instrument ID:HP09915.i
Standard Reference: lc12c01.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38B

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
143) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
147) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
148) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
149) Naphthalene	(3)					ND	ND			1.00	5.00
150) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

Analyst: MZ [illegible] Date: 10/12/09

Auditor: [illegible] Date: 10/13/09

PTL83 0119

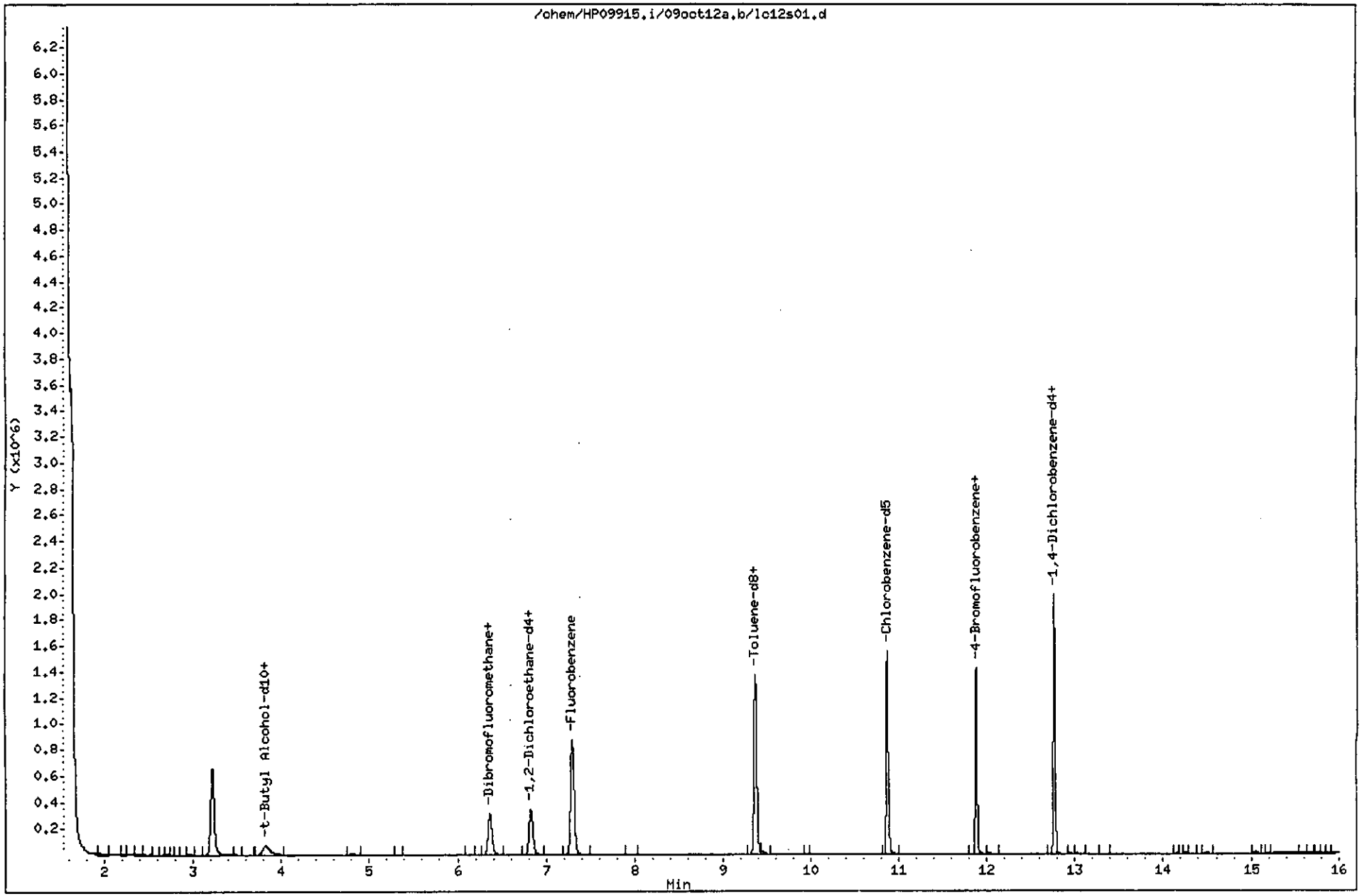
Data File: /chem/HP09915.i/09oct12a.b/lc12s01.d
Date : 12-OCT-2009 20:01
Client ID: PA15D
Sample Info: PA15D;5796200;1;0;;;;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: MAZ02012
Column diameter: 0.25

mx/ron 10/12/09

PTL03.0128



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct12a.b/lc12s01.d Instrument ID: HP09915.i
Injection date and time: 12-OCT-2009 20:01 Analyst ID: MAZ02012

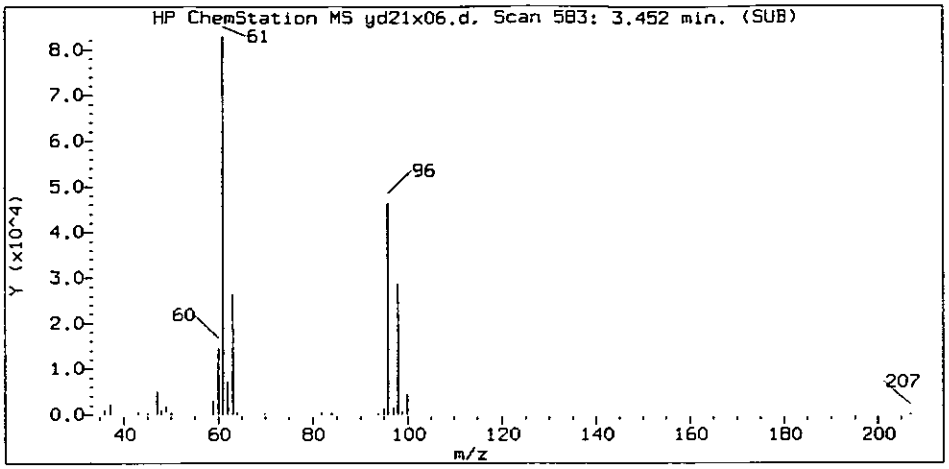
Method used: /chem/HP09915.i/09oct12a.b/L8260W.m Sublist used: MWH
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 21:26 maz02012

Sample Name: PA15D Lab Sample ID: 5796200

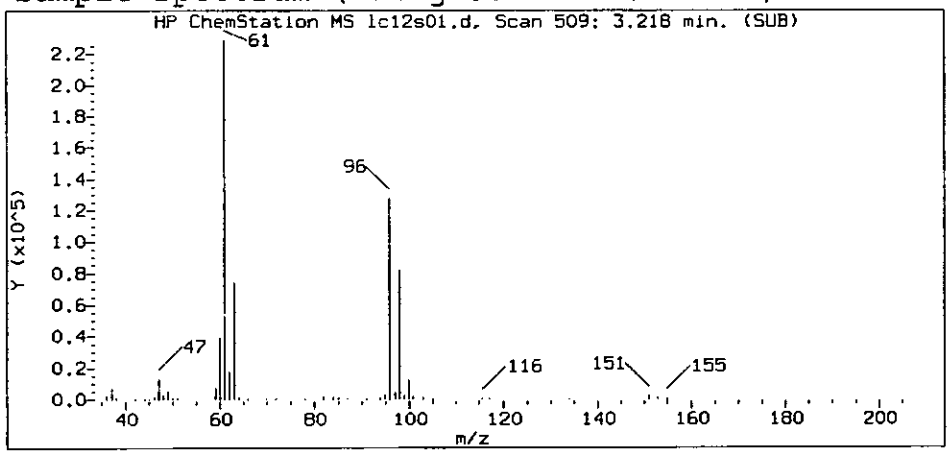
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
19) 1,1-Dichloroethene	(1)	3.218	96	344429	67.504
30)*t-Butyl Alcohol-d10	(4)	3.826	65	234934	250.000
36) 1,1-Dichloroethane	(1)	4.816	63	21572	1.858
72)*Fluorobenzene	(1)	7.301	96	1176519	50.000
104)*Chlorobenzene-d5	(2)	10.870	117	852575	50.000
137)*1,4-Dichlorobenzene-d4	(3)	12.767	152	465694	50.000
54)$Dibromofluoromethane	(1)	6.366	113	284370	47.218
64)$1,2-Dichloroethane-d4	(1)	6.829	102	69261	47.625
91)$Toluene-d8	(2)	9.372	98	1157486	48.705
119)$4-Bromofluorobenzene	(2)	11.883	95	408634	48.471

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

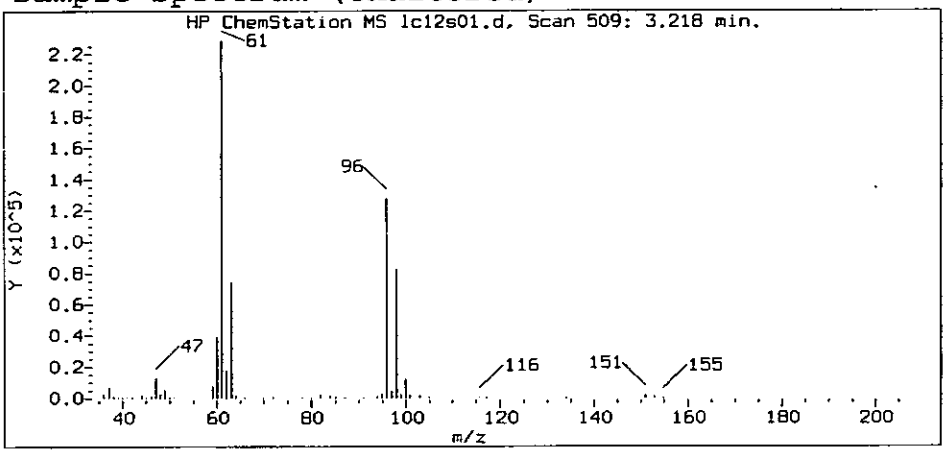
Reference Standard Spectrum for 1,1-Dichloroethene

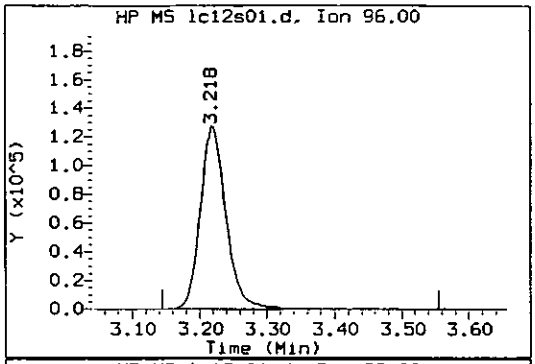


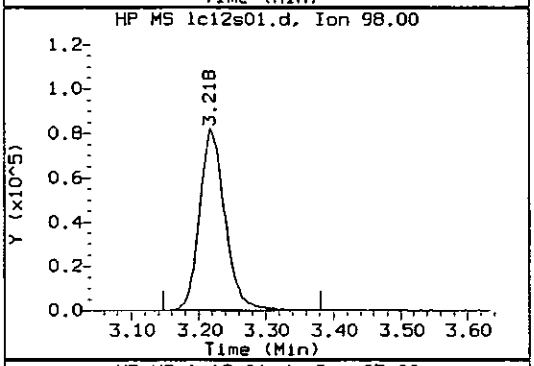
Sample Spectrum (Background Subtracted)

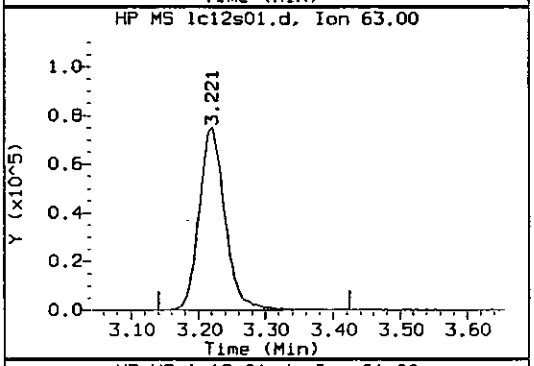


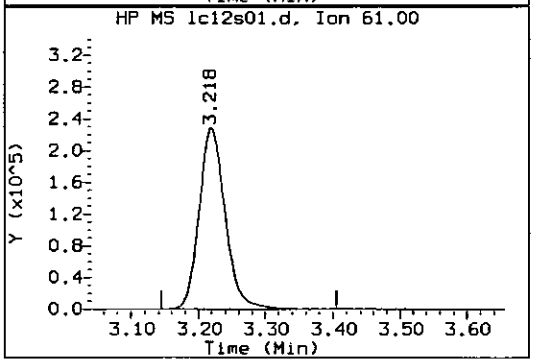
Sample Spectrum (Unaltered)











Data File: /chem/HP09915.i/09oct12a.b/lc12s01.d Instrument ID: HP09915.i
Injection date and time: 12-OCT-2009 20:01 Analyst ID: MAZ02012

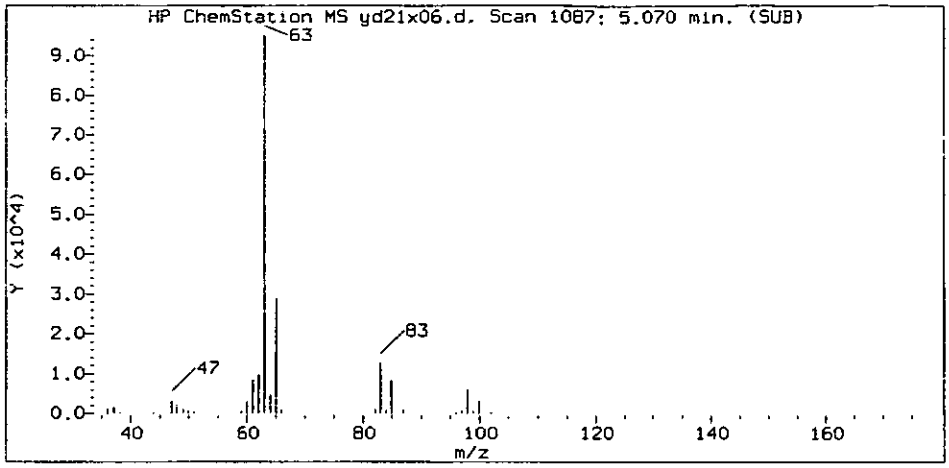
Method used: /chem/HP09915.i/09oct12a.b/L8260W.m Sublist used: MWH
Calibration date and time: 12-OCT-2009 19:26
Date, time and analyst ID of latest file update: 12-Oct-2009 21:26 maz02012

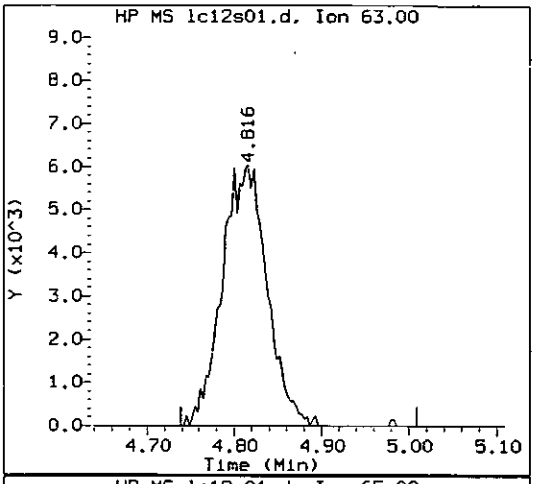
Sample Name: PA15D Lab Sample ID: 5796200

Compound Number	: 19
Compound Name	: 1,1-Dichloroethene
Scan Number	: 509
Retention Time (minutes)	: 3.218
Quant Ion	: 96.0
Area (flag)	: 344429
Concentration (ug/L)	: 67.5044

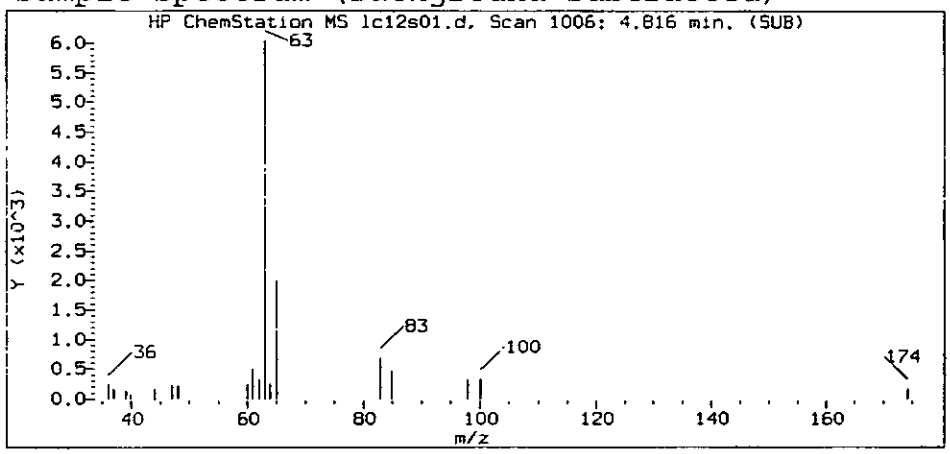
PTL03 0122

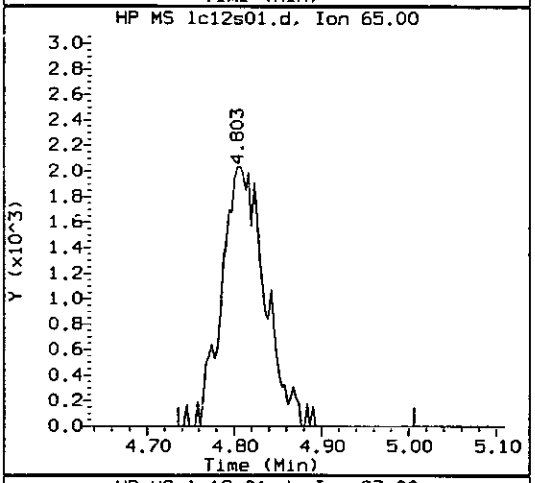
Reference Standard Spectrum for 1,1-Dichloroethane



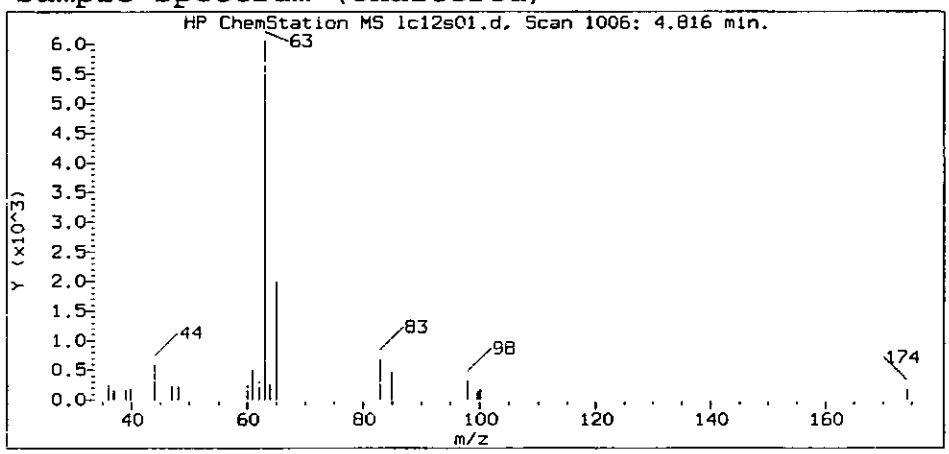


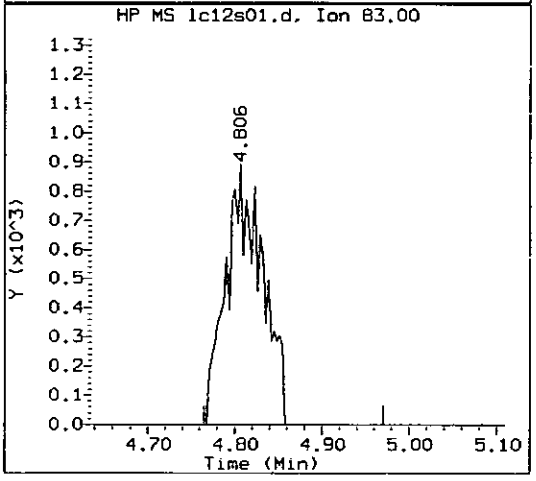
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09915.i/09oct12a.b/lc12s01.d Instrument ID: HP09915.i
Injection date and time: 12-OCT-2009 20:01 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct12a.b/L8260W.m Sublist used: MWH
Calibration date and time: 12-OCT-2009 19:26
Date, time and analyst ID of latest file update: 12-Oct-2009 21:26 maz02012

Sample Name: PA15D Lab Sample ID: 5796200

Compound Number	: 36
Compound Name	: 1,1-Dichloroethane
Scan Number	: 1006
Retention Time (minutes)	: 4.816
Quant Ion	: 63.0
Area (flag)	: 21572
Concentration (ug/L)	: 1.8580

PTL83 0123

PATD1

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796201

File: /chem/HP09915.i/09oct09b.b/lc09s63.d
Sample: PATD1;5796201;1;0;;;;;;;
Injected At:10-OCT-2009 00:40
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.842(-0.013)	703	65	173627(-18)	250.00	
72) Fluorobenzene	7.311(-0.006)	1782	96	925839(-15)	50.00	
104) Chlorobenzene-d5	10.874(-0.003)	2890	117	705304(-13)	50.00	
137) 1,4-Dichlorobenzene-d4	12.767(0.000)	3479	152	390046(-15)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.375(0.000)	113	229436	48.412	97%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.842(0.000)	102	53498	46.746	93%		77 - 113
91) Toluene-d8	(2)	9.379(0.000)	98	922478	46.921	94%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.883(0.000)	95	328366	47.082	94%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
8) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
19) 1,1-Dichloroethene	(1)				ND	ND			0.80	5.00
21) Acetone	(1)				ND	ND			6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
36) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
45) 2-Butanone	(1)				ND	ND			3.00	10.00
46) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
51) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)				ND	ND			0.80	5.00
57) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
61) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
62) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL83 8124

PATD1

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5796201

File: /chem/HP09915.i/09oct09b.b/lc09s63.d
Sample: PATD1;5796201;1;0;;;;;;;
Injected At:10-OCT-2009 00:40
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
80) Dibromomethane	(1)					ND	ND			1.00	5.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
107) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
108) Ethylbenzene	(2)					ND	ND			0.80	5.00
109) m+p-Xylene	(2)					ND	ND			0.80	5.00
111) o-Xylene	(2)					ND	ND			0.80	5.00
112) Styrene	(2)					ND	ND			1.00	5.00
113) Bromoform	(2)					ND	ND			1.00	5.00
115) Isopropylbenzene	(2)					ND	ND			1.00	5.00
120) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 8125

PATD1

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796201

File: /chem/HP09915.i/09oct09b.b/lc09s63.d
Sample: PATD1;5796201;1;0;;;;;;;
Injected At:10-OCT-2009 00:40
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
143) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
147) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
148) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
149) Naphthalene	(3)					ND	ND			1.00	5.00
150) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

Analyst: CBEAA Date: 10/14/09

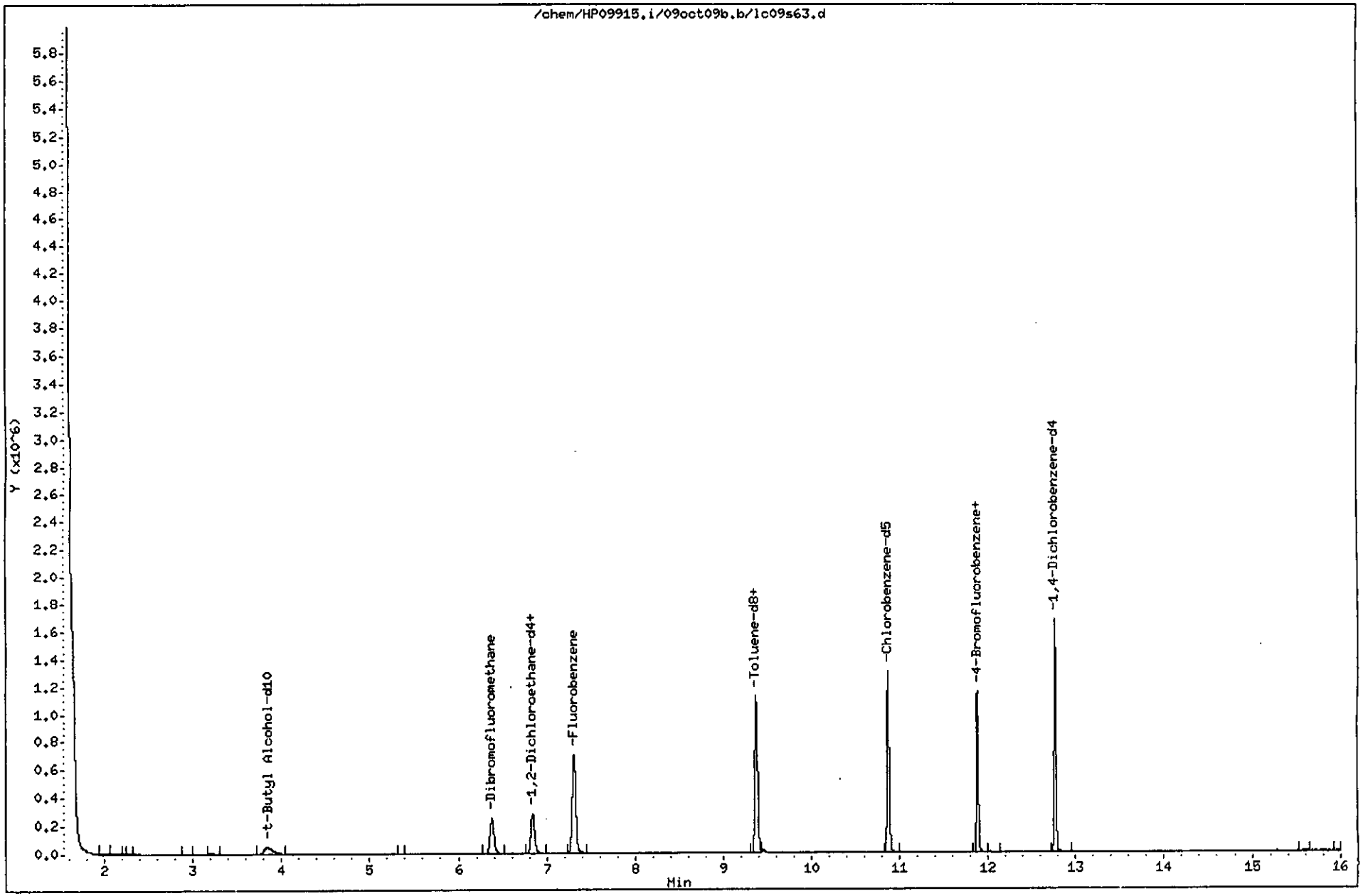
Auditor: MA Date: 10/14/09

PTL83 8126

Data File: /chem/HP09915.i/09oct09b.b/lc09s63.d
Date : 10-OCT-2009 00:40
Client ID: PATD1
Sample Info: PATD1;5796201;1;0;;;;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: KDP02245
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct09b.b/lc09s63.d Instrument ID: HP09915.i
Injection date and time: 10-OCT-2009 00:40 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: MWH
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 22:37 maz02012

Sample Name: PATD1 Lab Sample ID: 5796201

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
30)*t-Butyl Alcohol-d10	(4)	3.842	65	173627	250.000
72)*Fluorobenzene	(1)	7.311	96	925839	50.000
104)*Chlorobenzene-d5	(2)	10.874	117	705304	50.000
137)*1,4-Dichlorobenzene-d4	(3)	12.767	152	390046	50.000
54)$Dibromofluoromethane	(1)	6.375	113	229436	48.412
64)$1,2-Dichloroethane-d4	(1)	6.842	102	53498	46.746
91)$Toluene-d8	(2)	9.379	98	922478	46.921
119)$4-Bromofluorobenzene	(2)	11.883	95	328366	47.082

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PTL83 8128

PA16S

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5796202

File: /chem/HP09915.i/09oct09b.b/lc09s64.d
Sample: PA16S;5796202;1;0;;;;;;;
Injected At:10-OCT-2009 01:02
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.829(0.000)	699	65	176609(-17)	250.00	
72) Fluorobenzene	7.308(-0.003)	1781	96	936771(-14)	50.00	
104) Chlorobenzene-d5	10.874(-0.003)	2890	117	708721(-12)	50.00	
137) 1,4-Dichlorobenzene-d4	12.767(0.000)	3479	152	391446(-14)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.372(0.000)	113	231583	48.295	97%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.842(-0.001)	102	55437	47.875	96%		77 - 113
91) Toluene-d8	(2)	9.375(0.000)	98	932703	47.212	94%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.883(0.000)	95	332098	47.388	95%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
8) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
19) 1,1-Dichloroethene	(1)				ND	ND			0.80	5.00
21) Acetone	(1)				ND	ND			6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
36) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
45) 2-Butanone	(1)				ND	ND			3.00	10.00
46) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
51) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)				ND	ND			0.80	5.00
57) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
61) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
62) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL83-8129

PA16S

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796202

File: /chem/HP09915.i/09oct09b.b/lc09s64.d
Sample: PA16S;5796202;1;0;;;;;;;
Injected At:10-OCT-2009 01:02
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
80) Dibromomethane	(1)					ND	ND			1.00	5.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
107) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
108) Ethylbenzene	(2)					ND	ND			0.80	5.00
109) m+p-Xylene	(2)					ND	ND			0.80	5.00
111) o-Xylene	(2)					ND	ND			0.80	5.00
112) Styrene	(2)					ND	ND			1.00	5.00
113) Bromoform	(2)					ND	ND			1.00	5.00
115) Isopropylbenzene	(2)					ND	ND			1.00	5.00
120) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0130

PA16S

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796202

File: /chem/HP09915.i/09oct09b.b/lc09s64.d
Sample: PA16S;5796202;1;0;;;;;;;
Injected At:10-OCT-2009 01:02
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
143) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
147) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
148) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
149) Naphthalene	(3)					ND	ND			1.00	5.00
150) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

Analyst: CBE1947 Date: 10/14/09

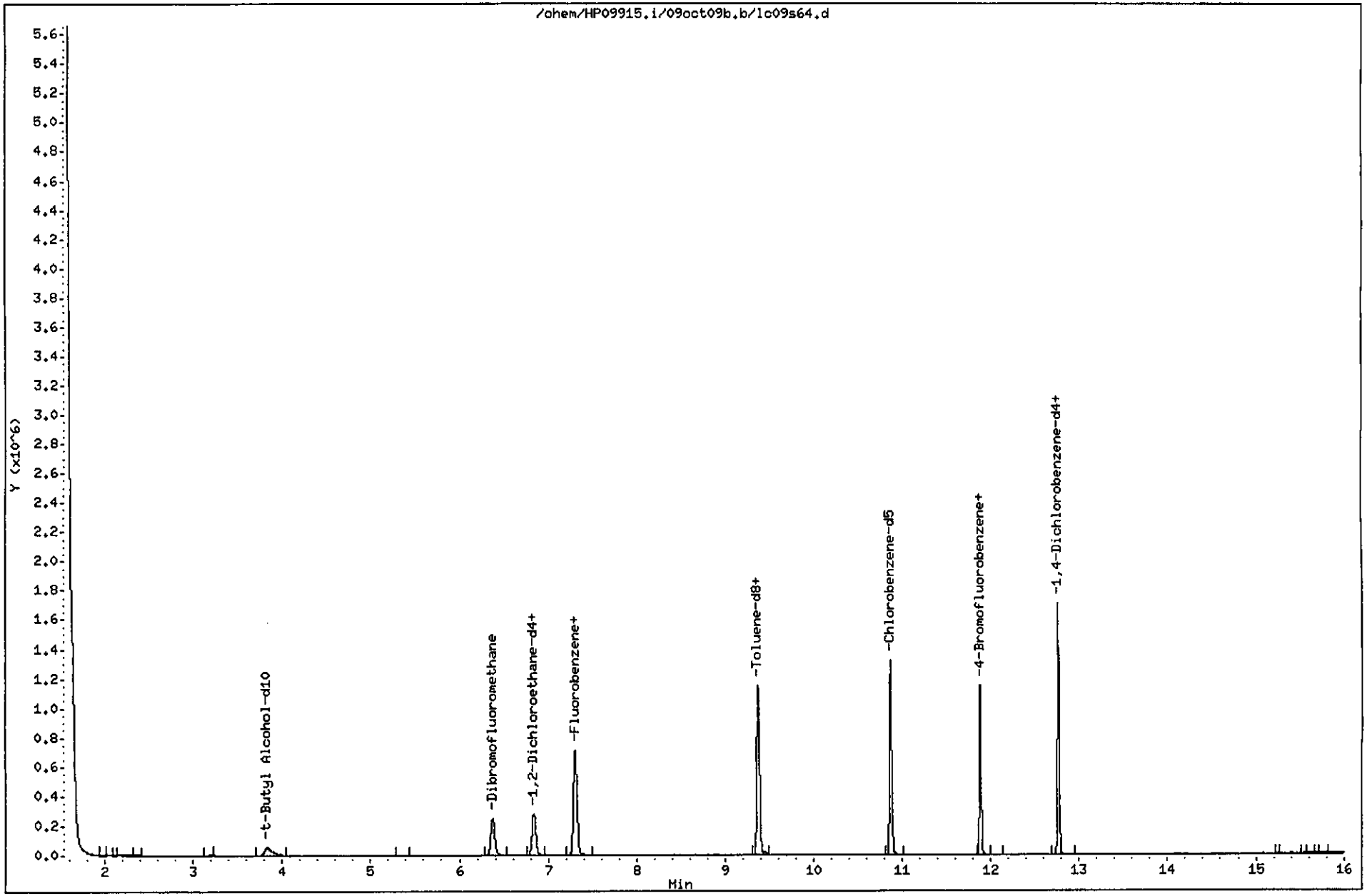
Auditor: [signature] Date: 10/14/09

PTL03 0131

Data File: /chem/HP09915.i/09oct09b.b/lc09s64.d
Date : 10-OCT-2009 01:02
Client ID: PA16S
Sample Info: PA16S;5796202;1;0;;;;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: KDP02245
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct09b.b/lc09s64.d Instrument ID: HP09915.i
Injection date and time: 10-OCT-2009 01:02 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: MWH
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 22:37 maz02012

Sample Name: PA16S Lab Sample ID: 5796202

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
30)*t-Butyl Alcohol-d10	(4)	3.829	65	176609	250.000
72)*Fluorobenzene	(1)	7.308	96	936771	50.000
104)*Chlorobenzene-d5	(2)	10.874	117	708721	50.000
137)*1,4-Dichlorobenzene-d4	(3)	12.767	152	391446	50.000
54)$Dibromofluoromethane	(1)	6.372	113	231583	48.295
64)$1,2-Dichloroethane-d4	(1)	6.842	102	55437	47.875
91)$Toluene-d8	(2)	9.375	98	932703	47.212
119)$4-Bromofluorobenzene	(2)	11.883	95	332098	47.388

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PTL83 0133

PA17D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796203

File: /chem/HP09915.i/09oct09b.b/lc09s65.d
Sample: PA17D;5796203;1;0;;;;;;;
Injected At:10-OCT-2009 01:23
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.832(-0.003)	700	65	171925(-19)	250.00	
72) Fluorobenzene	7.305(0.000)	1780	96	905543(-16)	50.00	
104) Chlorobenzene-d5	10.874(-0.003)	2890	117	681697(-16)	50.00	
137) 1,4-Dichlorobenzene-d4	12.767(0.000)	3479	152	382915(-16)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.372(0.000)	113	222485	47.997	96%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.838(-0.001)	102	53618	47.901	96%		77 - 113
91) Toluene-d8	(2)	9.375(0.000)	98	917273	48.272	97%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.883(0.000)	95	320671	47.571	95%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
8) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
19) 1,1-Dichloroethene	(1)	3.224(0.000)	96	393307	100.151	100.15			0.80	5.00
21) Acetone	(1)				ND	ND			6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
36) 1,1-Dichloroethane	(1)	4.822(0.000)	63	16802	1.880	1.88		J	1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
45) 2-Butanone	(1)				ND	ND			3.00	10.00
46) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
51) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)				ND	ND			0.80	5.00
57) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
61) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
62) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 8134

PA17D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796203

File: /chem/HP09915.i/09oct09b.b/1c09s65.d
Sample: PA17D;5796203;1;0;;;;;;;
Injected At:10-OCT-2009 01:23
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: 1c09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: 1c09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
80) Dibromomethane	(1)					ND	ND			1.00	5.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
107) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
108) Ethylbenzene	(2)					ND	ND			0.80	5.00
109) m+p-Xylene	(2)					ND	ND			0.80	5.00
111) o-Xylene	(2)					ND	ND			0.80	5.00
112) Styrene	(2)					ND	ND			1.00	5.00
113) Bromoform	(2)					ND	ND			1.00	5.00
115) Isopropylbenzene	(2)					ND	ND			1.00	5.00
120) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL83.8135

PA17D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796203

File: /chem/HP09915.i/09oct09b.b/lc09s65.d
Sample: PA17D;5796203;1;0;;;;;;;
Injected At:10-OCT-2009 01:23
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:**L092822AA**
Analyst:**KDP02245**
Instrument ID:**HP09915.i**
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
143) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
147) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
148) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
149) Naphthalene	(3)					ND	ND			1.00	5.00
150) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

Analyst: CDE9/07 Date: 10/14/09

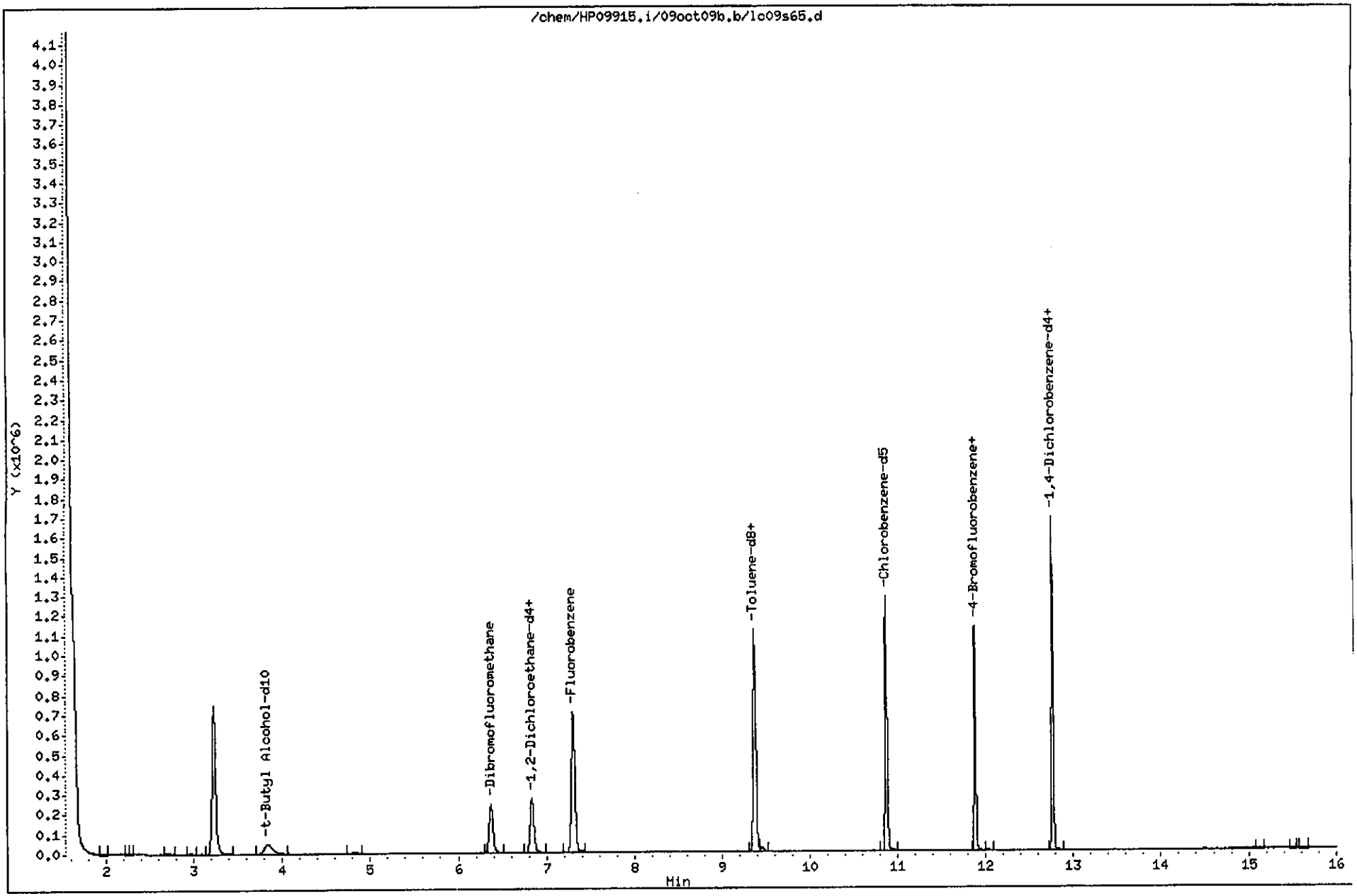
Auditor: _____ Date: 10/14/09

PTL03 8136

Data File: /chem/HP09915.i/09oct09b.b/lc09s65.d
Date : 10-OCT-2009 01:23
Client ID: PA17D
Sample Info: PA17D;5796203;1;0;;;;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i
Operator: KDP02245
Column diameter: 0.25

/chem/HP09915.i/09oct09b.b/lc09s65.d



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct09b.b/lc09s65.d Instrument ID: HP09915.i
Injection date and time: 10-OCT-2009 01:23 Analyst ID: KDP02245

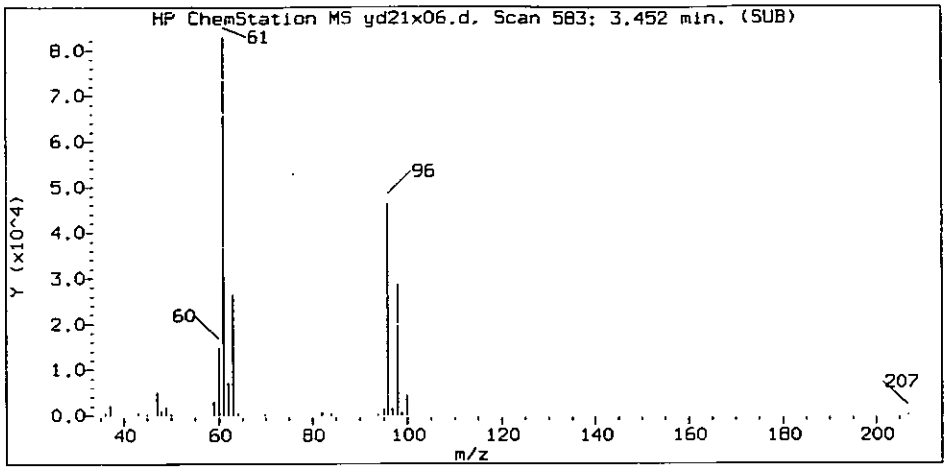
Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: MWH
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 22:37 maz02012

Sample Name: PA17D Lab Sample ID: 5796203

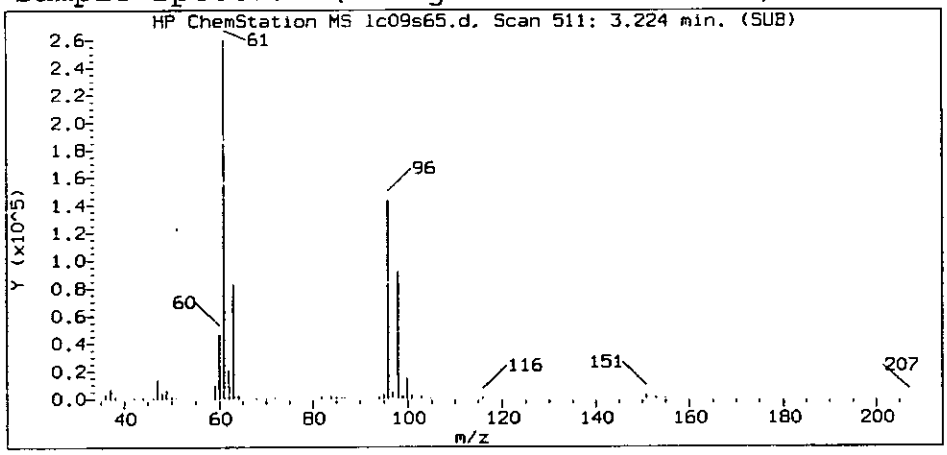
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
19) 1,1-Dichloroethene	(1)	3.224	96	393307	100.151
30)*t-Butyl Alcohol-d10	(4)	3.832	65	171925	250.000
36) 1,1-Dichloroethane	(1)	4.822	63	16802	1.880
72)*Fluorobenzene	(1)	7.305	96	905543	50.000
104)*Chlorobenzene-d5	(2)	10.874	117	681697	50.000
137)*1,4-Dichlorobenzene-d4	(3)	12.767	152	382915	50.000
54)$Dibromofluoromethane	(1)	6.372	113	222485	47.997
64)$1,2-Dichloroethane-d4	(1)	6.838	102	53618	47.901
91)$Toluene-d8	(2)	9.375	98	917273	48.272
119)$4-Bromofluorobenzene	(2)	11.883	95	320671	47.571

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

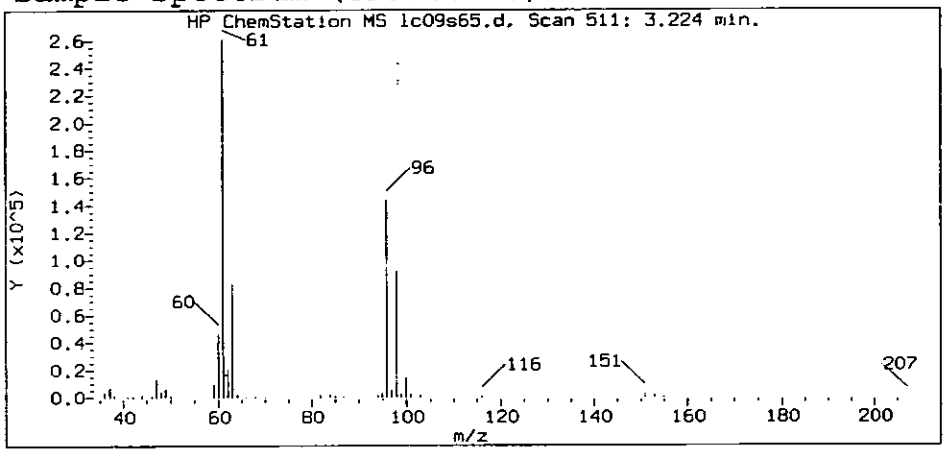
Reference Standard Spectrum for 1,1-Dichloroethene

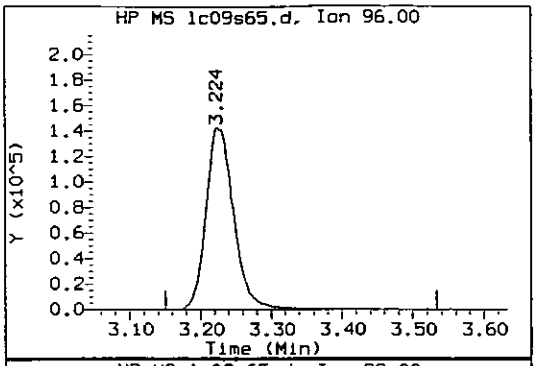


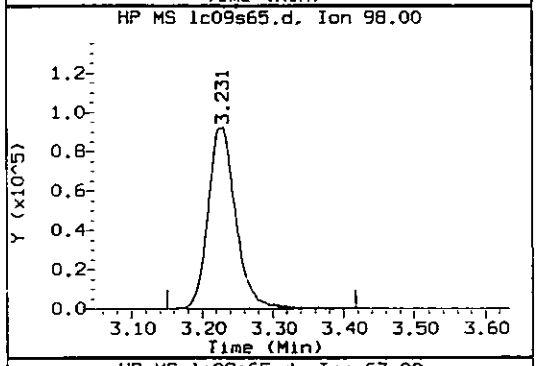
Sample Spectrum (Background Subtracted)

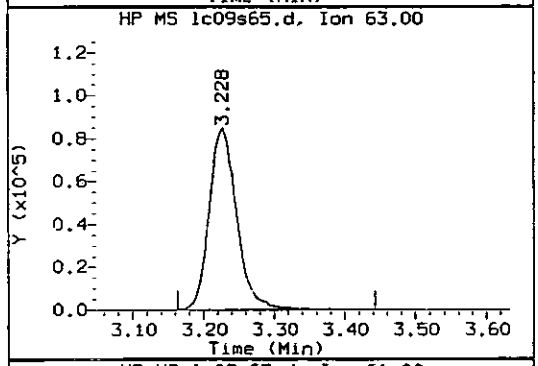


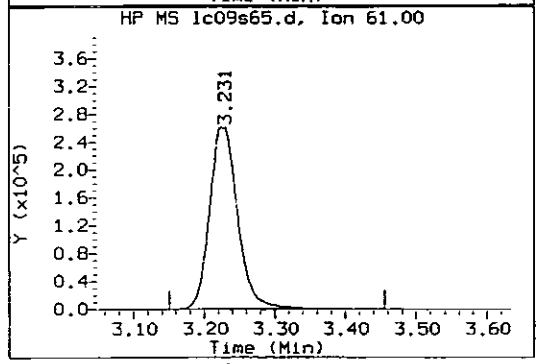
Sample Spectrum (Unaltered)











Data File: /chem/HP09915.i/09oct09b.b/lc09s65.d
Injection date and time: 10-OCT-2009 01:23

Instrument ID: HP09915.i
Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m
Calibration date and time: 12-OCT-2009 22:35

Sublist used: MWH

Date, time and analyst ID of latest file update: 12-Oct-2009 22:37 maz02012

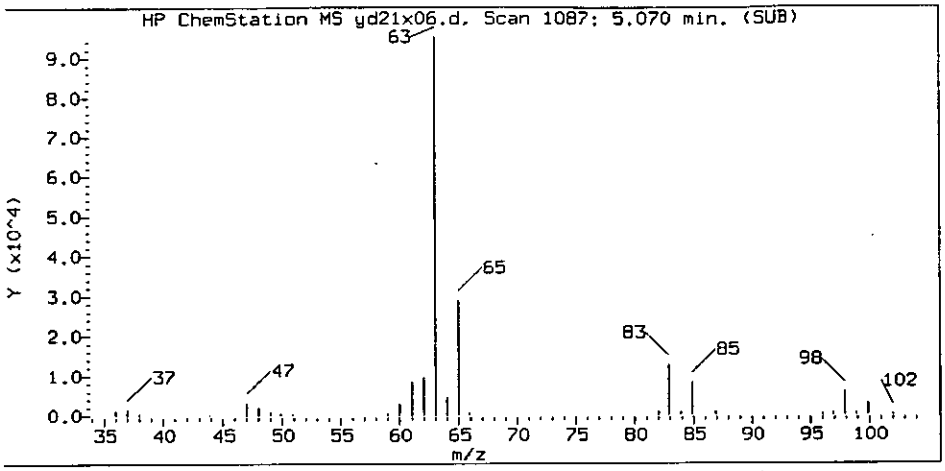
Sample Name: PA17D

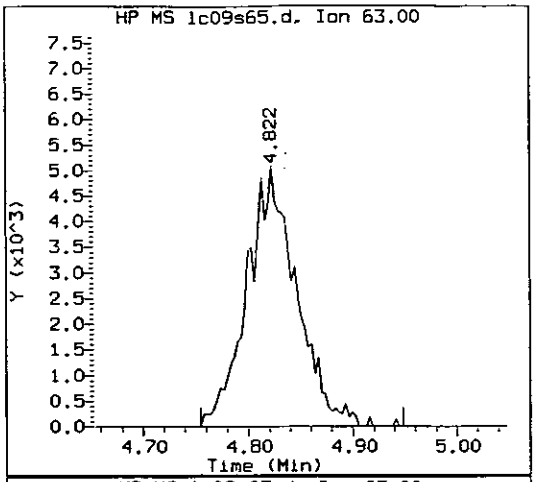
Lab Sample ID: 5796203

Compound Number	: 19
Compound Name	: 1,1-Dichloroethene
Scan Number	: 511
Retention Time (minutes)	: 3.224
Quant Ion	: 96.0
Area (flag)	: 393307
Concentration (ug/L)	: 100.1506

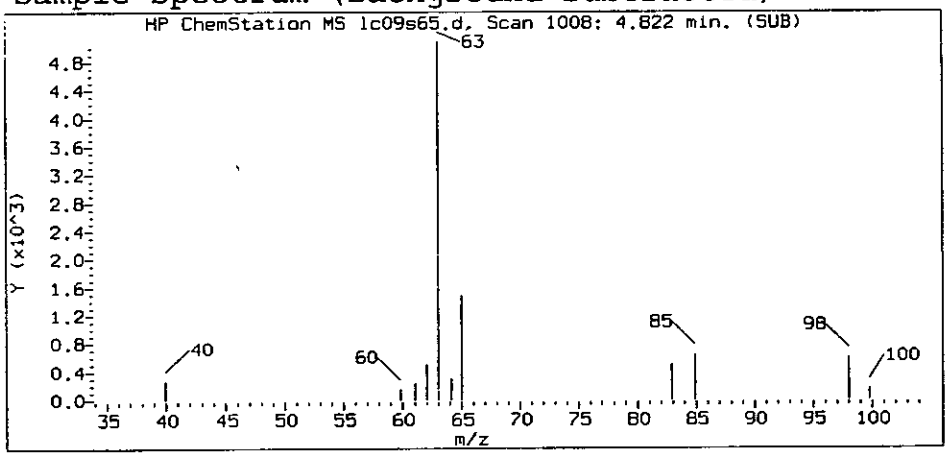
PTL03 0139

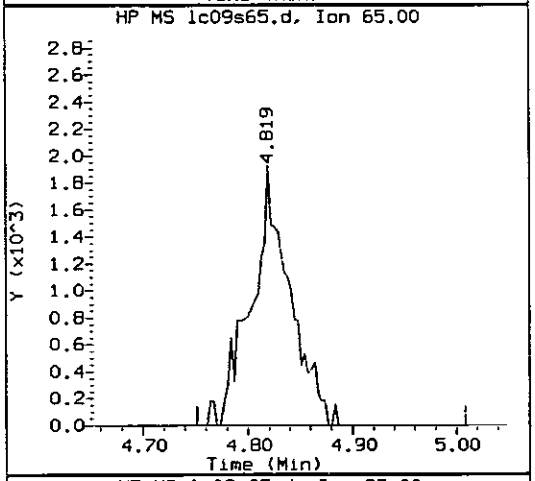
Reference Standard Spectrum for 1,1-Dichloroethane



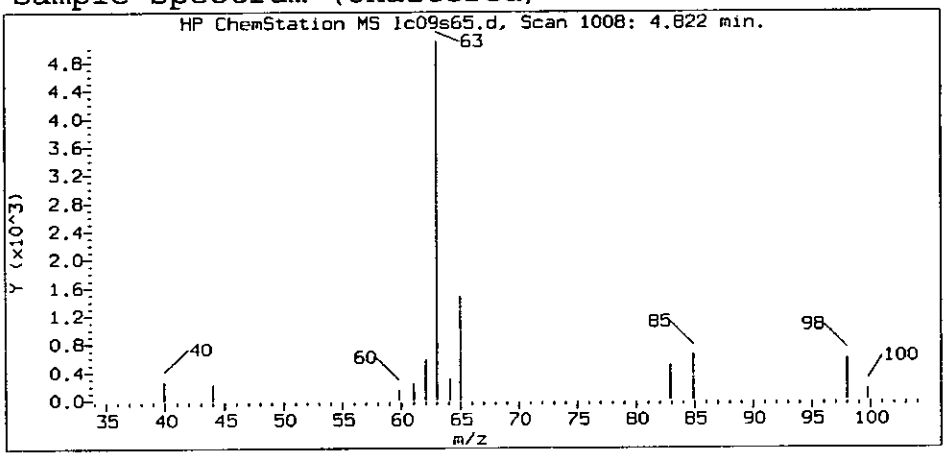


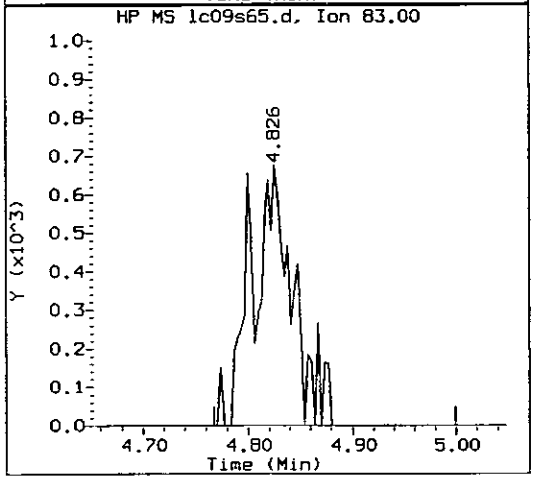
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09915.i/09oct09b.b/lc09s65.d
Injection date and time: 10-OCT-2009 01:23

Instrument ID: HP09915.i
Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m
Calibration date and time: 12-OCT-2009 22:35

Sublist used: MWH

Date, time and analyst ID of latest file update: 12-Oct-2009 22:37 maz02012

Sample Name: PA17D

Lab Sample ID: 5796203

Compound Number	: 36
Compound Name	: 1,1-Dichloroethane
Scan Number	: 1008
Retention Time (minutes)	: 4.822
Quant Ion	: 63.0
Area (flag)	: 16802
Concentration (ug/L)	: 1.8802

PTL83 0140

PA18S

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5796204

File: /chem/HP09915.i/09oct09b.b/lc09s66.d
Sample: PA18S;5796204;1;0;;;;;;;
Injected At:10-OCT-2009 01:45
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.832(-0.003)	700	65	173539(-18)	250.00	
72) Fluorobenzene	7.311(-0.006)	1782	96	924374(-15)	50.00	
104) Chlorobenzene-d5	10.873(-0.003)	2890	117	694995(-14)	50.00	
137) 1,4-Dichlorobenzene-d4	12.767(0.000)	3479	152	385764(-16)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.378(-0.001)	113	229102	48.418	97%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.838(0.000)	102	54603	47.787	96%		77 - 113
91) Toluene-d8	(2)	9.375(0.000)	98	934572	48.241	96%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.880(0.000)	95	327810	47.700	95%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
8) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
19) 1,1-Dichloroethene	(1)	3.237(-0.001)	96	78530	19.589	19.59			0.80	5.00
21) Acetone	(1)				ND	ND			6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
36) 1,1-Dichloroethane	(1)	4.829(0.000)	63	10879	1.193	1.19		J	1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
45) 2-Butanone	(1)				ND	ND			3.00	10.00
46) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
51) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)				ND	ND			0.80	5.00
57) 1,1,1-Trichloroethane	(1)	6.423(-0.001)	97	9012	1.123	1.12		J	0.80	5.00
61) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
62) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0141

PA18S

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796204

File: /chem/HP09915.i/09oct09b.b/lc09s66.d
Sample: PA18S;5796204;1;0;;;;;;;
Injected At:10-OCT-2009 01:45
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
80) Dibromomethane	(1)					ND	ND			1.00	5.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
107) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
108) Ethylbenzene	(2)					ND	ND			0.80	5.00
109) m+p-Xylene	(2)					ND	ND			0.80	5.00
111) o-Xylene	(2)					ND	ND			0.80	5.00
112) Styrene	(2)					ND	ND			1.00	5.00
113) Bromoform	(2)					ND	ND			1.00	5.00
115) Isopropylbenzene	(2)					ND	ND			1.00	5.00
120) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0142

PA18S

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796204

File: /chem/HP09915.i/09oct09b.b/lc09s66.d
Sample: PA18S;5796204;1;0;;;;;;;
Injected At:10-OCT-2009 01:45
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
143) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
147) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
148) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
149) Naphthalene	(3)					ND	ND			1.00	5.00
150) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

Analyst: CBE194A Date: 10/14/09

Auditor: [signature] Date: 10/14/09

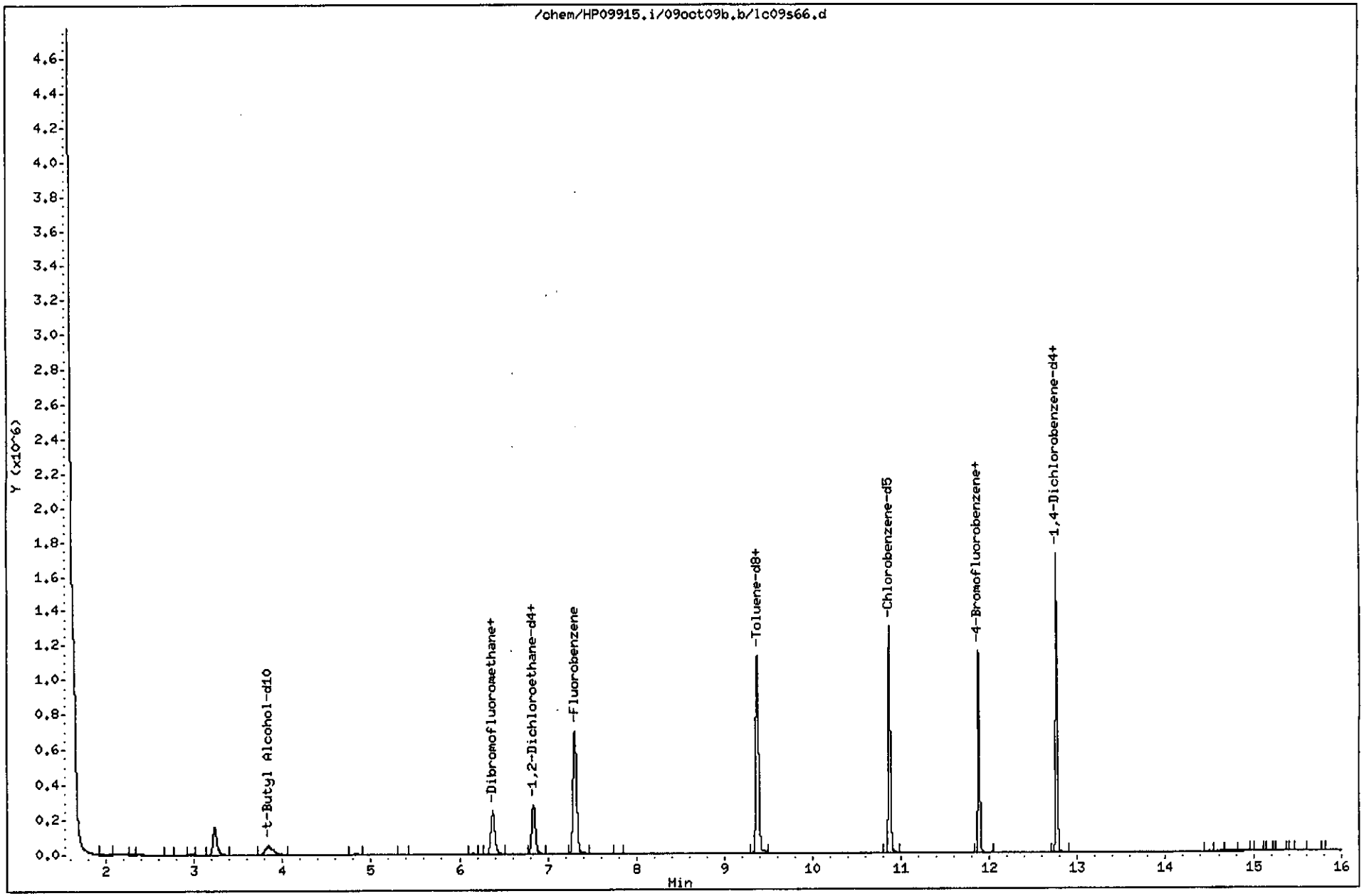
PTL03 0143

Data File: /chem/HP09915.i/09oct09b.b/1c09s66.d
Date : 10-OCT-2009 01:45
Client ID: PA18S
Sample Info: PA18S;5796204;1;0;;;;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i
Operator: KDP02245
Column diameter: 0.25

PTI03 0144

/chem/HP09915.i/09oct09b.b/1c09s66.d



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct09b.b/lc09s66.d Instrument ID: HP09915.i
Injection date and time: 10-OCT-2009 01:45 Analyst ID: KDP02245

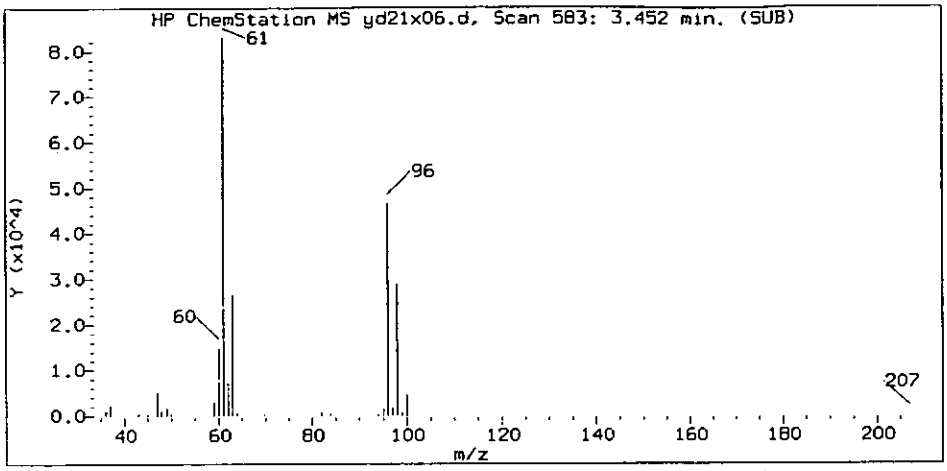
Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: MWH
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 22:37 maz02012

Sample Name: PA18S Lab Sample ID: 5796204

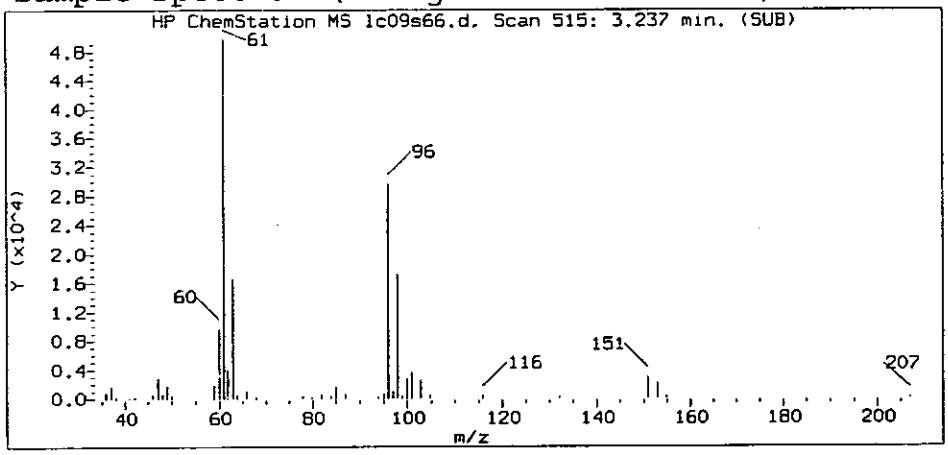
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
19) 1,1-Dichloroethene	(1)	3.237	96	78530	19.589
30)*t-Butyl Alcohol-d10	(4)	3.832	65	173539	250.000
36) 1,1-Dichloroethane	(1)	4.829	63	10879	1.193
57) 1,1,1-Trichloroethane	(1)	6.423	97	9012	1.123
72)*Fluorobenzene	(1)	7.311	96	924374	50.000
104)*Chlorobenzene-d5	(2)	10.873	117	694995	50.000
137)*1,4-Dichlorobenzene-d4	(3)	12.767	152	385764	50.000
54)$Dibromofluoromethane	(1)	6.378	113	229102	48.418
64)$1,2-Dichloroethane-d4	(1)	6.838	102	54603	47.787
91)$Toluene-d8	(2)	9.375	98	934572	48.241
119)$4-Bromofluorobenzene	(2)	11.880	95	327810	47.700

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

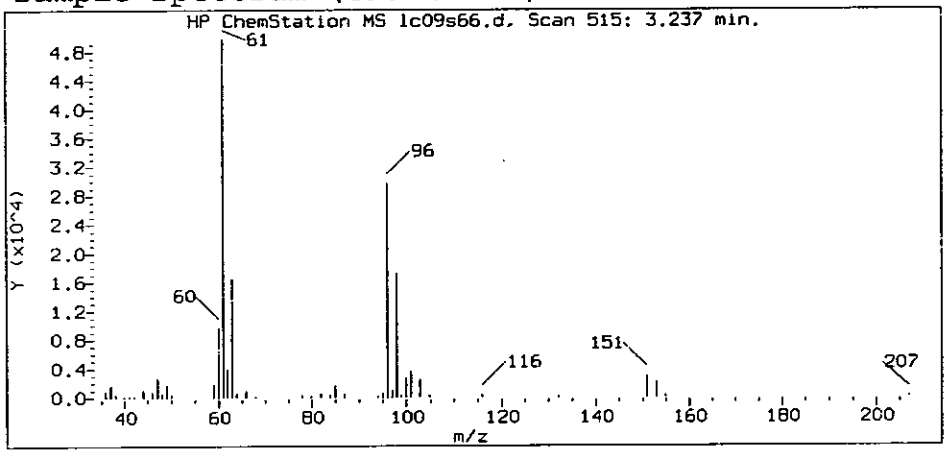
Reference Standard Spectrum for 1,1-Dichloroethene

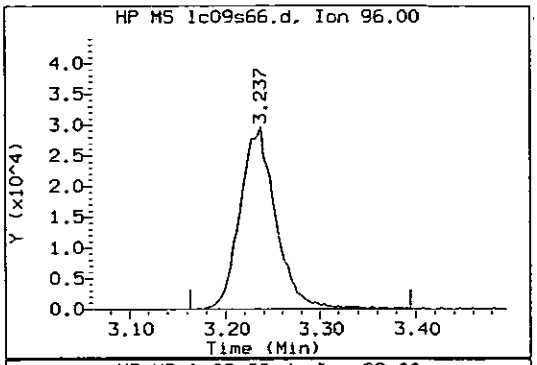


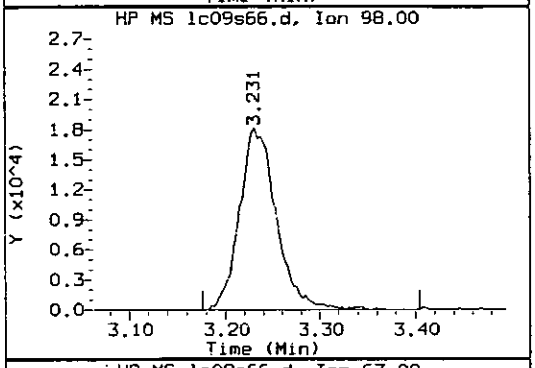
Sample Spectrum (Background Subtracted)

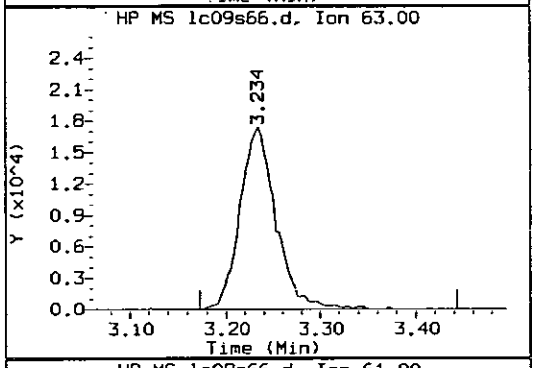


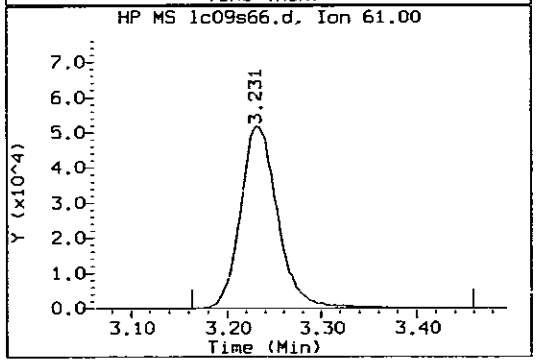
Sample Spectrum (Unaltered)











Data File: /chem/HP09915.i/09oct09b.b/lc09s66.d
Injection date and time: 10-OCT-2009 01:45

Instrument ID: HP09915.i
Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m
Calibration date and time: 12-OCT-2009 22:35

Sublist used: MWH

Date, time and analyst ID of latest file update: 12-Oct-2009 22:37 maz02012

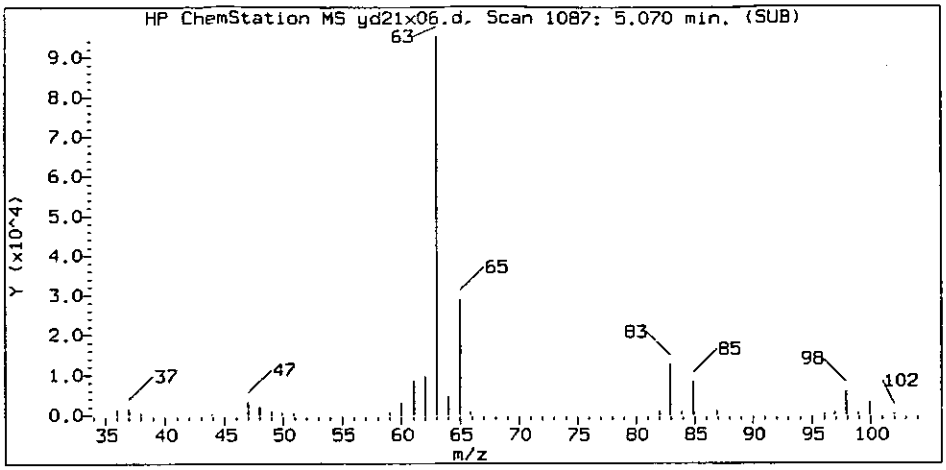
Sample Name: PA18S

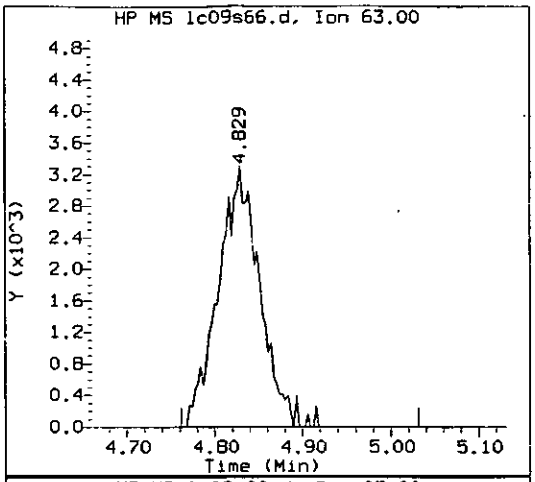
Lab Sample ID: 5796204

Compound Number	: 19
Compound Name	: 1,1-Dichloroethene
Scan Number	: 515
Retention Time (minutes)	: 3.237
Quant Ion	: 96.0
Area (flag)	: 78530
Concentration (ug/L)	: 19.5893

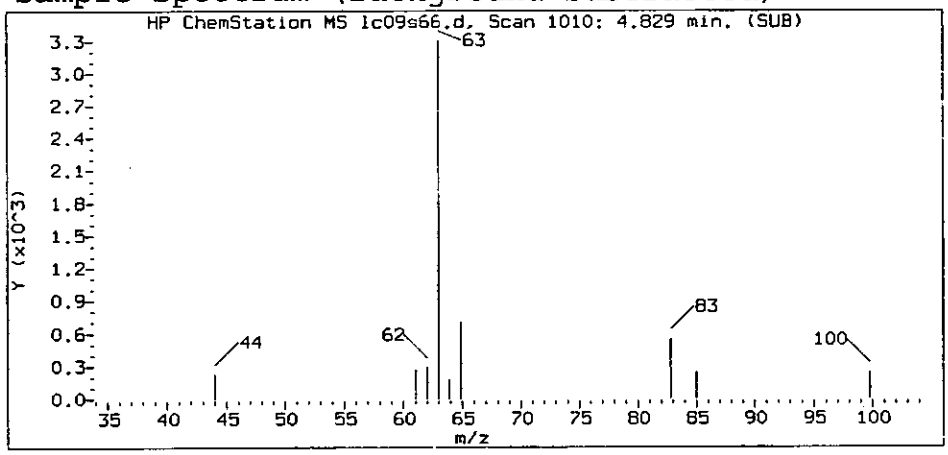
PTL83 0146

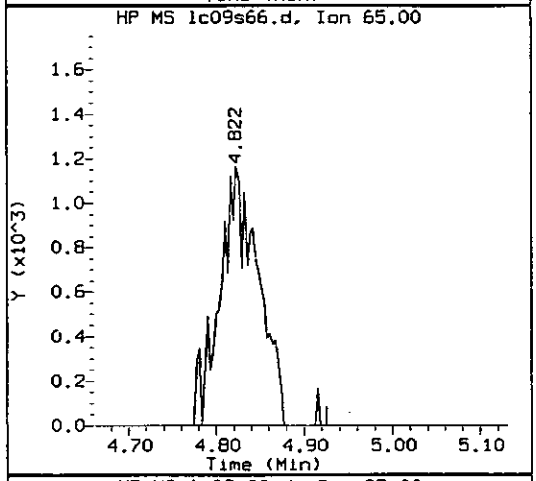
Reference Standard Spectrum for 1,1-Dichloroethane



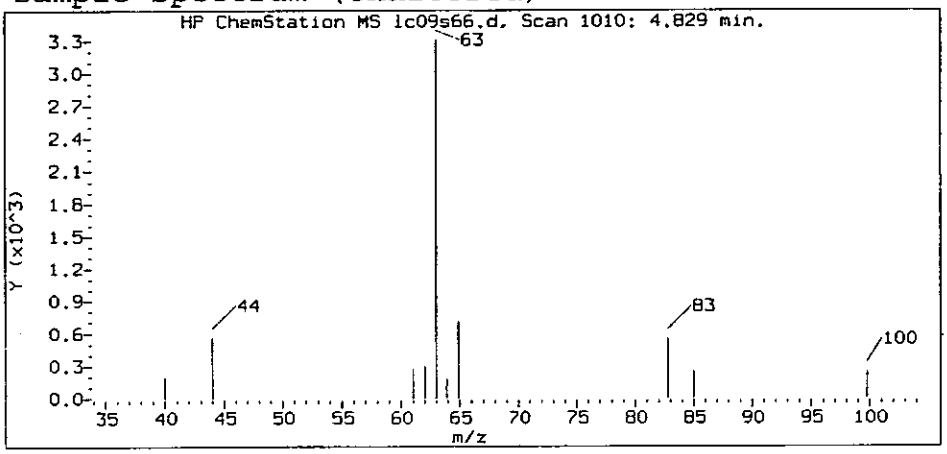


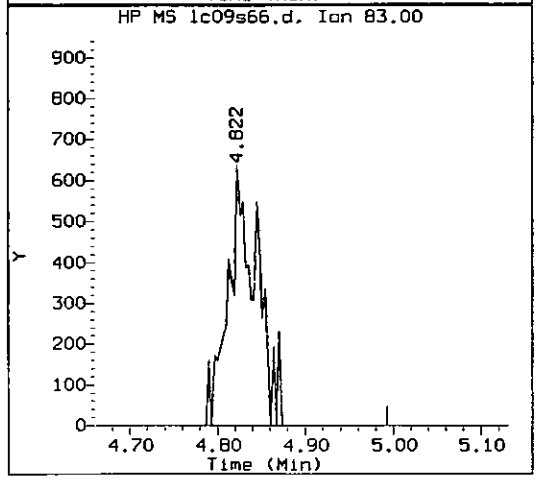
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09915.i/09oct09b.b/lc09s66.d
Injection date and time: 10-OCT-2009 01:45

Instrument ID: HP09915.i
Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m
Calibration date and time: 12-OCT-2009 22:35

Sublist used: MWH

Date, time and analyst ID of latest file update: 12-Oct-2009 22:37 maz02012

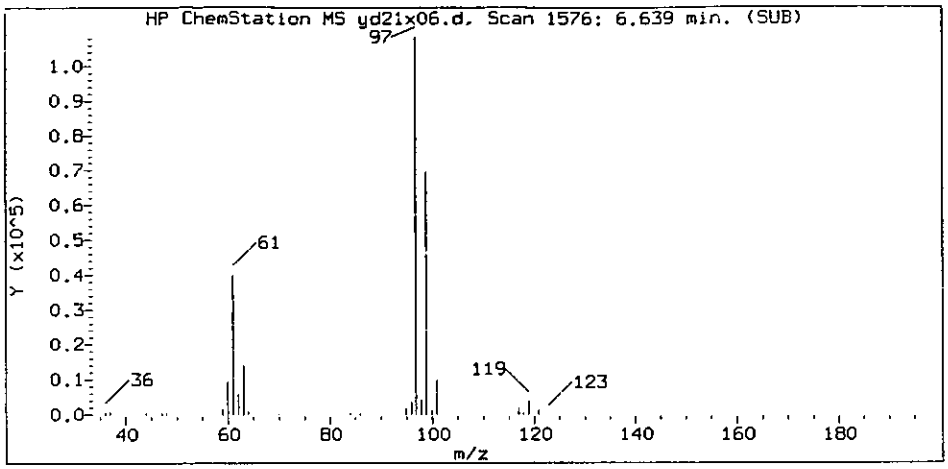
Sample Name: PA18S

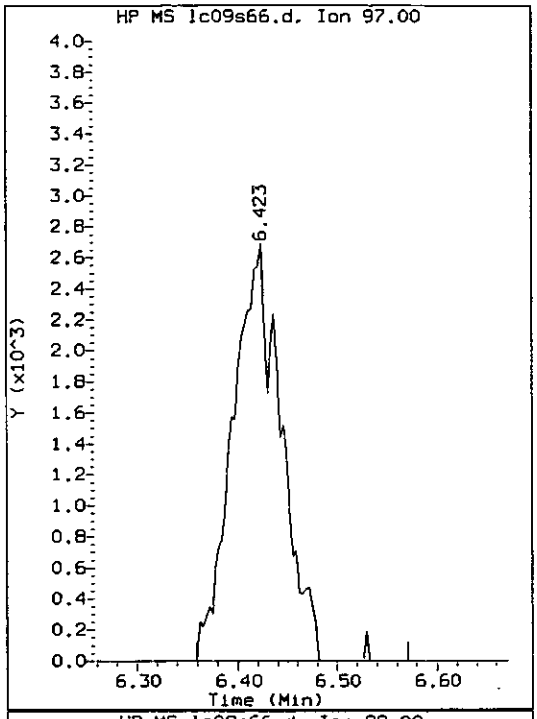
Lab Sample ID: 5796204

Compound Number	: 36
Compound Name	: 1,1-Dichloroethane
Scan Number	: 1010
Retention Time (minutes)	: 4.829
Quant Ion	: 63.0
Area (flag)	: 10879
Concentration (ug/L)	: 1.1926

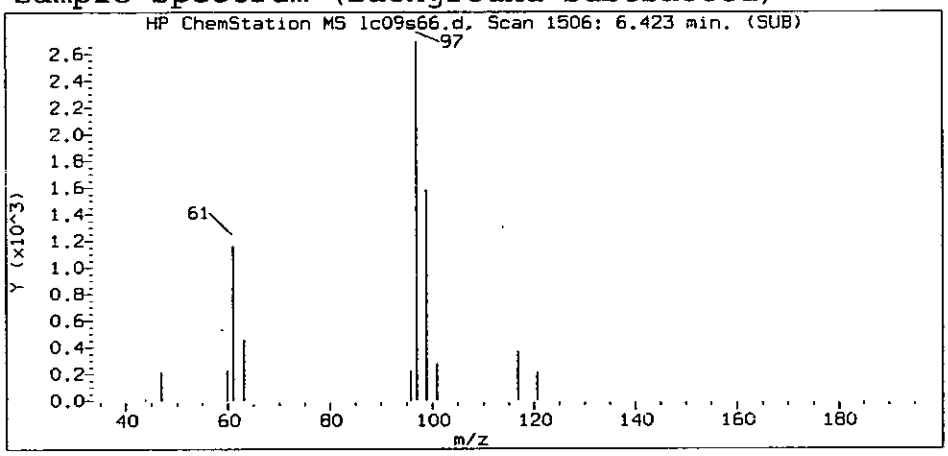
PTL03 0147

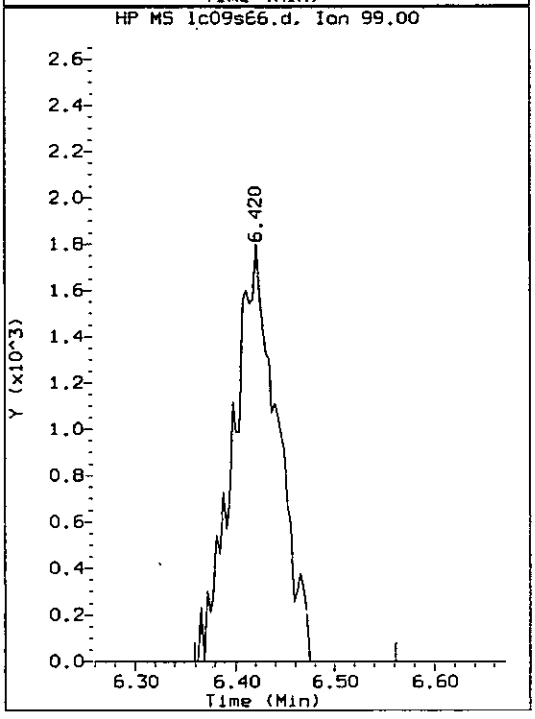
Reference Standard Spectrum for 1,1,1-Trichloroethane



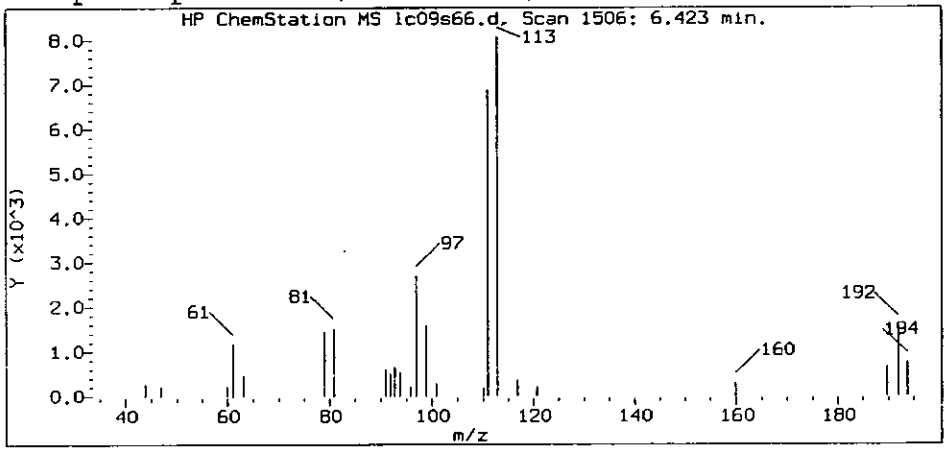


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP09915.i/09oct09b.b/lc09s66.d Instrument ID: HP09915.i
Injection date and time: 10-OCT-2009 01:45 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: MWH
Calibration date and time: 12-OCT-2009 22:35
Date, time and analyst ID of latest file update: 12-Oct-2009 22:37 maz02012

Sample Name: PA18S Lab Sample ID: 5796204

Compound Number	: 57
Compound Name	: 1,1,1-Trichloroethane
Scan Number	: 1506
Retention Time (minutes)	: 6.423
Quant Ion	: 97.0
Area (flag)	: 9012
Concentration (ug/L)	: 1.1230

PTL83 0148

PA18D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796205

File: /chem/HP09915.i/09oct09b.b/1c09s67.d
Sample: PA18D;5796205;1;0;;;;;;;
Injected At:10-OCT-2009 02:07
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: 1c09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: 1c09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.842(-0.013)	703	65	171806(-19)	250.00	
72) Fluorobenzene	7.308(-0.003)	1781	96	907080(-16)	50.00	
104) Chlorobenzene-d5	10.874(-0.003)	2890	117	689972(-15)	50.00	
137) 1,4-Dichlorobenzene-d4	12.767(0.000)	3479	152	382102(-16)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.379(-0.001)	113	226868	48.860	98%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.845(-0.001)	102	53317	47.551	95%		77 - 113
91) Toluene-d8	(2)	9.375(0.000)	98	928675	48.286	97%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.883(0.000)	95	321885	47.179	94%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
8) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
19) 1,1-Dichloroethene	(1)	3.234(-0.001)	96	143981	36.601	36.60			0.80	5.00
21) Acetone	(1)				ND	ND			6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
36) 1,1-Dichloroethane	(1)	4.826(0.000)	63	12323	1.377	1.38		J	1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
45) 2-Butanone	(1)				ND	ND			3.00	10.00
46) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
51) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)	6.150(0.000)	83	6865	0.851	0.85		J	0.80	5.00
57) 1,1,1-Trichloroethane	(1)	6.417(0.000)	97	6598	0.838	0.84		J	0.80	5.00
61) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
62) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0149

PA18D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796205

File: /chem/HP09915.i/09oct09b.b/lc09s67.d
Sample: PA18D;5796205;1;0;;;;;;;
Injected At:10-OCT-2009 02:07
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
80) Dibromomethane	(1)					ND	ND			1.00	5.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
107) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
108) Ethylbenzene	(2)					ND	ND			0.80	5.00
109) m+p-Xylene	(2)					ND	ND			0.80	5.00
111) o-Xylene	(2)					ND	ND			0.80	5.00
112) Styrene	(2)					ND	ND			1.00	5.00
113) Bromoform	(2)					ND	ND			1.00	5.00
115) Isopropylbenzene	(2)					ND	ND			1.00	5.00
120) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL83 0158

PA18D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796205

File: /chem/HP09915.i/09oct09b.b/lc09s67.d
Sample: PA18D;5796205;1;0;;;;;;;
Injected At:10-OCT-2009 02:07
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.1
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
143) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
147) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
148) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
149) Naphthalene	(3)					ND	ND			1.00	5.00
150) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

Analyst: CBE1907 Date: 10/14/09

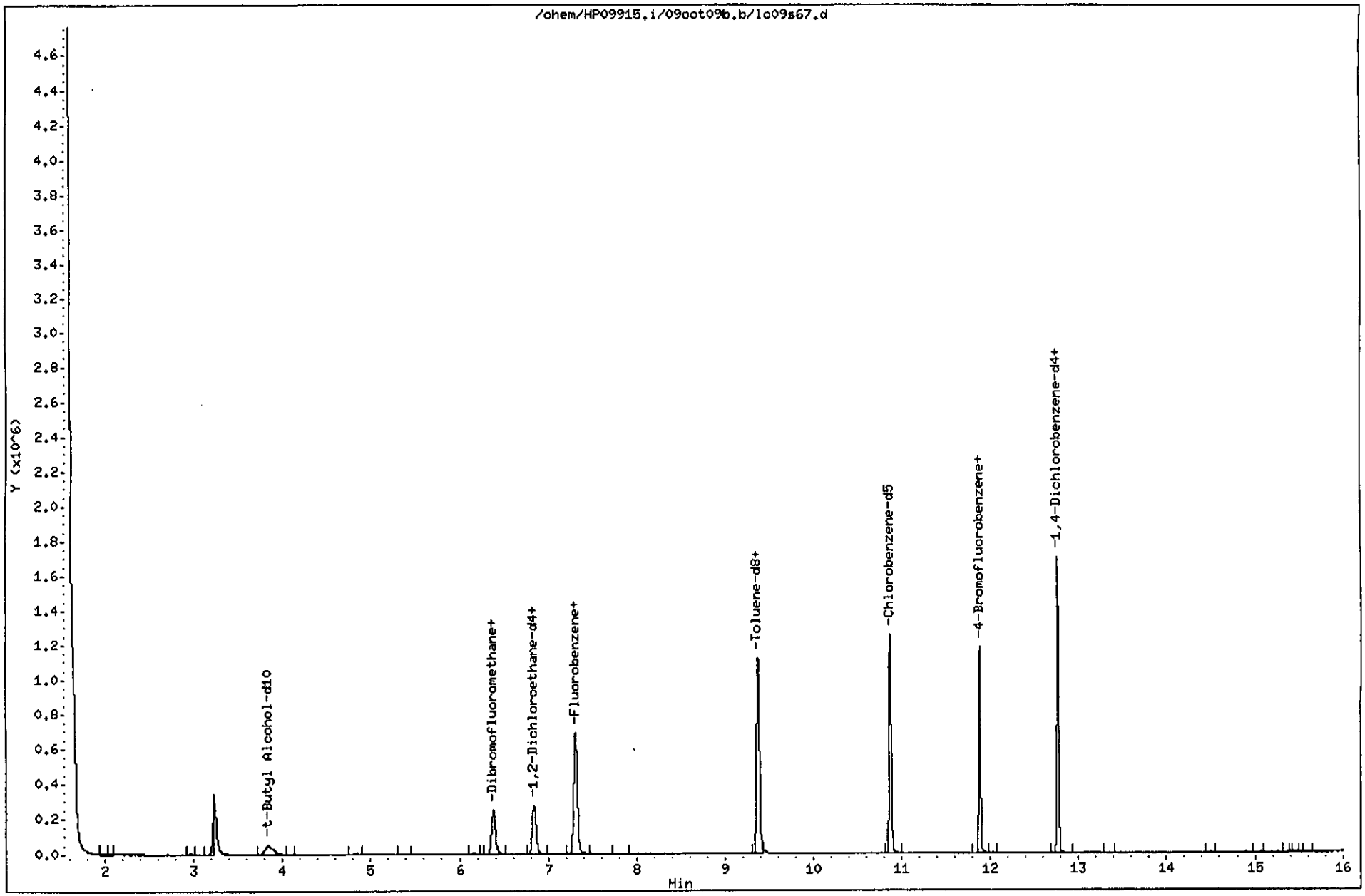
Auditor: Date: 10/14/09

FTL03 0151

PT163 @152

Data File: /chem/HP09915.i/09oct09b.b/lc09s67.d
Date : 10-OCT-2009 02:07
Client ID: PA18D
Sample Info: PA18D;5796205;1;0;;;;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i
Operator: KDP02245
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct09b.b/lc09s67.d Instrument ID: HP09915.i
Injection date and time: 10-OCT-2009 02:07 Analyst ID: KDP02245

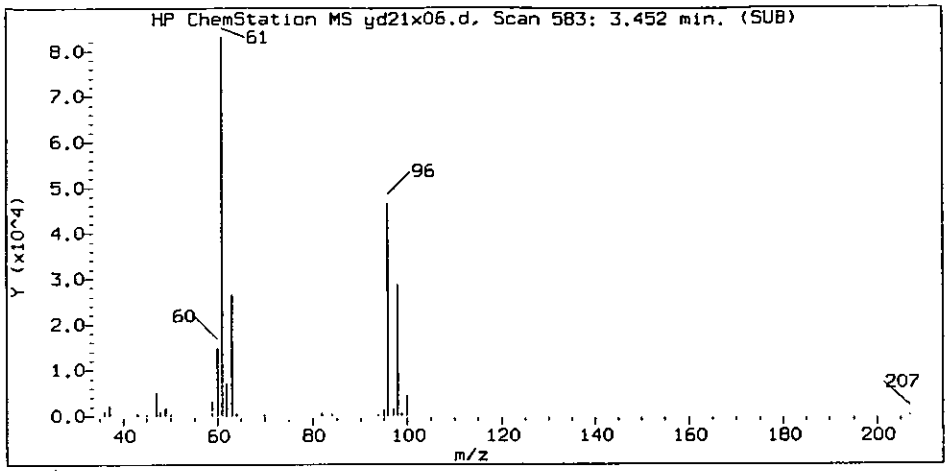
Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: MWH
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 22:37 maz02012

Sample Name: PA18D Lab Sample ID: 5796205

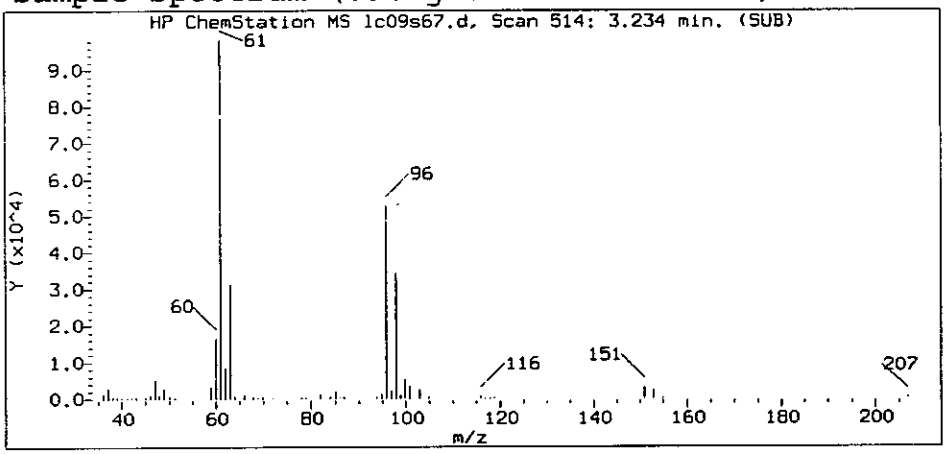
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
19) 1,1-Dichloroethene	(1)	3.234	96	143981	36.601
30)*t-Butyl Alcohol-d10	(4)	3.842	65	171806	250.000
36) 1,1-Dichloroethane	(1)	4.826	63	12323	1.377
53) Chloroform	(1)	6.150	83	6865	0.851
57) 1,1,1-Trichloroethane	(1)	6.417	97	6598	0.838
72)*Fluorobenzene	(1)	7.308	96	907080	50.000
104)*Chlorobenzene-d5	(2)	10.874	117	689972	50.000
137)*1,4-Dichlorobenzene-d4	(3)	12.767	152	382102	50.000
54)$Dibromofluoromethane	(1)	6.379	113	226868	48.860
64)$1,2-Dichloroethane-d4	(1)	6.845	102	53317	47.551
91)$Toluene-d8	(2)	9.375	98	928675	48.286
119)$4-Bromofluorobenzene	(2)	11.883	95	321885	47.179

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

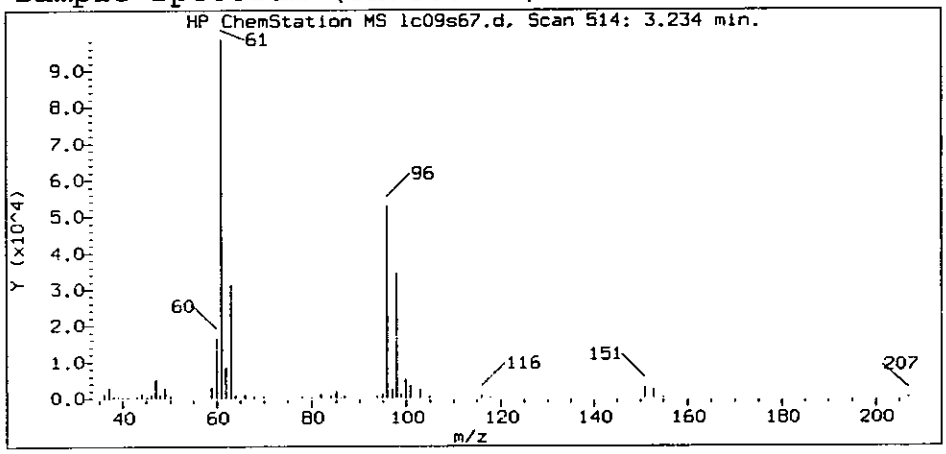
Reference Standard Spectrum for 1,1-Dichloroethene

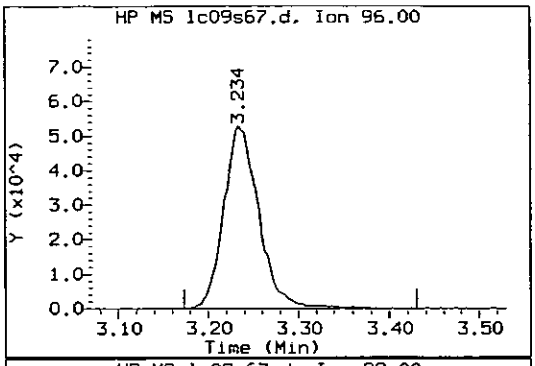


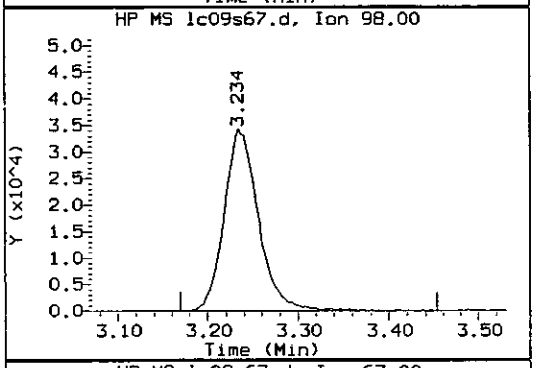
Sample Spectrum (Background Subtracted)

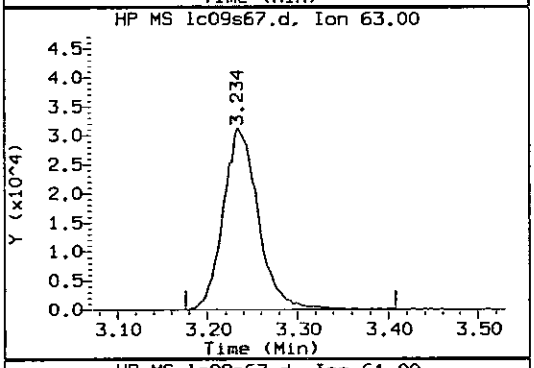


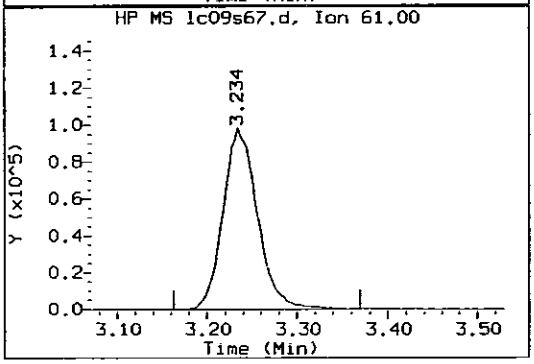
Sample Spectrum (Unaltered)











Data File: /chem/HP09915.i/09oct09b.b/lc09s67.d
Injection date and time: 10-OCT-2009 02:07

Instrument ID: HP09915.i
Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m
Calibration date and time: 12-OCT-2009 22:35
Sublist used: MWH
Date, time and analyst ID of latest file update: 12-Oct-2009 22:37 maz02012

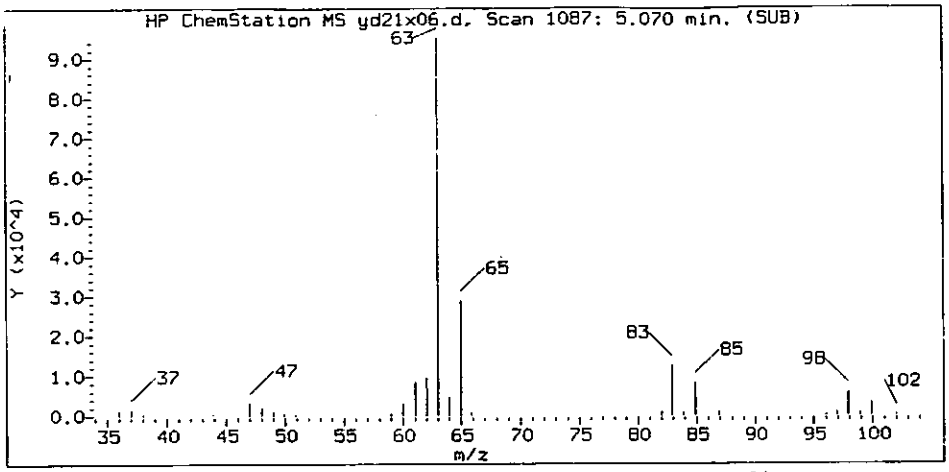
Sample Name: PA18D

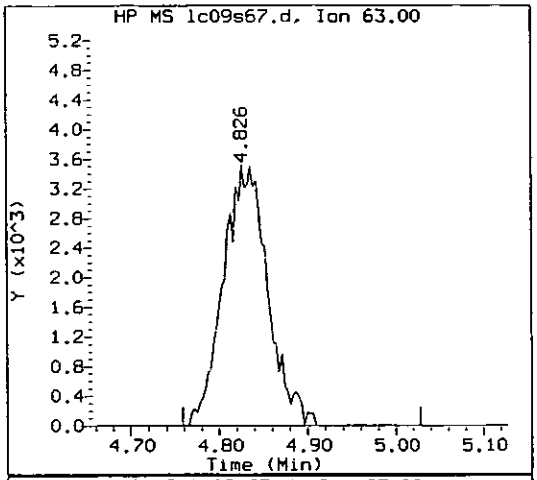
Lab Sample ID: 5796205

Compound Number	: 19
Compound Name	: 1,1-Dichloroethene
Scan Number	: 514
Retention Time (minutes)	: 3.234
Quant Ion	: 96.0
Area (flag)	: 143981
Concentration (ug/L)	: 36.6008

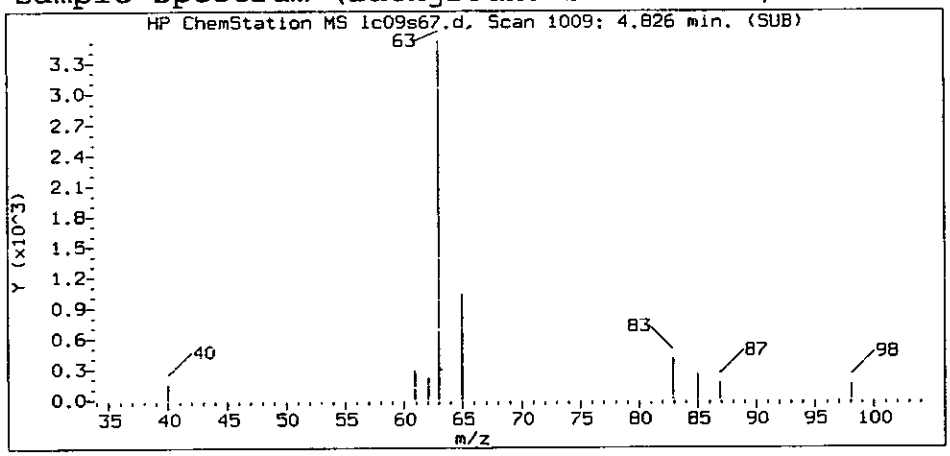
PTL03 0154

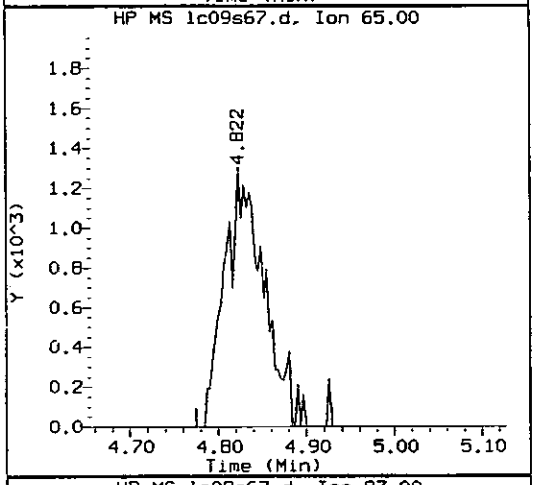
Reference Standard Spectrum for 1,1-Dichloroethane



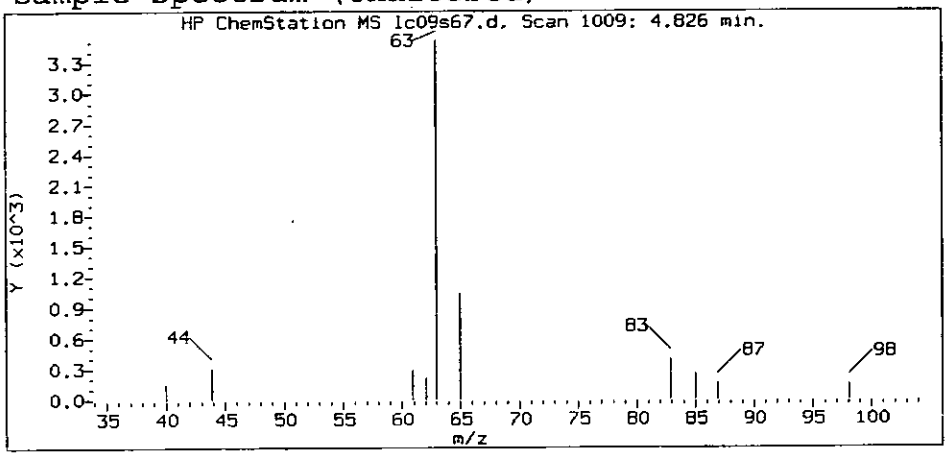


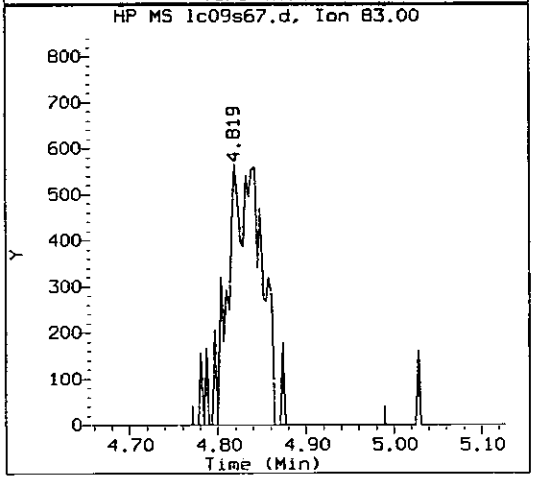
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09915.i/09oct09b.b/lc09s67.d
Injection date and time: 10-OCT-2009 02:07

Instrument ID: HP09915.i
Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m
Calibration date and time: 12-OCT-2009 22:35
Sublist used: MWH
Date, time and analyst ID of latest file update: 12-Oct-2009 22:37 maz02012

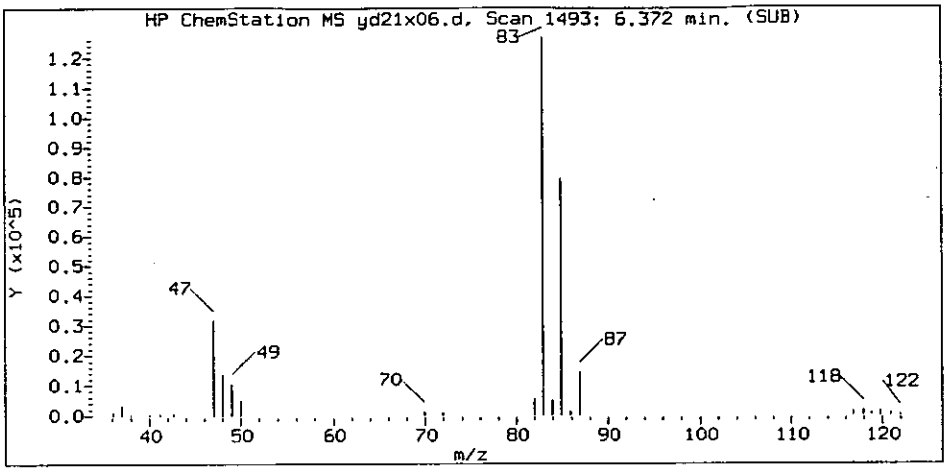
Sample Name: PA18D

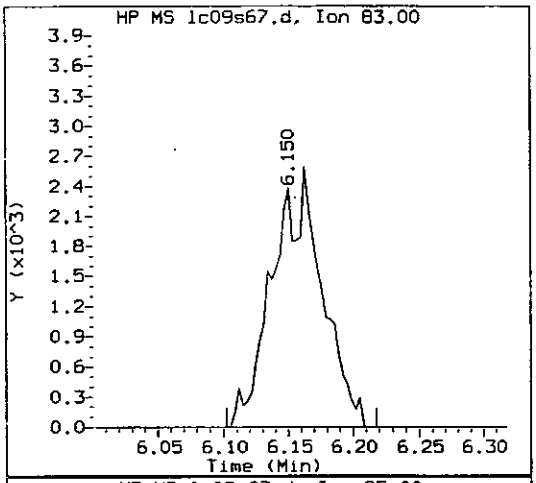
Lab Sample ID: 5796205

Compound Number	: 36
Compound Name	: 1,1-Dichloroethane
Scan Number	: 1009
Retention Time (minutes)	: 4.826
Quant Ion	: 63.0
Area (flag)	: 12323
Concentration (ug/L)	: 1.3767

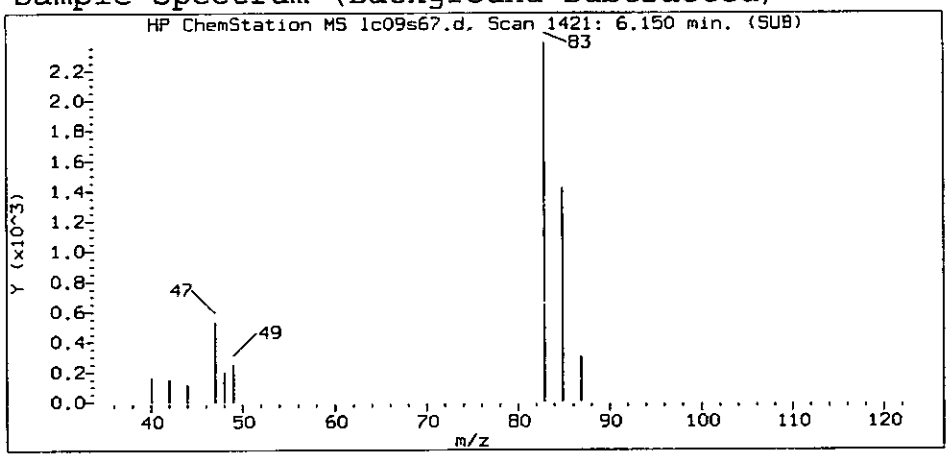
PTL83 8155

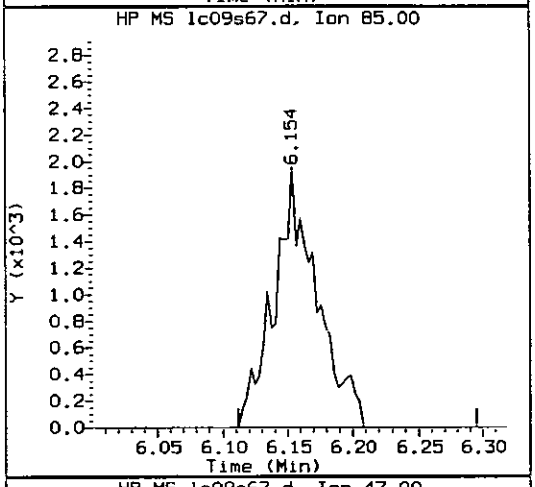
Reference Standard Spectrum for Chloroform



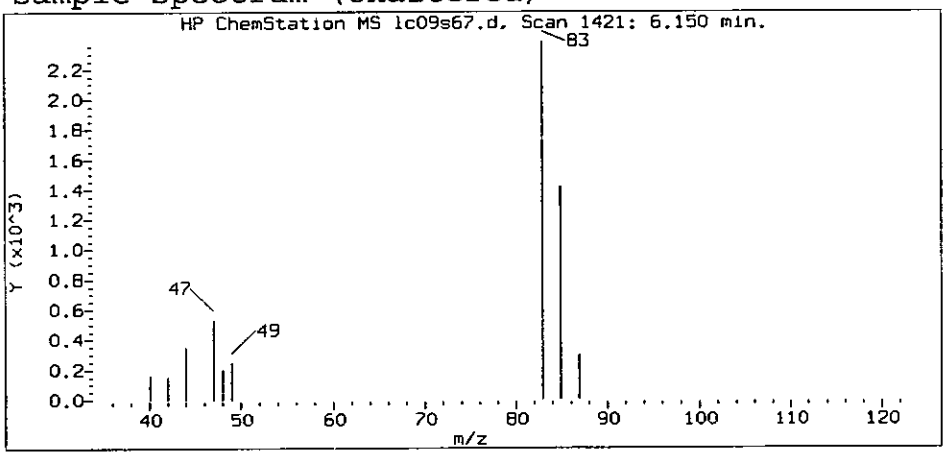


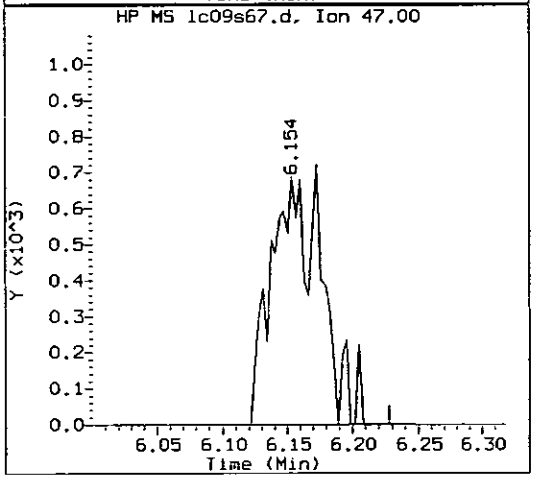
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09915.i/09oct09b.b/lc09s67.d
Injection date and time: 10-OCT-2009 02:07

Instrument ID: HP09915.i
Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m
Calibration date and time: 12-OCT-2009 22:35

Sublist used: MWH

Date, time and analyst ID of latest file update: 12-Oct-2009 22:37 maz02012

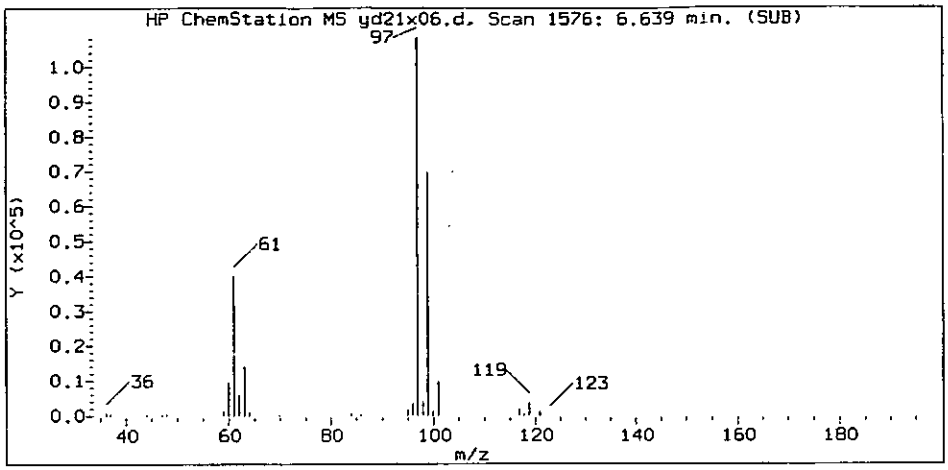
Sample Name: PA18D

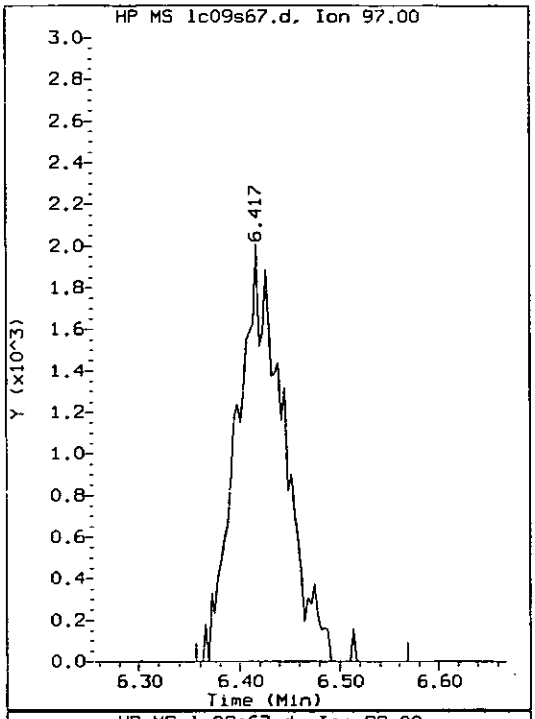
Lab Sample ID: 5796205

Compound Number	: 53
Compound Name	: Chloroform
Scan Number	: 1421
Retention Time (minutes)	: 6.150
Quant Ion	: 83.0
Area (flag)	: 6865
Concentration (ug/L)	: 0.8510

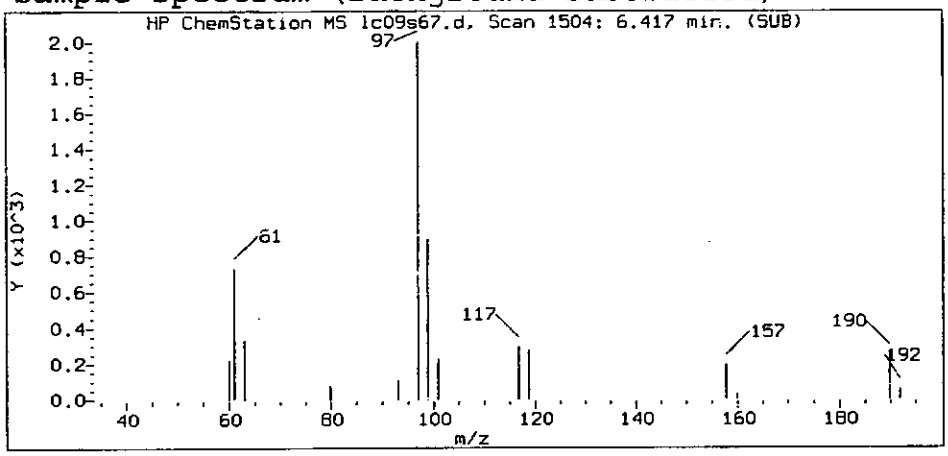
PTL03 0156

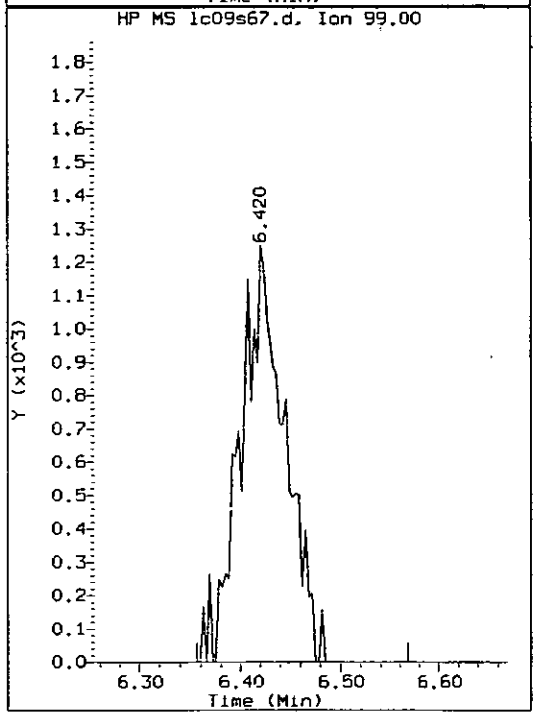
Reference Standard Spectrum for 1,1,1-Trichloroethane



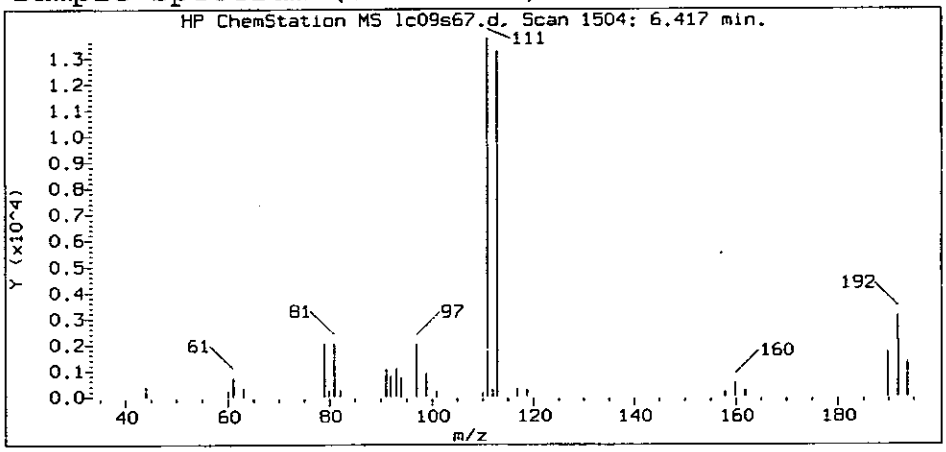


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem/HP09915.i/09oct09b.b/lc09s67.d Instrument ID: HP09915.i
Injection date and time: 10-OCT-2009 02:07 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: MWH
Calibration date and time: 12-OCT-2009 22:35
Date, time and analyst ID of latest file update: 12-Oct-2009 22:37 maz02012

Sample Name: PA18D Lab Sample ID: 5796205

Compound Number	: 57
Compound Name	: 1,1,1-Trichloroethane
Scan Number	: 1504
Retention Time (minutes)	: 6.417
Quant Ion	: 97.0
Area (flag)	: 6598
Concentration (ug/L)	: 0.8378

PTL83 0157

PAEB2

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796206

File: /chem/HP09915.i/09oct07b.b/1c07s32.d
Sample: PAEB2;5796206;1;0;;;;;;;
Injected At:07-OCT-2009 21:12
Calibration Time: 24-SEP-2009 09:28
Target Method: L8260W.m
Blank Reference: 1c07b03.d
Sublist: MHW

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: 1c07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
72) Fluorobenzene	7.308(-0.003)	1781	96	1061541(-6)	50.00	
104) Chlorobenzene-d5	10.874(0.000)	2890	117	789229(-6)	50.00	
137) 1,4-Dichlorobenzene-d4	12.767(0.000)	3479	152	435046(-11)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.379(0.000)	113	259709	50.772	102%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.838(0.000)	102	60802	49.172	98%		77 - 113
91) Toluene-d8	(2)	9.375(0.000)	98	1056534	51.245	102%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.883(0.000)	95	370454	48.883	98%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
8) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
19) 1,1-Dichloroethene	(1)				ND	ND			0.80	5.00
21) Acetone	(1)				ND	ND			6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
36) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
45) 2-Butanone	(1)				ND	ND			3.00	10.00
46) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
51) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)	6.150(0.000)	83	11672	1.338	1.34		J	0.80	5.00
57) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
61) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
62) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0158

PAEB2

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5796206

File: /chem/HP09915.i/09oct07b.b/lc07s32.d
Sample: PAEB2;5796206;1;0;;;;;;;
Injected At:07-OCT-2009 21:12
Calibration Time: 24-SEP-2009 09:28
Target Method: L8260W.m
Blank Reference: lc07b03.d
Sublist: MHW

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
80) Dibromomethane	(1)					ND	ND			1.00	5.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
107) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
108) Ethylbenzene	(2)					ND	ND			0.80	5.00
109) m+p-Xylene	(2)					ND	ND			0.80	5.00
111) o-Xylene	(2)					ND	ND			0.80	5.00
112) Styrene	(2)					ND	ND			1.00	5.00
113) Bromoform	(2)					ND	ND			1.00	5.00
115) Isopropylbenzene	(2)					ND	ND			1.00	5.00
120) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 #159

PAEB2

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796206

File: /chem/HP09915.i/09oct07b.b/lc07s32.d
Sample: PAEB2;5796206;1;0;;;;;;;
Injected At:07-OCT-2009 21:12
Calibration Time: 24-SEP-2009 09:28
Target Method: L8260W.m
Blank Reference: lc07b03.d
Sublist: MHW

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
143) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
147) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
148) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
149) Naphthalene	(3)					ND	ND			1.00	5.00
150) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

Analyst: [signature] Date: [illegible]

Auditor: [signature] Date: 10-10-09

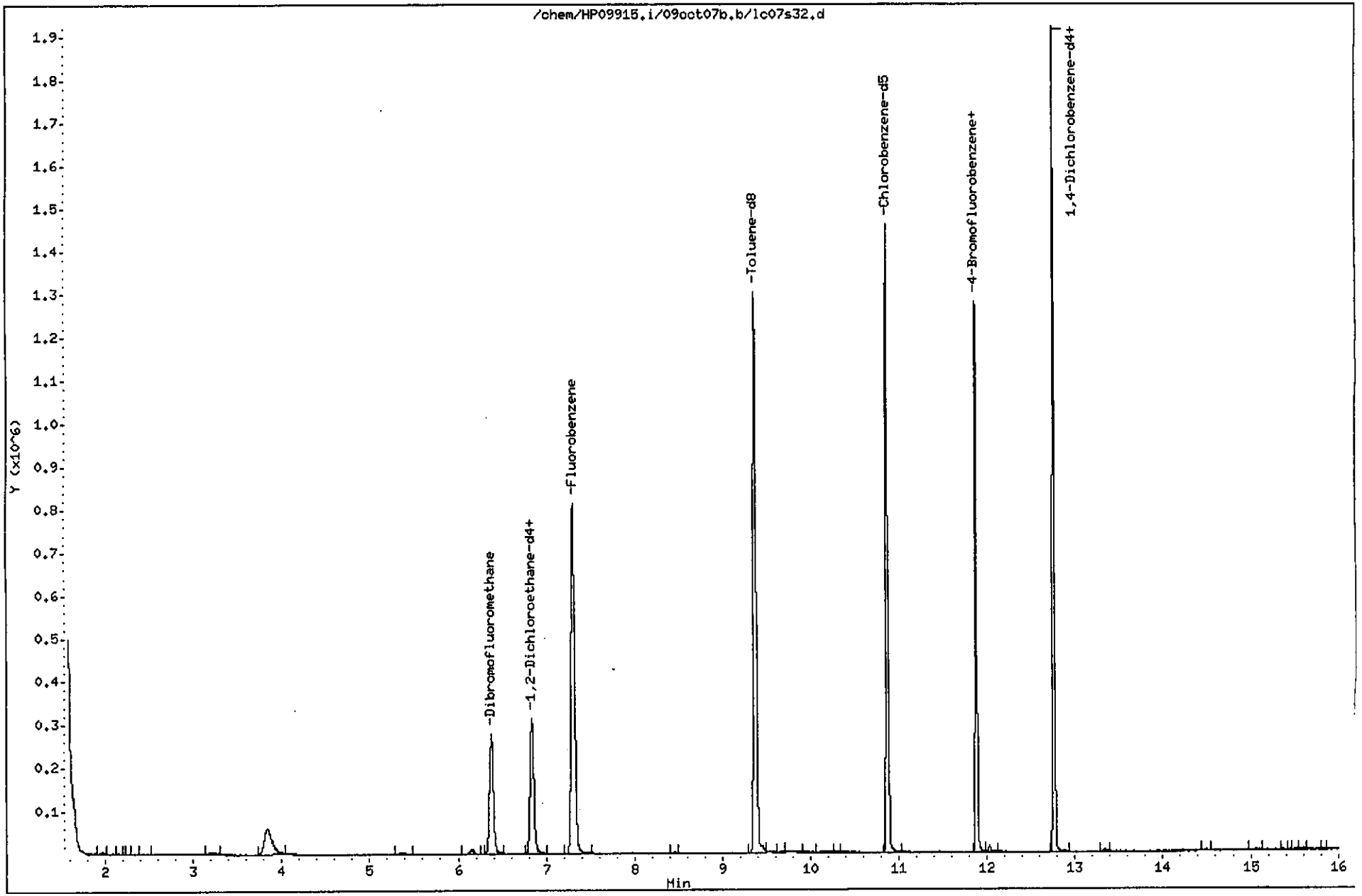
PTL03 0168

PTL#3 8154

Data File: /chem/HP09915.i/09oct07b.b/lc07s32.d
Date : 07-OCT-2009 21:12
Client ID: PAEB2
Sample Info: PAEB2;5796206;1;0;;;;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: NPR02223
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct07b.b/lc07s32.d Instrument ID: HP09915.i
Injection date and time: 07-OCT-2009 21:12 Analyst ID: NPR02223

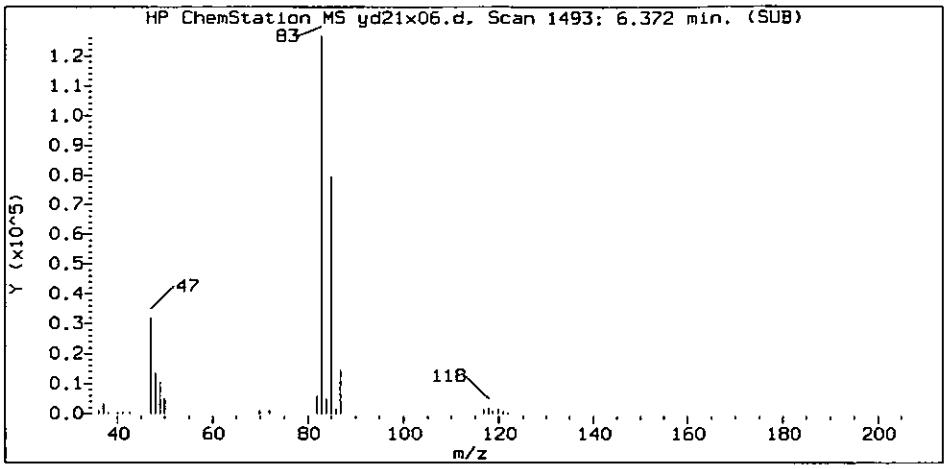
Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: MHW
Calibration date and time: 24-SEP-2009 09:28
Date, time and analyst ID of latest file update: 08-Oct-2009 23:37 maz02012

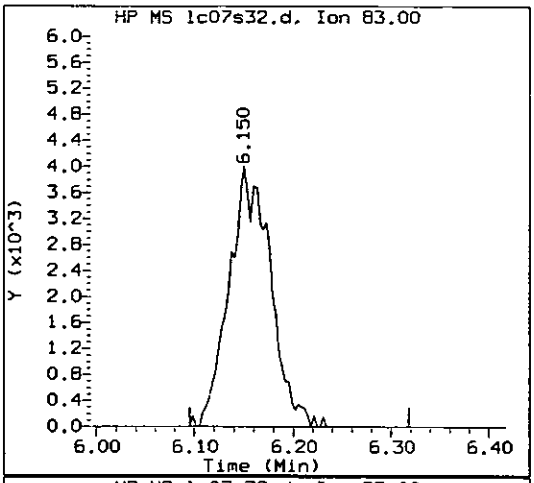
Sample Name: PAEB2 Lab Sample ID: 5796206

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
53) Chloroform	(1)	6.150	83	11672	1.338
72) *Fluorobenzene	(1)	7.308	96	1061541	50.000
104) *Chlorobenzene-d5	(2)	10.874	117	789229	50.000
137) *1,4-Dichlorobenzene-d4	(3)	12.767	152	435046	50.000
54) $Dibromofluoromethane	(1)	6.379	113	259709	50.772
64) $1,2-Dichloroethane-d4	(1)	6.838	102	60802	49.172
91) $Toluene-d8	(2)	9.375	98	1056534	51.245
119) $4-Bromofluorobenzene	(2)	11.883	95	370454	48.883

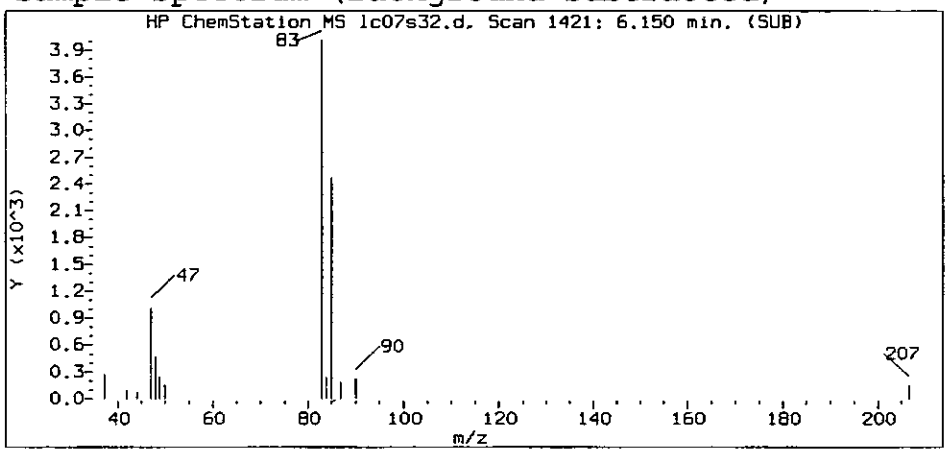
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

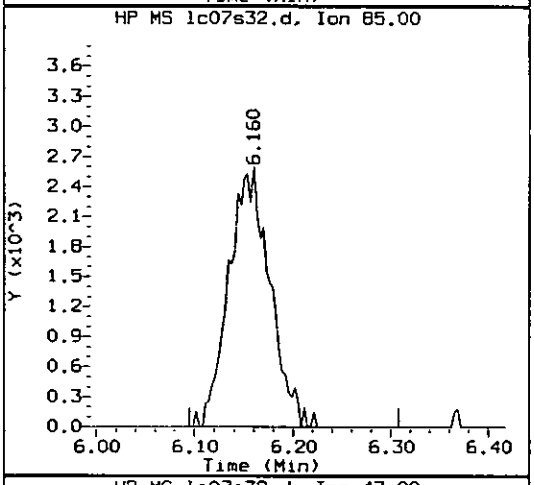
Reference Standard Spectrum for Chloroform



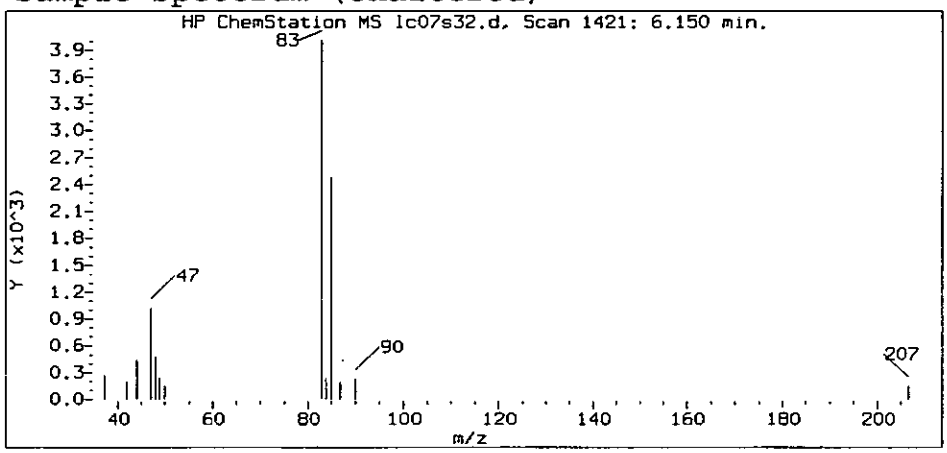


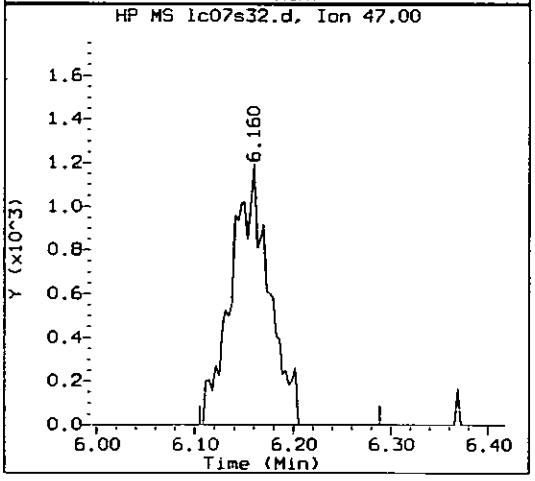
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09915.i/09oct07b.b/lc07s32.d Instrument ID: HP09915.i
Injection date and time: 07-OCT-2009 21:12 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: MHW
Calibration date and time: 08-OCT-2009 23:37
Date, time and analyst ID of latest file update: 08-Oct-2009 23:37 maz02012

Sample Name: PAEB2 Lab Sample ID: 5796206

Compound Number	: 53
Compound Name	: Chloroform
Scan Number	: 1421
Retention Time (minutes)	: 6.150
Quant Ion	: 83.0
Area (flag)	: 11672
Concentration (ug/L)	: 1.3379

PTL03 0163

PAFD2

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796207

File: /chem/HP09915.i/09oct07b.b/lc07s44.d
Sample: PAFD2;5796207;1;0;;;;;;;
Injected At:08-OCT-2009 01:34
Calibration Time: 24-SEP-2009 09:28
Target Method: L8260W.m
Blank Reference: lc07b03.d
Sublist: MHW

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
72) Fluorobenzene	7.311(-0.006)	1782	96	984443(-13)	50.00	
104) Chlorobenzene-d5	10.874(0.000)	2890	117	738607(-12)	50.00	
137) 1,4-Dichlorobenzene-d4	12.767(0.000)	3479	152	412274(-15)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.379(0.000)	113	242098	51.036	102%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.838(0.000)	102	57747	50.359	101%		77 - 113
91) Toluene-d8	(2)	9.378(-0.001)	98	993655	51.809	104%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.883(0.000)	95	346737	48.889	98%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
8) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
19) 1,1-Dichloroethene	(1)	3.231(0.000)	96	7321	1.961	1.96		J	0.80	5.00
21) Acetone	(1)				ND	ND			6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
36) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
45) 2-Butanone	(1)				ND	ND			3.00	10.00
46) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
51) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)				ND	ND			0.80	5.00
57) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
61) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
62) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 8164

PAFD2

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5796207

File: /chem/HP09915.i/09oct07b.b/1c07s44.d
Sample: PAFD2;5796207;1;0;;;;;;;
Injected At:08-OCT-2009 01:34
Calibration Time: 24-SEP-2009 09:28
Target Method: L8260W.m
Blank Reference: 1c07b03.d
Sublist: MHW

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: 1c07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
80) Dibromomethane	(1)					ND	ND			1.00	5.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)	9.459	(-0.001)	92	9129	0.756	0.76		J	0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
107) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
108) Ethylbenzene	(2)					ND	ND			0.80	5.00
109) m+p-Xylene	(2)					ND	ND			0.80	5.00
111) o-Xylene	(2)					ND	ND			0.80	5.00
112) Styrene	(2)					ND	ND			1.00	5.00
113) Bromoform	(2)					ND	ND			1.00	5.00
115) Isopropylbenzene	(2)					ND	ND			1.00	5.00
120) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0165

PAFD2

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796207

File: /chem/HP09915.i/09oct07b.b/lc07s44.d
Sample: PAFD2;5796207;1;0;;;;;;;
Injected At:08-OCT-2009 01:34
Calibration Time: 24-SEP-2009 09:28
Target Method: L8260W.m
Blank Reference: lc07b03.d
Sublist: MHW

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
143) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
147) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
148) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
149) Naphthalene	(3)					ND	ND			1.00	5.00
150) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

Analyst: [signature] Date: 10/8/09

Auditor: [signature] Date: 10-10-09

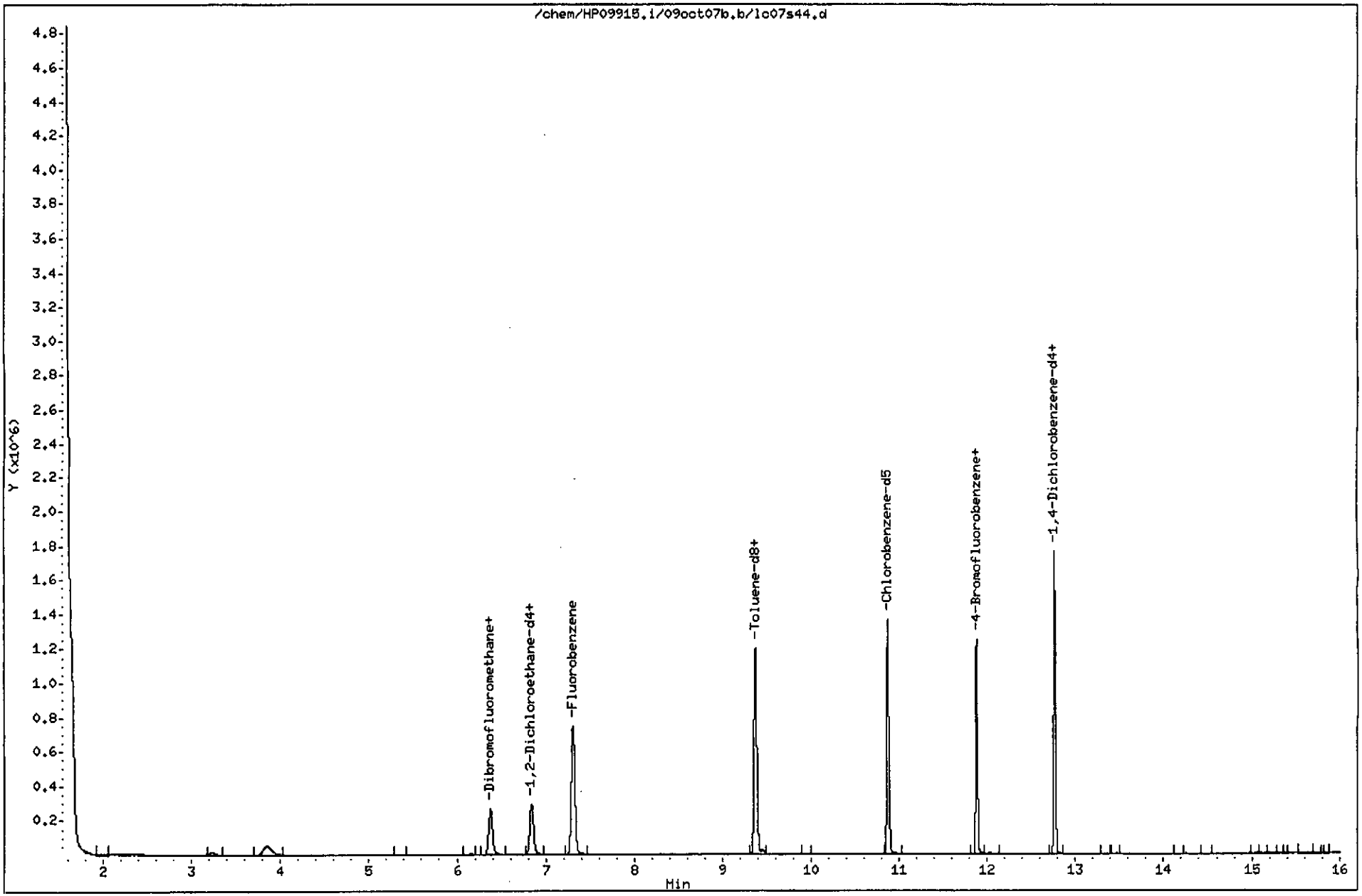
PTL03 8166

Data File: /chem/HP09915.i/09oct07b.b/lc07s44.d
Date : 08-OCT-2009 01:34
Client ID: PAFD2
Sample Info: PAFD2;5796207;1;0;;;;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: NPR02223
Column diameter: 0.25

PTL03 0167



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct07b.b/lc07s44.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 01:34 Analyst ID: NPR02223

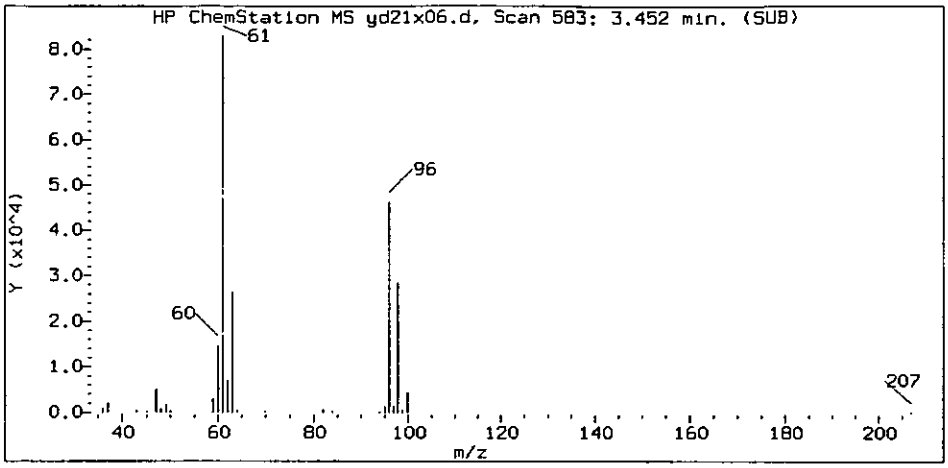
Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: MHW
Calibration date and time: 24-SEP-2009 09:28
Date, time and analyst ID of latest file update: 08-Oct-2009 23:38 maz02012

Sample Name: PAFD2 Lab Sample ID: 5796207

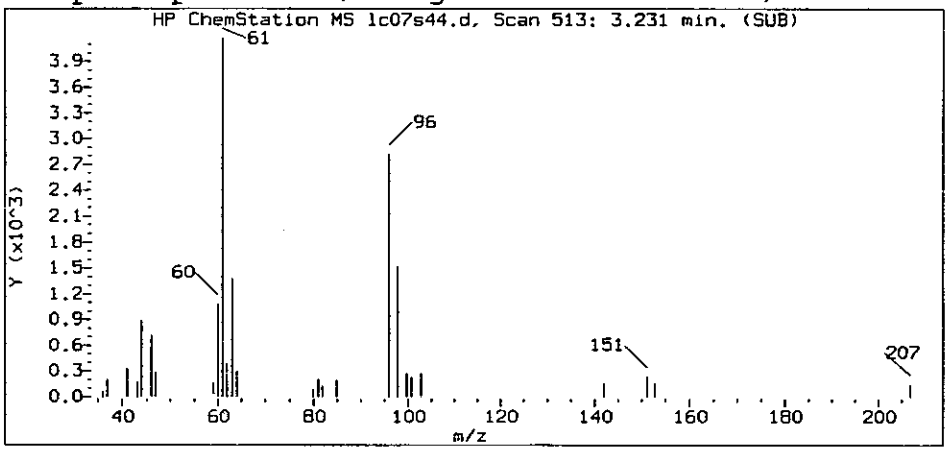
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
19) 1,1-Dichloroethene	(1)	3.231	96	7321	1.961
72)*Fluorobenzene	(1)	7.311	96	984443	50.000
93) Toluene	(2)	9.459	92	9129	0.756
104)*Chlorobenzene-d5	(2)	10.874	117	738607	50.000
137)*1,4-Dichlorobenzene-d4	(3)	12.767	152	412274	50.000
54)$Dibromofluoromethane	(1)	6.379	113	242098	51.036
64)$1,2-Dichloroethane-d4	(1)	6.838	102	57747	50.359
91)$Toluene-d8	(2)	9.378	98	999655	51.809
119)$4-Bromofluorobenzene	(2)	11.883	95	346737	48.889

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

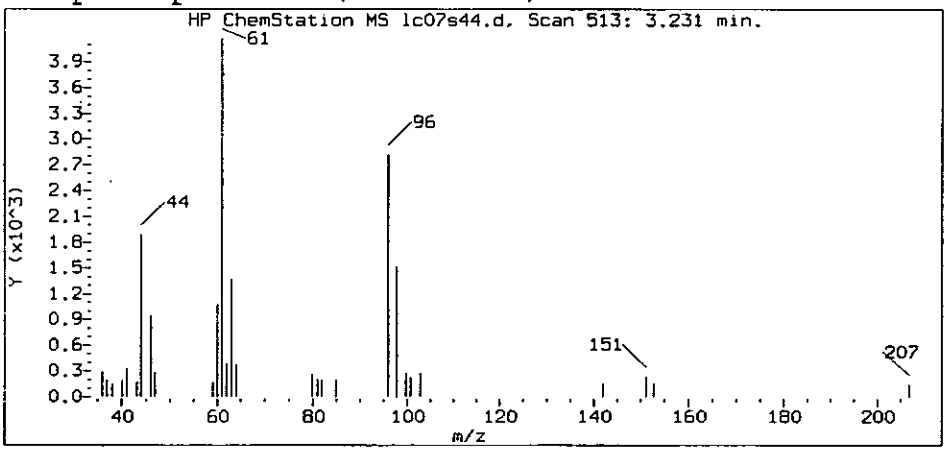
Reference Standard Spectrum for 1,1-Dichloroethene

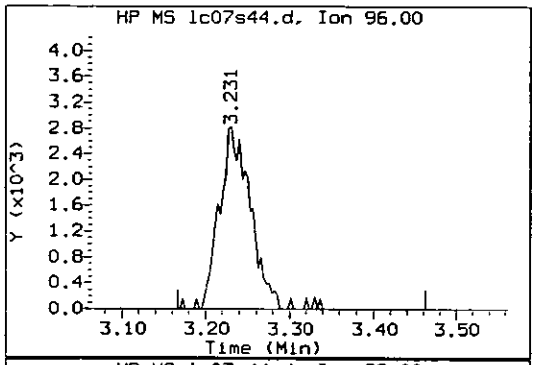


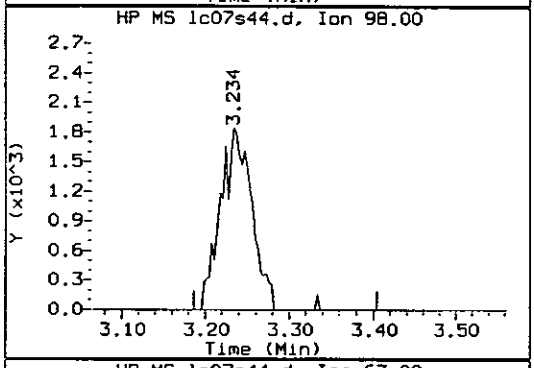
Sample Spectrum (Background Subtracted)

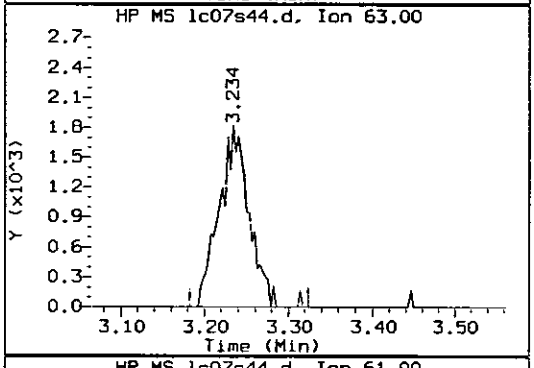


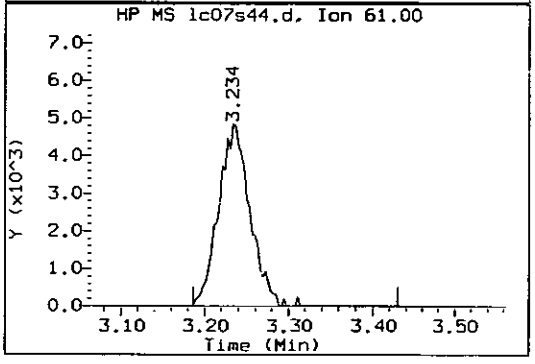
Sample Spectrum (Unaltered)











Data File: /chem/HP09915.i/09oct07b.b/lc07s44.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 01:34 Analyst ID: NPR02223

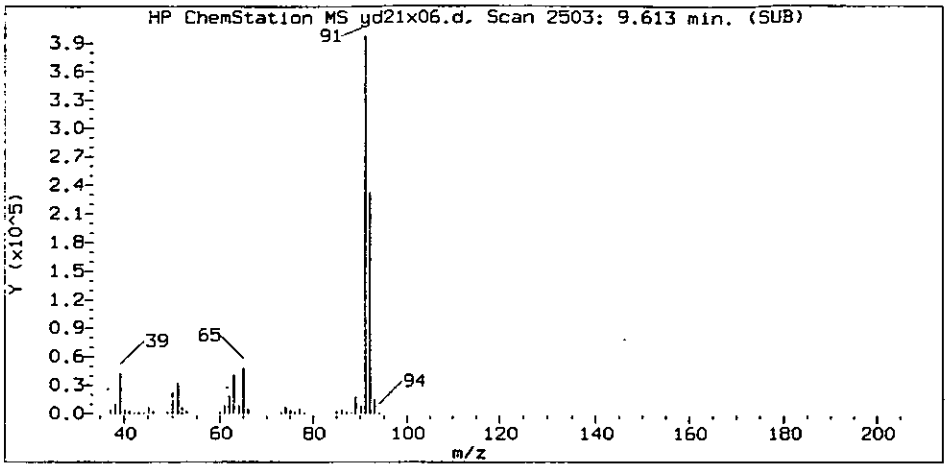
Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: MHW
Calibration date and time: 08-OCT-2009 23:37
Date, time and analyst ID of latest file update: 08-Oct-2009 23:38 maz02012

Sample Name: PAFD2 Lab Sample ID: 5796207

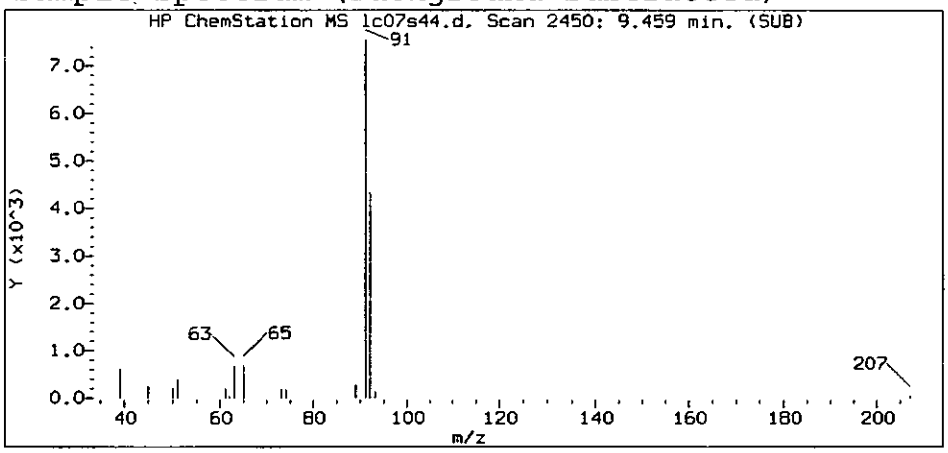
Compound Number	: 19
Compound Name	: 1,1-Dichloroethene
Scan Number	: 513
Retention Time (minutes)	: 3.231
Quant Ion	: 96.0
Area (flag)	: 7321
Concentration (ug/L)	: 1.9609

PTL03 0169

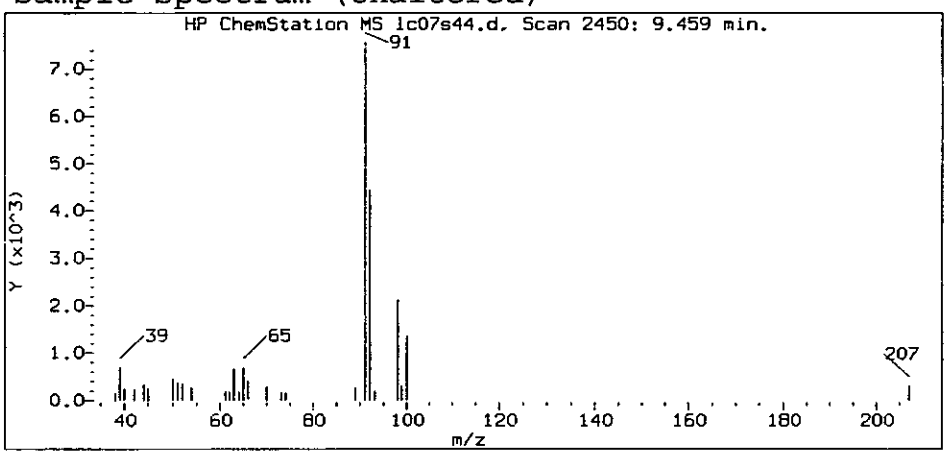
Reference Standard Spectrum for Toluene

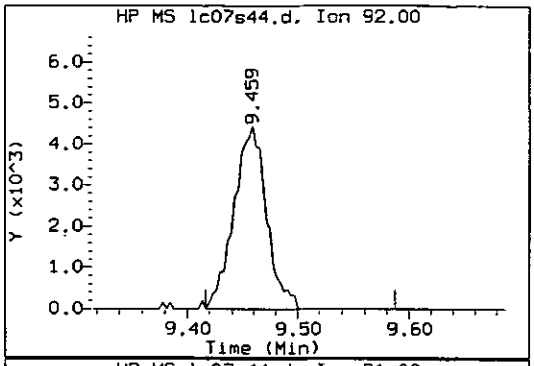


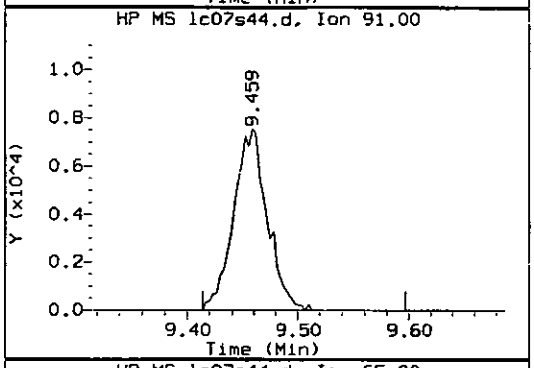
Sample Spectrum (Background Subtracted)

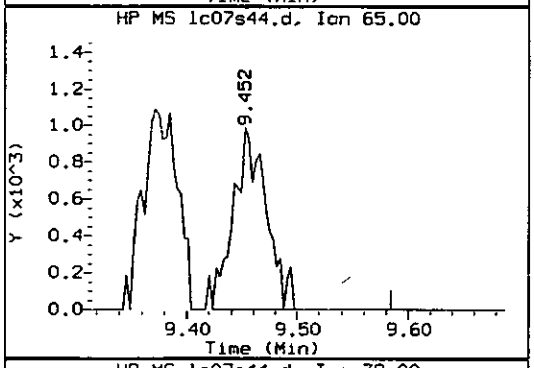


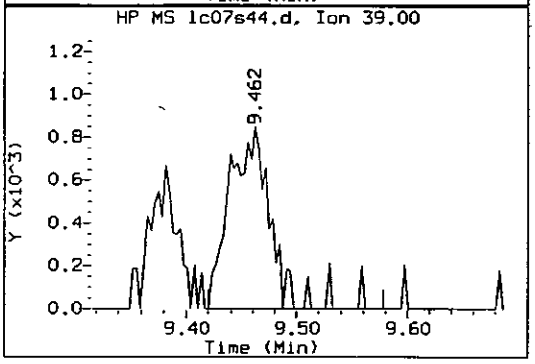
Sample Spectrum (Unaltered)











Data File: /chem/HP09915.i/09oct07b.b/lc07s44.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 01:34 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: MHW
Calibration date and time: 08-OCT-2009 23:37
Date, time and analyst ID of latest file update: 08-Oct-2009 23:38 maz02012

Sample Name: PAFD2 Lab Sample ID: 5796207

Compound Number	:	93
Compound Name	:	Toluene
Scan Number	:	2450
Retention Time (minutes)	:	9.459
Quant Ion	:	92.0
Area (flag)	:	9129
Concentration (ug/L)	:	0.7562

PTL93 0170

PA19S

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796208

File: /chem/HP09915.i/09oct09b.b/lc09s68.d
Sample: PA19S;5796208;1;0;;;;;;;
Injected At:10-OCT-2009 02:29
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.845(-0.016)	704	65	168500(-21)	250.00	
72) Fluorobenzene	7.311(-0.006)	1782	96	911319(-16)	50.00	
104) Chlorobenzene-d5	10.873(-0.003)	2890	117	690220(-15)	50.00	
137) 1,4-Dichlorobenzene-d4	12.767(0.000)	3479	152	384645(-16)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.375(0.000)	113	225663	48.374	97%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.838(0.000)	102	52499	46.604	93%		77 - 113
91) Toluene-d8	(2)	9.378(0.000)	98	926072	48.133	96%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.883(0.000)	95	324174	47.497	95%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
8) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
19) 1,1-Dichloroethene	(1)	3.240(-0.001)	96	6849	1.733	1.73		J	0.80	5.00
21) Acetone	(1)				ND	ND			6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
36) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
45) 2-Butanone	(1)				ND	ND			3.00	10.00
46) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
51) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)				ND	ND			0.80	5.00
57) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
61) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
62) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL83 8171

PA19S

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796208

File: /chem/HP09915.i/09oct09b.b/lc09s68.d
Sample: PA19S;5796208;1;0;;;;;;;
Injected At:10-OCT-2009 02:29
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
80) Dibromomethane	(1)					ND	ND			1.00	5.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
107) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
108) Ethylbenzene	(2)					ND	ND			0.80	5.00
109) m+p-Xylene	(2)					ND	ND			0.80	5.00
111) o-Xylene	(2)					ND	ND			0.80	5.00
112) Styrene	(2)					ND	ND			1.00	5.00
113) Bromoform	(2)					ND	ND			1.00	5.00
115) Isopropylbenzene	(2)					ND	ND			1.00	5.00
120) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0172

PA19S

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796208

File: /chem/HP09915.i/09oct09b.b/lc09s68.d
Sample: PA19S;5796208;1;0;;;;;;;
Injected At:10-OCT-2009 02:29
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: MWH

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
143) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
147) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
148) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
149) Naphthalene	(3)					ND	ND			1.00	5.00
150) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

Analyst: CBE1907 Date: 10/14/09

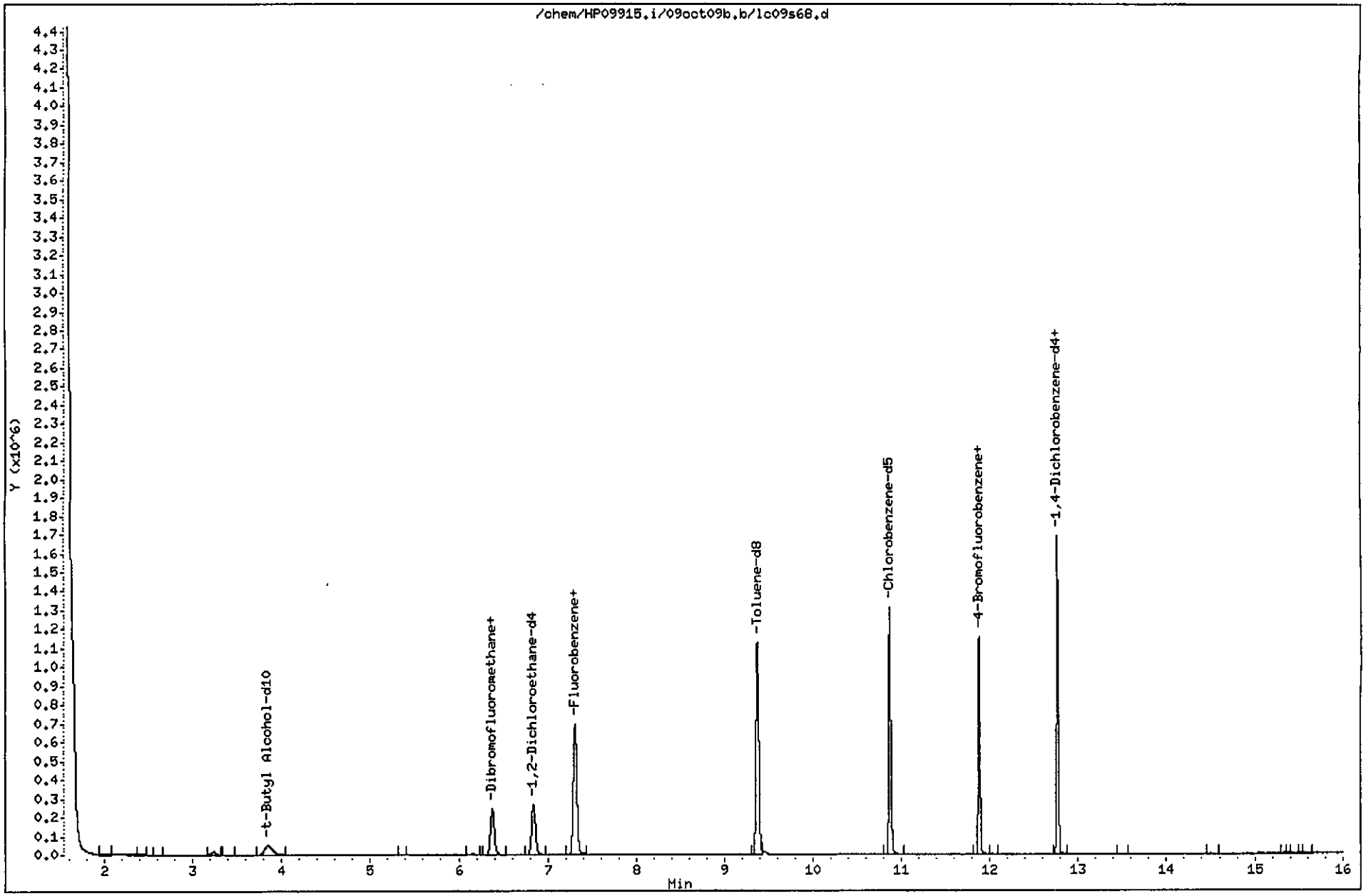
Auditor: Date: 10/17/09

PTL03 0173

Data File: /chem/HP09915.i/09oct09b.b/lc09s68.d
Date : 10-OCT-2009 02:29
Client ID: PA19S
Sample Info: PA19S;5796208;1;0;;;;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i
Operator: KDP02245
Column diameter: 0.25

PTL27-0174



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct09b.b/lc09s68.d Instrument ID: HP09915.i
Injection date and time: 10-OCT-2009 02:29 Analyst ID: KDP02245

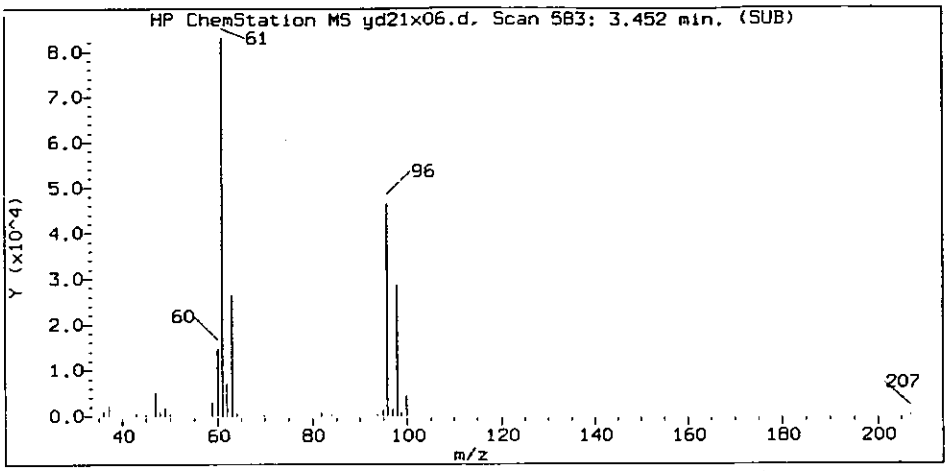
Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: MWH
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 22:37 maz02012

Sample Name: PA19S Lab Sample ID: 5796208

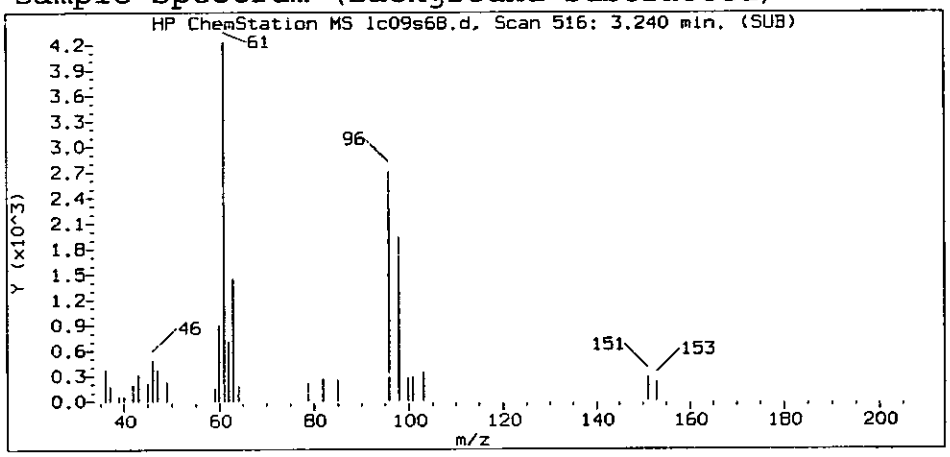
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
19) 1,1-Dichloroethene	(1)	3.240	96	6849	1.733
30)*t-Butyl Alcohol-d10	(4)	3.845	65	168500	250.000
72)*Fluorobenzene	(1)	7.311	96	911319	50.000
104)*Chlorobenzene-d5	(2)	10.873	117	690220	50.000
137)*1,4-Dichlorobenzene-d4	(3)	12.767	152	384645	50.000
54)$Dibromofluoromethane	(1)	6.375	113	225663	48.374
64)$1,2-Dichloroethane-d4	(1)	6.838	102	52499	46.604
91)$Toluene-d8	(2)	9.378	98	926072	48.133
119)$4-Bromofluorobenzene	(2)	11.883	95	324174	47.497

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

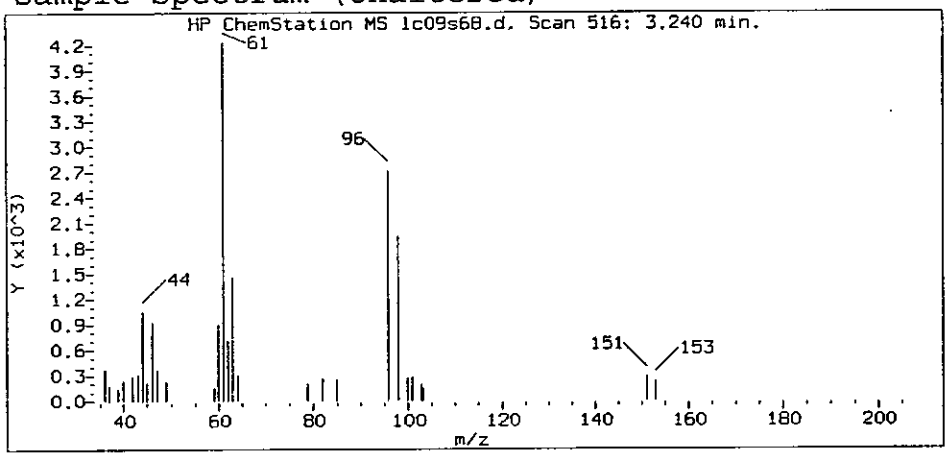
Reference Standard Spectrum for 1,1-Dichloroethene

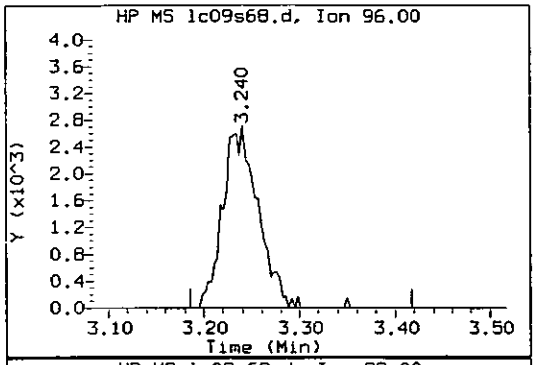


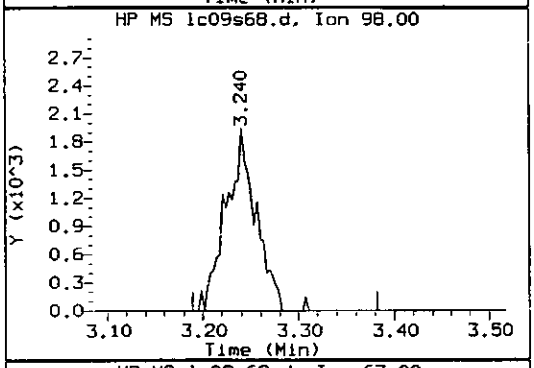
Sample Spectrum (Background Subtracted)

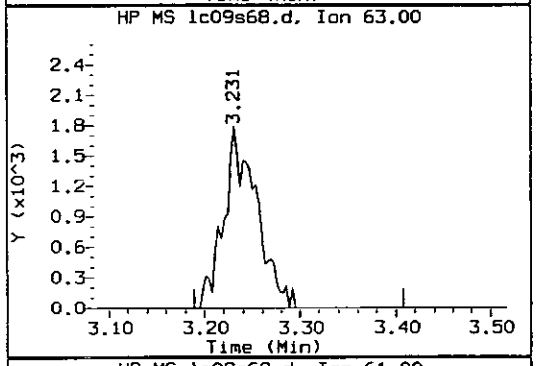


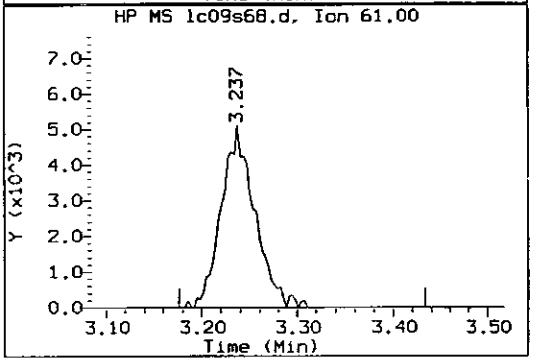
Sample Spectrum (Unaltered)











Data File: /chem/HP09915.i/09oct09b.b/lc09s68.d
Injection date and time: 10-OCT-2009 02:29

Instrument ID: HP09915.i
Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m
Calibration date and time: 12-OCT-2009 22:35

Sublist used: MWH

Date, time and analyst ID of latest file update: 12-Oct-2009 22:37 maz02012

Sample Name: PA19S

Lab Sample ID: 5796208

Compound Number	: 19
Compound Name	: 1,1-Dichloroethene
Scan Number	: 516
Retention Time (minutes)	: 3.240
Quant Ion	: 96.0
Area (flag)	: 6849
Concentration (ug/L)	: 1.7330

PTL03 8176

PA19D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796209

File: /chem/HP09915.i/09oct07b.b/lc07s39.d
Sample: PA19D;5796209;1;0;;;;;;;
Injected At:07-OCT-2009 23:45
Calibration Time: 24-SEP-2009 09:28
Target Method: L8260W.m
Blank Reference: lc07b03.d
Sublist: MHW

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
72) Fluorobenzene	7.311(-0.006)	1782	96	986875(-12)	50.00	
104) Chlorobenzene-d5	10.874(0.000)	2890	117	734798(-12)	50.00	
137) 1,4-Dichlorobenzene-d4	12.767(0.000)	3479	152	406426(-16)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.379(0.000)	113	240657	50.607	101%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.842(0.000)	102	56518	49.165	98%		77 - 113
91) Toluene-d8	(2)	9.375(0.000)	98	988070	51.474	103%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.880(0.000)	95	345655	48.989	98%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
8) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
19) 1,1-Dichloroethene	(1)	3.231(0.000)	96	15472	4.134	4.13		J	0.80	5.00
21) Acetone	(1)				ND	ND			6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
36) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
45) 2-Butanone	(1)				ND	ND			3.00	10.00
46) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
51) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)	6.154(0.000)	83	8696	1.072	1.07		J	0.80	5.00
57) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
61) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
62) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0177

PA19D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796209

File: /chem/HP09915.i/09oct07b.b/lc07s39.d
Sample: PA19D;5796209;1;0;;;;;;;
Injected At:07-OCT-2009 23:45
Calibration Time: 24-SEP-2009 09:28
Target Method: L8260W.m
Blank Reference: lc07b03.d
Sublist: MHW

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
80) Dibromomethane	(1)					ND	ND			1.00	5.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
107) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
108) Ethylbenzene	(2)					ND	ND			0.80	5.00
109) m+p-Xylene	(2)					ND	ND			0.80	5.00
111) o-Xylene	(2)					ND	ND			0.80	5.00
112) Styrene	(2)					ND	ND			1.00	5.00
113) Bromoform	(2)					ND	ND			1.00	5.00
115) Isopropylbenzene	(2)					ND	ND			1.00	5.00
120) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL83 0178

PA19D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796209

File: /chem/HP09915.i/09oct07b.b/lc07s39.d
Sample: PA19D;5796209;1;0;;;;;;;
Injected At:07-OCT-2009 23:45
Calibration Time: 24-SEP-2009 09:28
Target Method: L8260W.m
Blank Reference: lc07b03.d
Sublist: MHW

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
143) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
147) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
148) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
149) Naphthalene	(3)					ND	ND			1.00	5.00
150) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: CNT

Analyst: MS 2012 Date: 10/8/09

Auditor: [signature] Date: 10-10-09

PTL03 0179

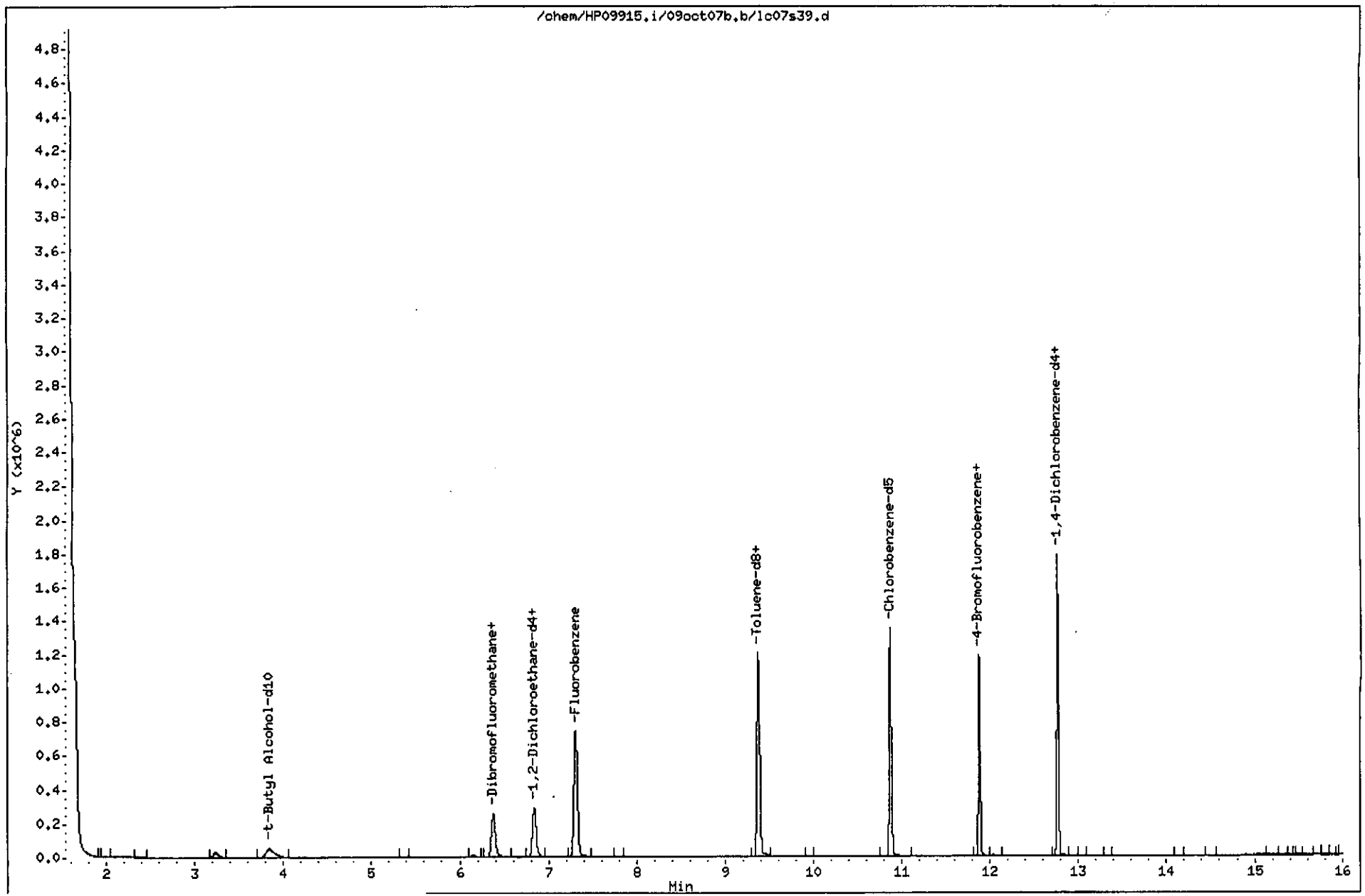
Data File: /chem/HP09915.i/09oct07b.b/lc07s39.d
Date : 07-OCT-2009 23:45
Client ID: PA19D
Sample Info: PA19D;5796209;1;0;;;;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: NPR02223
Column diameter: 0.25

MA/2ch 10/09/

PTL03 #198



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct07b.b/lc07s39.d Instrument ID: HP09915.i
Injection date and time: 07-OCT-2009 23:45 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: MHW
Calibration date and time: 24-SEP-2009 09:28
Date, time and analyst ID of latest file update: 08-Oct-2009 23:37 maz02012

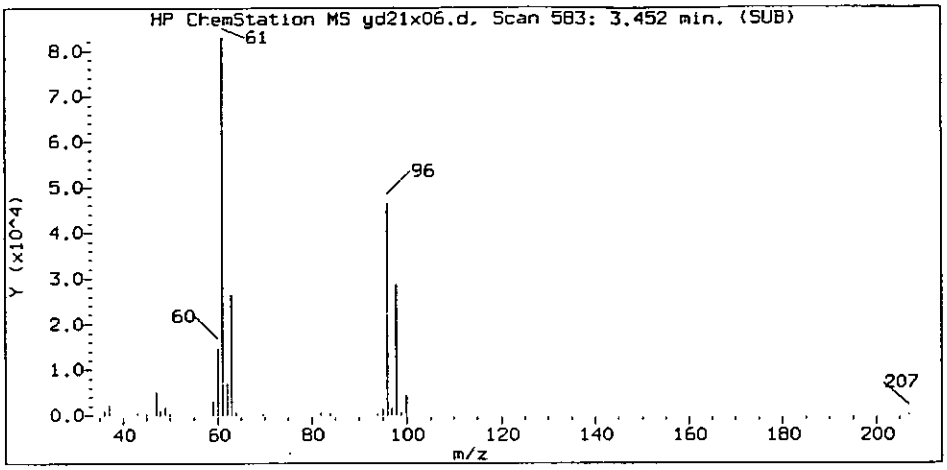
Sample Name: PA19D Lab Sample ID: 5796209

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
19) 1,1-Dichloroethene	(1)	3.231	96	15472	4.134
53) Chloroform	(1)	6.154	83	8696	1.072
72)*Fluorobenzene	(1)	7.311	96	986875	50.000
104)*Chlorobenzene-d5	(2)	10.874	117	734798	50.000
137)*1,4-Dichlorobenzene-d4	(3)	12.767	152	406426	50.000
54)$Dibromofluoromethane	(1)	6.379	113	240657	50.607
64)$1,2-Dichloroethane-d4	(1)	6.842	102	56518	49.165
91)$Toluene-d8	(2)	9.375	98	988070	51.474
119)$4-Bromofluorobenzene	(2)	11.880	95	345655	48.989

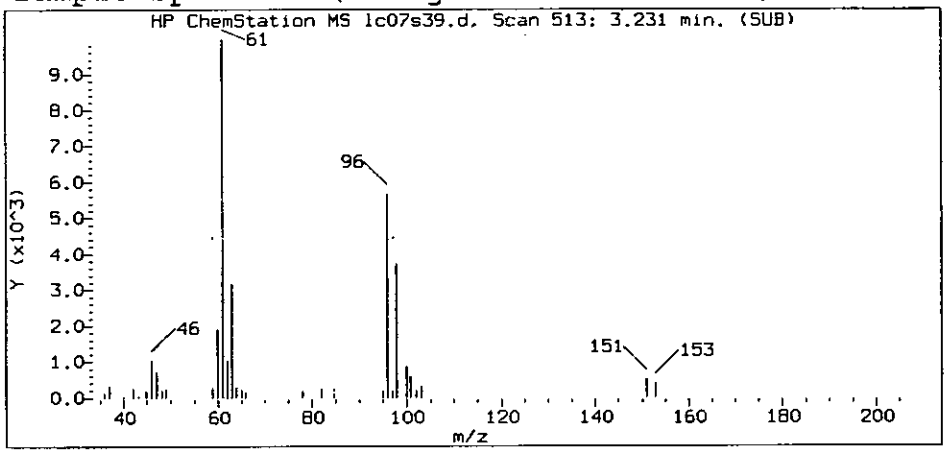
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PTL03 8181

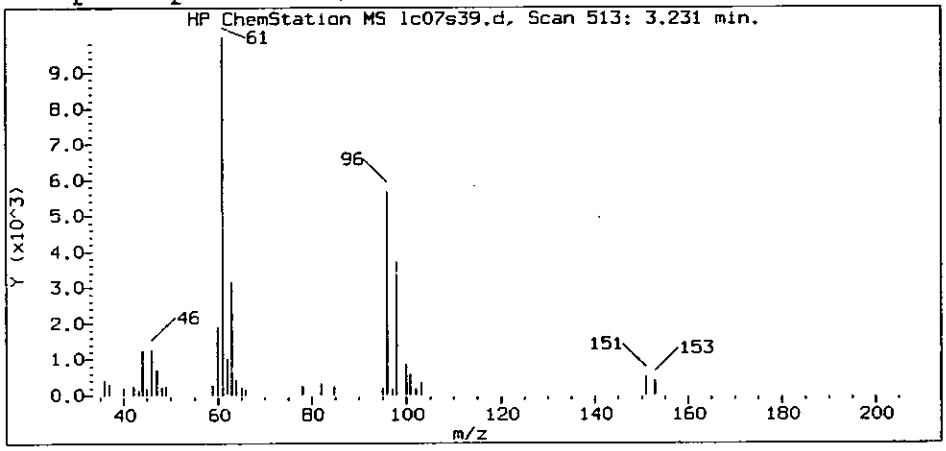
Reference Standard Spectrum for 1,1-Dichloroethene

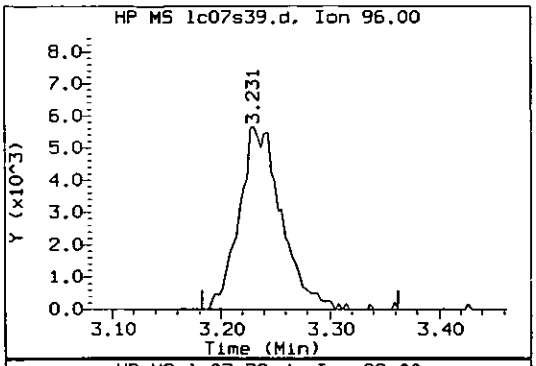


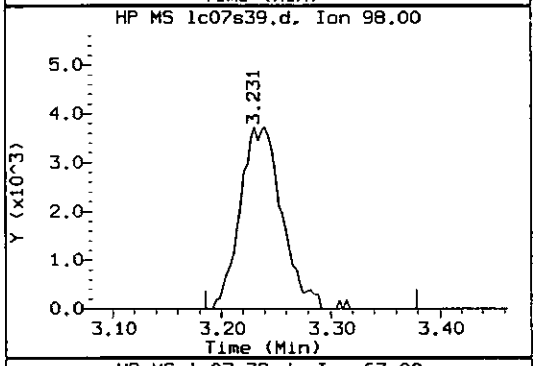
Sample Spectrum (Background Subtracted)

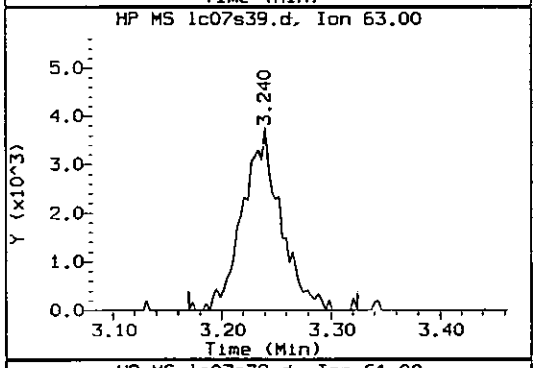


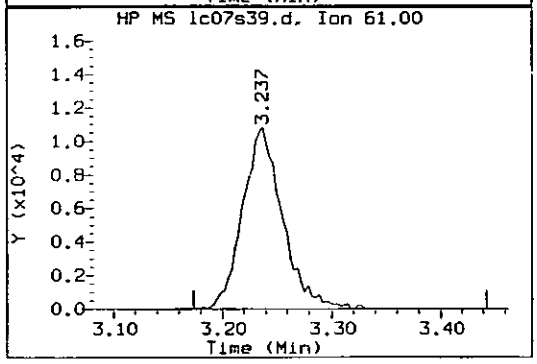
Sample Spectrum (Unaltered)











Data File: /chem/HP09915.i/09oct07b.b/lc07s39.d
Injection date and time: 07-OCT-2009 23:45

Instrument ID: HP09915.i
Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m
Calibration date and time: 08-OCT-2009 23:37

Sublist used: MHW

Date, time and analyst ID of latest file update: 08-Oct-2009 23:37 maz02012

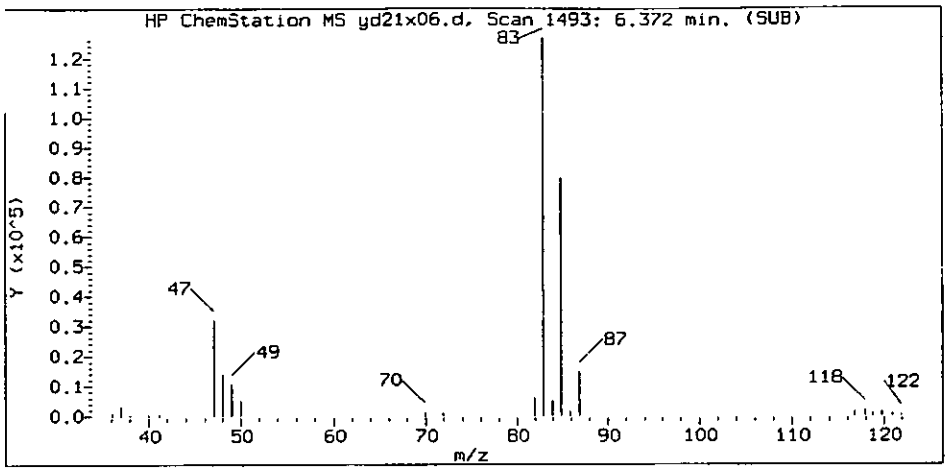
Sample Name: PA19D

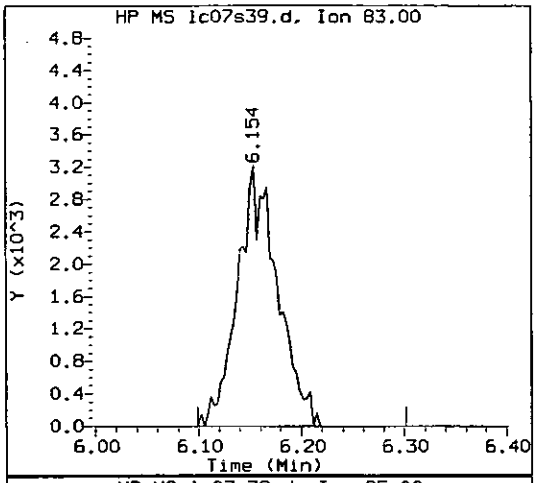
Lab Sample ID: 5796209

Compound Number	: 19
Compound Name	: 1,1-Dichloroethene
Scan Number	: 513
Retention Time (minutes)	: 3.231
Quant Ion	: 96.0
Area (flag)	: 15472
Concentration (ug/L)	: 4.1339

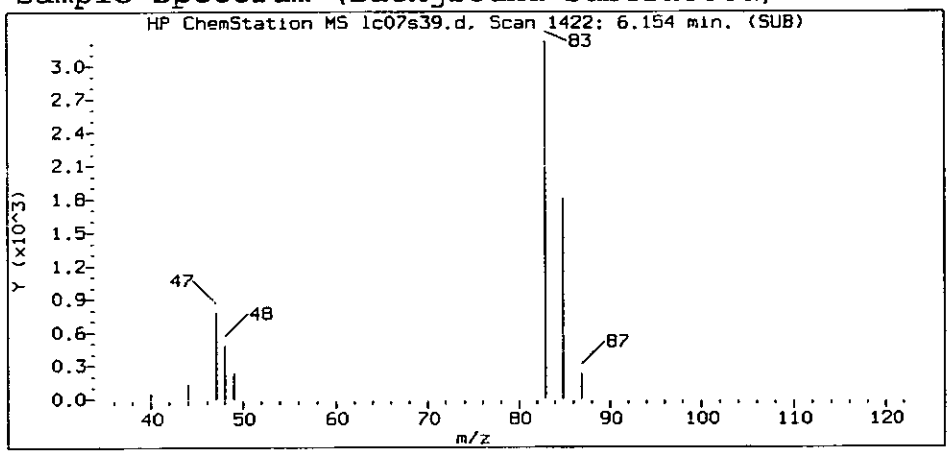
PTL03 0182

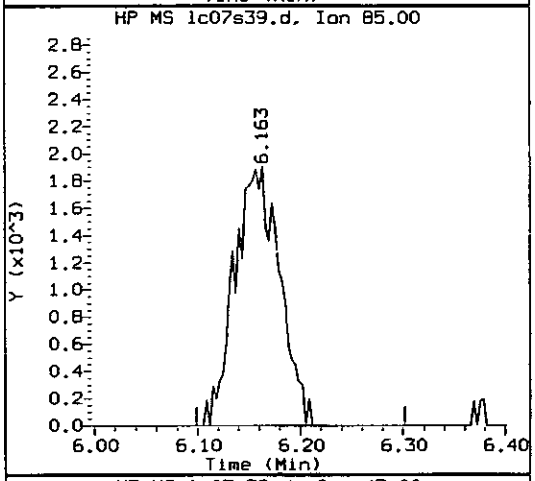
Reference Standard Spectrum for Chloroform



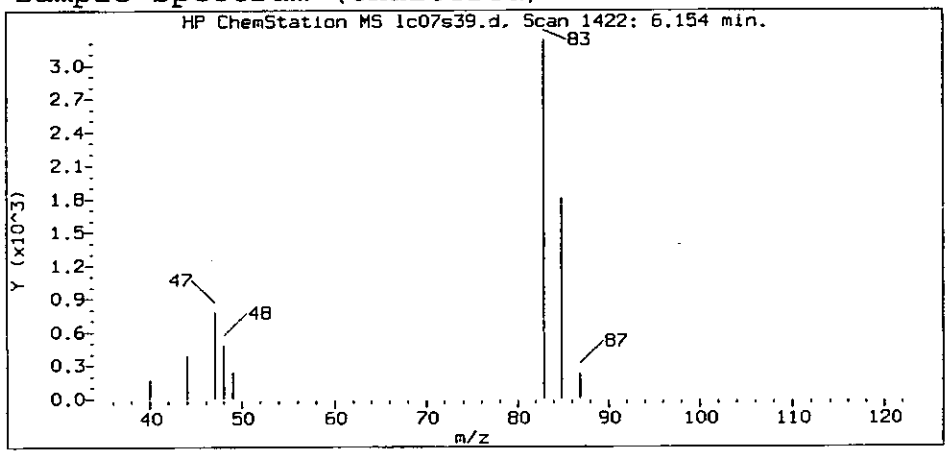


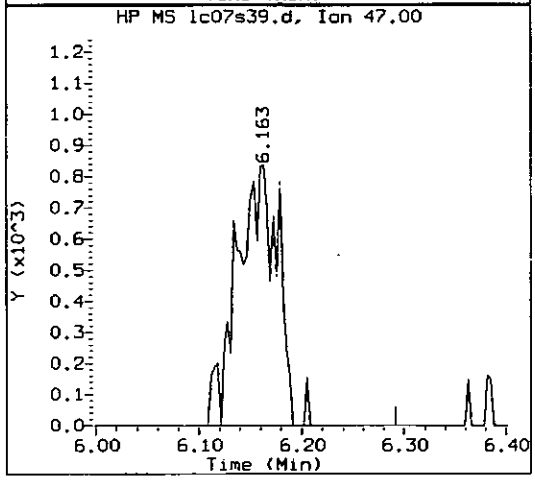
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09915.i/09oct07b.b/lc07s39.d
Injection date and time: 07-OCT-2009 23:45

Instrument ID: HP09915.i
Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m
Calibration date and time: 08-OCT-2009 23:37

Sublist used: MHW

Date, time and analyst ID of latest file update: 08-Oct-2009 23:37 maz02012

Sample Name: PA19D

Lab Sample ID: 5796209

Compound Number	: 53
Compound Name	: Chloroform
Scan Number	: 1422
Retention Time (minutes)	: 6.154
Quant Ion	: 83.0
Area (flag)	: 8696
Concentration (ug/L)	: 1.0722

PTL83 8183

PA20S

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796212

File: /chem/HP09915.i/09oct07b.b/lc07s42.d
Sample: PA20S;5796212;1;0;;;;;;;
Injected At:08-OCT-2009 00:51
Calibration Time: 24-SEP-2009 09:28
Target Method: L8260W.m
Blank Reference: lc07b03.d
Sublist: MHW

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
72) Fluorobenzene	7.305(0.000)	1780	96	1045153(-7)	50.00	
104) Chlorobenzene-d5	10.874(0.000)	2890	117	770762(-8)	50.00	
137) 1,4-Dichlorobenzene-d4	12.767(0.000)	3479	152	406784(-16)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.379(-0.001)	113	255440	50.720	101%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.835(0.000)	102	61046	50.143	100%		77 - 113
91) Toluene-d8	(2)	9.375(0.000)	98	1045781	51.938	104%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.880(0.000)	95	347081	46.896	94%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
8) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
19) 1,1-Dichloroethene	(1)	3.231(0.000)	96	29081	7.337	7.34			0.80	5.00
21) Acetone	(1)				ND	ND			6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
36) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
45) 2-Butanone	(1)				ND	ND			3.00	10.00
46) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
51) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)				ND	ND			0.80	5.00
57) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
61) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
62) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0184

PA20S

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5796212

File: /chem/HP09915.i/09oct07b.b/lc07s42.d
Sample: PA20S;5796212;1;0;;;;;;;
Injected At:08-OCT-2009 00:51
Calibration Time: 24-SEP-2009 09:28
Target Method: L8260W.m
Blank Reference: lc07b03.d
Sublist: MHW

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
80) Dibromomethane	(1)					ND	ND			1.00	5.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
107) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
108) Ethylbenzene	(2)					ND	ND			0.80	5.00
109) m+p-Xylene	(2)					ND	ND			0.80	5.00
111) o-Xylene	(2)					ND	ND			0.80	5.00
112) Styrene	(2)					ND	ND			1.00	5.00
113) Bromoform	(2)					ND	ND			1.00	5.00
115) Isopropylbenzene	(2)					ND	ND			1.00	5.00
120) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0185

PA20S

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5796212

File: /chem/HP09915.i/09oct07b.b/lc07s42.d
Sample: PA20S;5796212;1;0;;;;;;;
Injected At:08-OCT-2009 00:51
Calibration Time: 24-SEP-2009 09:28
Target Method: LB260W.m
Blank Reference: lc07b03.d
Sublist: MHW

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
143) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
147) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
148) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
149) Naphthalene	(3)					ND	ND			1.00	5.00
150) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

Analyst: _____ Date: 10/8/09

Auditor: _____ Date: 10-10-09

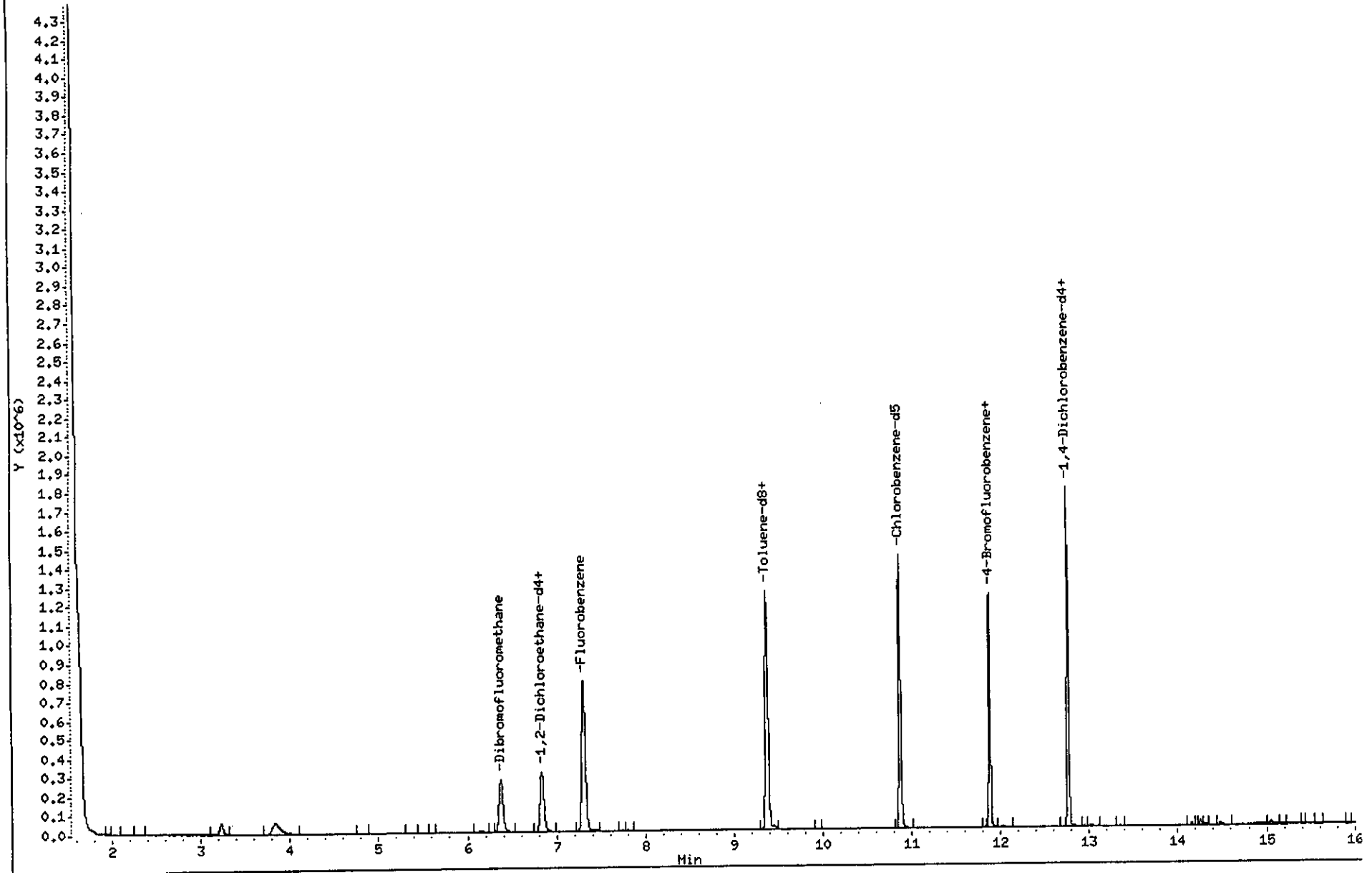
PTL83 8196

Data File: /chem/HP09915.i/09oct07b.b/lc07s42.d
Date : 08-OCT-2009 00:51
Client ID: PA20S
Sample Info: PA20S;5796212;1;0;;;;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: NPR02223
Column diameter: 0.25

/chem/HP09915.i/09oct07b.b/lc07s42.d



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct07b.b/lc07s42.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 00:51 Analyst ID: NPR02223

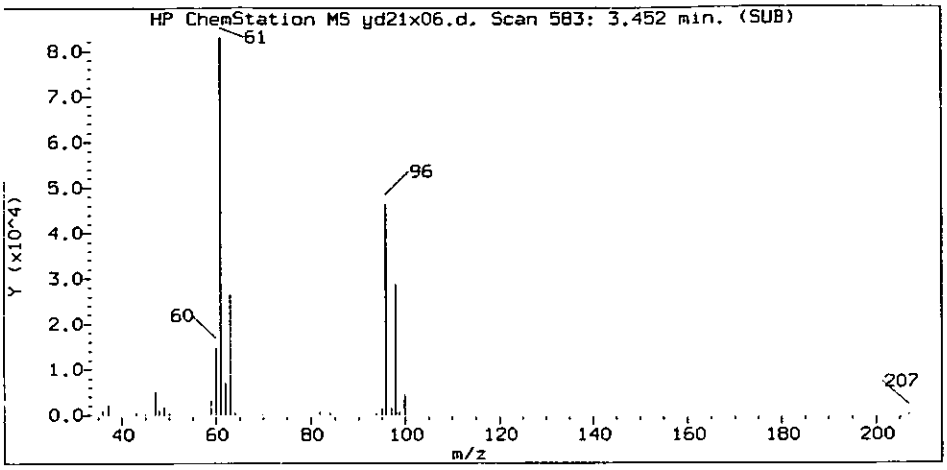
Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: MHW
Calibration date and time: 24-SEP-2009 09:28
Date, time and analyst ID of latest file update: 08-Oct-2009 23:38 maz02012

Sample Name: PA20S Lab Sample ID: 5796212

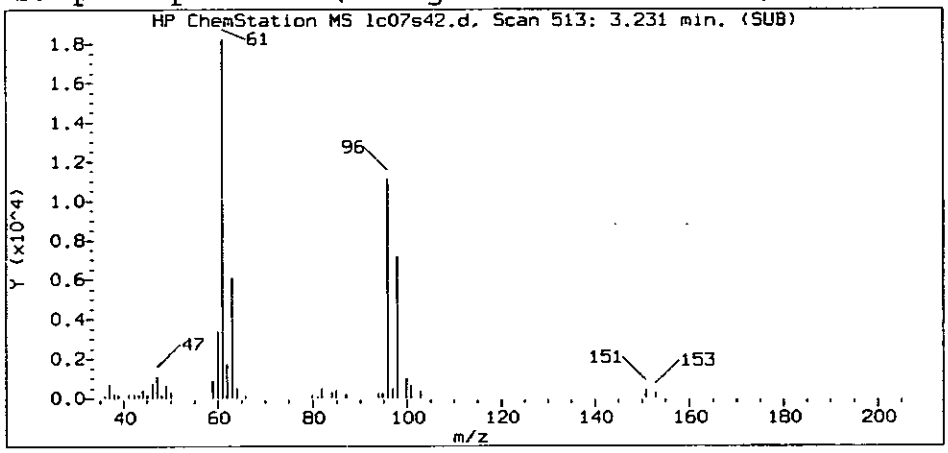
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
19) 1,1-Dichloroethene	(1)	3.231	96	29081	7.337
72)*Fluorobenzene	(1)	7.305	96	1045153	50.000
104)*Chlorobenzene-d5	(2)	10.874	117	770762	50.000
137)*1,4-Dichlorobenzene-d4	(3)	12.767	152	406784	50.000
54)$Dibromofluoromethane	(1)	6.379	113	255440	50.720
64)$1,2-Dichloroethane-d4	(1)	6.835	102	61046	50.143
91)$Toluene-d8	(2)	9.375	98	1045781	51.938
119)$4-Bromofluorobenzene	(2)	11.880	95	347081	46.896

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

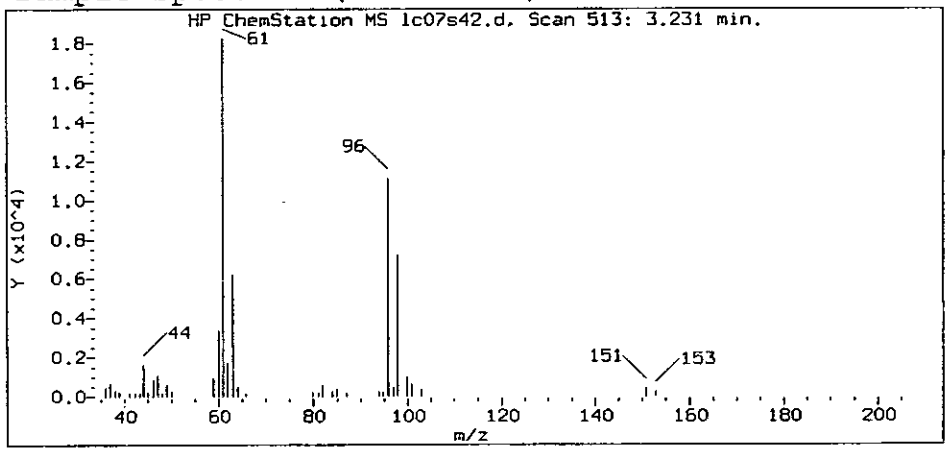
Reference Standard Spectrum for 1,1-Dichloroethene

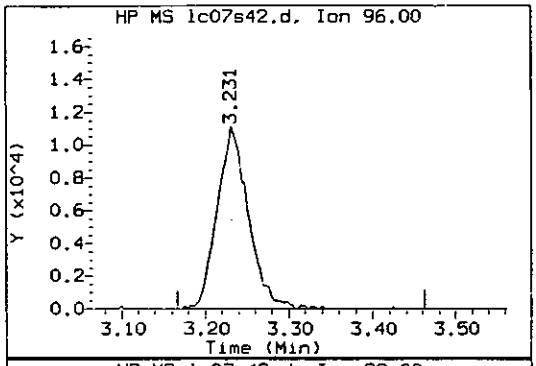


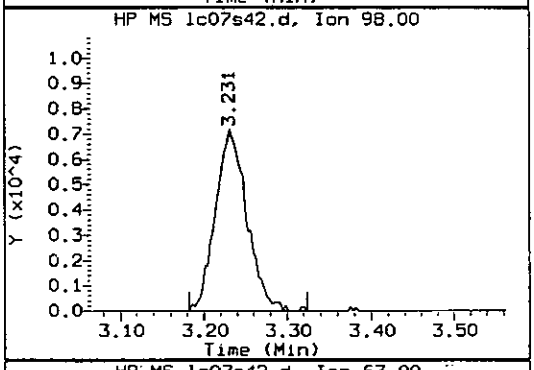
Sample Spectrum (Background Subtracted)

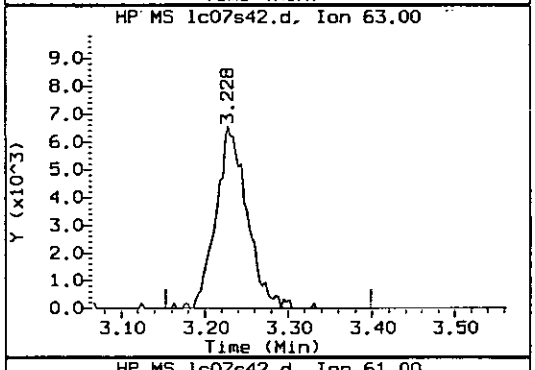


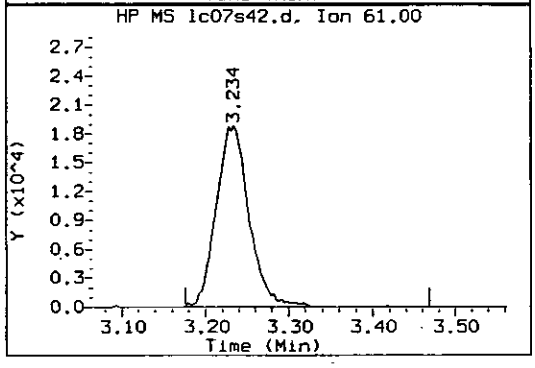
Sample Spectrum (Unaltered)











Data File: /chem/HP09915.i/09oct07b.b/lc07s42.d
Injection date and time: 08-OCT-2009 00:51

Instrument ID: HP09915.i
Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m
Calibration date and time: 08-OCT-2009 23:37

Sublist used: MHW

Date, time and analyst ID of latest file update: 08-Oct-2009 23:38 maz02012

Sample Name: PA20S

Lab Sample ID: 5796212

Compound Number	: 19
Compound Name	: 1,1-Dichloroethene
Scan Number	: 513
Retention Time (minutes)	: 3.231
Quant Ion	: 96.0
Area (flag)	: 29081
Concentration (ug/L)	: 7.3367

PTL03 8189

PA20D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796213

File: /chem/HP09915.i/09oct07b.b/lc07s43.d
Sample: PA20D;5796213;1;0;;;;;;;
Injected At:08-OCT-2009 01:12
Calibration Time: 24-SEP-2009 09:28
Target Method: L8260W.m
Blank Reference: lc07b03.d
Sublist: MHW

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
72) Fluorobenzene	7.311(-0.006)	1782	96	1034096(-8)	50.00	
104) Chlorobenzene-d5	10.874(0.000)	2890	117	760911(-9)	50.00	
137) 1,4-Dichlorobenzene-d4	12.767(0.000)	3479	152	420438(-14)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.379(0.000)	113	250719	50.315	101%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.838(0.000)	102	59116	49.077	98%		77 - 113
91) Toluene-d8	(2)	9.375(0.000)	98	1028982	51.766	104%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.880(0.000)	95	358117	49.013	98%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
8) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
19) 1,1-Dichloroethene	(1)	3.234(0.000)	96	110237	28.109	28.11			0.80	5.00
21) Acetone	(1)				ND	ND			6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
36) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
45) 2-Butanone	(1)				ND	ND			3.00	10.00
46) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
51) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)	6.150(0.001)	83	8570	1.008	1.01		J	0.80	5.00
57) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
61) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
62) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 8192

PA20D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796213

File: /chem/HP09915.i/09oct07b.b/lc07s43.d
Sample: PA20D;5796213;1;0;;;;;;;
Injected At:08-OCT-2009 01:12
Calibration Time: 24-SEP-2009 09:28
Target Method: L8260W.m
Blank Reference: lc07b03.d
Sublist: MHW

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:**L092802AA**
Analyst:**NPR02223**
Instrument ID:**HP09915.i**
Standard Reference: lc07c02.d
Prep Factor:**1.00**
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:**38A**

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
80) Dibromomethane	(1)					ND	ND			1.00	5.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
107) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
108) Ethylbenzene	(2)					ND	ND			0.80	5.00
109) m+p-Xylene	(2)					ND	ND			0.80	5.00
111) o-Xylene	(2)					ND	ND			0.80	5.00
112) Styrene	(2)					ND	ND			1.00	5.00
113) Bromoform	(2)					ND	ND			1.00	5.00
115) Isopropylbenzene	(2)					ND	ND			1.00	5.00
120) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 8191

PA20D

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796213

File: /chem/HP09915.i/09oct07b.b/1c07s43.d
Sample: PA20D;5796213;1;0;;;;;;;
Injected At:08-OCT-2009 01:12
Calibration Time: 24-SEP-2009 09:28
Target Method: L8260W.m
Blank Reference: 1c07b03.d
Sublist: MHW

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: 1c07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
143) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
147) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
148) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
149) Naphthalene	(3)					ND	ND			1.00	5.00
150) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

Analyst: MA 10/6/09 Date: 10/6/09

Auditor: [signature] Date: 10-10-09

PTL83.8192

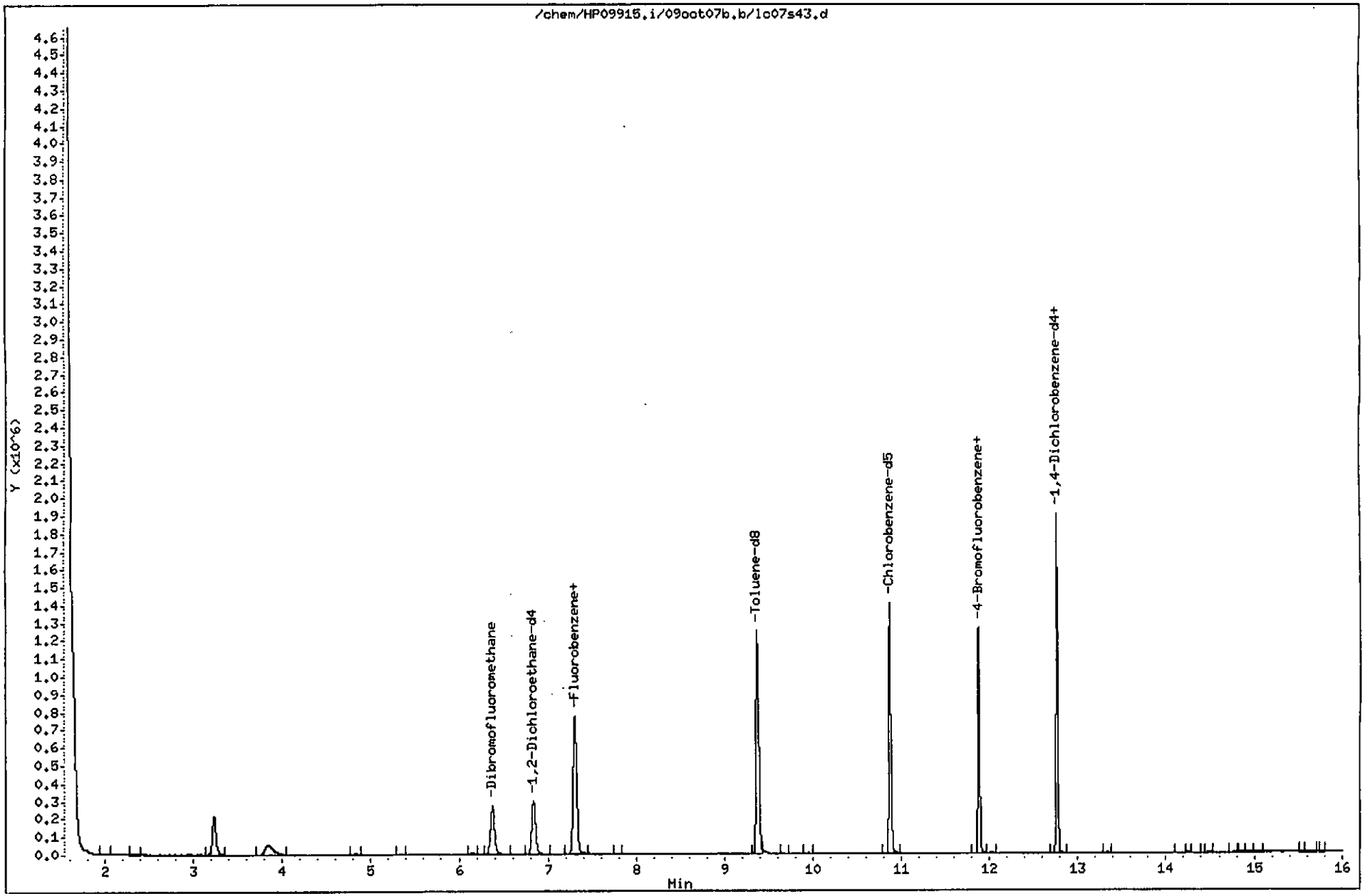
Data File: /chem/HP09915.i/09oct07b.b/lc07s43.d
Date : 08-OCT-2009 01:12
Client ID: PA20D
Sample Info: PA20D;5796213;1;0;;;;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: NPR02223
Column diameter: 0.25

Malcom 10/8/09

PTL83 8193



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct07b.b/lc07s43.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 01:12 Analyst ID: NPR02223

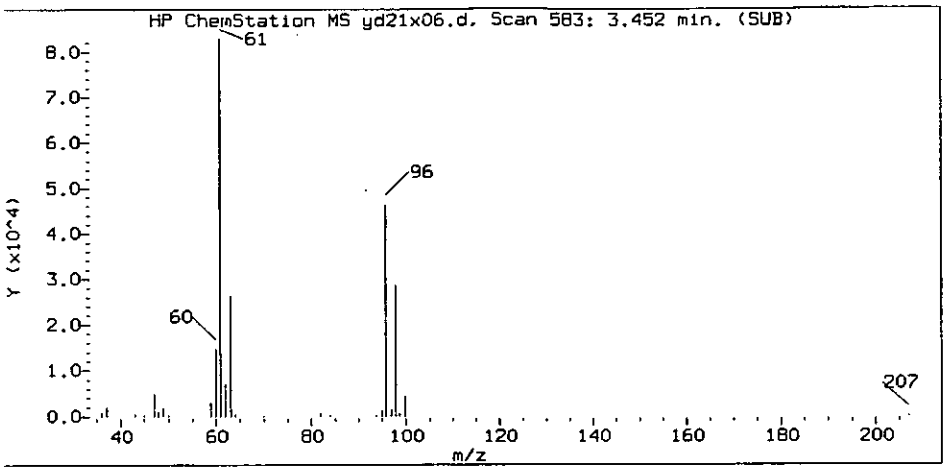
Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: MHW
Calibration date and time: 24-SEP-2009 09:28
Date, time and analyst ID of latest file update: 08-Oct-2009 23:47 maz02012

Sample Name: PA20D Lab Sample ID: 5796213

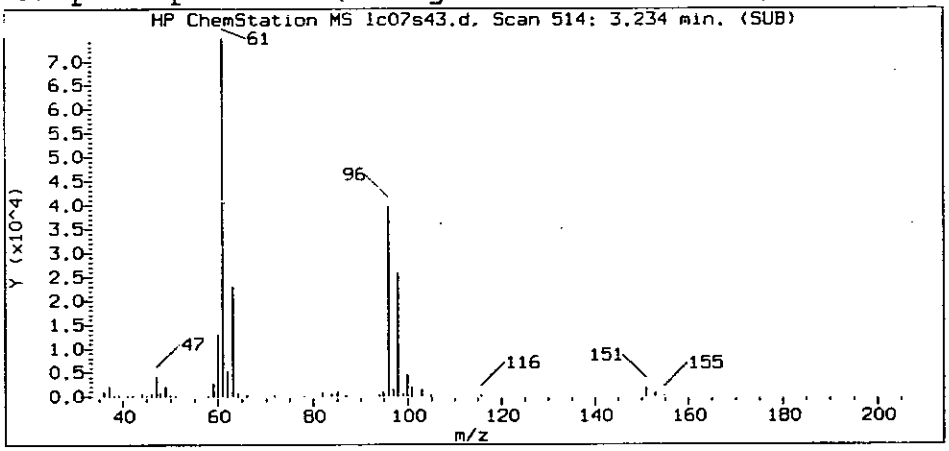
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
19) 1,1-Dichloroethene	(1)	3.234	96	110237	28.109
53) Chloroform	(1)	6.150	83	8570	1.008
72)*Fluorobenzene	(1)	7.311	96	1034096	50.000
104)*Chlorobenzene-d5	(2)	10.874	117	760911	50.000
137)*1,4-Dichlorobenzene-d4	(3)	12.767	152	420438	50.000
54)$Dibromofluoromethane	(1)	6.379	113	250719	50.315
64)$1,2-Dichloroethane-d4	(1)	6.838	102	59116	49.077
91)$Toluene-d8	(2)	9.375	98	1028982	51.766
119)$4-Bromofluorobenzene	(2)	11.880	95	358117	49.013

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

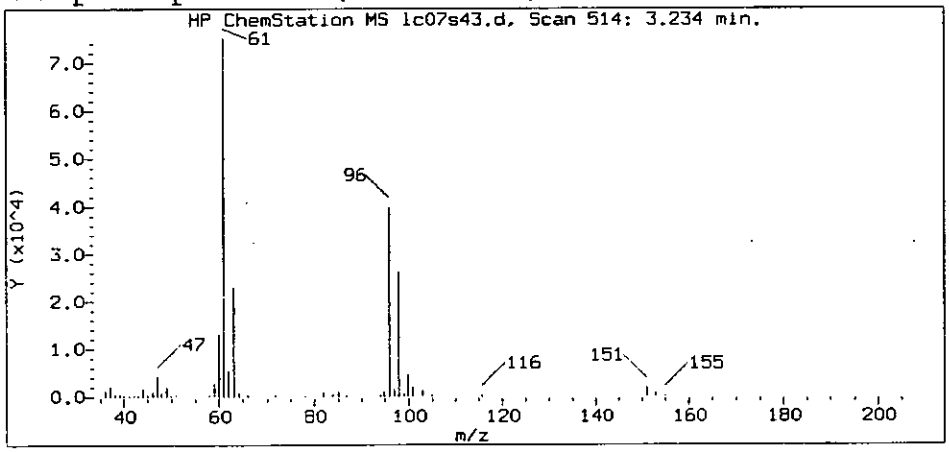
Reference Standard Spectrum for 1,1-Dichloroethene

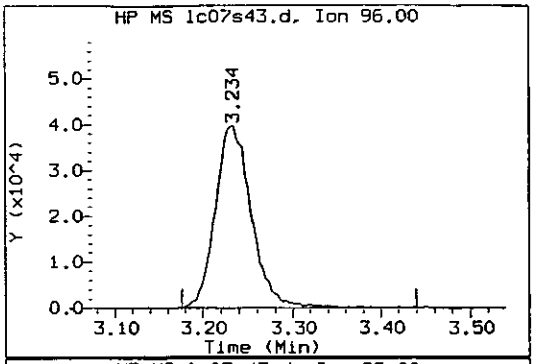


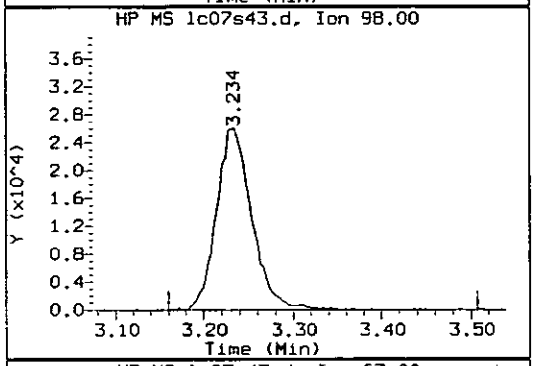
Sample Spectrum (Background Subtracted)

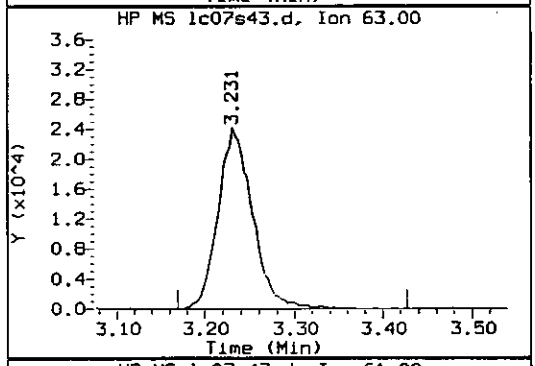


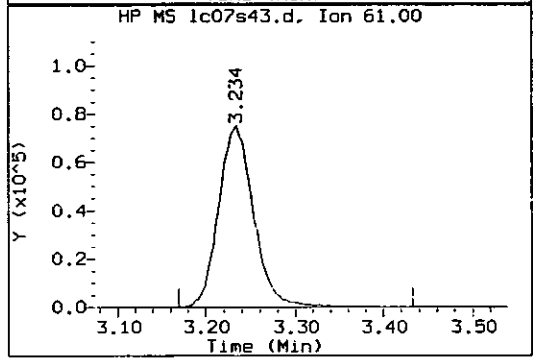
Sample Spectrum (Unaltered)











Data File: /chem/HP09915.i/09oct07b.b/lc07s43.d
Injection date and time: 08-OCT-2009 01:12

Instrument ID: HP09915.i
Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m
Calibration date and time: 08-OCT-2009 23:37

Sublist used: MHW

Date, time and analyst ID of latest file update: 08-Oct-2009 23:47 maz02012

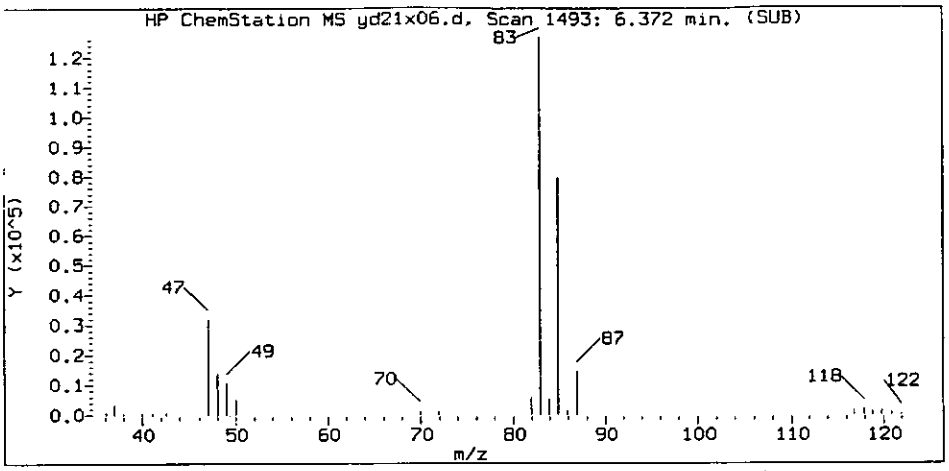
Sample Name: PA20D

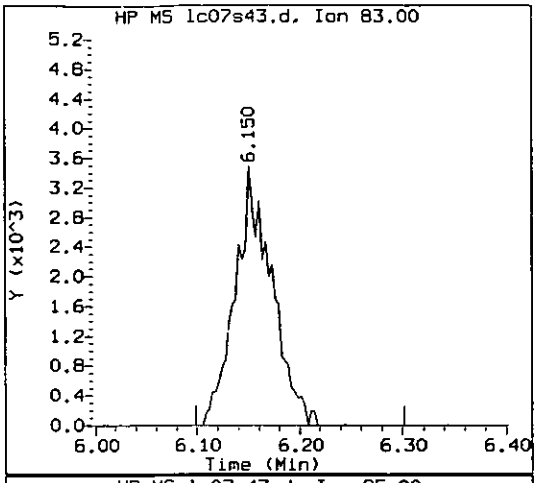
Lab Sample ID: 5796213

Compound Number	: 19
Compound Name	: 1,1-Dichloroethene
Scan Number	: 514
Retention Time (minutes)	: 3.234
Quant Ion	: 96.0
Area (flag)	: 110237
Concentration (ug/L)	: 28.1086

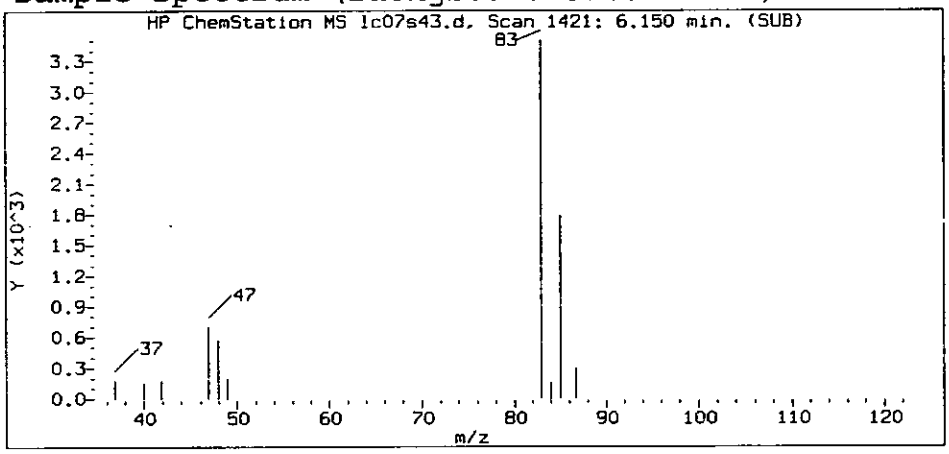
PTLB3 8195.

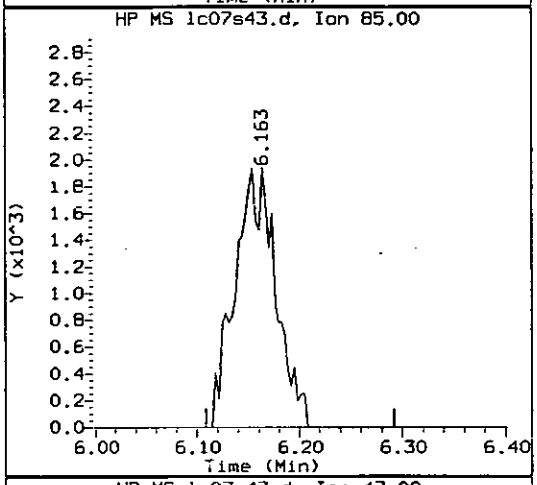
Reference Standard Spectrum for Chloroform



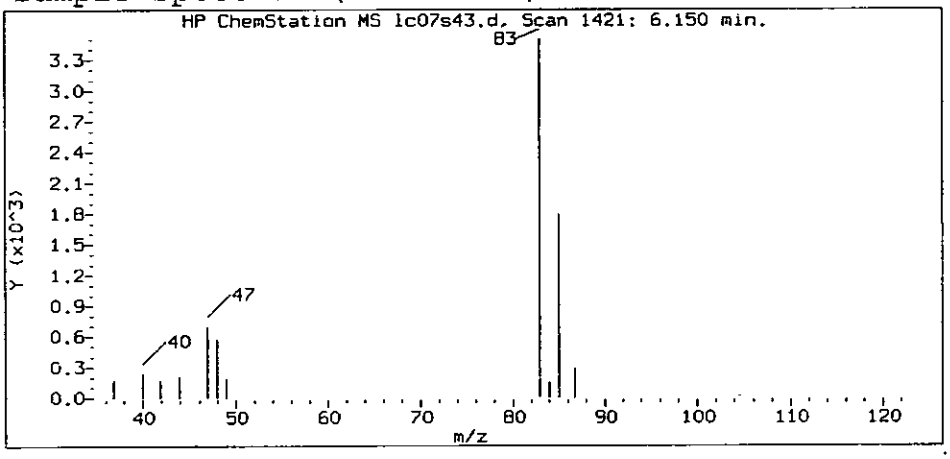


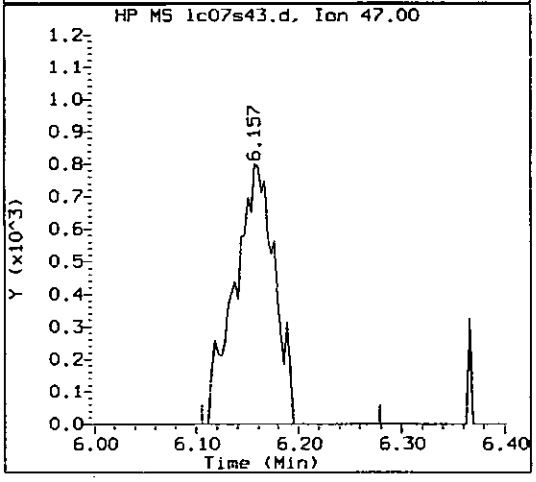
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem/HP09915.i/09oct07b.b/1c07s43.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 01:12 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: MHW
Calibration date and time: 08-OCT-2009 23:37
Date, time and analyst ID of latest file update: 08-Oct-2009 23:47 maz02012

Sample Name: PA20D Lab Sample ID: 5796213

Compound Number	: 53
Compound Name	: Chloroform
Scan Number	: 1421
Retention Time (minutes)	: 6.150
Quant Ion	: 83.0
Area (flag)	: 8570
Concentration (ug/L)	: 1.0084

PTL83 0196

PATB1

Lancaster Laboratories
Quantitation Report GC/MS Volatiles **5796214**

File: /chem/HP09915.i/09oct07b.b/lc07s31.d
Sample: PATB1;5796214;1;0;;;;;;;
Injected At:07-OCT-2009 20:50
Calibration Time: 24-SEP-2009 09:28
Target Method: L8260W.m
Blank Reference: lc07b03.d
Sublist: MHW

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
72) Fluorobenzene	7.301(0.003)	1779	96	1093950(-3)	50.00	
104) Chlorobenzene-d5	10.873(0.000)	2890	117	803482(-4)	50.00	
137) 1,4-Dichlorobenzene-d4	12.767(0.000)	3479	152	444523(-9)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.369(0.000)	113	266121	50.484	101%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.829(0.000)	102	63240	49.628	99%		77 - 113
91) Toluene-d8	(2)	9.372(0.000)	98	1090837	51.970	104%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.883(0.000)	95	386013	50.032	100%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
8) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
19) 1,1-Dichloroethene	(1)				ND	ND			0.80	5.00
21) Acetone	(1)				ND	ND			6.00	20.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
36) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00
44) cis-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
45) 2-Butanone	(1)				ND	ND			3.00	10.00
46) 2,2-Dichloropropane	(1)				ND	ND			1.00	5.00
51) Bromochloromethane	(1)				ND	ND			1.00	5.00
53) Chloroform	(1)				ND	ND			0.80	5.00
57) 1,1,1-Trichloroethane	(1)				ND	ND			0.80	5.00
61) 1,1-Dichloropropene	(1)				ND	ND			1.00	5.00
62) Carbon Tetrachloride	(1)				ND	ND			1.00	5.00
67) Benzene	(1)				ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)				ND	ND			1.00	5.00
76) Trichloroethene	(1)				ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL83 8197

PATB1

Lancaster Laboratories
Quantitation Report GC/MS Volatiles 5796214

File: /chem/HP09915.i/09oct07b.b/lc07s31.d
Sample: PATB1;5796214;1;0;;;;;;;
Injected At:07-OCT-2009 20:50
Calibration Time: 24-SEP-2009 09:28
Target Method: L8260W.m
Blank Reference: lc07b03.d
Sublist: MHW

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
80) Dibromomethane	(1)					ND	ND			1.00	5.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
107) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
108) Ethylbenzene	(2)					ND	ND			0.80	5.00
109) m+p-Xylene	(2)					ND	ND			0.80	5.00
111) o-Xylene	(2)					ND	ND			0.80	5.00
112) Styrene	(2)					ND	ND			1.00	5.00
113) Bromoform	(2)					ND	ND			1.00	5.00
115) Isopropylbenzene	(2)					ND	ND			1.00	5.00
120) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0198

PATB1

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796214

File: /chem/HP09915.i/09oct07b.b/lc07s31.d
Sample: PATB1;5796214;1;0;;;;;;;
Injected At:07-OCT-2009 20:50
Calibration Time: 24-SEP-2009 09:28
Target Method: L8260W.m
Blank Reference: lc07b03.d
Sublist: MHW

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
143) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
147) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
148) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
149) Naphthalene	(3)					ND	ND			1.00	5.00
150) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

Analyst: MS 10/8/09 Date: 10/8/09

Auditor: [signature] Date: 10/09/09

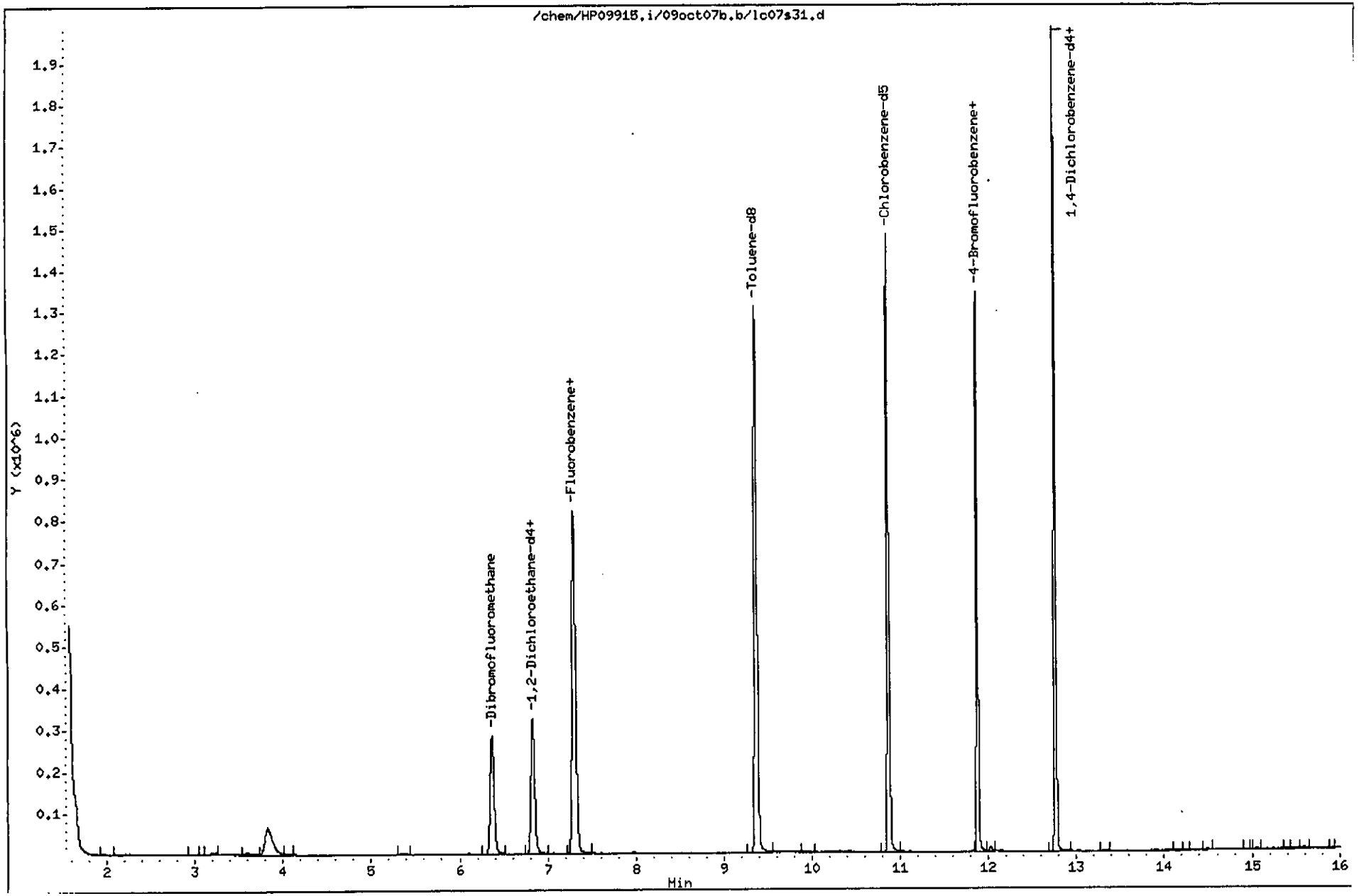
Data File: /chem/HP09915.i/09oct07b.b/lc07s31.d
Date : 07-OCT-2009 20:50
Client ID: PATB1
Sample Info: PATB1;5796214;1;0;;;;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: NPR02223
Column diameter: 0.25

MA/20 10/8/09

PTL03 0208



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct07b.b/lc07s31.d Instrument ID: HP09915.i
Injection date and time: 07-OCT-2009 20:50 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: MHW
Calibration date and time: 24-SEP-2009 09:28
Date, time and analyst ID of latest file update: 08-Oct-2009 23:37 maz02012

Sample Name: PATB1 Lab Sample ID: 5796214

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
72)*Fluorobenzene	(1)	7.301	96	1093950	50.000
104)*Chlorobenzene-d5	(2)	10.873	117	803482	50.000
137)*1,4-Dichlorobenzene-d4	(3)	12.767	152	444523	50.000
54)$Dibromofluoromethane	(1)	6.369	113	266121	50.484
64)$1,2-Dichloroethane-d4	(1)	6.829	102	63240	49.628
91)$Toluene-d8	(2)	9.372	98	1090837	51.970
119)$4-Bromofluorobenzene	(2)	11.883	95	386013	50.032

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Standards Data

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09915 Calibration Date(s): 09/29/09 09/29/09

Heated Purge: (Y/N) Y Calibration Times: 21:39 23:29

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

LAB FILE ID: RRF 4 = ls29i06.d RRF 10= ls29i05.d RRF 20= ls29i04.d
RRF 50= ls29i03.d RRF100= ls29i02.d RRF300= ls29i01.d RRF =

COMPOUND	RRF 4	RRF 10	RRF 20	RRF 50	RRF100	RRF300	RRF	$\overline{RRF}$	% RSD	CAL. METHOD	
Dichlorodifluoromethane	0.3920	0.4189	0.4114	0.4119	0.3844	0.4120		0.4051	3	AVG	
Chloromethane	#0.3773	0.3616	0.3777	0.3644	0.3632	0.3776		0.3703	2	AVG	#
Vinyl Chloride	*0.3365	0.3348	0.3370	0.3406	0.3270	0.3419		0.3363	2	AVG	*
Bromomethane	0.1947	0.1859	0.1808	0.1751	0.1532	0.1232		0.1688	16	2NDDEG	
Chloroethane	0.1774	0.1755	0.1639	0.1569	0.1403	0.1155		0.1549	15	AVG	
Dichlorofluoromethane	0.3573	0.3392	0.3596	0.3412	0.3041	0.3131		0.3358	7	AVG	
Trichlorofluoromethane	0.4236	0.4416	0.4266	0.4260	0.4071	0.4020		0.4212	3	AVG	
Ethyl Ether	0.1886	0.1829	0.1839	0.1874	0.1795	0.1677		0.1817	4	AVG	
Freon 123a	0.2173	0.1973	0.2133	0.2067	0.1823	0.1906		0.2013	7	AVG	
Acrolein	1.9005	2.2625	1.7537	1.6317	1.4695	1.5700		1.7647	16	1STDEG	
1,1-Dichloroethene	*0.1940	0.1880	0.1977	0.1945	0.1824	0.1811		0.1896	4	AVG	*
Freon 113	0.2127	0.2110	0.2179	0.2248	0.2067	0.2063		0.2132	3	AVG	
Acetone	0.1250	0.1202	0.1053	0.1059	0.0937	0.1112		0.1102	10	AVG	
2-Propanol	0.7017	0.8574	0.7678	0.6054	0.5885	0.6932		0.7023	14	AVG	
Methyl Iodide	0.3690	0.4037	0.4207	0.4094	0.3719	0.3776		0.3920	6	AVG	
Carbon Disulfide	0.7549	0.7559	0.7940	0.8204	0.7852	0.8483		0.7931	5	AVG	
Allyl Chloride	0.3886	0.3853	0.3737	0.3915	0.3568	0.4085		0.3841	5	AVG	
Methyl Acetate	0.3098	0.3320	0.3101	0.3179	0.2931	0.3389		0.3170	5	AVG	
Methylene Chloride	0.3174	0.2825	0.2680	0.2540	0.2484	0.2593		0.2716	9	AVG	
t-Butyl Alcohol	1.1430	1.2911	1.0344	0.9032	0.9755	1.1548		1.0837	13	AVG	
Acrylonitrile	0.1589	0.1656	0.1605	0.1613	0.1465	0.1673		0.1600	5	AVG	
trans-1,2-Dichloroethene	0.2326	0.2366	0.2380	0.2412	0.2336	0.2470		0.2382	2	AVG	
Methyl Tertiary-Butyl Ether	0.7968	0.8262	0.8754	0.8367	0.8531	0.8882		0.8461	4	AVG	
n-Hexane	0.3618	0.3703	0.3899	0.4074	0.3782	0.4151		0.3871	5	AVG	
1,2-Dichloroethene (total)	0.2399	0.2442	0.2470	0.2485	0.2431	0.2575		0.2467	2	AVG	
1,1-Dichloroethane	#0.4374	0.4574	0.4616	0.4519	0.4432	0.4696		0.4535	3	AVG	#
di-Isopropyl Ether	0.9100	0.9575	0.9882	0.9592	0.9580	1.0210		0.9657	4	AVG	
2-Chloro-1,3-Butadiene	0.3809	0.3932	0.4064	0.4209	0.4131	0.4506		0.4108	6	AVG	
Ethyl t-Butyl Ether	0.7515	0.8069	0.8622	0.8350	0.8363	0.8675		0.8266	5	AVG	
cis-1,2-Dichloroethene	0.2471	0.2519	0.2559	0.2558	0.2525	0.2679		0.2552	3	AVG	
2-Butanone	0.2181	0.2315	0.2283	0.2267	0.2074	0.2450		0.2262	6	AVG	
2,2-Dichloropropane	0.3219	0.3272	0.3414	0.3566	0.3524	0.3778		0.3462	6	AVG	
Propionitrile	1.6541	1.6958	1.6088	1.4126	1.4810	1.7386		1.5985	8	AVG	
Methacrylonitrile	0.1541	0.1552	0.1618	0.1571	0.1586	0.1665		0.1589	3	AVG	
Bromochloromethane	0.1241	0.1248	0.1194	0.1241	0.1153	0.1261		0.1223	3	AVG	
Tetrahydrofuran	1.1425	1.4629	1.1459	1.1365	1.0566	1.3704		1.2191	13	AVG	
Chloroform	*0.3922	0.4035	0.4149	0.4114	0.4087	0.4348		0.4109	3	AVG	*
1,1,1-Trichloroethane	0.4112	0.3744	0.3931	0.3876	0.3816	0.4180		0.3943	4	AVG	
Cyclohexane	0.4291	0.4321	0.4551	0.4852	0.4613	0.5026		0.4609	6	AVG	
Cyclohexane(mz 84)	0.3399	0.3446	0.3581	0.3804	0.3594	0.3918		0.3624	6	AVG	
Cyclohexane(mz 69)	0.1230	0.1260	0.1298	0.1394	0.1323	0.1442		0.1324	6	AVG	
1,1-Dichloropropene	0.3232	0.3200	0.3339	0.3443	0.3401	0.3733		0.3391	6	AVG	
Carbon Tetrachloride	0.2615	0.2783	0.2954	0.3167	0.3139	0.3520		0.3030	11	AVG	
Isobutyl Alcohol	0.4415	0.4959	0.4334	0.3800	0.4415	0.5201		0.4521	11	AVG	
Benzene	0.9465	0.9745	0.9956	0.9973	0.9931	1.0571		0.9940	4	AVG	
1,2-Dichloroethane	0.3563	0.3653	0.3814	0.3741	0.3842	0.4177		0.3798	6	AVG	
1,2-Dichloroethane(mz 98)	0.0291	0.0309	0.0300	0.0295	0.0300	0.0322		0.0303	4	AVG	
t-Amyl Methyl Ether	0.6866	0.7397	0.7950	0.7733	0.7866	0.8322		0.7689	7	AVG	
n-Heptane	0.4064	0.3967	0.4195	0.4318	0.4220	0.4628		0.4232	5	AVG	
n-Butanol	0.3471	0.3656	0.3480	0.3162	0.3623	0.4061		0.3576	8	AVG	
Trichloroethene	0.2386	0.2377	0.2460	0.2500	0.2442	0.2585		0.2458	3	AVG	
Methylcyclohexane	0.3666	0.3721	0.3676	0.4042	0.3605	0.4278		0.3832	7	AVG	

Minimum RRF for SPCC(#) = 0.10
(0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %RSD for CCC(*) = 30%

PTL03 0203

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09915 Calibration Date(s): 09/29/09 09/29/09

Heated Purge: (Y/N) Y Calibration Times: 21:39 23:29

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

LAB FILE ID: RRF 4 = ls29i06.d RRF 10= ls29i05.d RRF 20= ls29i04.d
RRF 50= ls29i03.d RRF100= ls29i02.d RRF300= ls29i01.d RRF =

COMPOUND	RRF 4	RRF 10	RRF 20	RRF 50	RRF100	RRF300	RRF	$\overline{RRF}$	% RSD	CAL. METHOD	
Methylcyclohexane(mz98)	0.1684	0.1701	0.1641	0.1800	0.1610	0.1901		0.1723	6	AVG	
1,2-Dichloropropane	*0.2599	0.2662	0.2805	0.2806	0.2792	0.2981		0.2774	5	AVG	*
Dibromomethane	0.1645	0.1647	0.1746	0.1687	0.1721	0.1863		0.1718	5	AVG	
Methyl Methacrylate	0.2134	0.2382	0.2607	0.2536	0.2624	0.2876		0.2527	10	AVG	
1,4-Dioxane	0.1011	0.0892	0.0929	0.0881	0.0965	0.1005		0.0947	6	AVG	
Bromodichloromethane	0.2679	0.2798	0.3093	0.3112	0.3200	0.3532		0.3069	10	AVG	
2-Nitropropane	0.0869	0.0947	0.1040	0.1102	0.1038	0.1260		0.1043	13	AVG	
2-Chloroethyl Vinyl Ether	0.1815	0.2033	0.2042	0.2189	0.2246	0.2386		0.2119	9	AVG	
cis-1,3-Dichloropropene	0.3566	0.3649	0.4003	0.4034	0.4285	0.4618		0.4026	10	AVG	
4-Methyl-2-Pentanone	0.4124	0.4672	0.4935	0.4456	0.4353	0.4997		0.4590	7	AVG	
Toluene	*0.8187	0.7915	0.8254	0.8125	0.8107	0.8449		0.8173	2	AVG	*
trans-1,3-Dichloropropene	0.4580	0.5101	0.5676	0.5525	0.5775	0.6209		0.5478	10	AVG	
Ethyl Methacrylate	0.4753	0.5274	0.6011	0.5697	0.5965	0.6293		0.5665	10	AVG	
1,1,2-Trichloroethane	0.3027	0.3113	0.3361	0.3114	0.3174	0.3344		0.3189	4	AVG	
Tetrachloroethene	0.3396	0.3423	0.3533	0.3656	0.3560	0.3742		0.3552	4	AVG	
1,3-Dichloropropane	0.5368	0.5694	0.6171	0.5833	0.6032	0.6334		0.5905	6	AVG	
2-Hexanone	0.4206	0.5416	0.5394	0.4891	0.4598	0.5165		0.4945	10	AVG	
Dibromochloromethane	0.2801	0.3168	0.3630	0.3579	0.3776	0.4162		0.3519	14	AVG	
1,2-Dibromoethane	0.3151	0.3413	0.3721	0.3557	0.3647	0.3909		0.3566	7	AVG	
Chlorobenzene	#0.8838	0.9252	0.9594	0.9344	0.9297	0.9855		0.9363	4	AVG	#
1,1,1,2-Tetrachloroethane	0.2774	0.3017	0.3326	0.3313	0.3253	0.3697		0.3230	10	AVG	
Ethylbenzene	*1.4970	1.5457	1.6222	1.6337	1.5861	1.7512		1.6060	5	AVG	*
m+p-Xylene	0.5736	0.6042	0.6418	0.6309	0.6145	0.6664		0.6219	5	AVG	
Xylene (Total)	0.5711	0.5995	0.6312	0.6237	0.6042	0.6209		0.6084	4	AVG	
o-Xylene	0.5686	0.5949	0.6206	0.6164	0.5939	0.5754		0.5950	4	AVG	
Styrene	0.8651	0.9681	1.0472	1.0278	1.0046	0.9733		0.9810	7	AVG	
Bromoform	#0.2031	0.2393	0.2710	0.2695	0.2809	0.3227		0.2644	15	AVG	#
Isopropylbenzene	1.4329	1.5310	1.6001	1.5931	1.5417	1.6383		1.5562	5	AVG	
Cyclohexanone	0.3512	0.3008	0.3318	0.3282	0.3639	0.4115		0.3479	11	AVG	
1,1,2,2-Tetrachloroethane	#0.8487	0.9505	0.9866	0.9228	0.9794	0.9889		0.9462	6	AVG	#
Bromobenzene	0.6779	0.7331	0.7391	0.7195	0.7289	0.7186		0.7195	3	AVG	
1,2,3-Trichloropropane	0.2717	0.2853	0.3024	0.2776	0.2980	0.2813		0.2860	4	AVG	
trans-1,4-Dichloro-2-Butene	0.3083	0.3338	0.3396	0.3301	0.3665	0.3638		0.3403	6	AVG	
n-Propylbenzene	0.7186	0.7561	0.7979	0.7923	0.7988	0.8182		0.7803	5	AVG	
2-Chlorotoluene	0.6408	0.6565	0.6886	0.6781	0.6786	0.6979		0.6734	3	AVG	
1,3,5-Trimethylbenzene	1.0620	1.1282	1.1727	1.1793	1.1882	1.1610		1.1486	4	AVG	
4-Chlorotoluene	0.6795	0.6994	0.7194	0.7075	0.7106	0.6996		0.7026	2	AVG	
tert-Butylbenzene	0.5040	0.5164	0.5384	0.5410	0.5325	0.5236		0.5260	3	AVG	
Pentachloroethane	0.4238	0.4465	0.4514	0.4786	0.4518	0.4691		0.4535	4	AVG	
1,2,4-Trimethylbenzene	2.2526	2.4041	2.5004	2.4886	2.5364	2.4586		2.4401	4	AVG	
sec-Butylbenzene	0.5514	0.5836	0.6088	0.6189	0.6151	0.6239		0.6003	5	AVG	
1,3-Dichlorobenzene	1.2937	1.3645	1.3888	1.3592	1.3801	1.3221		1.3514	3	AVG	
p-Isopropyltoluene	0.6385	0.6684	0.7018	0.7145	0.7160	0.6790		0.6864	4	AVG	
1,4-Dichlorobenzene	1.3759	1.4422	1.4560	1.4217	1.4465	1.4469		1.4315	2	AVG	
1,2,3-Trimethylbenzene	1.0957	1.1250	1.0824	1.1358	1.0473	1.1084		1.0991	3	AVG	
Benzyl Chloride	1.4661	1.7411	1.9001	1.8996	2.0810	2.2199		1.8846	14	AVG	
1,3-Diethylbenzene	1.4839	1.5783	1.5166	1.6012	1.4664	1.5566		1.5338	3	AVG	
1,4-Diethylbenzene	1.5187	1.5954	1.5171	1.5893	1.4590	1.5100		1.5316	3	AVG	
n-Butylbenzene	1.2033	1.2552	1.2920	1.2971	1.2860	1.2305		1.2607	3	AVG	
1,2-Dichlorobenzene	1.2945	1.3497	1.3484	1.3212	1.3380	1.3153		1.3278	2	AVG	
1,2-Diethylbenzene	1.2390	1.3031	1.2640	1.3227	1.2064	1.2742		1.2682	3	AVG	
1,2-Dibromo-3-Chloropropane	0.1818	0.1953	0.2104	0.2147	0.2349	0.2562		0.2155	12	AVG	

Minimum RRF for SPCC(#) = 0.10
(0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %RSD for CCC(*) = 30%

PTL03 4284

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09915 Calibration Date(s): 09/29/09 09/29/09

Heated Purge: (Y/N) Y Calibration Times: 21:39 23:29

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

LAB FILE ID: RRF 4 = ls29i06.d RRF 10= ls29i05.d RRF 20= ls29i04.d
RRF 50= ls29i03.d RRF100= ls29i02.d RRF300= ls29i01.d RRF =

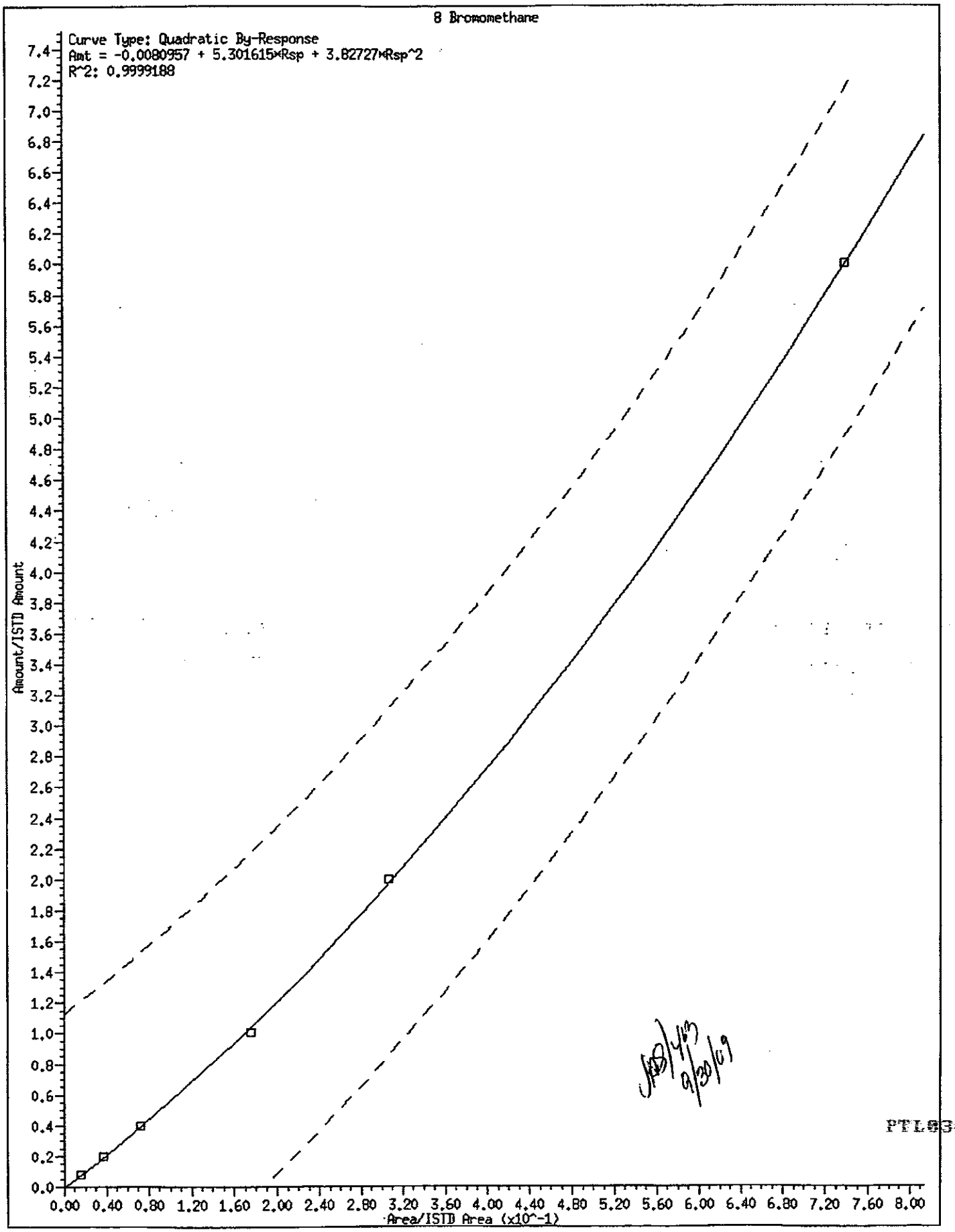
COMPOUND	RRF 4	RRF 10	RRF 20	RRF 50	RRF100	RRF300	RRF	$\overline{RRF}$	% RSD	CAL. METHOD
1,2,4-Trichlorobenzene	1.0053	1.0537	1.0752	1.0458	1.0603	1.0258		1.0443	2	AVG
Hexachlorobutadiene	0.5016	0.4900	0.5081	0.4974	0.5036	0.4848		0.4976	2	AVG
Naphthalene	2.9527	3.2373	3.3807	3.3099	3.4774	3.3641		3.2870	6	AVG
1,2,3-Trichlorobenzene	1.0102	1.0459	1.0581	1.0303	1.0397	0.9979		1.0303	2	AVG
2-Methylnaphthalene	1.8896	2.0354	2.0516	2.1611	1.9544	2.0047		2.0161	5	AVG
Dibromofluoromethane	0.2342	0.2361	0.2370	0.2388	0.2485	0.2510		0.2409	3	AVG
Dibromofluoromethane(mz111)	0.2361	0.2398	0.2426	0.2441	0.2541	0.2580		0.2458	3	AVG
1,2-Dichloroethane-d4	0.0611	0.0554	0.0571	0.0572	0.0593	0.0594		0.0582	4	AVG
1,2-Dichloroethane-d4(mz65)	0.3131	0.3029	0.3168	0.3107	0.3244	0.3327		0.3167	3	AVG
1,2-Dichloroethane-d4(mz104)	0.0366	0.0377	0.0364	0.0368	0.0377	0.0380		0.0372	2	AVG
Toluene-d8	1.3250	1.2923	1.3016	1.2833	1.3253	1.3095		1.3062	1	AVG
Toluene-d8(mz100)	0.8464	0.8279	0.8462	0.8284	0.8555	0.8453		0.8416	1	AVG
4-Bromofluorobenzene	0.4721	0.4774	0.4830	0.4747	0.4852	0.4883		0.4801	1	AVG
4-Bromofluorobenzene(mz174)	0.4041	0.4043	0.4157	0.4046	0.4114	0.4037		0.4073	1	AVG

Average %RSD 6

Minimum RRF for SPCC(#) = 0.10
(0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %RSD for CCC(*) = 30%

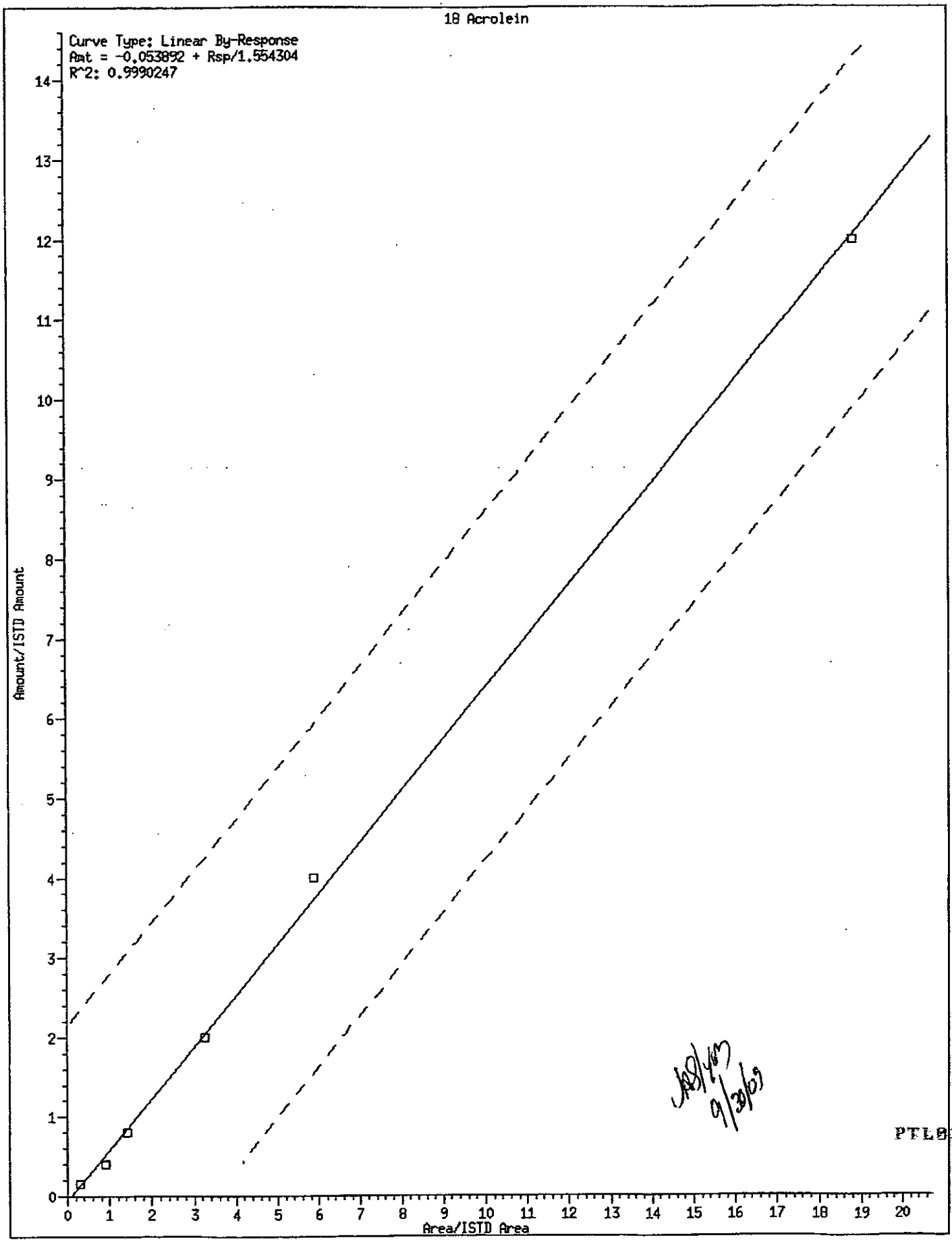
PTL03 0205

FORM VI VOA



JAB/463
9/30/09

PTL03 0206



9/30/09

PTL03 0287

Internal Standard Area and Retention Time Summary

Initial Calibration Standards:

/chem/HP09915.i/09sep29c.b/ls29i01.d VSTD300
/chem/HP09915.i/09sep29c.b/ls29i02.d VSTD100
/chem/HP09915.i/09sep29c.b/ls29i03.d VSTD050
/chem/HP09915.i/09sep29c.b/ls29i04.d VSTD020
/chem/HP09915.i/09sep29c.b/ls29i05.d VSTD010
/chem/HP09915.i/09sep29c.b/ls29i06.d VSTD004

Area Summary

File ID:

Internal Standard Name	ls29i01.d	ls29i02.d	ls29i03.d	ls29i04.d	ls29i05.d	ls29i06.d	Avg. Area	%RSD	In Spec
t-Butyl Alcohol-d10	243919	274058	277592	249445	213256	227028	247550	10	Yes
Fluorobenzene	1256568	1284611	1269794	1235127	1231253	1203488	1246807	2	Yes
Chlorobenzene-d5	939889	942747	897271	870794	861680	845735	893019	5	Yes
1,4-Dichlorobenzene-d4	534815	523935	516484	499803	491830	486271	508856	4	Yes

%RSD of internal standard area is flagged out of spec if greater than 30.

RT Summary

File ID:

Internal Standard Name	ls29i01.d	ls29i02.d	ls29i03.d	ls29i04.d	ls29i05.d	ls29i06.d	Avg. RT
t-Butyl Alcohol-d10	3.829	3.832	3.838	3.829	3.842	3.826	3.833
Fluorobenzene	7.308	7.308	7.314	7.308	7.314	7.308	7.310
Chlorobenzene-d5	10.877	10.874	10.874	10.874	10.874	10.874	10.874
1,4-Dichlorobenzene-d4	12.771	12.771	12.767	12.767	12.767	12.767	12.768

* indicates the retention time is greater than 30 seconds from the average RT.

Report generated on 09/30/2009 at 01:07.

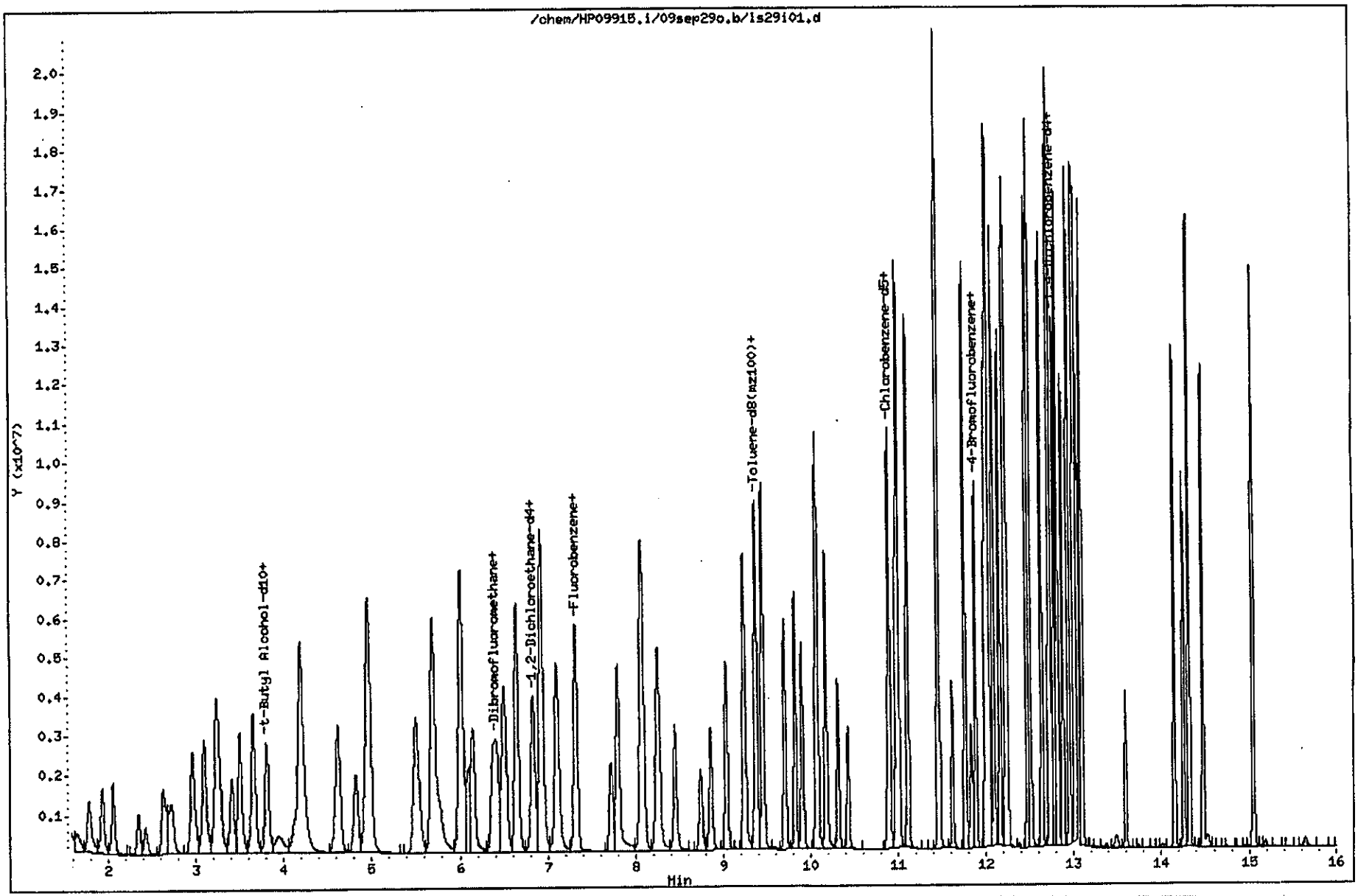
Data File: /chem/HP09915.i/09sep29o.b/ls29i01.d
Date : 29-SEP-2009 21:39
Client ID: VSTD300
Sample Info: VSTD300;VSTD300;1;1;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: KDP02245
Column diameter: 0.25

KDP 2245
9/29/09

PTI03 0209



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29i01.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 21:39 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:08 kdp02245

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.781	85	3106559	305.140
3) Chloromethane	(1)	1.935	50	2847023	305.934
4) Vinyl Chloride	(1)	2.057	62	2578019	305.023
8) Bromomethane	(1)	2.346	94	928861	300.110
9) Chloroethane	(1)	2.424	64	870952	223.723
10) Dichlorofluoromethane	(1)	2.623	67	2360855	279.780
11) Trichlorofluoromethane	(1)	2.719	101	3031108M	286.370
15) Ethyl Ether	(1)	2.954	59	1264606	276.955
16) Freon 123a	(1)	2.970	67	1437075MA	285.943
18) Acrolein	(4)	3.092	56	4595494	3016.862
19) 1,1-Dichloroethene	(1)	3.224	96	1365728	286.583
20) Freon 113	(1)	3.256	101	1555059	290.162
21) Acetone	(1)	3.260	43	1676489	605.261
22) 2-Propanol	(4)	3.411	45	1014541	1480.579
23) Methyl Iodide	(1)	3.404	142	2847012	288.956
24) Carbon Disulfide	(1)	3.501	76	6395830	320.886
27) Allyl Chloride	(1)	3.645	41	3079691	319.073
28) Methyl Acetate	(1)	3.662	43	2555075	320.752
29) Methylene Chloride	(1)	3.803	84	1955142	286.426
30)*t-Butyl Alcohol-d10	(4)	3.829	65	243919	250.000
31) t-Butyl Alcohol	(4)	3.948	59	1690002	1598.398
32) Acrylonitrile	(1)	4.121	53	1261526	313.662
33) trans-1,2-Dichloroethene	(1)	4.186	96	1862352	311.139
34) Methyl Tertiary Butyl Ether	(1)	4.199	73	6696234	314.932
35) n-Hexane	(1)	4.617	57	3129534	320.876
42) 1,2-Dichloroethene (total)	(1)		96	3882377	626.111
36) 1,1-Dichloroethane	(1)	4.819	63	3540431	310.635
40) di-Isopropyl Ether	(1)	4.954	45	7697979	317.200
41) 2-Chloro-1,3-Butadiene	(1)	4.964	53	3396980	329.005
43) Ethyl t-Butyl Ether	(1)	5.501	59	6540584	314.867
44) cis-1,2-Dichloroethene	(1)	5.687	96	2020025	314.972
45) 2-Butanone	(1)	5.706	43	3694225	649.989
46) 2,2-Dichloropropane	(1)	5.700	77	2848537	327.366
47) Propionitrile	(4)	5.777	54	2544514	1631.520

M = Compound was manually integrated.
A = User selected an alternate hit.
* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29i01.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 21:39 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:08 kdp02245

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
50) Methacrylonitrile	(1)	6.009	67	3138240	785.908
51) Bromochloromethane	(1)	6.028	128	951006	309.399
52) Tetrahydrofuran	(4)	6.096	71	802230	674.445
53) Chloroform	(1)	6.150	83	3277873	317.418
57) 1,1,1-Trichloroethane	(1)	6.417	97	3151495	318.007
60) Cyclohexane	(1)	6.504	56	3789198	327.127
59) Cyclohexane (mz 84)	(1)	6.504	84	2953896	324.366
58) Cyclohexane (mz 69)	(1)	6.501	69	1086889	326.565
61) 1,1-Dichloropropene	(1)	6.645	75	2814320	330.217
62) Carbon Tetrachloride	(1)	6.652	117	2653611	348.514
63) Isobutyl Alcohol	(4)	6.825	41	1902804	4314.018
67) Benzene	(1)	6.925	78	7970206	319.053
68) 1,2-Dichloroethane	(1)	6.941	62	3149527	329.934
69) 1,2-Dichloroethane (mz 98)	(1)	6.941	98	242814	319.065
71) t-Amyl Methyl Ether	(1)	7.105	73	6274632	324.711
72)*Fluorobenzene	(1)	7.308	96	1256568	50.000
74) n-Heptane	(1)	7.324	43	3489106	328.051
75) n-Butanol	(4)	7.722	56	2971837	8518.615
76) Trichloroethene	(1)	7.800	95	1949153	315.479
77) Methylcyclohexane	(1)	8.067	83	3225683	334.987
78) Methylcyclohexane (mz98)	(1)	8.067	98	1432966	330.995
79) 1,2-Dichloropropane	(1)	8.086	63	2247835	322.439
80) Dibromomethane	(1)	8.237	93	1404911	325.354
81) Methyl Methacrylate	(1)	8.266	69	2168712	341.542
82) 1,4-Dioxane	(4)	8.266	88	367683	3979.118
84) Bromodichloromethane	(1)	8.452	83	2662642	345.221
85) 2-Nitropropane	(1)	8.742	41	1899449	724.770
86) 2-Chloroethyl Vinyl Ether	(1)	8.857	63	1799215	337.061
87) cis-1,3-Dichloropropene	(1)	9.038	75	3481835	344.159
89) 4-Methyl-2-Pentanone	(1)	9.243	43	7535362	653.296
93) Toluene	(2)	9.456	92	4764447	310.129
94) trans-1,3-Dichloropropene	(2)	9.706	75	3501723	340.061
95) Ethyl Methacrylate	(2)	9.825	69	3548655	333.213
96) 1,1,2-Trichloroethane	(2)	9.906	97	1885554	314.551

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29i01.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 21:39 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:08 kdp02245

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
97) Tetrachloroethene	(2)	10.066	166	2109976	316.052
98) 1,3-Dichloropropane	(2)	10.083	76	3571809	321.767
100) 2-Hexanone	(2)	10.176	43	5825349	626.692
102) Dibromochloromethane	(2)	10.314	129	2347345	354.808
103) 1,2-Dibromoethane	(2)	10.427	107	2204566	328.859
104)*Chlorobenzene-d5	(2)	10.877	117	939889	50.000
105) Chlorobenzene	(2)	10.902	112	5557599	315.757
107) 1,1,1,2-Tetrachloroethane	(2)	10.976	131	2084630	343.349
108) Ethylbenzene	(2)	11.005	91	9875456	327.120
109) m+p-Xylene	(2)	11.111	106	3758055	321.464
110) Xylene (Total)	(2)		106	7003179	611.614
111) o-Xylene	(2)	11.452	106	3245124	290.150
112) Styrene	(2)	11.465	104	5488822	297.643
113) Bromoform	(2)	11.616	173	1819891	366.108
115) Isopropylbenzene	(2)	11.761	105	9238996	315.833
117) Cyclohexanone	(4)	11.835	55	1505675 A	4435.637
120) 1,1,2,2-Tetrachloroethane	(3)	11.989	83	3173383	310.109
122) Bromobenzene	(3)	12.008	156	2305810	299.599
123) 1,2,3-Trichloropropane	(3)	12.025	110	902673	295.039
124) trans-1,4-Dichloro-2-Butene	(3)	12.037	53	2918623	801.716
125) n-Propylbenzene	(3)	12.092	120	2625580	314.570
126) 2-Chlorotoluene	(3)	12.163	126	2239448	310.904
127) 1,3,5-Trimethylbenzene	(3)	12.221	120	3725614	303.251
128) 4-Chlorotoluene	(3)	12.243	126	2244941	298.702
130) tert-Butylbenzene	(3)	12.475	134	1680070	298.624
131) Pentachloroethane	(3)	12.491	167	1505186	310.286
132) 1,2,4-Trimethylbenzene	(3)	12.507	105	7889377	302.269
134) sec-Butylbenzene	(3)	12.639	134	2002054	311.815
135) 1,3-Dichlorobenzene	(3)	12.722	146	4242408	293.490
136) p-Isopropyltoluene	(3)	12.738	134	2178758	296.771
137)*1,4-Dichlorobenzene-d4	(3)	12.771	152	534815	50.000
138) 1,4-Dichlorobenzene	(3)	12.787	146	4642964	303.221
139) 1,2,3-Trimethylbenzene	(3)	12.822	120	3556659	302.532
140) Benzyl Chloride	(3)	12.880	91	7123453	353.375

A = User selected an alternate hit.
* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29i01.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 21:39 Analyst ID: KDP02245

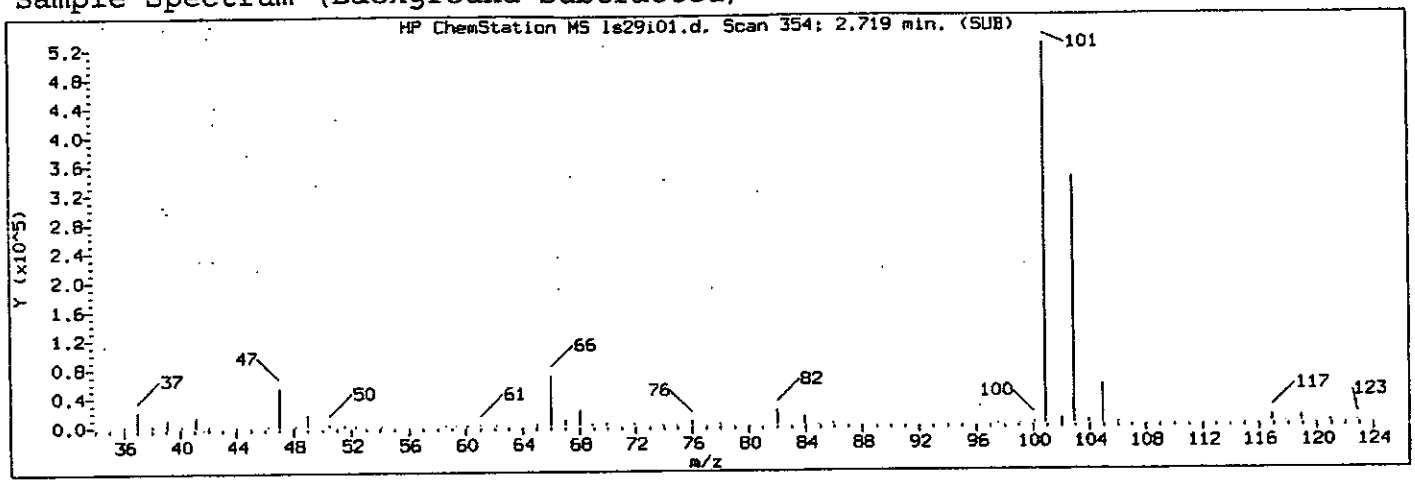
Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:08 kdp02245

Sample Name: VSTD300 Lab Sample ID: VSTD300

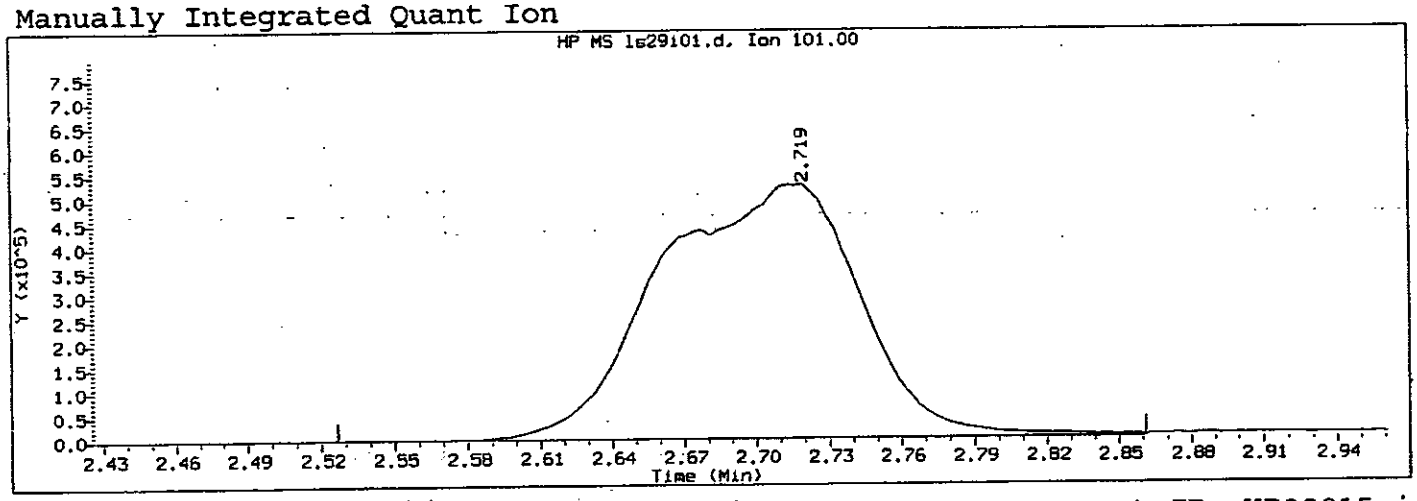
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
141) 1,3-Diethylbenzene	(3)	12.951	119	4994961	304.453
142) 1,4-Diethylbenzene	(3)	13.012	119	4845367	295.769
143) n-Butylbenzene	(3)	13.031	92	3948620	292.820
144) 1,2-Dichlorobenzene	(3)	13.060	146	4220530	297.157
145) 1,2-Diethylbenzene	(3)	13.098	119	4088865	301.419
146) 1,2-Dibromo-3-Chloropropane	(3)	13.594	75	822066	356.564
147) 1,2,4-Trichlorobenzene	(3)	14.153	180	3291729	294.677
148) Hexachlorobutadiene	(3)	14.259	225	1555772	292.307
149) Naphthalene	(3)	14.323	128	10795152	307.039
150) 1,2,3-Trichlorobenzene	(3)	14.478	180	3202012	290.541
152) 2-Methylnaphthalene	(3)	15.053	142	6432832	298.297
54) $Dibromofluoromethane	(1)	6.372	113	1892769	312.596
55) $Dibromofluoromethane (mz111)	(1)	6.372	111	1945343	314.932
64) $1,2-Dichloroethane-d4	(1)	6.835	102	447897	306.004
65) $1,2-Dichloroethane-d4 (mz65)	(1)	6.835	65	2508058	315.067
66) $1,2-Dichloroethane-d4 (mz104)	(1)	6.838	104	286324	306.330
91) $Toluene-d8	(2)	9.378	98	7384763	300.766
90) $Toluene-d8 (mz100)	(2)	9.378	100	4766863	301.313
119) $4-Bromofluorobenzene	(2)	11.883	95	2753920	305.139
118) $4-Bromofluorobenzene (mz174)	(2)	11.883	174	2276378	297.330

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i01.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 21:39 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 22:25
Date, time and analyst ID of latest file update: 30-Sep-2009 17:08 kdp02245

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number	: 11
Compound Name	: Trichlorofluoromethane
Scan Number	: 354
Retention Time (minutes)	: 2.719
Quant Ion	: 101
Area (flag)	: 3031108 M
Concentration (ug/L)	: 286.3699
Integration start scan	: 293 Integration stop scan: 397
Y at integration start	: 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

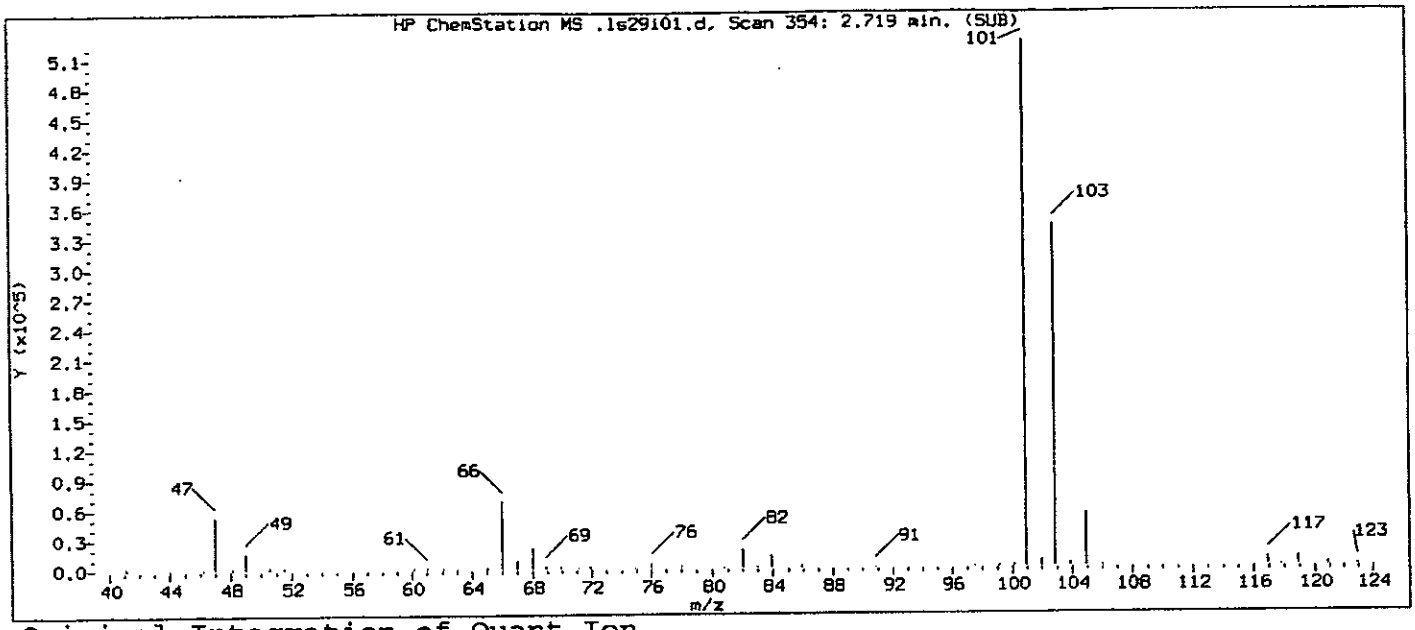
Analyst responsible for change: KDP 0215 9/30/09

GC/MS audit/management approval: [signature] 9-30-09

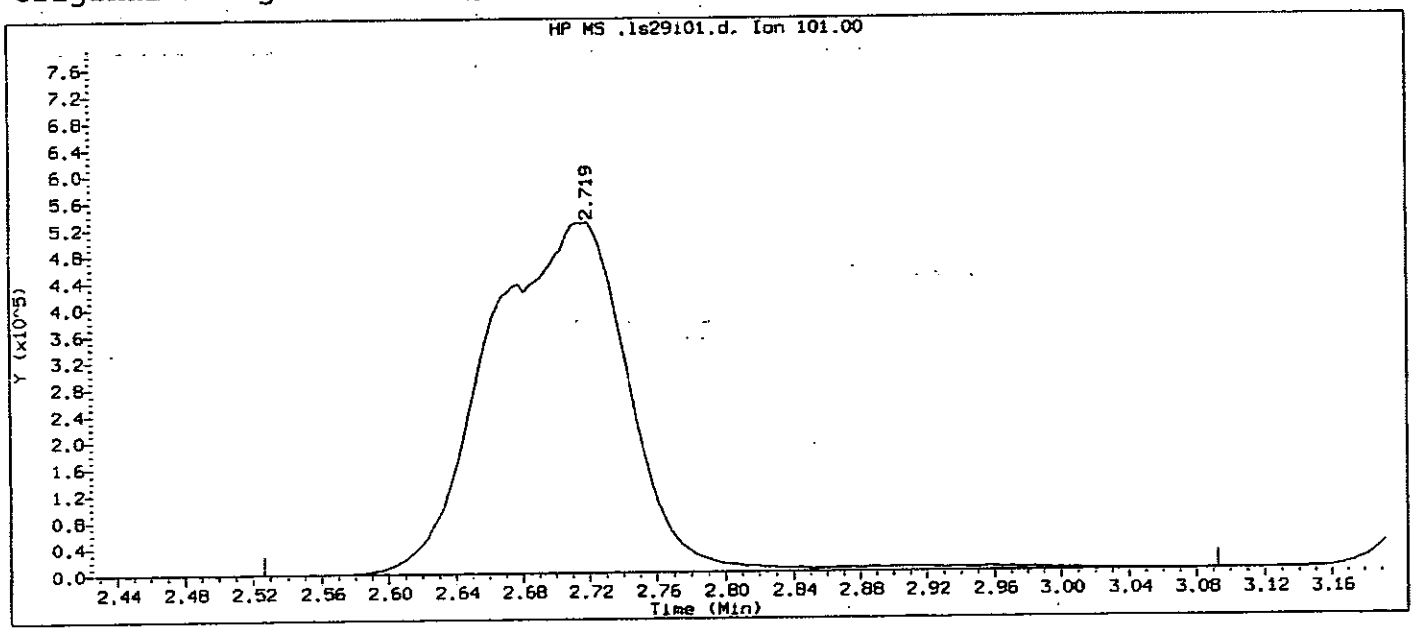
PTL83 0214

Manual Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i01.d, generated on 09/30/2009 at 17:08

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i01.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 21:39 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:58
Date, time and analyst ID of latest file update: 29-Sep-2009 21:58 Automation

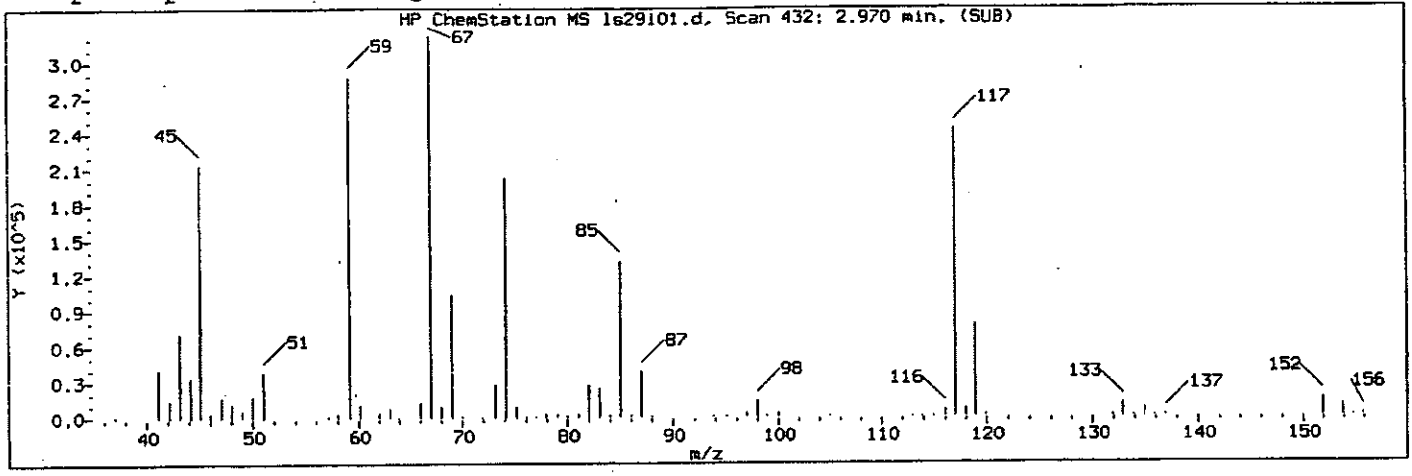
Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number	:	11
Compound Name	:	Trichlorofluoromethane
Scan Number	:	354
Retention Time (minutes)	:	2.719
Quant Ion	:	101
Area	:	3081984
Concentration (ug/L)	:	227.1252
Integration start scan	:	293 Integration stop scan: 469
Y at integration start	:	0 Y at integration end: 0

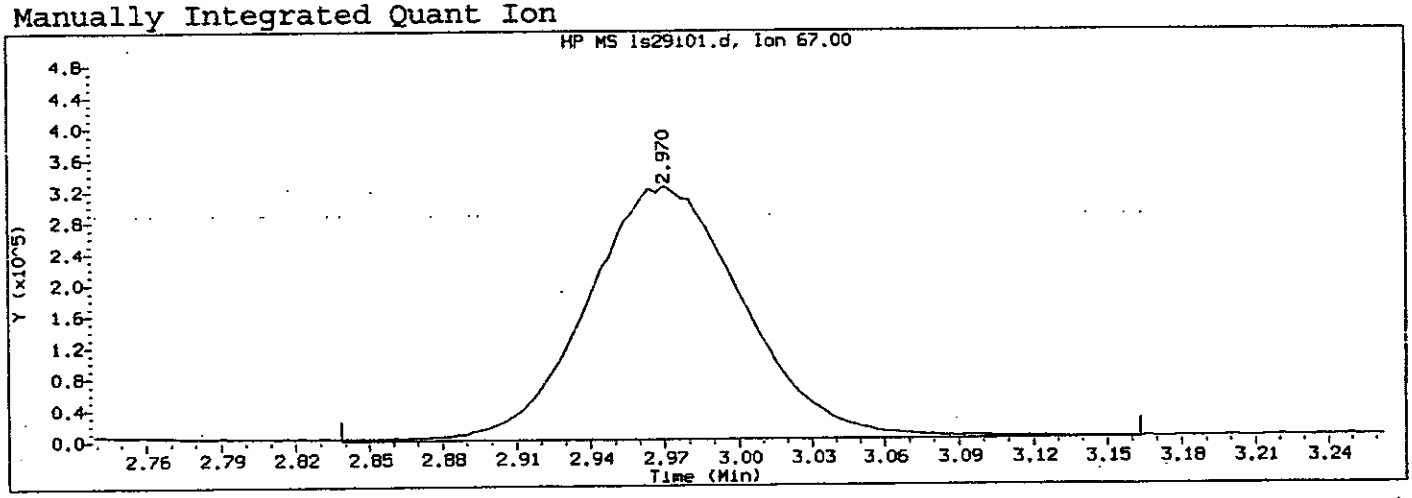
PTL03 0215

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i01.d, generated on 09/30/2009 at 17:08

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i01.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 21:39 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 22:25
Date, time and analyst ID of latest file update: 30-Sep-2009 17:08 kdp02245

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number	: 16
Compound Name	: Freon 123a
Scan Number	: 432
Retention Time (minutes)	: 2.970
Quant Ion	: 67
Area (flag)	: 1437075AM
Concentration (ug/L)	: 285.9429
Integration start scan	: 390 Integration stop scan: 491
Y at integration start	: 0 Y at integration end: 0

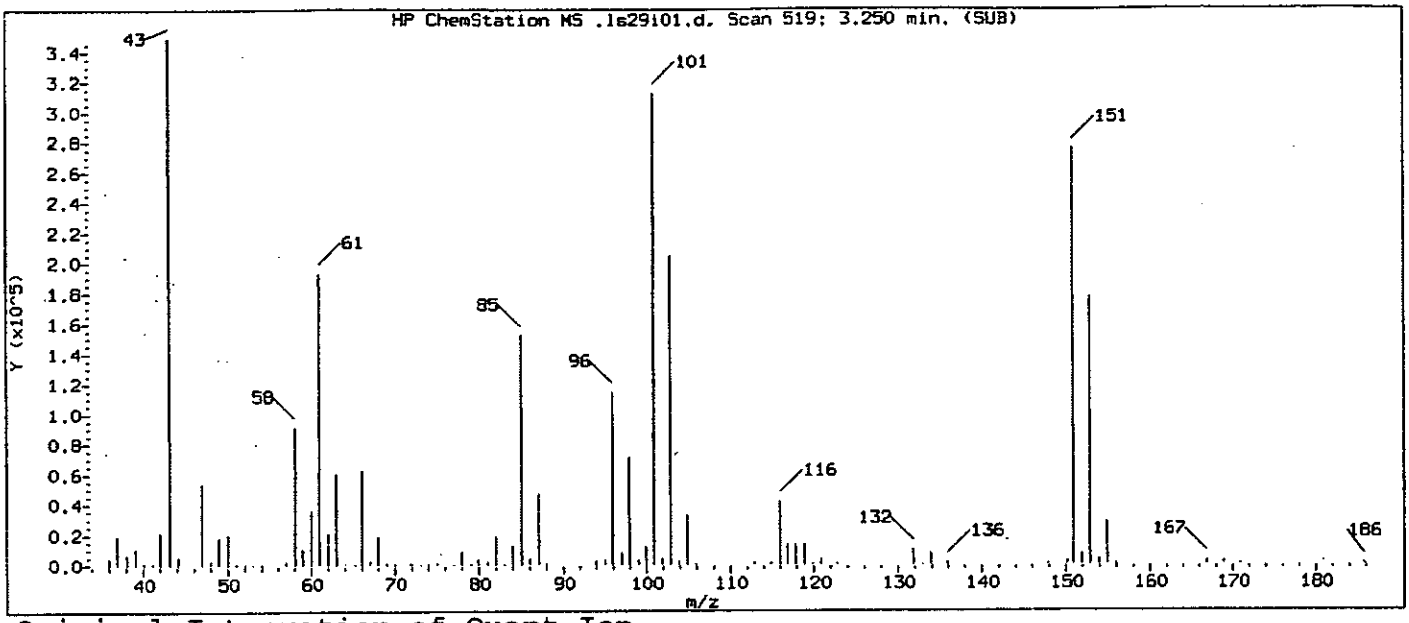
Reason for manual integration (circle one): missed peak (3) ~~improper integration~~

Analyst responsible for change: KDP 9245 9/30/09

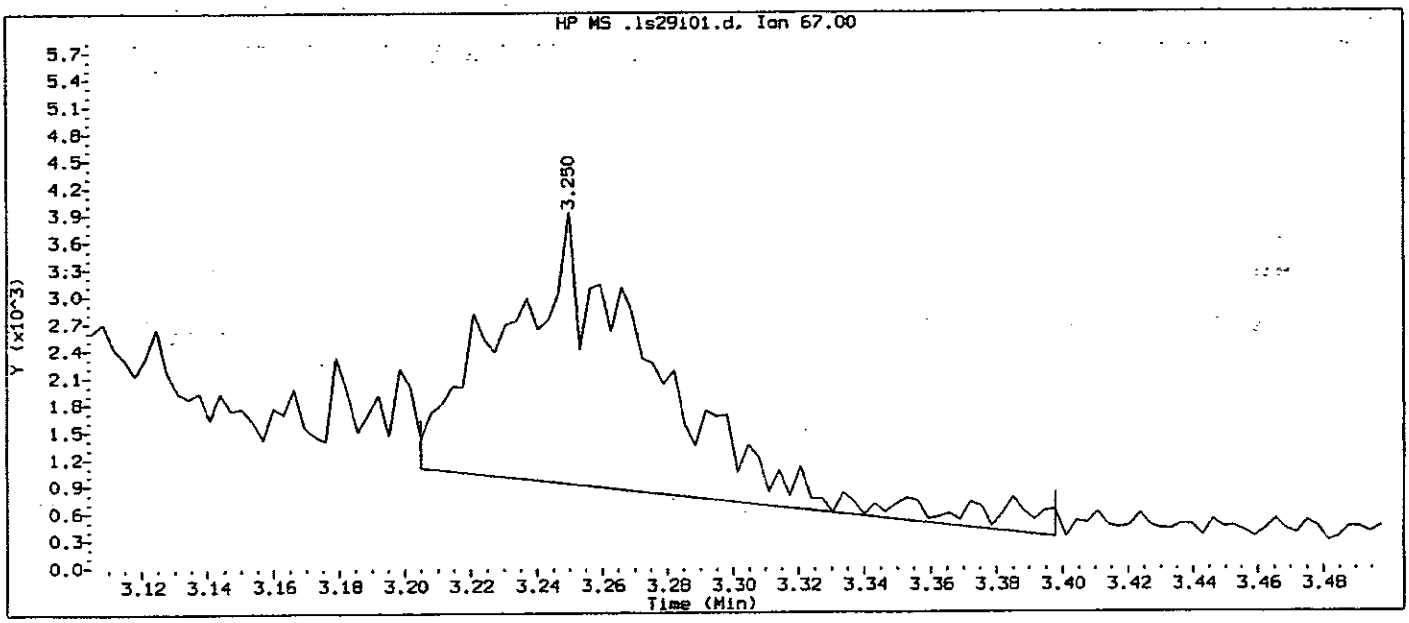
GC/MS audit/management approval: (3) 9-30-09 PTL 9216

Manual Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i01.d, generated on 09/30/2009 at 17:08

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i01.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 21:39 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:58
Date, time and analyst ID of latest file update: 29-Sep-2009 21:58 Automation

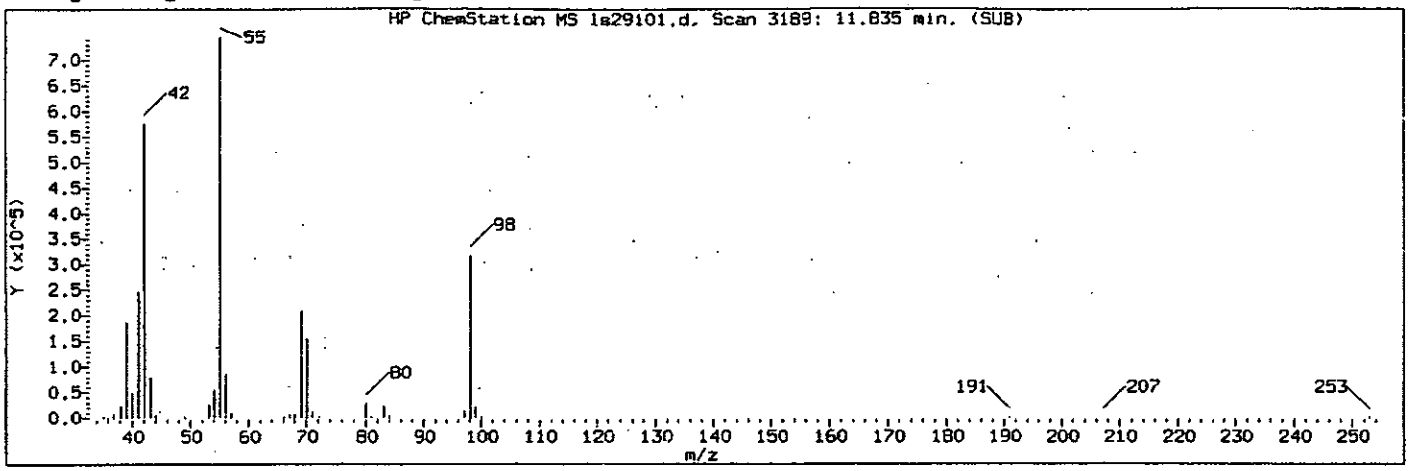
Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number	: 16		
Compound Name	: Freon 123a		
Scan Number	: 519		
Retention Time (minutes)	: 3.250		
Quant Ion	: 67		
Area	: 9696		
Concentration (ug/L)	: 1.2888		
Integration start scan	: 504	Integration stop scan:	564
Y at integration start	: 1095	Y at integration end:	316

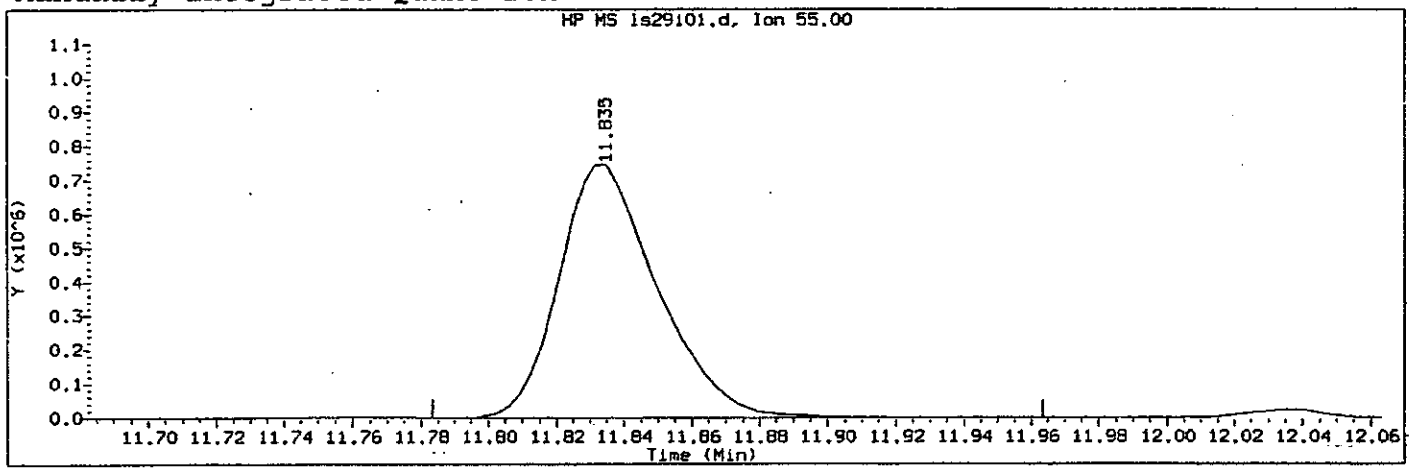
PTL83 0217

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i01.d, generated on 09/30/2009 at 17:08

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i01.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 21:39 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 22:25
Date, time and analyst ID of latest file update: 30-Sep-2009 00:35 sas00403

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number : 117
Compound Name : Cyclohexanone
Scan Number : 3189
Retention Time (minutes): 11.835
Quant Ion : 55
Area (flag) : 1505675A
Concentration (ug/L) : 4435.6372
Integration start scan : 3172 Integration stop scan: 3228
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

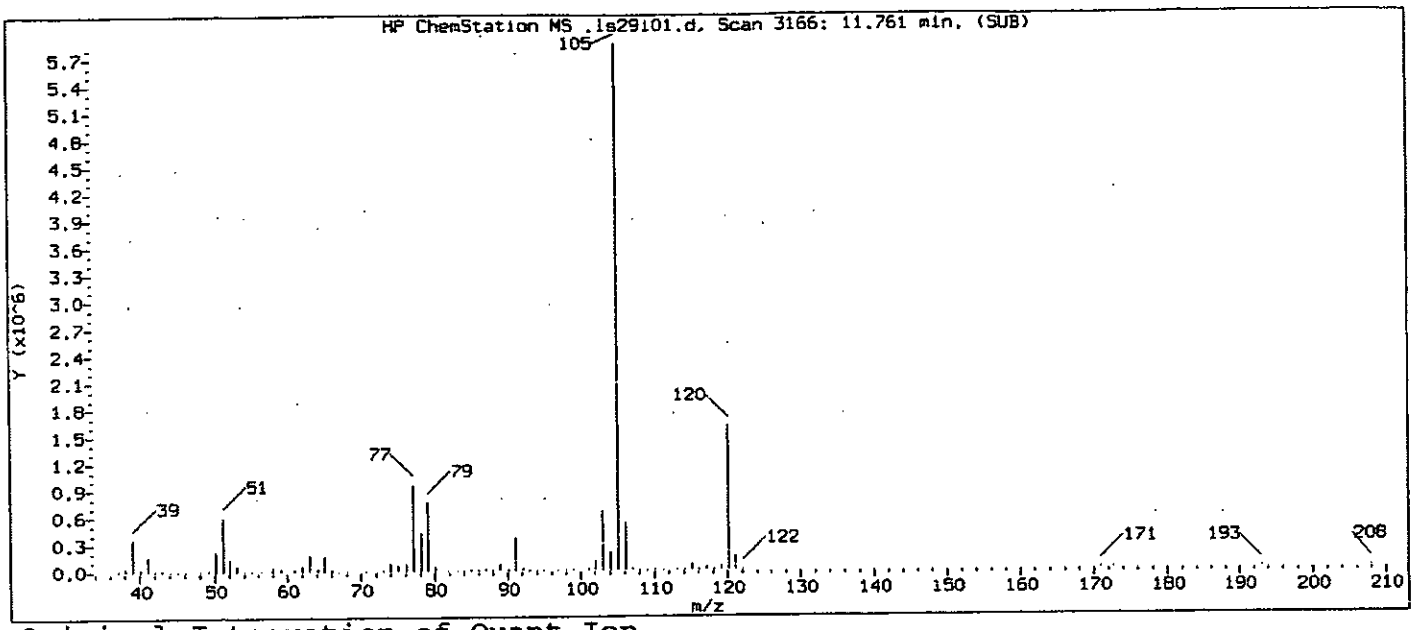
Analyst responsible for change: SAS/403 9/29/09

GC/MS audit/management approval: MM 4/08 9-30-09

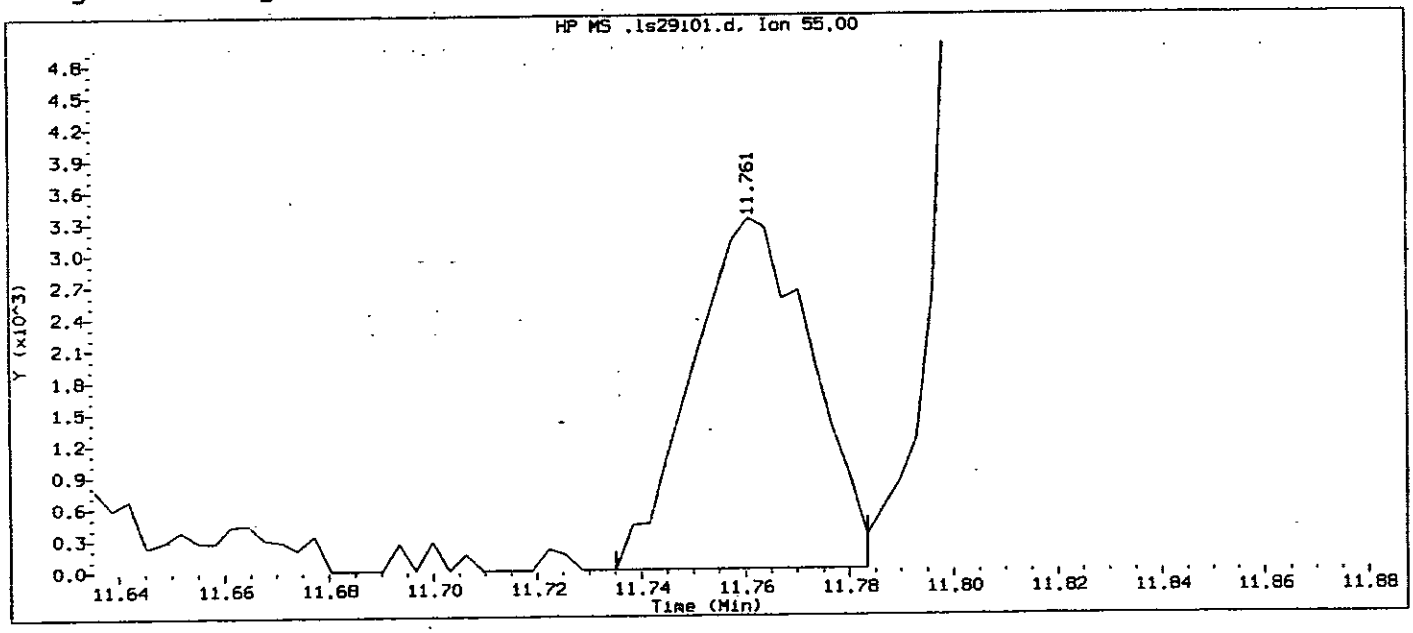
PTL03 0218

Manual Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i01.d, generated on 09/30/2009 at 00:35

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i01.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 21:39 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:58
Date, time and analyst ID of latest file update: 29-Sep-2009 21:58 Automation

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number	: 117
Compound Name	: Cyclohexanone
Scan Number	: 3166
Retention Time (minutes)	: 11.761
Quant Ion	: 55
Area	: 5279
Concentration (ug/L)	: 16.1217
Integration start scan	: 3157 Integration stop scan: 3172
Y at integration start	: 0 Y at integration end: 0

PTL83 0219

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i01.d, generated on 09/30/2009 at 00:35

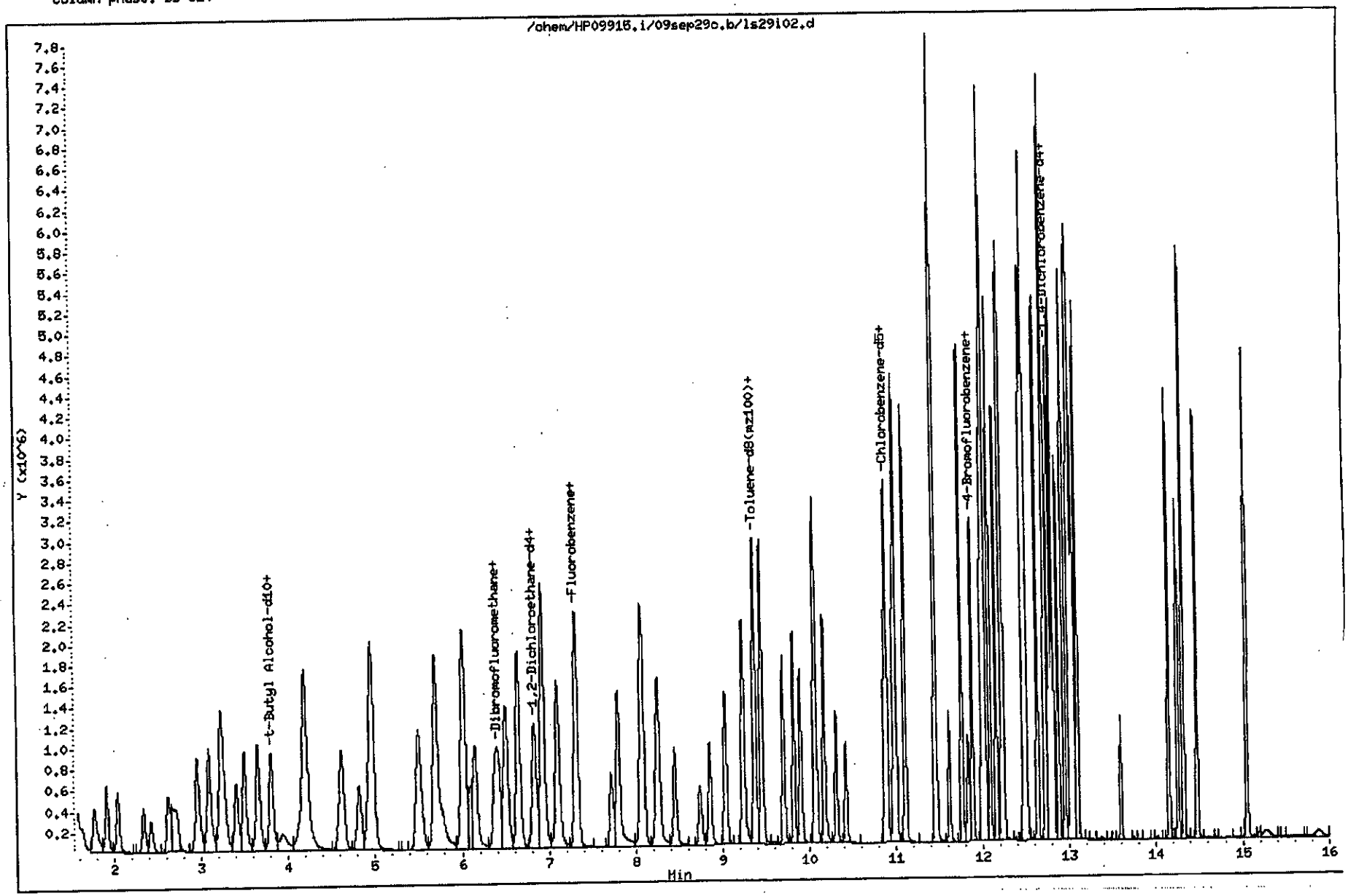
Data File: /chem/HP09915.i/09sep29c.b/ls29i02.d
Date : 29-SEP-2009 22:01
Client ID: VSTD100
Sample Info: VSTD100;VSTD100;1;1;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: KDP02245
Column diameter: 0.25

KDP02245
9/29/09

FILE 8229



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29i02.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:01 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:09 kdp02245

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.771	85	987654	94.894
3) Chloromethane	(1)	1.916	50	933133M	98.083
4) Vinyl Chloride	(1)	2.044	62	840186	97.238
8) Bromomethane	(1)	2.340	94	393566	98.770
9) Chloroethane	(1)	2.421	64	360405	90.557
10) Dichlorofluoromethane	(1)	2.623	67	781253	90.564
11) Trichlorofluoromethane	(1)	2.675	101	1045997M	96.665
15) Ethyl Ether	(1)	2.954	59	461266	98.814
16) Freon 123a	(1)	2.970	67	468387MA	90.890
18) Acrolein	(4)	3.089	56	1610958	931.993
19) 1,1-Dichloroethene	(1)	3.224	96	468628	96.190
20) Freon 113	(1)	3.253	101	531169	96.948
21) Acetone	(1)	3.253	43	481229	169.945
22) 2-Propanol	(4)	3.414	45	322558	418.960
23) Methyl Iodide	(1)	3.405	142	955539	94.865
24) Carbon Disulfide	(1)	3.498	76	2017237	98.998
27) Allyl Chloride	(1)	3.649	41	916670	92.899
28) Methyl Acetate	(1)	3.662	43	753048	92.470
29) Methylene Chloride	(1)	3.806	84	638287	91.467
30)*t-Butyl Alcohol-d10	(4)	3.832	65	274058	250.000
31) t-Butyl Alcohol	(4)	3.941	59	534679	450.084
32) Acrylonitrile	(1)	4.122	53	376489	91.566
33) trans-1,2-Dichloroethene	(1)	4.189	96	600163	98.079
34) Methyl Tertiary Butyl Ether	(1)	4.202	73	2191848	100.835
35) n-Hexane	(1)	4.623	57	971646	97.450
42) 1,2-Dichloroethene (total)	(1)		96	1248903	197.025
36) 1,1-Dichloroethane	(1)	4.822	63	1138666M	97.725
40) di-Isopropyl Ether	(1)	4.954	45	2461353	99.207
41) 2-Chloro-1,3-Butadiene	(1)	4.970	53	1061461	100.561
43) Ethyl t-Butyl Ether	(1)	5.501	59	2148610M	101.177
44) cis-1,2-Dichloroethene	(1)	5.691	96	648740	98.946
45) 2-Butanone	(1)	5.700	43	1065569	183.391
46) 2,2-Dichloropropane	(1)	5.697	77	905436	101.785
47) Propionitrile	(4)	5.777	54	811741	463.242

M = Compound was manually integrated.
A = User selected an alternate hit.
* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29i02.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:01 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:09 kdp02245

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
50) Methacrylonitrile	(1)	6.006	67	1018837	249.577
51) Bromochloromethane	(1)	6.025	128	296207	94.264
52) Tetrahydrofuran	(4)	6.099	71	231645	173.330
53) Chloroform	(1)	6.150	83	1049991	99.458
57) 1,1,1-Trichloroethane	(1)	6.417	97	980528	96.782
60) Cyclohexane	(1)	6.504	56	1185288	100.094
59) Cyclohexane (mz 84)	(1)	6.504	84	923272	99.171
58) Cyclohexane (mz 69)	(1)	6.507	69	339792	99.865
61) 1,1-Dichloropropene	(1)	6.646	75	873761	100.284
62) Carbon Tetrachloride	(1)	6.655	117	806582	103.620
63) Isobutyl Alcohol	(4)	6.822	41	605011	1220.828
67) Benzene	(1)	6.925	78	2551375	99.904
68) 1,2-Dichloroethane	(1)	6.941	62	987211	101.159
69) 1,2-Dichloroethane (mz 98)	(1)	6.941	98	77108	99.110
71) t-Amyl Methyl Ether	(1)	7.102	73	2020945	102.301
72) *Fluorobenzene	(1)	7.308	96	1284611	50.000
74) n-Heptane	(1)	7.321	43	1084230	99.716
75) n-Butanol	(4)	7.719	56	992988	2533.326
76) Trichloroethene	(1)	7.800	95	627512	99.349
77) Methylcyclohexane	(1)	8.067	83	926323	94.098
78) Methylcyclohexane (mz98)	(1)	8.067	98	413704	93.474
79) 1,2-Dichloropropane	(1)	8.086	63	717213	100.634
80) Dibromomethane	(1)	8.237	93	442127	100.154
81) Methyl Methacrylate	(1)	8.266	69	674254	103.868
82) 1,4-Dioxane	(4)	8.263	88	132179	1273.148
84) Bromodichloromethane	(1)	8.453	83	822220	104.276
85) 2-Nitropropane	(1)	8.739	41	533620	199.168
86) 2-Chloroethyl Vinyl Ether	(1)	8.861	63	577061	105.745
87) cis-1,3-Dichloropropene	(1)	9.038	75	1100810	106.433
89) 4-Methyl-2-Pentanone	(1)	9.243	43	2236618	189.676
93) Toluene	(2)	9.456	92	1528501	99.192
94) trans-1,3-Dichloropropene	(2)	9.707	75	1088896	105.425
95) Ethyl Methacrylate	(2)	9.825	69	1124746	105.292
96) 1,1,2-Trichloroethane	(2)	9.906	97	598521	99.543

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29i02.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:01 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:09 kdp02245

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
97) Tetrachloroethene	(2)	10.067	166	671182	100.231
98) 1,3-Dichloropropane	(2)	10.083	76	1137239	102.138
100) 2-Hexanone	(2)	10.176	43	1734052	185.984
102) Dibromochloromethane	(2)	10.314	129	712053	107.303
103) 1,2-Dibromoethane	(2)	10.424	107	687547	102.252
104) *Chlorobenzene-d5	(2)	10.874	117	942747	50.000
105) Chlorobenzene	(2)	10.899	112	1752903	99.290
107) 1,1,1,2-Tetrachloroethane	(2)	10.977	131	613407	100.725
108) Ethylbenzene	(2)	11.005	91	2990580	98.761
109) m+p-Xylene	(2)	11.108	106	1158599	98.806
110) Xylene (Total)	(2)		106	2278436	198.628
111) o-Xylene	(2)	11.456	106	1119837	99.822
112) Styrene	(2)	11.462	104	1894243	102.408
113) Bromoform	(2)	11.616	173	529663	106.229
115) Isopropylbenzene	(2)	11.761	105	2906811	99.067
117) Cyclohexanone	(4)	11.832	55	498647 A	1307.438
120) 1,1,2,2-Tetrachloroethane	(3)	11.989	83	1026269	102.372
122) Bromobenzene	(3)	12.005	156	763834	101.308
123) 1,2,3-Trichloropropane	(3)	12.025	110	312227	104.171
124) trans-1,4-Dichloro-2-Butene	(3)	12.031	53	960011	269.181
125) n-Propylbenzene	(3)	12.089	120	837017	102.365
126) 2-Chlorotoluene	(3)	12.160	126	711124	100.776
127) 1,3,5-Trimethylbenzene	(3)	12.221	120	1245113	103.452
128) 4-Chlorotoluene	(3)	12.240	126	744569	101.127
130) tert-Butylbenzene	(3)	12.472	134	557953	101.233
131) Pentachloroethane	(3)	12.491	167	473427	99.621
132) 1,2,4-Trimethylbenzene	(3)	12.504	105	2657845	103.946
134) sec-Butylbenzene	(3)	12.636	134	644499	102.464
135) 1,3-Dichlorobenzene	(3)	12.722	146	1446160	102.123
136) p-Isopropyltoluene	(3)	12.735	134	750224	104.311
137) *1,4-Dichlorobenzene-d4	(3)	12.771	152	523935	50.000
138) 1,4-Dichlorobenzene	(3)	12.787	146	1515735	101.045
139) 1,2,3-Trimethylbenzene	(3)	12.819	120	1097461	95.289
140) Benzyl Chloride	(3)	12.880	91	2180601	110.420

A = User selected an alternate hit.
* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29i02.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:01 Analyst ID: KDP02245

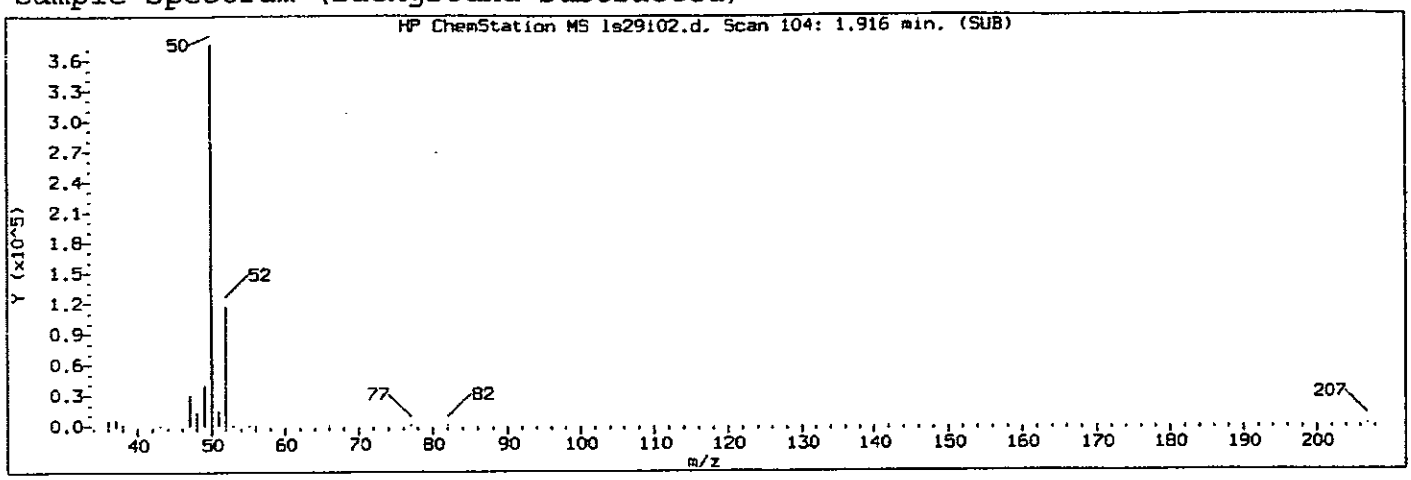
Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:09 kdp02245

Sample Name: VSTD100 Lab Sample ID: VSTD100

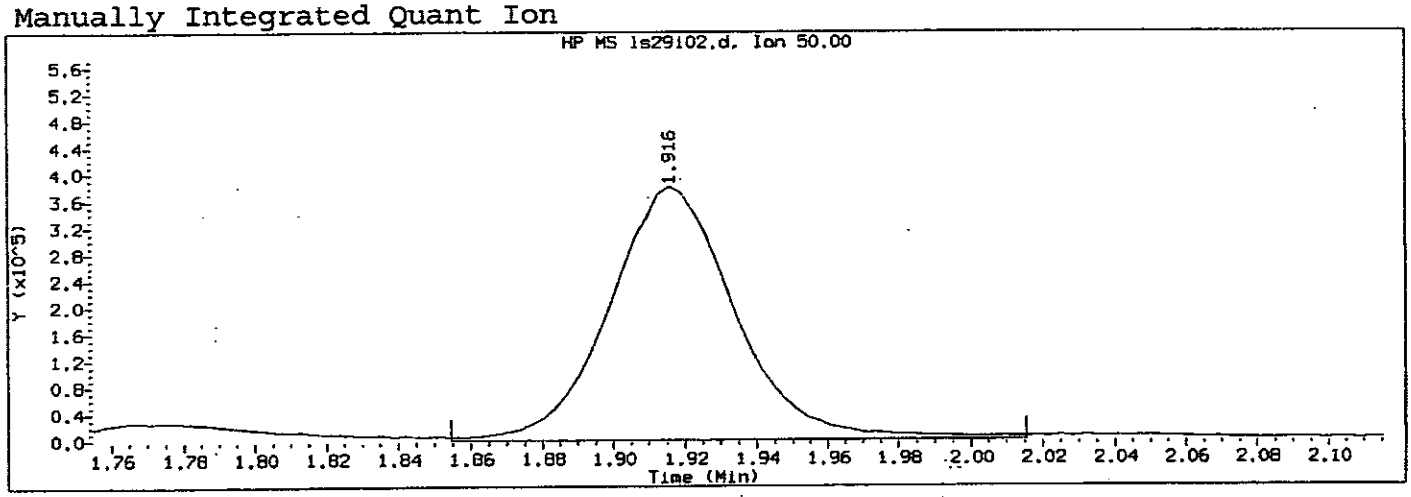
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
141) 1,3-Diethylbenzene	(3)	12.951	119	1536614	95.605
142) 1,4-Diethylbenzene	(3)	13.012	119	1528872	95.263
143) n-Butylbenzene	(3)	13.031	92	1347561	102.007
144) 1,2-Dichlorobenzene	(3)	13.057	146	1402014	100.762
145) 1,2-Diethylbenzene	(3)	13.099	119	1264155	95.125
146) 1,2-Dibromo-3-Chloropropane	(3)	13.594	75	246137	108.977
147) 1,2,4-Trichlorobenzene	(3)	14.153	180	1111045	101.527
148) Hexachlorobutadiene	(3)	14.256	225	527726	101.211
149) Naphthalene	(3)	14.320	128	3643813	105.791
150) 1,2,3-Trichlorobenzene	(3)	14.478	180	1089502	100.911
152) 2-Methylnaphthalene	(3)	15.054	142	2047989	96.940
54)$Dibromofluoromethane	(1)	6.375	113	638367	103.127
55)$Dibromofluoromethane(mz111)	(1)	6.375	111	652866	103.385
64)$1,2-Dichloroethane-d4	(1)	6.835	102	152375	101.830
65)$1,2-Dichloroethane-d4(mz65)	(1)	6.838	65	833342	102.401
66)$1,2-Dichloroethane-d4(mz104)	(1)	6.835	104	96818	101.322
91)$Toluene-d8	(2)	9.375	98	2498887	101.466
90)$Toluene-d8(mz100)	(2)	9.379	100	1613036	101.651
119)$4-Bromofluorobenzene	(2)	11.883	95	914868	101.062
118)$4-Bromofluorobenzene(mz174)	(2)	11.883	174	775646	101.004

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i02.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:01 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 22:25
Date, time and analyst ID of latest file update: 30-Sep-2009 00:34 sas00403

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	:	3
Compound Name	:	Chloromethane
Scan Number	:	104
Retention Time (minutes)	:	1.916
Quant Ion	:	50
Area (flag)	:	933133 M
Concentration (ug/L)	:	98.0832
Integration start scan	:	84 Integration stop scan: 134
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

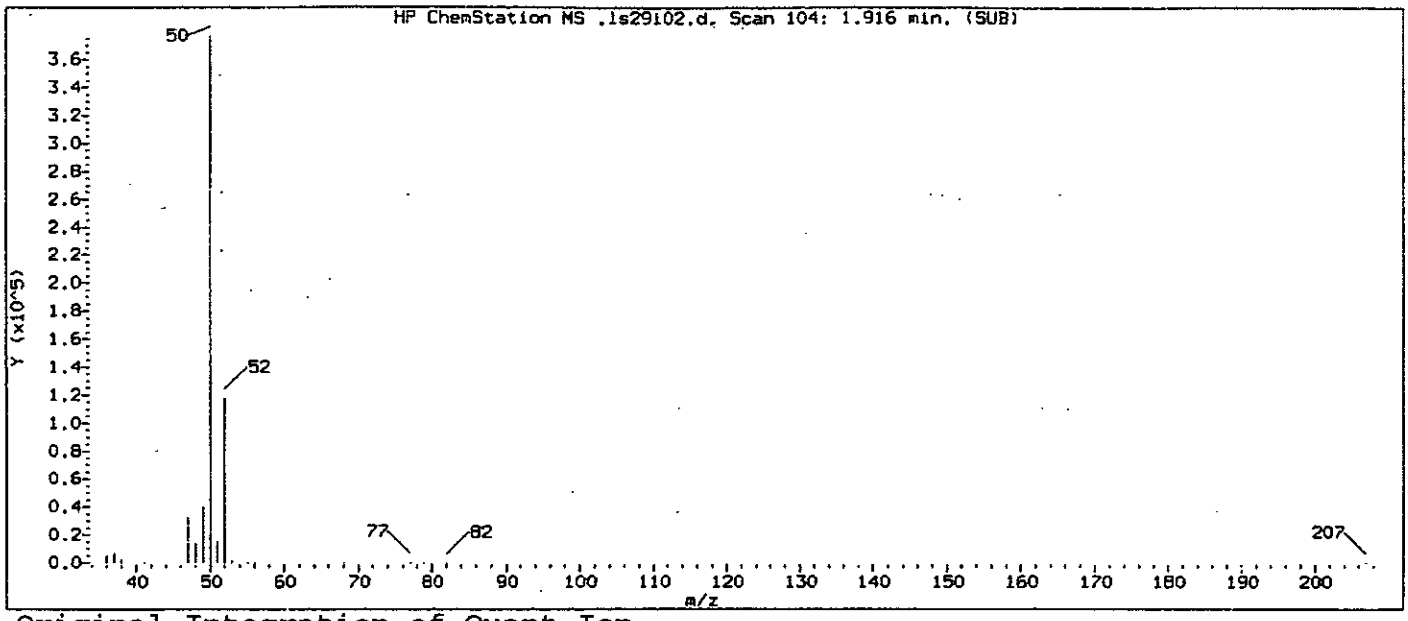
Analyst responsible for change: KDP 9/29/09

GC/MS audit/management approval: [signature] 9-30-09

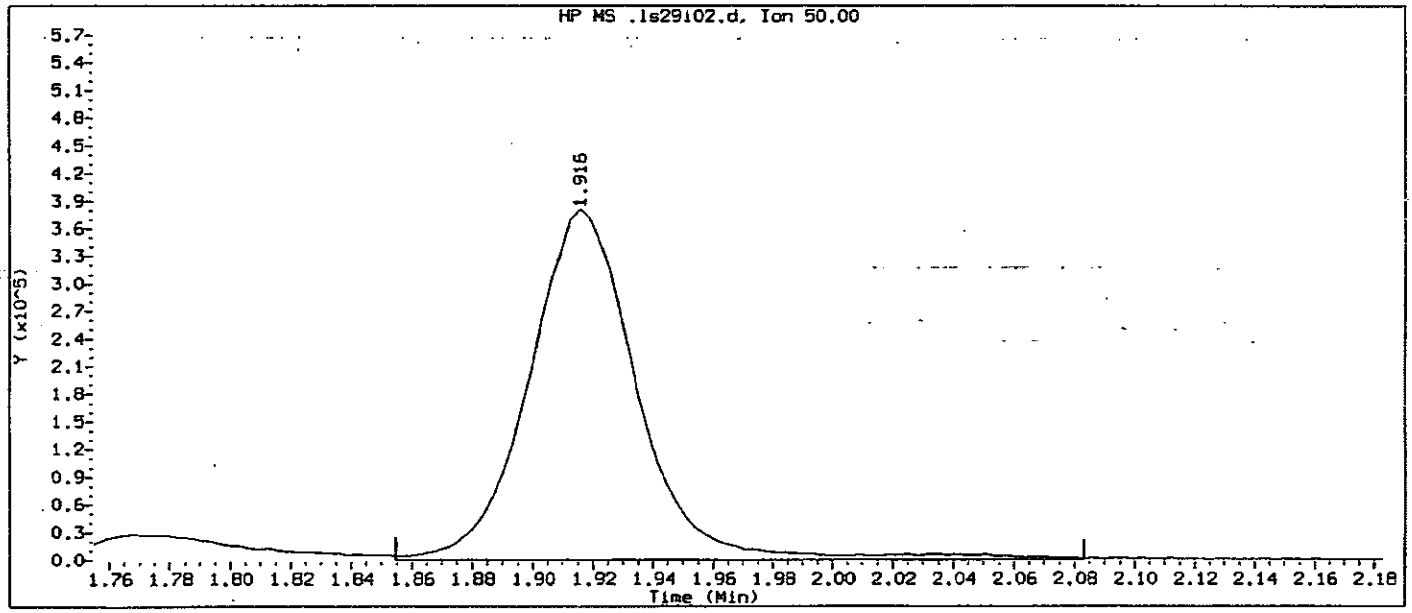
PTL03 0225

Manual Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i02.d, generated on 09/30/2009 at 00:35

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i02.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:01 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 22:19
Date, time and analyst ID of latest file update: 29-Sep-2009 22:19 Automation

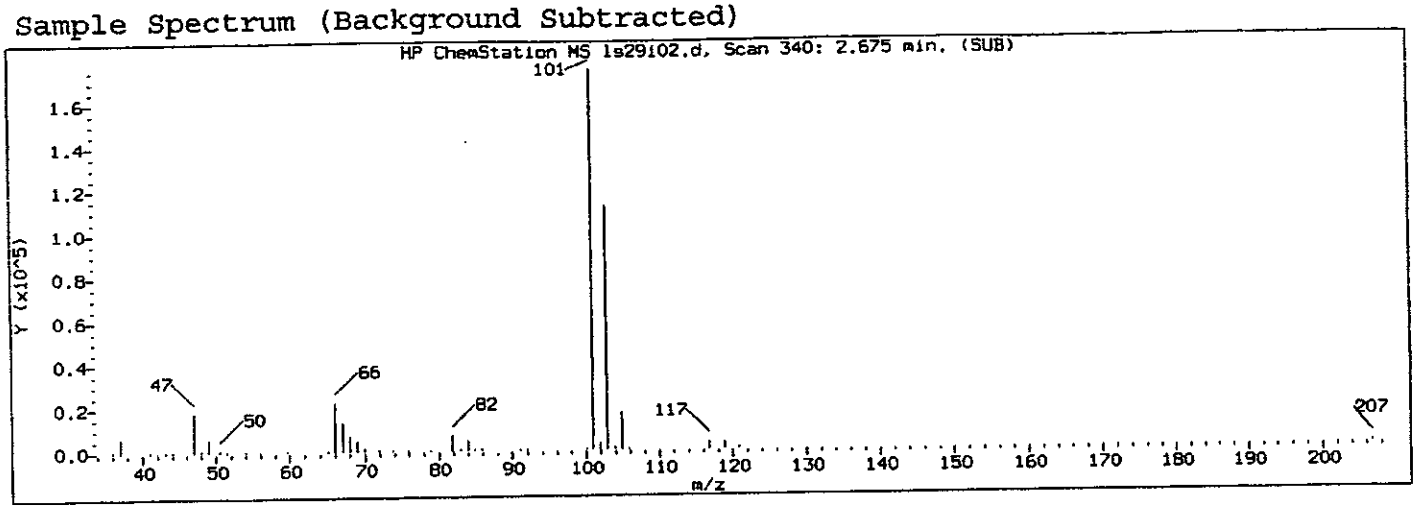
Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	:	3
Compound Name	:	Chloromethane
Scan Number	:	104
Retention Time (minutes)	:	1.916
Quant Ion	:	50
Area	:	949879
Concentration (ug/L)	:	72.4539
Integration start scan	:	84 Integration stop scan: 155
Y at integration start	:	0 Y at integration end: 0

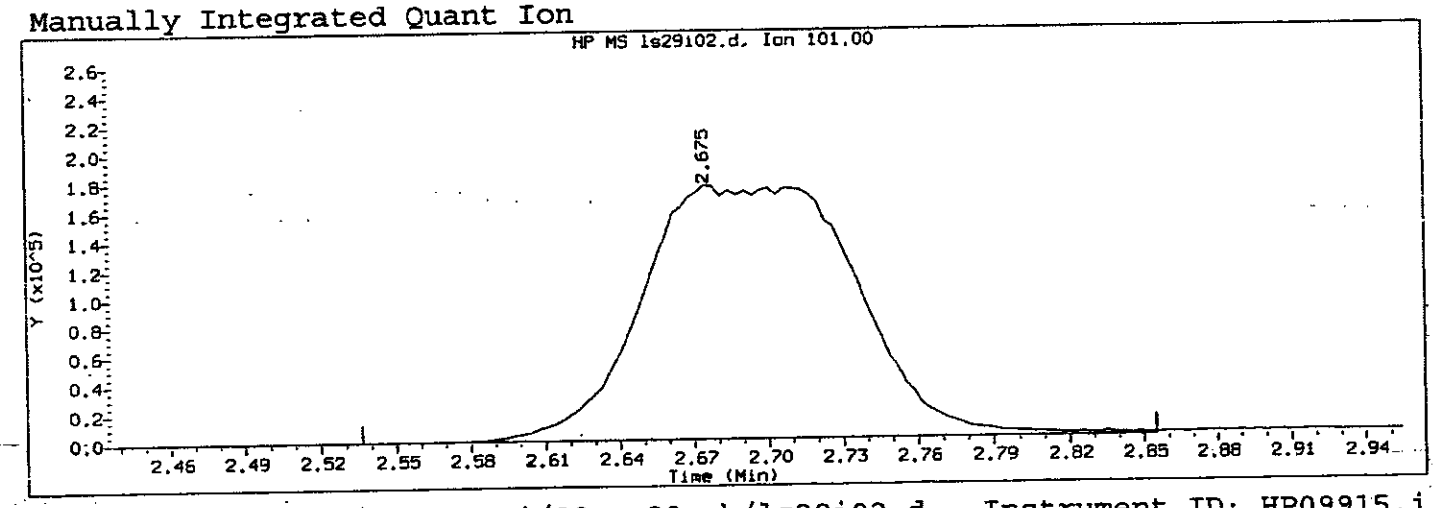
PTL03 8226

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i02.d, generated on 09/30/2009 at 00:35

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i02.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:01 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 22:25
Date, time and analyst ID of latest file update: 30-Sep-2009 17:09 kdp02245

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	: 11
Compound Name	: Trichlorofluoromethane
Scan Number	: 340
Retention Time (minutes)	: 2.675
Quant Ion	: 101
Area (flag)	: 1045997 M
Concentration (ug/L)	: 96.6653
Integration start scan	: 296 Integration stop scan: 395
Y at integration start	: 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

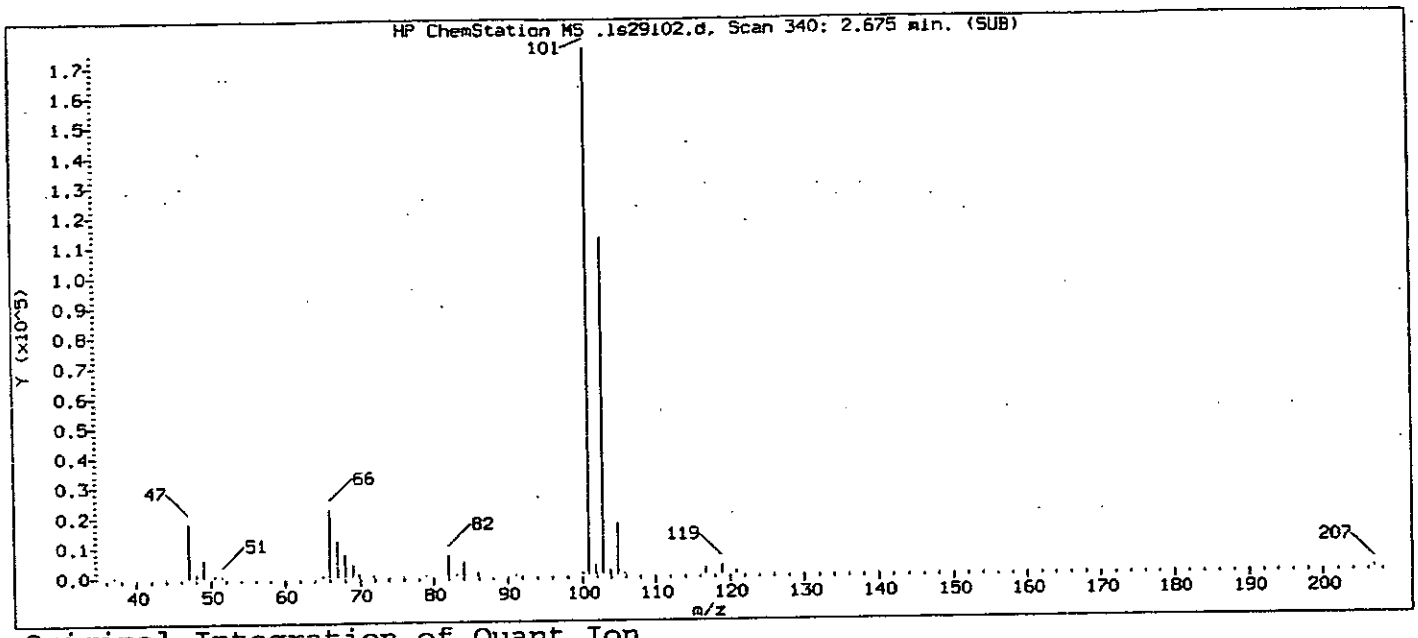
Analyst responsible for change: KDP2245 9/30/09

GC/MS audit/management approval: [signature] 9-30-09

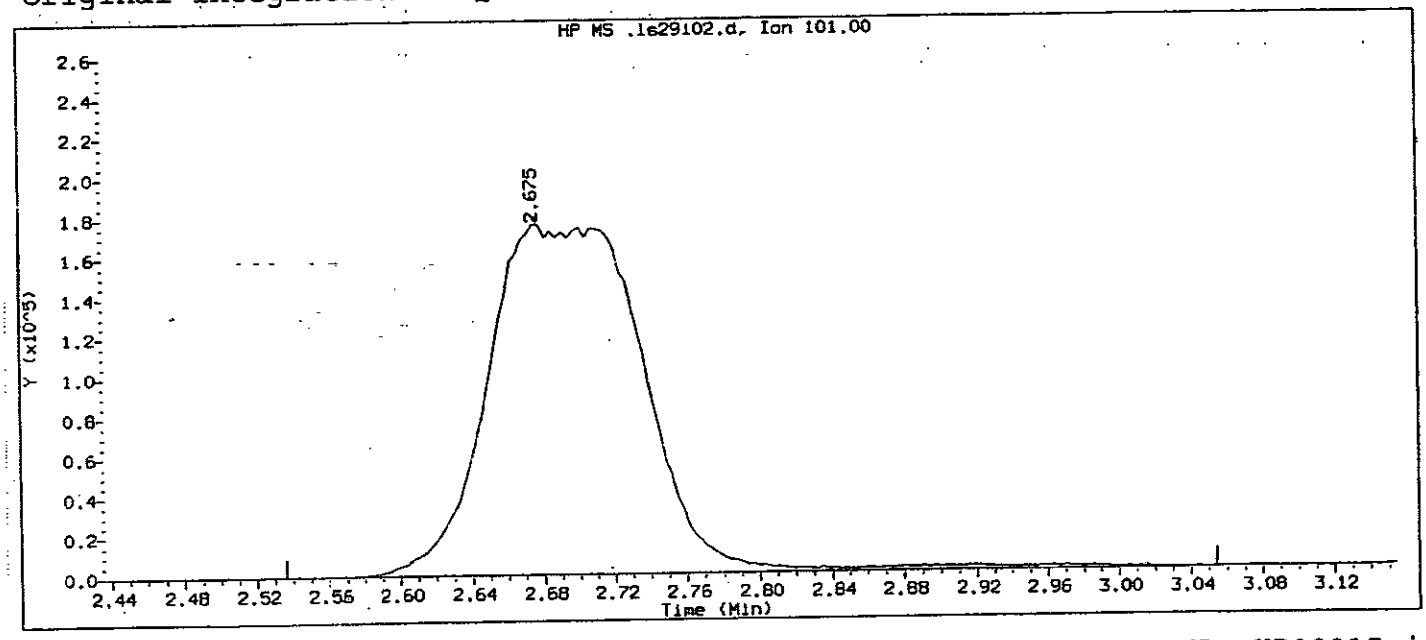
PTL83 0227

Manual Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i02.d, generated on 09/30/2009 at 17:09

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i02.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:01 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 22:19
Date, time and analyst ID of latest file update: 29-Sep-2009 22:19 Automation

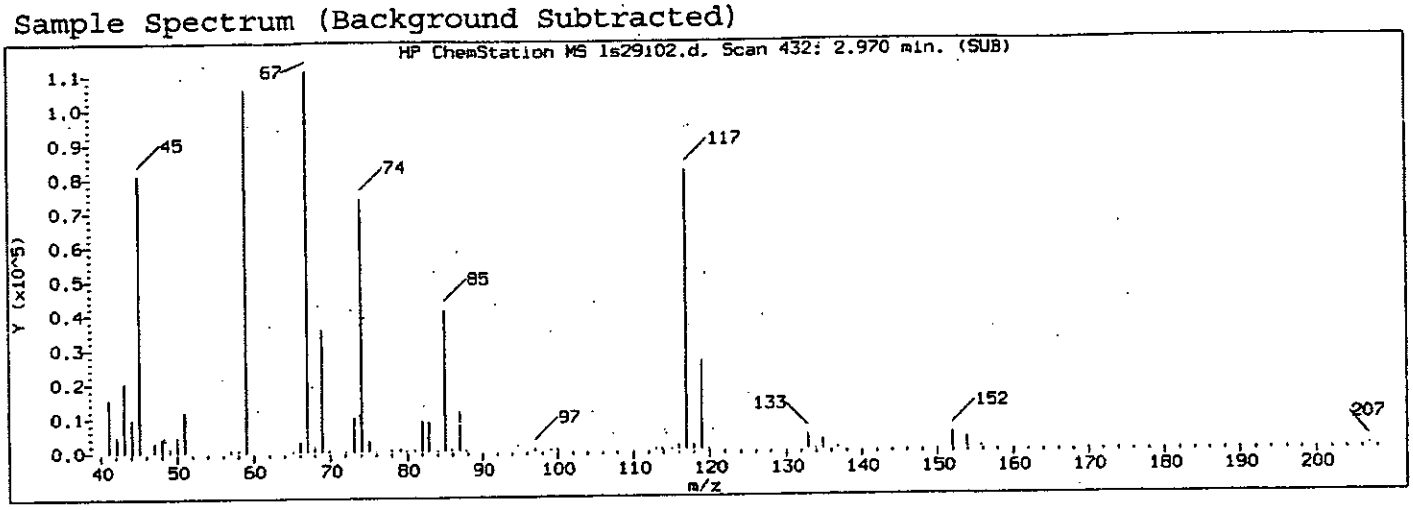
Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	: 11
Compound Name	: Trichlorofluoromethane
Scan Number	: 340
Retention Time (minutes)	: 2.675
Quant Ion	: 101
Area	: 1062036
Concentration (ug/L)	: 79.3398
Integration start scan	: 296 Integration stop scan: 457
Y at integration start	: 0 Y at integration end: 0

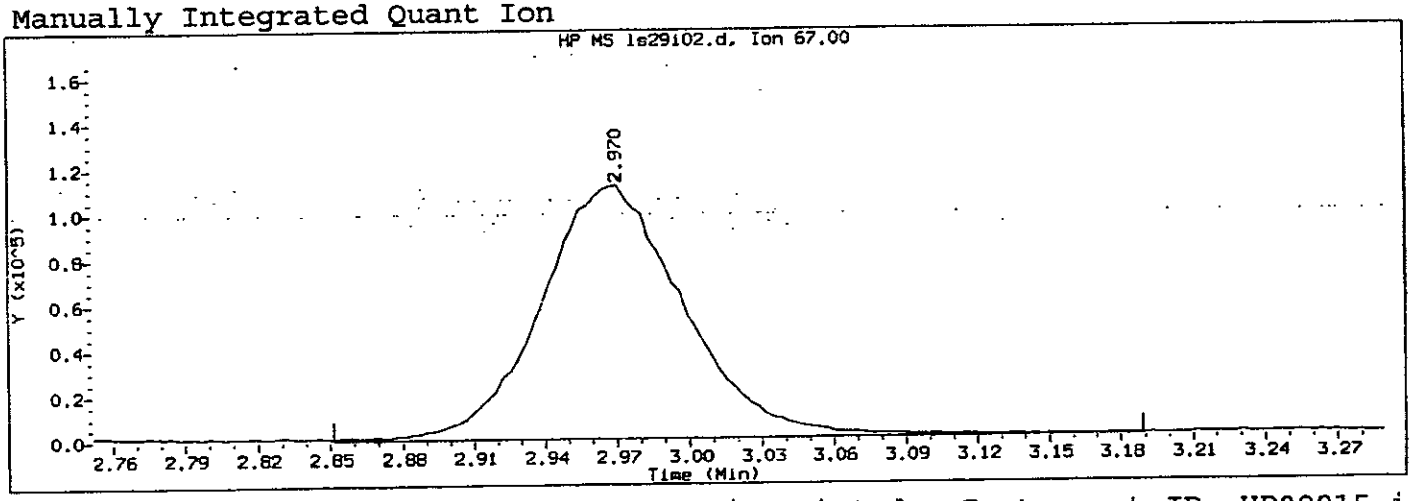
PTL03 0228

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i02.d, generated on 09/30/2009 at 17:09

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i02.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:01 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 22:25
Date, time and analyst ID of latest file update: 30-Sep-2009 17:09 kdp02245

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	:	16
Compound Name	:	Freon 123a
Scan Number	:	432
Retention Time (minutes)	:	2.970
Quant Ion	:	67
Area (flag)	:	468387AM
Concentration (ug/L)	:	90.8897
Integration start scan	:	394 Integration stop scan: 499
Y at integration start	:	0 Y at integration end: 0

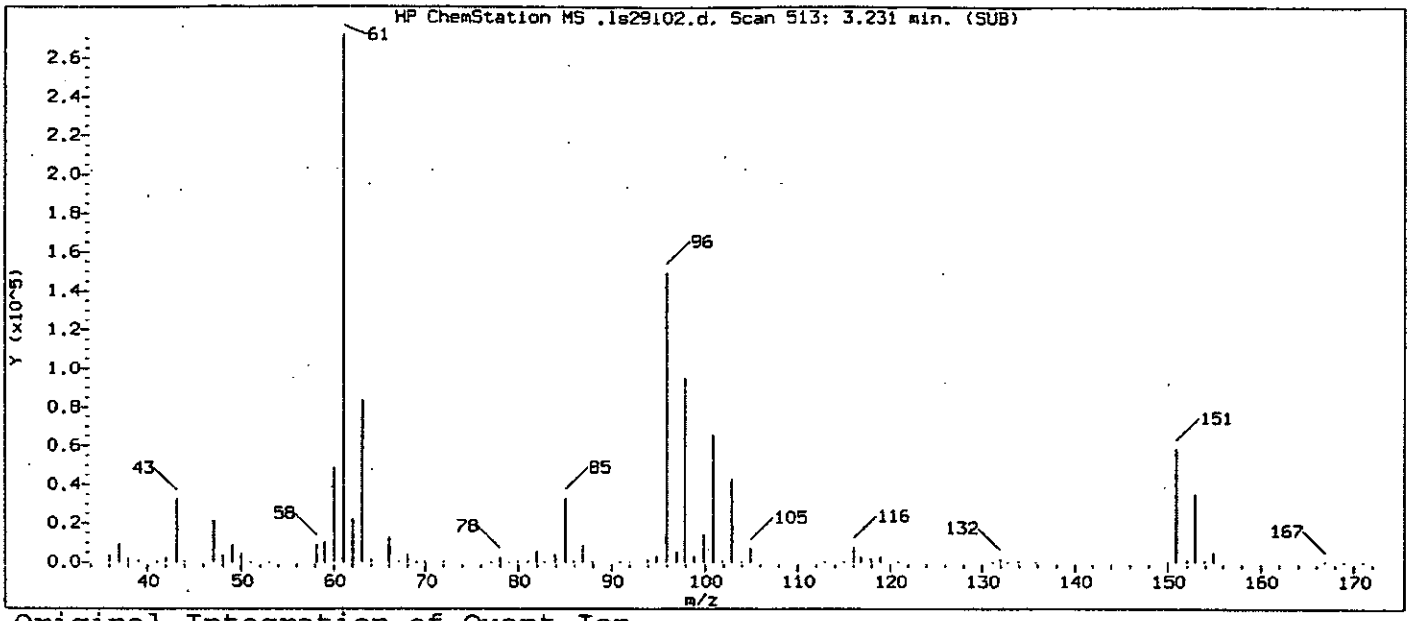
Reason for manual integration (circle one): missed peak (3) ~~improper integration~~

Analyst responsible for change: KDP 2045 9/30/09

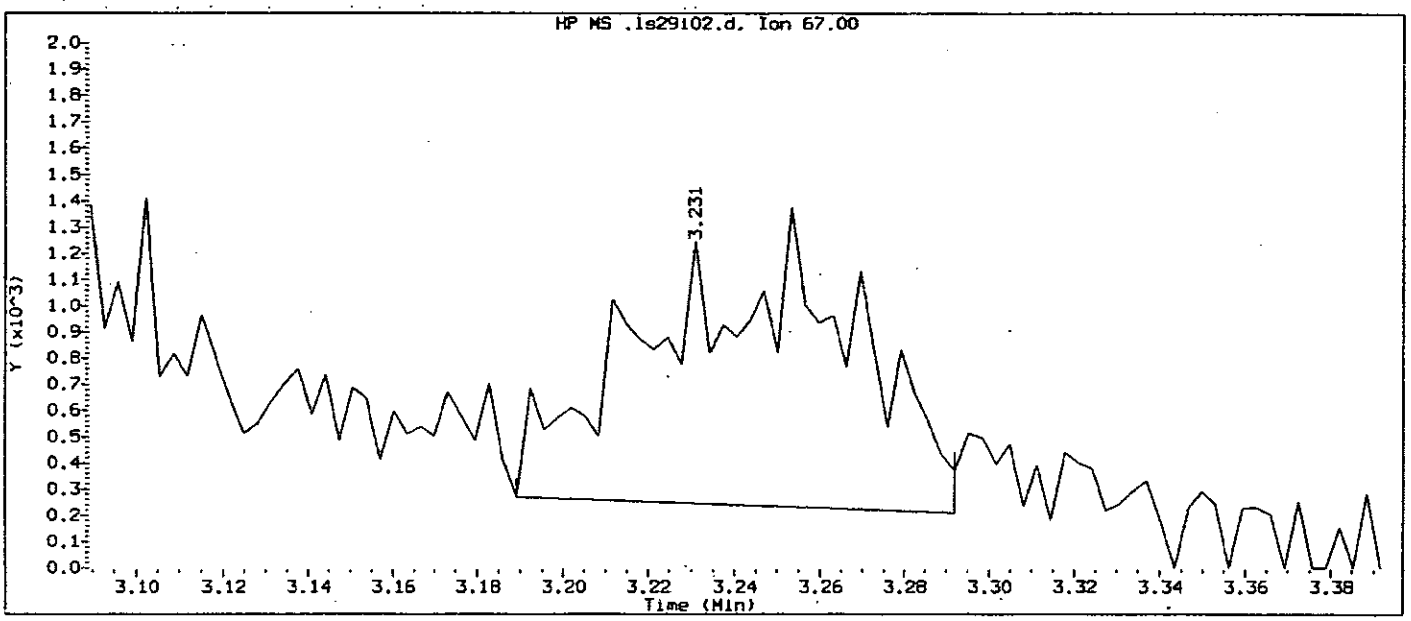
GC/MS audit/management approval: (3) 448 9-30-09

PTL03 8229

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i02.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:01 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 22:19
Date, time and analyst ID of latest file update: 29-Sep-2009 22:19 Automation

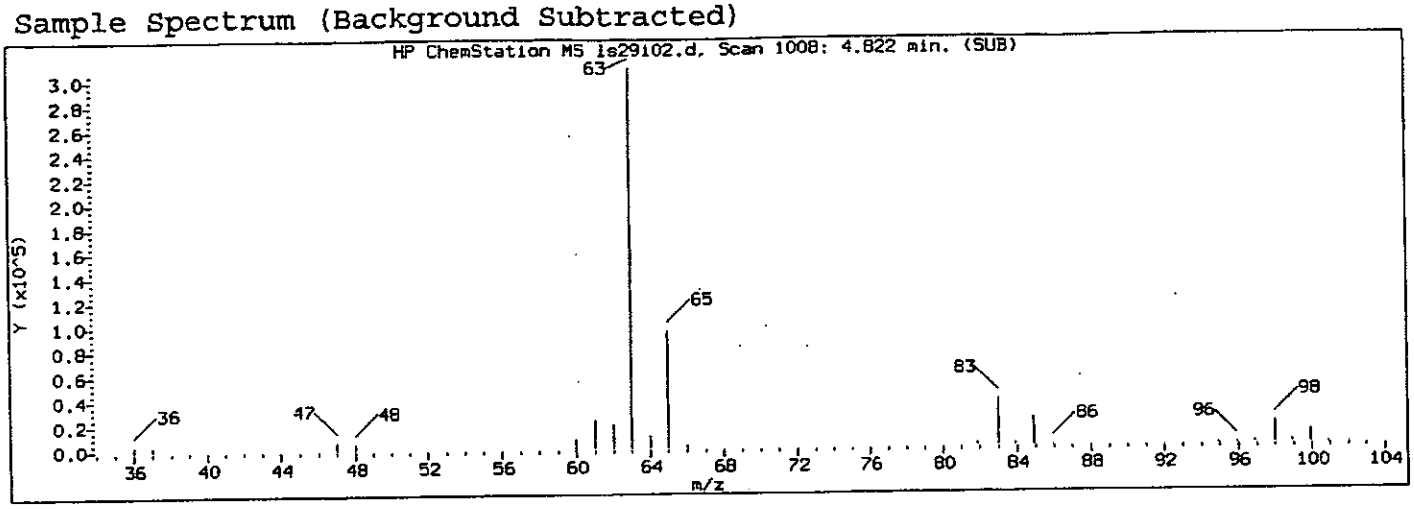
Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	:	16
Compound Name	:	Freon 123a
Scan Number	:	513
Retention Time (minutes)	:	3.231
Quant Ion	:	67
Area	:	3504
Concentration (ug/L)	:	0.5539
Integration start scan	:	499
Integration stop scan	:	531
Y at integration start	:	270
Y at integration end	:	209

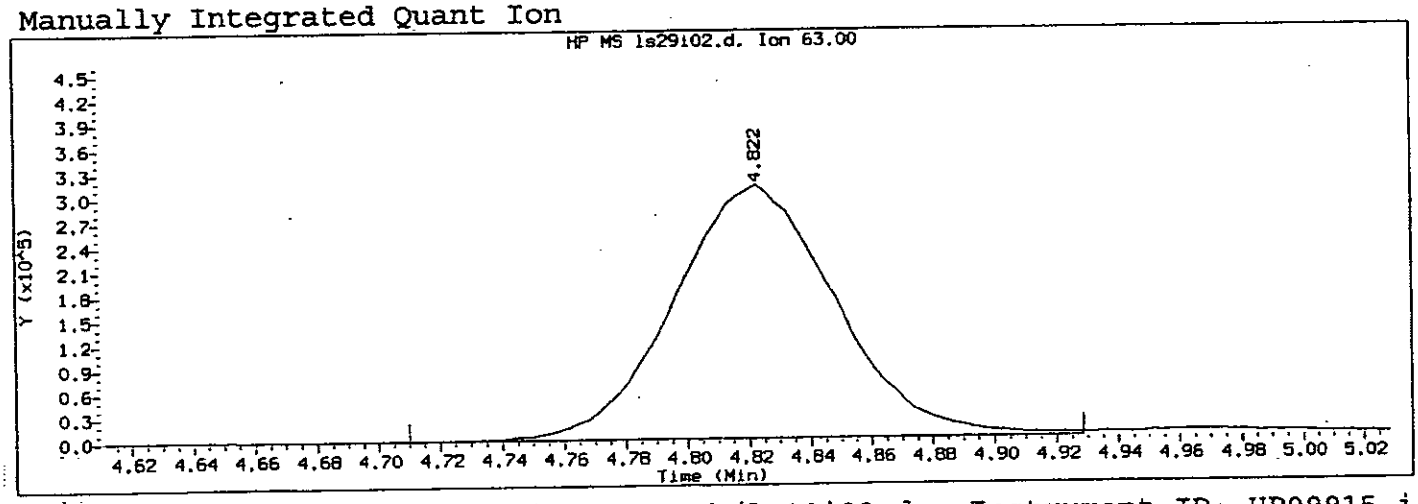
PTL03 0236

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i02.d, generated on 09/30/2009 at 17:09

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i02.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:01 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 22:25
Date, time and analyst ID of latest file update: 30-Sep-2009 00:34 sas00403

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	: 36
Compound Name	: 1,1-Dichloroethane
Scan Number	: 1008
Retention Time (minutes)	: 4.822
Quant Ion	: 63
Area (flag)	: 1138666 M
Concentration (ug/L)	: 97.7249
Integration start scan	: 972 Integration stop scan: 1040
Y at integration start	: 0 Y at integration end: 0

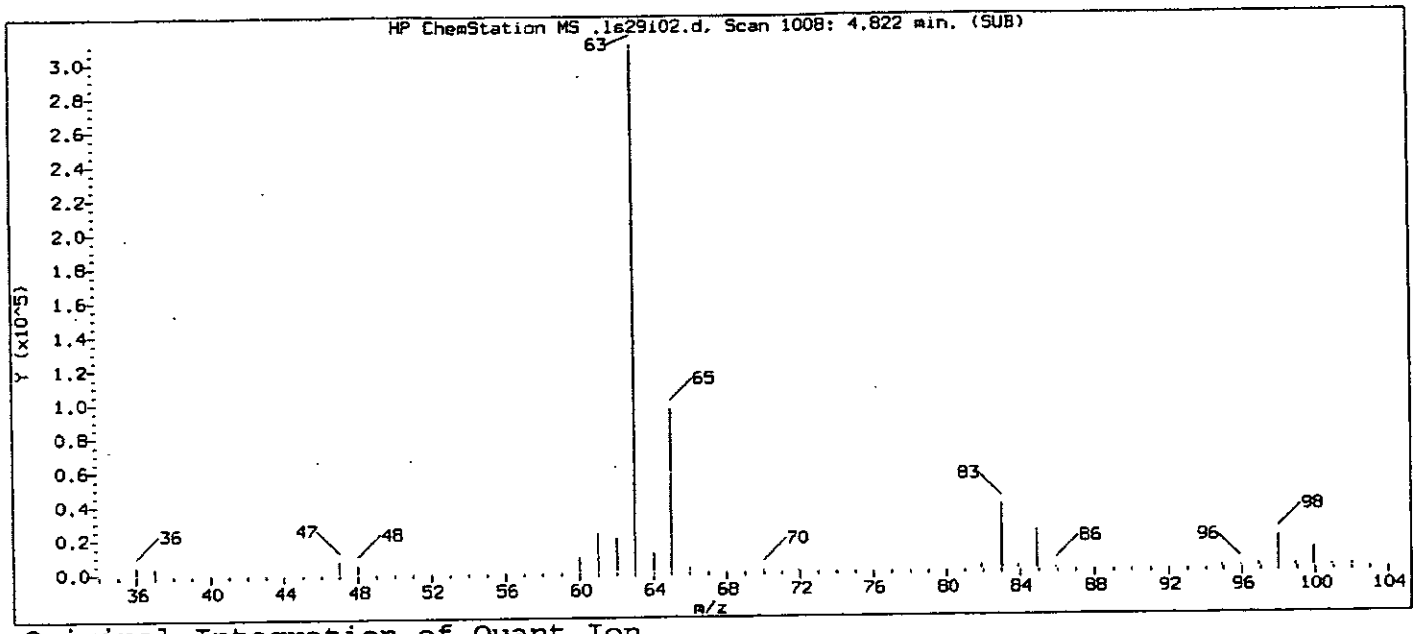
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MS 9/30/09

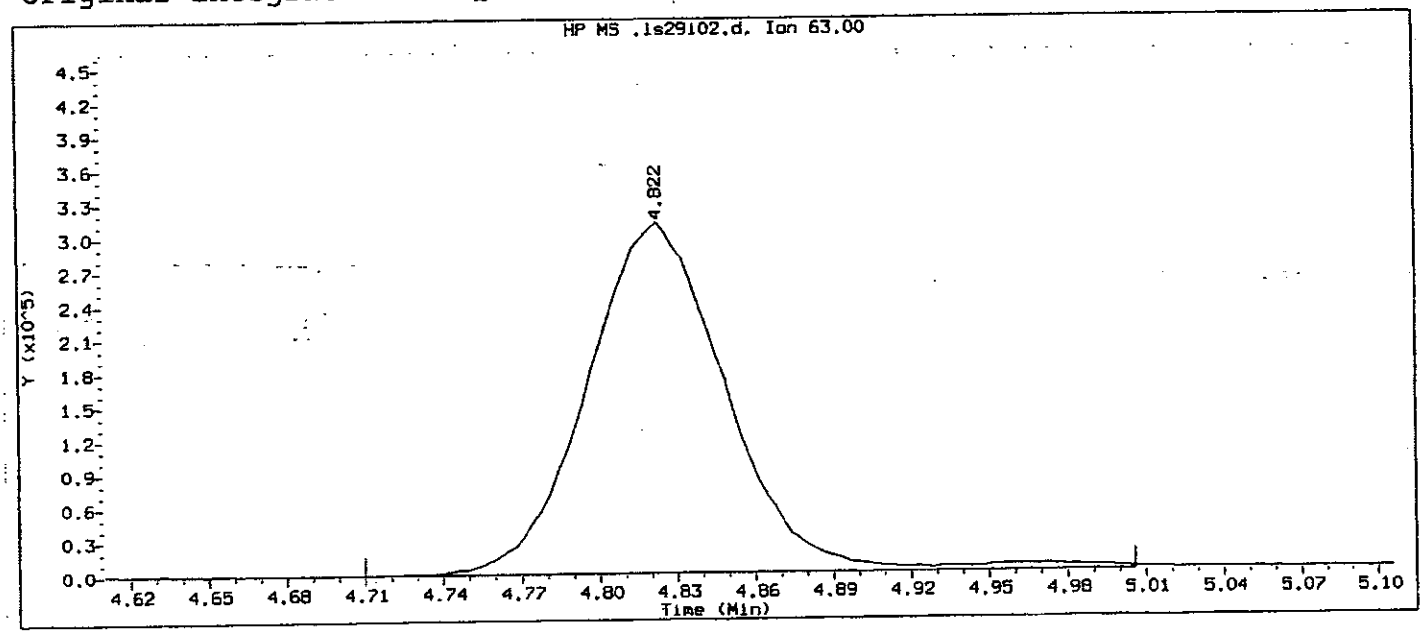
GC/MS audit/management approval: 9-30-09

PTL03 0231

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i02.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:01 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 22:19
Date, time and analyst ID of latest file update: 29-Sep-2009 22:19 Automation

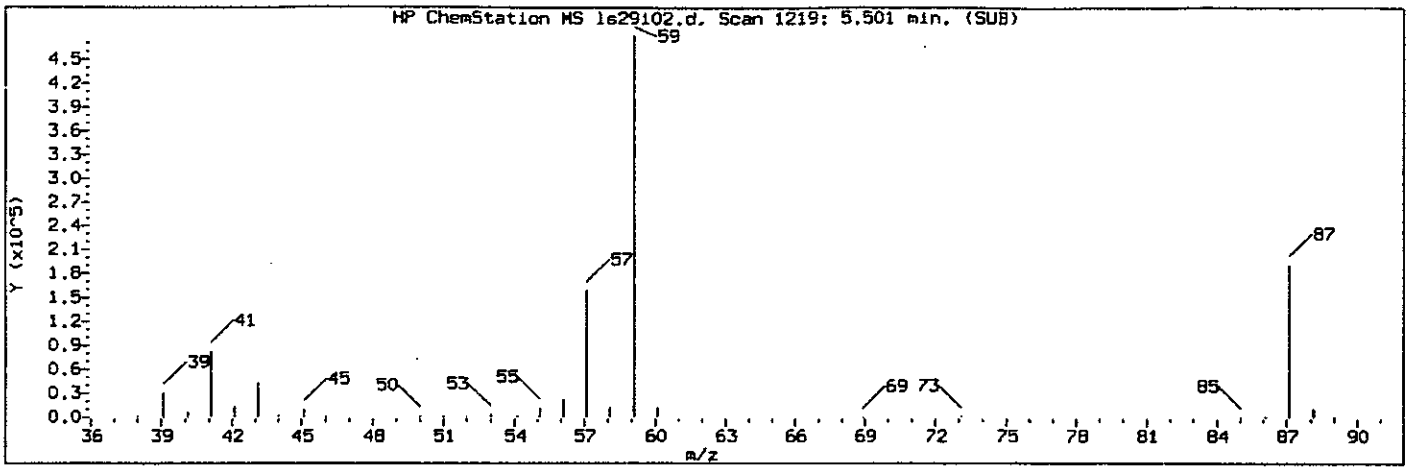
Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	:	36
Compound Name	:	1,1-Dichloroethane
Scan Number	:	1008
Retention Time (minutes)	:	4.822
Quant Ion	:	63
Area	:	1159741
Concentration (ug/L)	:	89.3986
Integration start scan	:	972 Integration stop scan: 1064
Y at integration start	:	0 Y at integration end: 0

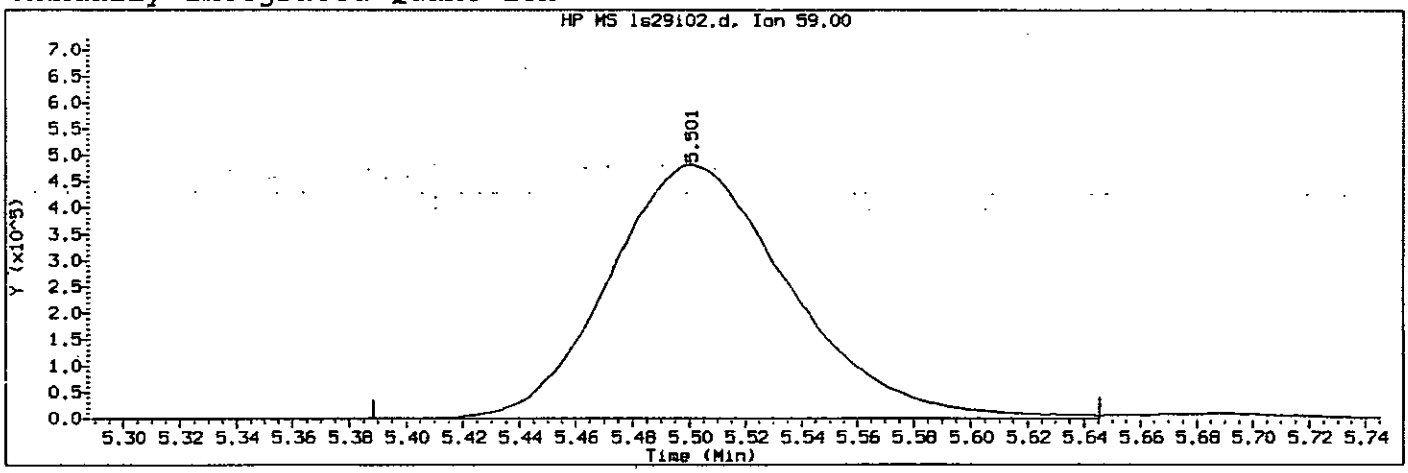
PTL03 0232

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i02.d, generated on 09/30/2009 at 00:35

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i02.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:01 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 22:25
Date, time and analyst ID of latest file update: 30-Sep-2009 00:34 sas00403

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	:	43
Compound Name	:	Ethyl t-Butyl Ether
Scan Number	:	1219
Retention Time (minutes)	:	5.501
Quant Ion	:	59
Area (flag)	:	2148610 M
Concentration (ug/L)	:	100.5521
Integration start scan	:	1183 Integration stop scan: 1263
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

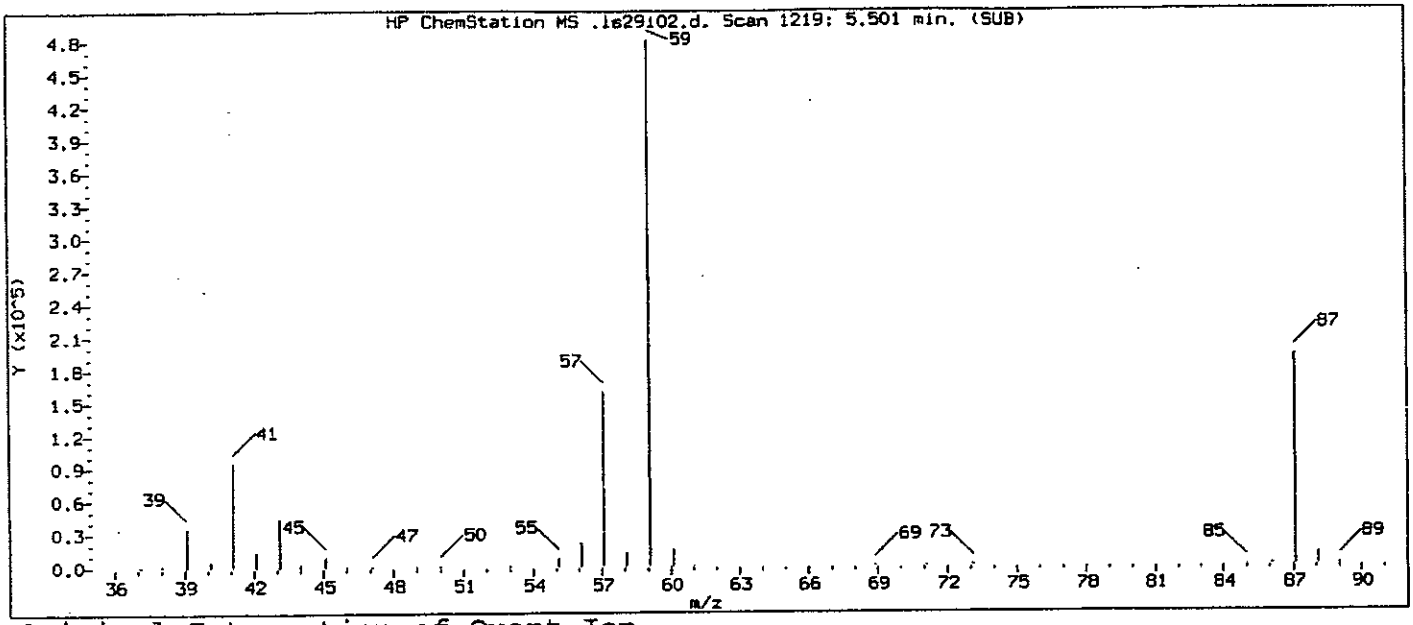
Analyst responsible for change: MS/403 9/30/09

GC/MS audit/management approval: 9-30-09

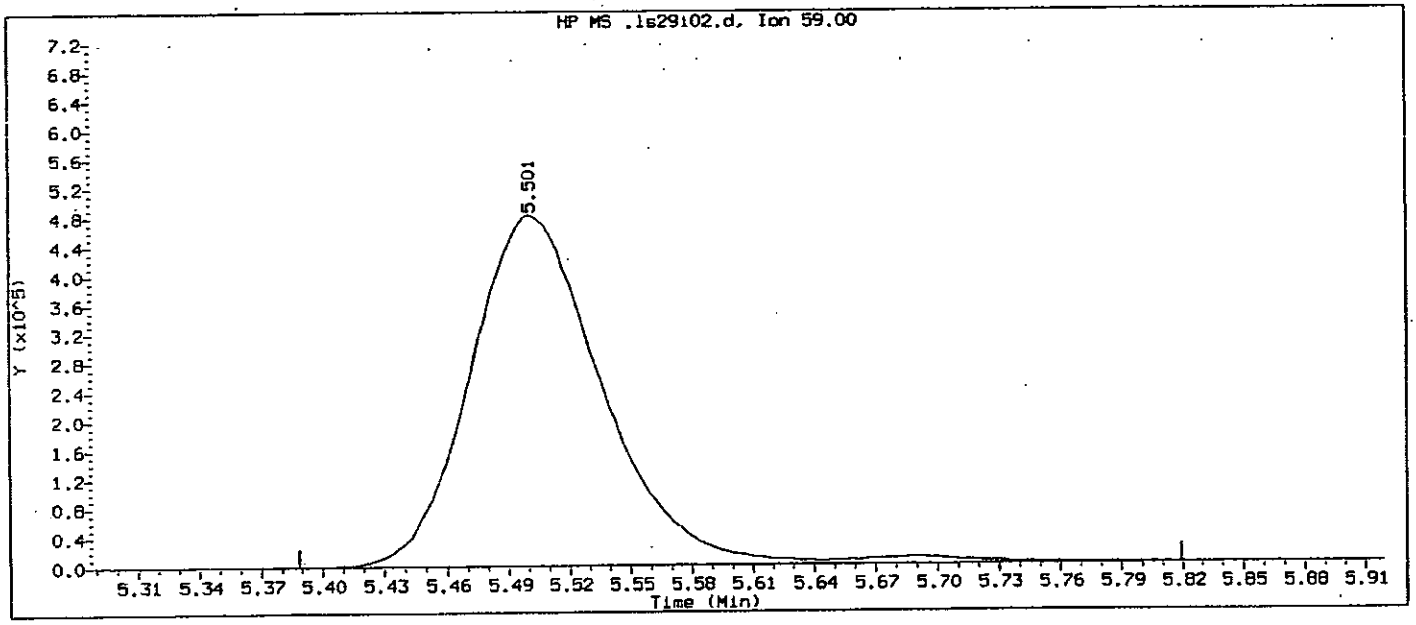
PTL03 0033

Manual Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i02.d, generated on 09/30/2009 at 00:35

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i02.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:01 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 22:19
Date, time and analyst ID of latest file update: 29-Sep-2009 22:19 Automation

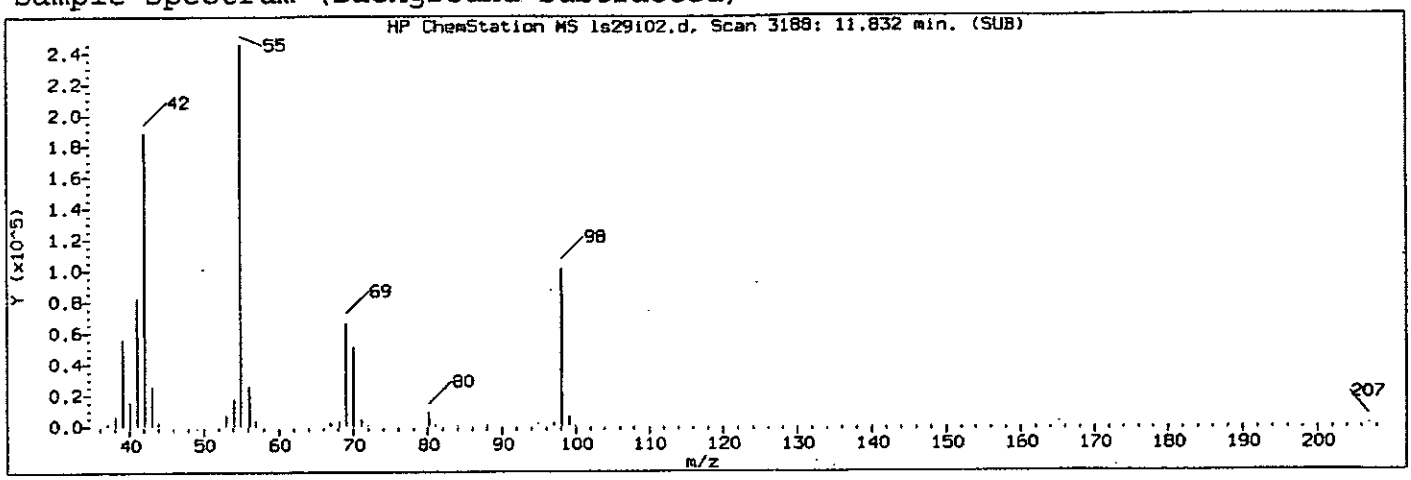
Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	: 43
Compound Name	: Ethyl t-Butyl Ether
Scan Number	: 1219
Retention Time (minutes)	: 5.501
Quant Ion	: 59
Area	: 2193885
Concentration (ug/L)	: 92.1299
Integration start scan	: 1183 Integration stop scan: 1317
Y at integration start	: 0 Y at integration end: 0

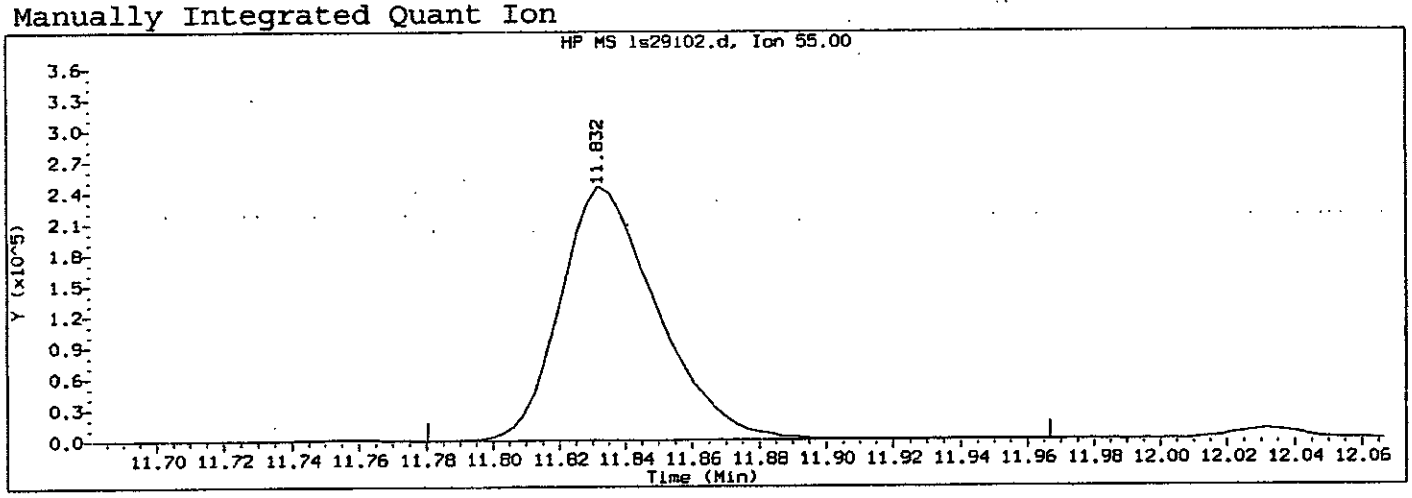
PTL03 0234

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i02.d, generated on 09/30/2009 at 00:35

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i02.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:01 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 22:25
Date, time and analyst ID of latest file update: 30-Sep-2009 00:34 sas00403

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number : 117
Compound Name : Cyclohexanone
Scan Number : 3188
Retention Time (minutes): 11.832
Quant Ion : 55
Area (flag) : 498647A
Concentration (ug/L) : 1307.4381
Integration start scan : 3171 Integration stop scan: 3229
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

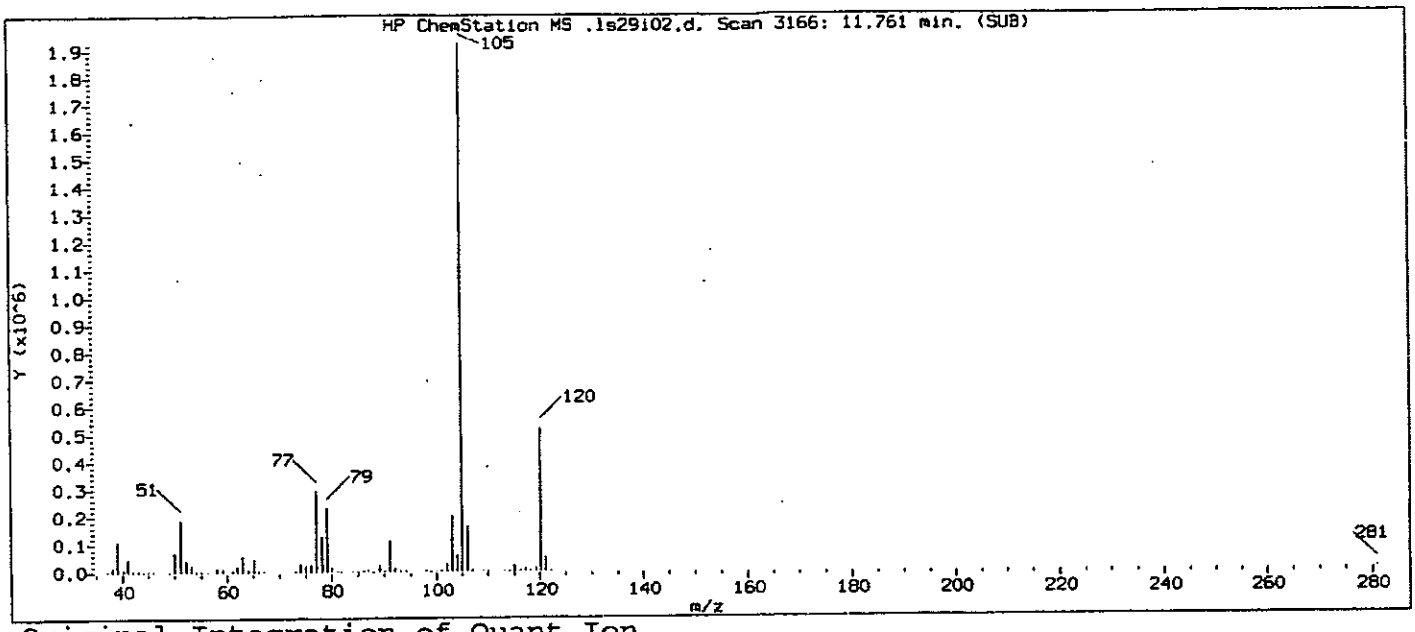
Analyst responsible for change: SAS/403 9/30/09

GC/MS audit/management approval: 9/30/09

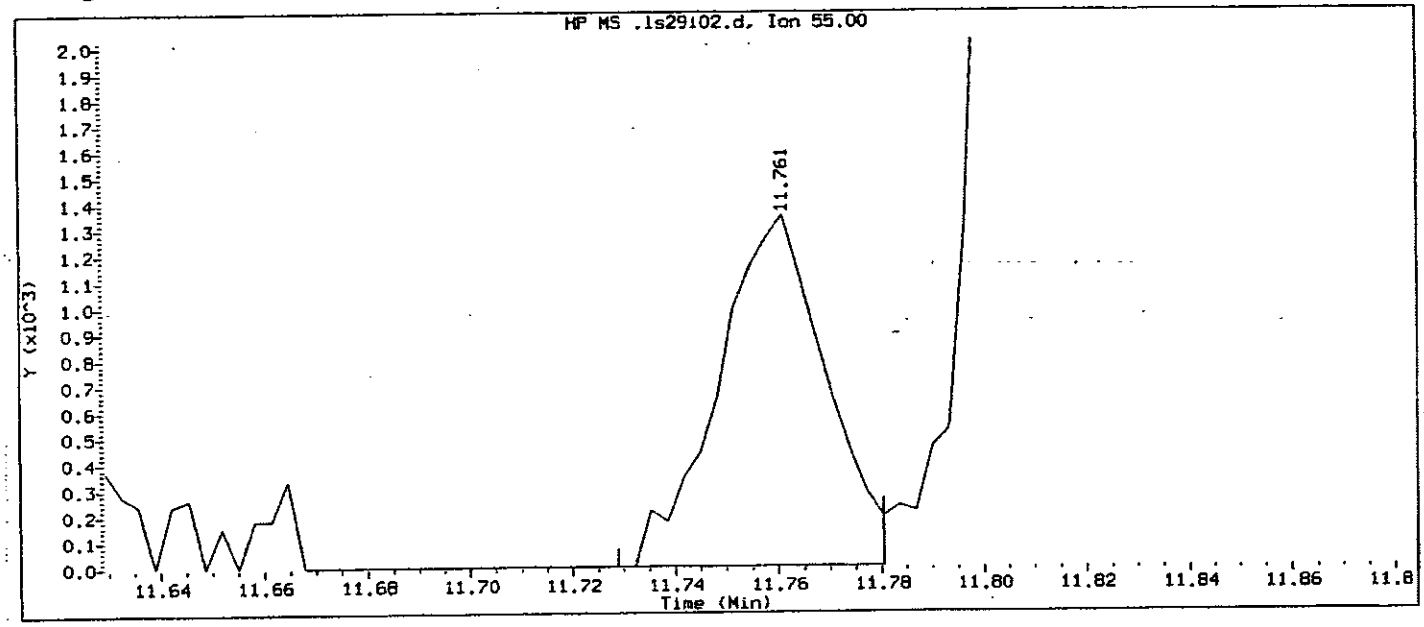
PTL03 8235

Manual Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i02.d, generated on 09/30/2009 at 00:35

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i02.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:01 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 22:19
Date, time and analyst ID of latest file update: 29-Sep-2009 22:19 Automation

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number	: 117
Compound Name	: Cyclohexanone
Scan Number	: 3166
Retention Time (minutes)	: 11.761
Quant Ion	: 55
Area	: 1934
Concentration (ug/L)	: 6.7092
Integration start scan	: 3155 Integration stop scan: 3171
Y at integration start	: 0 Y at integration end: 0

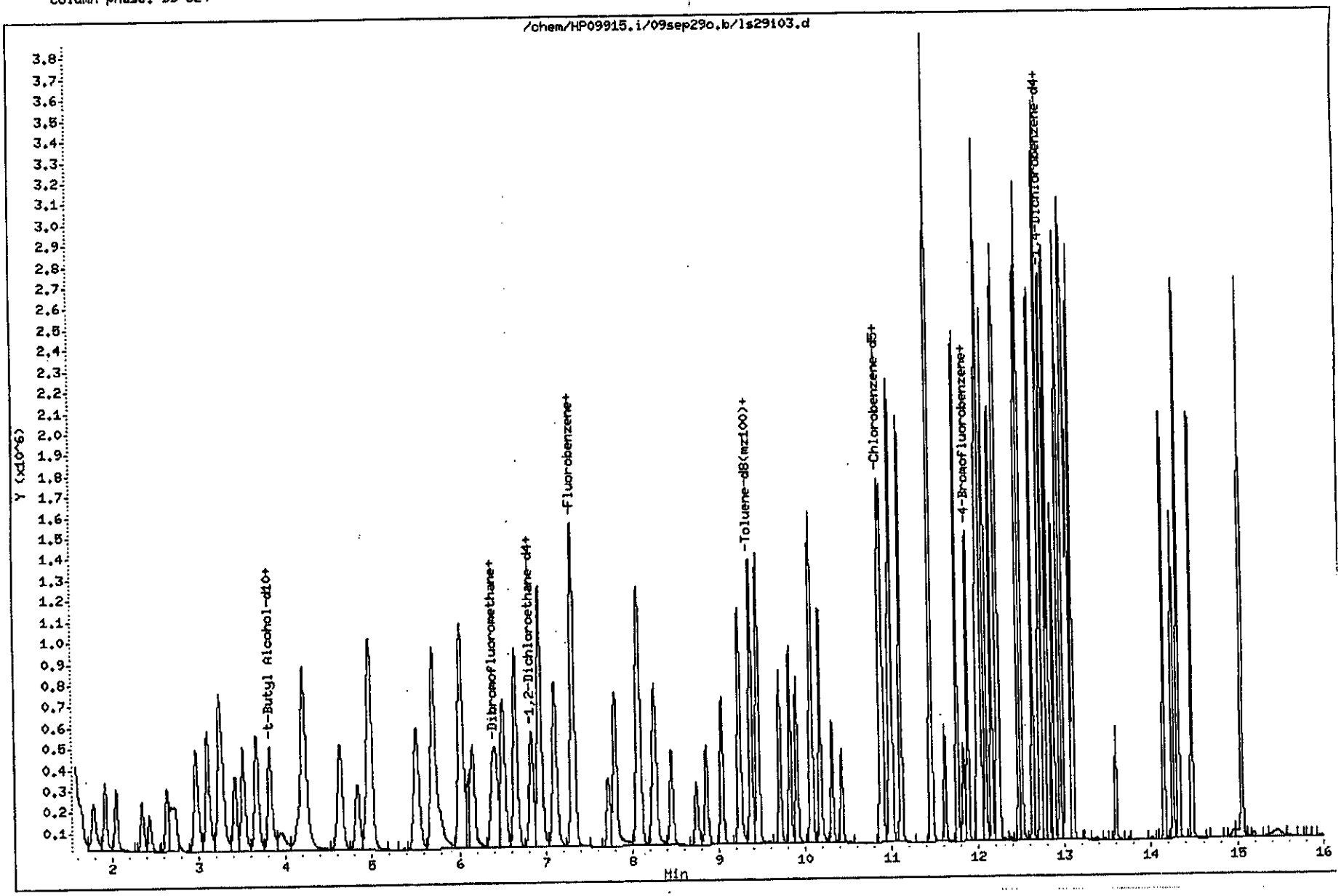
PTL83 0236

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i02.d, generated on 09/30/2009 at 00:35

Data File: /chem/HP09915.i/09sep29c.b/ls29103.d
Date : 29-SEP-2009 22:23
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;1;1;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i
Operator: KDP02248
Column diameter: 0.25

KDP2245 9/29/09 FILE: 0237



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29i03.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:23 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:09 kdp02245

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.784	85	523059	50.842
3) Chloromethane	(1)	1.919	50	462713	49.204
4) Vinyl Chloride	(1)	2.051	62	432494	50.638
8) Bromomethane	(1)	2.350	94	222292	51.865
9) Chloroethane	(1)	2.433	64	199187	50.633
10) Dichlorofluoromethane	(1)	2.633	67	433314	50.816
11) Trichlorofluoromethane	(1)	2.720	101	540969	50.577
15) Ethyl Ether	(1)	2.967	59	237972	51.574
16) Freon 123a	(1)	2.974	67	262494MA	51.358
18) Acrolein	(4)	3.105	56	905911	511.434
19) 1,1-Dichloroethene	(1)	3.237	96	247003	51.291
20) Freon 113	(1)	3.263	101	285507	52.719
21) Acetone	(1)	3.269	43	269041	96.120
22) 2-Propanol	(4)	3.427	45	168047	215.492
23) Methyl Iodide	(1)	3.420	142	519804	52.208
24) Carbon Disulfide	(1)	3.510	76	1041769	51.722
27) Allyl Chloride	(1)	3.662	41	497062	50.962
28) Methyl Acetate	(1)	3.681	43	403643	50.144
29) Methylene Chloride	(1)	3.819	84	322572	46.764
30)*t-Butyl Alcohol-d10	(4)	3.838	65	277592	250.000
31) t-Butyl Alcohol	(4)	3.948	59	250724	208.369
32) Acrylonitrile	(1)	4.134	53	204859	50.405
33) trans-1,2-Dichloroethene	(1)	4.205	96	306261	50.633
34) Methyl Tertiary Butyl Ether	(1)	4.211	73	1062390	49.445
35) n-Hexane	(1)	4.629	57	517367	52.494
42) 1,2-Dichloroethene (total)	(1)		96	631079	100.753
36) 1,1-Dichloroethane	(1)	4.835	63	573853	49.825
40) di-Isopropyl Ether	(1)	4.964	45	1218048	49.668
41) 2-Chloro-1,3-Butadiene	(1)	4.977	53	534517	51.230
43) Ethyl t-Butyl Ether	(1)	5.514	59	1060233	50.509
44) cis-1,2-Dichloroethene	(1)	5.700	96	324818	50.120
45) 2-Butanone	(1)	5.710	43	575775	100.251
46) 2,2-Dichloropropane	(1)	5.703	77	452798	51.495
47) Propionitrile	(4)	5.787	54	392125	220.928

M = Compound was manually integrated.
A = User selected an alternate hit.
* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29i03.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:23 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:09 kdp02245

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
50) Methacrylonitrile	(1)	6.015	67	498792	123.611
51) Bromochloromethane	(1)	6.041	128	157630	50.749
52) Tetrahydrofuran	(4)	6.108	71	126197	93.226
53) Chloroform	(1)	6.163	83	522429	50.063
57) 1,1,1-Trichloroethane	(1)	6.424	97	492207	49.150
60) Cyclohexane	(1)	6.507	56	616156	52.640
59) Cyclohexane (mz 84)	(1)	6.510	84	483074	52.494
58) Cyclohexane (mz 69)	(1)	6.510	69	176998	52.627
61) 1,1-Dichloropropene	(1)	6.655	75	437214	50.766
62) Carbon Tetrachloride	(1)	6.658	117	402186	52.271
63) Isobutyl Alcohol	(4)	6.832	41	263686	525.308
67) Benzene	(1)	6.932	78	1266357	50.165
68) 1,2-Dichloroethane	(1)	6.951	62	475056	49.247
69) 1,2-Dichloroethane (mz 98)	(1)	6.954	98	37399	48.632
71) t-Amyl Methyl Ether	(1)	7.105	73	981926	50.285
72) *Fluorobenzene	(1)	7.314	96	1269794	50.000
74) n-Heptane	(1)	7.330	43	548348	51.019
75) n-Butanol	(4)	7.729	56	438871	1105.400
76) Trichloroethene	(1)	7.809	95	317406	50.839
77) Methylcyclohexane	(1)	8.070	83	513268	52.748
78) Methylcyclohexane (mz98)	(1)	8.070	98	228558	52.244
79) 1,2-Dichloropropane	(1)	8.095	63	356282	50.574
80) Dibromomethane	(1)	8.243	93	214194	49.087
81) Methyl Methacrylate	(1)	8.269	69	321994	50.181
82) 1,4-Dioxane	(4)	8.276	88	61109	581.108
84) Bromodichloromethane	(1)	8.456	83	395195	50.705
85) 2-Nitropropane	(1)	8.745	41	279840	105.666
86) 2-Chloroethyl Vinyl Ether	(1)	8.861	63	277927	51.524
87) cis-1,3-Dichloropropene	(1)	9.041	75	512183	50.099
89) 4-Methyl-2-Pentanone	(1)	9.247	43	1131661	97.090
93) Toluene	(2)	9.459	92	729014	49.707
94) trans-1,3-Dichloropropene	(2)	9.710	75	495771	50.432
95) Ethyl Methacrylate	(2)	9.829	69	511183	50.279
96) 1,1,2-Trichloroethane	(2)	9.909	97	279408	48.825

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/1s29i03.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:23 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:09 kdp02245

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
97) Tetrachloroethene	(2)	10.070	166	328038	51.471
98) 1,3-Dichloropropane	(2)	10.086	76	523422	49.392
100) 2-Hexanone	(2)	10.176	43	877639	98.901
102) Dibromochloromethane	(2)	10.314	129	321167	50.851
103) 1,2-Dibromoethane	(2)	10.427	107	319197	49.877
104) *Chlorobenzene-d5	(2)	10.874	117	897271	50.000
105) Chlorobenzene	(2)	10.902	112	838437	49.899
107) 1,1,1,2-Tetrachloroethane	(2)	10.976	131	297275	51.288
108) Ethylbenzene	(2)	11.005	91	1465907	50.864
109) m+p-Xylene	(2)	11.111	106	566082	50.723
110) Xylene (Total)	(2)		106	1119185	102.525
111) o-Xylene	(2)	11.455	106	553103	51.802
112) Styrene	(2)	11.462	104	922246	52.386
113) Bromoform	(2)	11.616	173	241853	50.965
115) Isopropylbenzene	(2)	11.761	105	1429400	51.185
117) Cyclohexanone	(4)	11.835	55	227786	589.645
120) 1,1,2,2-Tetrachloroethane	(3)	11.989	83	476632	48.231
122) Bromobenzene	(3)	12.009	156	371611	49.998
123) 1,2,3-Trichloropropane	(3)	12.028	110	143372	48.524
124) trans-1,4-Dichloro-2-Butene	(3)	12.034	53	426188	121.225
125) n-Propylbenzene	(3)	12.089	120	409229	50.770
126) 2-Chlorotoluene	(3)	12.160	126	350236	50.349
127) 1,3,5-Trimethylbenzene	(3)	12.221	120	609111	51.339
128) 4-Chlorotoluene	(3)	12.240	126	365404	50.345
130) tert-Butylbenzene	(3)	12.472	134	279401	51.425
131) Pentachloroethane	(3)	12.491	167	247192	52.766
132) 1,2,4-Trimethylbenzene	(3)	12.507	105	1285335	50.993
134) sec-Butylbenzene	(3)	12.636	134	319633	51.549
135) 1,3-Dichlorobenzene	(3)	12.722	146	702015	50.289
136) p-Isopropyltoluene	(3)	12.735	134	369023	52.049
137) *1,4-Dichlorobenzene-d4	(3)	12.767	152	516484	50.000
138) 1,4-Dichlorobenzene	(3)	12.787	146	734280	49.656
139) 1,2,3-Trimethylbenzene	(3)	12.819	120	586614	51.669
140) Benzyl Chloride	(3)	12.877	91	981094	50.397

* = Compound is an internal standard.

PTL03 8240

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29i03.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:23 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:09 kdp02245

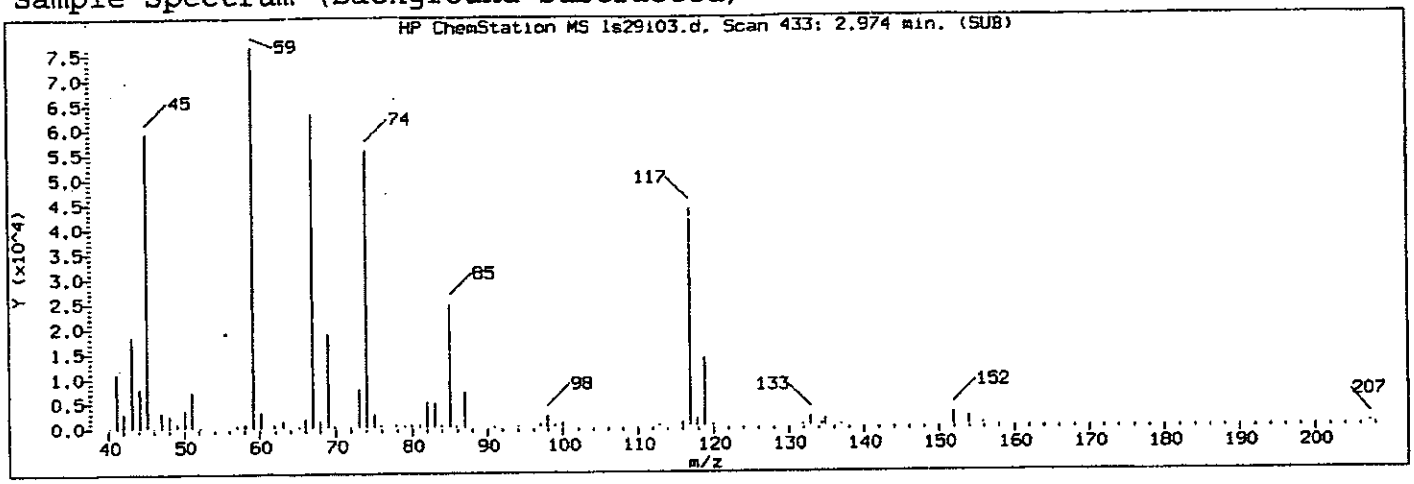
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
141) 1,3-Diethylbenzene	(3)	12.951	119	826973	52.195
142) 1,4-Diethylbenzene	(3)	13.012	119	820873	51.886
143) n-Butylbenzene	(3)	13.031	92	669942	51.445
144) 1,2-Dichlorobenzene	(3)	13.057	146	682377	49.750
145) 1,2-Diethylbenzene	(3)	13.098	119	683153	52.147
146) 1,2-Dibromo-3-Chloropropane	(3)	13.590	75	110878	49.799
147) 1,2,4-Trichlorobenzene	(3)	14.153	180	540146	50.070
148) Hexachlorobutadiene	(3)	14.256	225	256911	49.983
149) Naphthalene	(3)	14.320	128	1709507	50.348
150) 1,2,3-Trichlorobenzene	(3)	14.475	180	532157	50.000
152) 2-Methylnaphthalene	(3)	15.053	142	1116199	53.596
54) $Dibromofluoromethane	(1)	6.382	113	303235	49.558
55) $Dibromofluoromethane (mz111)	(1)	6.382	111	309895	49.646
64) $1,2-Dichloroethane-d4	(1)	6.848	102	72587	49.075
65) $1,2-Dichloroethane-d4 (mz65)	(1)	6.848	65	394504	49.042
66) $1,2-Dichloroethane-d4 (mz104)	(1)	6.848	104	46701M	49.444
91) $Toluene-d8	(2)	9.378	98	1151447	49.123
90) $Toluene-d8 (mz100)	(2)	9.378	100	743321	49.217
119) $4-Bromofluorobenzene	(2)	11.883	95	425935	49.436
118) $4-Bromofluorobenzene (mz174)	(2)	11.883	174	363070	49.675

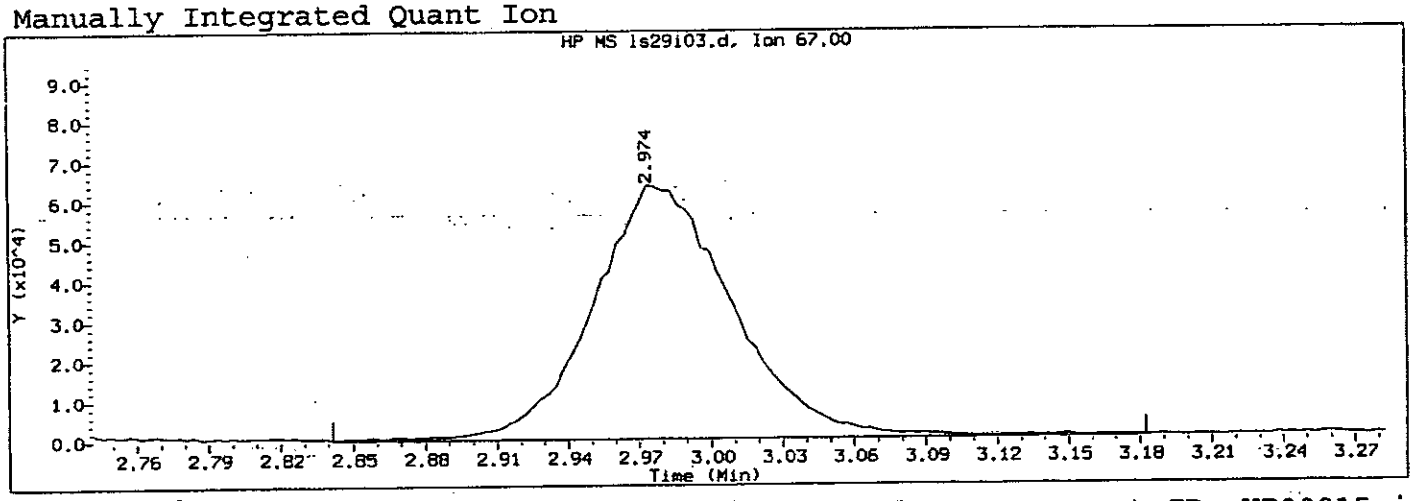
M = Compound was manually integrated.

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i03.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:23 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 30-SEP-2009 01:04
Date, time and analyst ID of latest file update: 30-Sep-2009 17:09 kdp02245

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	:	16
Compound Name	:	Freon 123a
Scan Number	:	433
Retention Time (minutes)	:	2.974
Quant Ion	:	67
Area (flag)	:	262494AM
Concentration (ug/L)	:	51.3584
Integration start scan	:	391 Integration stop scan: 497
Y at integration start	:	0 Y at integration end: 0

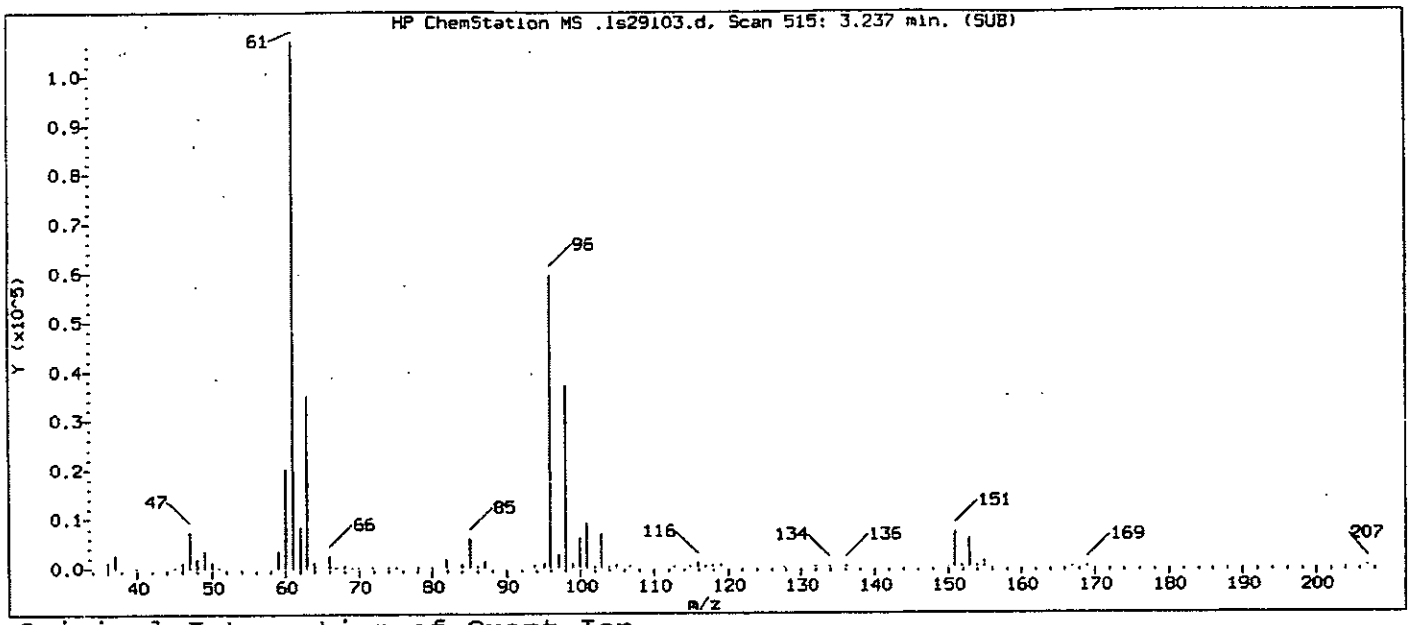
Reason for manual integration (circle one): missed peak (3) ~~improper integration~~

Analyst responsible for change: KDP02245 9/30/09

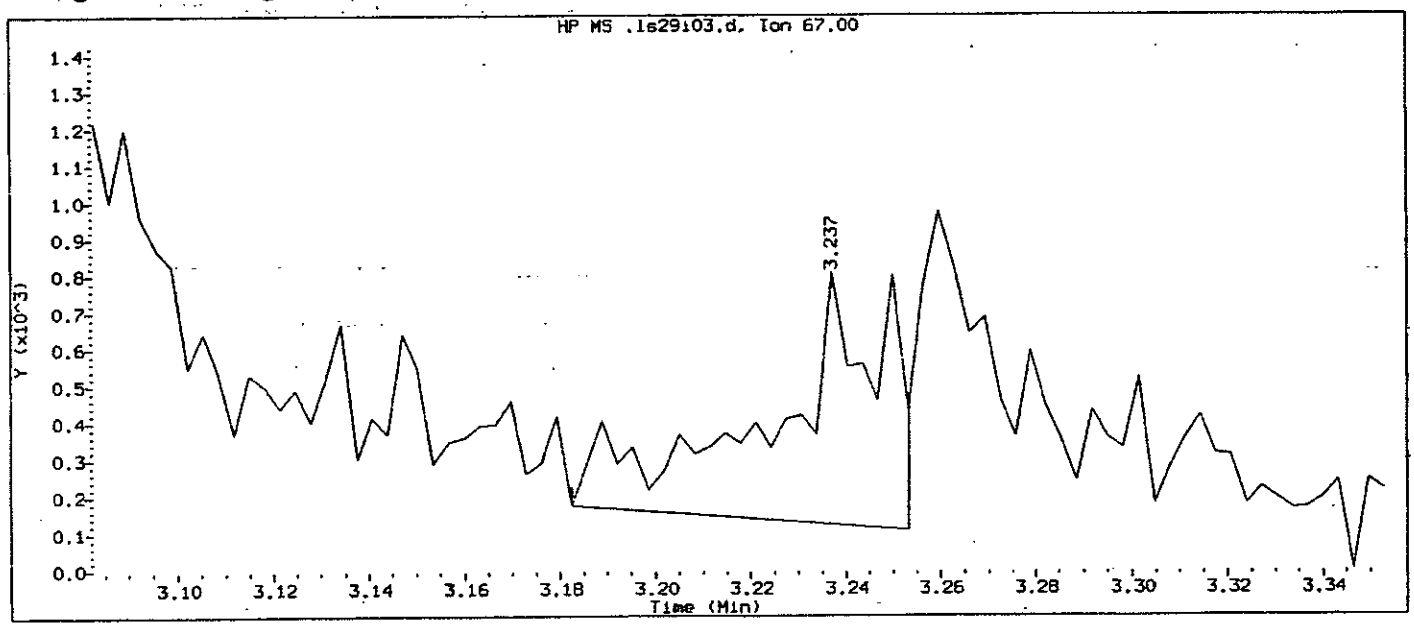
GC/MS audit/management approval: (3) 9-30-09

PTL03 0242

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i03.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:23 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 22:41
Date, time and analyst ID of latest file update: 29-Sep-2009 22:41 Automation

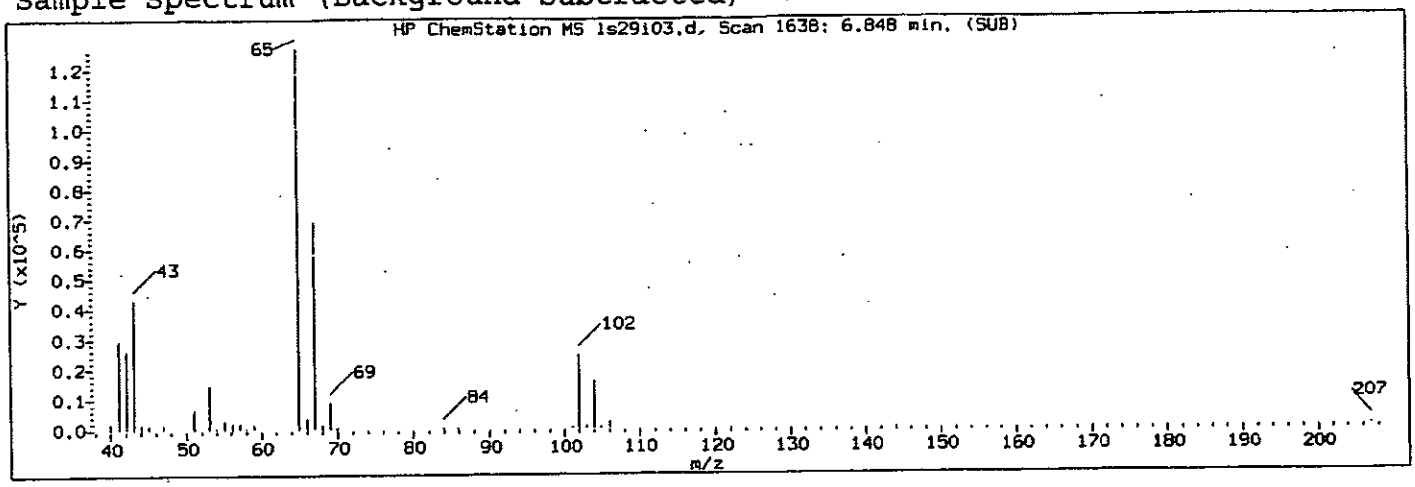
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 16
Compound Name	: Freon 123a
Scan Number	: 515
Retention Time (minutes)	: 3.237
Quant Ion	: 67
Area	: 1120
Concentration (ug/L)	: 37.4717
Integration start scan	: 497 Integration stop scan: 519
Y at integration start	: 176 Y at integration end: 108

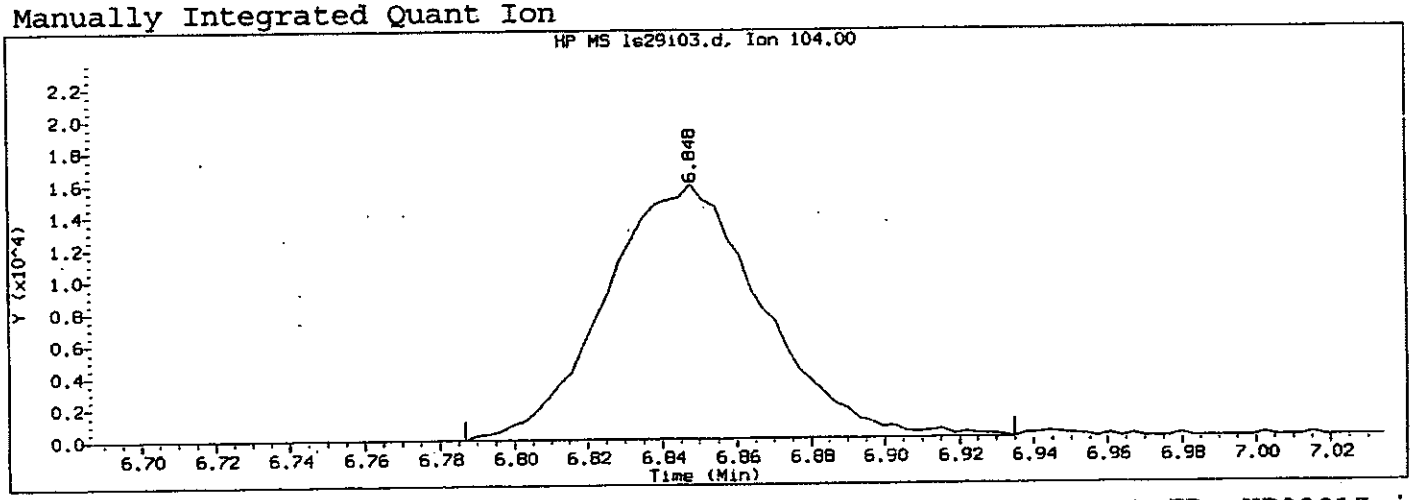
PTL83 0243

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i03.d, generated on 09/30/2009 at 17:09

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i03.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:23 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 30-SEP-2009 01:04
Date, time and analyst ID of latest file update: 30-Sep-2009 01:04 sas00403

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	:	66
Compound Name	:	1,2-Dichloroethane-d4(mz104)
Scan Number	:	1638
Retention Time (minutes)	:	6.848
Quant Ion	:	104
Area (flag)	:	46701 M
Concentration (ug/L)	:	49.4437
Integration start scan	:	1618 Integration stop scan: 1664
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

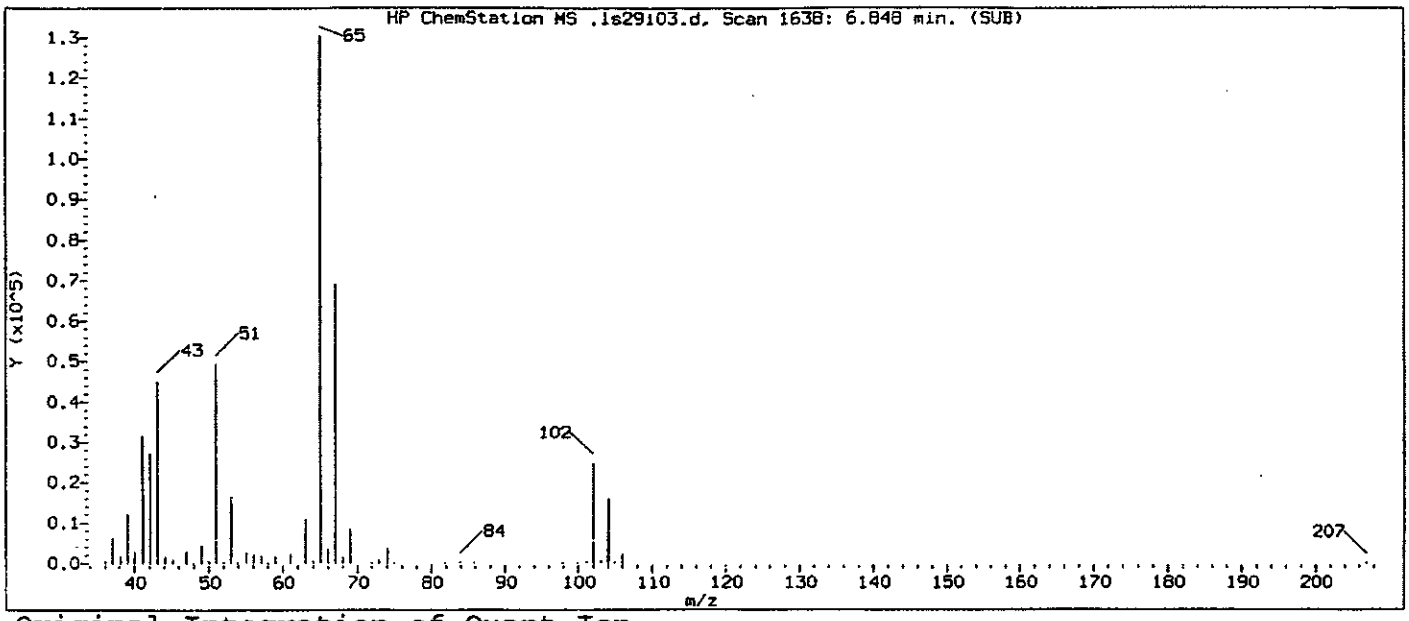
Analyst responsible for change: NAS/KDP 9/30/09

GC/MS audit/management approval: [signature] 9-30-09

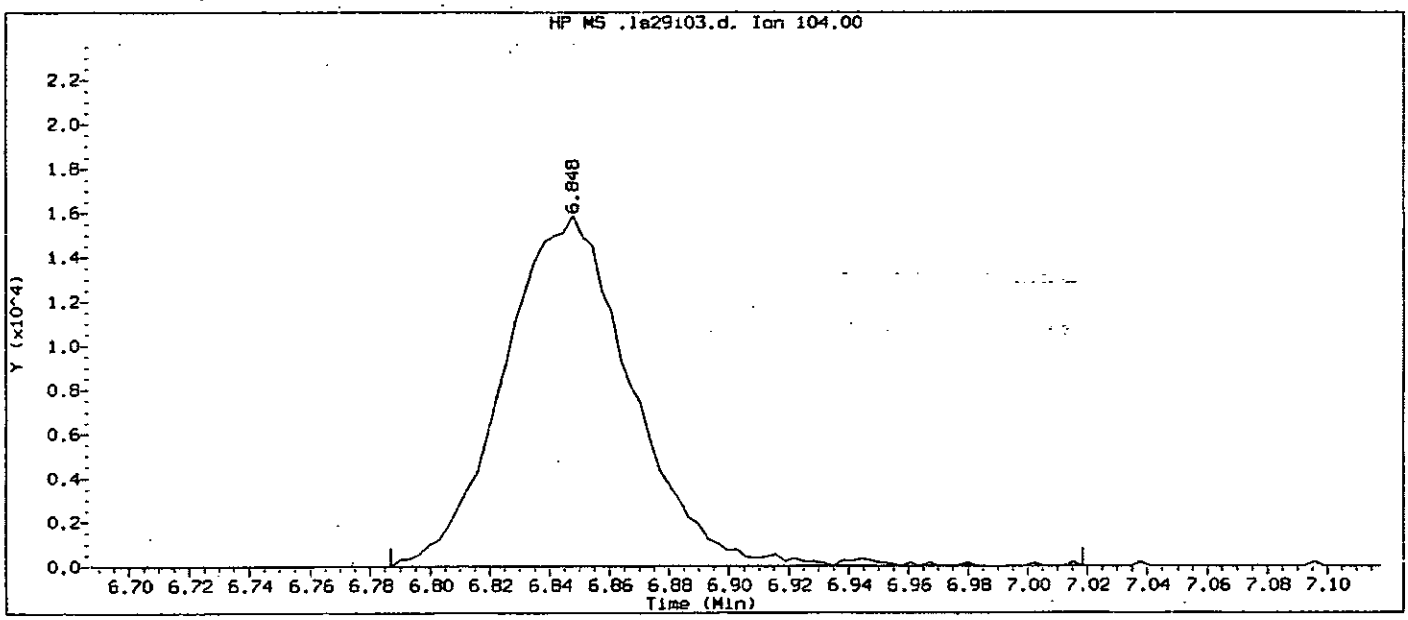
PTL83 0244

Manual Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i03.d, generated on 09/30/2009 at 01:05

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i03.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:23 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 22:41
Date, time and analyst ID of latest file update: 29-Sep-2009 22:41 Automation

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 66
Compound Name	: 1,2-Dichloroethane-d4(mz104)
Scan Number	: 1638
Retention Time (minutes)	: 6.848
Quant Ion	: 104
Area	: 47136
Concentration (ug/L)	: 49.3715
Integration start scan	: 1618 Integration stop scan: 1690
Y at integration start	: 0 Y at integration end: 0

PTL03 0245

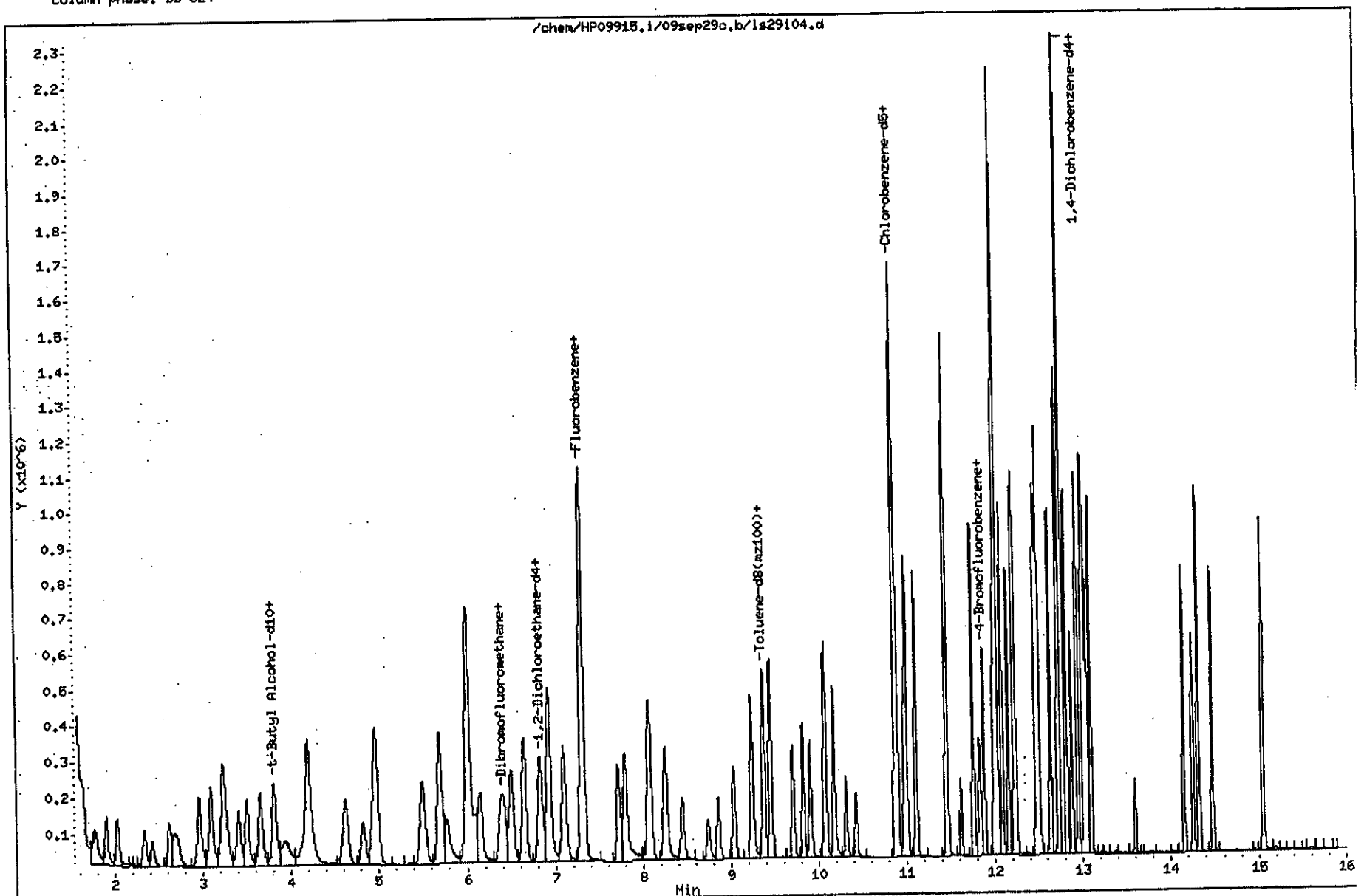
Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i03.d, generated on 09/30/2009 at 01:05

PTL# 8246

Data File: /chem/HP09915.i/09sep29c.b/ls29104.d
Date : 29-SEP-2009 22:48
Client ID: VSTD020
Sample Info: VSTD020;VSTD020;1;1;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.1

Operator: KDP02245
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29i04.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:45 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:11 kdp02245

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.774	85	203246	20.310
3) Chloromethane	(1)	1.903	50	186588	20.398
4) Vinyl Chloride	(1)	2.025	62	166496	20.041
8) Bromomethane	(1)	2.330	94	89345	19.772
9) Chloroethane	(1)	2.424	64	80973	21.161
10) Dichlorofluoromethane	(1)	2.617	67	177684	21.422
11) Trichlorofluoromethane	(1)	2.681	101	210784M	20.260
15) Ethyl Ether	(1)	2.954	59	90869	20.246
16) Freon 123a	(1)	2.967	67	105364 A	21.194
18) Acrolein	(4)	3.096	56	349960	212.183
19) 1,1-Dichloroethene	(1)	3.228	96	97658	20.848
20) Freon 113	(1)	3.247	101	107676	20.440
21) Acetone	(1)	3.263	43	104050	38.217
22) 2-Propanol	(4)	3.408	45	153210	218.635
23) Methyl Iodide	(1)	3.404	142	207827	21.459
24) Carbon Disulfide	(1)	3.498	76	392257	20.022
27) Allyl Chloride	(1)	3.655	41	184614	19.459
28) Methyl Acetate	(1)	3.671	43	153216	19.568
29) Methylene Chloride	(1)	3.806	84	132397	19.733
30) *t-Butyl Alcohol-d10	(4)	3.829	65	249445	250.000
31) t-Butyl Alcohol	(4)	3.935	59	206422	190.908
32) Acrylonitrile	(1)	4.125	53	79306	20.061
33) trans-1,2-Dichloroethene	(1)	4.189	96	117597	19.988
34) Methyl Tertiary Butyl Ether	(1)	4.199	73	432472	20.693
35) n-Hexane	(1)	4.620	57	192623M	20.142
42) 1,2-Dichloroethene (total)	(1)		96	244034	40.045
36) 1,1-Dichloroethane	(1)	4.826	63	228034	20.355
40) di-Isopropyl Ether	(1)	4.954	45	488206	20.466
41) 2-Chloro-1,3-Butadiene	(1)	4.970	53	200769	19.782
43) Ethyl t-Butyl Ether	(1)	5.504	59	425955	20.862
44) cis-1,2-Dichloroethene	(1)	5.684	96	126437	20.057
45) 2-Butanone	(1)	5.700	43	225588	40.381
46) 2,2-Dichloropropane	(1)	5.700	77	168682	19.722
47) Propionitrile	(4)	5.774	54	321042	201.289

M = Compound was manually integrated.
A = User selected an alternate hit.
* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29i04.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:45 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:11 kdp02245

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
50) Methacrylonitrile	(1)	6.002	67	399636	101.818
51) Bromochloromethane	(1)	6.025	128	58978	19.521
52) Tetrahydrofuran	(4)	6.089	71	45733	37.597
53) Chloroform	(1)	6.154	83	204964	20.193
57) 1,1,1-Trichloroethane	(1)	6.414	97	194229	19.939
60) Cyclohexane	(1)	6.501	56	224853	19.749
59) Cyclohexane (mz 84)	(1)	6.504	84	176901	19.763
58) Cyclohexane (mz 69)	(1)	6.501	69	64111	19.597
61) 1,1-Dichloropropene	(1)	6.645	75	164969	19.693
62) Carbon Tetrachloride	(1)	6.652	117	145935	19.499
63) Isobutyl Alcohol	(4)	6.825	41	216239	479.394
67) Benzene	(1)	6.928	78	491869	20.032
68) 1,2-Dichloroethane	(1)	6.944	62	188407	20.080
69) 1,2-Dichloroethane (mz 98)	(1)	6.944	98	14799	19.784
71) t-Amyl Methyl Ether	(1)	7.102	73	392792	20.680
72)*Fluorobenzene	(1)	7.308	96	1235127	50.000
74) n-Heptane	(1)	7.324	43	207248	19.824
75) n-Butanol	(4)	7.719	56	347255	973.337
76) Trichloroethene	(1)	7.800	95	121535	20.012
77) Methylcyclohexane	(1)	8.063	83	181601	19.187
78) Methylcyclohexane (mz98)	(1)	8.063	98	81052	19.047
79) 1,2-Dichloropropane	(1)	8.086	63	138561	20.221
80) Dibromomethane	(1)	8.237	93	86282	20.328
81) Methyl Methacrylate	(1)	8.263	69	128807	20.637
82) 1,4-Dioxane	(4)	8.260	88	46340	490.388
84) Bromodichloromethane	(1)	8.456	83	152833	20.159
85) 2-Nitropropane	(1)	8.742	41	102803	39.907
86) 2-Chloroethyl Vinyl Ether	(1)	8.858	63	100864M	19.274
87) cis-1,3-Dichloropropene	(1)	9.034	75	197746	19.885
89) 4-Methyl-2-Pentanone	(1)	9.240	43	487657	43.013
93) Toluene	(2)	9.456	92	287489	20.198
94) trans-1,3-Dichloropropene	(2)	9.703	75	197721	20.725
95) Ethyl Methacrylate	(2)	9.825	69	209365	21.219
96) 1,1,2-Trichloroethane	(2)	9.906	97	117069	21.079

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29i04.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:45 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:11 kdp02245

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
97) Tetrachloroethene	(2)	10.063	166	123061	19.896
98) 1,3-Dichloropropane	(2)	10.079	76	214940	20.899
100) 2-Hexanone	(2)	10.176	43	375739	43.629
102) Dibromochloromethane	(2)	10.311	129	126446	20.629
103) 1,2-Dibromoethane	(2)	10.423	107	129592	20.865
104) *Chlorobenzene-d5	(2)	10.874	117	870794	50.000
105) Chlorobenzene	(2)	10.902	112	334165	20.492
107) 1,1,1,2-Tetrachloroethane	(2)	10.976	131	115842	20.594
108) Ethylbenzene	(2)	11.005	91	565038	20.202
109) m+p-Xylene	(2)	11.108	106	223545	20.639
110) Xylene (Total)	(2)		106	439722	41.502
111) o-Xylene	(2)	11.452	106	216177	20.862
112) Styrene	(2)	11.462	104	364756	21.349
113) Bromoform	(2)	11.616	173	94408	20.499
115) Isopropylbenzene	(2)	11.761	105	557359	20.565
117) Cyclohexanone	(4)	11.832	55	165532	476.845
120) 1,1,2,2-Tetrachloroethane	(3)	11.989	83	197238	20.625
122) Bromobenzene	(3)	12.005	156	147768	20.545
123) 1,2,3-Trichloropropane	(3)	12.025	110	60452	21.143
124) trans-1,4-Dichloro-2-Butene	(3)	12.034	53	339499	99.790
125) n-Propylbenzene	(3)	12.086	120	159518	20.451
126) 2-Chlorotoluene	(3)	12.160	126	137662	20.450
127) 1,3,5-Trimethylbenzene	(3)	12.221	120	234446	20.420
128) 4-Chlorotoluene	(3)	12.240	126	143816	20.476
130) tert-Butylbenzene	(3)	12.472	134	107637	20.472
131) Pentachloroethane	(3)	12.491	167	90240	19.906
132) 1,2,4-Trimethylbenzene	(3)	12.504	105	499893	20.494
134) sec-Butylbenzene	(3)	12.632	134	121718	20.285
135) 1,3-Dichlorobenzene	(3)	12.722	146	277643	20.553
136) p-Isopropyltoluene	(3)	12.735	134	140309	20.450
137) *1,4-Dichlorobenzene-d4	(3)	12.767	152	499803	50.000
138) 1,4-Dichlorobenzene	(3)	12.783	146	291093	20.342
139) 1,2,3-Trimethylbenzene	(3)	12.819	120	216400	19.697
140) Benzyl Chloride	(3)	12.877	91	379869	20.164

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29i04.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:45 Analyst ID: KDP02245

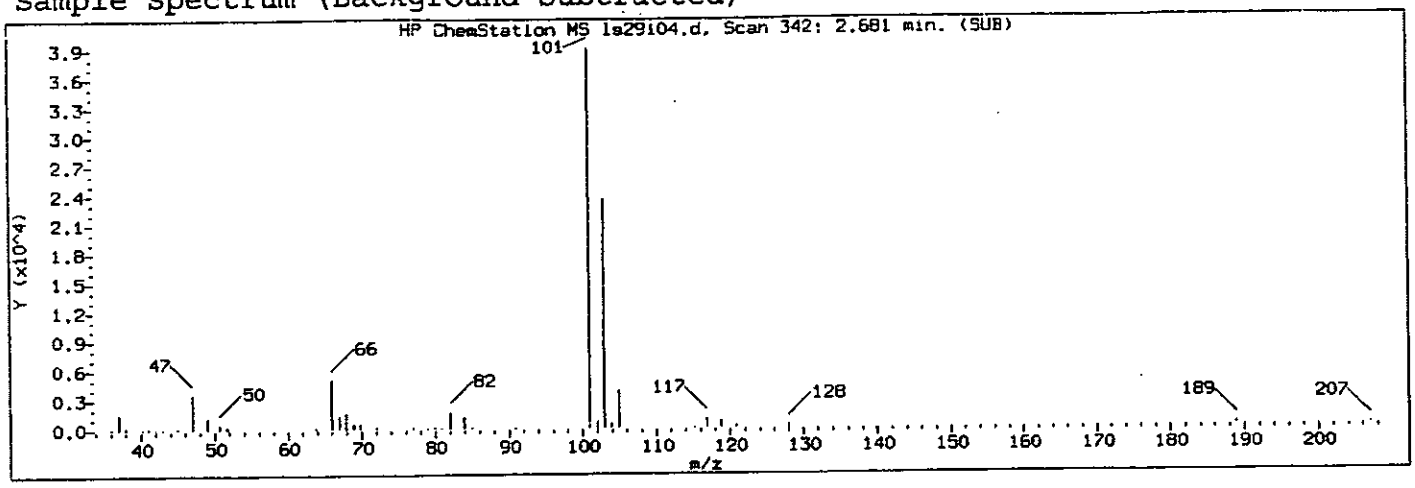
Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:11 kdp02245

Sample Name: VSTD020 Lab Sample ID: VSTD020

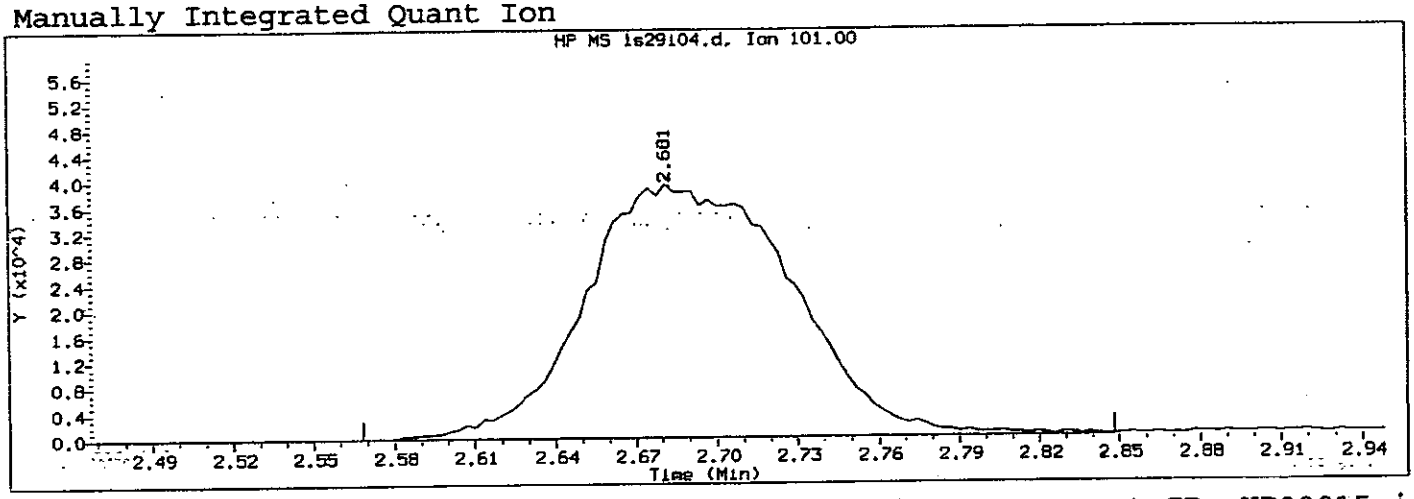
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
141) 1,3-Diethylbenzene	(3)	12.951	119	303194	19.775
142) 1,4-Diethylbenzene	(3)	13.012	119	303294	19.810
143) n-Butylbenzene	(3)	13.028	92	258299	20.497
144) 1,2-Dichlorobenzene	(3)	13.057	146	269583	20.310
145) 1,2-Diethylbenzene	(3)	13.099	119	252691	19.933
146) 1,2-Dibromo-3-Chloropropane	(3)	13.591	75	42058	19.520
147) 1,2,4-Trichlorobenzene	(3)	14.153	180	214949	20.590
148) Hexachlorobutadiene	(3)	14.256	225	101576	20.422
149) Naphthalene	(3)	14.320	128	675874	20.570
150) 1,2,3-Trichlorobenzene	(3)	14.475	180	211530	20.538
152) 2-Methylnaphthalene	(3)	15.053	142	410158	20.352
54)$Dibromofluoromethane	(1)	6.372	113	117081	19.672
55)$Dibromofluoromethane(mz111)	(1)	6.379	111	119848	19.739
64)$1,2-Dichloroethane-d4	(1)	6.835	102	28194	19.597
65)$1,2-Dichloroethane-d4(mz65)	(1)	6.832	65	156513	20.003
66)$1,2-Dichloroethane-d4(mz104)	(1)	6.842	104	17989	19.580
91)$Toluene-d8	(2)	9.378	98	453374	19.930
90)$Toluene-d8(mz100)	(2)	9.375	100	294742	20.109
119)$4-Bromofluorobenzene	(2)	11.883	95	168228	20.119
118)$4-Bromofluorobenzene(mz174)	(2)	11.883	174	144781	20.411

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i04.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:45 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 30-SEP-2009 01:04
Date, time and analyst ID of latest file update: 30-Sep-2009 17:11 kdp02245

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number	:	11
Compound Name	:	Trichlorofluoromethane
Scan Number	:	342
Retention Time (minutes)	:	2.681
Quant Ion	:	101
Area (flag)	:	210784 M
Concentration (ug/L)	:	20.2599
Integration start scan	:	306 Integration stop scan: 393
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

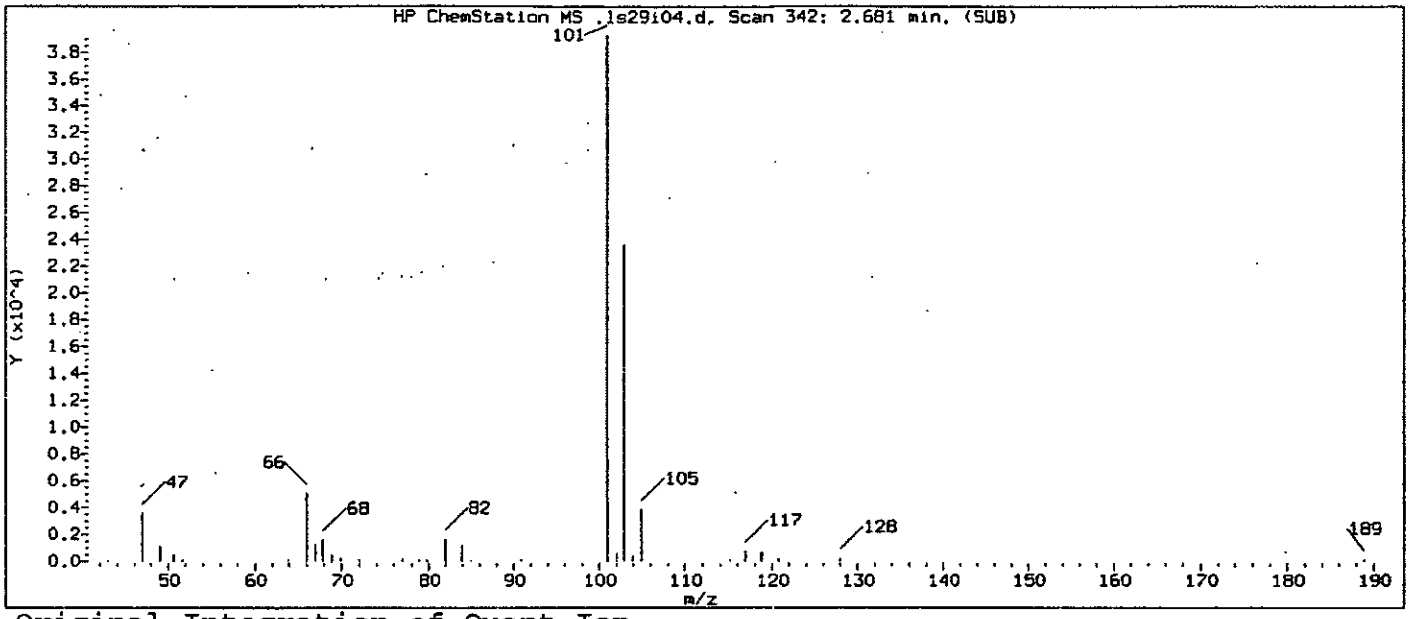
Analyst responsible for change: KDP 2245 9/30/09

GC/MS audit/management approval: [signature] 9-30-09

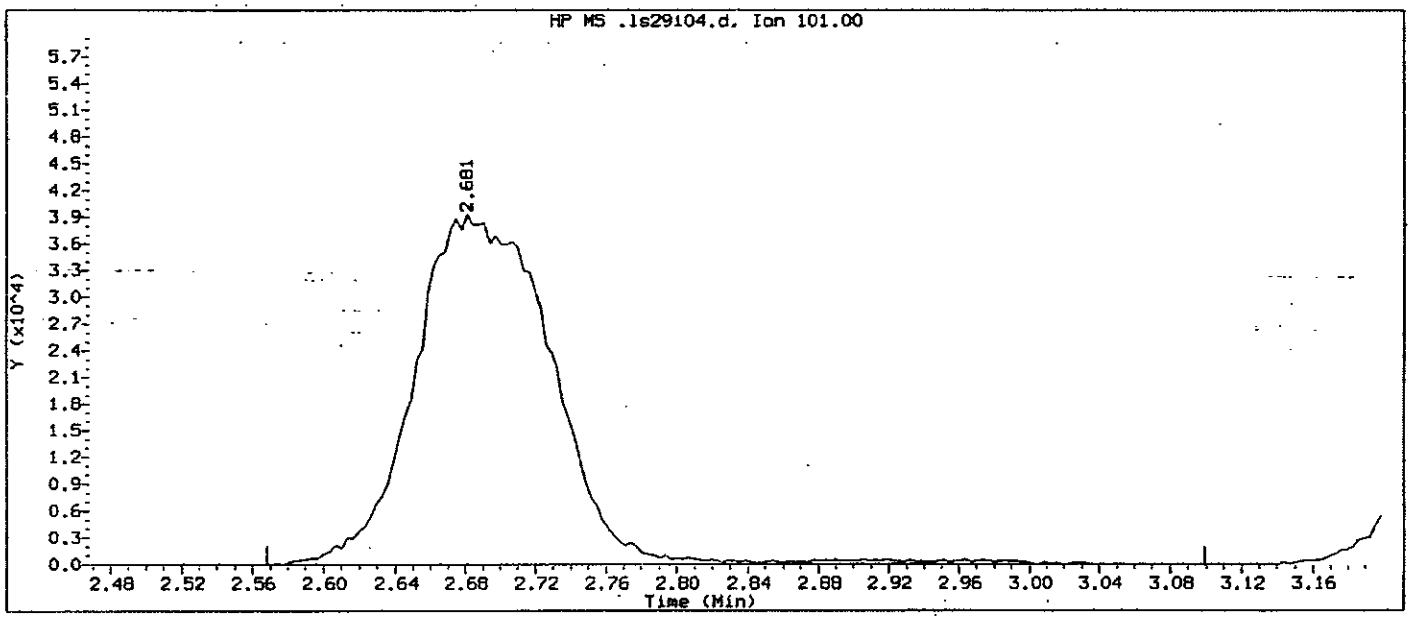
PTL03 0251

Manual Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i04.d, generated on 09/30/2009 at 17:11

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i04.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:45 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 23:03
Date, time and analyst ID of latest file update: 29-Sep-2009 23:03 Automation

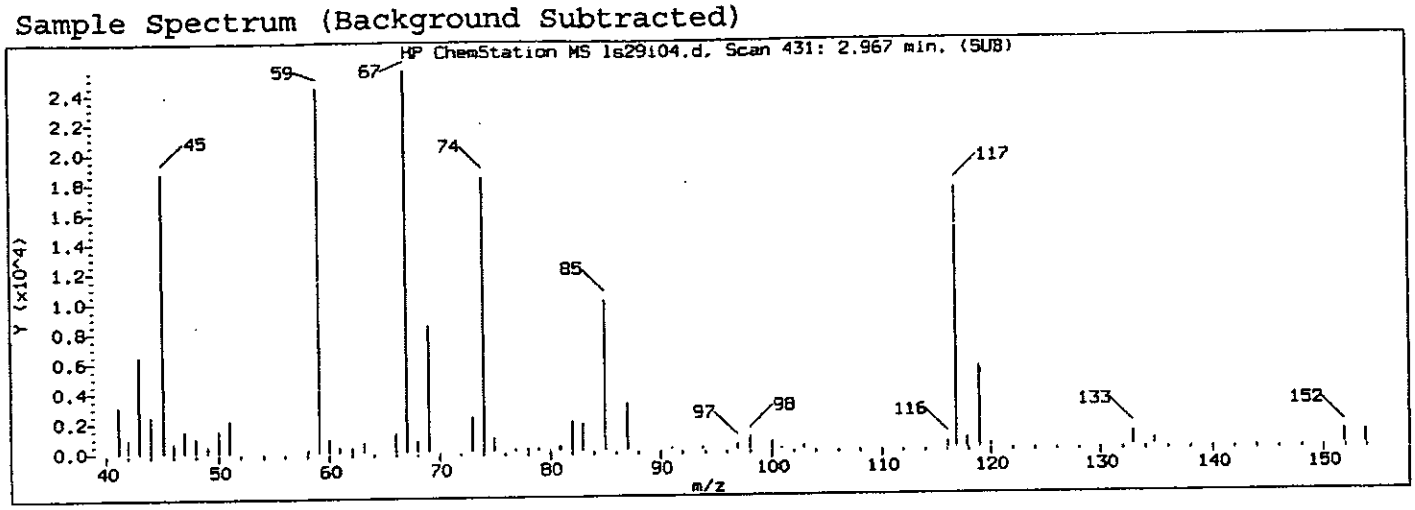
Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number	:	11
Compound Name	:	Trichlorofluoromethane
Scan Number	:	342
Retention Time (minutes)	:	2.681
Quant Ion	:	101
Area	:	214356
Concentration (ug/L)	:	20.6355
Integration start scan	:	306 Integration stop scan: 471
Y at integration start	:	0 Y at integration end: 0

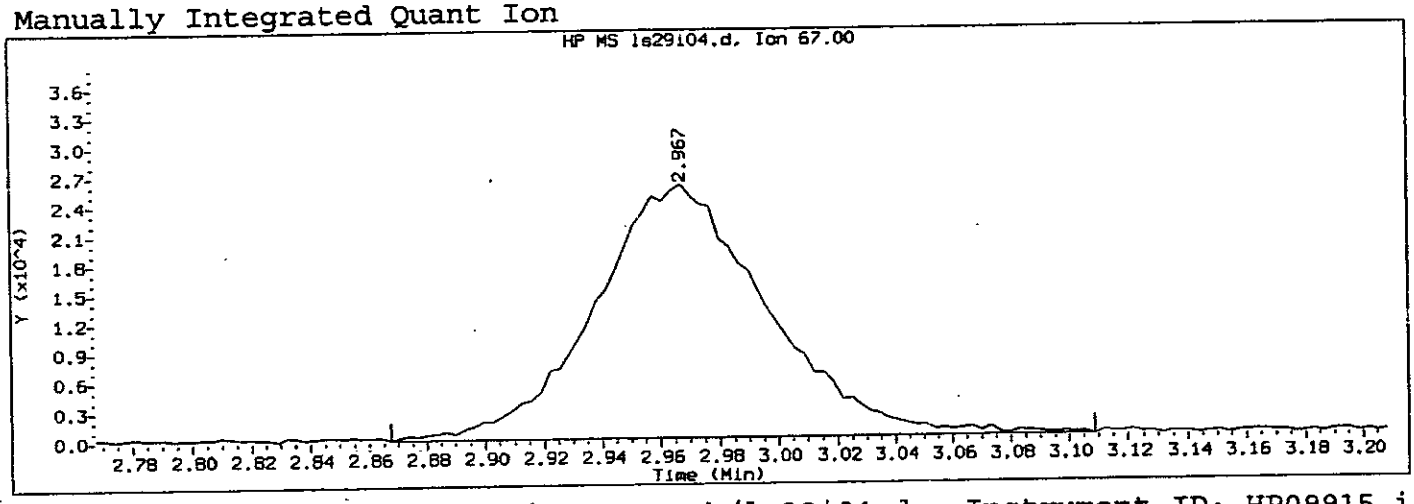
PTL03 0252

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i04.d, generated on 09/30/2009 at 17:11

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i04.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:45 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 30-SEP-2009 01:04
Date, time and analyst ID of latest file update: 30-Sep-2009 01:04 sas00403

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 16
Compound Name : Freon 123a
Scan Number : 431
Retention Time (minutes): 2.967
Quant Ion : 67
Area (flag) : 105364A
Concentration (ug/L) : 25.7615
Integration start scan : 399 Integration stop scan: 474
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

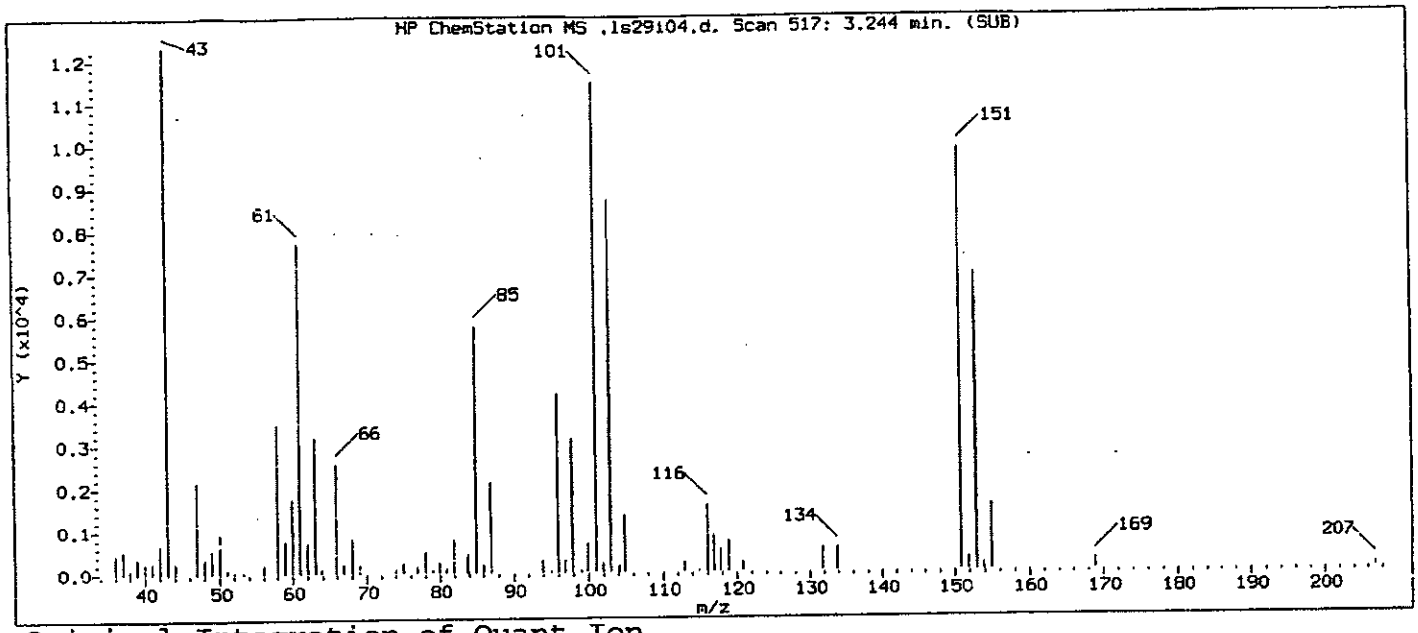
Analyst responsible for change: [signature] 9/30/09

GC/MS audit/management approval: [signature] 9-30-09

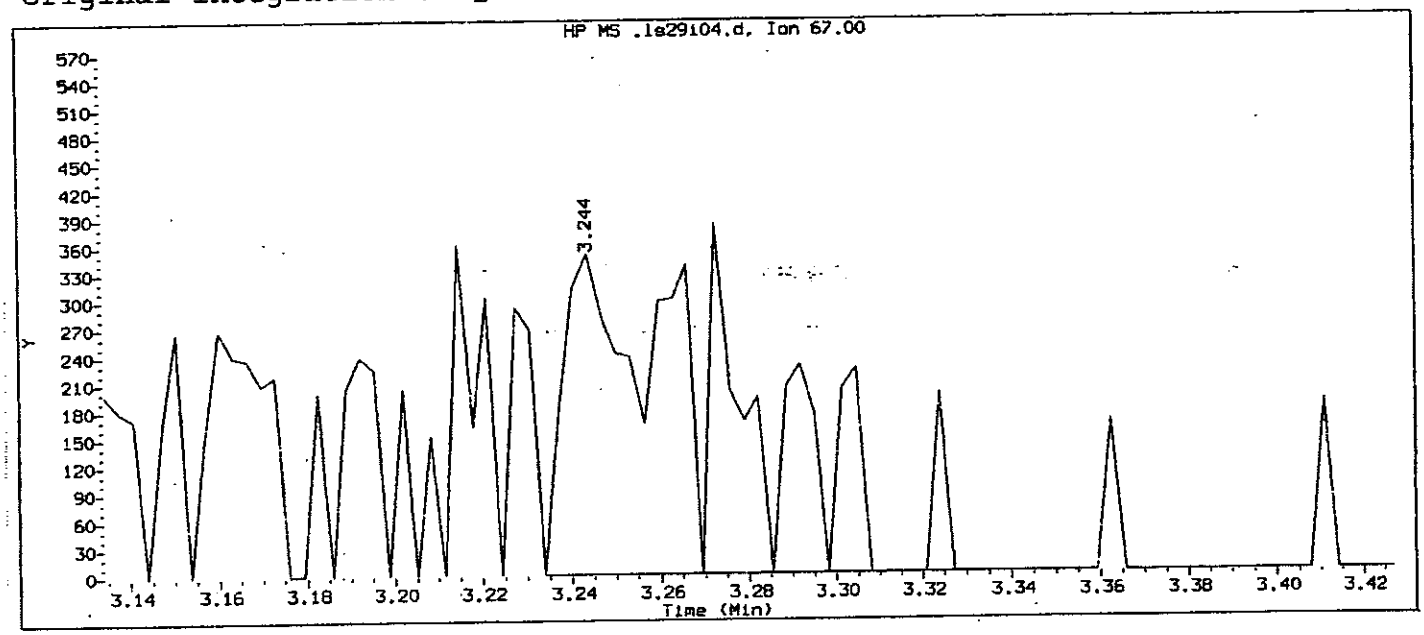
PTL83 0253

Manual Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i04.d, generated on 09/30/2009 at 01:04

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i04.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:45 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 23:03
Date, time and analyst ID of latest file update: 29-Sep-2009 23:03 Automation

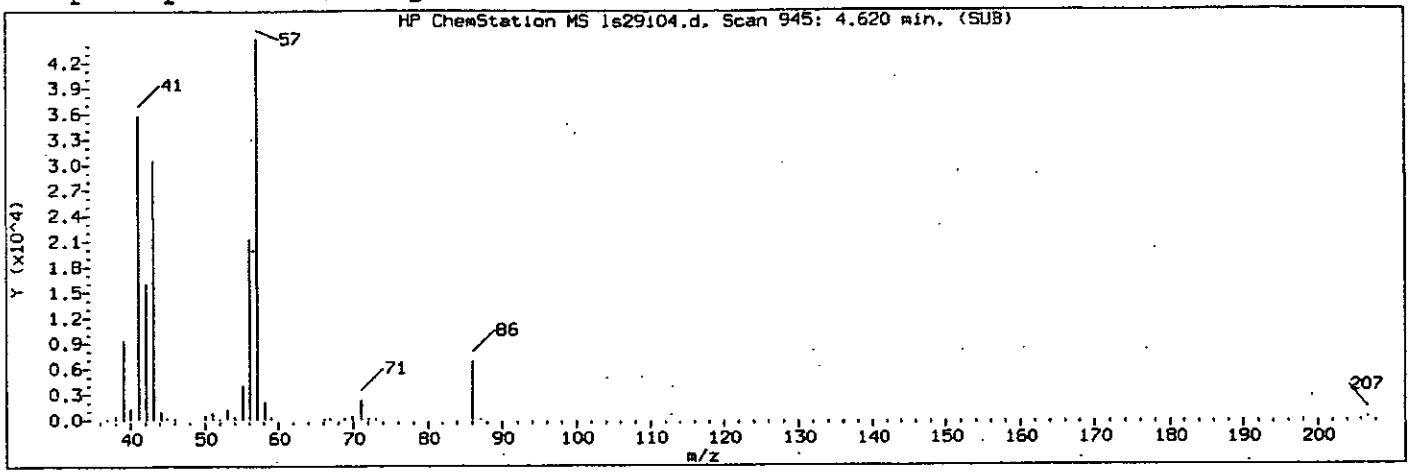
Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number	:	16
Compound Name	:	Freon 123a
Scan Number	:	517
Retention Time (minutes)	:	3.244
Quant Ion	:	67
Area	:	939
Concentration (ug/L)	:	27.9950
Integration start scan	:	513
Integration stop scan	:	542
Y at integration start	:	0
Y at integration end	:	0

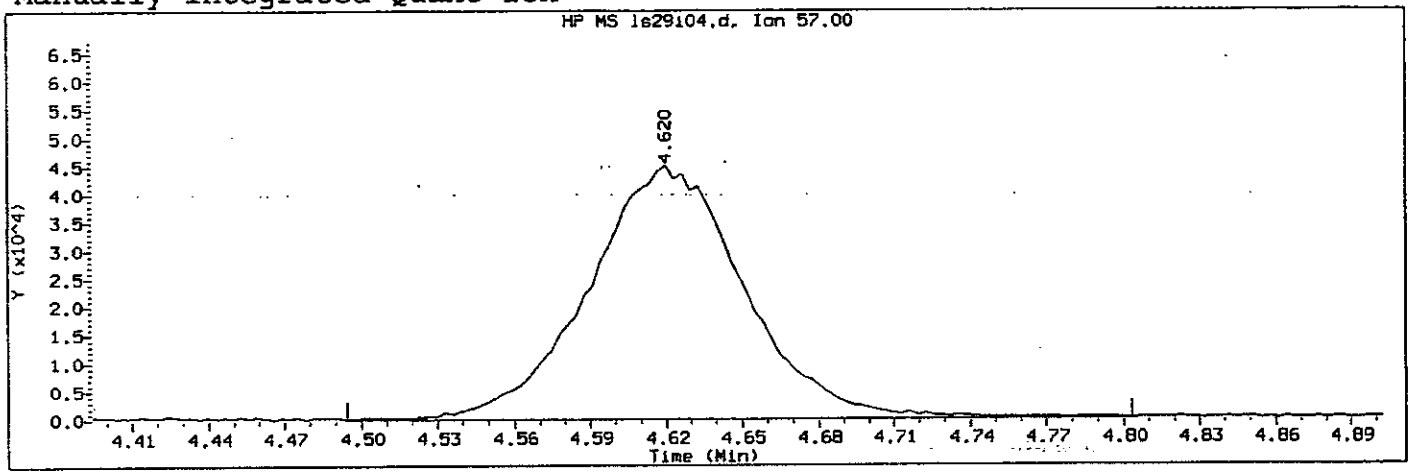
PTL03 #254

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i04.d, generated on 09/30/2009 at 01:04

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i04.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:45 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 30-SEP-2009 01:04
Date, time and analyst ID of latest file update: 30-Sep-2009 17:11 kdp02245

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number	:	35
Compound Name	:	n-Hexane
Scan Number	:	945
Retention Time (minutes)	:	4.620
Quant Ion	:	57
Area (flag)	:	192623 M
Concentration (ug/L)	:	20.1424
Integration start scan	:	905 Integration stop scan: 1001
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

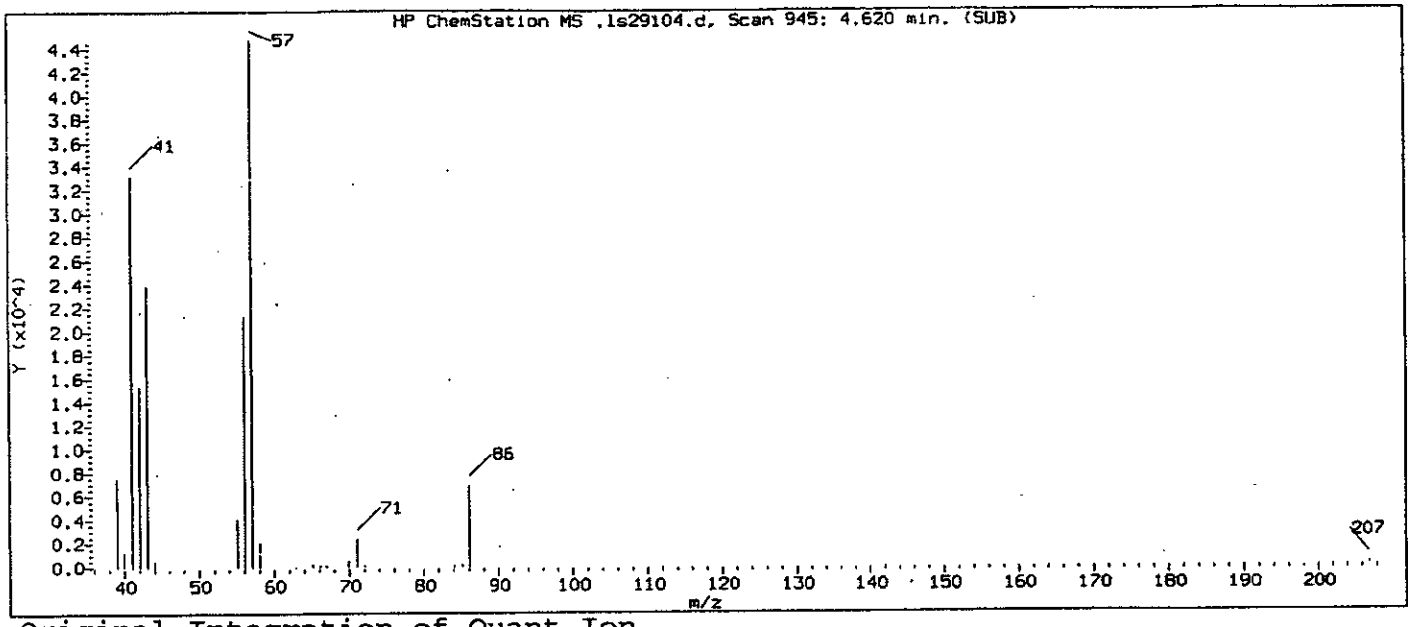
Analyst responsible for change: KDP 2245 9/30/09

GC/MS audit/management approval: [signature] 9-30-09

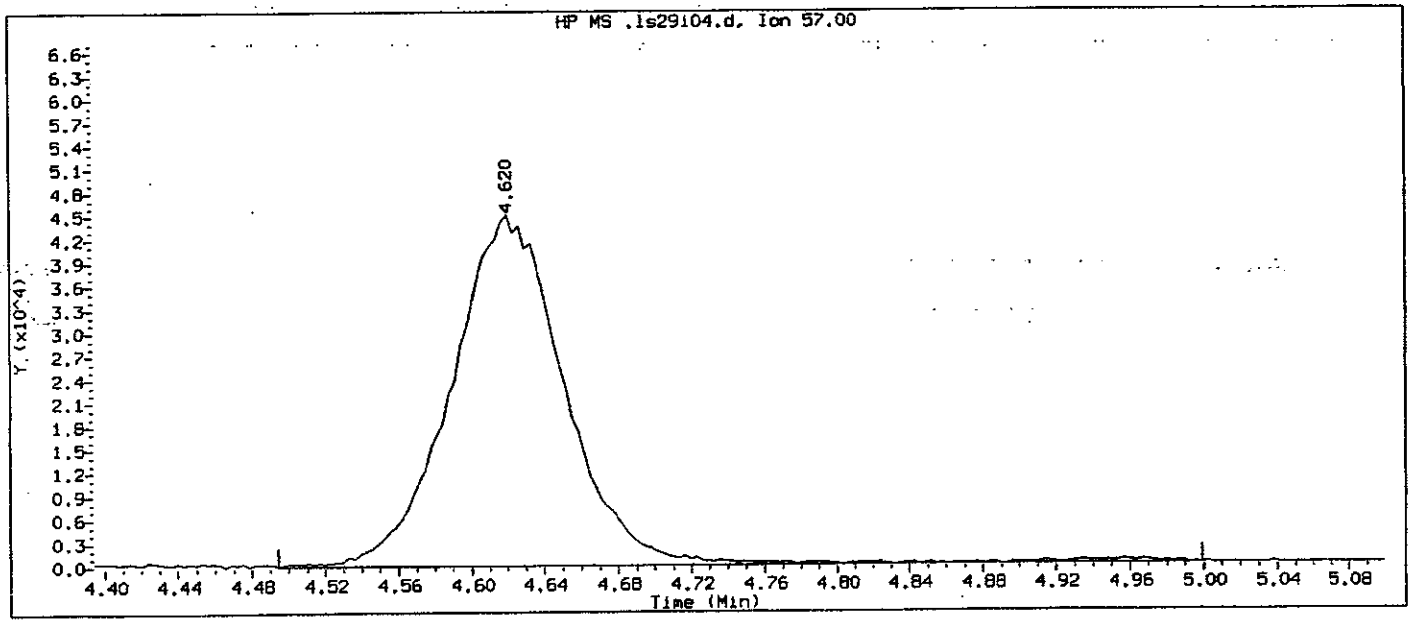
PTL03 0255

Manual Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i04.d, generated on 09/30/2009 at 17:11

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i04.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:45 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 23:03
Date, time and analyst ID of latest file update: 29-Sep-2009 23:03 Automation

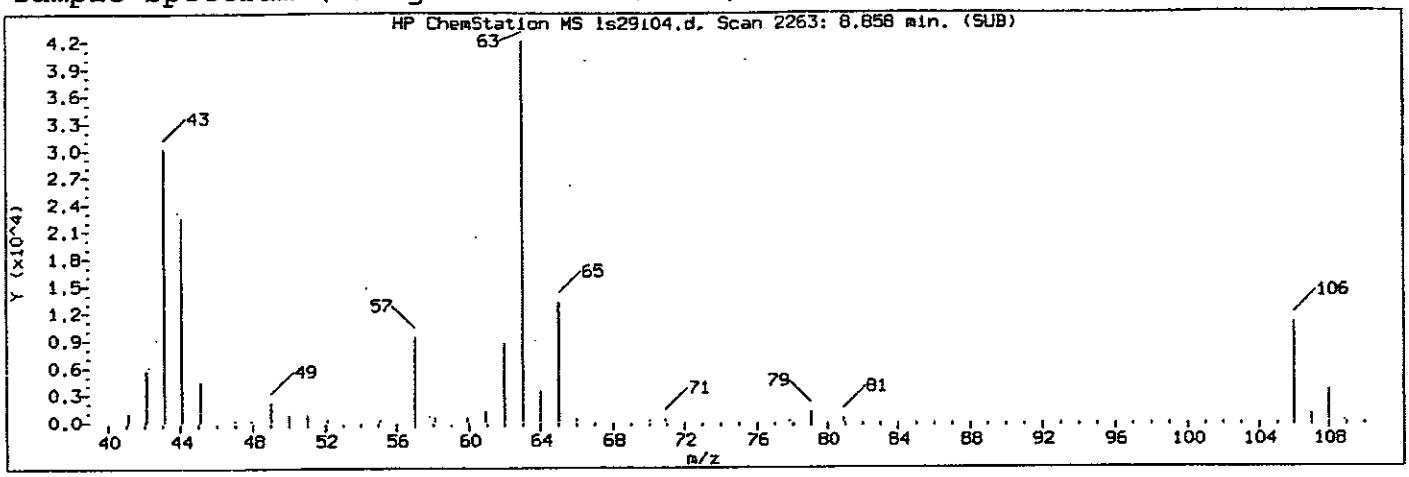
Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 35
Compound Name : n-Hexane
Scan Number : 945
Retention Time (minutes): 4.620
Quant Ion : 57
Area : 195450
Concentration (ug/L) : 19.8259
Integration start scan : 905 Integration stop scan: 1062
Y at integration start : 0 Y at integration end: 0

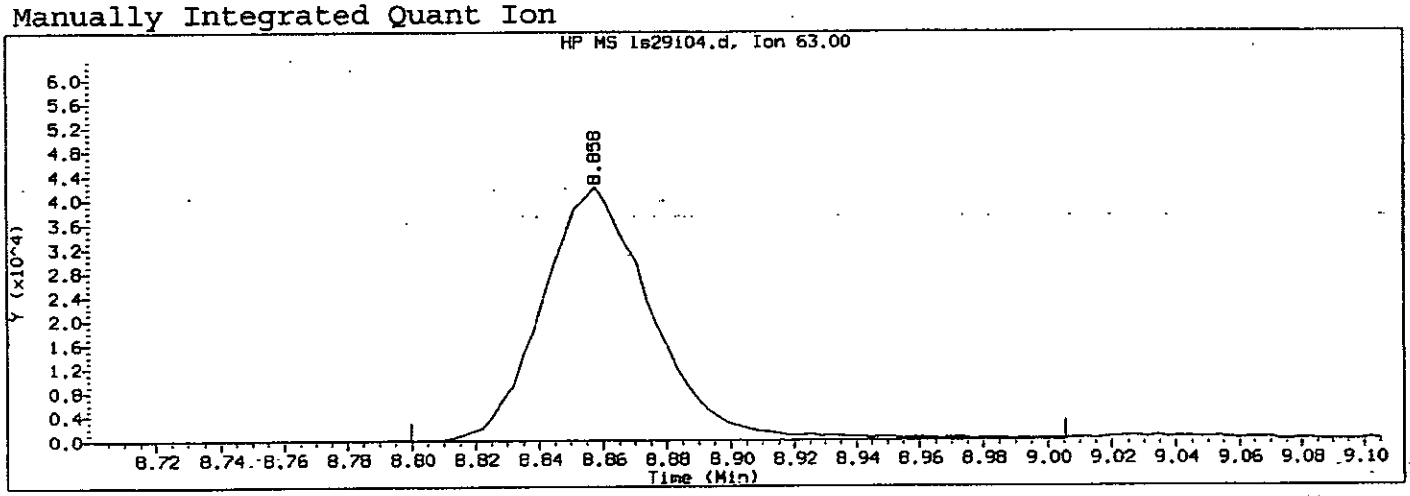
PTL03 8256

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i04.d, generated on 09/30/2009 at 17:11

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i04.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:45 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 30-SEP-2009 01:04
Date, time and analyst ID of latest file update: 30-Sep-2009 17:11 kdp02245

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number	:	86
Compound Name	:	2-Chloroethyl Vinyl Ether
Scan Number	:	2263
Retention Time (minutes)	:	8.858
Quant Ion	:	63
Area (flag)	:	100864 M
Concentration (ug/L)	:	19.2738
Integration start scan	:	2244 Integration stop scan: 2308
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

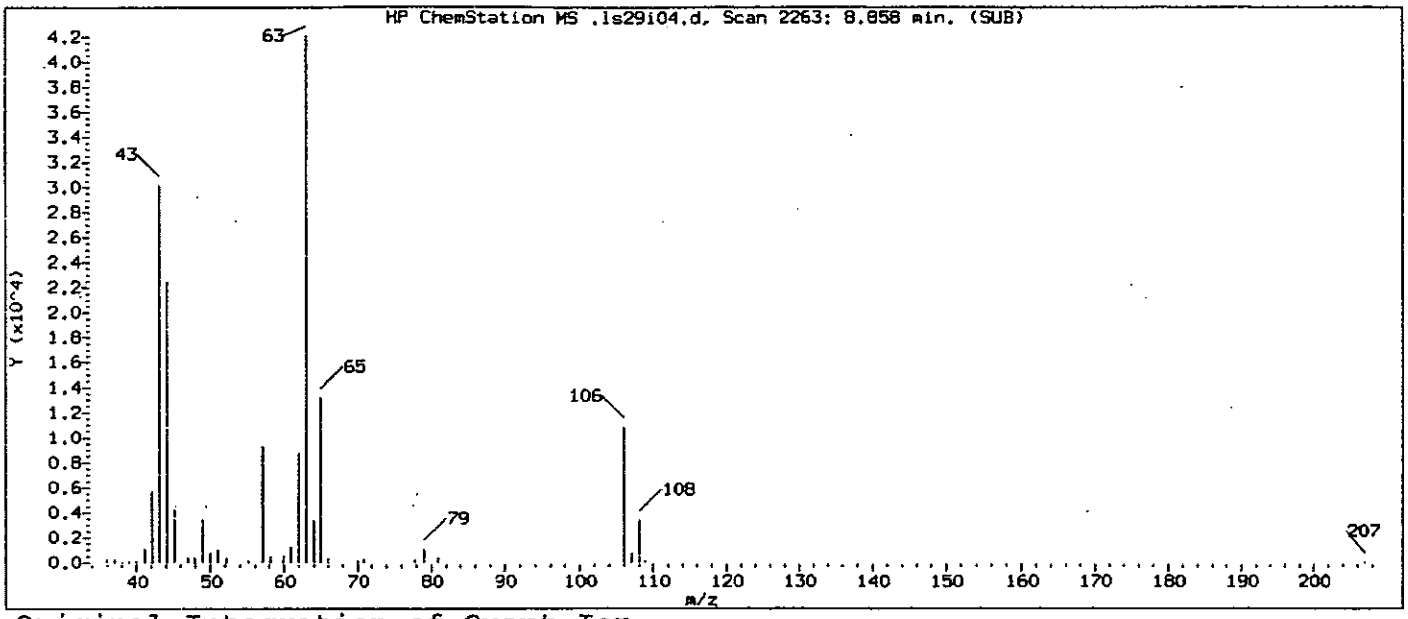
Analyst responsible for change: KDP02245 9/30/09

GC/MS audit/management approval: 9-30-09

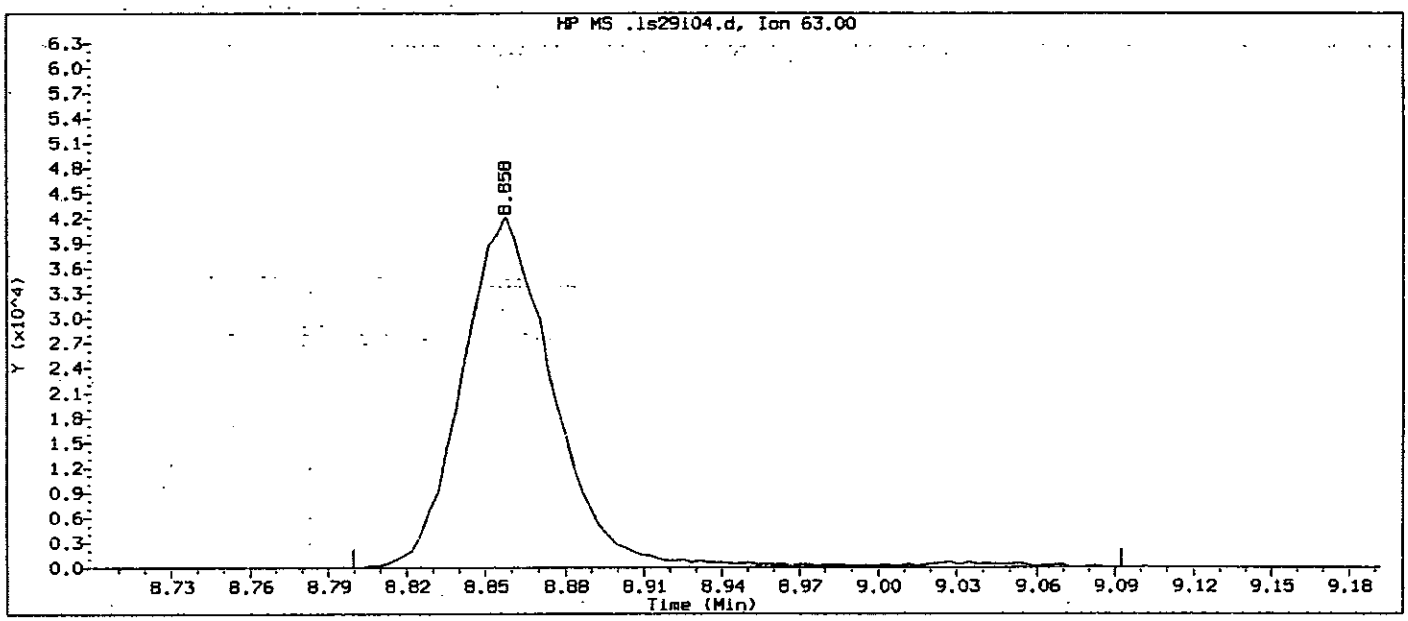
PTL83 0257

Manual Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i04.d, generated on 09/30/2009 at 17:11

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i04.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 22:45 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 23:03
Date, time and analyst ID of latest file update: 29-Sep-2009 23:03 Automation

Sample Name: VSTD020 Lab Sample ID: VSTD020

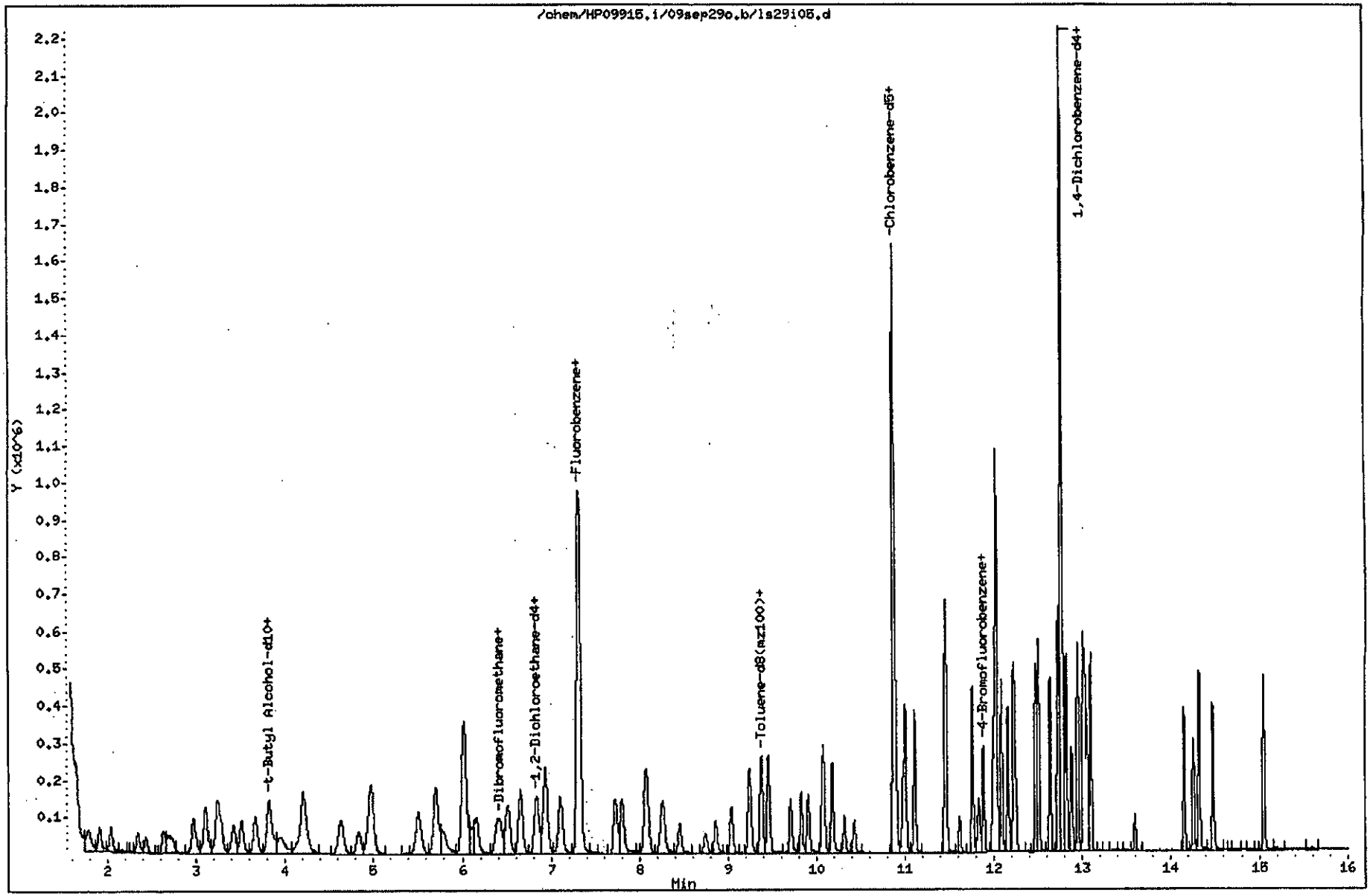
Compound Number	:	86
Compound Name	:	2-Chloroethyl Vinyl Ether
Scan Number	:	2263
Retention Time (minutes)	:	8.858
Quant Ion	:	63
Area	:	102503
Concentration (ug/L)	:	18.6579
Integration start scan	:	2244 Integration stop scan: 2335
Y at integration start	:	0 Y at integration end: 0

PTL03 0258

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i04.d, generated on 09/30/2009 at 17:11

Data File: /chem/HP09915.i/09sep29o.b/ls29i05.d
Date : 29-SEP-2009 23:07
Client ID: VSTD010
Sample Info: VSTD010;VSTD010;1;1;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i
Operator: KBP02245
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29i05.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:07 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:12 kdp02245

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.784	85	103151	10.340
3) Chloromethane	(1)	1.906	50	89035	9.764
4) Vinyl Chloride	(1)	2.035	62	82442	9.955
8) Bromomethane	(1)	2.337	94	45771	9.714
9) Chloroethane	(1)	2.430	64	43213	11.328
10) Dichlorofluoromethane	(1)	2.630	67	83523	10.102
11) Trichlorofluoromethane	(1)	2.700	101	108736	10.484
15) Ethyl Ether	(1)	2.961	59	45035	10.066
16) Freon 123a	(1)	2.977	67	48582 A	9.803
18) Acrolein	(4)	3.109	56	192998	132.092
19) 1,1-Dichloroethene	(1)	3.241	96	46290	9.913
20) Freon 113	(1)	3.266	101	51971	9.897
21) Acetone	(1)	3.276	43	59193	21.810
22) 2-Propanol	(4)	3.417	45	73138	122.081
23) Methyl Iodide	(1)	3.417	142	99422	10.298
24) Carbon Disulfide	(1)	3.514	76	186131	9.530
27) Allyl Chloride	(1)	3.662	41	94890	10.033
28) Methyl Acetate	(1)	3.678	43	81750	10.474
29) Methylene Chloride	(1)	3.822	84	69561	10.400
30) *t-Butyl Alcohol-d10	(4)	3.842	65	213256	250.000
31) t-Butyl Alcohol	(4)	3.951	59	110136M	119.144
32) Acrylonitrile	(1)	4.144	53	40776	10.347
33) trans-1,2-Dichloroethene	(1)	4.199	96	58273	9.936
34) Methyl Tertiary Butyl Ether	(1)	4.221	73	203448	9.765
35) n-Hexane	(1)	4.630	57	91198	9.566
42) 1,2-Dichloroethene (total)	(1)		96	120293	19.805
36) 1,1-Dichloroethane	(1)	4.832	63	112627	10.085
40) di-Isopropyl Ether	(1)	4.961	45	235791	9.916
41) 2-Chloro-1,3-Butadiene	(1)	4.983	53	96816	9.570
43) Ethyl t-Butyl Ether	(1)	5.511	59	198693M	9.762
44) cis-1,2-Dichloroethene	(1)	5.697	96	62020	9.869
45) 2-Butanone	(1)	5.720	43	114000	20.470
46) 2,2-Dichloropropane	(1)	5.710	77	80582	9.451
47) Propionitrile	(4)	5.787	54	144655	106.088

M = Compound was manually integrated.
A = User selected an alternate hit.
* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29i05.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:07 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:12 kdp02245

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
50) Methacrylonitrile	(1)	6.019	67	191121	48.846
51) Bromochloromethane	(1)	6.038	128	30736	10.205
52) Tetrahydrofuran	(4)	6.102	71	24958	23.999
53) Chloroform	(1)	6.163	83	99369	9.820
57) 1,1,1-Trichloroethane	(1)	6.420	97	92195	9.494
60) Cyclohexane	(1)	6.507	56	106401	9.375
59) Cyclohexane (mz 84)	(1)	6.510	84	84866	9.511
58) Cyclohexane (mz 69)	(1)	6.510	69	31023	9.513
61) 1,1-Dichloropropene	(1)	6.655	75	78798	9.436
62) Carbon Tetrachloride	(1)	6.658	117	68530	9.185
63) Isobutyl Alcohol	(4)	6.822	41	105755	274.242
67) Benzene	(1)	6.935	78	239963	9.803
68) 1,2-Dichloroethane	(1)	6.945	62	89956	9.617
69) 1,2-Dichloroethane (mz 98)	(1)	6.941	98	7614	10.211
71) t-Amyl Methyl Ether	(1)	7.105	73	182142	9.620
72) *Fluorobenzene	(1)	7.314	96	1231253	50.000
74) n-Heptane	(1)	7.327	43	97699	9.375
75) n-Butanol	(4)	7.726	56	155944	511.278
76) Trichloroethene	(1)	7.803	95	58546	9.671
77) Methylcyclohexane	(1)	8.073	83	91642	9.713
78) Methylcyclohexane (mz98)	(1)	8.067	98	41880	9.873
79) 1,2-Dichloropropane	(1)	8.089	63	65544	9.595
80) Dibromomethane	(1)	8.240	93	40558	9.586
81) Methyl Methacrylate	(1)	8.272	69	58661	9.428
82) 1,4-Dioxane	(4)	8.269	88	19025	235.495
84) Bromodichloromethane	(1)	8.453	83	68894	9.116
85) 2-Nitropropane	(1)	8.745	41	46661	18.170
86) 2-Chloroethyl Vinyl Ether	(1)	8.864	63	50058	9.596
87) cis-1,3-Dichloropropene	(1)	9.041	75	89861	9.065
89) 4-Methyl-2-Pentanone	(1)	9.247	43	230119	20.361
93) Toluene	(2)	9.459	92	136401	9.685
94) trans-1,3-Dichloropropene	(2)	9.710	75	87906	9.312
95) Ethyl Methacrylate	(2)	9.829	69	90890	9.309
96) 1,1,2-Trichloroethane	(2)	9.906	97	53651	9.762

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29i05.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:07 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:12 kdp02245

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
97) Tetrachloroethene	(2)	10.067	166	58992	9.638
98) 1,3-Dichloropropane	(2)	10.083	76	98136	9.643
100) 2-Hexanone	(2)	10.176	43	186679	21.906
102) Dibromochloromethane	(2)	10.311	129	54592	9.001
103) 1,2-Dibromoethane	(2)	10.427	107	58814	9.570
104) *Chlorobenzene-d5	(2)	10.874	117	861680	50.000
105) Chlorobenzene	(2)	10.903	112	159442	9.881
107) 1,1,1,2-Tetrachloroethane	(2)	10.977	131	51987	9.340
108) Ethylbenzene	(2)	11.005	91	266384	9.625
109) m+p-Xylene	(2)	11.112	106	104131	9.716
110) Xylene (Total)	(2)		106	206645	19.714
111) o-Xylene	(2)	11.452	106	102514	9.998
112) Styrene	(2)	11.465	104	166832	9.868
113) Bromoform	(2)	11.616	173	41240	9.049
115) Isopropylbenzene	(2)	11.761	105	263854	9.838
117) Cyclohexanone	(4)	11.832	55	64150	216.155
120) 1,1,2,2-Tetrachloroethane	(3)	11.989	83	93496M	9.979
122) Bromobenzene	(3)	12.009	156	72112	10.189
123) 1,2,3-Trichloropropane	(3)	12.025	110	28059	9.973
124) trans-1,4-Dichloro-2-Butene	(3)	12.031	53	164161	49.034
125) n-Propylbenzene	(3)	12.089	120	74378	9.690
126) 2-Chlorotoluene	(3)	12.160	126	64576	9.749
127) 1,3,5-Trimethylbenzene	(3)	12.221	120	110978	9.823
128) 4-Chlorotoluene	(3)	12.240	126	68795	9.954
130) tert-Butylbenzene	(3)	12.472	134	50800	9.819
131) Pentachloroethane	(3)	12.491	167	43920	9.845
132) 1,2,4-Trimethylbenzene	(3)	12.507	105	236486	9.852
134) sec-Butylbenzene	(3)	12.636	134	57402	9.722
135) 1,3-Dichlorobenzene	(3)	12.722	146	134222	10.097
136) p-Isopropyltoluene	(3)	12.735	134	65751	9.739
137) *1,4-Dichlorobenzene-d4	(3)	12.767	152	491830	50.000
138) 1,4-Dichlorobenzene	(3)	12.787	146	141868	10.075
139) 1,2,3-Trimethylbenzene	(3)	12.819	120	110663	10.236
140) Benzyl Chloride	(3)	12.880	91	171261	9.238

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29i05.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:07 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:12 kdp02245

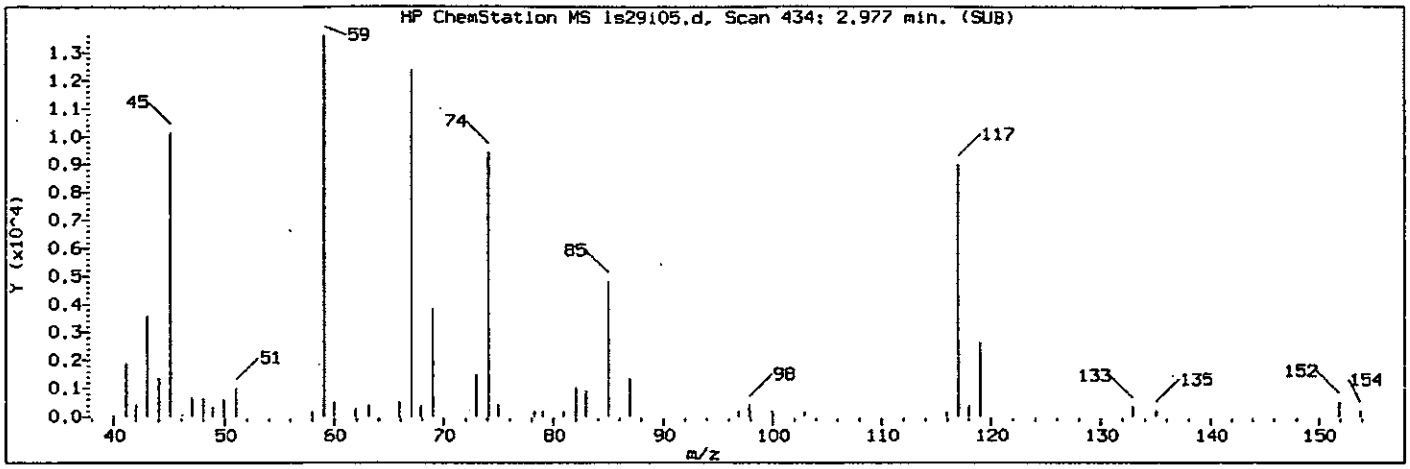
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
141) 1,3-Diethylbenzene	(3)	12.951	119	155254	10.290
142) 1,4-Diethylbenzene	(3)	13.012	119	156934	10.417
143) n-Butylbenzene	(3)	13.028	92	123470	9.956
144) 1,2-Dichlorobenzene	(3)	13.057	146	132761	10.164
145) 1,2-Diethylbenzene	(3)	13.099	119	128176	10.275
146) 1,2-Dibromo-3-Chloropropane	(3)	13.594	75	19210M	9.060
147) 1,2,4-Trichlorobenzene	(3)	14.153	180	103644	10.089
148) Hexachlorobutadiene	(3)	14.256	225	48199	9.847
149) Naphthalene	(3)	14.320	128	318440	9.849
150) 1,2,3-Trichlorobenzene	(3)	14.475	180	102879	10.151
152) 2-Methylnaphthalene	(3)	15.054	142	200211	10.095
54)$Dibromofluoromethane	(1)	6.382	113	58128	9.797
55)$Dibromofluoromethane(mz111)	(1)	6.385	111	59062	9.758
64)$1,2-Dichloroethane-d4	(1)	6.848	102	13650M	9.517
65)$1,2-Dichloroethane-d4(mz65)	(1)	6.845	65	74600M	9.564
66)$1,2-Dichloroethane-d4(mz104)	(1)	6.838	104	9289	10.142
91)$Toluene-d8	(2)	9.379	98	222709	9.894
90)$Toluene-d8(mz100)	(2)	9.379	100	142673	9.837
119)$4-Bromofluorobenzene	(2)	11.883	95	82275	9.944
118)$4-Bromofluorobenzene(mz174)	(2)	11.883	174	69670	9.926

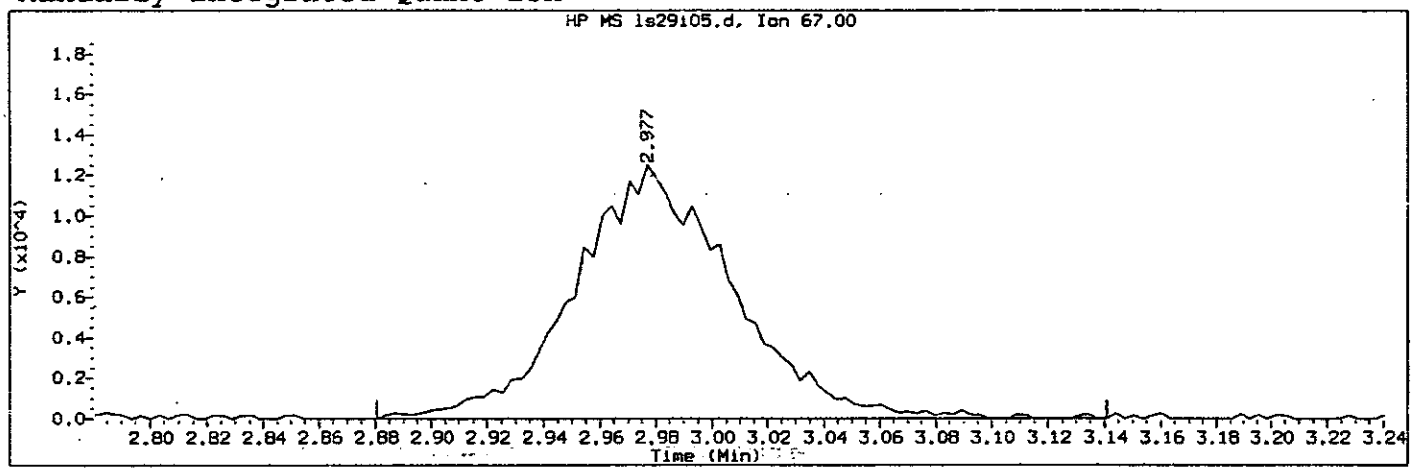
M = Compound was manually integrated.

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i05.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:07 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 30-SEP-2009 01:04
Date, time and analyst ID of latest file update: 30-Sep-2009 01:04 sas00403

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	:	16
Compound Name	:	Freon 123a
Scan Number	:	434
Retention Time (minutes)	:	2.977
Quant Ion	:	67
Area (flag)	:	48582A
Concentration (ug/L)	:	11.9157
Integration start scan	:	403 Integration stop scan: 484
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

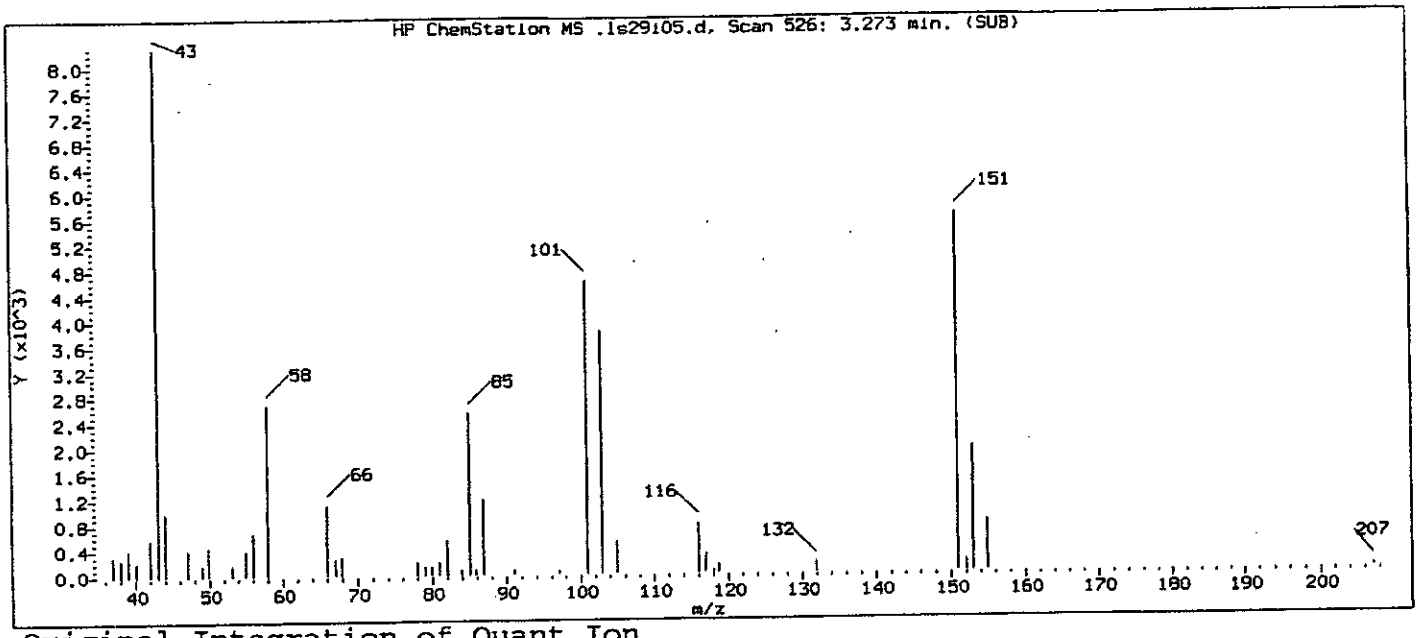
Analyst responsible for change: SAS/403 9/30/09

GC/MS audit/management approval: [signature] 448 9-30-09

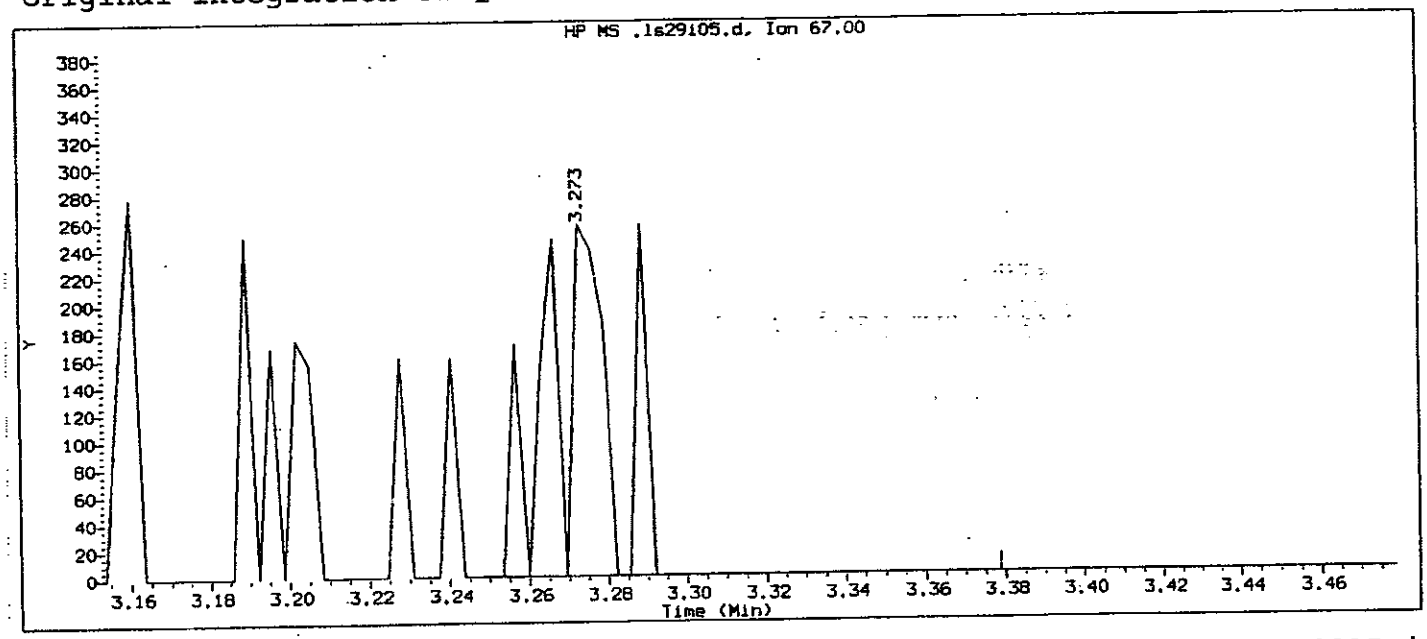
PTL83 8264

Manual Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i05.d, generated on 09/30/2009 at 01:04

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i05.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:07 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 23:25
Date, time and analyst ID of latest file update: 29-Sep-2009 23:25 Automation

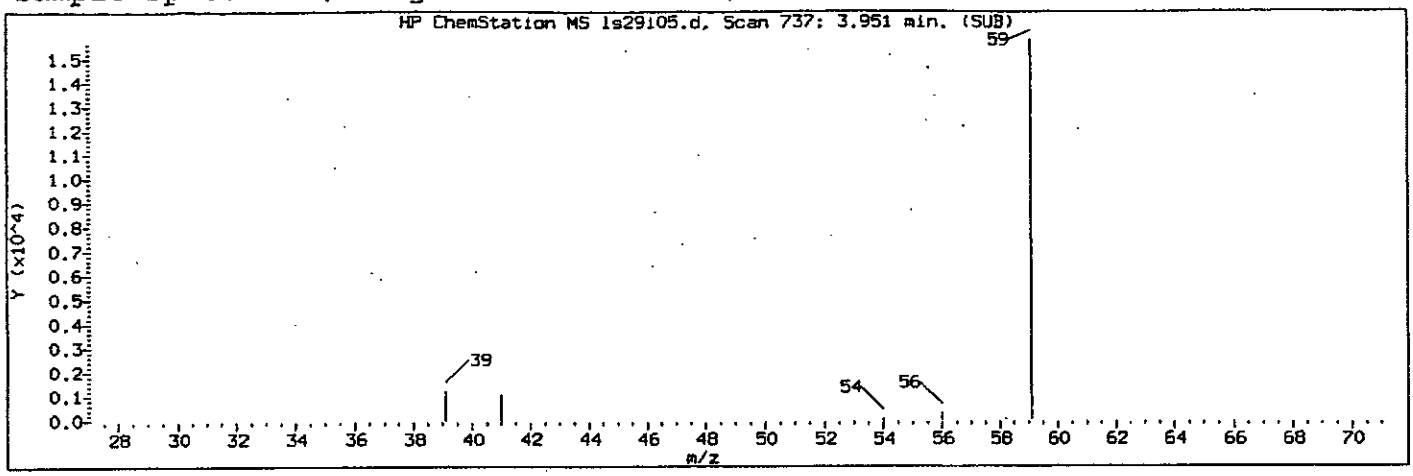
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	:	16
Compound Name	:	Freon 123a
Scan Number	:	526
Retention Time (minutes)	:	3.273
Quant Ion	:	67
Area	:	290
Concentration (ug/L)	:	8.9311
Integration start scan	:	519 Integration stop scan: 558
Y at integration start	:	0 Y at integration end: 0

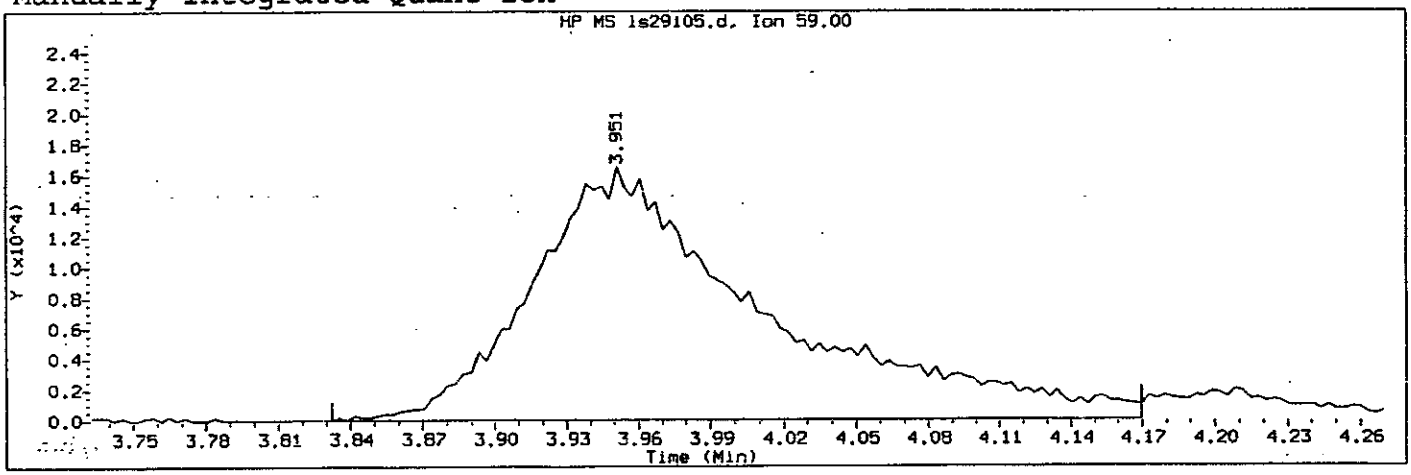
PTL83 0265

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i05.d, generated on 09/30/2009 at 01:04

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i05.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:07 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 30-SEP-2009 01:04
Date, time and analyst ID of latest file update: 30-Sep-2009 01:04 sas00403

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	:	31
Compound Name	:	t-Butyl Alcohol
Scan Number	:	737
Retention Time (minutes)	:	3.951
Quant Ion	:	59
Area (flag)	:	110136 M
Concentration (ug/L)	:	119.1438
Integration start scan	:	699 Integration stop scan: 804
Y at integration start	:	0 Y at integration end: 0

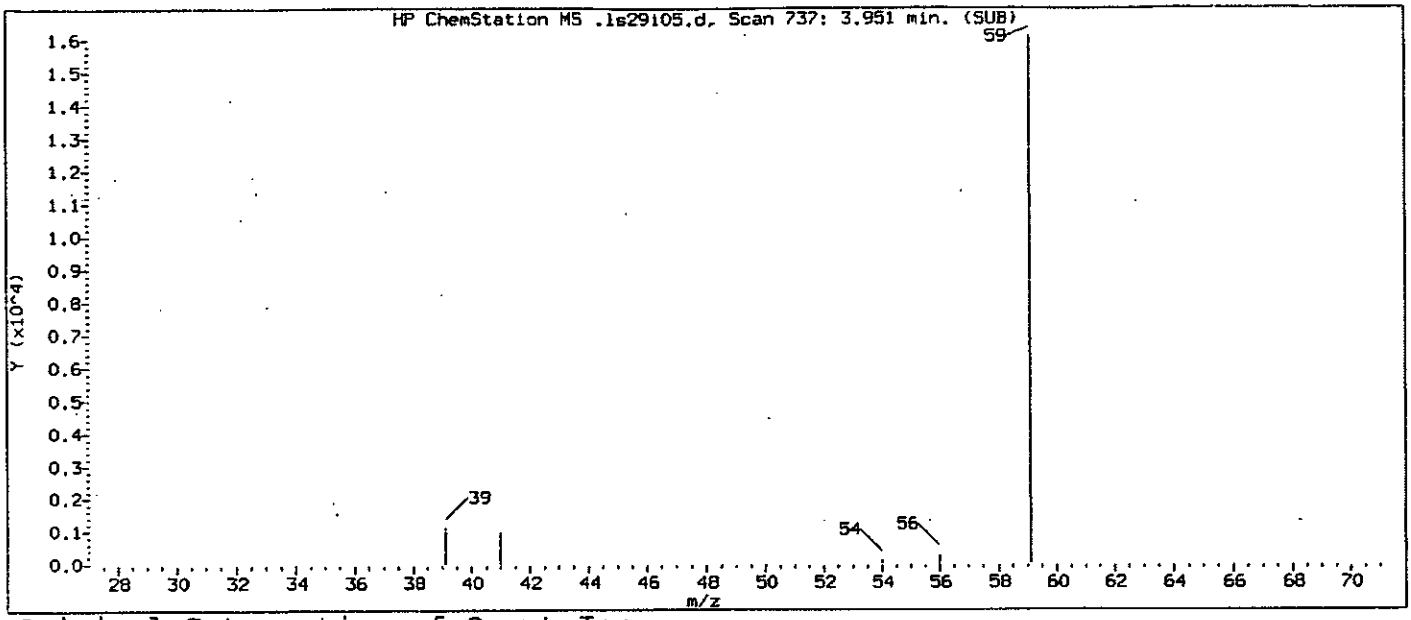
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: DAS/405 9/30/09

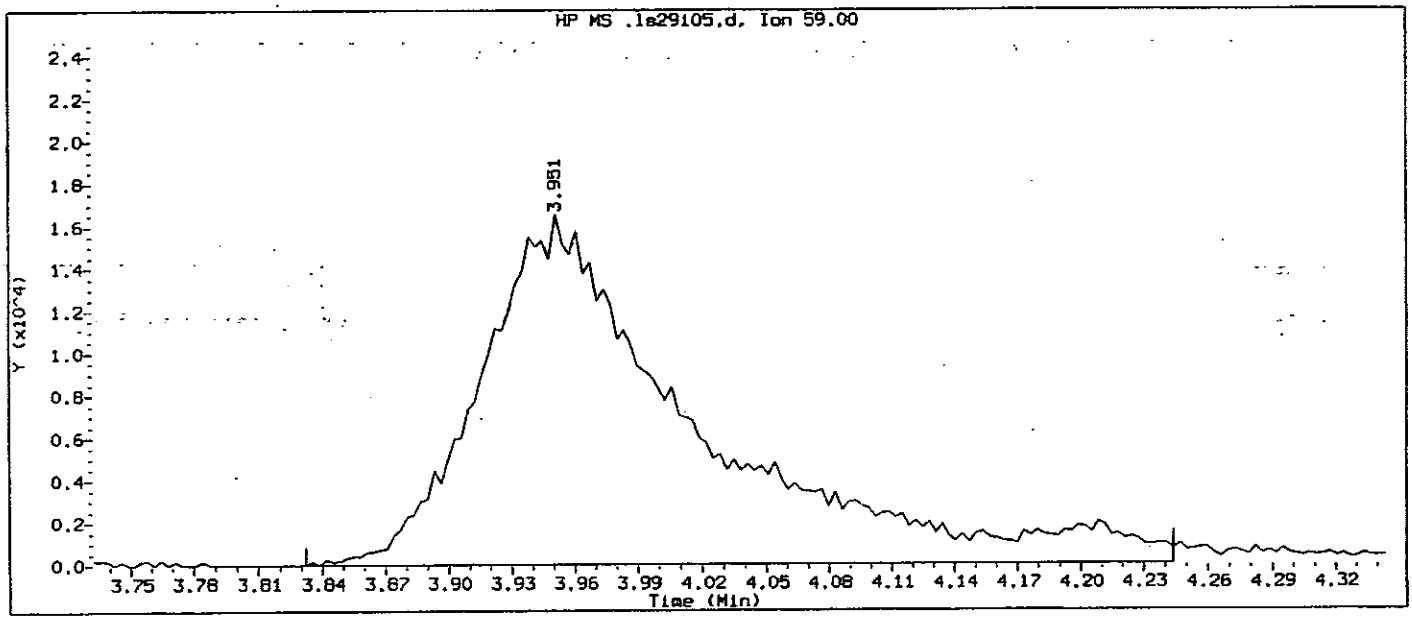
GC/MS audit/management approval [signature] 9/30/09

PTL83 8266

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i05.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:07 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 23:25
Date, time and analyst ID of latest file update: 29-Sep-2009 23:25 Automation

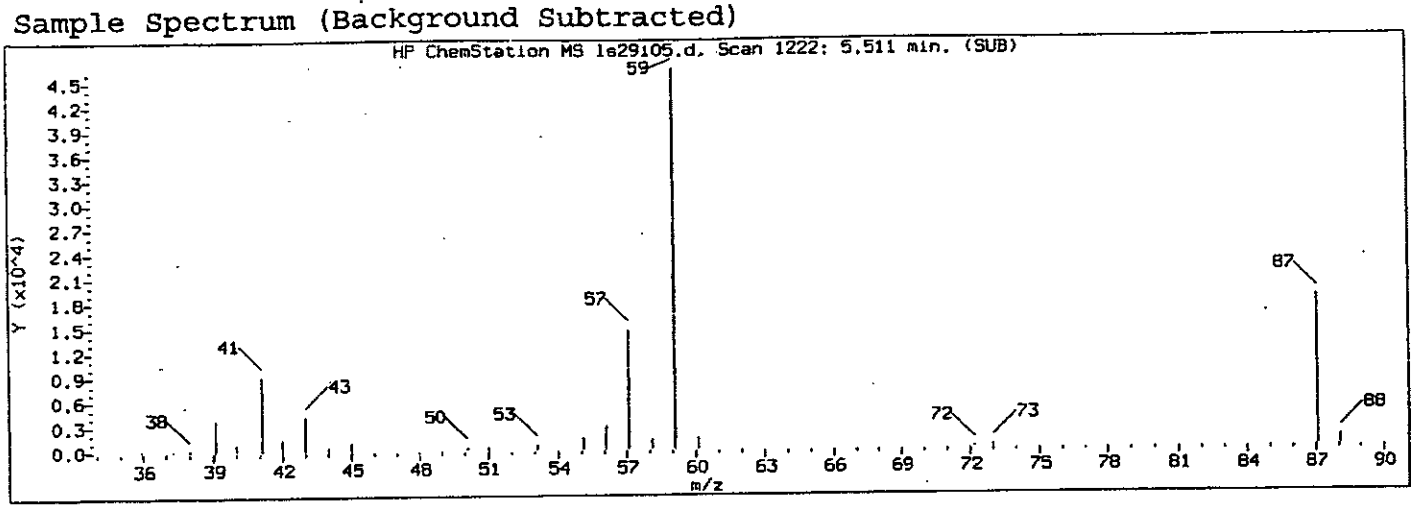
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 31
Compound Name	: t-Butyl Alcohol
Scan Number	: 737
Retention Time (minutes)	: 3.951
Quant Ion	: 59
Area	: 116122
Concentration (ug/L)	: 125.3699
Integration start scan	: 699 Integration stop scan: 827
Y at integration start	: 0 Y at integration end: 0

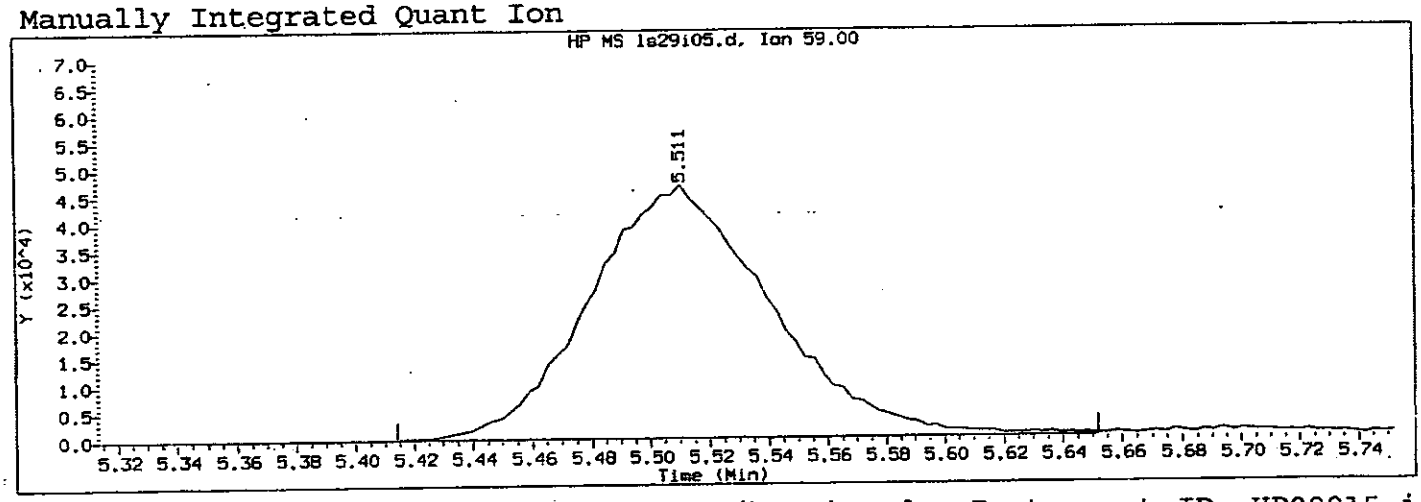
PTL83 8267

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i05.d, generated on 09/30/2009 at 01:04

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i05.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:07 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 30-SEP-2009 01:04
Date, time and analyst ID of latest file update: 30-Sep-2009 01:04 sas00403

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	:	43
Compound Name	:	Ethyl t-Butyl Ether
Scan Number	:	1222
Retention Time (minutes)	:	5.511
Quant Ion	:	59
Area (flag)	:	198693 M
Concentration (ug/L)	:	9.7618
Integration start scan	:	1191 Integration stop scan: 1265
Y at integration start	:	0 Y at integration end: 0

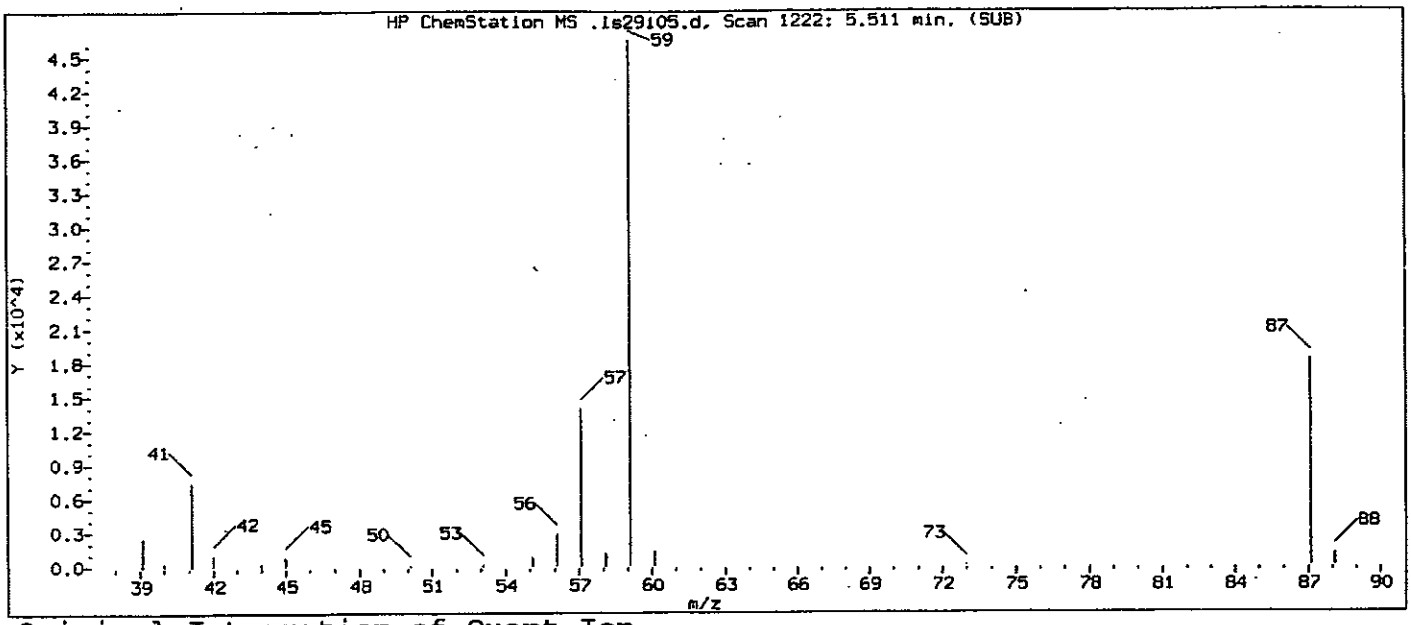
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MS/4m 9/30/09

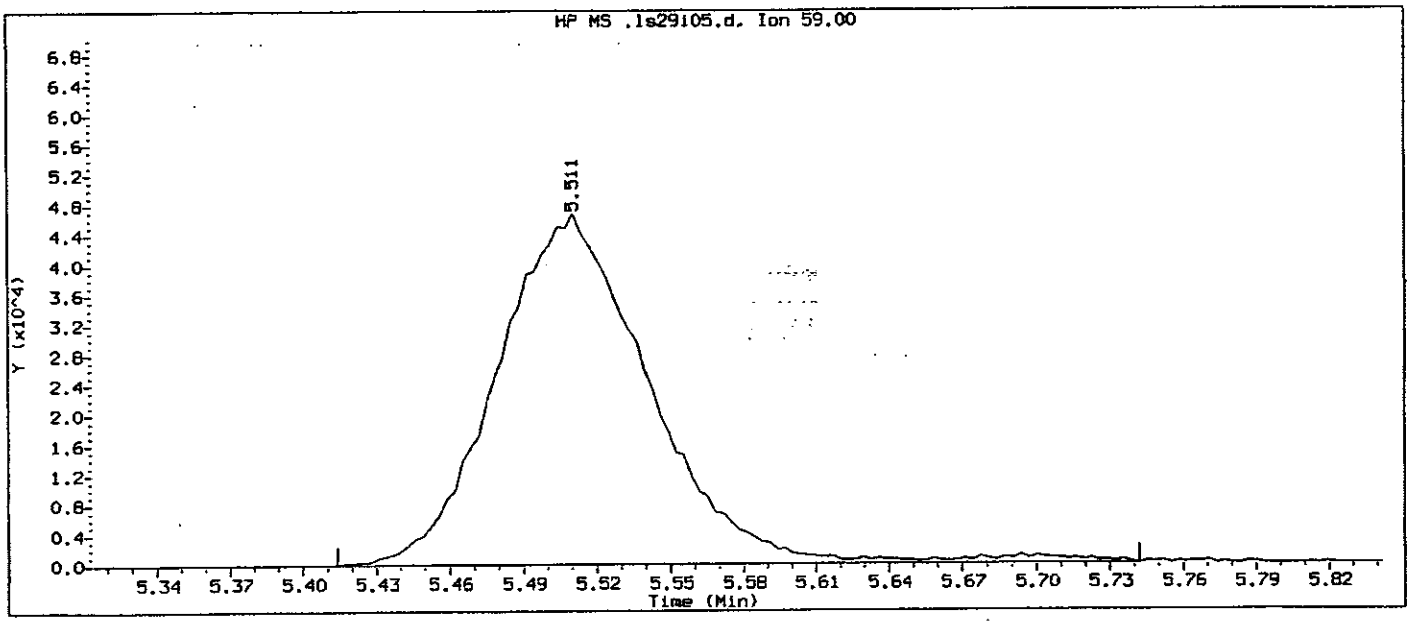
GC/MS audit/management approval: [signature] 9-30-09

PTL03 0268

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i05.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:07 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 23:25
Date, time and analyst ID of latest file update: 29-Sep-2009 23:25 Automation

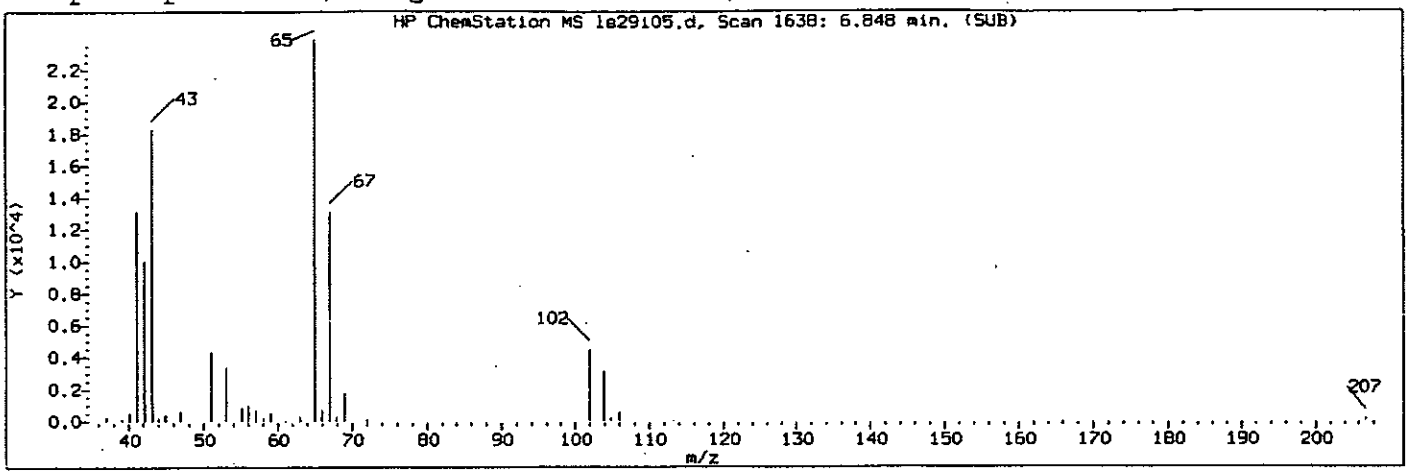
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	:	43
Compound Name	:	Ethyl t-Butyl Ether
Scan Number	:	1222
Retention Time (minutes)	:	5.511
Quant Ion	:	59
Area	:	201919
Concentration (ug/L)	:	9.7132
Integration start scan	:	1191 Integration stop scan: 1293
Y at integration start	:	0 Y at integration end: 0

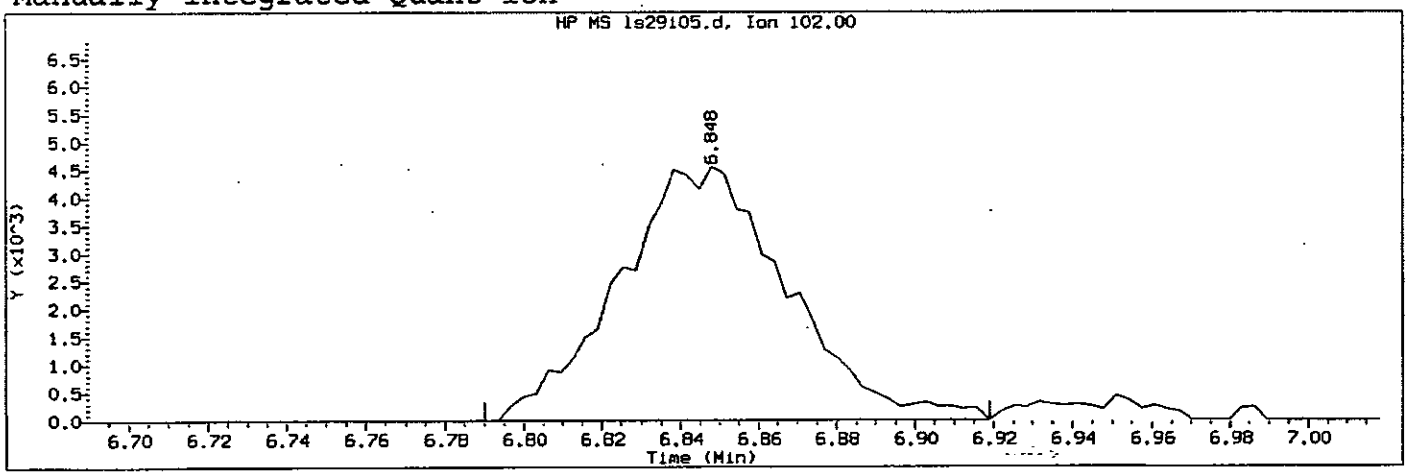
PTL03 0269

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i05.d, generated on 09/30/2009 at 01:04

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i05.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:07 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 30-SEP-2009 01:04
Date, time and analyst ID of latest file update: 30-Sep-2009 01:04 sas00403

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 64
Compound Name : 1,2-Dichloroethane-d4
Scan Number : 1638
Retention Time (minutes): 6.848
Quant Ion : 102
Area (flag) : 13650 M
Concentration (ug/L) : 9.5175
Integration start scan : 1619 Integration stop scan: 1659
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

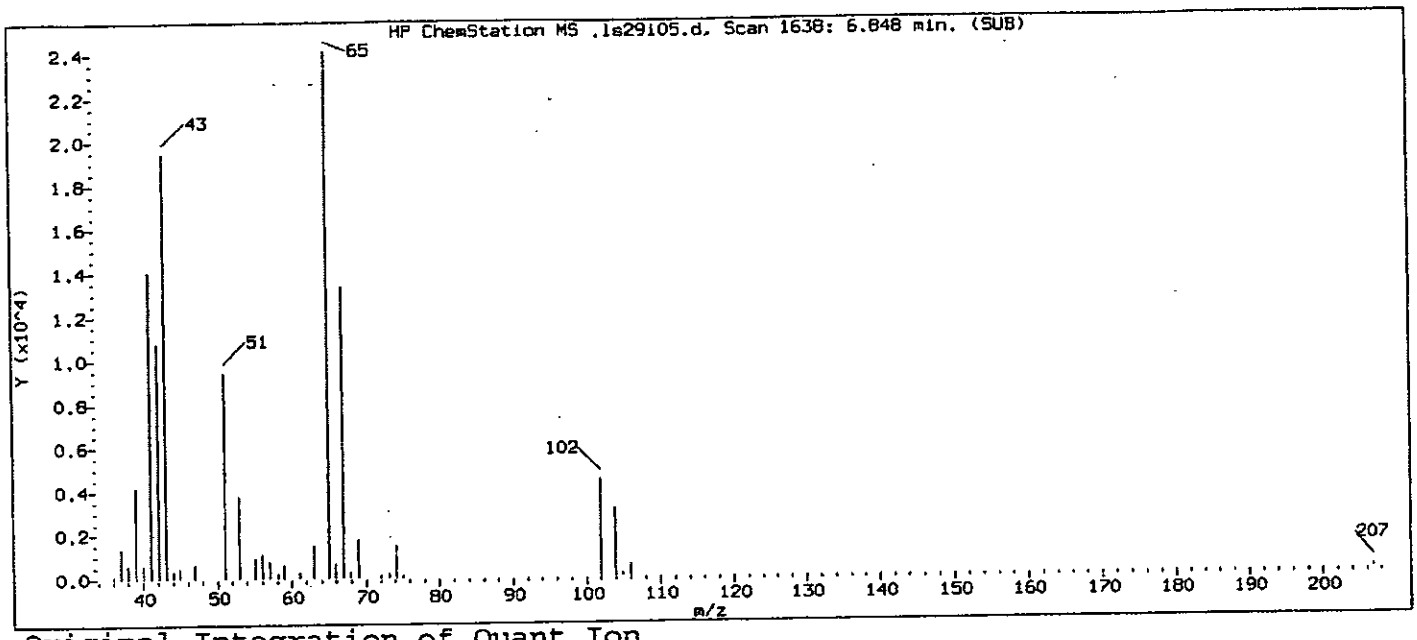
Analyst responsible for change: [signature] 9/30/09

GC/MS audit/management approval: [signature] 9-30-09

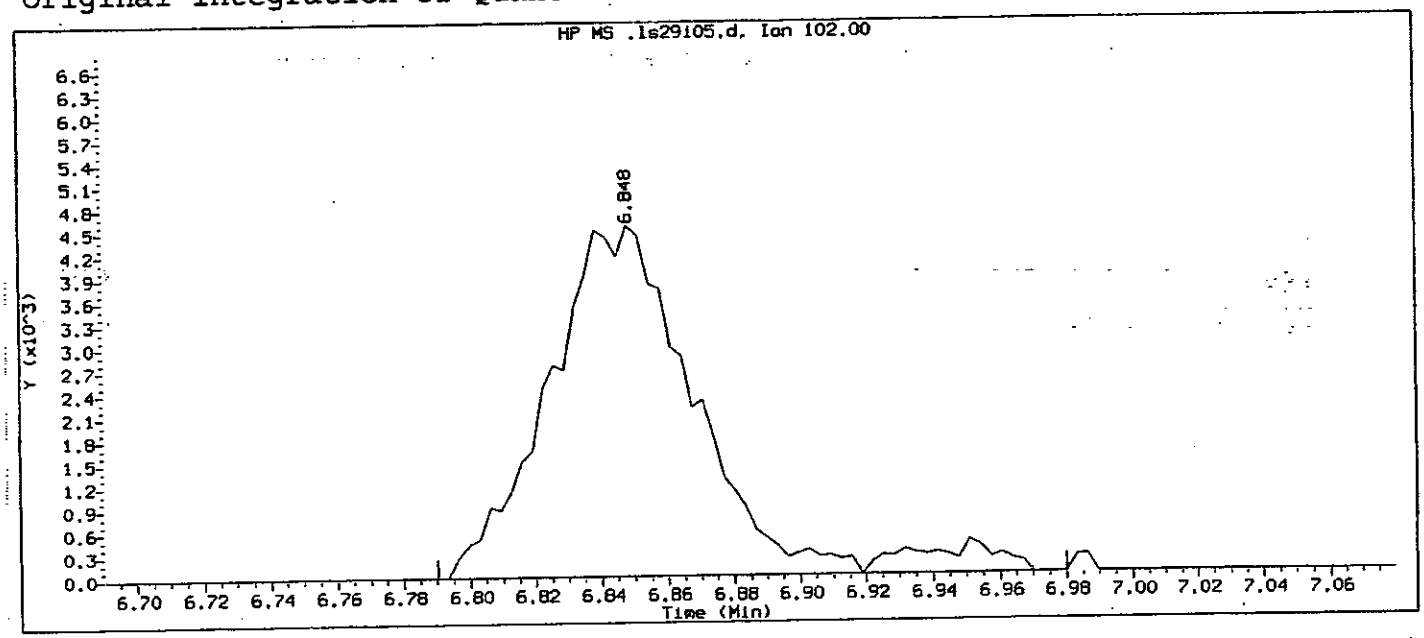
PTL83 0278

Manual Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i05.d, generated on 09/30/2009 at 01:04

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i05.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:07 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 23:25
Date, time and analyst ID of latest file update: 29-Sep-2009 23:25 Automation

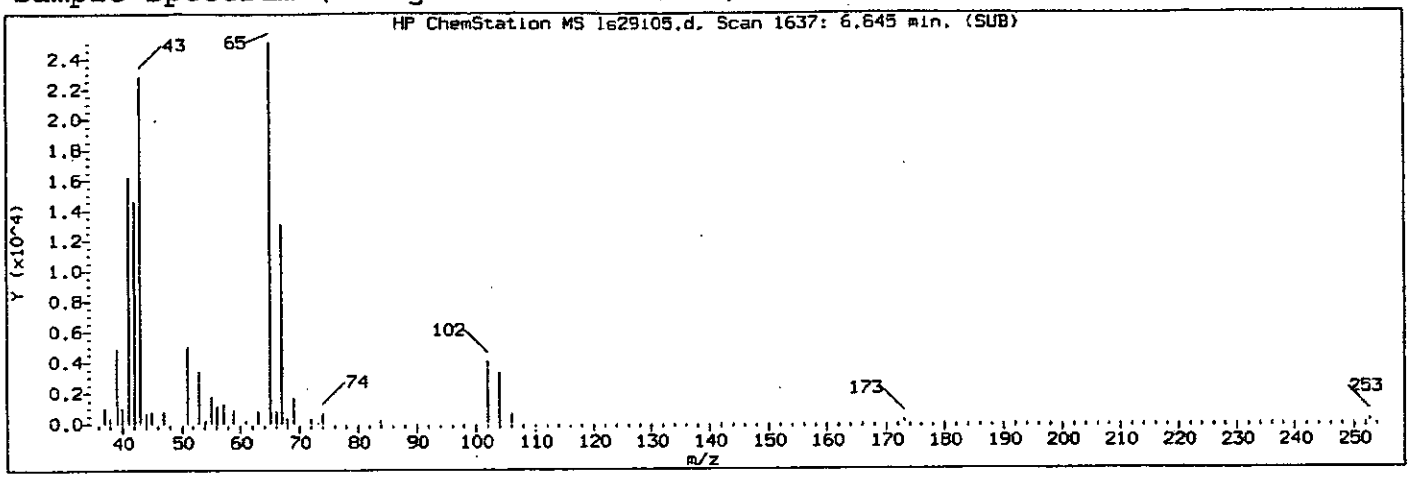
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 64
Compound Name	: 1,2-Dichloroethane-d4
Scan Number	: 1638
Retention Time (minutes)	: 6.848
Quant Ion	: 102
Area	: 14397
Concentration (ug/L)	: 10.0315
Integration start scan	: 1619 Integration stop scan: 1678
Y at integration start	: 0 Y at integration end: 0

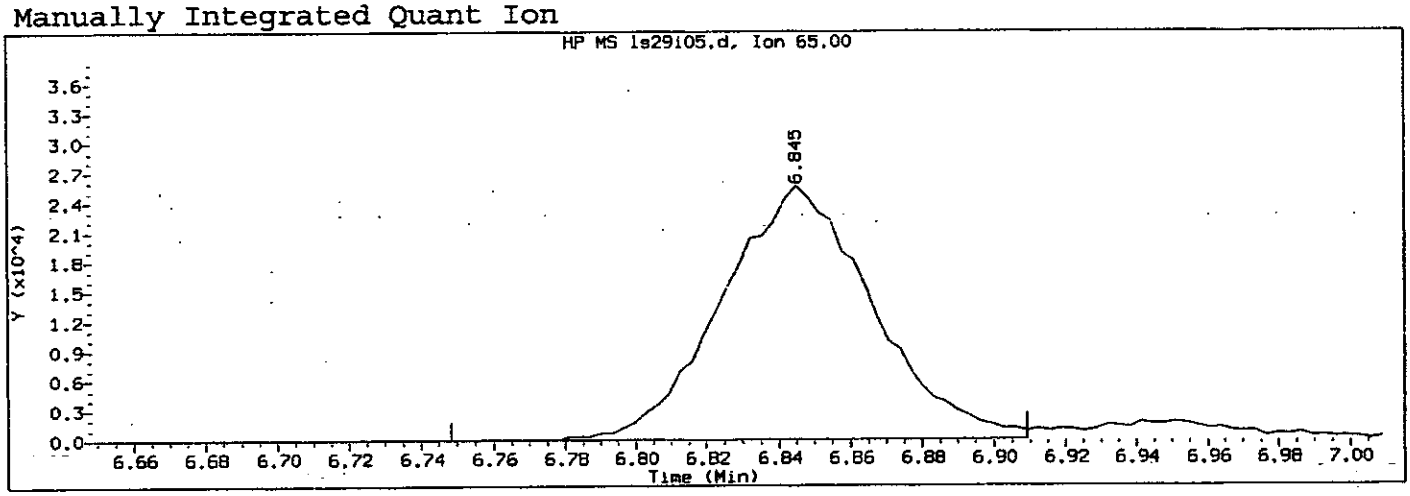
PTL03 0271

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i05.d, generated on 09/30/2009 at 01:04

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i05.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:07 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 30-SEP-2009 01:04
Date, time and analyst ID of latest file update: 30-Sep-2009 01:04 sas00403

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 65
Compound Name : 1,2-Dichloroethane-d4(mz65)
Scan Number : 1637
Retention Time (minutes): 6.845
Quant Ion : 65
Area (flag) : 74600 M
Concentration (ug/L) : 9.5641
Integration start scan : 1606 Integration stop scan: 1656
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

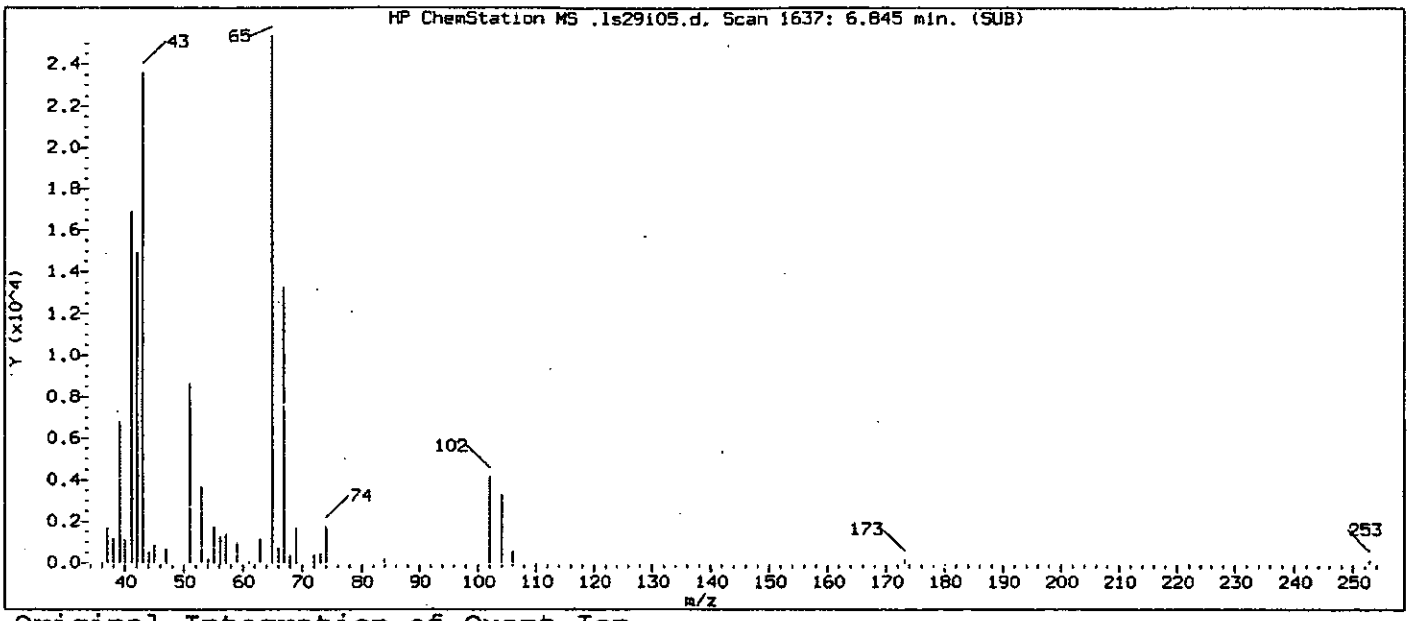
Analyst responsible for change: MS/403 9/30/09

GC/MS audit/management approval: 9-30-09

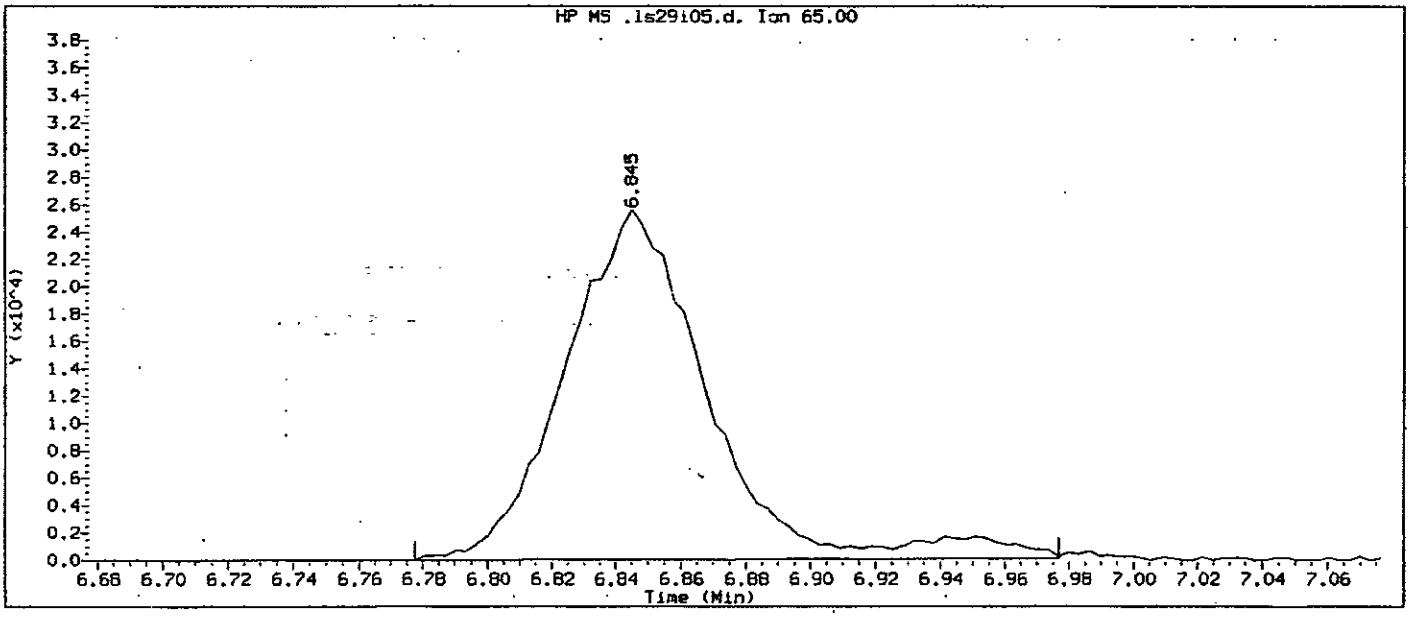
PTL83 8222

Manual Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i05.d, generated on 09/30/2009 at 01:04

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i05.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:07 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 23:25
Date, time and analyst ID of latest file update: 29-Sep-2009 23:25 Automation

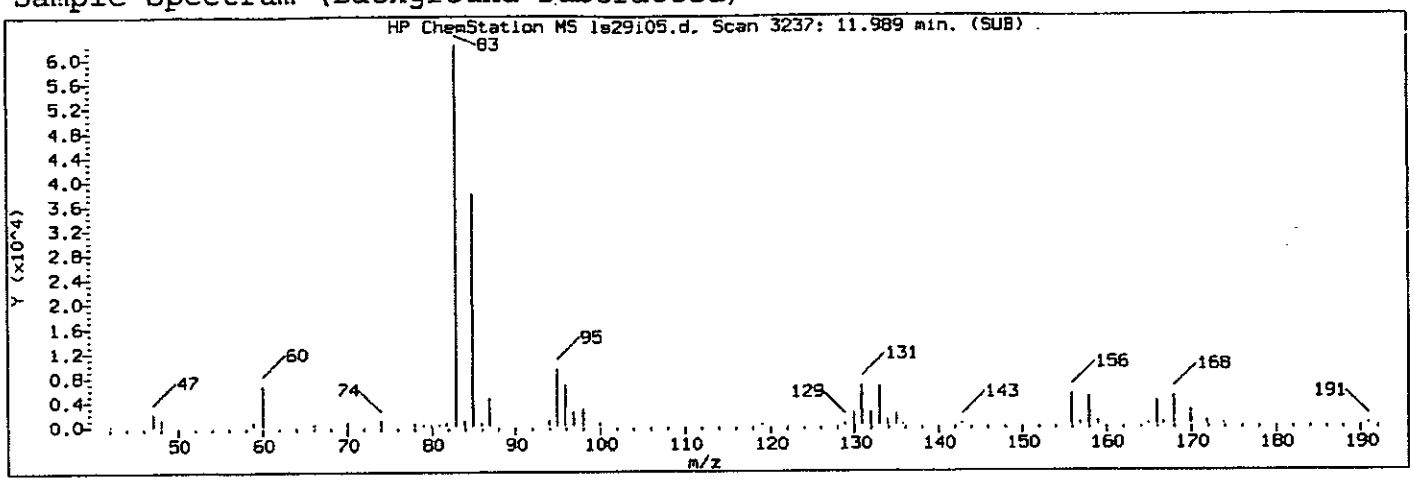
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 65
Compound Name	: 1,2-Dichloroethane-d4(mz65)
Scan Number	: 1637
Retention Time (minutes)	: 6.845
Quant Ion	: 65
Area	: 78437
Concentration (ug/L)	: 9.9353
Integration start scan	: 1615 Integration stop scan: 1677
Y at integration start	: 0 Y at integration end: 135

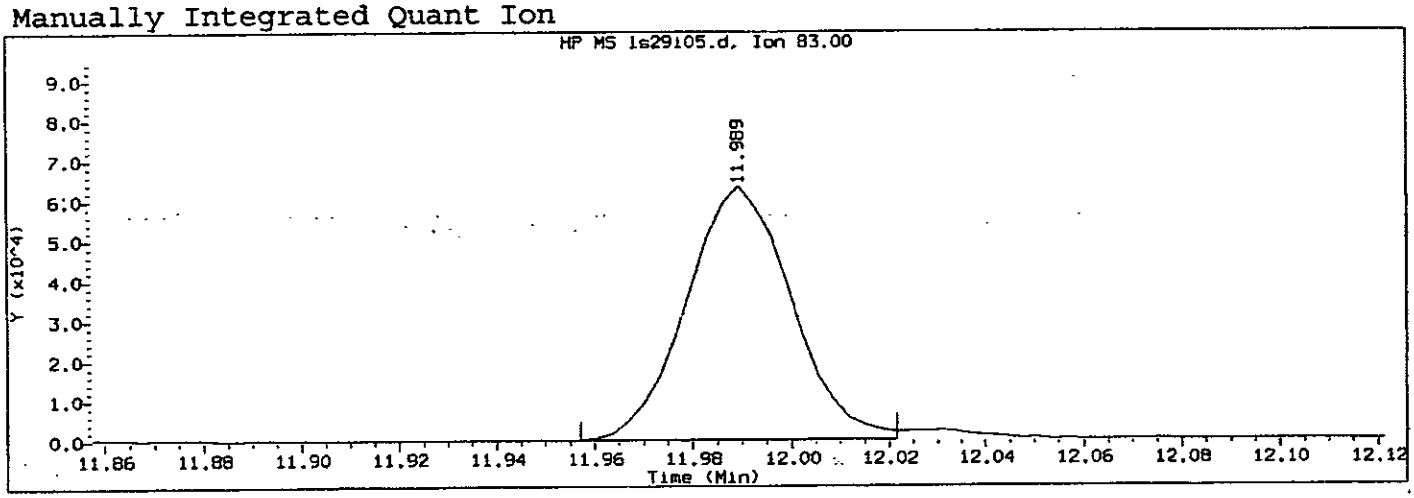
PTL03 0273

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i05.d, generated on 09/30/2009 at 01:04

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i05.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:07 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 30-SEP-2009 01:04
Date, time and analyst ID of latest file update: 30-Sep-2009 17:12 kdp02245

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 120
Compound Name	: 1,1,2,2-Tetrachloroethane
Scan Number	: 3237
Retention Time (minutes)	: 11.989
Quant Ion	: 83
Area (flag)	: 93496 M
Concentration (ug/L)	: 9.9788
Integration start scan	: 3226 Integration stop scan: 3246
Y at integration start	: 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

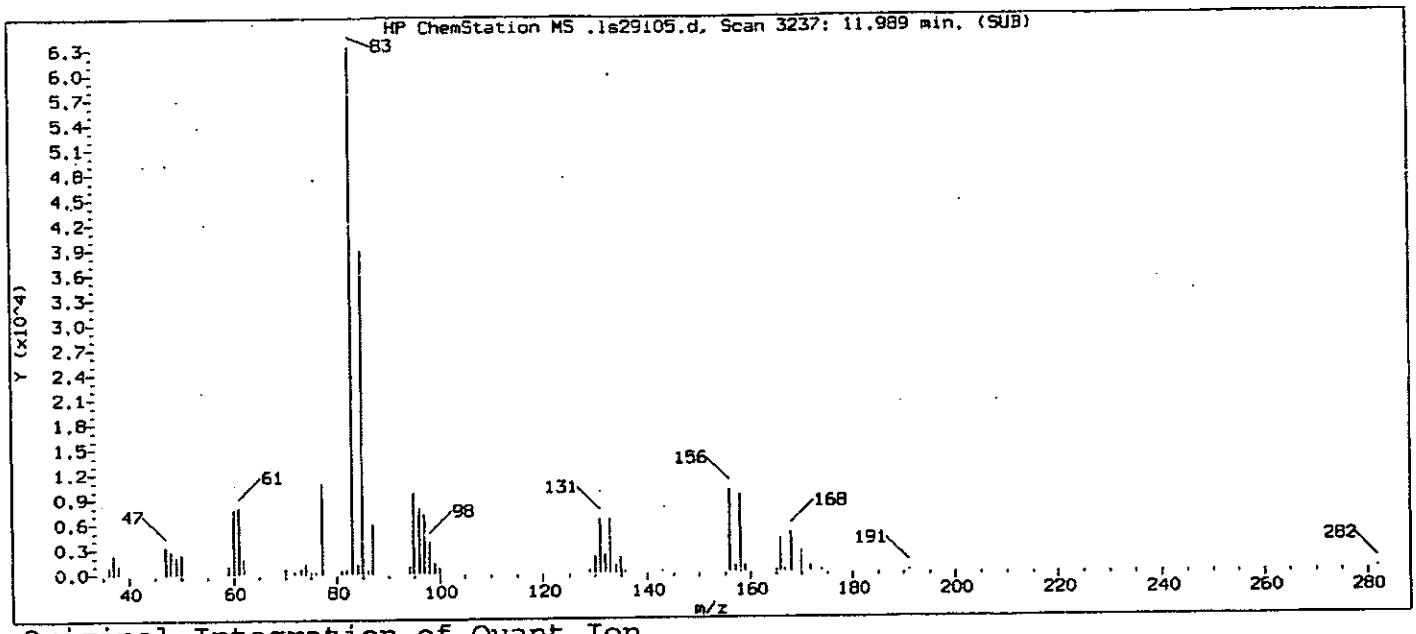
Analyst responsible for change: KDP2245 9/30/09

GC/MS audit/management approval: [signature] 9/30/09

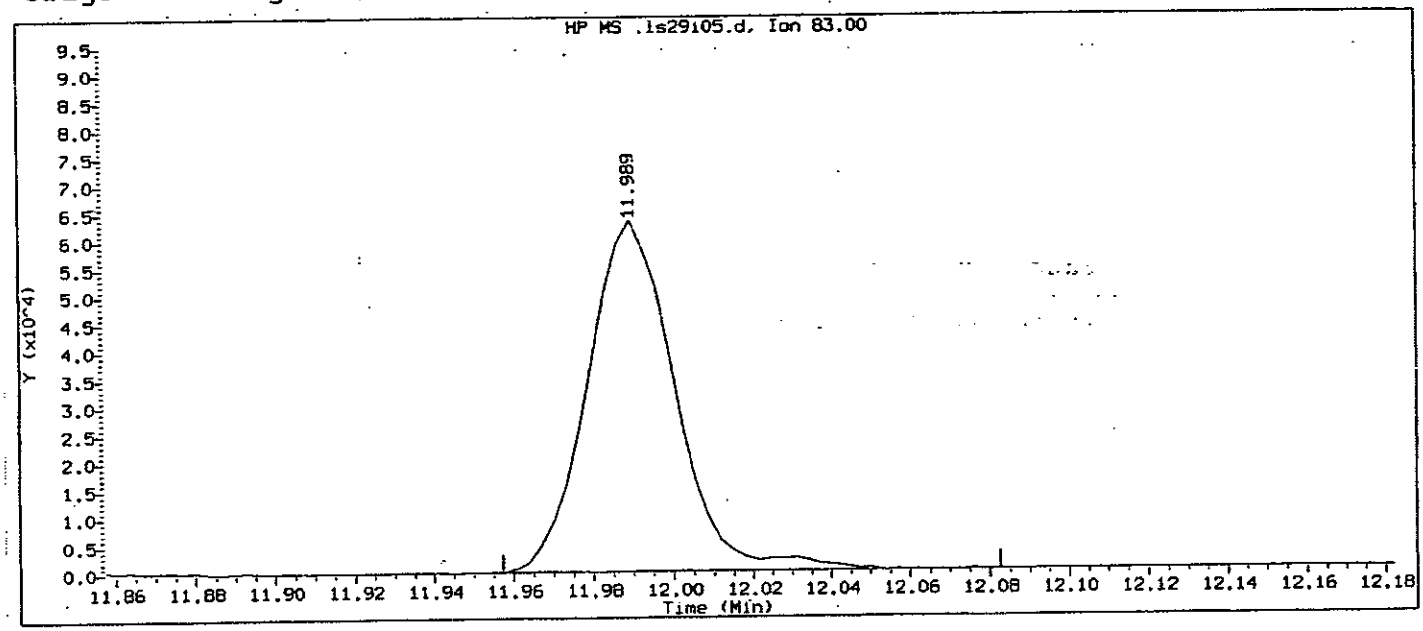
PTL03 0274

Manual Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i05.d, generated on 09/30/2009 at 17:12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i05.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:07 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 23:25
Date, time and analyst ID of latest file update: 29-Sep-2009 23:25 Automation

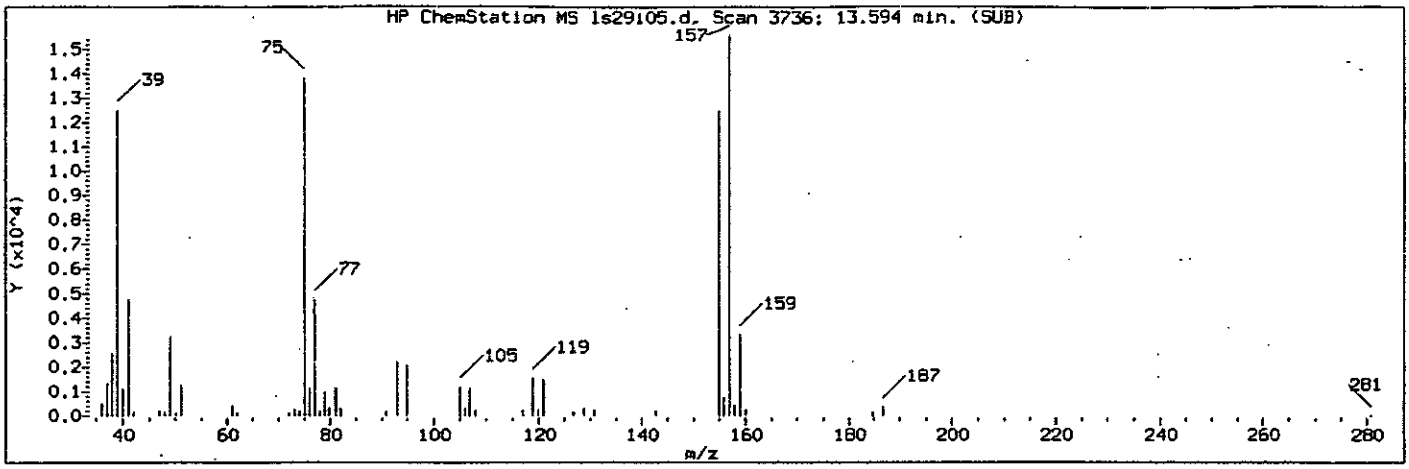
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	:	120
Compound Name	:	1,1,2,2-Tetrachloroethane
Scan Number	:	3237
Retention Time (minutes)	:	11.989
Quant Ion	:	83
Area	:	95967
Concentration (ug/L)	:	10.0509
Integration start scan	:	3226 Integration stop scan: 3265
Y at integration start	:	0 Y at integration end: 0

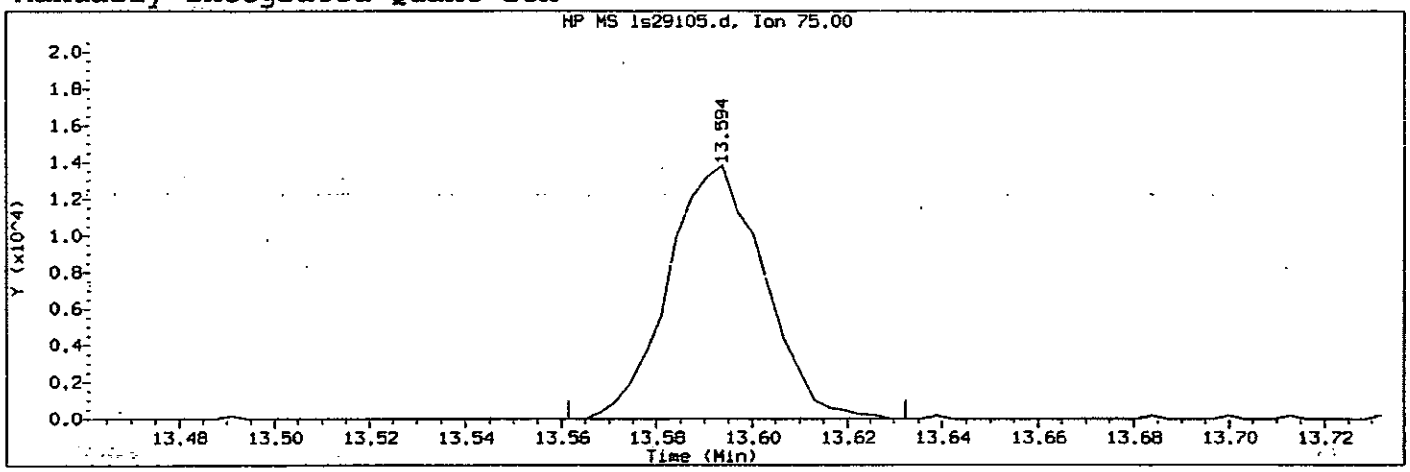
PTL03 0275

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i05.d, generated on 09/30/2009 at 17:12

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i05.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:07 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 30-SEP-2009 01:04
Date, time and analyst ID of latest file update: 30-Sep-2009 01:04 sas00403

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 146
Compound Name : 1,2-Dibromo-3-Chloropropane
Scan Number : 3736
Retention Time (minutes): 13.594
Quant Ion : 75
Area (flag) : 19210 M
Concentration (ug/L) : 9.0604
Integration start scan : 3725 Integration stop scan: 3747
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

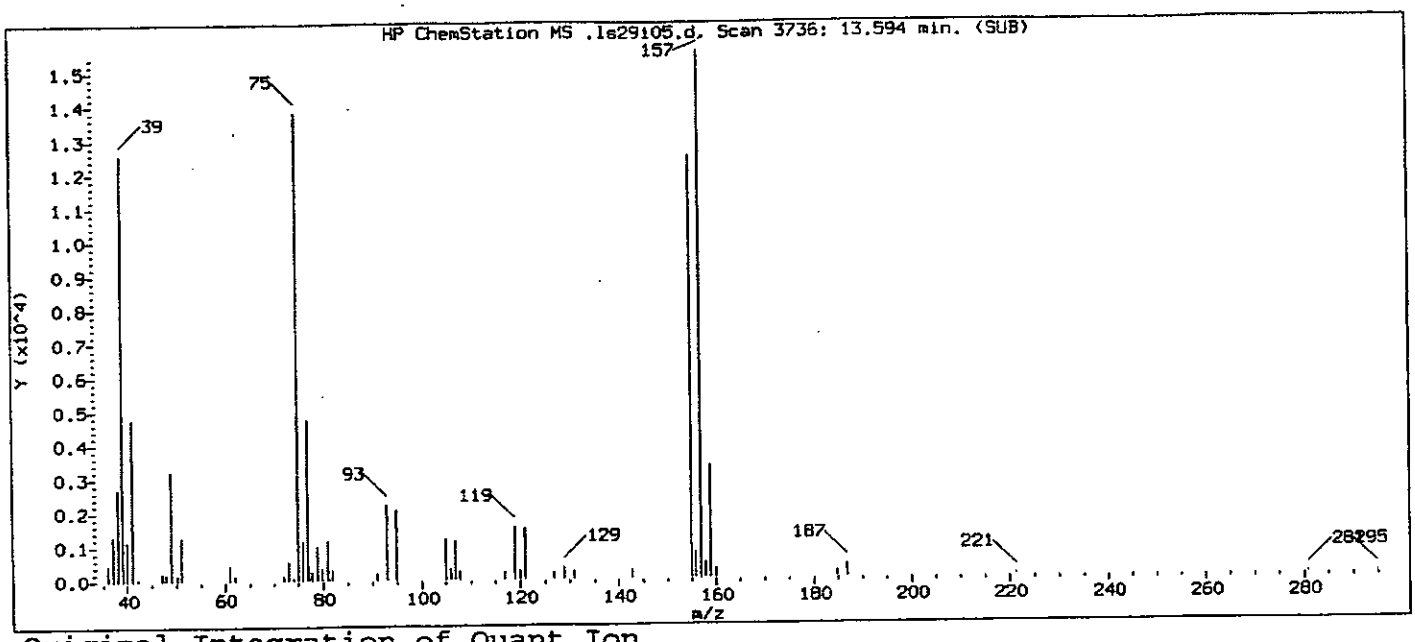
Analyst responsible for change: SAS/403 9/30/09

GC/MS audit/management approval: 9-30-09

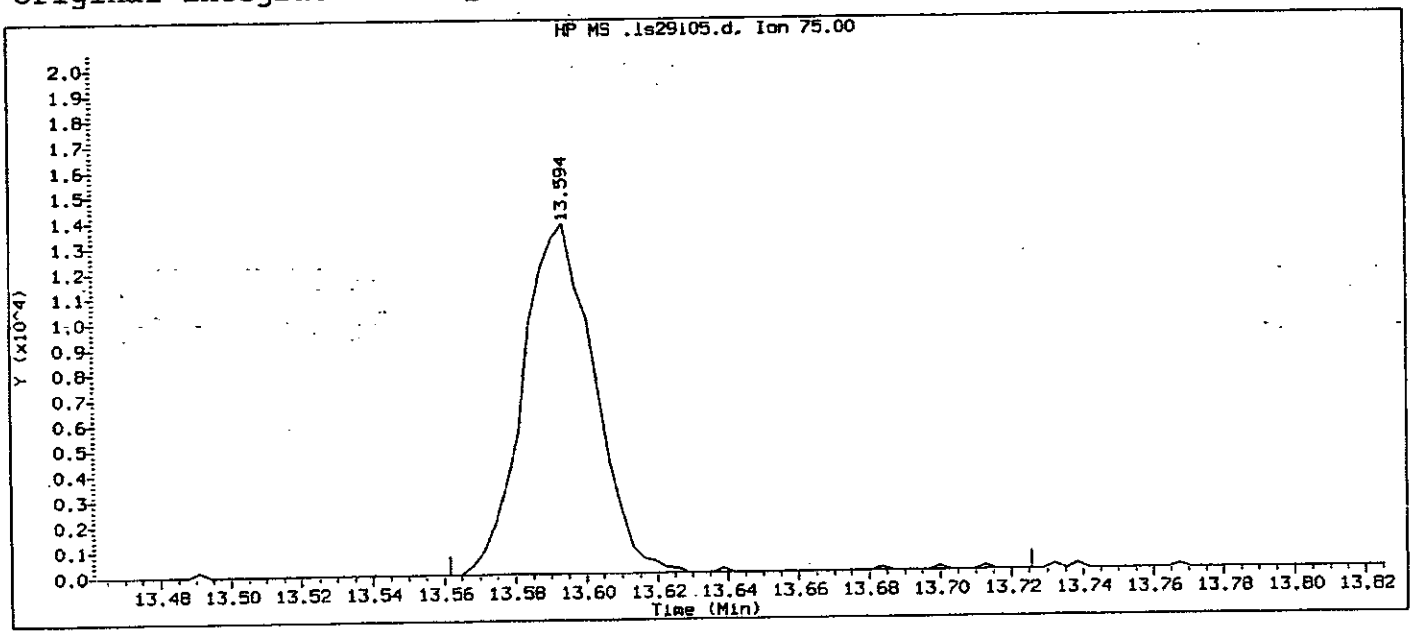
PTL03 0276

Manual Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i05.d, generated on 09/30/2009 at 01:04

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i05.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:07 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 23:25
Date, time and analyst ID of latest file update: 29-Sep-2009 23:25 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

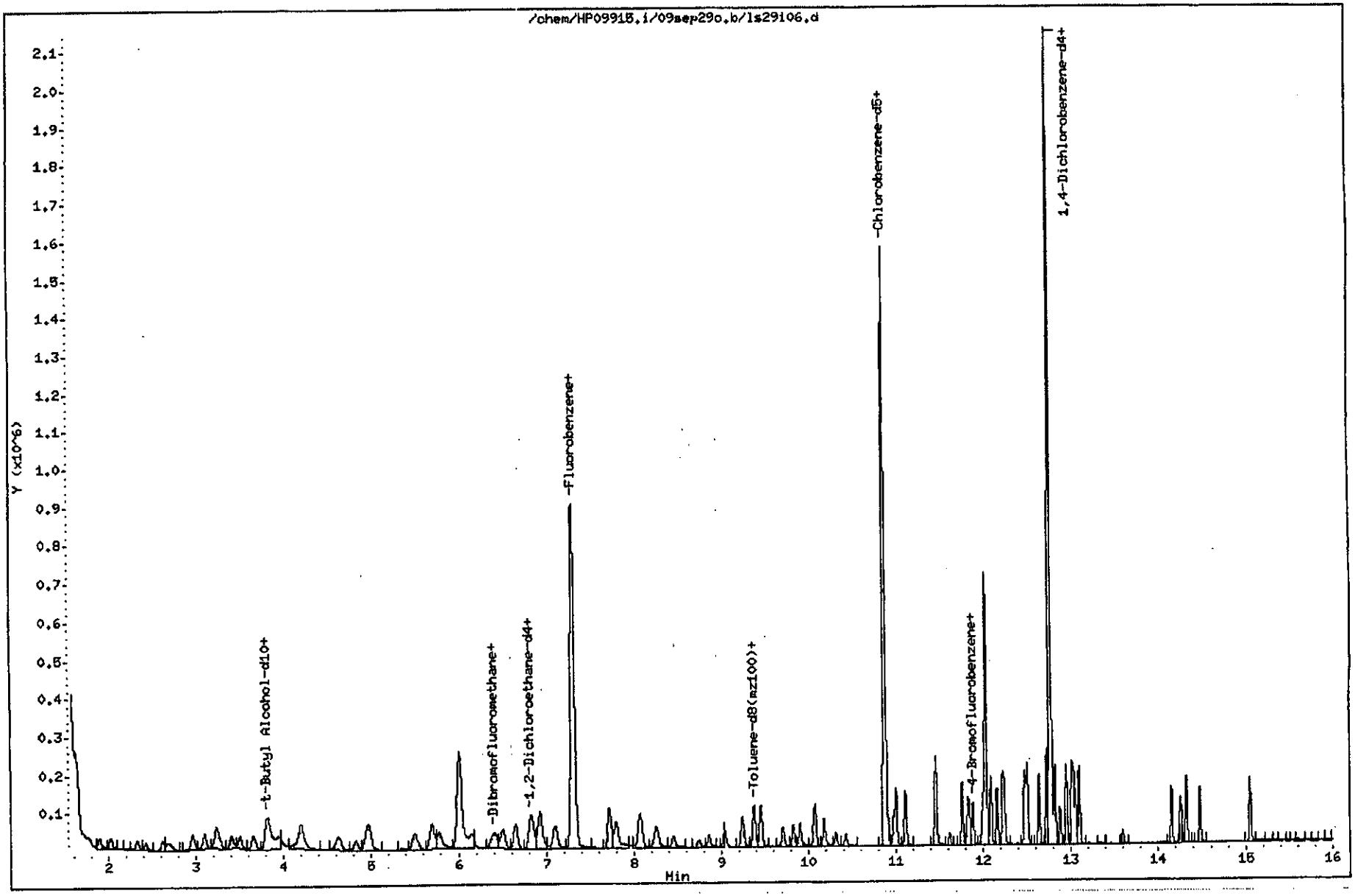
Compound Number	:	146
Compound Name	:	1,2-Dibromo-3-Chloropropane
Scan Number	:	3736
Retention Time (minutes)	:	13.594
Quant Ion	:	75
Area	:	19337
Concentration (ug/L)	:	8.8337
Integration start scan	:	3725 Integration stop scan: 3776
Y at integration start	:	0 Y at integration end: 0

PTL03 0277

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i05.d, generated on 09/30/2009 at 01:04

Data File: /chem/HP09915.i/09sep29o.b/ls29106.d
Date : 29-SEP-2009 23:29
Client ID: VSTD004
Sample Info: VSTD004;VSTD004;1;1;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i
Operator: KDP02245
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29i06.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:29 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:13 kdp02245

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.774	85	37737	3.870
3) Chloromethane	(1)	1.896	50	36328	4.076
4) Vinyl Chloride	(1)	2.015	62	32398	4.002
8) Bromomethane	(1)	2.324	94	18742	3.770
9) Chloroethane	(1)	2.424	64	17079	4.581
10) Dichlorofluoromethane	(1)	2.617	67	34401	4.257
11) Trichlorofluoromethane	(1)	2.684	101	40786	4.023
15) Ethyl Ether	(1)	2.957	59	18163	4.153
16) Freon 123a	(1)	2.964	67	20925	4.320
18) Acrolein	(4)	3.099	56	69033	35.435
19) 1,1-Dichloroethene	(1)	3.228	96	18682	4.093
20) Freon 113	(1)	3.256	101	20475	3.989
21) Acetone	(1)	3.256	43	24075	9.075
22) 2-Propanol	(4)	3.411	45	50975	79.926
23) Methyl Iodide	(1)	3.408	142	35527	3.765
24) Carbon Disulfide	(1)	3.501	76	72681	3.807
27) Allyl Chloride	(1)	3.652	41	37418M	4.048
28) Methyl Acetate	(1)	3.662	43	29831	3.910
29) Methylene Chloride	(1)	3.800	84	30561	4.675
30)*t-Butyl Alcohol-d10	(4)	3.826	65	227028	250.000
31) t-Butyl Alcohol	(4)	3.945	59	83040	84.382
32) Acrylonitrile	(1)	4.128	53	15300	3.972
33) trans-1,2-Dichloroethene	(1)	4.195	96	22391	3.906
34) Methyl Tertiary Butyl Ether	(1)	4.192	73	76719	3.767
35) n-Hexane	(1)	4.623	57	34837	3.739
42) 1,2-Dichloroethene (total)	(1)		96	46186	7.780
36) 1,1-Dichloroethane	(1)	4.829	63	42116	3.858
40) di-Isopropyl Ether	(1)	4.948	45	87616	3.769
41) 2-Chloro-1,3-Butadiene	(1)	4.977	53	36669	3.708
43) Ethyl t-Butyl Ether	(1)	5.501	59	72357M	3.637
44) cis-1,2-Dichloroethene	(1)	5.687	96	23795	3.874
45) 2-Butanone	(1)	5.713	43	41988	7.714
46) 2,2-Dichloropropane	(1)	5.697	77	30995	3.719
47) Propionitrile	(4)	5.784	54	120169	82.784

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29i06.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:29 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:13 kdp02245

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
50) Methacrylonitrile	(1)	6.006	67	148361	38.793
51) Bromochloromethane	(1)	6.028	128	11946	4.058
52) Tetrahydrofuran	(4)	6.096	71	8300	7.497
53) Chloroform	(1)	6.160	83	37759	3.818
57) 1,1,1-Trichloroethane	(1)	6.414	97	39590	4.171
60) Cyclohexane	(1)	6.501	56	41311	3.724
59) Cyclohexane (mz 84)	(1)	6.497	84	32725	3.752
58) Cyclohexane (mz 69)	(1)	6.504	69	11847	3.717
61) 1,1-Dichloropropene	(1)	6.649	75	31113	3.812
62) Carbon Tetrachloride	(1)	6.649	117	25178	3.453
63) Isobutyl Alcohol	(4)	6.822	41	80192	195.337
67) Benzene	(1)	6.928	78	91130	3.809
68) 1,2-Dichloroethane	(1)	6.938	62	34303	3.752
69) 1,2-Dichloroethane (mz 98)	(1)	6.941	98	2806	3.850
71) t-Amyl Methyl Ether	(1)	7.105	73	66106	3.572
72) *Fluorobenzene	(1)	7.308	96	1203488	50.000
74) n-Heptane	(1)	7.327	43	39128	3.841
75) n-Butanol	(4)	7.719	56	126069	388.256
76) Trichloroethene	(1)	7.800	95	22970	3.882
77) Methylcyclohexane	(1)	8.067	83	35298	3.827
78) Methylcyclohexane (mz98)	(1)	8.063	98	16212	3.910
79) 1,2-Dichloropropane	(1)	8.083	63	25020	3.747
80) Dibromomethane	(1)	8.243	93	15835	3.829
81) Methyl Methacrylate	(1)	8.259	69	20544	3.378
82) 1,4-Dioxane	(4)	8.266	88	18368M	213.571
84) Bromodichloromethane	(1)	8.452	83	25791	3.491
85) 2-Nitropropane	(1)	8.739	41	16734	6.667
86) 2-Chloroethyl Vinyl Ether	(1)	8.861	63	17478	3.428
87) cis-1,3-Dichloropropene	(1)	9.038	75	34330	3.543
89) 4-Methyl-2-Pentanone	(1)	9.240	43	79410	7.188
93) Toluene	(2)	9.456	92	55395	4.007
94) trans-1,3-Dichloropropene	(2)	9.710	75	30991	3.345
95) Ethyl Methacrylate	(2)	9.825	69	32158	3.356
96) 1,1,2-Trichloroethane	(2)	9.906	97	20483	3.797

M = Compound was manually integrated.

* = Compound is an internal standard.

PTL83 0288

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29i06.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:29 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:13 kdp02245

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
97) Tetrachloroethene	(2)	10.066	166	22975	3.825
98) 1,3-Dichloropropane	(2)	10.083	76	36317	3.636
100) 2-Hexanone	(2)	10.179	43	56914	6.804
102) Dibromochloromethane	(2)	10.317	129	18948	3.183
103) 1,2-Dibromoethane	(2)	10.427	107	21318	3.534
104) *Chlorobenzene-d5	(2)	10.874	117	845735	50.000
105) Chlorobenzene	(2)	10.899	112	59797	3.776
107) 1,1,1,2-Tetrachloroethane	(2)	10.976	131	18768	3.435
108) Ethylbenzene	(2)	11.005	91	101286	3.729
109) m+p-Xylene	(2)	11.108	106	38812	3.690
110) Xylene (Total)	(2)		106	77283	7.512
111) o-Xylene	(2)	11.452	106	38471	3.823
112) Styrene	(2)	11.462	104	58529	3.527
113) Bromoform	(2)	11.616	173	13744	3.073
115) Isopropylbenzene	(2)	11.761	105	96947	3.683
117) Cyclohexanone	(4)	11.832	55	63787	201.894
120) 1,1,2,2-Tetrachloroethane	(3)	11.992	83	33017M	3.588
122) Bromobenzene	(3)	12.005	156	26373	3.769
123) 1,2,3-Trichloropropane	(3)	12.028	110	10570	3.800
124) trans-1,4-Dichloro-2-Butene	(3)	12.034	53	119947	36.237
125) n-Propylbenzene	(3)	12.089	120	27953	3.683
126) 2-Chlorotoluene	(3)	12.160	126	24927	3.806
127) 1,3,5-Trimethylbenzene	(3)	12.221	120	41313	3.698
128) 4-Chlorotoluene	(3)	12.240	126	26432	3.868
130) tert-Butylbenzene	(3)	12.475	134	19608	3.833
131) Pentachloroethane	(3)	12.488	167	16485	3.738
132) 1,2,4-Trimethylbenzene	(3)	12.507	105	87631	3.693
134) sec-Butylbenzene	(3)	12.636	134	21450	3.674
135) 1,3-Dichlorobenzene	(3)	12.722	146	50329	3.829
136) p-Isopropyltoluene	(3)	12.735	134	24839	3.721
137) *1,4-Dichlorobenzene-d4	(3)	12.767	152	486271	50.000
138) 1,4-Dichlorobenzene	(3)	12.783	146	53523	3.844
139) 1,2,3-Trimethylbenzene	(3)	12.819	120	42624	3.988
140) Benzyl Chloride	(3)	12.880	91	57032	3.112

M = Compound was manually integrated.

* = Compound is an internal standard.

PTL03 0281

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29i06.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:29 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:13 kdp02245

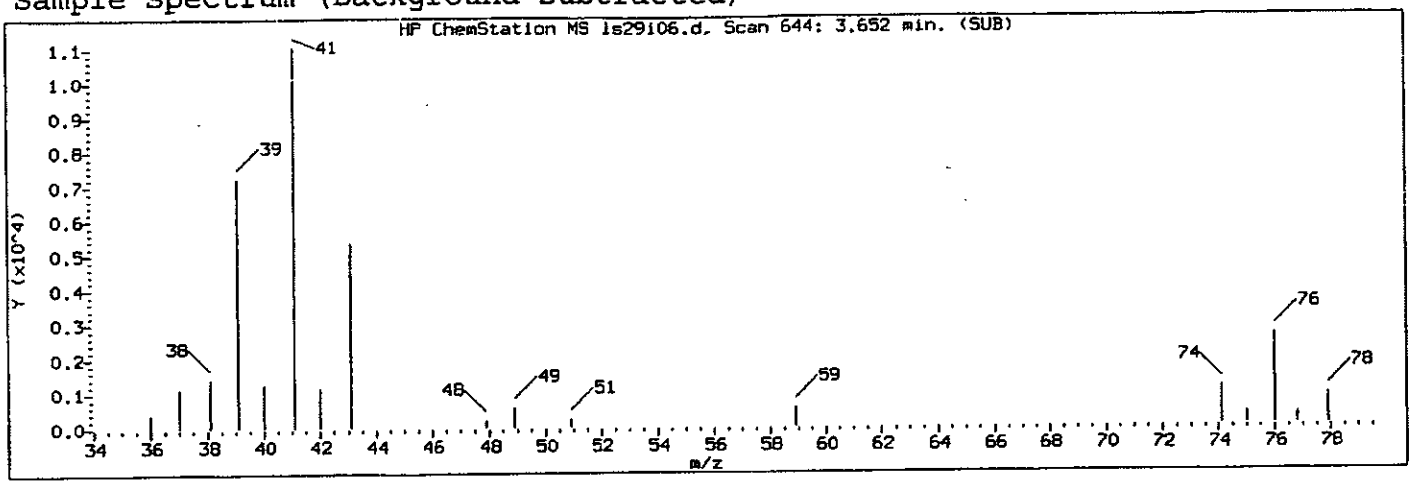
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
141) 1,3-Diethylbenzene	(3)	12.951	119	57727	3.870
142) 1,4-Diethylbenzene	(3)	13.012	119	59079	3.966
143) n-Butylbenzene	(3)	13.031	92	46811	3.818
144) 1,2-Dichlorobenzene	(3)	13.057	146	50360	3.900
145) 1,2-Diethylbenzene	(3)	13.098	119	48201	3.908
146) 1,2-Dibromo-3-Chloropropane	(3)	13.590	75	7074	3.375
147) 1,2,4-Trichlorobenzene	(3)	14.153	180	39109	3.851
148) Hexachlorobutadiene	(3)	14.256	225	19513	4.032
149) Naphthalene	(3)	14.320	128	114864	3.593
150) 1,2,3-Trichlorobenzene	(3)	14.478	180	39298	3.922
152) 2-Methylnaphthalene	(3)	15.053	142	73507M	3.749
54)$Dibromofluoromethane	(1)	6.372	113	22553	3.889
55)$Dibromofluoromethane(mz111)	(1)	6.375	111	22734	3.843
64)$1,2-Dichloroethane-d4	(1)	6.848	102	5880	4.194
65)$1,2-Dichloroethane-d4(mz65)	(1)	6.838	65	30142M	3.954
66)$1,2-Dichloroethane-d4(mz104)	(1)	6.848	104	3522	3.934
91)$Toluene-d8	(2)	9.378	98	89650	4.058
90)$Toluene-d8(mz100)	(2)	9.375	100	57263	4.023
119)$4-Bromofluorobenzene	(2)	11.883	95	31939	3.933
118)$4-Bromofluorobenzene(mz174)	(2)	11.883	174	27342	3.969

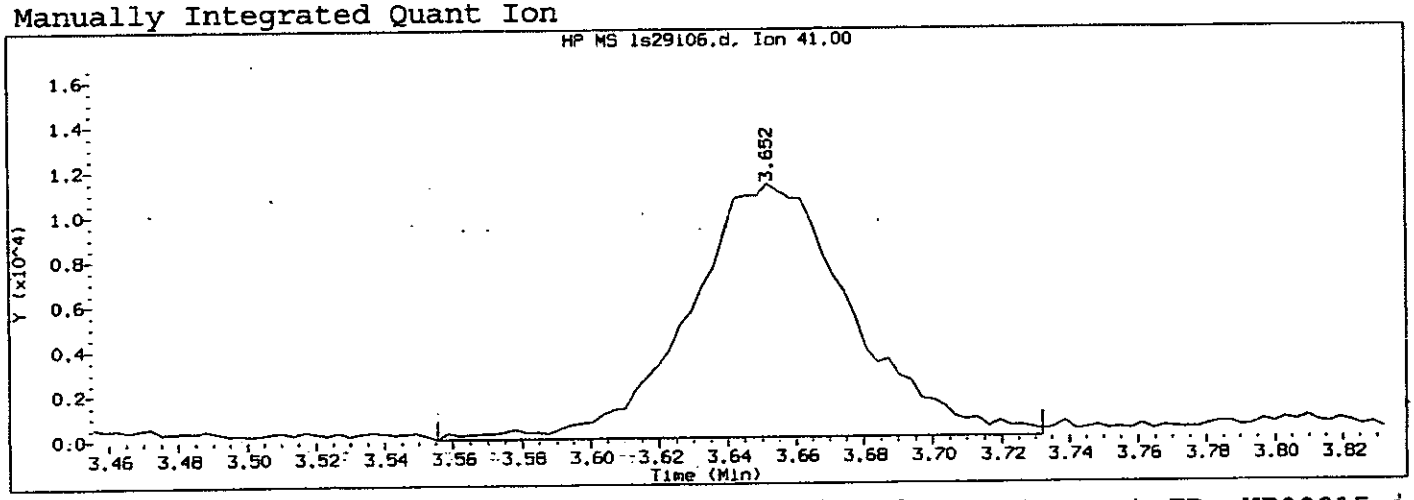
M = Compound was manually integrated.

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i06.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:29 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 23:47
Date, time and analyst ID of latest file update: 30-Sep-2009 01:02 sas00403

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 27
Compound Name : Allyl Chloride
Scan Number : 644
Retention Time (minutes): 3.652
Quant Ion : 41
Area (flag) : 37418 M
Concentration (ug/L) : 4.0477
Integration start scan : 613 Integration stop scan: 668
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

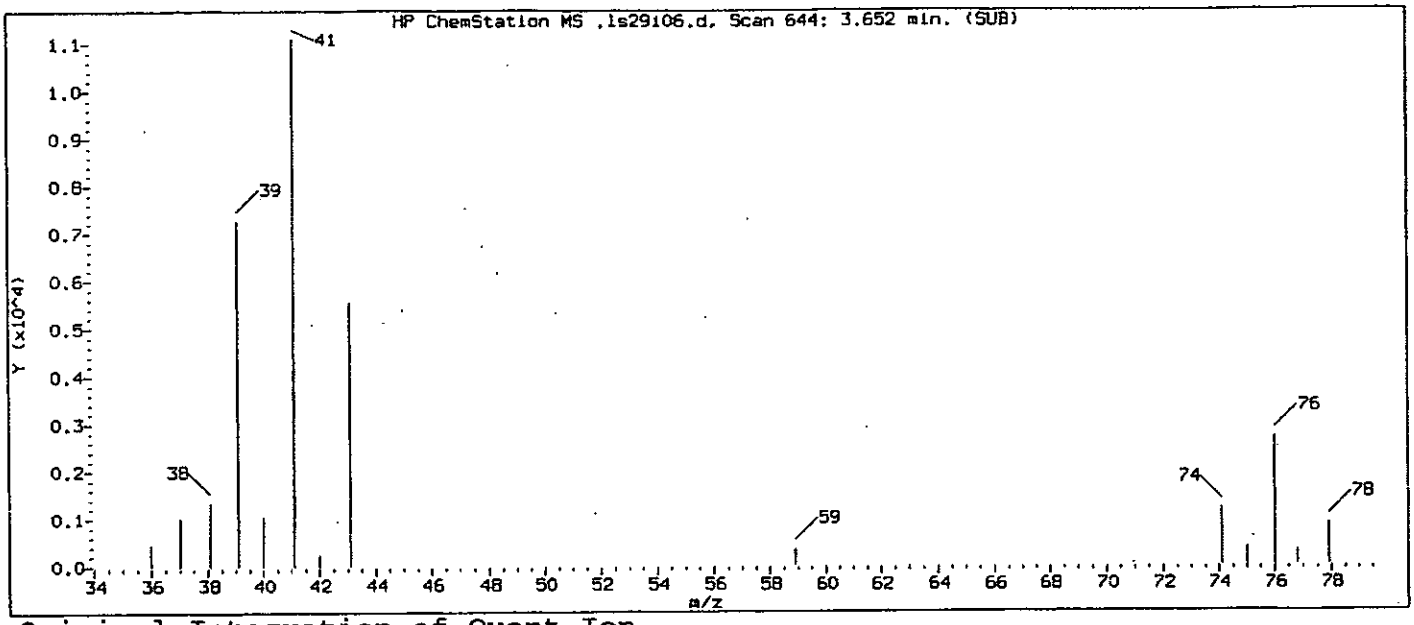
Analyst responsible for change: [signature] 9/30/09

GC/MS audit/management approval: [signature] 9-30-09

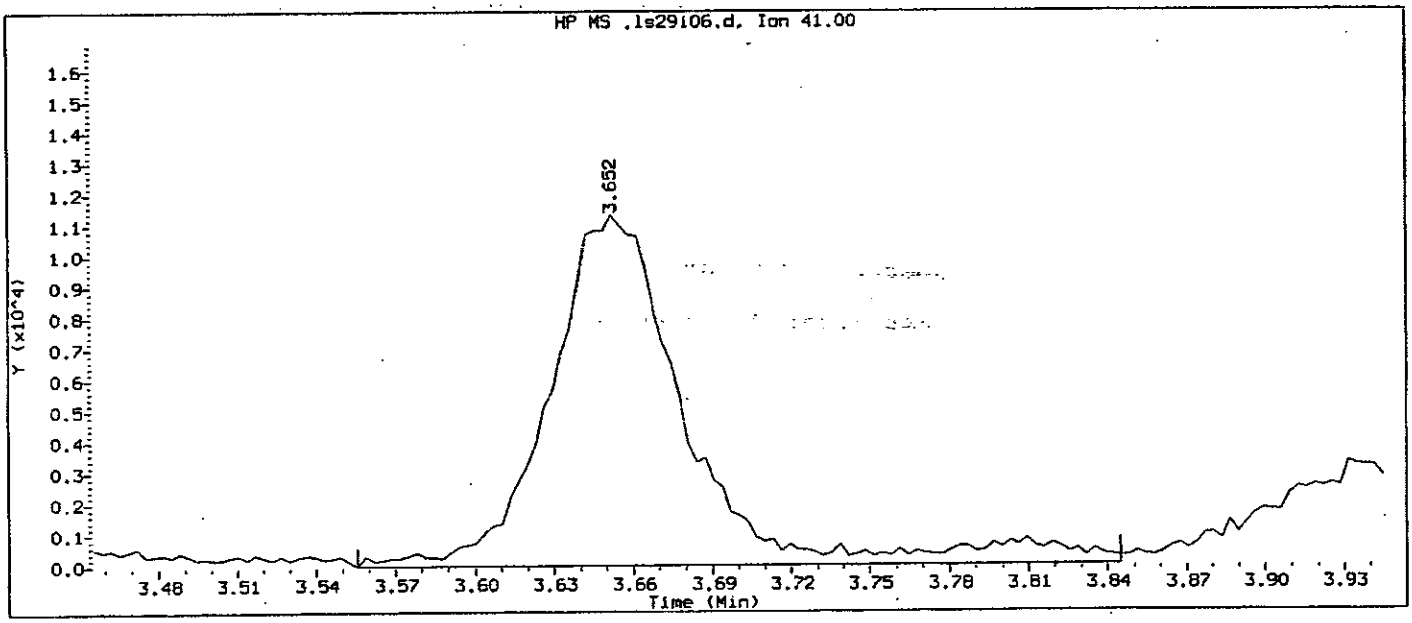
PTL03 0283

Manual Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i06.d, generated on 09/30/2009 at 01:03

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i06.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:29 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 23:47
Date, time and analyst ID of latest file update: 29-Sep-2009 23:47 Automation

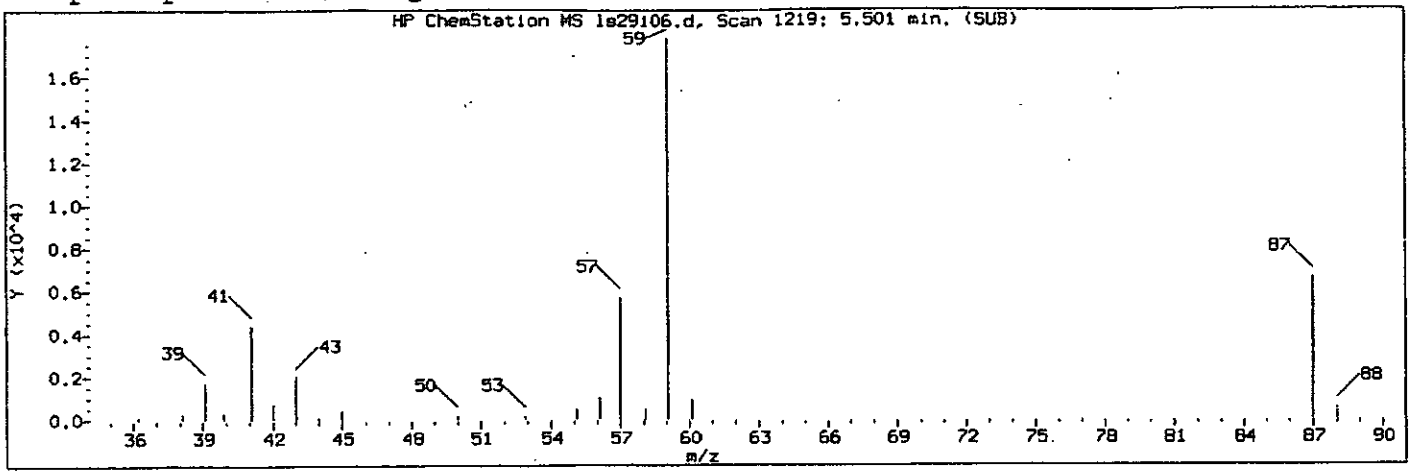
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 27
Compound Name : Allyl Chloride
Scan Number : 644
Retention Time (minutes): 3.652
Quant Ion : 41
Area : 40611
Concentration (ug/L) : 4.3308
Integration start scan : 613 Integration stop scan: 703
Y at integration start : 0 Y at integration end: 0

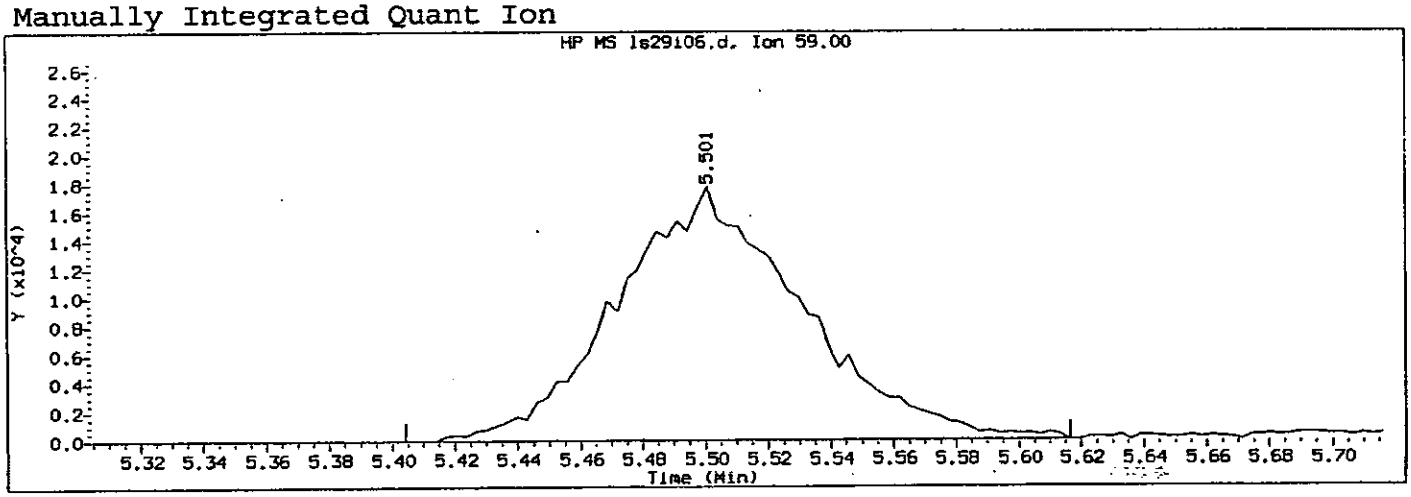
PTL03 8284

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i06.d, generated on 09/30/2009 at 01:03

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i06.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:29 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 23:47
Date, time and analyst ID of latest file update: 30-Sep-2009 01:02 sas00403

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 43
Compound Name : Ethyl t-Butyl Ether
Scan Number : 1219
Retention Time (minutes): 5.501
Quant Ion : 59
Area (flag) : 72357 M
Concentration (ug/L) : 3.6370
Integration start scan : 1188 Integration stop scan: 1254
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

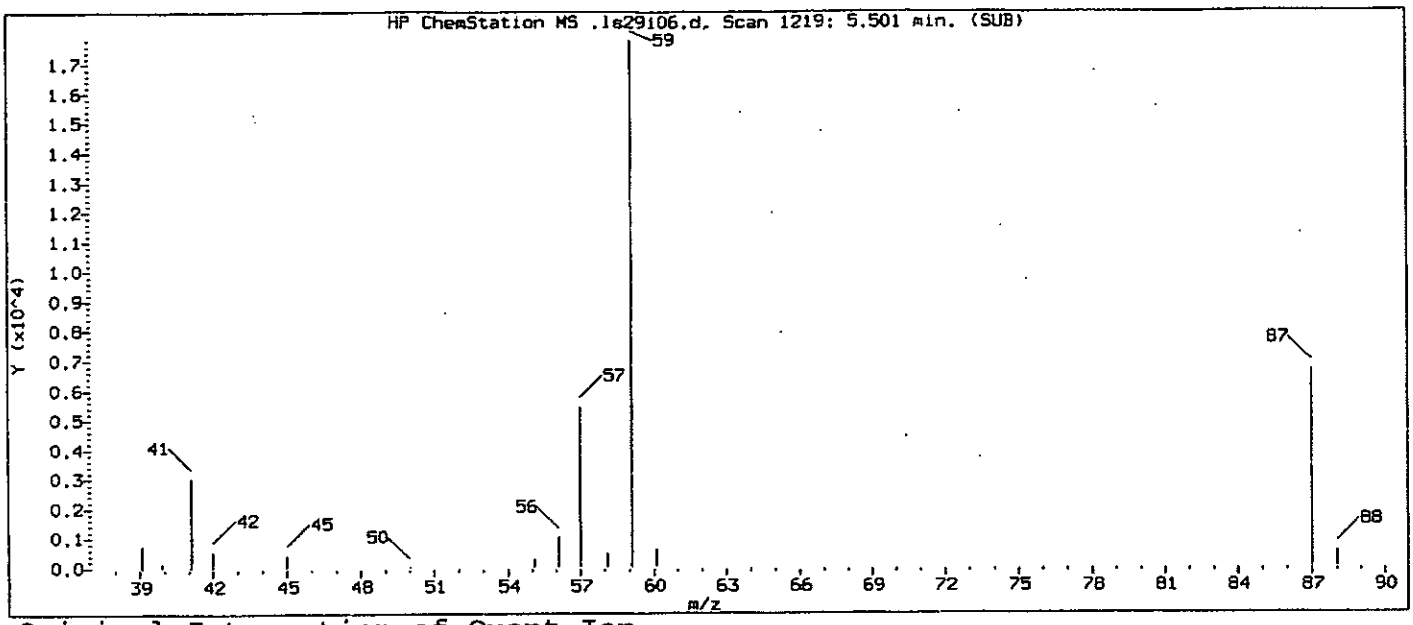
Analyst responsible for change: SAS/KDP 9/30/09

GC/MS audit/management approval: 9-30-09

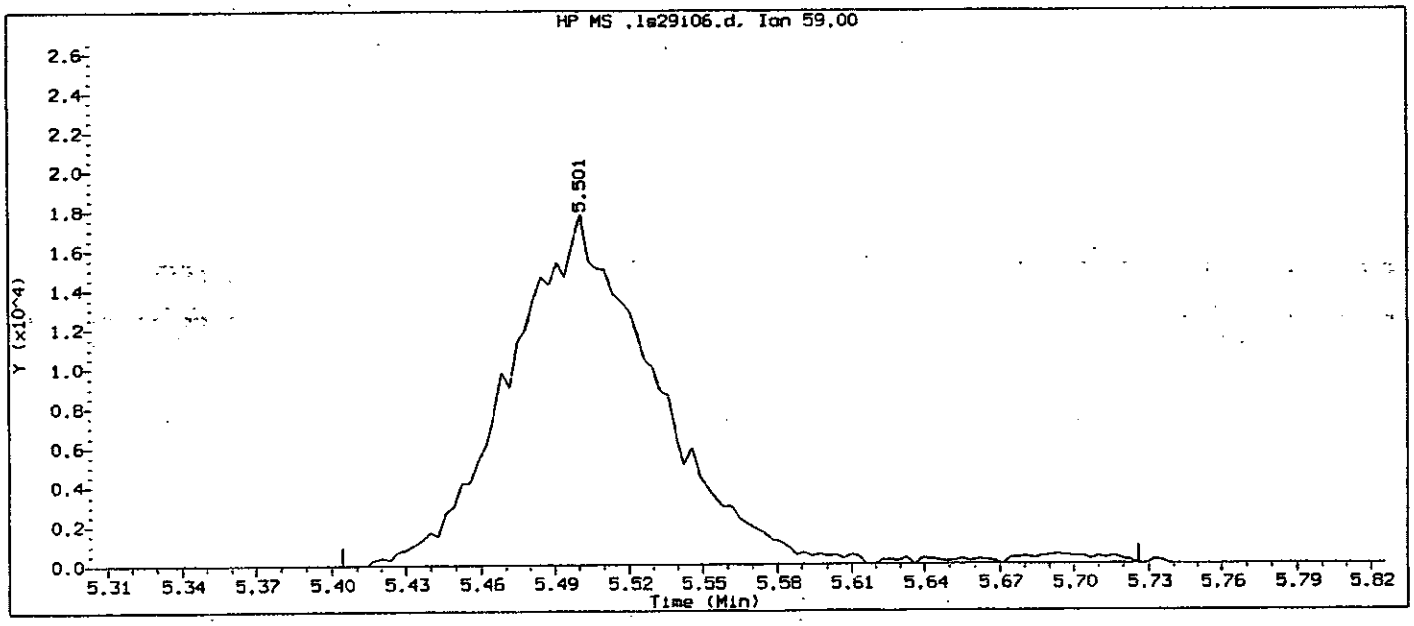
PTL03 0285

Manual Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i06.d, generated on 09/30/2009 at 01:03

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i06.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:29 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 23:47
Date, time and analyst ID of latest file update: 29-Sep-2009 23:47 Automation

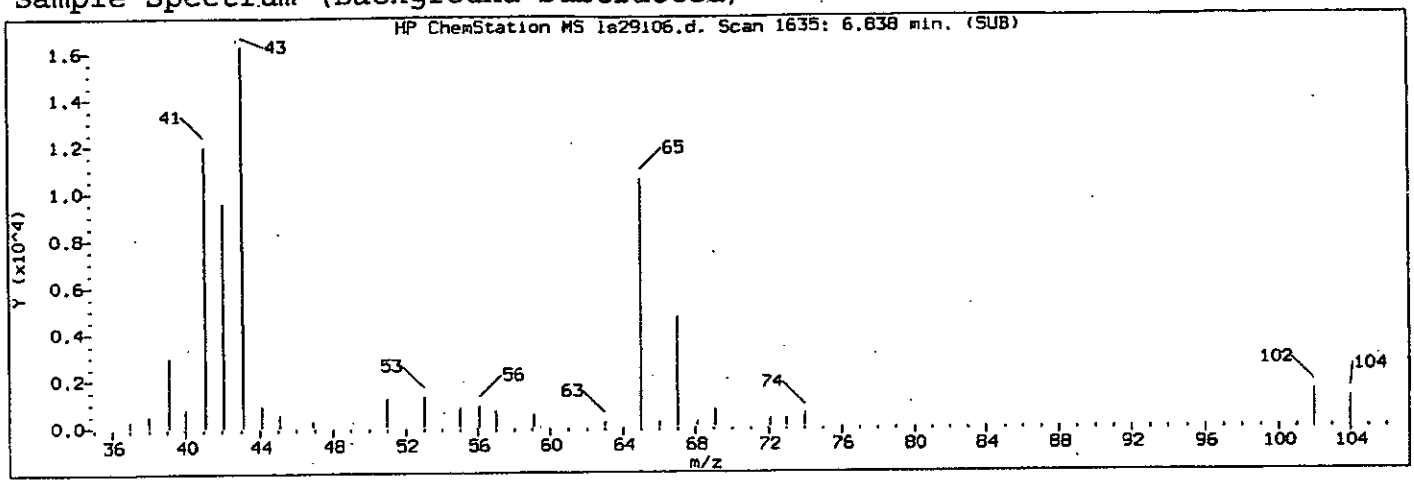
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 43
Compound Name : Ethyl t-Butyl Ether
Scan Number : 1219
Retention Time (minutes): 5.501
Quant Ion : 59
Area : 74064
Concentration (ug/L) : 3.6998
Integration start scan : 1188 Integration stop scan: 1288
Y at integration start : 0 Y at integration end: 0

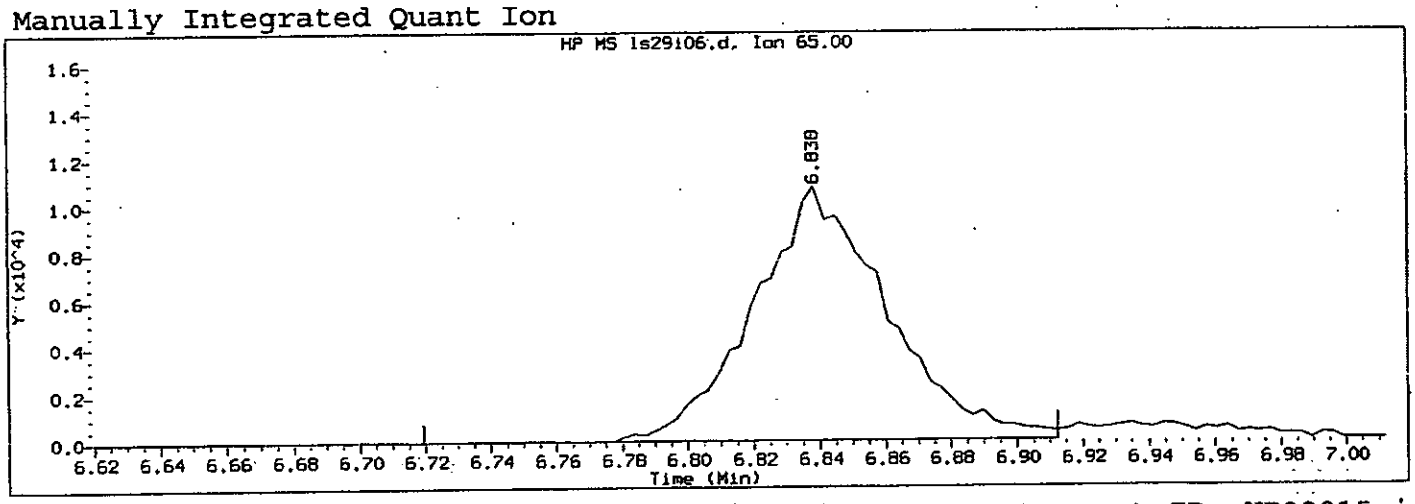
PTL03 0286

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i06.d, generated on 09/30/2009 at 01:03

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i06.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:29 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 23:47
Date, time and analyst ID of latest file update: 30-Sep-2009 01:02 sas00403

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	:	65
Compound Name	:	1,2-Dichloroethane-d4(mz65)
Scan Number	:	1635
Retention Time (minutes)	:	6.838
Quant Ion	:	65
Area (flag)	:	30142 M
Concentration (ug/L)	:	3.9535
Integration start scan	:	1597 Integration stop scan: 1657
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

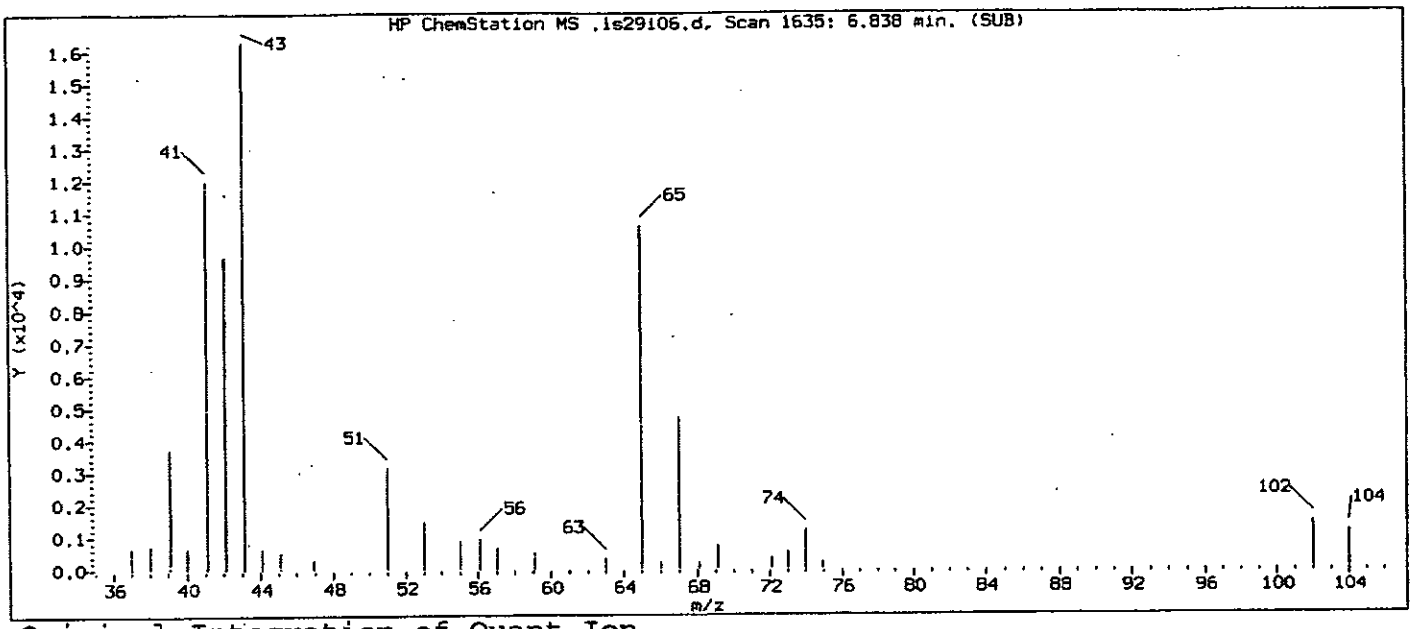
Analyst responsible for change: [signature] 9/30/09

GC/MS audit/management approval: [signature] 9-30-09

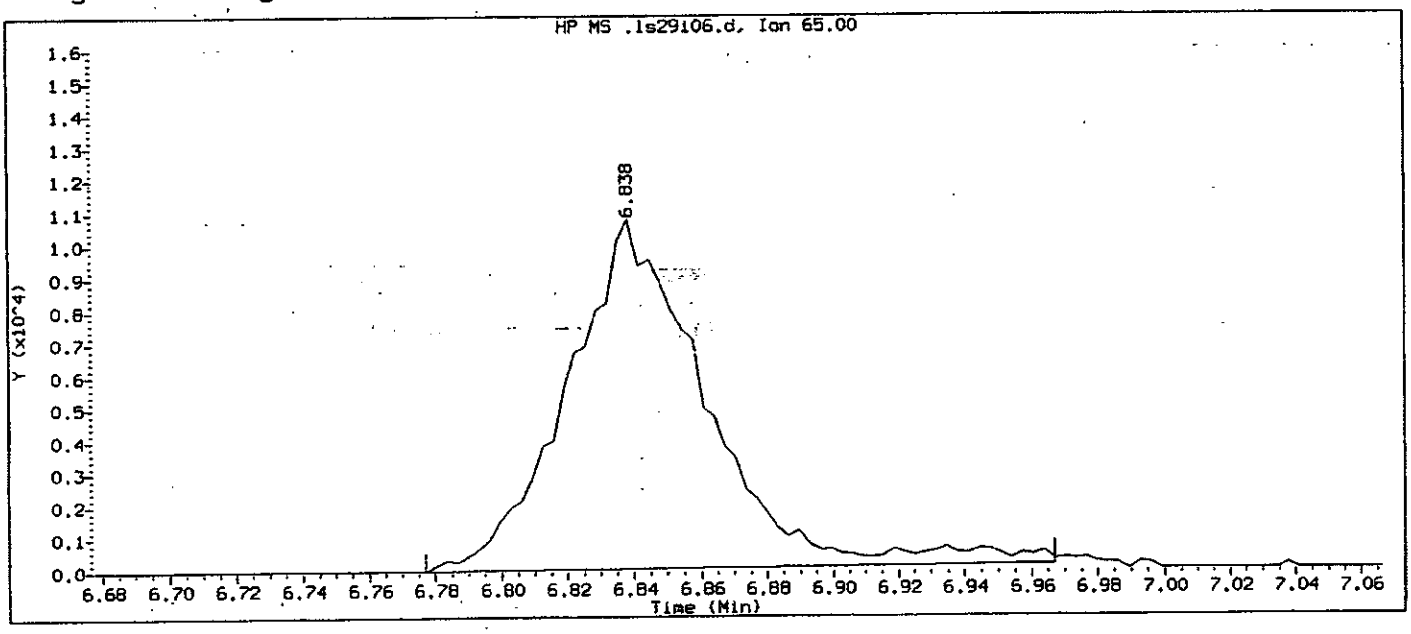
PTL03 8287

Manual Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i06.d, generated on 09/30/2009 at 01:03

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i06.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:29 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 23:47
Date, time and analyst ID of latest file update: 29-Sep-2009 23:47 Automation

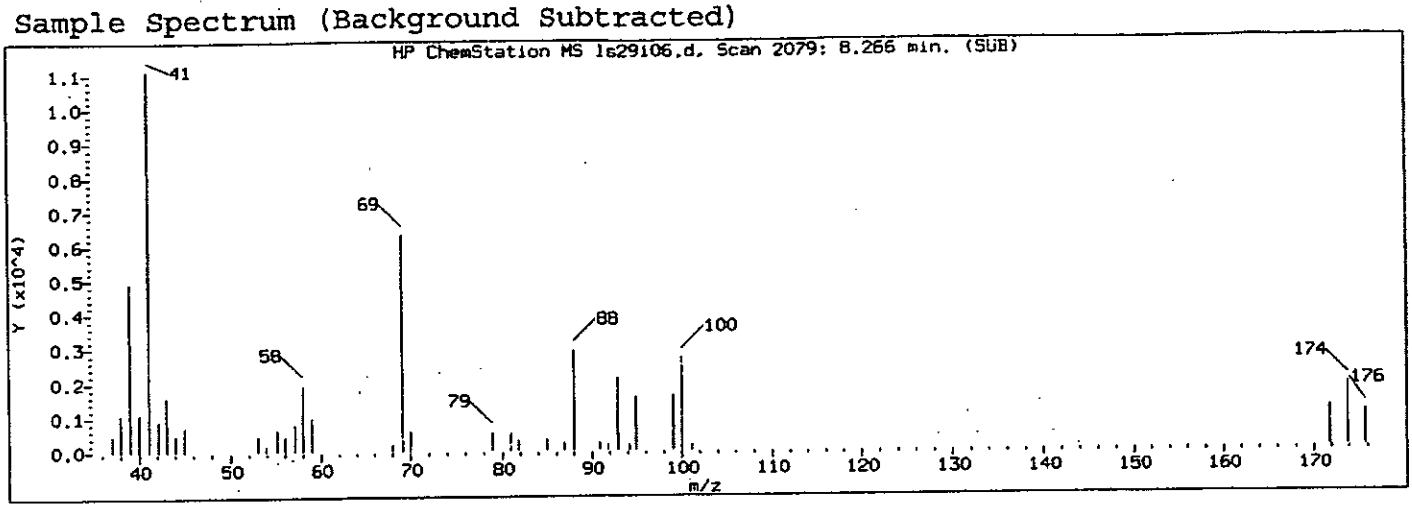
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 65
Compound Name : 1,2-Dichloroethane-d4(mz65)
Scan Number : 1635
Retention Time (minutes): 6.838
Quant Ion : 65
Area : 30923
Concentration (ug/L) : 4.0060
Integration start scan : 1615 Integration stop scan: 1674
Y at integration start : 0 Y at integration end: 154

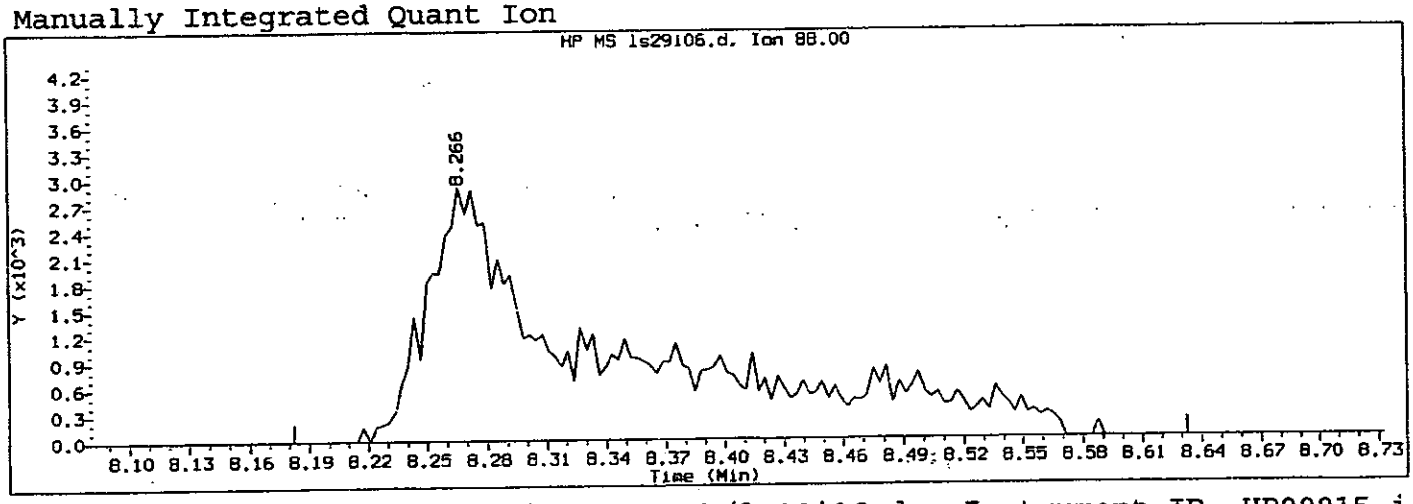
PTL03 0288

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i06.d, generated on 09/30/2009 at 01:03

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i06.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:29 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 23:47
Date, time and analyst ID of latest file update: 30-Sep-2009 01:02 sas00403

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	:	82
Compound Name	:	1,4-Dioxane
Scan Number	:	2079
Retention Time (minutes)	:	8.266
Quant Ion	:	88
Area (flag)	:	18368 M
Concentration (ug/L)	:	213.5775
Integration start scan	:	2052 Integration stop scan: 2192
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

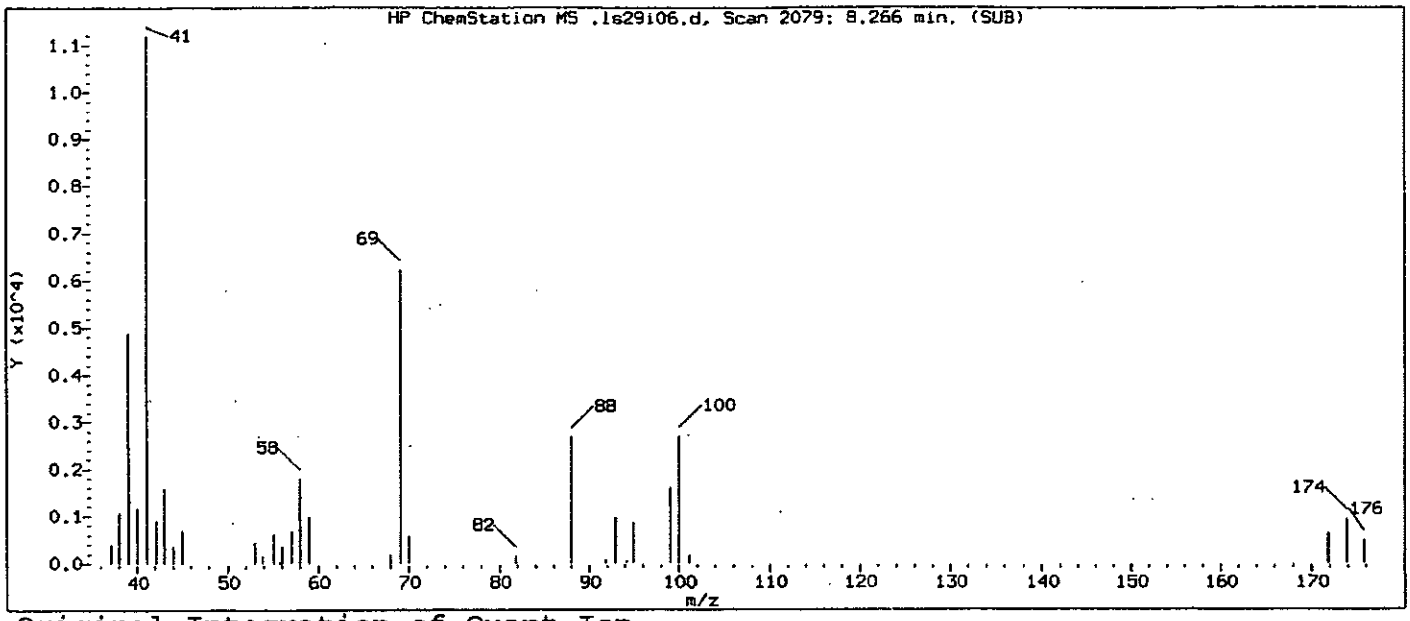
Analyst responsible for change: KDP 9/30/09

GC/MS audit/management approval: [signature] 9-30-09

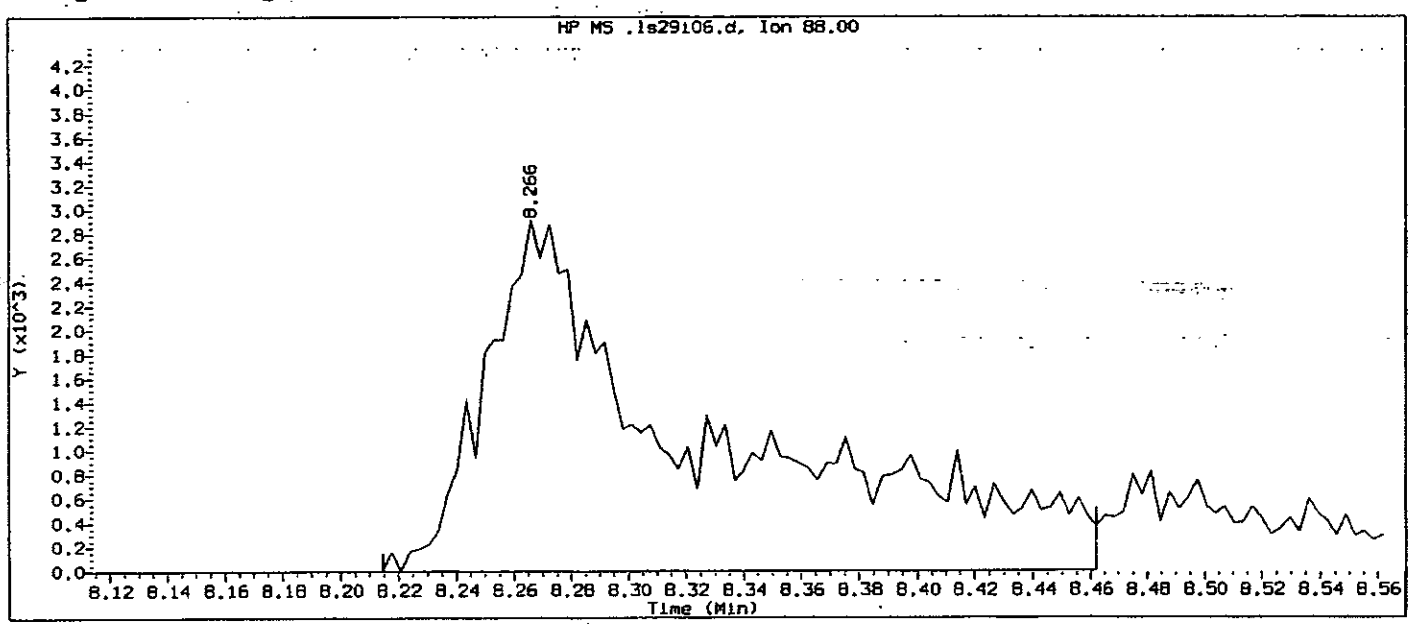
PTL03 0289

Manual Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i06.d, generated on 09/30/2009 at 01:03

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i06.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:29 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 23:47
Date, time and analyst ID of latest file update: 29-Sep-2009 23:47 Automation

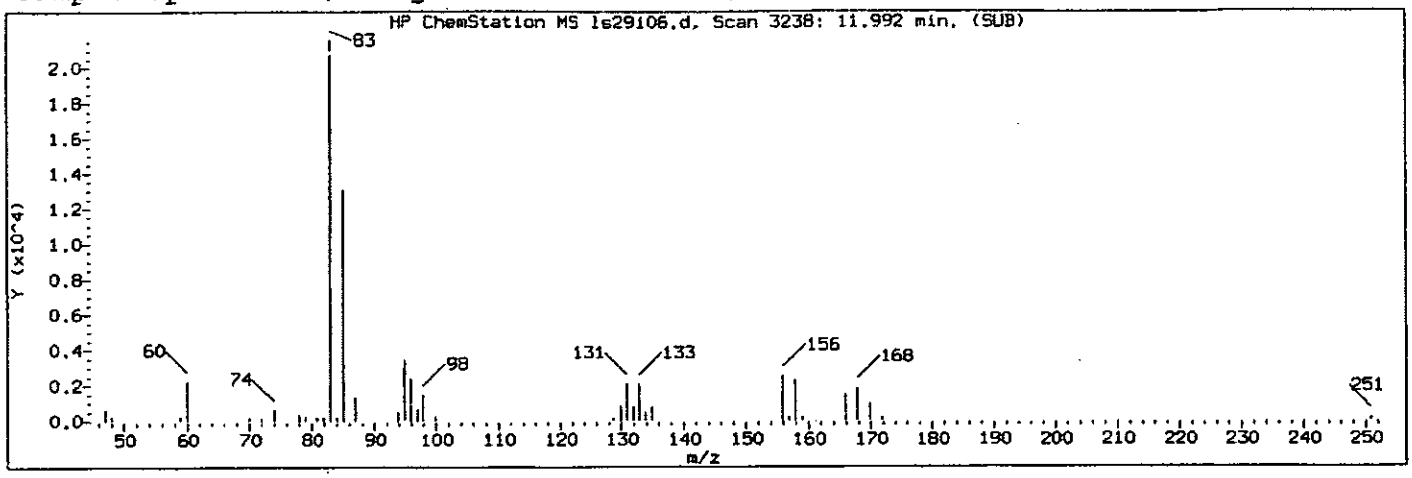
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 82
Compound Name	: 1,4-Dioxane
Scan Number	: 2079
Retention Time (minutes)	: 8.266
Quant Ion	: 88
Area	: 15392
Concentration (ug/L)	: 184.2860
Integration start scan	: 2062 Integration stop scan: 2139
Y at integration start	: 0 Y at integration end: 0

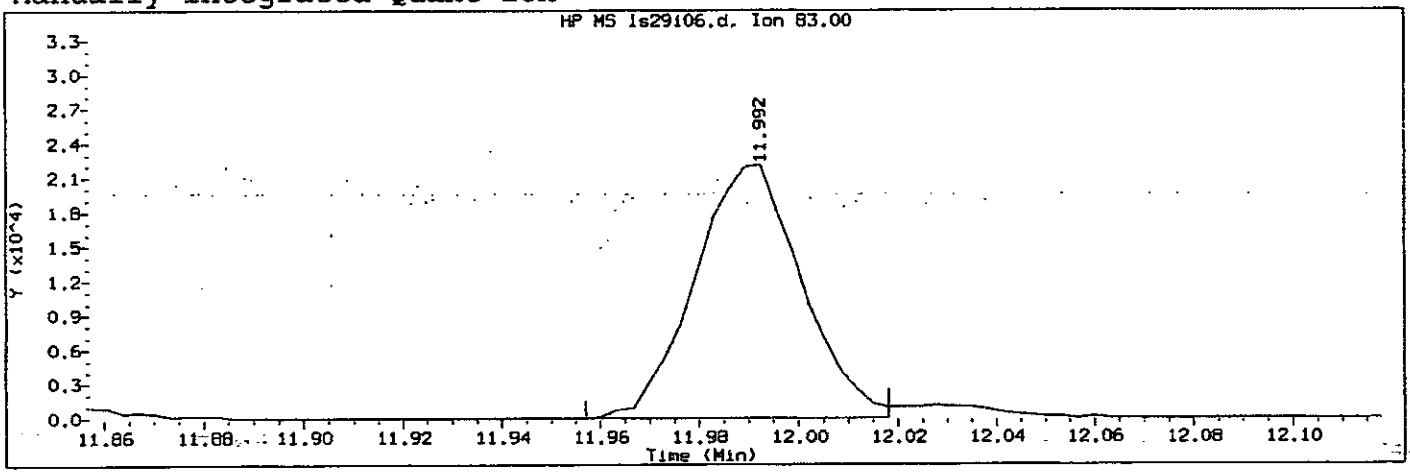
PTL03 0298

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i06.d, generated on 09/30/2009 at 01:03

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i06.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:29 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 23:47
Date, time and analyst ID of latest file update: 30-Sep-2009 17:13 kdp02245

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 120
Compound Name	: 1,1,2,2-Tetrachloroethane
Scan Number	: 3238
Retention Time (minutes)	: 11.992
Quant Ion	: 83
Area (flag)	: 33017 M
Concentration (ug/L)	: 3.5881
Integration start scan	: 3226 Integration stop scan: 3245
Y at integration start	: 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

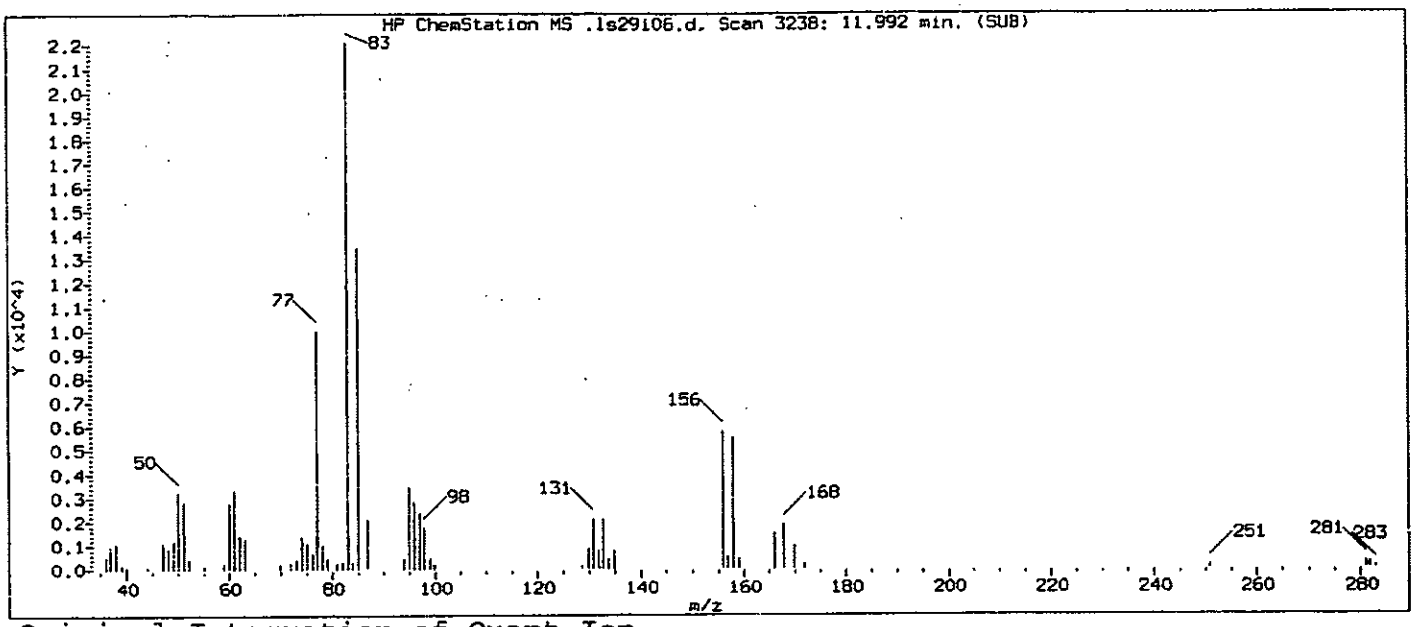
Analyst responsible for change: KDP 9/30/09

GC/MS audit/management approval: 9-30-09

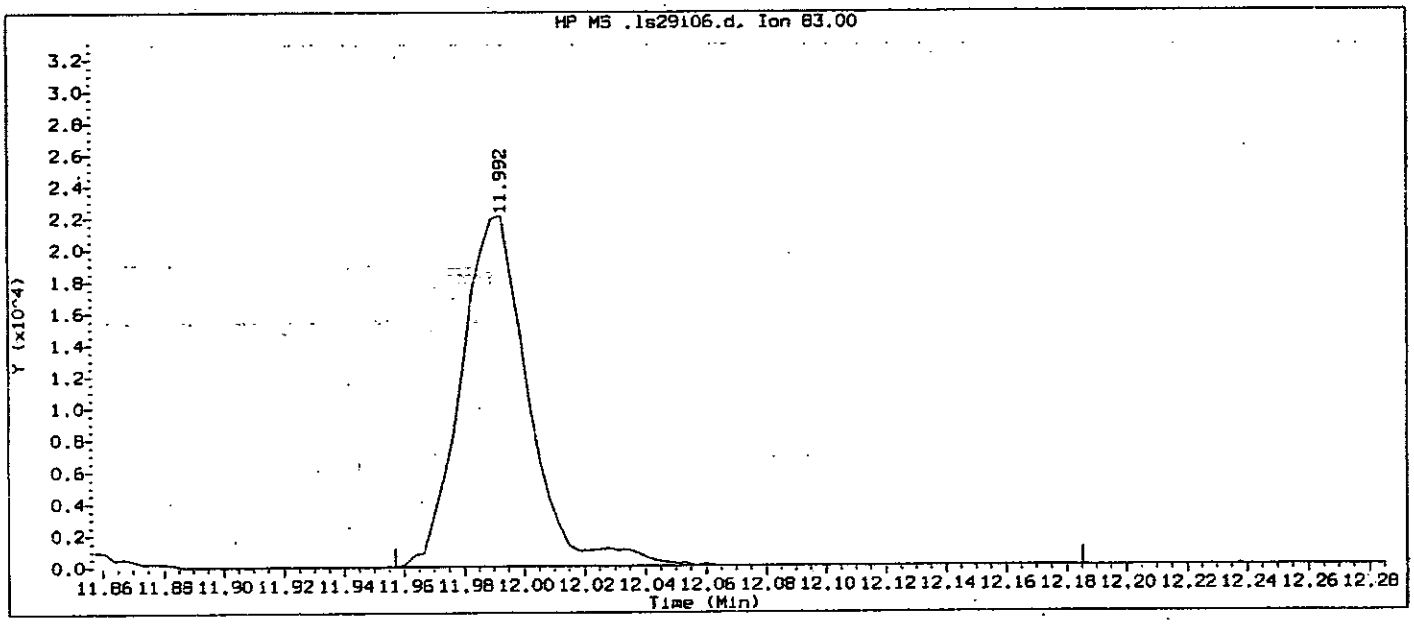
PTL03 0291

Manual Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i06.d, generated on 09/30/2009 at 17:13

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i06.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:29 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 23:47
Date, time and analyst ID of latest file update: 29-Sep-2009 23:47 Automation

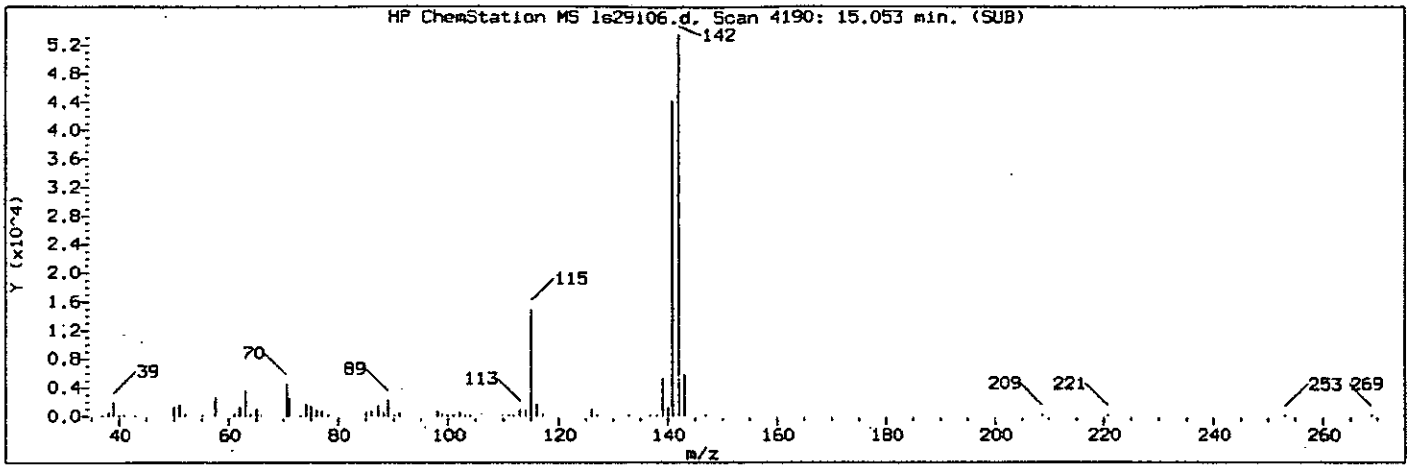
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	:	120
Compound Name	:	1,1,2,2-Tetrachloroethane
Scan Number	:	3238
Retention Time (minutes)	:	11.992
Quant Ion	:	83
Area	:	34499
Concentration (ug/L)	:	3.7079
Integration start scan	:	3226 Integration stop scan: 3297
Y at integration start	:	0 Y at integration end: 0

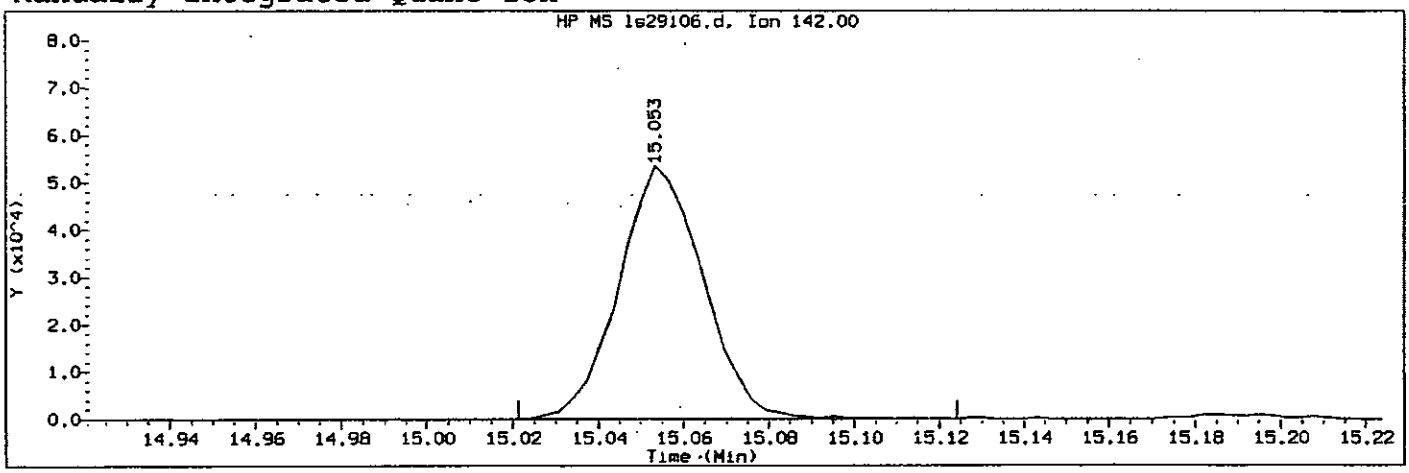
PTL03 8292

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i06.d, generated on 09/30/2009 at 17:13

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i06.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:29 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 23:47
Date, time and analyst ID of latest file update: 30-Sep-2009 01:02 sas00403

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	:	152
Compound Name	:	2-Methylnaphthalene
Scan Number	:	4190
Retention Time (minutes)	:	15.053
Quant Ion	:	142
Area (flag)	:	73507 M
Concentration (ug/L)	:	3.7489
Integration start scan	:	4179 Integration stop scan: 4211
Y at integration start	:	0 Y at integration end: 0

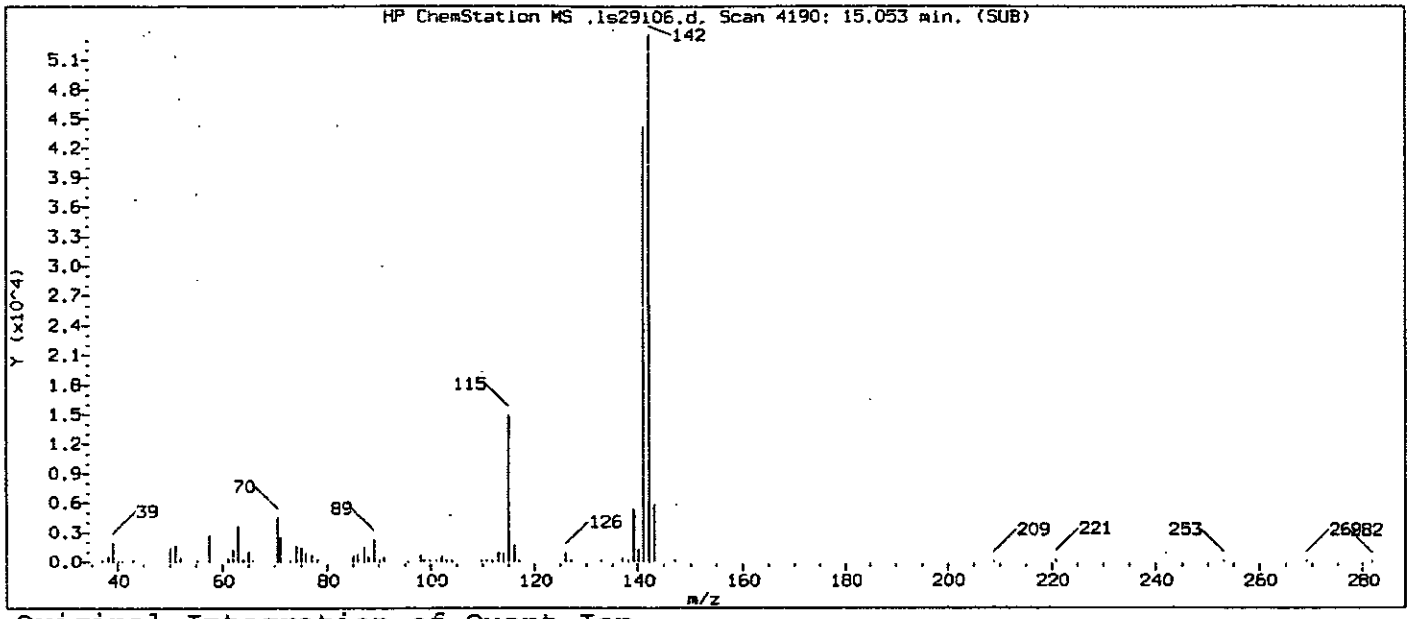
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MS/sas 9/30/09

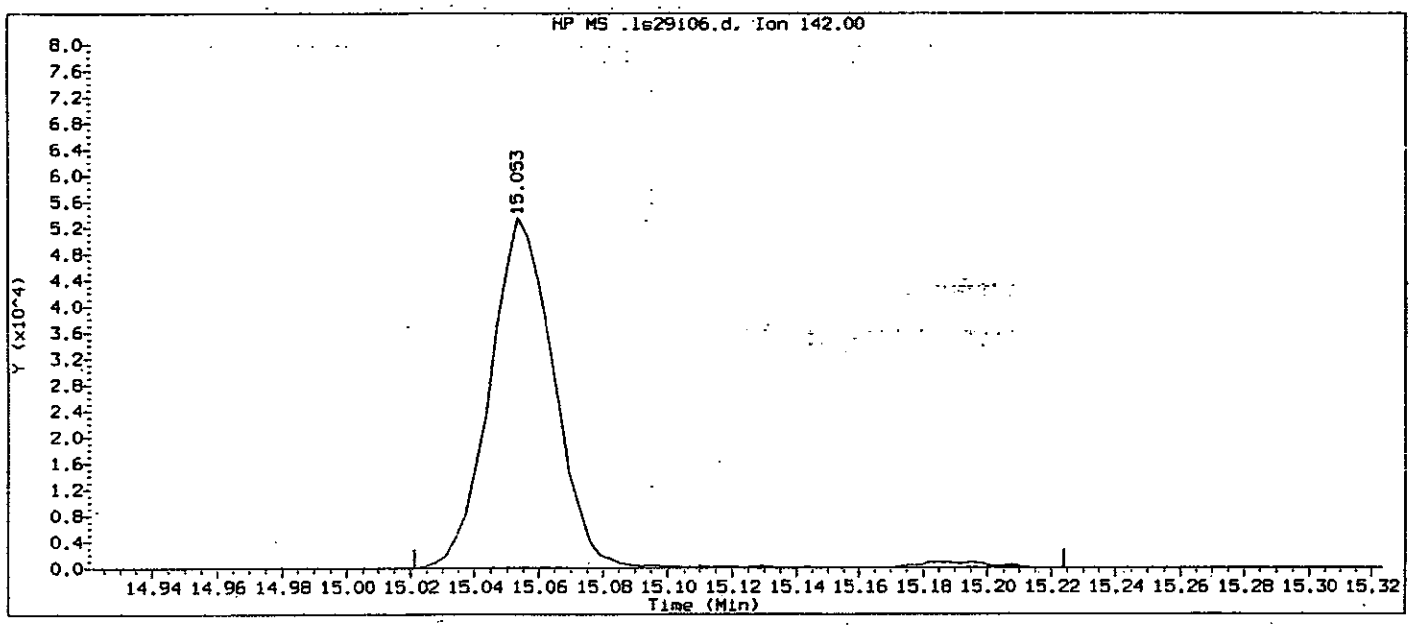
GC/MS audit/management approval: 9-30-09 PTL 8293

Manual Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i06.d, generated on 09/30/2009 at 01:03

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29i06.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:29 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 23:47
Date, time and analyst ID of latest file update: 29-Sep-2009 23:47 Automation

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	:	152
Compound Name	:	2-Methylnaphthalene
Scan Number	:	4190
Retention Time (minutes)	:	15.053
Quant Ion	:	142
Area	:	75000
Concentration (ug/L)	:	3.8130
Integration start scan	:	4179 Integration stop scan: 4242
Y at integration start	:	0 Y at integration end: 0

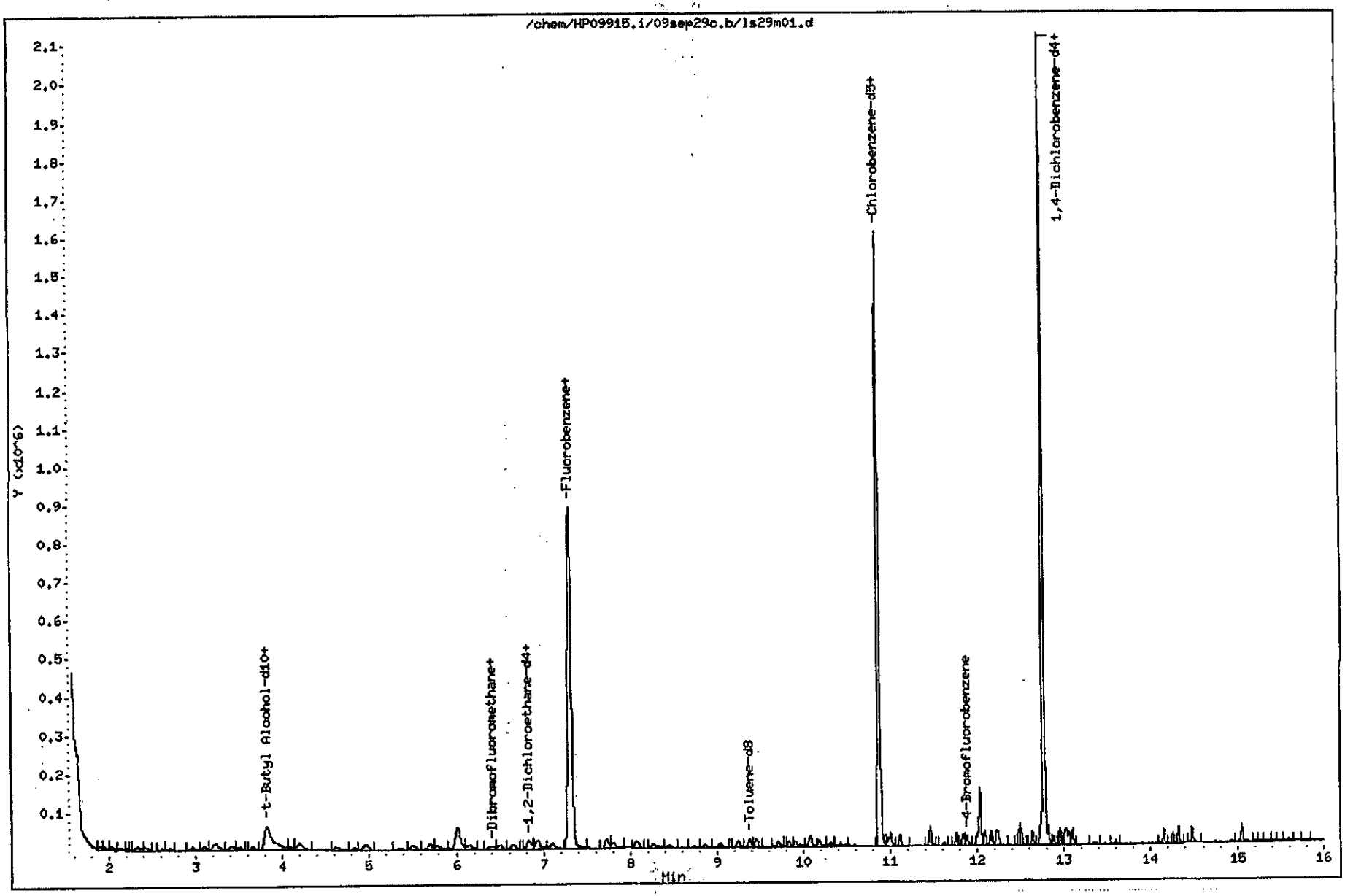
PTL03 0294

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29i06.d, generated on 09/30/2009 at 01:03

Data File: /chem/HP09915.i/09sep29c.b/ls29m01.d
Date : 29-SEP-2009 23:50
Client ID: 1PPB MDL
Sample Info: 1PPB MDL;1 PPB MDL;1;3;MDL/LOQ;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: KDP02245
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29m01.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:50 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260W
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:15 kdp02245

Sample Name: 1PPB MDL Lab Sample ID: 1 PPB MDL

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.777	85	6634	0.685
3) Chloromethane	(1)	1.890	50	7916	0.894
4) Vinyl Chloride	(1)	2.022	62	6232	0.775
8) Bromomethane	(1)	2.324	94	3948	0.473
9) Chloroethane	(1)	2.427	64	3411	0.921
10) Dichlorofluoromethane	(1)	2.620	67	7290	0.908
11) Trichlorofluoromethane	(1)	2.681	101	7598	0.754
15) Ethyl Ether	(1)	2.964	59	4356	1.003
16) Freon 123a	(1)	2.967	67	4247	0.883
19) 1,1-Dichloroethene	(1)	3.231	96	3692	0.814
20) Freon 113	(1)	3.256	101	4131	0.810
21) Acetone	(1)	3.260	43	7901	2.998
22) 2-Propanol	(4)	3.411	45	23788	36.425
23) Methyl Iodide	(1)	3.408	142	7231	0.771
24) Carbon Disulfide	(1)	3.507	76	14742	0.777
27) Allyl Chloride	(1)	3.658	41	8713	0.949
28) Methyl Acetate	(1)	3.674	43	9052	1.194
29) Methylene Chloride	(1)	3.803	84	12293	1.893
30) *t-Butyl Alcohol-d10	(4)	3.829	65	232472	250.000
31) t-Butyl Alcohol	(4)	3.941	59	19792	19.641
32) Acrylonitrile	(1)	4.134	53	3749	0.980
33) trans-1,2-Dichloroethene	(1)	4.186	96	4741	0.832
34) Methyl Tertiary Butyl Ether	(1)	4.215	73	18631	0.921
35) n-Hexane	(1)	4.617	57	6493	0.701
42) 1,2-Dichloroethene (total)	(1)		96	9797	1.661
36) 1,1-Dichloroethane	(1)	4.822	63	8896	0.820
40) di-Isopropyl Ether	(1)	4.948	45	19853	0.860
41) 2-Chloro-1,3-Butadiene	(1)	4.970	53	6893	0.702
43) Ethyl t-Butyl Ether	(1)	5.497	59	16748	0.847
44) cis-1,2-Dichloroethene	(1)	5.700	96	5056	0.829
45) 2-Butanone	(1)	5.729	43	11309	2.091
46) 2,2-Dichloropropane	(1)	5.703	77	6024	0.728
47) Propionitrile	(4)	5.787	54	29719	19.994
50) Methacrylonitrile	(1)	6.018	67	34974	9.206

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/1s29m01.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:50 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260W
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:15 kdp02245

Sample Name: 1PPB MDL Lab Sample ID: 1 PPB MDL

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
51) Bromochloromethane	(1)	6.025	128	2544	0.870
52) Tetrahydrofuran	(4)	6.105	71	2174	1.918
53) Chloroform	(1)	6.153	83	8042	0.819
57) 1,1,1-Trichloroethane	(1)	6.417	97	7700	0.817
60) Cyclohexane	(1)	6.514	56	7841	0.711
61) 1,1-Dichloropropene	(1)	6.658	75	5726	0.706
62) Carbon Tetrachloride	(1)	6.655	117	4981	0.688
63) Isobutyl Alcohol	(4)	6.825	41	20817	49.520
67) Benzene	(1)	6.928	78	19946	0.839
68) 1,2-Dichloroethane	(1)	6.951	62	7884	0.868
71) t-Amyl Methyl Ether	(1)	7.105	73	14834	0.807
72) *Fluorobenzene	(1)	7.308	96	1195542	50.000
74) n-Heptane	(1)	7.317	43	8087	0.799
75) n-Butanol	(4)	7.729	56	29073	87.440
76) Trichloroethene	(1)	7.806	95	4454	0.758
77) Methylcyclohexane	(1)	8.067	83	6595	0.720
79) 1,2-Dichloropropane	(1)	8.086	63	5488	0.827
80) Dibromomethane	(1)	8.243	93	3279	0.798
81) Methyl Methacrylate	(1)	8.272	69	4460	0.738
82) 1,4-Dioxane	(4)	8.279	88	4398	49.939
84) Bromodichloromethane	(1)	8.456	83	5404	0.736
85) 2-Nitropropane	(1)	8.739	41	4155	1.666
86) 2-Chloroethyl Vinyl Ether	(1)	8.870	63	4357	0.860
87) cis-1,3-Dichloropropene	(1)	9.038	75	7169	0.745
89) 4-Methyl-2-Pentanone	(1)	9.247	43	16925	1.542
93) Toluene	(2)	9.459	92	11176	0.787
94) trans-1,3-Dichloropropene	(2)	9.710	75	6658	0.700
95) Ethyl Methacrylate	(2)	9.825	69	7117	0.723
96) 1,1,2-Trichloroethane	(2)	9.906	97	5235	0.945
97) Tetrachloroethene	(2)	10.070	166	4942	0.801
98) 1,3-Dichloropropane	(2)	10.083	76	8766	0.855
100) 2-Hexanone	(2)	10.182	43	13791	1.606
102) Dibromochloromethane	(2)	10.317	129	4300	0.703
103) 1,2-Dibromoethane	(2)	10.433	107	5160	0.833

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29m01.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:50 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260W
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:15 kdp02245

Sample Name: 1PPB MDL Lab Sample ID: 1 PPB MDL

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
104) *Chlorobenzene-d5	(2)	10.874	117	868367	50.000
105) Chlorobenzene	(2)	10.899	112	13661	0.840
107) 1,1,1,2-Tetrachloroethane	(2)	10.973	131	4086	0.728
108) Ethylbenzene	(2)	11.005	91	20322	0.729
109) m+p-Xylene	(2)	11.115	106	8193	0.759
110) Xylene (Total)	(2)		106	16394	1.552
111) o-Xylene	(2)	11.455	106	8201	0.794
112) Styrene	(2)	11.465	104	11776	0.691
113) Bromoform	(2)	11.616	173	3101	0.675
115) Isopropylbenzene	(2)	11.764	105	19046	0.705
117) Cyclohexanone	(4)	11.835	55	14889	46.022
120) 1,1,2,2-Tetrachloroethane	(3)	11.986	83	7886	0.868
122) Bromobenzene	(3)	12.008	156	5818	0.843
123) 1,2,3-Trichloropropane	(3)	12.028	110	2557	0.932
124) trans-1,4-Dichloro-2-Butene	(3)	12.034	53	25531	7.817
125) n-Propylbenzene	(3)	12.089	120	5690	0.760
126) 2-Chlorotoluene	(3)	12.156	126	5306	0.821
127) 1,3,5-Trimethylbenzene	(3)	12.217	120	8388	0.761
128) 4-Chlorotoluene	(3)	12.243	126	5586	0.828
130) tert-Butylbenzene	(3)	12.472	134	3887	0.770
131) Pentachloroethane	(3)	12.484	167	3412	0.784
132) 1,2,4-Trimethylbenzene	(3)	12.507	105	17860	0.763
134) sec-Butylbenzene	(3)	12.632	134	4032	0.700
135) 1,3-Dichlorobenzene	(3)	12.722	146	11102	0.856
136) p-Isopropyltoluene	(3)	12.735	134	5104	0.775
137) *1,4-Dichlorobenzene-d4	(3)	12.767	152	479839	50.000
138) 1,4-Dichlorobenzene	(3)	12.783	146	12889	0.938
139) 1,2,3-Trimethylbenzene	(3)	12.816	120	9329	0.884
140) Benzyl Chloride	(3)	12.880	91	12683	0.701
141) 1,3-Diethylbenzene	(3)	12.951	119	11362	0.772
142) 1,4-Diethylbenzene	(3)	13.012	119	11478	0.781
143) n-Butylbenzene	(3)	13.028	92	9452	0.781
144) 1,2-Dichlorobenzene	(3)	13.060	146	11612	0.911
145) 1,2-Diethylbenzene	(3)	13.098	119	9550	0.785

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29m01.d Instrument ID: HP09915.i
Injection date and time: 29-SEP-2009 23:50 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260W
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:15 kdp02245

Sample Name: 1PPB MDL Lab Sample ID: 1 PPB MDL

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
146) 1,2-Dibromo-3-Chloropropane	(3)	13.594	75	1699	0.821
147) 1,2,4-Trichlorobenzene	(3)	14.153	180	9865	0.984
148) Hexachlorobutadiene	(3)	14.253	225	4735	0.992
149) Naphthalene	(3)	14.324	128	28344	0.899
150) 1,2,3-Trichlorobenzene	(3)	14.475	180	10026	1.014
152) 2-Methylnaphthalene	(3)	15.057	142	19072	0.986
54)$Dibromofluoromethane	(1)	6.375	113	4802	0.834
64)$1,2-Dichloroethane-d4	(1)	6.841	102	1160	0.833
91)$Toluene-d8	(2)	9.378	98	18190	0.802
119)$4-Bromofluorobenzene	(2)	11.883	95	7167	0.860

$ = Compound is a surrogate standard.

INITIAL CALIBRATION VERIFICATION

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09915 ICV Date: 09/30/09 Time: 04:07

Lab File ID: ls29cv2.d Init. Calib. Date(s): 09/29/09 09/29/09

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

	COMPOUND	RRF	RRF	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	Dichlorodifluoromethane	0.4051	0.2409	11.89	20	-41	
#	Chloromethane	0.3703	0.3026	16.34	20	-18	#
*	Vinyl Chloride	0.3363	0.2812	16.72	20	-16	*
	Bromomethane	0.1688	0.1112	11.76	20	-41	
	Chloroethane	0.1549	0.1231	15.89	20	-21	
	Dichlorofluoromethane	0.3358	0.3576	21.30	20	6	
	Trichlorofluoromethane	0.4212	0.3633	17.25	20	-14	
	Ethyl Ether	0.1817	0.1992	21.93	20	10	
	Freon 123a	0.2013	0.2062	20.49	20	2	
	Acrolein	1.7647	1.6048	141.40	150	-6	
*	1,1-Dichloroethene	0.1896	0.1923	20.28	20	1	*
	Freon 113	0.2132	0.2031	19.05	20	-5	
	Acetone	0.1102	0.1215	165.39	150	10	
	2-Propanol	0.7023	0.8461	180.71	150	20	
	Methyl Iodide	0.3920	0.4071	20.77	20	4	
	Carbon Disulfide	0.7931	0.7420	18.71	20	-6	
	Allyl Chloride	0.3841	0.4790	24.94	20	25	
	Methyl Acetate	0.3170	0.3736	23.58	20	18	
	Methylene Chloride	0.2716	0.2735	20.14	20	1	
	t-Butyl Alcohol	1.0837	1.0961	202.30	200	1	
	Acrylonitrile	0.1600	0.1607	100.42	100	0	
	trans-1,2-Dichloroethene	0.2382	0.2492	20.93	20	5	
	Methyl Tertiary Butyl Ether	0.8461	0.8257	19.52	20	-2	
	n-Hexane	0.3871	0.3588	18.54	20	-7	
	1,2-Dichloroethene (total)	0.2467	0.2562	41.55	40	4	
#	1,1-Dichloroethane	0.4535	0.4778	21.07	20	5	#
	di-Isopropyl Ether	0.9657	0.9907	20.52	20	3	
	2-Chloro-1,3-Butadiene	0.4108	0.4349	21.17	20	6	
	Ethyl t-Butyl Ether	0.8266	0.8218	19.88	20	-1	
	cis-1,2-Dichloroethene	0.2552	0.2632	20.63	20	3	
	2-Butanone	0.2262	0.2312	153.32	150	2	
	2,2-Dichloropropane	0.3462	0.3461	19.99	20	0	
	Propionitrile	1.5985	1.7237	161.76	150	8	
	Methacrylonitrile	0.1589	0.1601	151.15	150	1	
	Bromochloromethane	0.1223	0.1286	21.03	20	5	
	Tetrahydrofuran	1.2191	1.4387	118.01	100	18	

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

PTL03 0300

INITIAL CALIBRATION VERIFICATION

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09915 ICV Date: 09/30/09 Time: 04:07

Lab File ID: ls29cv2.d Init. Calib. Date(s): 09/29/09 09/29/09

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

	COMPOUND	RRF	RRF	ACTUAL CONC.	TRUE CONC.	% DRIFT	
*	Chloroform	0.4109	0.4228	20.58	20	3	*
	1,1,1-Trichloroethane	0.3943	0.4092	20.75	20	4	
	Cyclohexane	0.4609	0.4407	19.12	20	-4	
	1,1-Dichloropropene	0.3391	0.3403	20.07	20	0	
	Carbon Tetrachloride	0.3030	0.3047	20.12	20	1	
	Isobutyl Alcohol	0.4521	0.4318	477.57	500	-4	
	Benzene	0.9940	1.0325	20.77	20	4	
	1,2-Dichloroethane	0.3798	0.3831	20.17	20	1	
	t-Amyl Methyl Ether	0.7689	0.7534	19.60	20	-2	
	n-Heptane	0.4232	0.4047	19.13	20	-4	
	n-Butanol	0.3576	0.3148	880.40	1000	-12	
	Trichloroethene	0.2458	0.2550	20.75	20	4	
	Methylcyclohexane	0.3832	0.4150	21.66	20	8	
*	1,2-Dichloropropane	0.2774	0.2809	20.25	20	1	*
	Dibromomethane	0.1718	0.1694	19.72	20	-1	
	Methyl Methacrylate	0.2527	0.2466	19.52	20	-2	
	1,4-Dioxane	0.0947	0.0828	436.88	500	-13	
	Bromodichloromethane	0.3069	0.3068	19.99	20	0	
	2-Nitropropane	0.1043	0.0921	17.66	20	-12	
	2-Chloroethyl Vinyl Ether	0.2119	0.2142	20.22	20	1	
	cis-1,3-Dichloropropene	0.4026	0.4157	20.65	20	3	
	4-Methyl-2-Pentanone	0.4590	0.4526	98.61	100	-1	
*	Toluene	0.8173	0.8613	21.08	20	5	*
	trans-1,3-Dichloropropene	0.5478	0.5466	19.96	20	0	
	Ethyl Methacrylate	0.5665	0.5735	20.25	20	1	
	1,1,2-Trichloroethane	0.3189	0.3246	20.36	20	2	
	Tetrachloroethene	0.3552	0.3835	21.60	20	8	
	1,3-Dichloropropane	0.5905	0.5917	20.04	20	0	
	2-Hexanone	0.4945	0.4769	96.44	100	-4	
	Dibromochloromethane	0.3519	0.3454	19.63	20	-2	
	1,2-Dibromoethane	0.3566	0.3545	19.88	20	-1	
#	Chlorobenzene	0.9363	0.9900	21.15	20	6	#
	1,1,1,2-Tetrachloroethane	0.3230	0.3168	19.61	20	-2	
*	Ethylbenzene	1.6060	1.6844	20.98	20	5	*
	m+p-Xylene	0.6219	0.6610	42.51	40	6	
	Xylene (Total)	0.6084	0.6536	63.98	60	7	

PTL03 0301

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

INITIAL CALIBRATION VERIFICATION

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09915 ICV Date: 09/30/09 Time: 04:07

Lab File ID: ls29cv2.d Init. Calib. Date(s): 09/29/09 09/29/09

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

	COMPOUND	RRF	RRF	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	o-Xylene	0.5950	0.6387	21.47	20	7	
	Styrene	0.9810	1.0406	21.22	20	6	
#	Bromoform	0.2644	0.2509	18.98	20	-5	#
	Isopropylbenzene	1.5562	1.5909	20.45	20	2	
	Cyclohexanone	0.3479	0.2993	430.09	500	-14	
#	1,1,2,2-Tetrachloroethane	0.9462	0.9434	19.94	20	0	#
	Bromobenzene	0.7195	0.7426	20.64	20	3	
	1,2,3-Trichloropropane	0.2860	0.2834	19.81	20	-1	
	trans-1,4-Dichloro-2-Butene	0.3403	0.3500	102.83	100	3	
	n-Propylbenzene	0.7803	0.8249	21.14	20	6	
	2-Chlorotoluene	0.6734	0.7026	20.87	20	4	
	1,3,5-Trimethylbenzene	1.1486	1.1981	20.86	20	4	
	4-Chlorotoluene	0.7026	0.7396	21.05	20	5	
	tert-Butylbenzene	0.5260	0.5417	20.60	20	3	
	Pentachloroethane	0.4535	0.4292	18.93	20	-5	
	1,2,4-Trimethylbenzene	2.4401	2.5483	20.89	20	4	
	sec-Butylbenzene	0.6003	0.6373	21.23	20	6	
	1,3-Dichlorobenzene	1.3514	1.4085	20.85	20	4	
	p-Isopropyltoluene	0.6864	0.7352	21.42	20	7	
	1,4-Dichlorobenzene	1.4315	1.4872	20.78	20	4	
	1,2,3-Trimethylbenzene	1.0991	1.0955	19.93	20	0	
	Benzyl Chloride	1.8846	1.8376	19.50	20	-2	
	1,3-Diethylbenzene	1.5338	1.5572	20.30	20	2	
	1,4-Diethylbenzene	1.5316	1.5649	20.44	20	2	
	n-Butylbenzene	1.2607	1.3381	21.23	20	6	
	1,2-Dichlorobenzene	1.3278	1.3566	20.43	20	2	
	1,2-Diethylbenzene	1.2682	1.2727	20.07	20	0	
	1,2-Dibromo-3-Chloropropane	0.2155	0.1965	18.23	20	-9	
	1,2,4-Trichlorobenzene	1.0443	1.0709	20.51	20	3	
	Hexachlorobutadiene	0.4976	0.4821	19.38	20	-3	
	Naphthalene	3.2870	3.2183	19.58	20	-2	
	1,2,3-Trichlorobenzene	1.0303	1.0314	20.02	20	0	
	2-Methylnaphthalene	2.0161	1.6252	16.12	20	-19	

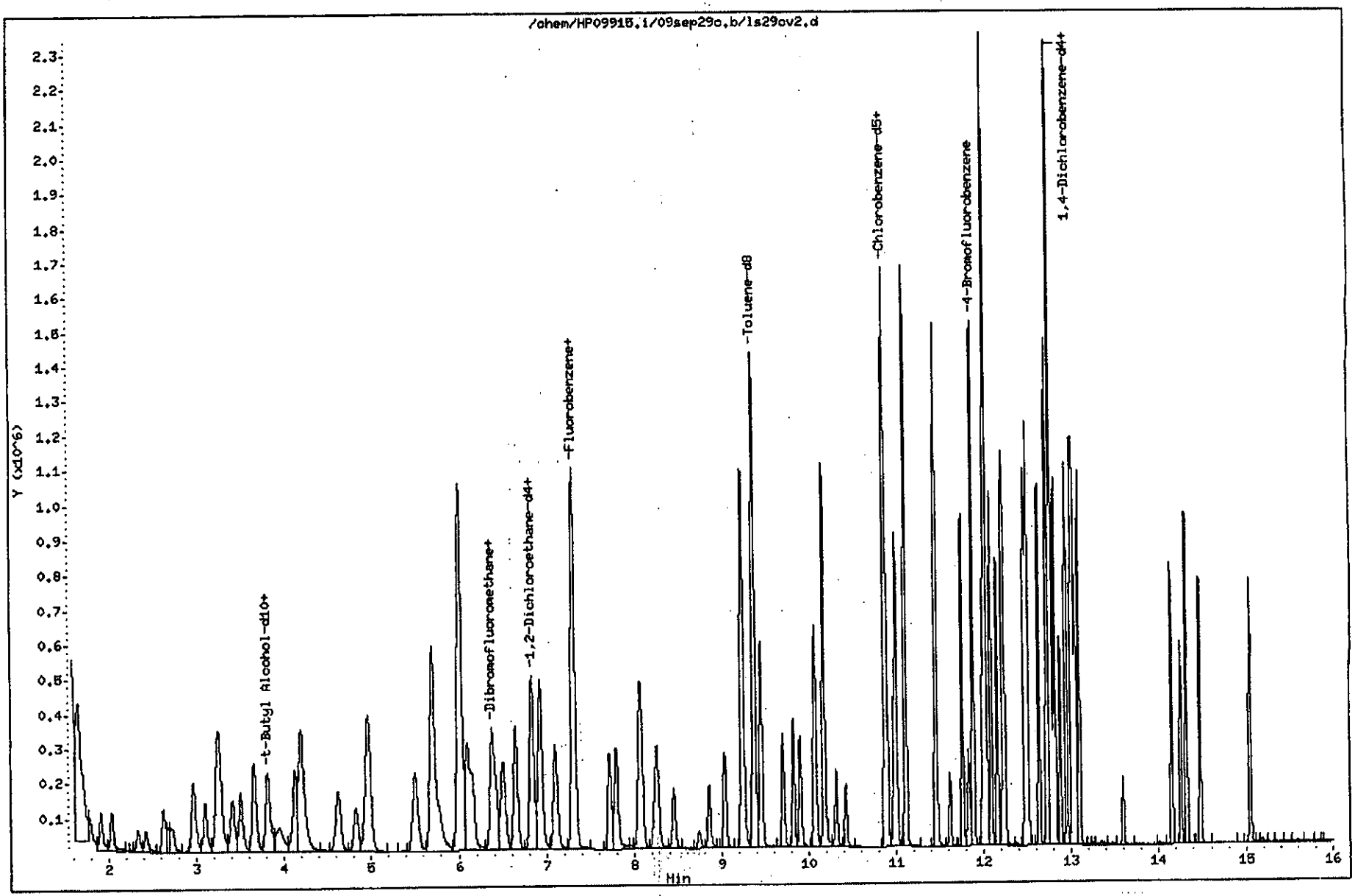
Average %Drift 6

PTL03 0302

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

Data File: /chem/HP09915.i/09sep29c.b/ls29cv2.d
Date : 30-SEP-2009 04:07
Client ID: LICV
Sample Info: LICV;LICV;1;3;LCS;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i
Operator: SAS00403
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29cv2.d Instrument ID: HP09915.i
Injection date and time: 30-SEP-2009 04:07 Analyst ID: SAS00403

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260W
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:15 kdp02245

Sample Name: LICV Lab Sample ID: LICV

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.777	85	115739	11.892
3) Chloromethane	(1)	1.909	50	145398	16.344
4) Vinyl Chloride	(1)	2.035	62	135110	16.722
8) Bromomethane	(1)	2.330	94	53412	11.760
9) Chloroethane	(1)	2.420	64	59153	15.895
10) Dichlorofluoromethane	(1)	2.623	67	171804	21.298
11) Trichlorofluoromethane	(1)	2.713	101	174570	17.253
15) Ethyl Ether	(1)	2.957	59	95712	21.927
16) Freon 123a	(1)	2.967	67	99067	20.489
18) Acrolein	(4)	3.092	56	204889	141.396
19) 1,1-Dichloroethene	(1)	3.227	96	92389	20.280
20) Freon 113	(1)	3.250	101	97608	19.052
21) Acetone	(1)	3.263	43	437936M	165.390
22) 2-Propanol	(4)	3.417	45	108025	180.706
23) Methyl Iodide	(1)	3.411	142	195612	20.768
24) Carbon Disulfide	(1)	3.501	76	356513	18.711
27) Allyl Chloride	(1)	3.652	41	230142	24.942
28) Methyl Acetate	(1)	3.668	43	179529	23.575
29) Methylene Chloride	(1)	3.809	84	131436	20.142
30) *t-Butyl Alcohol-d10	(4)	3.832	65	212794	250.000
31) t-Butyl Alcohol	(4)	3.945	59	186603	202.303
32) Acrylonitrile	(1)	4.128	53	386084	100.416
33) trans-1,2-Dichloroethene	(1)	4.199	96	119735	20.925
34) Methyl Tertiary Butyl Ether	(1)	4.205	73	396739	19.519
35) n-Hexane	(1)	4.620	57	172417	18.538
42) 1,2-Dichloroethene (total)	(1)		96	246196	41.552
36) 1,1-Dichloroethane	(1)	4.822	63	229594	21.072
40) di-Isopropyl Ether	(1)	4.957	45	476027	20.518
41) 2-Chloro-1,3-Butadiene	(1)	4.970	53	208952	21.170
43) Ethyl t-Butyl Ether	(1)	5.501	59	394873M	19.885
44) cis-1,2-Dichloroethene	(1)	5.694	96	126461	20.627
45) 2-Butanone	(1)	5.706	43	833012	153.317
46) 2,2-Dichloropropane	(1)	5.703	77	166279	19.990
47) Propionitrile	(4)	5.774	54	220082	161.755

M = Compound was manually integrated.

* = Compound is an internal standard.

PTL03 0384

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29cv2.d Instrument ID: HP09915.i
Injection date and time: 30-SEP-2009 04:07 Analyst ID: SAS00403

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260W
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:15 kdp02245

Sample Name: LICV Lab Sample ID: LICV

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
50) Methacrylonitrile	(1)	6.009	67	576997	151.153
51) Bromochloromethane	(1)	6.031	128	61785	21.027
52) Tetrahydrofuran	(4)	6.096	71	122458	118.011
53) Chloroform	(1)	6.153	83	203165	20.580
57) 1,1,1-Trichloroethane	(1)	6.420	97	196611	20.753
60) Cyclohexane	(1)	6.504	56	211731	19.121
61) 1,1-Dichloropropene	(1)	6.649	75	163515	20.070
62) Carbon Tetrachloride	(1)	6.652	117	146418	20.116
63) Isobutyl Alcohol	(4)	6.829	41	183765	477.570
67) Benzene	(1)	6.925	78	496105	20.774
68) 1,2-Dichloroethane	(1)	6.941	62	184069	20.171
71) t-Amyl Methyl Ether	(1)	7.099	73	361985	19.596
72)*Fluorobenzene	(1)	7.308	96	1201238	50.000
74) n-Heptane	(1)	7.324	43	194468	19.126
75) n-Butanol	(4)	7.722	56	267947	880.398
76) Trichloroethene	(1)	7.796	95	122547	20.748
77) Methylcyclohexane	(1)	8.067	83	199416	21.663
79) 1,2-Dichloropropane	(1)	8.086	63	134953	20.250
80) Dibromomethane	(1)	8.234	93	81399	19.719
81) Methyl Methacrylate	(1)	8.263	69	118485	19.519
82) 1,4-Dioxane	(4)	8.272	88	35218M	436.882
84) Bromodichloromethane	(1)	8.452	83	147401	19.991
85) 2-Nitropropane	(1)	8.745	41	44251	17.663
86) 2-Chloroethyl Vinyl Ether	(1)	8.857	63	102925	20.223
87) cis-1,3-Dichloropropene	(1)	9.038	75	199756	20.654
89) 4-Methyl-2-Pentanone	(1)	9.240	43	1087284	98.607
93) Toluene	(2)	9.452	92	301829	21.077
94) trans-1,3-Dichloropropene	(2)	9.706	75	191565	19.958
95) Ethyl Methacrylate	(2)	9.825	69	200979	20.246
96) 1,1,2-Trichloroethane	(2)	9.906	97	113769	20.361
97) Tetrachloroethene	(2)	10.066	166	134400	21.597
98) 1,3-Dichloropropane	(2)	10.082	76	207353	20.039
100) 2-Hexanone	(2)	10.176	43	835638	96.443
102) Dibromochloromethane	(2)	10.314	129	121039	19.627

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/ls29cv2.d Instrument ID: HP09915.i
Injection date and time: 30-SEP-2009 04:07 Analyst ID: SAS00403

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260W
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:15 kdp02245

Sample Name: LICV Lab Sample ID: LICV

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
103) 1,2-Dibromoethane	(2)	10.423	107	124230	19.881
104) *Chlorobenzene-d5	(2)	10.873	117	876105	50.000
105) Chlorobenzene	(2)	10.899	112	346929	21.146
107) 1,1,1,2-Tetrachloroethane	(2)	10.973	131	111006	19.614
108) Ethylbenzene	(2)	11.002	91	590284	20.976
109) m+p-Xylene	(2)	11.108	106	463274	42.514
110) Xylene (Total)	(2)		106	687103	63.983
111) o-Xylene	(2)	11.452	106	223829	21.470
112) Styrene	(2)	11.462	104	364687	21.216
113) Bromoform	(2)	11.616	173	87942	18.979
115) Isopropylbenzene	(2)	11.761	105	557514	20.446
117) Cyclohexanone	(4)	11.832	55	127365	430.092
120) 1,1,2,2-Tetrachloroethane	(3)	11.989	83	189267	19.942
122) Bromobenzene	(3)	12.005	156	148973	20.640
123) 1,2,3-Trichloropropane	(3)	12.025	110	56846	19.812
124) trans-1,4-Dichloro-2-Butene	(3)	12.034	53	351064	102.830
125) n-Propylbenzene	(3)	12.089	120	165484	21.142
126) 2-Chlorotoluene	(3)	12.160	126	140964	20.868
127) 1,3,5-Trimethylbenzene	(3)	12.221	120	240363	20.862
128) 4-Chlorotoluene	(3)	12.240	126	148384	21.053
130) tert-Butylbenzene	(3)	12.471	134	108671	20.597
131) Pentachloroethane	(3)	12.491	167	86112	18.929
132) 1,2,4-Trimethylbenzene	(3)	12.507	105	511248	20.887
134) sec-Butylbenzene	(3)	12.635	134	127857	21.234
135) 1,3-Dichlorobenzene	(3)	12.722	146	282576	20.845
136) p-Isopropyltoluene	(3)	12.735	134	147492	21.423
137) *1,4-Dichlorobenzene-d4	(3)	12.767	152	501550	50.000
138) 1,4-Dichlorobenzene	(3)	12.787	146	298371	20.778
139) 1,2,3-Trimethylbenzene	(3)	12.819	120	219778	19.934
140) Benzyl Chloride	(3)	12.877	91	368655	19.501
141) 1,3-Diethylbenzene	(3)	12.951	119	312403	20.305
142) 1,4-Diethylbenzene	(3)	13.012	119	313953	20.435
143) n-Butylbenzene	(3)	13.031	92	268444	21.228
144) 1,2-Dichlorobenzene	(3)	13.057	146	272167	20.434

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09sep29c.b/1s29cv2.d Instrument ID: HP09915.i
Injection date and time: 30-SEP-2009 04:07 Analyst ID: SAS00403

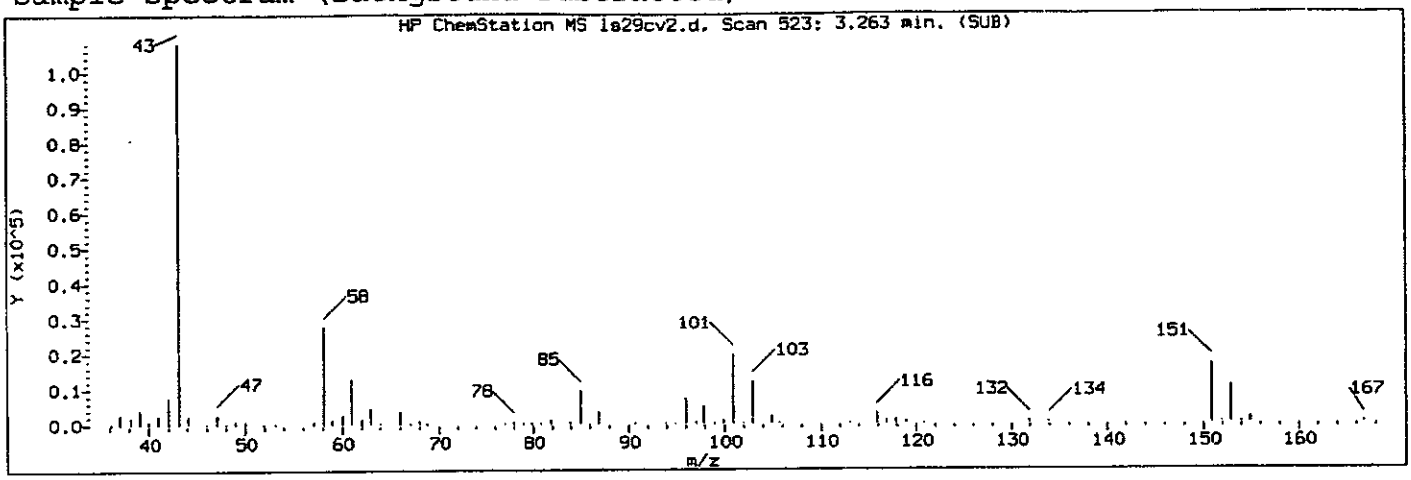
Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260W
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 30-Sep-2009 17:15 kdp02245

Sample Name: LICV Lab Sample ID: LICV

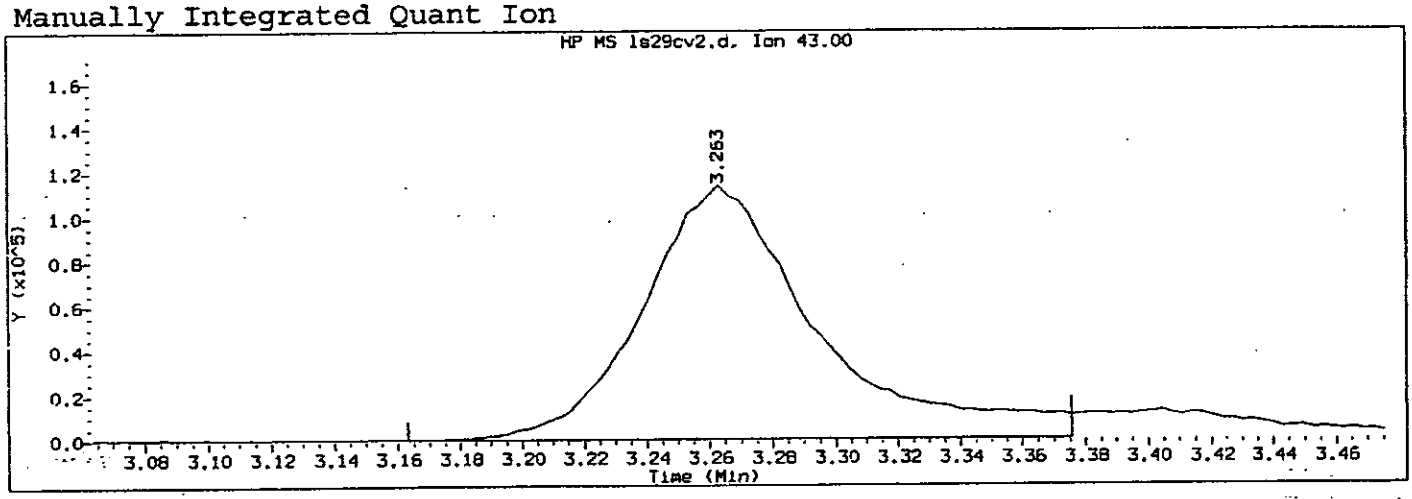
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
145) 1,2-Diethylbenzene	(3)	13.098	119	255338	20.071
146) 1,2-Dibromo-3-Chloropropane	(3)	13.594	75	39418	18.231
147) 1,2,4-Trichlorobenzene	(3)	14.153	180	214848	20.509
148) Hexachlorobutadiene	(3)	14.256	225	96712	19.376
149) Naphthalene	(3)	14.323	128	645650	19.582
150) 1,2,3-Trichlorobenzene	(3)	14.475	180	206920	20.021
152) 2-Methylnaphthalene	(3)	15.057	142	326056	16.122
54)$Dibromofluoromethane	(1)	6.372	113	291433	50.348
64)$1,2-Dichloroethane-d4	(1)	6.835	102	70984	50.730
91)$Toluene-d8	(2)	9.378	98	1195624	52.241
119)$4-Bromofluorobenzene	(2)	11.883	95	433192	51.493

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29cv2.d Instrument ID: HP09915.i
Injection date and time: 30-SEP-2009 04:07 Analyst ID: SAS00403

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260W
Calibration date and time: 30-SEP-2009 17:15
Date, time and analyst ID of latest file update: 30-Sep-2009 17:15 kdp02245

Sample Name: LICV Lab Sample ID: LICV

Compound Number : 21
Compound Name : Acetone
Scan Number : 523
Retention Time (minutes): 3.263
Quant Ion : 43
Area (flag) : 437936 M
Concentration (ug/L) : 165.3901
Integration start scan : 491 Integration stop scan: 557
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

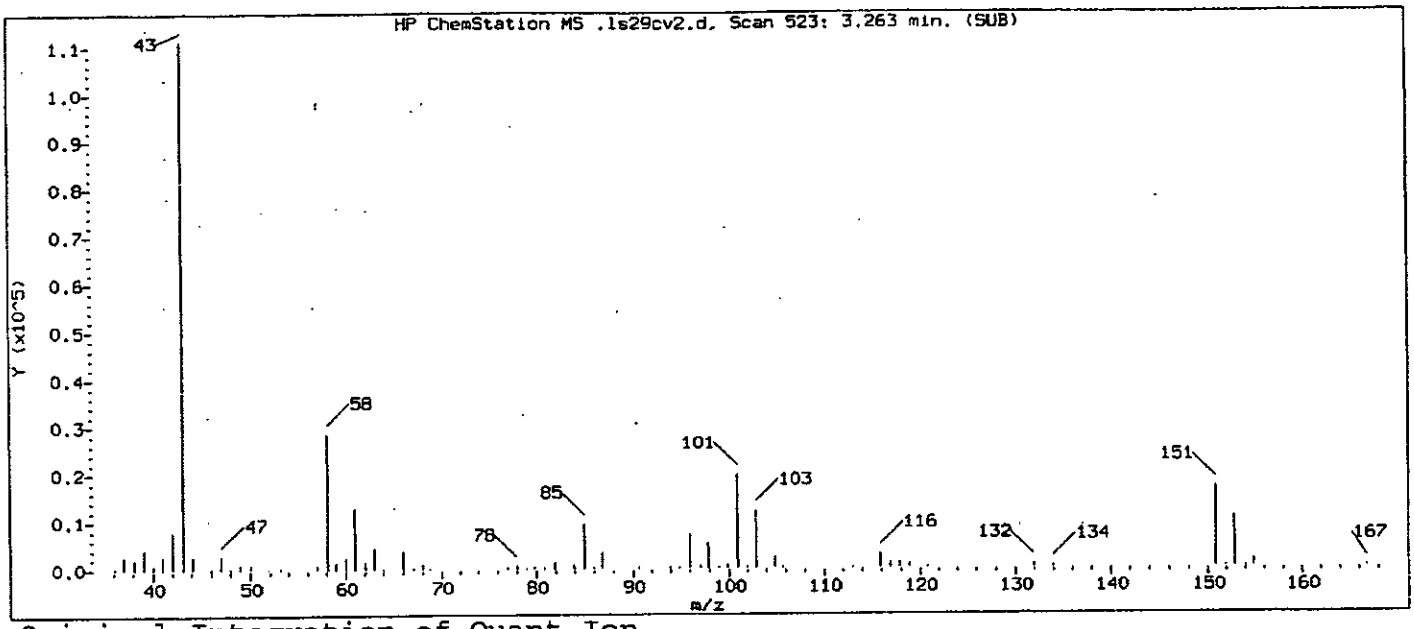
Analyst responsible for change: KDP 2045 9/30/09

GC/MS audit/management approval 9-30-09

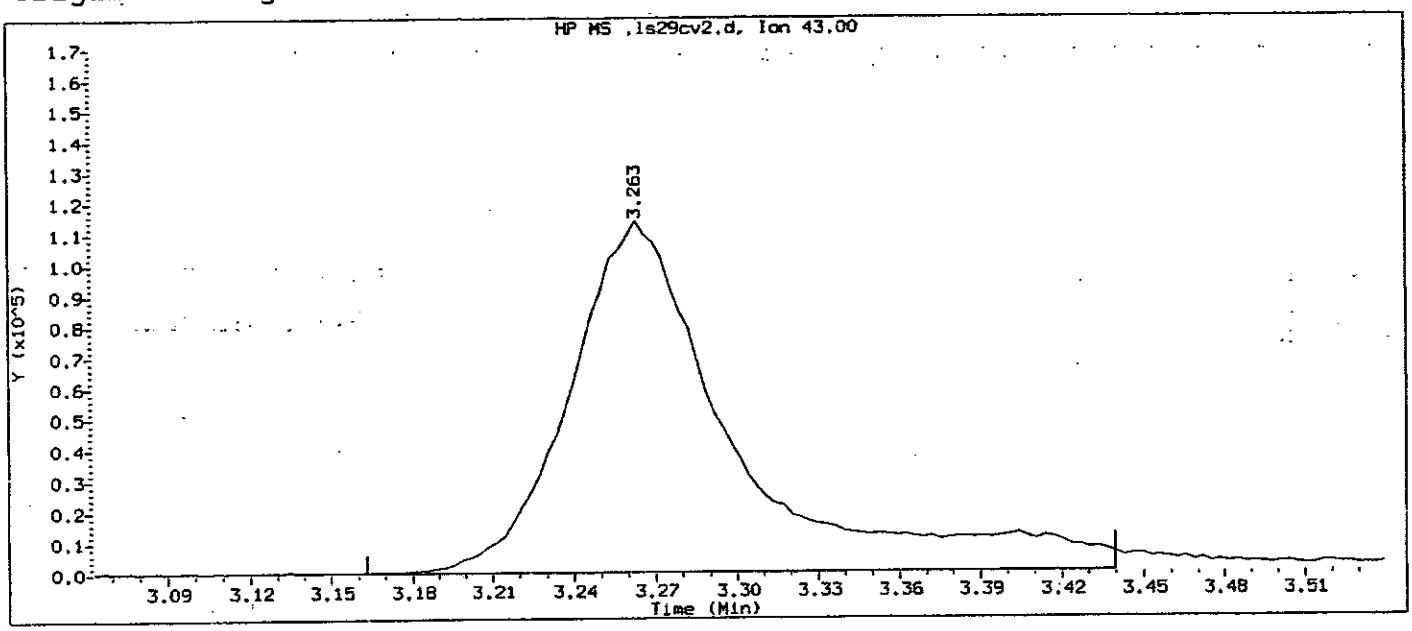
PTL83 8388

Manual Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29cv2.d, generated on 09/30/2009 at 17:15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29cv2.d Instrument ID: HP09915.i
Injection date and time: 30-SEP-2009 04:07 Analyst ID: SAS00403

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260W
Calibration date and time: 30-SEP-2009 01:07
Date, time and analyst ID of latest file update: 30-Sep-2009 04:26 Automation

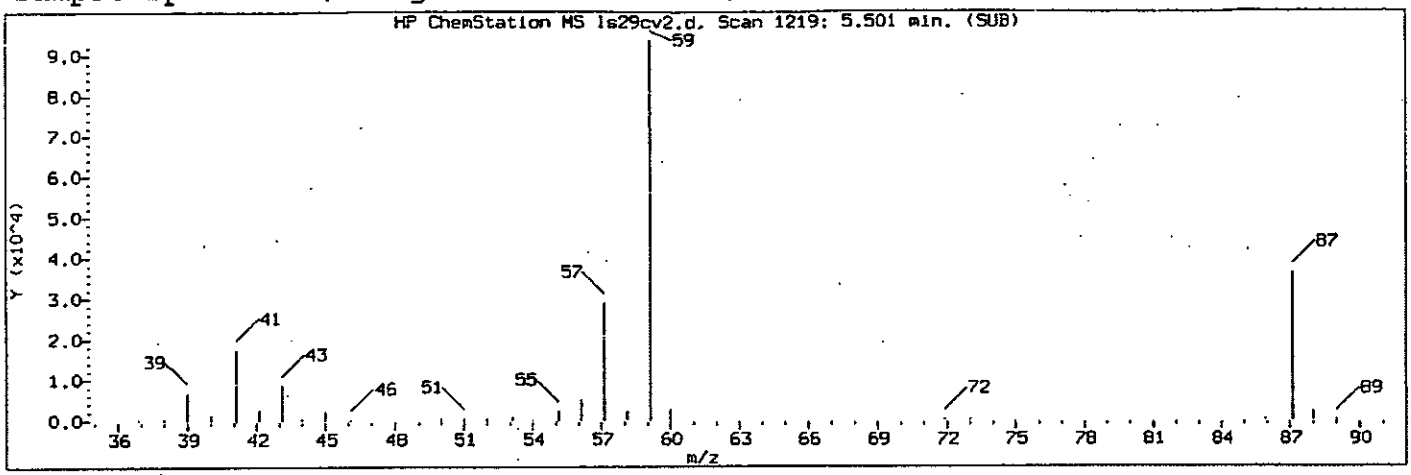
Sample Name: LICV Lab Sample ID: LICV

Compound Number	: 21
Compound Name	: Acetone
Scan Number	: 523
Retention Time (minutes)	: 3.263
Quant Ion	: 43
Area	: 476330
Concentration (ug/L)	: 179.8901
Integration start scan	: 491 Integration stop scan: 577
Y at integration start	: 0 Y at integration end: 0

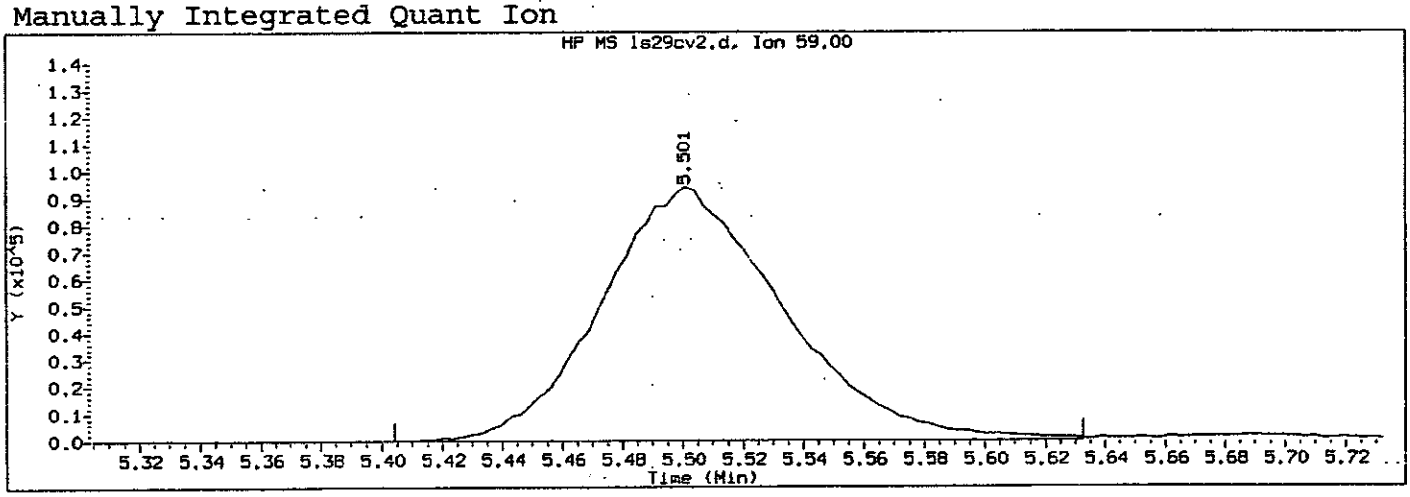
PTL03 0389

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29cv2.d, generated on 09/30/2009 at 17:15

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29cv2.d Instrument ID: HP09915.i
Injection date and time: 30-SEP-2009 04:07 Analyst ID: SAS00403

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260W
Calibration date and time: 30-SEP-2009 17:15
Date, time and analyst ID of latest file update: 30-Sep-2009 17:15 kdp02245

Sample Name: LICV Lab Sample ID: LICV

Compound Number : 43
Compound Name : Ethyl t-Butyl Ether
Scan Number : 1219
Retention Time (minutes): 5.501
Quant Ion : 59
Area (flag) : 394873 M
Concentration (ug/L) : 19.8850
Integration start scan : 1188 Integration stop scan: 1259
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

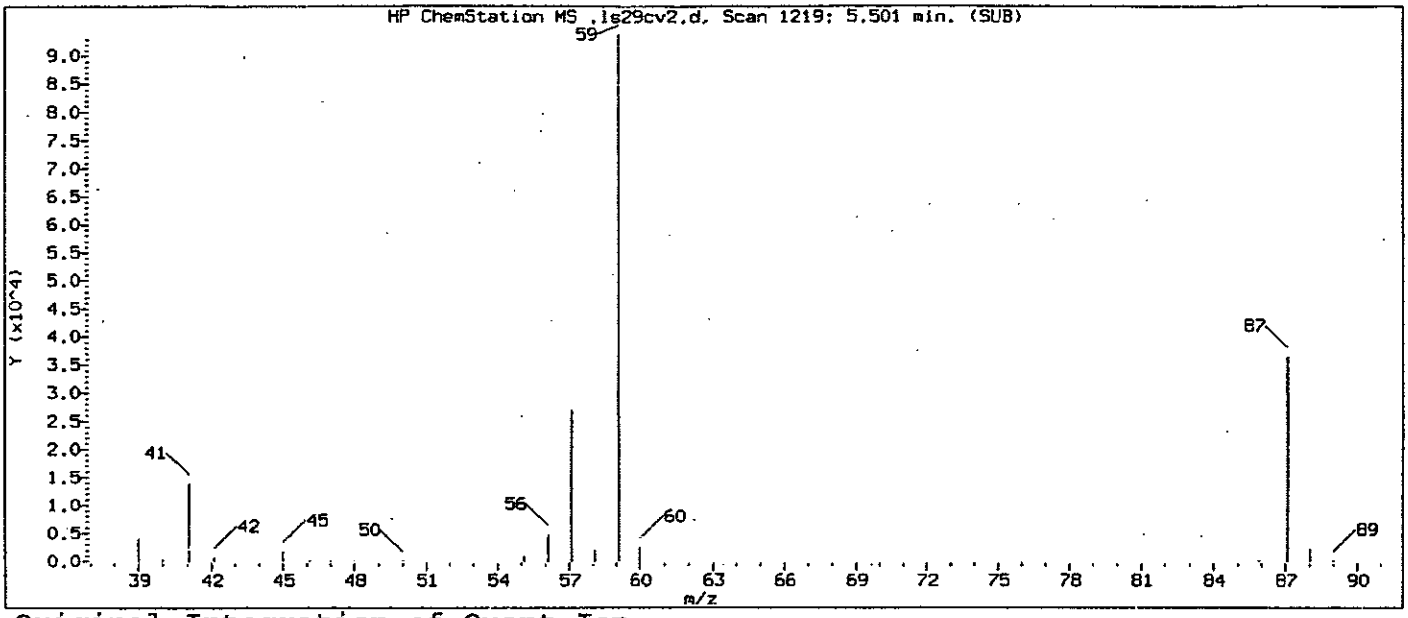
Analyst responsible for change: KDP20UT 9/30/09

GC/MS audit/management approval: 9-30-09

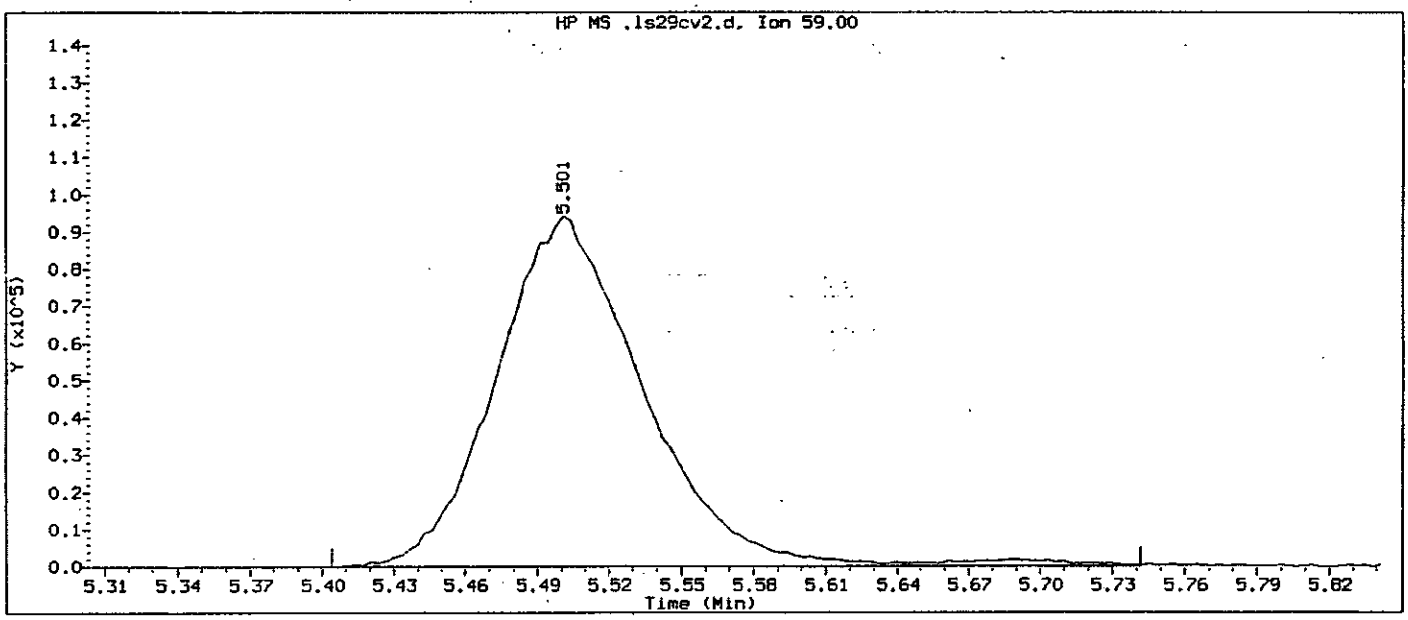
PTL03 0310

Manual Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29cv2.d, generated on 09/30/2009 at 17:15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29cv2.d Instrument ID: HP09915.i
Injection date and time: 30-SEP-2009 04:07 Analyst ID: SAS00403

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260W
Calibration date and time: 30-SEP-2009 01:07
Date, time and analyst ID of latest file update: 30-Sep-2009 04:26 Automation

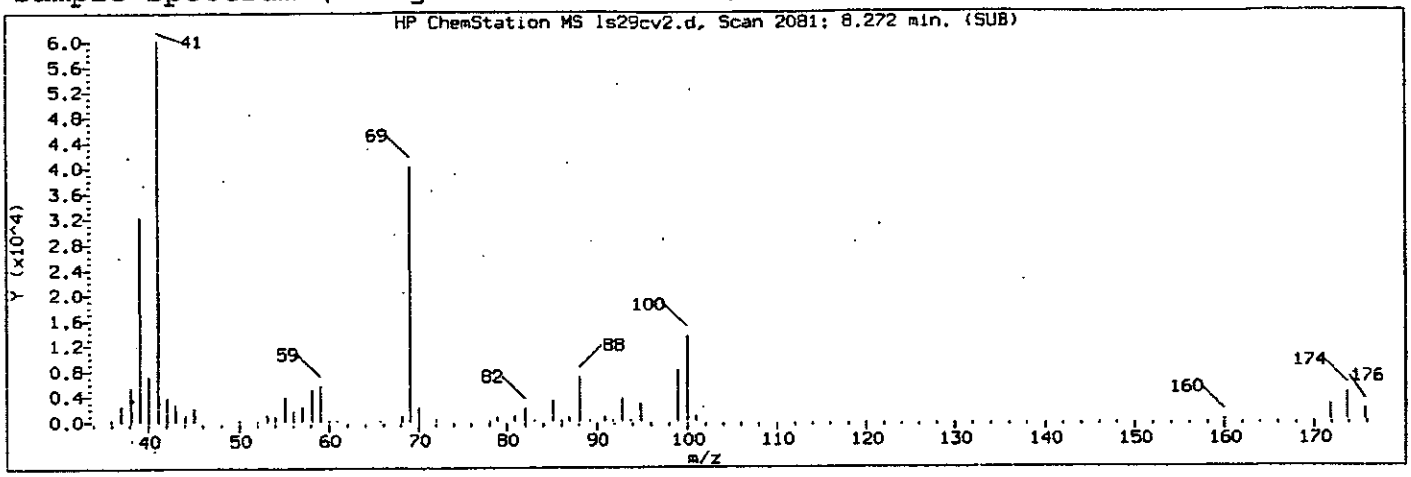
Sample Name: LICV Lab Sample ID: LICV

Compound Number	: 43
Compound Name	: Ethyl t-Butyl Ether
Scan Number	: 1219
Retention Time (minutes)	: 5.501
Quant Ion	: 59
Area	: 402157
Concentration (ug/L)	: 20.2518
Integration start scan	: 1188 Integration stop scan: 1293
Y at integration start	: 0 Y at integration end: 0

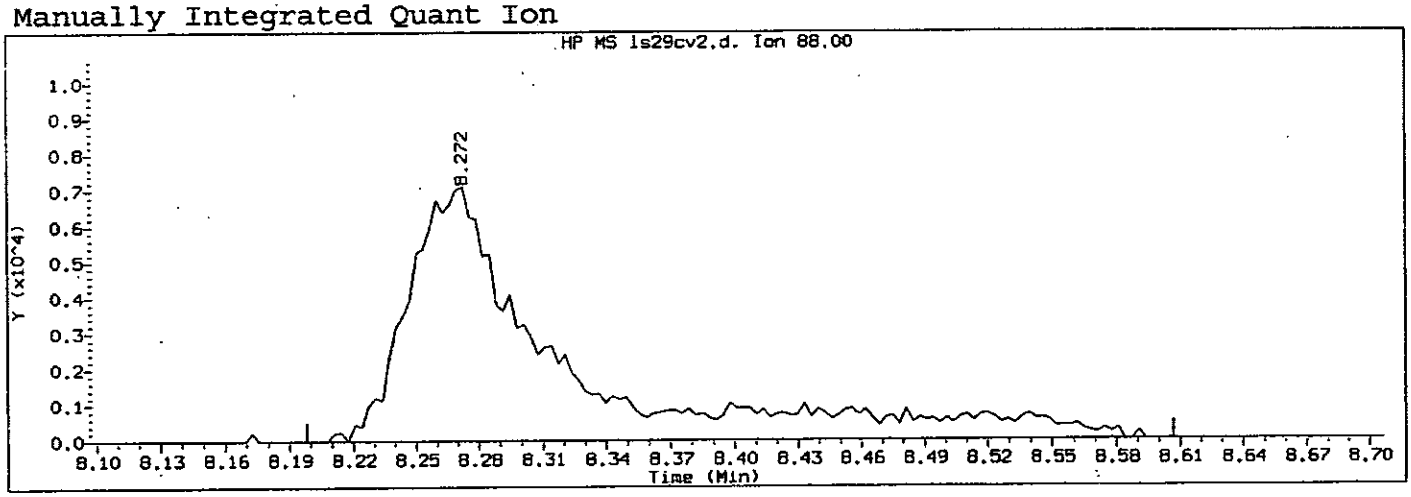
PTL03 0011

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29cv2.d, generated on 09/30/2009 at 17:15

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29cv2.d Instrument ID: HP09915.i
Injection date and time: 30-SEP-2009 04:07 Analyst ID: SAS00403

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260W
Calibration date and time: 30-SEP-2009 17:15
Date, time and analyst ID of latest file update: 30-Sep-2009 17:15 kdp02245

Sample Name: LICV Lab Sample ID: LICV

Compound Number : 82
Compound Name : 1,4-Dioxane
Scan Number : 2081
Retention Time (minutes): 8.272
Quant Ion : 88
Area (flag) : 35218 M
Concentration (ug/L) : 436.8820
Integration start scan : 2057 Integration stop scan: 2184
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

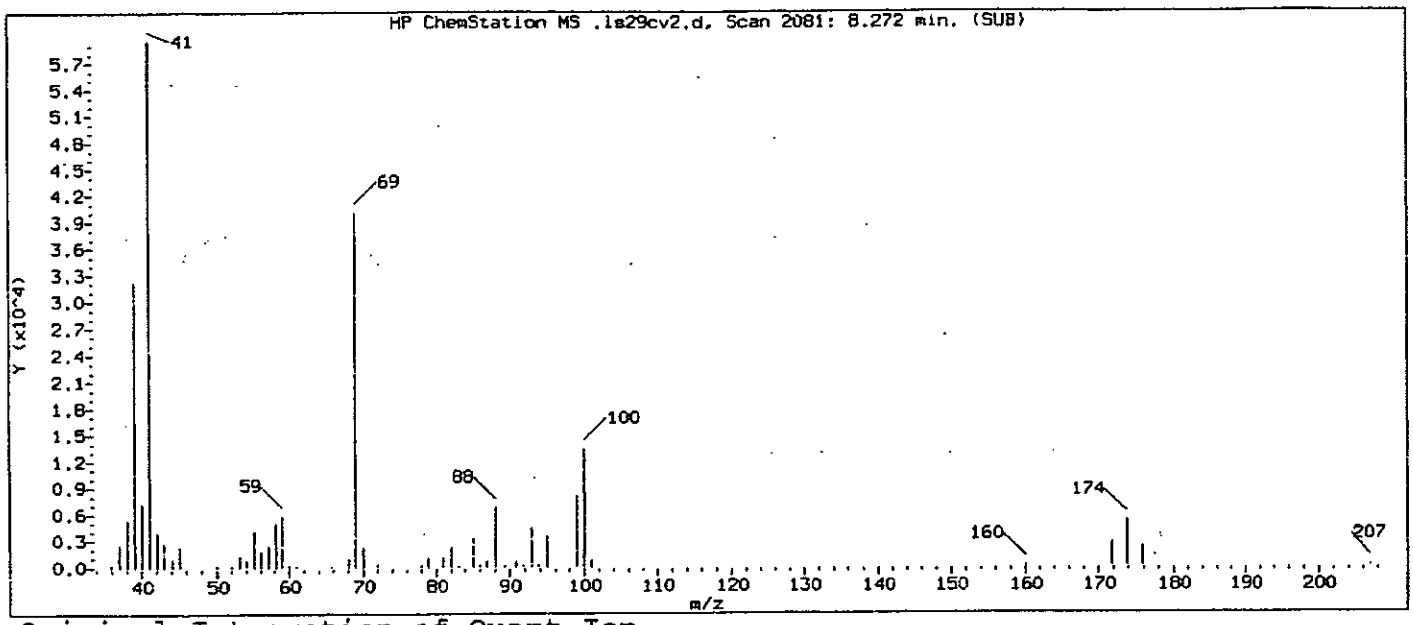
Analyst responsible for change: KDP 9/30/09

GC/MS audit/management approval: 9-30-09

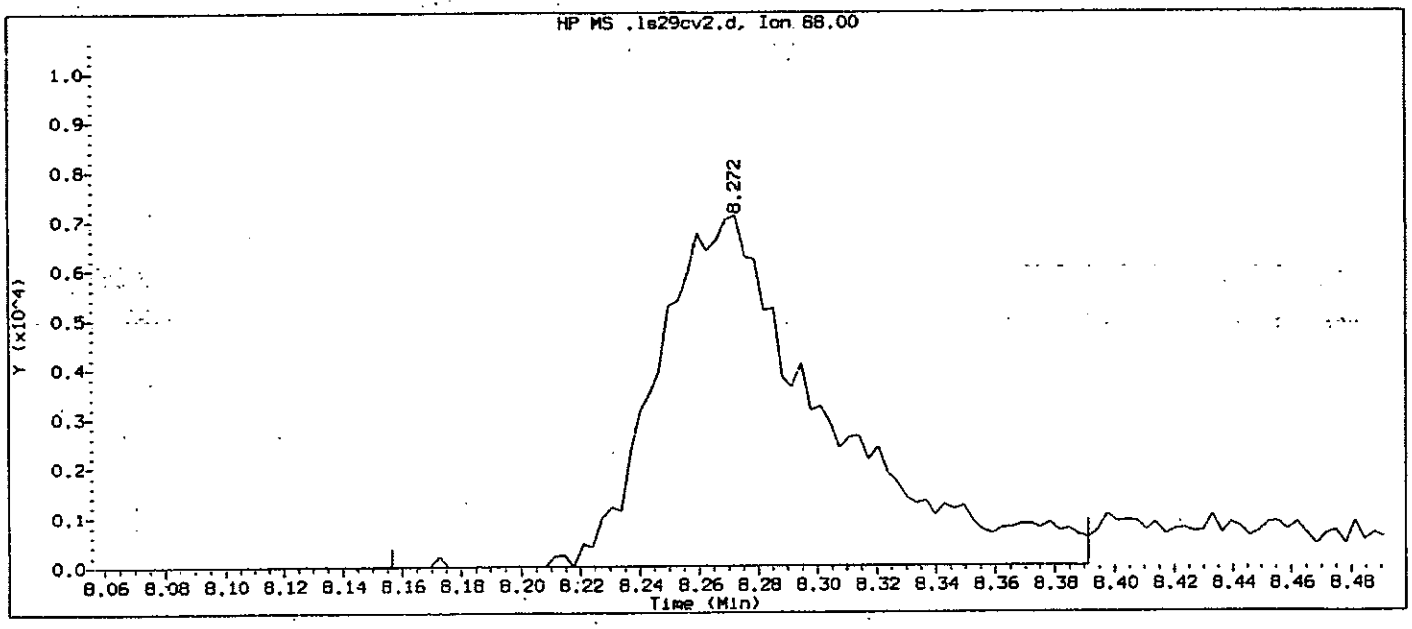
PTL03 0312

Manual Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29cv2.d, generated on 09/30/2009 at 17:15

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09sep29c.b/ls29cv2.d Instrument ID: HP09915.i
Injection date and time: 30-SEP-2009 04:07 Analyst ID: SAS00403

Method used: /chem/HP09915.i/09sep29c.b/L8260W.m Sublist used: 8260W
Calibration date and time: 30-SEP-2009 01:07
Date, time and analyst ID of latest file update: 30-Sep-2009 04:26 Automation

Sample Name: LICV Lab Sample ID: LICV

Compound Number	: 82
Compound Name	: 1,4-Dioxane
Scan Number	: 2081
Retention Time (minutes)	: 8.272
Quant Ion	: 88
Area	: 28079
Concentration (ug/L)	: 348.3209
Integration start scan	: 2044 Integration stop scan: 2117
Y at integration start	: 0 Y at integration end: 0

PTL83 8313

Original Integration Report for data file /chem/HP09915.i/09sep29c.b/ls29cv2.d, generated on 09/30/2009 at 17:15

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09915 Calibration Date(s): 10/08/09 10/08/09

Heated Purge: (Y/N) Y Calibration Times: 17:10 18:59

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

LAB FILE ID: RRF 4 = lc08i06.d RRF 10= lc08i05.d RRF 20= lc08i04.d
RRF 50= lc08i03.d RRF100= lc08i02.d RRF300= lc08i01.d RRF =

COMPOUND	RRF 4	RRF 10	RRF 20	RRF 50	RRF100	RRF300	RRF	$\overline{RRF}$	% RSD	CAL. METHOD	
Dichlorodifluoromethane	0.4222	0.4074	0.4243	0.4232	0.3954	0.4242		0.4161	3	AVG	
Chloromethane	#0.3569	0.3573	0.3679	0.3686	0.3461	0.3591		0.3593	2	AVG	#
Vinyl Chloride	*0.3295	0.3232	0.3332	0.3383	0.3113	0.3298		0.3275	3	AVG	*
Bromomethane	0.1886	0.1866	0.1821	0.1931	0.1516	0.1162		0.1697	18	2NDDEG	
Chloroethane	0.1756	0.1722	0.1742	0.1732	0.1398	0.1049		0.1567	18	2NDDEG	
Dichlorofluoromethane	0.4831	0.4345	0.4573	0.4618	0.4351	0.3751		0.4412	8	AVG	
Trichlorofluoromethane	0.4529	0.4314	0.4466	0.4516	0.4296	0.4149		0.4378	3	AVG	
Ethyl Ether	0.1682	0.1548	0.1588	0.1672	0.1606	0.1428		0.1587	6	AVG	
Freon 123a	0.2844	0.2496	0.2652	0.2736	0.2578	0.2352		0.2609	7	AVG	
Acrolein	1.2987	1.4308	1.2389	1.4006	1.3326	1.0753		1.2961	10	AVG	
1,1-Dichloroethene	*0.2502	0.2438	0.1931	0.2171	0.2077	0.1890		0.2168	12	AVG	*
Freon 113	0.2844	0.2722	0.2243	0.2632	0.2513	0.2278		0.2539	10	AVG	
Acetone	0.1252	0.1261	0.1005	0.1198	0.1155	0.1023		0.1149	10	AVG	
2-Propanol	0.7936	0.8201	0.7989	0.7944	0.8212	0.8481		0.8127	3	AVG	
Methyl Iodide	0.4689	0.4670	0.4376	0.4762	0.4810	0.4720		0.4671	3	AVG	
Carbon Disulfide	0.8894	0.8989	0.8365	0.9321	0.9398	0.9382		0.9058	4	AVG	
Allyl Chloride	0.4583	0.4383	0.4538	0.4917	0.4831	0.4891		0.4691	5	AVG	
Methyl Acetate	0.3273	0.2819	0.3070	0.3273	0.3202	0.3207		0.3141	6	AVG	
Methylene Chloride	0.3544	0.3038	0.2723	0.2822	0.2823	0.2769		0.2953	10	AVG	
t-Butyl Alcohol	1.1539	1.1618	1.1416	1.1969	1.2173	1.1680		1.1733	2	AVG	
Acrylonitrile	0.1524	0.1575	0.1365	0.1535	0.1546	0.1500		0.1507	5	AVG	
trans-1,2-Dichloroethene	0.2735	0.2718	0.2504	0.2703	0.2717	0.2678		0.2676	3	AVG	
Methyl Tertiary Butyl Ether	0.8648	0.8485	0.8217	0.8852	0.9062	0.8924		0.8698	4	AVG	
n-Hexane	0.4223	0.4038	0.3682	0.4290	0.4363	0.4470		0.4178	7	AVG	
1,2-Dichloroethene (total)	0.2815	0.2775	0.2547	0.2773	0.2814	0.2778		0.2750	4	AVG	
1,1-Dichloroethane	#0.5080	0.4989	0.4602	0.4953	0.5001	0.4980		0.4934	3	AVG	#
di-Isopropyl Ether	0.9668	0.9817	0.9326	0.9982	1.0308	1.0188		0.9882	4	AVG	
2-Chloro-1,3-Butadiene	0.4242	0.4251	0.4019	0.4532	0.4678	0.4772		0.4416	7	AVG	
Ethyl t-Butyl Ether	0.8221	0.8245	0.8012	0.8683	0.8977	0.8799		0.8489	5	AVG	
cis-1,2-Dichloroethene	0.2896	0.2832	0.2589	0.2842	0.2911	0.2878		0.2825	4	AVG	
2-Butanone	0.2018	0.2087	0.1866	0.2150	0.2235	0.2169		0.2087	6	AVG	
2,2-Dichloropropane	0.3604	0.3621	0.3440	0.3853	0.4032	0.4021		0.3762	6	AVG	
Propionitrile	1.4979	1.4765	1.4308	1.5421	1.5742	1.5081		1.5050	3	AVG	
Methacrylonitrile	0.1570	0.1527	0.1499	0.1598	0.1644	0.1605		0.1574	3	AVG	
Bromochloromethane	0.1372	0.1283	0.1338	0.1436	0.1416	0.1393		0.1373	4	AVG	
Tetrahydrofuran	1.0564	1.2011	1.0017	1.1691	1.2011	1.1125		1.1236	7	AVG	
Chloroform	*0.4462	0.4442	0.4057	0.4491	0.4637	0.4593		0.4447	5	AVG	*
1,1,1-Trichloroethane	0.4702	0.4216	0.3996	0.4225	0.4427	0.4479		0.4341	6	AVG	
Cyclohexane	0.5023	0.4870	0.4454	0.5299	0.5554	0.5572		0.5129	8	AVG	
Cyclohexane(mz 84)	0.3933	0.3976	0.3554	0.4235	0.4414	0.4427		0.4090	8	AVG	
Cyclohexane(mz 69)	0.1450	0.1422	0.1295	0.1527	0.1600	0.1614		0.1485	8	AVG	
1,1-Dichloropropene	0.3630	0.3610	0.3374	0.3812	0.3988	0.3992		0.3734	6	AVG	
Carbon Tetrachloride	0.3162	0.3149	0.3002	0.3536	0.3727	0.3832		0.3401	10	AVG	
Isobutyl Alcohol	0.4120	0.4103	0.4070	0.4480	0.4713	0.4523		0.4335	6	AVG	
Benzene	1.0958	1.0853	1.0012	1.1240	1.1588	1.1202		1.0976	5	AVG	
1,2-Dichloroethane	0.3704	0.3713	0.3578	0.3893	0.4065	0.4095		0.3841	5	AVG	
1,2-Dichloroethane(mz 98)	0.0320	0.0318	0.0305	0.0326	0.0336	0.0335		0.0323	4	AVG	
t-Amyl Methyl Ether	0.7305	0.7540	0.7329	0.8195	0.8559	0.8425		0.7892	7	AVG	
n-Heptane	0.4430	0.4049	0.3611	0.4423	0.4512	0.4639		0.4277	9	AVG	
n-Butanol	0.3092	0.3140	0.3209	0.3481	0.3805	0.3626		0.3392	9	AVG	
Trichloroethene	0.2647	0.2669	0.2453	0.2753	0.2830	0.2762		0.2686	5	AVG	
Methylcyclohexane	0.4148	0.3899	0.4239	0.4735	0.4761	0.4829		0.4435	9	AVG	

Minimum RRF for SPCC(#) = 0.10
(0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %RSD for CCC(*) = 30%

PTL03 8314

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09915 Calibration Date(s): 10/08/09 10/08/09

Heated Purge: (Y/N) Y Calibration Times: 17:10 18:59

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

LAB FILE ID: RRF 4 = lc08i06.d RRF 10= lc08i05.d RRF 20= lc08i04.d
RRF 50= lc08i03.d RRF100= lc08i02.d RRF300= lc08i01.d RRF =

COMPOUND	RRF 4	RRF 10	RRF 20	RRF 50	RRF100	RRF300	RRF	$\overline{RRF}$	% RSD	CAL. METHOD	
Methylcyclohexane(mz98)	0.1864	0.1739	0.1869	0.2117	0.2147	0.2166		0.1984	9	AVG	
1,2-Dichloropropane	*0.2913	0.2914	0.2690	0.3051	0.3153	0.3090		0.2968	6	AVG	*
Dibromomethane	0.1694	0.1678	0.1656	0.1814	0.1894	0.1897		0.1772	6	AVG	
Methyl Methacrylate	0.2252	0.2293	0.2341	0.2672	0.2775	0.2801		0.2522	10	AVG	
1,4-Dioxane	0.1020	0.0978	0.0928	0.0962	0.1182	0.1134		0.1034	10	AVG	
Bromodichloromethane	0.2942	0.3002	0.2956	0.3356	0.3540	0.3661		0.3243	10	AVG	
2-Nitropropane	0.0776	0.0912	0.0836	0.1064	0.1124	0.1120		0.0972	16	1STDEG	
2-Chloroethyl Vinyl Ether	0.1886	0.2112	0.2023	0.2274	0.2369	0.2354		0.2170	9	AVG	
cis-1,3-Dichloropropene	0.3869	0.4062	0.3951	0.4588	0.4747	0.4755		0.4329	10	AVG	
4-Methyl-2-Pentanone	0.3704	0.4291	0.3870	0.4564	0.4714	0.4476		0.4270	9	AVG	
Toluene	*0.8875	0.8970	0.8291	0.9081	0.9283	0.8878		0.8896	4	AVG	*
trans-1,3-Dichloropropene	0.4949	0.5280	0.5145	0.5945	0.6219	0.6183		0.5620	10	AVG	
Ethyl Methacrylate	0.4923	0.5366	0.5301	0.6052	0.6278	0.6083		0.5667	10	AVG	
1,1,2-Trichloroethane	0.3314	0.3254	0.3094	0.3389	0.3466	0.3353		0.3311	4	AVG	
Tetrachloroethene	0.4009	0.3935	0.3564	0.4049	0.4143	0.3907		0.3934	5	AVG	
1,3-Dichloropropane	0.5913	0.5957	0.5705	0.6329	0.6532	0.6202		0.6106	5	AVG	
2-Hexanone	0.3813	0.4349	0.3920	0.4690	0.4837	0.4534		0.4357	10	AVG	
Dibromochloromethane	0.3216	0.3370	0.3359	0.3919	0.4160	0.4213		0.3706	12	AVG	
1,2-Dibromoethane	0.3513	0.3553	0.3466	0.3846	0.3991	0.3941		0.3718	6	AVG	
Chlorobenzene	#1.0172	0.9925	0.9302	1.0400	1.0641	1.0198		1.0106	5	AVG	#
1,1,1,2-Tetrachloroethane	0.3181	0.3171	0.3161	0.3597	0.3779	0.3764		0.3442	9	AVG	
Ethylbenzene	*1.6751	1.6402	1.5726	1.7894	1.8675	1.7792		1.7207	6	AVG	*
m+p-Xylene	0.6643	0.6431	0.6181	0.6981	0.7249	0.6914		0.6733	6	AVG	
Xylene (Total)	0.6471	0.6346	0.6095	0.6830	0.7042	0.6358		0.6524	5	AVG	
o-Xylene	0.6299	0.6261	0.6008	0.6679	0.6835	0.5801		0.6314	6	AVG	
Styrene	0.9739	1.0086	0.9937	1.1122	1.1470	0.9759		1.0352	7	AVG	
Bromoform	#0.2293	0.2356	0.2475	0.2800	0.3122	0.3194		0.2706	14	AVG	#
Isopropylbenzene	1.6187	1.6059	1.5102	1.6554	1.7956	1.6890		1.6458	6	AVG	
Cyclohexanone	0.3660	0.3416	0.3508	0.3471	0.4224	0.4160		0.3740	10	AVG	
1,1,2,2-Tetrachloroethane	#0.9376	0.9230	0.8924	0.9624	0.9926	0.9247		0.9388	4	AVG	#
Bromobenzene	0.7666	0.7828	0.7092	0.7982	0.8163	0.7315		0.7674	5	AVG	
1,2,3-Trichloropropane	0.2741	0.2718	0.2627	0.2895	0.2948	0.2567		0.2749	5	AVG	
trans-1,4-Dichloro-2-Butene	0.2929	0.2973	0.2975	0.3276	0.3459	0.3217		0.3138	7	AVG	
n-Propylbenzene	0.8431	0.8580	0.7640	0.8797	0.9004	0.8470		0.8487	6	AVG	
2-Chlorotoluene	0.7317	0.7222	0.6686	0.7472	0.7670	0.7198		0.7261	5	AVG	
1,3,5-Trimethylbenzene	1.2104	1.2440	1.1171	1.2781	1.3232	1.1873		1.2267	6	AVG	
4-Chlorotoluene	0.7656	0.7682	0.6972	0.7821	0.7990	0.7214		0.7556	5	AVG	
tert-Butylbenzene	0.5506	0.5526	0.5084	0.5836	0.5957	0.5338		0.5541	6	AVG	
Pentachloroethane	0.4428	0.4222	0.4541	0.5139	0.5173	0.4751		0.4709	8	AVG	
1,2,4-Trimethylbenzene	2.4923	2.5411	2.3324	2.6657	2.7843	2.4776		2.5489	6	AVG	
sec-Butylbenzene	0.6419	0.6391	0.5641	0.6658	0.6844	0.6454		0.6401	6	AVG	
1,3-Dichlorobenzene	1.4351	1.4539	1.3259	1.4714	1.5124	1.3356		1.4224	5	AVG	
p-Isopropyltoluene	0.7064	0.7252	0.6579	0.7564	0.7854	0.6871		0.7197	6	AVG	
1,4-Dichlorobenzene	1.5063	1.5056	1.3980	1.5585	1.5807	1.4875		1.5061	4	AVG	
1,2,3-Trimethylbenzene	1.0937	1.0464	1.1158	1.2150	1.2193	1.1360		1.1377	6	AVG	
Benzyl Chloride	1.5314	1.6437	1.6972	1.9822	2.1436	2.1591		1.8595	15	AVG	
1,3-Diethylbenzene	1.5095	1.4415	1.5405	1.6784	1.6948	1.5811		1.5743	6	AVG	
1,4-Diethylbenzene	1.5092	1.4452	1.5145	1.6628	1.6805	1.5185		1.5551	6	AVG	
n-Butylbenzene	1.3107	1.3123	1.1816	1.3573	1.4125	1.2492		1.3039	6	AVG	
1,2-Dichlorobenzene	1.4176	1.4039	1.2917	1.4136	1.4589	1.3748		1.3934	4	AVG	
1,2-Diethylbenzene	1.2443	1.2040	1.2573	1.3701	1.3854	1.3050		1.2944	6	AVG	
1,2-Dibromo-3-Chloropropane	0.1756	0.1846	0.1858	0.2086	0.2287	0.2332		0.2028	12	AVG	

Minimum RRF for SPCC(#) = 0.10
(0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %RSD for CCC(*) = 30%

PTL03 8315

FORM VI VOA

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09915 Calibration Date(s): 10/08/09 10/08/09

Heated Purge: (Y/N) Y Calibration Times: 17:10 18:59

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

LAB FILE ID: RRF 4 = lc08i06.d RRF 10= lc08i05.d RRF 20= lc08i04.d
RRF 50= lc08i03.d RRF100= lc08i02.d RRF300= lc08i01.d RRF =

COMPOUND	RRF 4	RRF 10	RRF 20	RRF 50	RRF100	RRF300	RRF	$\overline{RRF}$	% RSD	CAL. METHOD
1,2,4-Trichlorobenzene	1.0347	1.0528	0.9911	1.0951	1.1505	1.0675		1.0653	5	AVG
Hexachlorobutadiene	0.6368	0.5744	0.5318	0.5829	0.5827	0.5458		0.5757	6	AVG
Naphthalene	2.9957	3.0919	3.0147	3.3385	3.5473	3.3055		3.2156	7	AVG
1,2,3-Trichlorobenzene	1.0560	1.0513	0.9961	1.0811	1.1415	1.0330		1.0598	5	AVG
2-Methylnaphthalene	1.5645	1.6181	1.8372	1.9292	2.0728	1.8995		1.8202	11	AVG
Dibromofluoromethane	0.2509	0.2389	0.2301	0.2704	0.2803	0.2649		0.2559	8	AVG
Dibromofluoromethane(mz111)	0.2618	0.2421	0.2352	0.2768	0.2866	0.2704		0.2621	8	AVG
1,2-Dichloroethane-d4	0.0642	0.0583	0.0556	0.0641	0.0670	0.0618		0.0618	7	AVG
1,2-Dichloroethane-d4(mz65)	0.3144	0.2962	0.2870	0.3307	0.3436	0.3278		0.3166	7	AVG
1,2-Dichloroethane-d4(mz104)	0.0410	0.0356	0.0353	0.0410	0.0430	0.0397		0.0393	8	AVG
Toluene-d8	1.4104	1.3413	1.2676	1.4775	1.5047	1.3610		1.3937	6	AVG
Toluene-d8(mz100)	0.8926	0.8533	0.8135	0.9455	0.9712	0.8790		0.8925	7	AVG
4-Bromofluorobenzene	0.5057	0.4611	0.4583	0.5025	0.5404	0.4985		0.4944	6	AVG
4-Bromofluorobenzene(mz174)	0.4505	0.4047	0.4048	0.4418	0.4696	0.4212		0.4321	6	AVG

Average %RSD 7

Minimum RRF for SPCC(#) = 0.10
(0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %RSD for CCC(*) = 30%

PTL03 6316

FORM VI VOA

Internal Standard Area and Retention Time Summary

Initial Calibration Standards:

/chem/HP09915.i/09oct08i.b/lc08i01.d VSTD300
/chem/HP09915.i/09oct08i.b/lc08i02.d VSTD100
/chem/HP09915.i/09oct08i.b/lc08i03.d VSTD050
/chem/HP09915.i/09oct08i.b/lc08i04.d VSTD020
/chem/HP09915.i/09oct08i.b/lc08i05.d VSTD010
/chem/HP09915.i/09oct08i.b/lc08i06.d VSTD004

Area Summary

File ID:

Internal Standard Name	lc08i01.d	lc08i02.d	lc08i03.d	lc08i04.d	lc08i05.d	lc08i06.d	Avg. Area	%RSD	In Spec
t-Butyl Alcohol-d10	290275	289717	280488	275746	266324	267597	278358	4	Yes
Fluorobenzene	1342287	1390761	1370788	1315638	1301819	1285240	1334422	3	Yes
Chlorobenzene-d5	1011320	1023718	1007166	967609	946082	934449	981724	4	Yes
1,4-Dichlorobenzene-d4	578518	583953	549741	550934	517909	528936	551665	5	Yes

%RSD of internal standard area is flagged out of spec if greater than 30.

RT Summary

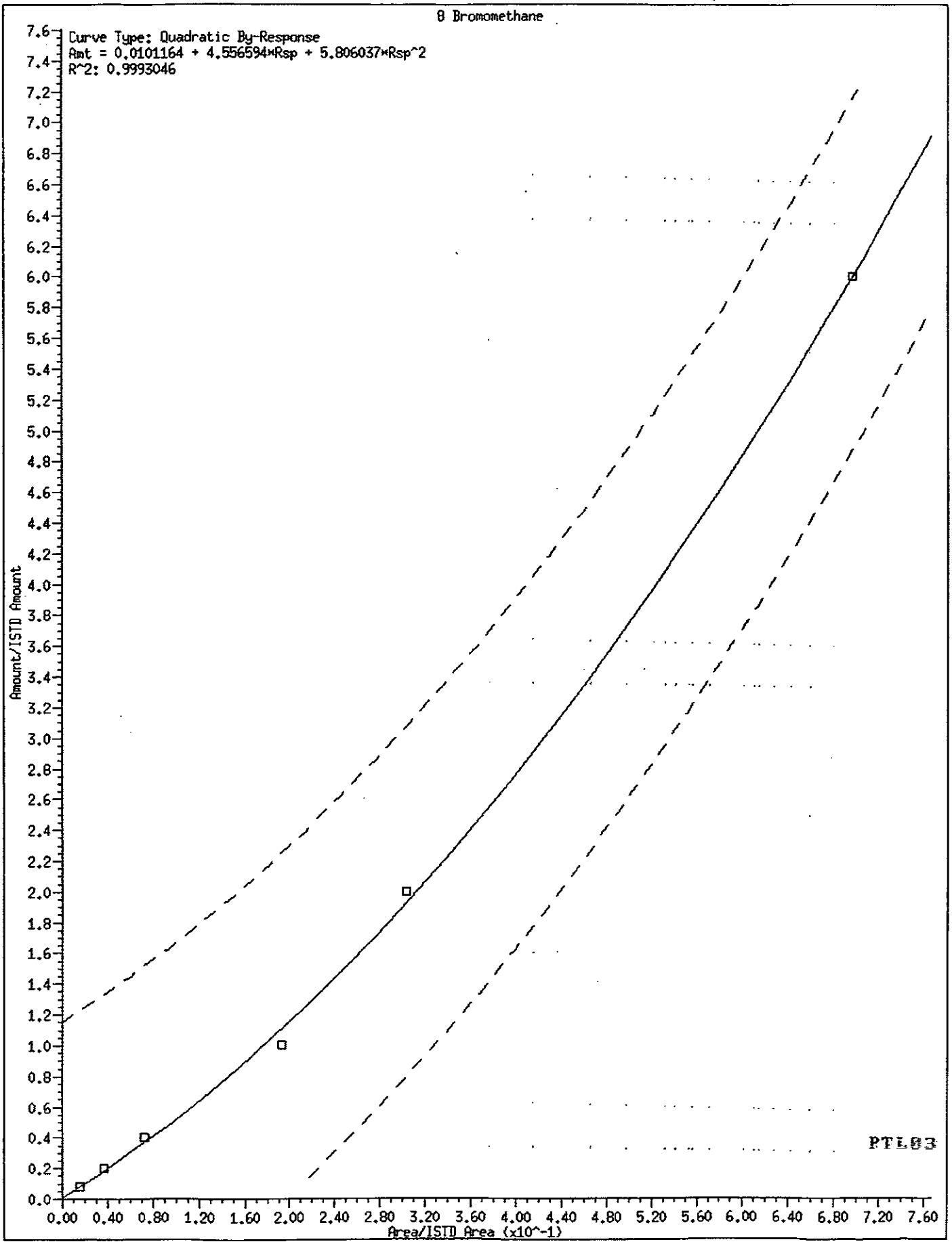
File ID:

Internal Standard Name	lc08i01.d	lc08i02.d	lc08i03.d	lc08i04.d	lc08i05.d	lc08i06.d	Avg. RT
t-Butyl Alcohol-d10	3.839	3.826	3.829	3.832	3.841	3.842	3.835
Fluorobenzene	7.305	7.305	7.305	7.308	7.308	7.301	7.305
Chlorobenzene-d5	10.874	10.874	10.874	10.874	10.873	10.870	10.873
1,4-Dichlorobenzene-d4	12.767	12.767	12.767	12.768	12.767	12.767	12.767

* indicates the retention time is greater than 30 seconds from the average RT.

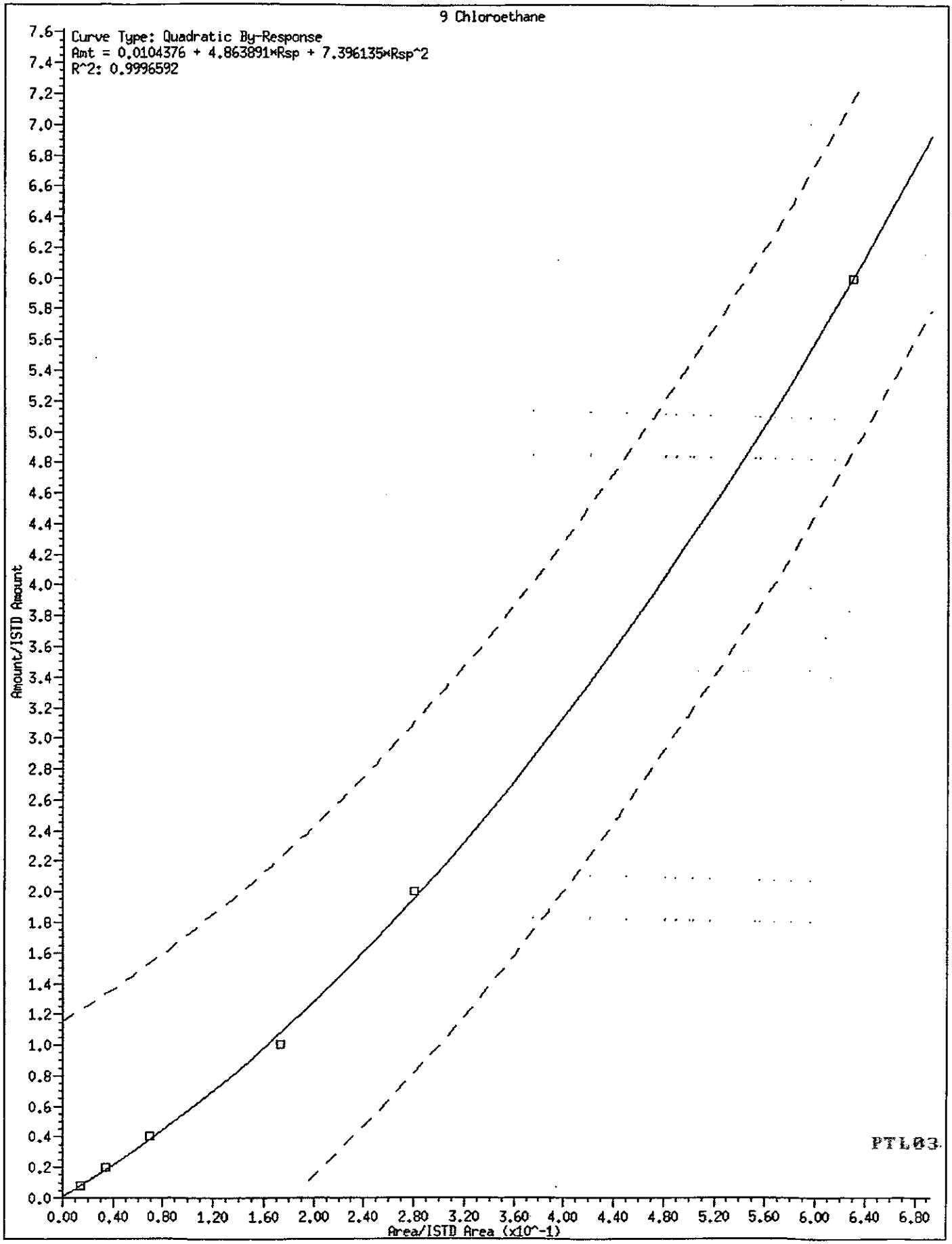
Report generated on 10/08/2009 at 22:08.

MA/2011 10/8/01

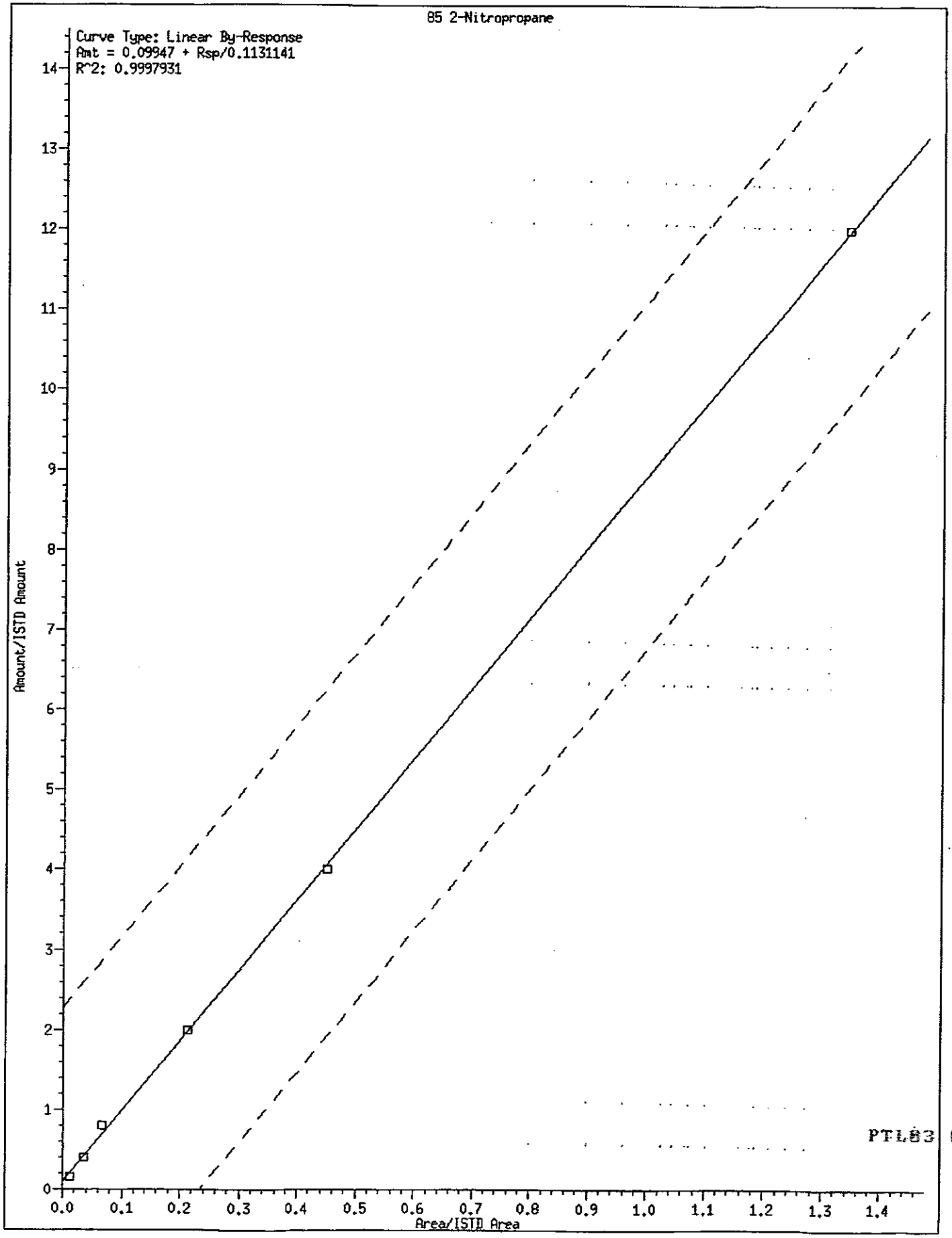


PTL03 0318

MA/2011
10/8/09



PTL03 0319


85 2-Nitropropane
Curve Type: Linear By-Response
Amt = 0.09947 + Rsp/0.1131141
R^2: 0.9997931
Amount/ISTD Amount
Area/ISTD Area
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4

PTL83 0320

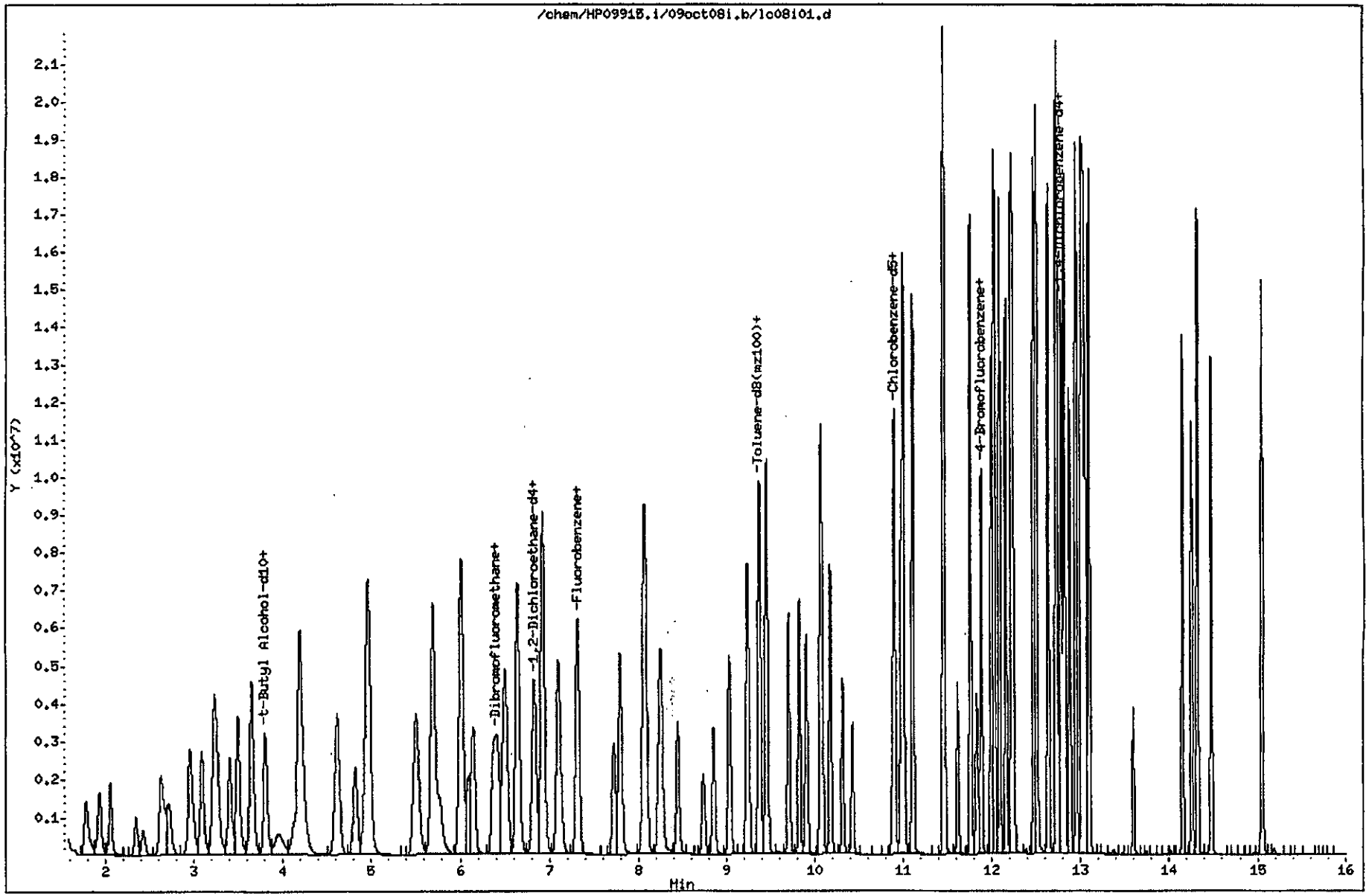
Data File: /chem/HP09915.i/09oct08i.b/lc08i01.d
Date : 08-OCT-2009 17:10
Client ID: VSTD300
Sample Info: VSTD300;VSTD300;1;1;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: MAZ02012
Column diameter: 0.25

MJ/WL 10/6/09

PTI 33 #321



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/lc08i01.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 17:10 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:28 maz02012

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.778	85	3416582	305.832
3) Chloromethane	(1)	1.935	50	2891799	299.799
4) Vinyl Chloride	(1)	2.057	62	2655905	302.033
8) Bromomethane	(1)	2.343	94	935521	300.309
9) Chloroethane	(1)	2.424	64	845126	300.239
10) Dichlorofluoromethane	(1)	2.623	67	3020757	255.055
11) Trichlorofluoromethane	(1)	2.713	101	3341793M	281.558
15) Ethyl Ether	(1)	2.951	59	1149807	269.843
16) Freon 123a	(1)	2.967	67	1893870	270.342
18) Acrolein	(4)	3.089	56	3745469	2488.774
19) 1,1-Dichloroethene	(1)	3.224	96	1522498	261.543
20) Freon 113	(1)	3.253	101	1834816	269.219
21) Acetone	(1)	3.257	43	1647262	534.031
22) 2-Propanol	(4)	3.417	45	1477166	1553.045
23) Methyl Iodide	(1)	3.405	142	3801020	303.108
24) Carbon Disulfide	(1)	3.495	76	7555841	310.718
27) Allyl Chloride	(1)	3.646	41	3939421	312.833
28) Methyl Acetate	(1)	3.662	43	2582875	306.341
29) Methylene Chloride	(1)	3.803	84	2229976	281.265
30)*t-Butyl Alcohol-d10	(4)	3.839	65	290275	250.000
31) t-Butyl Alcohol	(4)	3.948	59	2034317	1470.849
32) Acrylonitrile	(1)	4.118	53	1208110	298.556
33) trans-1,2-Dichloroethene	(1)	4.183	96	2156942	300.244
34) Methyl Tertiary Butyl Ether	(1)	4.202	73	7187015	307.786
35) n-Hexane	(1)	4.613	57	3600383	321.019
42) 1,2-Dichloroethene (total)	(1)		96	4474485	605.866
36) 1,1-Dichloroethane	(1)	4.816	63	4010874	302.798
40) di-Isopropyl Ether	(1)	4.951	45	8205276	309.307
41) 2-Chloro-1,3-Butadiene	(1)	4.964	53	3843498	324.225
43) Ethyl t-Butyl Ether	(1)	5.504	59	7086778	310.954
44) cis-1,2-Dichloroethene	(1)	5.684	96	2317543	305.621
45) 2-Butanone	(1)	5.700	43	3494173	623.500
46) 2,2-Dichloropropane	(1)	5.700	77	3238379	320.649
47) Propionitrile	(4)	5.781	54	2626530	1503.106

M = Compound was manually integrated.

* = Compound is an internal standard.

PTL83 8322

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/lc08i01.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 17:10 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:28 maz02012

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
50) Methacrylonitrile	(1)	6.006	67	3231415	764.785
51) Bromochloromethane	(1)	6.025	128	1121857	304.345
52) Tetrahydrofuran	(4)	6.096	71	775003	594.025
53) Chloroform	(1)	6.150	83	3699438	309.885
57) 1,1,1-Trichloroethane	(1)	6.417	97	3607255	309.549
60) Cyclohexane	(1)	6.501	56	4487636	325.945
59) Cyclohexane (mz 84)	(1)	6.504	84	3565006	324.714
58) Cyclohexane (mz 69)	(1)	6.504	69	1300019	326.167
61) 1,1-Dichloropropene	(1)	6.642	75	3214758	320.674
62) Carbon Tetrachloride	(1)	6.652	117	3086246	337.974
63) Isobutyl Alcohol	(4)	6.826	41	1969199	3912.505
67) Benzene	(1)	6.925	78	9021783	306.191
68) 1,2-Dichloroethane	(1)	6.941	62	3297814	319.780
69) 1,2-Dichloroethane (mz 98)	(1)	6.941	98	269438	310.695
71) t-Amyl Methyl Ether	(1)	7.105	73	6785058	320.245
72) *Fluorobenzene	(1)	7.305	96	1342287	50.000
74) n-Heptane	(1)	7.321	43	3736049	325.353
75) n-Butanol	(4)	7.726	56	3157540	8016.852
76) Trichloroethene	(1)	7.800	95	2224278	308.513
77) Methylcyclohexane	(1)	8.067	83	3888810	326.603
78) Methylcyclohexane (mz98)	(1)	8.067	98	1744519	327.566
79) 1,2-Dichloropropane	(1)	8.086	63	2488930	312.318
80) Dibromomethane	(1)	8.237	93	1528184	321.190
81) Methyl Methacrylate	(1)	8.263	69	2255495	333.101
82) 1,4-Dioxane	(4)	8.266	88	493830	4112.733
84) Bromodichloromethane	(1)	8.449	83	2948302	338.672
85) 2-Nitropropane	(1)	8.742	41	1804186	599.114
86) 2-Chloroethyl Vinyl Ether	(1)	8.854	63	1895655	325.464
87) cis-1,3-Dichloropropene	(1)	9.035	75	3829645	329.559
89) 4-Methyl-2-Pentanone	(1)	9.240	43	7208901	628.910
93) Toluene	(2)	9.456	92	5387260	299.392
94) trans-1,3-Dichloropropene	(2)	9.707	75	3751549	330.026
95) Ethyl Methacrylate	(2)	9.825	69	3691090	322.008
96) 1,1,2-Trichloroethane	(2)	9.906	97	2034690	303.771

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/lc08i01.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 17:10 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:28 maz02012

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
97) Tetrachloroethene	(2)	10.067	166	2370729	297.909
98) 1,3-Dichloropropane	(2)	10.083	76	3763402	304.705
100) 2-Hexanone	(2)	10.176	43	5501862	624.295
102) Dibromochloromethane	(2)	10.314	129	2556136	341.001
103) 1,2-Dibromoethane	(2)	10.424	107	2391066	317.944
104) *Chlorobenzene-d5	(2)	10.874	117	1011320	50.000
105) Chlorobenzene	(2)	10.899	112	6187965	302.717
107) 1,1,1,2-Tetrachloroethane	(2)	10.977	131	2283799	328.041
108) Ethylbenzene	(2)	11.005	91	10796269	310.210
109) m+p-Xylene	(2)	11.108	106	4195457	308.054
110) Xylene (Total)	(2)		106	7715397	583.679
111) o-Xylene	(2)	11.452	106	3519940	275.624
112) Styrene	(2)	11.465	104	5921499	282.807
113) Bromoform	(2)	11.616	173	1938271	354.061
115) Isopropylbenzene	(2)	11.761	105	10248701	307.873
117) Cyclohexanone	(4)	11.832	55	1811255	4171.117
120) 1,1,2,2-Tetrachloroethane	(3)	11.989	83	3209599	295.487
122) Bromobenzene	(3)	12.005	156	2539104	285.959
123) 1,2,3-Trichloropropane	(3)	12.025	110	890915	280.076
124) trans-1,4-Dichloro-2-Butene	(3)	12.034	53	2791337	768.768
125) n-Propylbenzene	(3)	12.089	120	2940107	298.277
126) 2-Chlorotoluene	(3)	12.160	126	2498440	297.395
127) 1,3,5-Trimethylbenzene	(3)	12.221	120	4121182	290.364
128) 4-Chlorotoluene	(3)	12.243	126	2504048	286.426
130) tert-Butylbenzene	(3)	12.475	134	1852717	288.983
131) Pentachloroethane	(3)	12.491	167	1649181	302.674
132) 1,2,4-Trimethylbenzene	(3)	12.507	105	8600057	291.607
134) sec-Butylbenzene	(3)	12.636	134	2240257	302.477
135) 1,3-Dichlorobenzene	(3)	12.722	146	4636013	281.694
136) p-Isopropyltoluene	(3)	12.739	134	2385124	286.410
137) *1,4-Dichlorobenzene-d4	(3)	12.767	152	578518	50.000
138) 1,4-Dichlorobenzene	(3)	12.787	146	5163328	296.300
139) 1,2,3-Trimethylbenzene	(3)	12.819	120	3943043	299.542
140) Benzyl Chloride	(3)	12.880	91	7494491	348.330

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/lc08i01.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 17:10 Analyst ID: MAZ02012

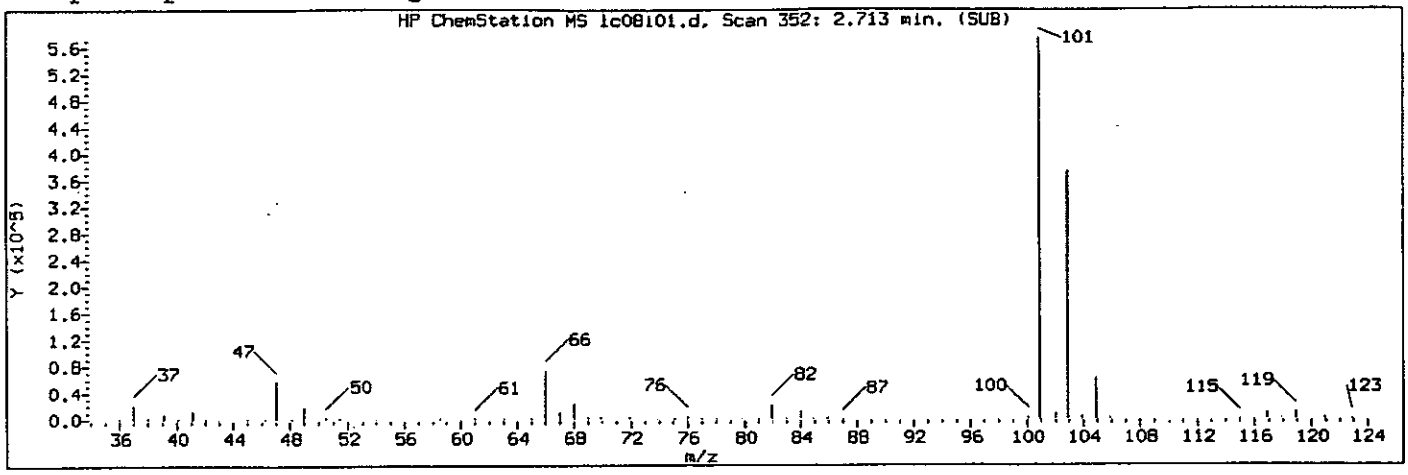
Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:28 maz02012

Sample Name: VSTD300 Lab Sample ID: VSTD300

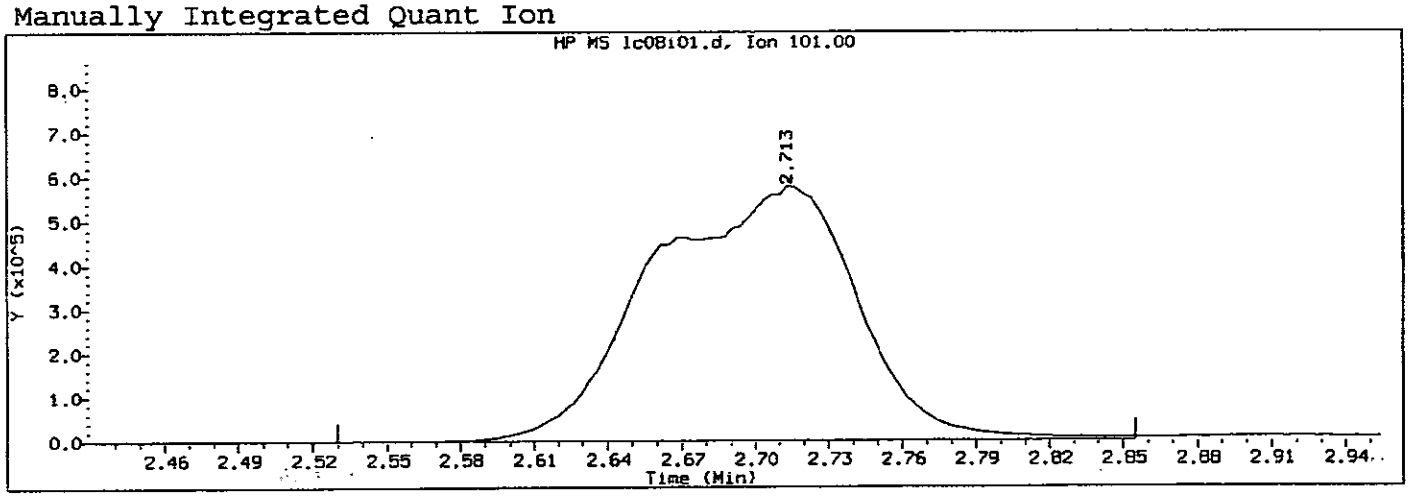
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
141) 1,3-Diethylbenzene	(3)	12.951	119	5488191	301.293
142) 1,4-Diethylbenzene	(3)	13.012	119	5270955	292.940
143) n-Butylbenzene	(3)	13.031	92	4336032	287.402
144) 1,2-Dichlorobenzene	(3)	13.057	146	4771911	295.985
145) 1,2-Diethylbenzene	(3)	13.099	119	4529851	302.471
146) 1,2-Dibromo-3-Chloropropane	(3)	13.591	75	809494	345.045
147) 1,2,4-Trichlorobenzene	(3)	14.153	180	3705563	300.632
148) Hexachlorobutadiene	(3)	14.256	225	1894650	284.419
149) Naphthalene	(3)	14.320	128	11473754	308.387
150) 1,2,3-Trichlorobenzene	(3)	14.478	180	3585696	292.406
152) 2-Methylnaphthalene	(3)	15.054	142	6593287	312.359
54)$Dibromofluoromethane	(1)	6.372	113	2133656	310.531
55)$Dibromofluoromethane(mz111)	(1)	6.372	111	2177827	309.476
64)$1,2-Dichloroethane-d4	(1)	6.835	102	497830	300.039
65)$1,2-Dichloroethane-d4(mz65)	(1)	6.835	65	2639890	310.591
66)$1,2-Dichloroethane-d4(mz104)	(1)	6.835	104	319534	303.198
91)$Toluene-d8	(2)	9.375	98	8258715	292.962
90)$Toluene-d8(mz100)	(2)	9.375	100	5333414	295.440
119)$4-Bromofluorobenzene	(2)	11.883	95	3025106	302.502
118)$4-Bromofluorobenzene(mz174)	(2)	11.883	174	2555753	292.446

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08i01.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 17:10 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 18:02
Date, time and analyst ID of latest file update: 12-Oct-2009 18:28 maz02012

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number	:	11
Compound Name	:	Trichlorofluoromethane
Scan Number	:	352
Retention Time (minutes)	:	2.713
Quant Ion	:	101
Area (flag)	:	3341793 M
Concentration (ug/L)	:	281.5575
Integration start scan	:	294 Integration stop scan: 395
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak (improper) integration

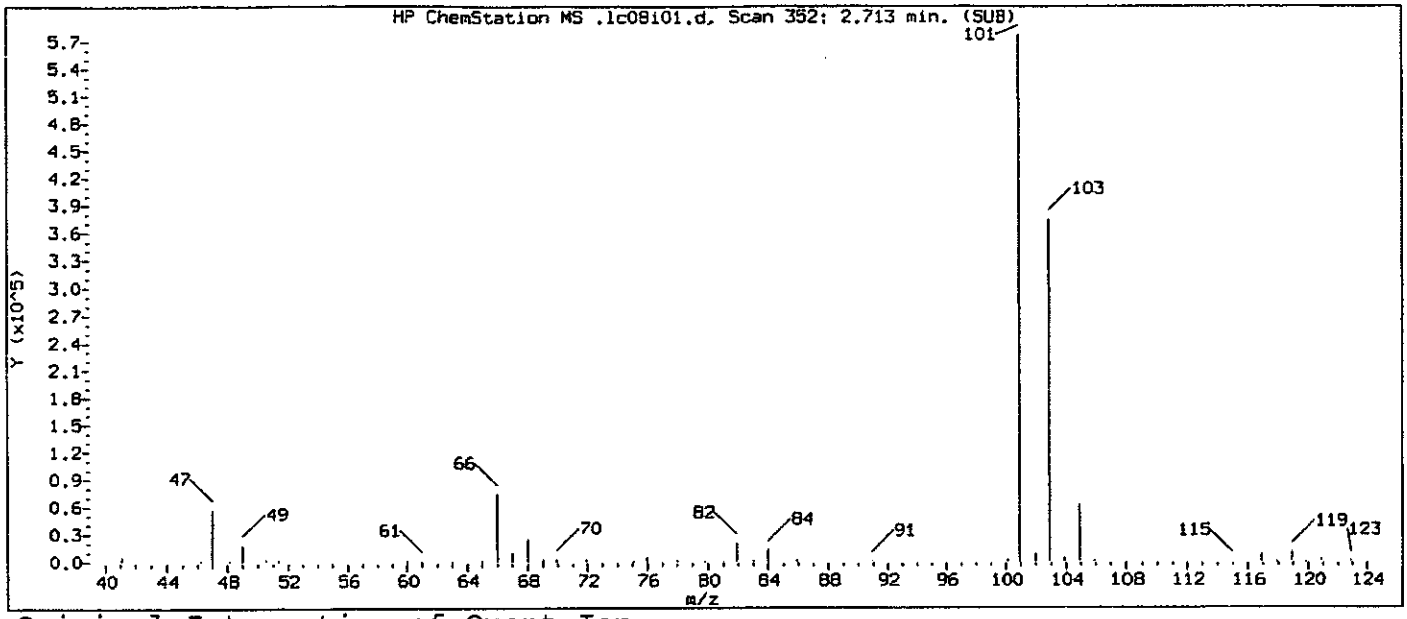
Analyst responsible for change: MAZ 10/12/09

GC/MS audit/management approval: [signature] 10-12-09

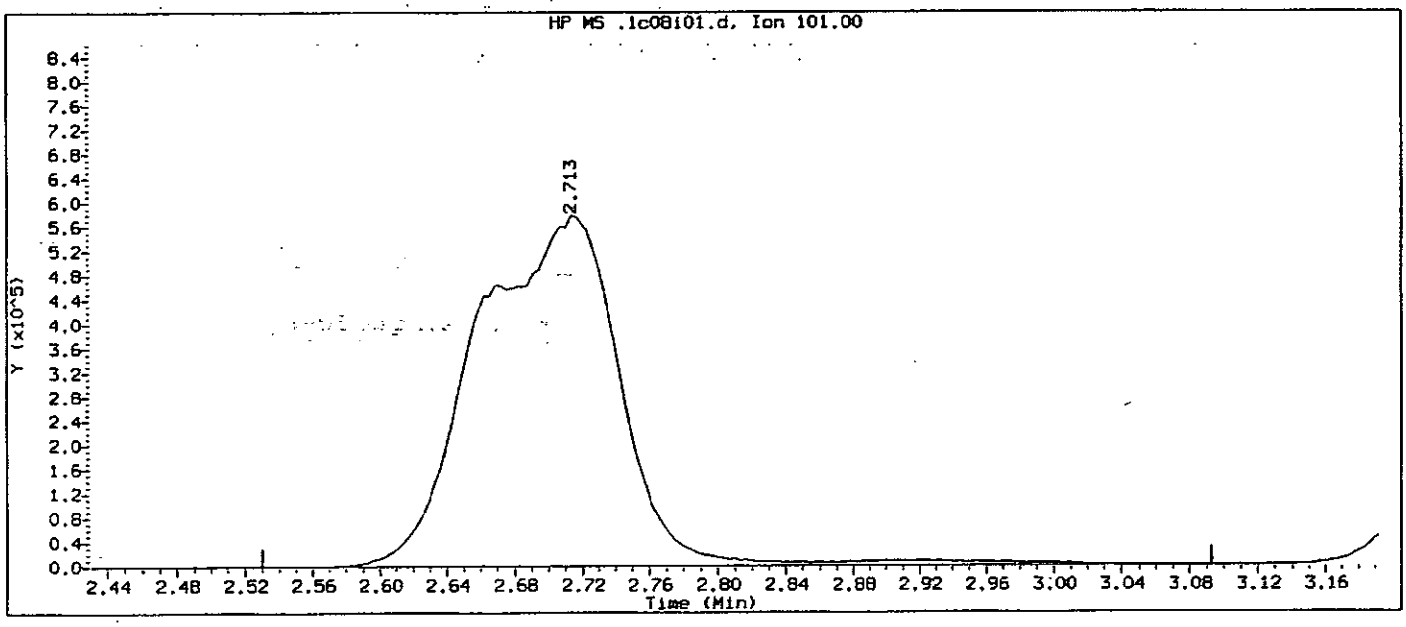
PTL03 0326

Manual Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08i01.d, generated on 10/12/2009 at 18:28

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08i01.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 17:10 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 17:28
Date, time and analyst ID of latest file update: 08-Oct-2009 17:28 Automation

Sample Name: VSTD300 Lab Sample ID: VSTD300

Compound Number	: 11
Compound Name	: Trichlorofluoromethane
Scan Number	: 352
Retention Time (minutes)	: 2.713
Quant Ion	: 101
Area	: 3406054
Concentration (ug/L)	: 298.7750
Integration start scan	: 294 Integration stop scan: 469
Y at integration start	: 0 Y at integration end: 0

PTL03 0327

Original Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08i01.d, generated on 10/12/2009 at 18:28

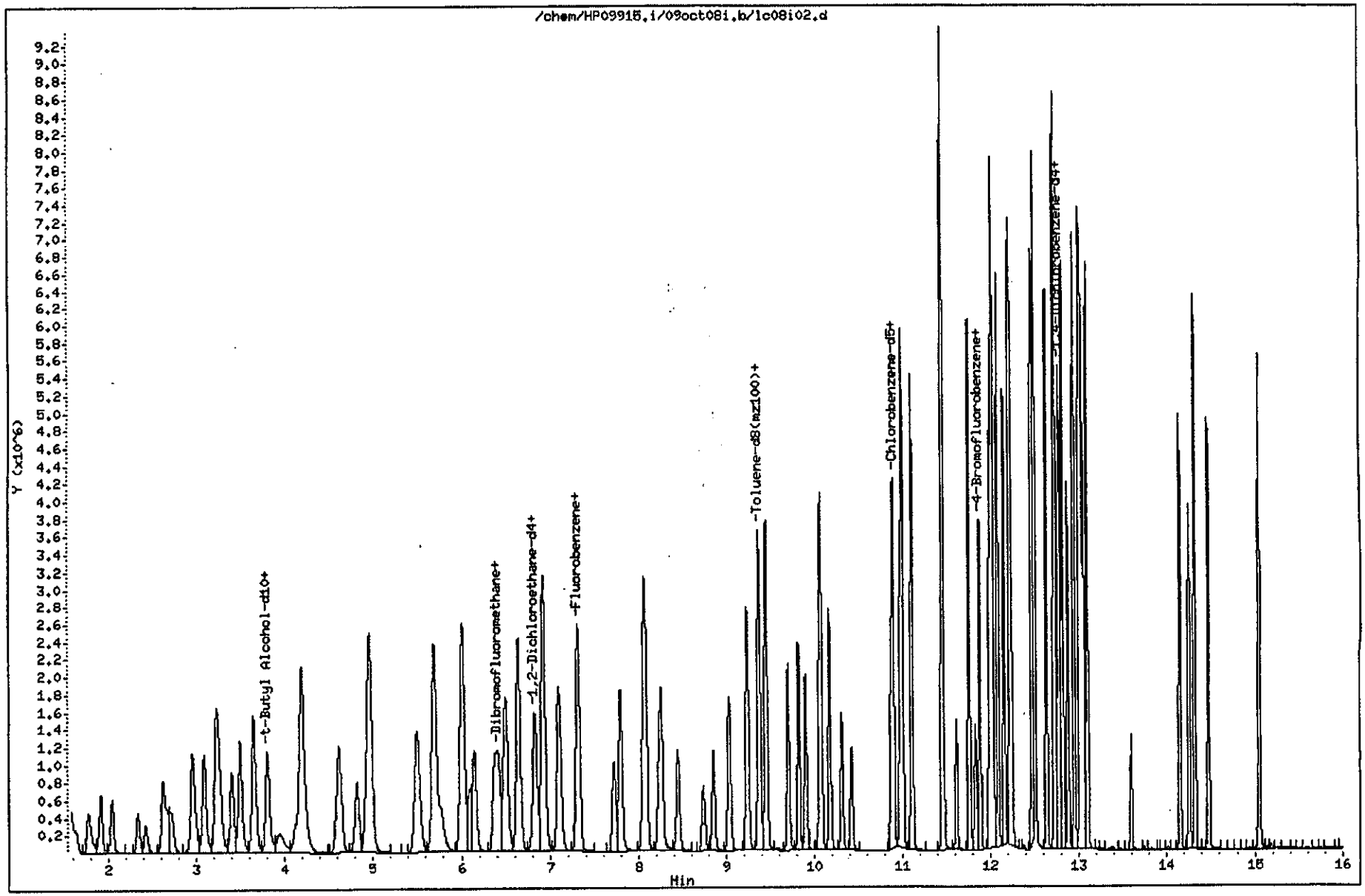
Data File: /chem/HP09915.i/09oct08i.b/lc08i02.d
Date : 08-OCT-2009 17:31
Client ID: VSTD100
Sample Info: VSTD100;VSTD100;1;1;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: MAZ02012
Column diameter: 0.25

MAZ02012 10/8/09

PTI83 0328



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/lc08i02.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 17:31 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 08-Oct-2009 18:04 maz02012

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.774	85	1099709	96.479
3) Chloromethane	(1)	1.916	50	962797	98.167
4) Vinyl Chloride	(1)	2.044	62	865834	97.115
8) Bromomethane	(1)	2.337	94	421742	113.243
9) Chloroethane	(1)	2.421	64	388786	114.237
10) Dichlorofluoromethane	(1)	2.620	67	1210352	107.413
11) Trichlorofluoromethane	(1)	2.704	101	1194896	100.782
15) Ethyl Ether	(1)	2.951	59	446664	105.873
16) Freon 123a	(1)	2.964	67	717100	104.595
18) Acrolein	(4)	3.089	56	1544281	1106.864
19) 1,1-Dichloroethene	(1)	3.221	96	577774	104.707
20) Freon 113	(1)	3.250	101	699038	104.903
21) Acetone	(1)	3.257	43	642492	212.147
22) 2-Propanol	(4)	3.414	45	475844	491.937
23) Methyl Iodide	(1)	3.401	142	1337850	100.946
24) Carbon Disulfide	(1)	3.495	76	2614000	100.085
27) Allyl Chloride	(1)	3.649	41	1343888	99.383
28) Methyl Acetate	(1)	3.659	43	890558	99.916
29) Methylene Chloride	(1)	3.803	84	785152	100.963
30) *t-Butyl Alcohol-d10	(4)	3.826	65	289717	250.000
31) t-Butyl Alcohol	(4)	3.948	59	705348	510.327
32) Acrylonitrile	(1)	4.118	53	429920	101.496
33) trans-1,2-Dichloroethene	(1)	4.189	96	755868	100.728
34) Methyl Tertiary Butyl Ether	(1)	4.195	73	2520714	100.770
35) n-Hexane	(1)	4.617	57	1213579	98.784
42) 1,2-Dichloroethene (total)	(1)		96	1565622	201.308
36) 1,1-Dichloroethane	(1)	4.819	63	1390945	100.206
40) di-Isopropyl Ether	(1)	4.948	45	2867104	100.583
41) 2-Chloro-1,3-Butadiene	(1)	4.964	53	1301166	99.001
43) Ethyl t-Butyl Ether	(1)	5.501	59	2496884	100.997
44) cis-1,2-Dichloroethene	(1)	5.687	96	809754	100.580
45) 2-Butanone	(1)	5.700	43	1243201	202.973
46) 2,2-Dichloropropane	(1)	5.691	77	1121550	100.139
47) Propionitrile	(4)	5.774	54	912167	510.734

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/lc08i02.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 17:31 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 08-Oct-2009 18:04 maz02012

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
50) Methacrylonitrile	(1)	6.006	67	1143435	253.031
51) Bromochloromethane	(1)	6.028	128	393943	100.830
52) Tetrahydrofuran	(4)	6.096	71	278386	207.664
53) Chloroform	(1)	6.150	83	1289740	100.470
57) 1,1,1-Trichloroethane	(1)	6.417	97	1231404	99.417
60) Cyclohexane	(1)	6.504	56	1544728	99.833
59) Cyclohexane (mz 84)	(1)	6.504	84	1227804	99.860
58) Cyclohexane (mz 69)	(1)	6.501	69	445032	99.557
61) 1,1-Dichloropropene	(1)	6.642	75	1109359	99.958
62) Carbon Tetrachloride	(1)	6.649	117	1036732	98.613
63) Isobutyl Alcohol	(4)	6.819	41	682775	1275.821
67) Benzene	(1)	6.922	78	3223303	101.695
68) 1,2-Dichloroethane	(1)	6.938	62	1130799	99.640
69) 1,2-Dichloroethane (mz 98)	(1)	6.941	98	93425	100.198
71) t-Amyl Methyl Ether	(1)	7.102	73	2380783	100.792
72) *Fluorobenzene	(1)	7.305	96	1390761	50.000
74) n-Heptane	(1)	7.321	43	1255095	98.616
75) n-Butanol	(4)	7.719	56	1102453	2560.339
76) Trichloroethene	(1)	7.800	95	787096	101.215
77) Methylcyclohexane	(1)	8.063	83	1324289	99.295
78) Methylcyclohexane (mz98)	(1)	8.063	98	597228	99.560
79) 1,2-Dichloropropane	(1)	8.083	63	876877	100.995
80) Dibromomethane	(1)	8.231	93	526866	99.912
81) Methyl Methacrylate	(1)	8.263	69	772003	99.550
82) 1,4-Dioxane	(4)	8.269	88	171256	1275.937
84) Bromodichloromethane	(1)	8.449	83	984525	98.316
85) 2-Nitropropane	(1)	8.739	41	625423	200.370
86) 2-Chloroethyl Vinyl Ether	(1)	8.854	63	659016	100.328
87) cis-1,3-Dichloropropene	(1)	9.031	75	1320305	99.911
89) 4-Methyl-2-Pentanone	(1)	9.240	43	2622574	205.196
93) Toluene	(2)	9.456	92	1900594	102.227
94) trans-1,3-Dichloropropene	(2)	9.703	75	1273316	100.294
95) Ethyl Methacrylate	(2)	9.822	69	1285432	101.580
96) 1,1,2-Trichloroethane	(2)	9.903	97	709544	101.647

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/1c08i02.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 17:31 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 08-Oct-2009 18:04 maz02012

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
97) Tetrachloroethene	(2)	10.067	166	848325	102.936
98) 1,3-Dichloropropane	(2)	10.079	76	1337391	102.591
100) 2-Hexanone	(2)	10.173	43	1980559	206.470
102) Dibromochloromethane	(2)	10.311	129	851696	99.370
103) 1,2-Dibromoethane	(2)	10.424	107	817046	100.631
104) *Chlorobenzene-d5	(2)	10.874	117	1023718	50.000
105) Chlorobenzene	(2)	10.899	112	2178719	102.128
107) 1,1,1,2-Tetrachloroethane	(2)	10.977	131	773671	100.199
108) Ethylbenzene	(2)	11.002	91	3823561	102.420
109) m+p-Xylene	(2)	11.108	106	1484211	102.365
110) Xylene (Total)	(2)		106	2883575	210.547
111) o-Xylene	(2)	11.452	106	1399364	108.182
112) Styrene	(2)	11.462	104	2348345	108.060
113) Bromoform	(2)	11.616	173	639302	98.863
115) Isopropylbenzene	(2)	11.761	105	3676414	103.060
117) Cyclohexanone	(4)	11.832	55	611871M	1259.552
120) 1,1,2,2-Tetrachloroethane	(3)	11.989	83	1159301	103.545
122) Bromobenzene	(3)	12.005	156	953319	105.477
123) 1,2,3-Trichloropropane	(3)	12.025	110	344296	106.915
124) trans-1,4-Dichloro-2-Butene	(3)	12.031	53	1010089	259.093
125) n-Propylbenzene	(3)	12.086	120	1051633	103.057
126) 2-Chlorotoluene	(3)	12.157	126	895825	103.178
127) 1,3,5-Trimethylbenzene	(3)	12.221	120	1545424	105.416
128) 4-Chlorotoluene	(3)	12.240	126	933104	105.101
130) tert-Butylbenzene	(3)	12.472	134	695733	105.485
131) Pentachloroethane	(3)	12.488	167	604156	104.250
132) 1,2,4-Trimethylbenzene	(3)	12.504	105	3251856	105.829
134) sec-Butylbenzene	(3)	12.636	134	799300	102.932
135) 1,3-Dichlorobenzene	(3)	12.722	146	1766378	106.209
136) p-Isopropyltoluene	(3)	12.735	134	917236	106.671
137) *1,4-Dichlorobenzene-d4	(3)	12.767	152	583953	50.000
138) 1,4-Dichlorobenzene	(3)	12.787	146	1846137	103.038
139) 1,2,3-Trimethylbenzene	(3)	12.819	120	1424056	103.539
140) Benzyl Chloride	(3)	12.877	91	2503514	99.639

M = Compound was manually integrated.

* = Compound is an internal standard.

PTL03 6331

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/lc08i02.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 17:31 Analyst ID: MAZ02012

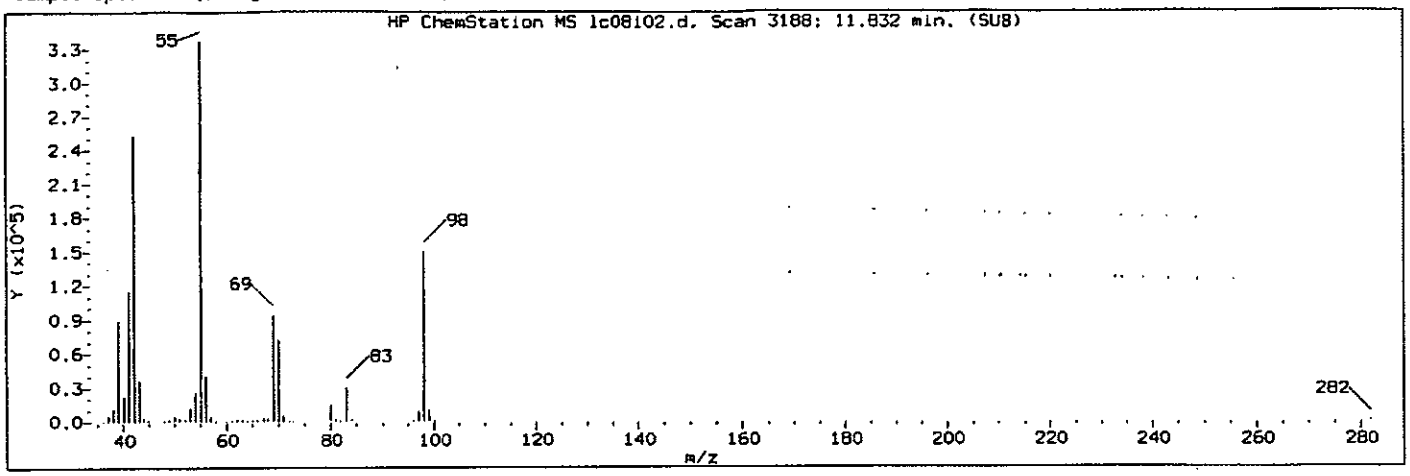
Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 08-Oct-2009 18:04 maz02012

Sample Name: VSTD100 Lab Sample ID: VSTD100

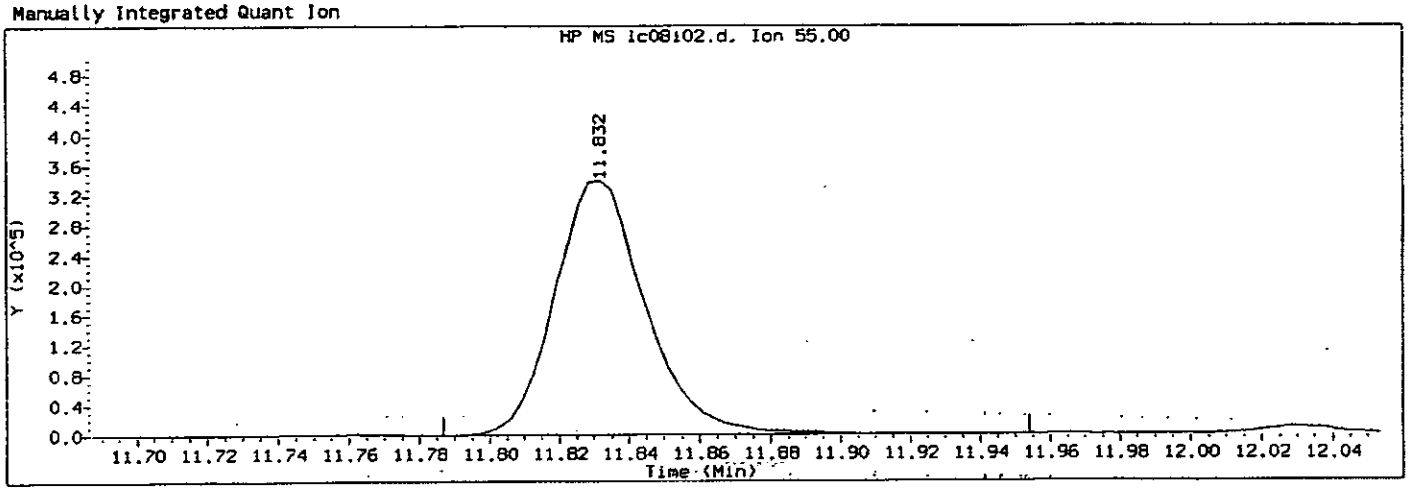
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
141) 1,3-Diethylbenzene	(3)	12.948	119	1979378	103.471
142) 1,4-Diethylbenzene	(3)	13.012	119	1962698	105.064
143) n-Butylbenzene	(3)	13.031	92	1649687	106.137
144) 1,2-Dichlorobenzene	(3)	13.057	146	1703872	102.970
145) 1,2-Diethylbenzene	(3)	13.099	119	1618005	102.987
146) 1,2-Dibromo-3-Chloropropane	(3)	13.591	75	267120	99.028
147) 1,2,4-Trichlorobenzene	(3)	14.153	180	1343632	103.738
148) Hexachlorobutadiene	(3)	14.256	225	680512	103.265
149) Naphthalene	(3)	14.320	128	4142932	103.529
150) 1,2,3-Trichlorobenzene	(3)	14.475	180	1333123	104.988
152) 2-Methylnaphthalene	(3)	15.054	142	2420782	104.362
54) $Dibromofluoromethane	(1)	6.372	113	779576	102.814
55) $Dibromofluoromethane(mz111)	(1)	6.369	111	797086	102.900
64) $1,2-Dichloroethane-d4	(1)	6.835	102	186234	103.992
65) $1,2-Dichloroethane-d4(mz65)	(1)	6.835	65	955604	102.349
66) $1,2-Dichloroethane-d4(mz104)	(1)	6.835	104	119475	103.967
91) $Toluene-d8	(2)	9.375	98	3080736	105.012
90) $Toluene-d8(mz100)	(2)	9.375	100	1988550	104.988
119) $4-Bromofluorobenzene	(2)	11.880	95	1106393	104.027
118) $4-Bromofluorobenzene(mz174)	(2)	11.883	174	961405	105.431

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08i02.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 17:31 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 18:02
Date, time and analyst ID of latest file update: 08-Oct-2009 18:04 maz02012

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number : 117
Compound Name : Cyclohexanone
Scan Number : 3188
Retention Time (minutes): 11.832
Quant Ion : 55
Area (flag) : 611871 M
Concentration (ug/L) : 1259.5522
Integration start scan : 3173 Integration stop scan: 3225
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): (missed peak) improper integration

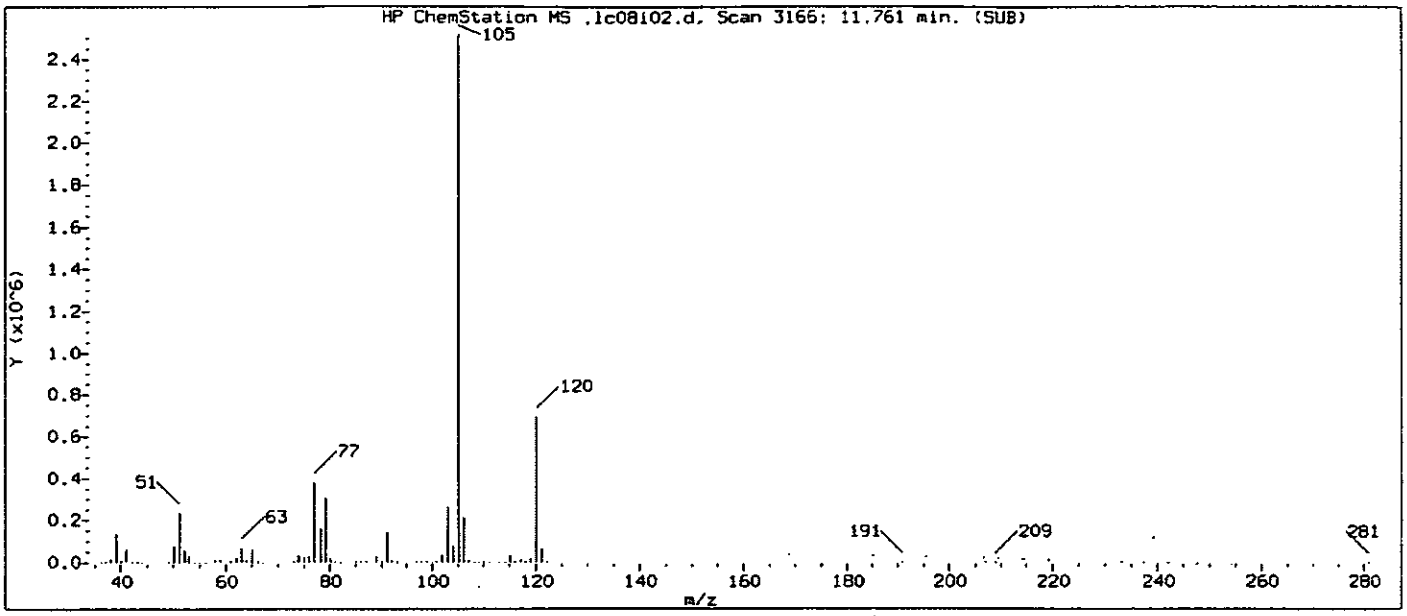
Analyst responsible for change: MS 10/8/09

GC/MS audit/management approval: 10/8/09

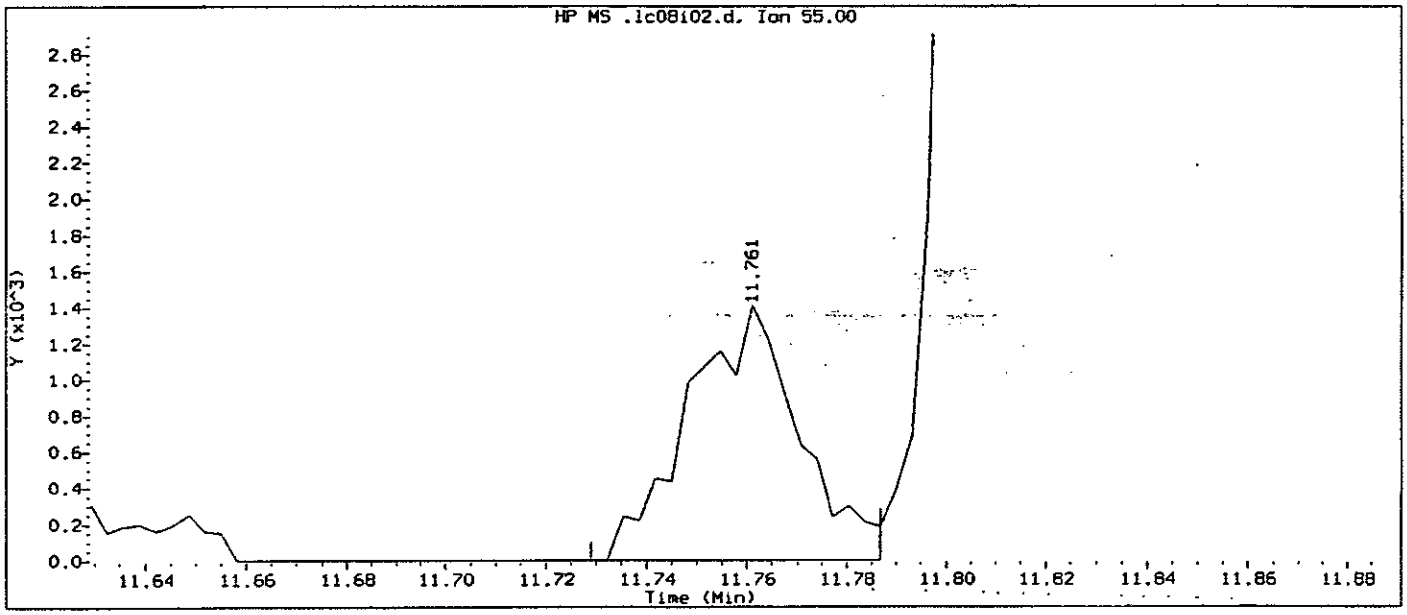
PTL03 6333

Manual Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08i02.d, generated on 10/08/2009 at 18:04

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08i02.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 17:31 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 17:50
Date, time and analyst ID of latest file update: 08-Oct-2009 17:50 Automation

Sample Name: VSTD100 Lab Sample ID: VSTD100

Compound Number : 117
Compound Name : Cyclohexanone
Scan Number : 3166
Retention Time (minutes): 11.761
Quant Ion : 55
Area : 2151
Concentration (ug/L) : 6.4415
Integration start scan : 3155 Integration stop scan: 3173
Y at integration start : 0 Y at integration end: 0

PTL03 0334

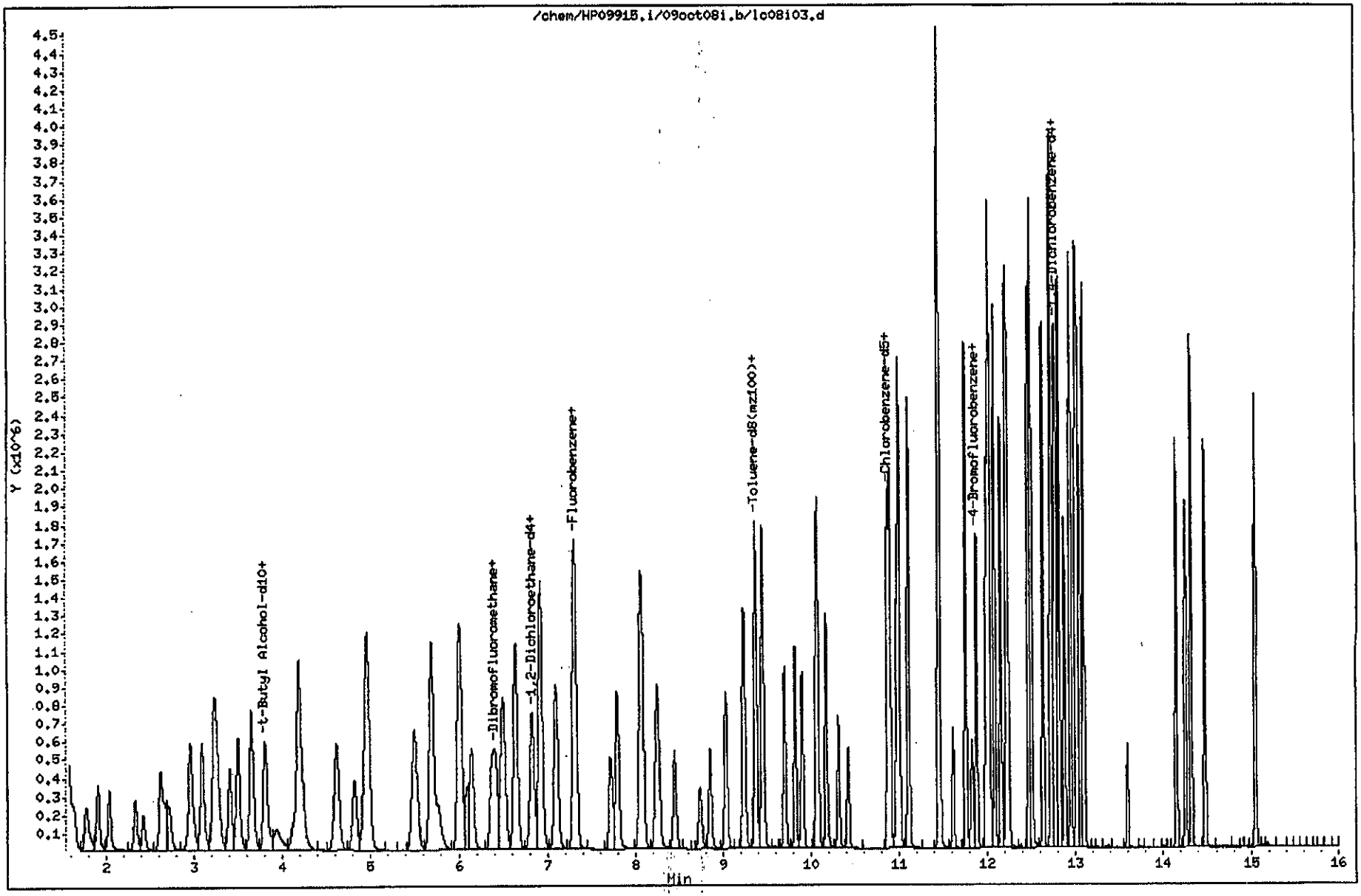
Original Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08i02.d, generated on 10/08/2009 at 18:04

Data File: /chem/HP09915.i/09oct08i.b/lc08i03.d
Date : 08-OCT-2009 17:53
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;1;1;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: HAZ02012
Column diameter: 0.25

ng/mL
10/08/09



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/lc08i03.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 17:53 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:29 maz02012

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.768	85	580139	50.851
3) Chloromethane	(1)	1.906	50	505291	51.295
4) Vinyl Chloride	(1)	2.035	62	463771	51.644
8) Bromomethane	(1)	2.334	94	264735	55.333
9) Chloroethane	(1)	2.424	64	237455	53.746
10) Dichlorofluoromethane	(1)	2.623	67	633017	52.337
11) Trichlorofluoromethane	(1)	2.703	101	619022M	51.570
15) Ethyl Ether	(1)	2.948	59	229146	52.659
16) Freon 123a	(1)	2.967	67	374997	52.416
18) Acrolein	(4)	3.089	56	785699	540.295
19) 1,1-Dichloroethene	(1)	3.221	96	297620	50.064
20) Freon 113	(1)	3.253	101	360767	51.834
21) Acetone	(1)	3.256	43	328304	104.221
22) 2-Propanol	(4)	3.408	45	222829M	244.368
23) Methyl Iodide	(1)	3.404	142	652814	50.976
24) Carbon Disulfide	(1)	3.498	76	1277772	51.453
27) Allyl Chloride	(1)	3.649	41	674078	52.416
28) Methyl Acetate	(1)	3.662	43	448621	52.102
29) Methylene Chloride	(1)	3.800	84	386879	47.782
30) *t-Butyl Alcohol-d10	(4)	3.829	65	280488	250.000
31) t-Butyl Alcohol	(4)	3.938	59	335711	251.195
32) Acrylonitrile	(1)	4.118	53	210411	50.917
33) trans-1,2-Dichloroethene	(1)	4.186	96	370536	50.506
34) Methyl Tertiary Butyl Ether	(1)	4.199	73	1213470	50.887
35) n-Hexane	(1)	4.613	57	588052	51.342
42) 1,2-Dichloroethene (total)	(1)		96	760179	100.821
36) 1,1-Dichloroethane	(1)	4.819	63	678927	50.189
40) di-Isopropyl Ether	(1)	4.951	45	1368354	50.509
41) 2-Chloro-1,3-Butadiene	(1)	4.967	53	621306	51.322
43) Ethyl t-Butyl Ether	(1)	5.494	59	1190221	51.139
44) cis-1,2-Dichloroethene	(1)	5.684	96	389643	50.315
45) 2-Butanone	(1)	5.700	43	589309	102.970
46) 2,2-Dichloropropane	(1)	5.694	77	528223	51.215
47) Propionitrile	(4)	5.777	54	432554	256.179

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/lc08i03.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 17:53 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:29 maz02012

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
50) Methacrylonitrile	(1)	6.006	67	547743	126.940
51) Bromochloromethane	(1)	6.025	128	196797	52.278
52) Tetrahydrofuran	(4)	6.099	71	131167	104.045
53) Chloroform	(1)	6.147	83	615593	50.493
57) 1,1,1-Trichloroethane	(1)	6.417	97	579164	48.666
60) Cyclohexane	(1)	6.504	56	726385	51.662
59) Cyclohexane (mz 84)	(1)	6.504	84	580473	51.772
58) Cyclohexane (mz 69)	(1)	6.501	69	209337	51.429
61) 1,1-Dichloropropene	(1)	6.639	75	522510	51.037
62) Carbon Tetrachloride	(1)	6.649	117	484733	51.979
63) Isobutyl Alcohol	(4)	6.822	41	314180	646.010
67) Benzene	(1)	6.925	78	1540774	51.205
68) 1,2-Dichloroethane	(1)	6.938	62	533708	50.676
69) 1,2-Dichloroethane (mz 98)	(1)	6.941	98	44631	50.395
71) t-Amyl Methyl Ether	(1)	7.099	73	1123349	51.918
72) *Fluorobenzene	(1)	7.305	96	1370788	50.000
74) n-Heptane	(1)	7.321	43	606319	51.703
75) n-Butanol	(4)	7.719	56	488242	1282.878
76) Trichloroethene	(1)	7.796	95	377419	51.261
77) Methylcyclohexane	(1)	8.063	83	649051	53.377
78) Methylcyclohexane (mz98)	(1)	8.063	98	290189	53.356
79) 1,2-Dichloropropane	(1)	8.083	63	418230	51.389
80) Dibromomethane	(1)	8.234	93	248718	51.188
81) Methyl Methacrylate	(1)	8.263	69	366228	52.962
82) 1,4-Dioxane	(4)	8.259	88	67473	581.538
84) Bromodichloromethane	(1)	8.446	83	460053	51.748
85) 2-Nitropropane	(1)	8.742	41	291737	99.049
86) 2-Chloroethyl Vinyl Ether	(1)	8.857	63	311727	52.407
87) cis-1,3-Dichloropropene	(1)	9.034	75	628939	52.998
89) 4-Methyl-2-Pentanone	(1)	9.240	43	1251239	106.889
93) Toluene	(2)	9.452	92	914610	51.038
94) trans-1,3-Dichloropropene	(2)	9.706	75	598740	52.889
95) Ethyl Methacrylate	(2)	9.822	69	609507	53.392
96) 1,1,2-Trichloroethane	(2)	9.902	97	341344	51.172

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/lc08i03.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 17:53 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:29 maz02012

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
97) Tetrachloroethene	(2)	10.066	166	407830	51.460
98) 1,3-Dichloropropane	(2)	10.079	76	637405	51.821
100) 2-Hexanone	(2)	10.176	43	944692	107.636
102) Dibromochloromethane	(2)	10.311	129	394742	52.878
103) 1,2-Dibromoethane	(2)	10.420	107	387346	51.718
104) *Chlorobenzene-d5	(2)	10.874	117	1007166	50.000
105) Chlorobenzene	(2)	10.899	112	1047425	51.452
107) 1,1,1,2-Tetrachloroethane	(2)	10.973	131	362286	52.253
108) Ethylbenzene	(2)	11.002	91	1802214	51.997
109) m+p-Xylene	(2)	11.105	106	703131	51.841
110) Xylene (Total)	(2)		106	1375867	104.736
111) o-Xylene	(2)	11.452	106	672736	52.895
112) Styrene	(2)	11.462	104	1120150	53.718
113) Bromoform	(2)	11.616	173	281963	51.718
115) Isopropylbenzene	(2)	11.761	105	1667275	50.292
117) Cyclohexanone	(4)	11.828	55	243426	580.143
120) 1,1,2,2-Tetrachloroethane	(3)	11.989	83	529050	51.256
122) Bromobenzene	(3)	12.005	156	438780	52.003
123) 1,2,3-Trichloropropane	(3)	12.025	110	159133	52.645
124) trans-1,4-Dichloro-2-Butene	(3)	12.031	53	450180	130.475
125) n-Propylbenzene	(3)	12.086	120	483621	51.632
126) 2-Chlorotoluene	(3)	12.156	126	410773	51.455
127) 1,3,5-Trimethylbenzene	(3)	12.217	120	702603	52.094
128) 4-Chlorotoluene	(3)	12.240	126	429954	51.755
130) tert-Butylbenzene	(3)	12.472	134	320812	52.659
131) Pentachloroethane	(3)	12.491	167	282526	54.566
132) 1,2,4-Trimethylbenzene	(3)	12.504	105	1465459	52.291
134) sec-Butylbenzene	(3)	12.635	134	366041	52.010
135) 1,3-Dichlorobenzene	(3)	12.719	146	808901	51.723
136) p-Isopropyltoluene	(3)	12.735	134	415831	52.548
137) *1,4-Dichlorobenzene-d4	(3)	12.767	152	549741	50.000
138) 1,4-Dichlorobenzene	(3)	12.783	146	856754	51.739
139) 1,2,3-Trimethylbenzene	(3)	12.819	120	667934	53.397
140) Benzyl Chloride	(3)	12.877	91	1089722	53.300

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/1c08i03.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 17:53 Analyst ID: MAZ02012

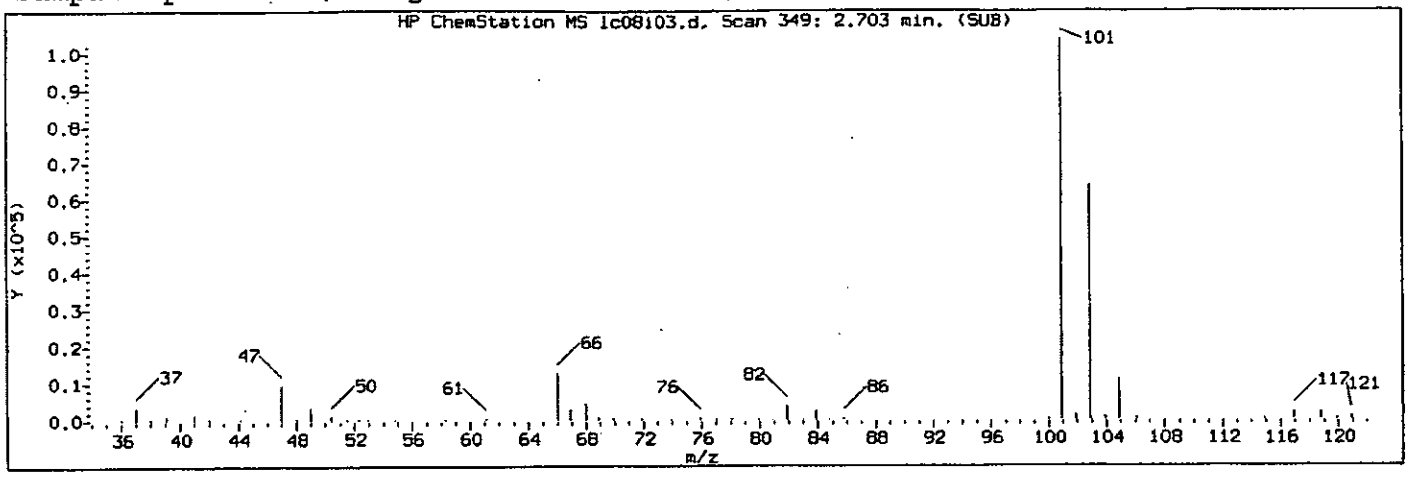
Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:29 maz02012

Sample Name: VSTD050 Lab Sample ID: VSTD050

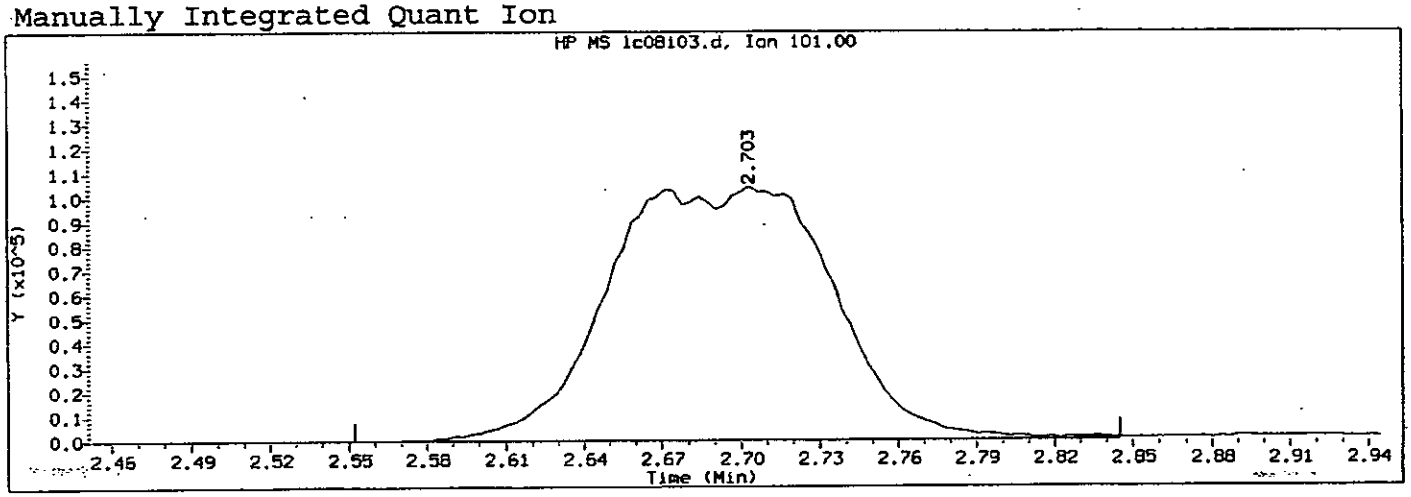
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
141) 1,3-Diethylbenzene	(3)	12.947	119	922696	53.306
142) 1,4-Diethylbenzene	(3)	13.012	119	914098	53.461
143) n-Butylbenzene	(3)	13.028	92	746187	52.048
144) 1,2-Dichlorobenzene	(3)	13.057	146	777095	50.724
145) 1,2-Diethylbenzene	(3)	13.098	119	753218	52.927
146) 1,2-Dibromo-3-Chloropropane	(3)	13.590	75	114694	51.447
147) 1,2,4-Trichlorobenzene	(3)	14.153	180	602003	51.397
148) Hexachlorobutadiene	(3)	14.256	225	320428	50.620
149) Naphthalene	(3)	14.320	128	1835321	51.911
150) 1,2,3-Trichlorobenzene	(3)	14.475	180	594335	51.004
152) 2-Methylnaphthalene	(3)	15.053	142	1060581	52.875
54)$Dibromofluoromethane	(1)	6.375	113	370716	52.832
55)$Dibromofluoromethane(mz111)	(1)	6.372	111	379432	52.797
64)$1,2-Dichloroethane-d4	(1)	6.832	102	87805	51.819
65)$1,2-Dichloroethane-d4(mz65)	(1)	6.832	65	453356	52.230
66)$1,2-Dichloroethane-d4(mz104)	(1)	6.838	104	56231	52.247
91)$Toluene-d8	(2)	9.375	98	1488080	53.004
90)$Toluene-d8(mz100)	(2)	9.375	100	952298	52.969
119)$4-Bromofluorobenzene	(2)	11.880	95	506063	50.814
118)$4-Bromofluorobenzene(mz174)	(2)	11.883	174	444922	51.121

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/1c08i03.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 17:53 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 18:12
Date, time and analyst ID of latest file update: 12-Oct-2009 18:29 maz02012

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 11
Compound Name : Trichlorofluoromethane
Scan Number : 349
Retention Time (minutes): 2.703
Quant Ion : 101
Area (flag) : 619022 M
Concentration (ug/L) : 51.5703
Integration start scan : 301 Integration stop scan: 392
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

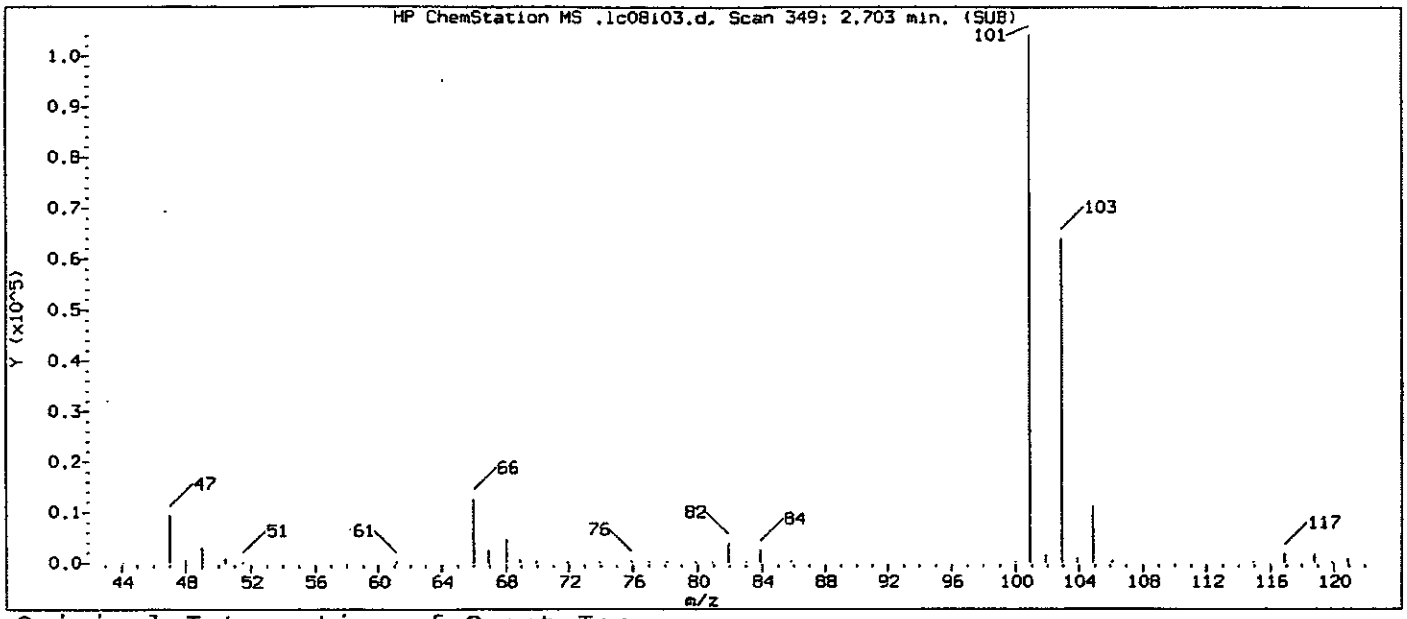
Analyst responsible for change: MS 10/12/09

GC/MS audit/management approval: 10-12-09

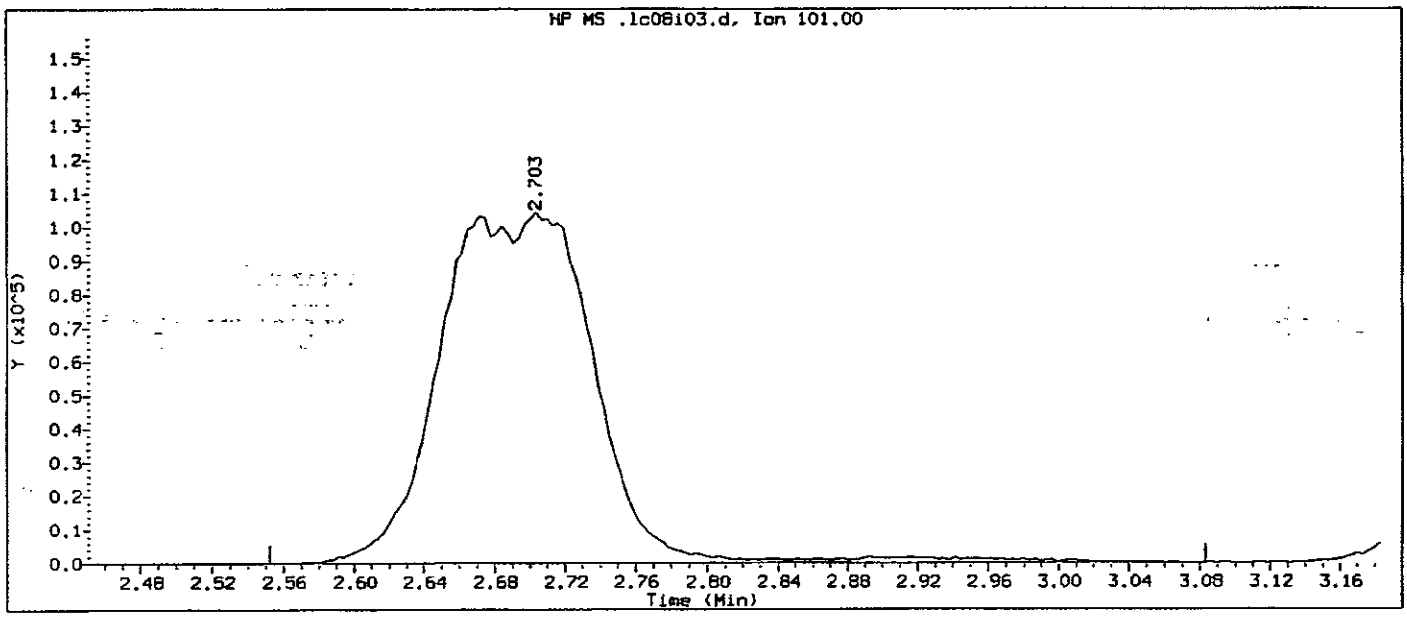
PTL03 0348

Manual Integration Report for data file /chem/HP09915.i/09oct08i.b/1c08i03.d, generated on 10/12/2009 at 18:29

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08i03.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 17:53 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 18:12
Date, time and analyst ID of latest file update: 08-Oct-2009 18:12 Automation

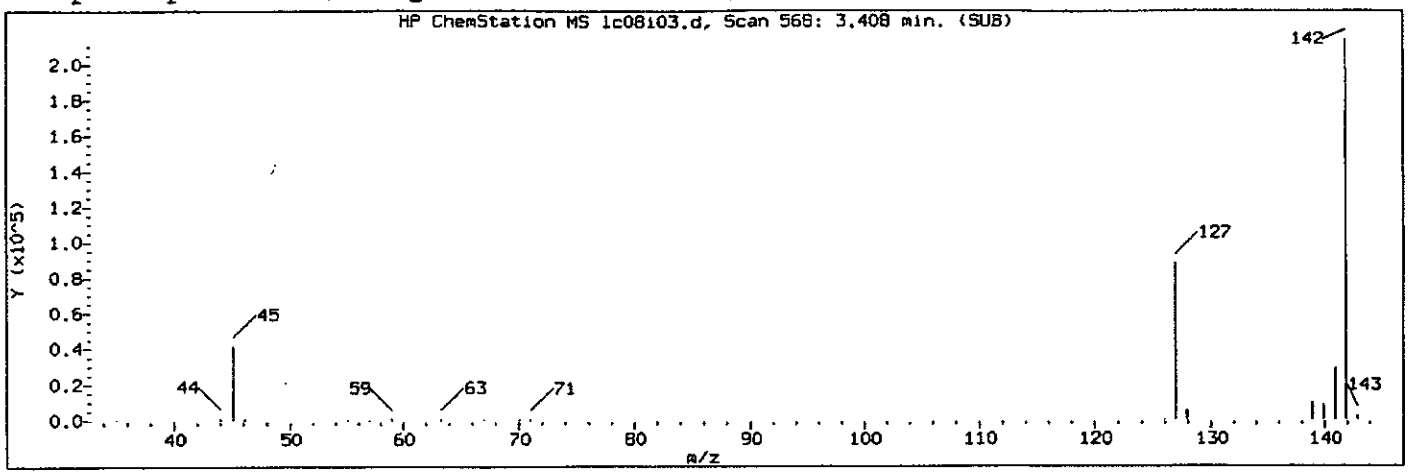
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 11
Compound Name	: Trichlorofluoromethane
Scan Number	: 349
Retention Time (minutes)	: 2.703
Quant Ion	: 101
Area	: 631130
Concentration (ug/L)	: 52.6021
Integration start scan	: 301 Integration stop scan: 466
Y at integration start	: 0 Y at integration end: 0

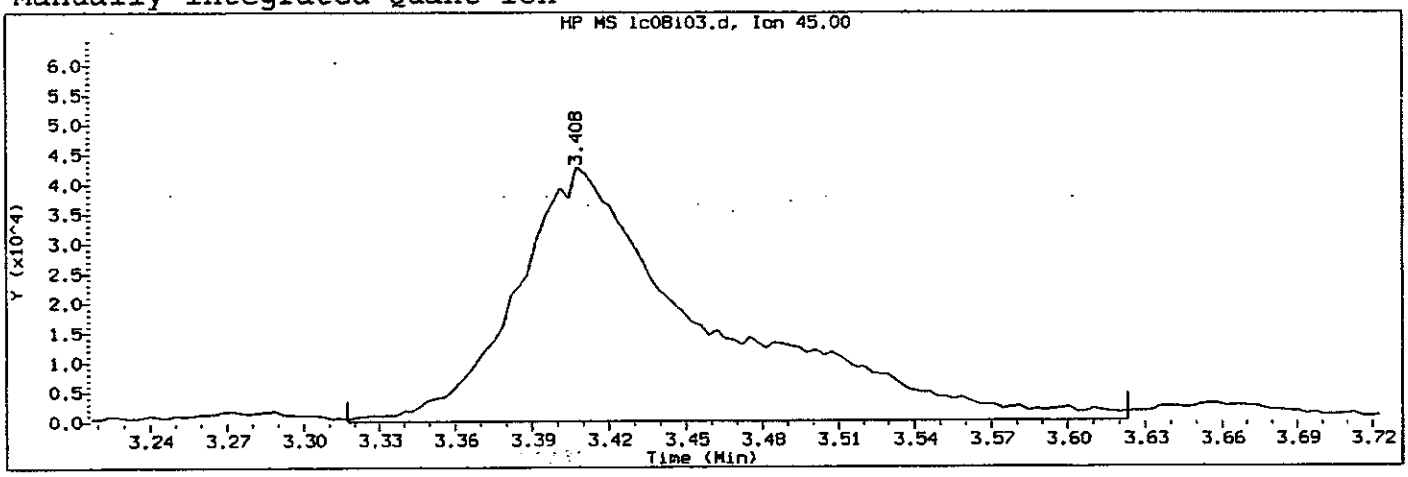
PTL03 8341

Original Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08i03.d, generated on 10/12/2009 at 18:29

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/1c08i03.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 17:53 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 18:12
Date, time and analyst ID of latest file update: 12-Oct-2009 18:29 maz02012

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 22
Compound Name : 2-Propanol
Scan Number : 568
Retention Time (minutes): 3.408
Quant Ion : 45
Area (flag) : 222829 M
Concentration (ug/L) : 244.3684
Integration start scan : 539 Integration stop scan: 634
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

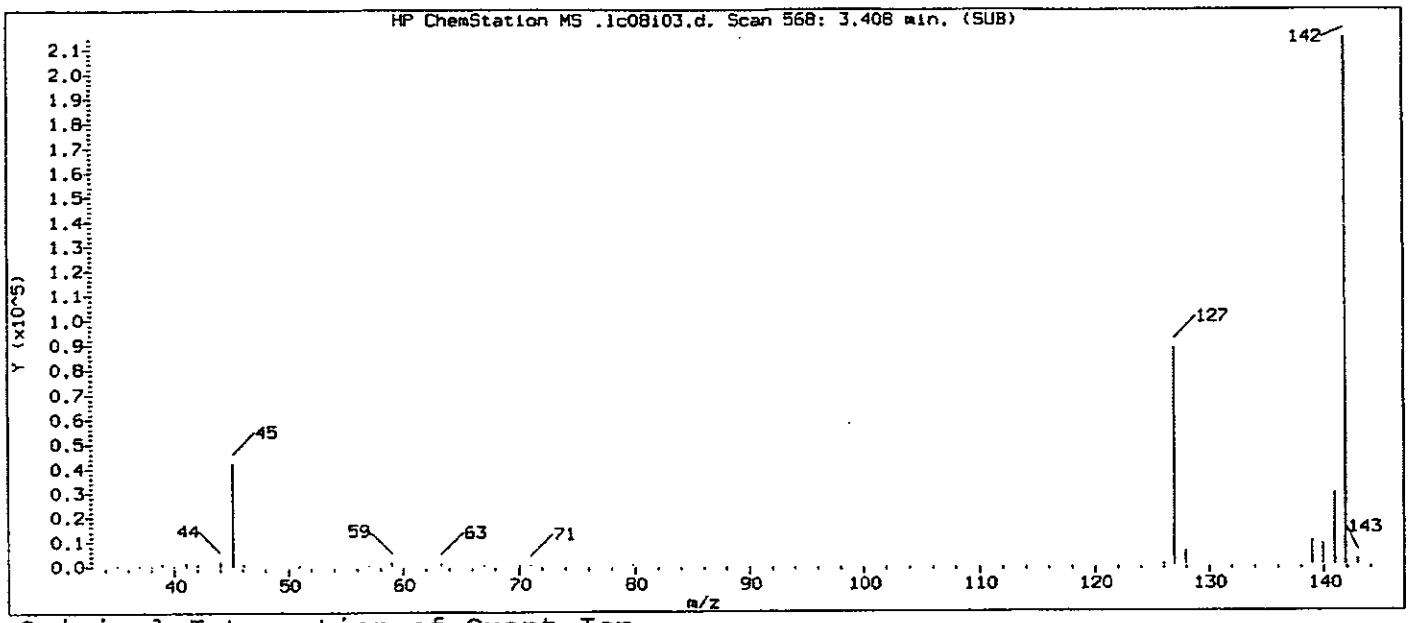
Analyst responsible for change: MS Zon 10/12/09

GC/MS audit/management approval: [signature] 10-12-09

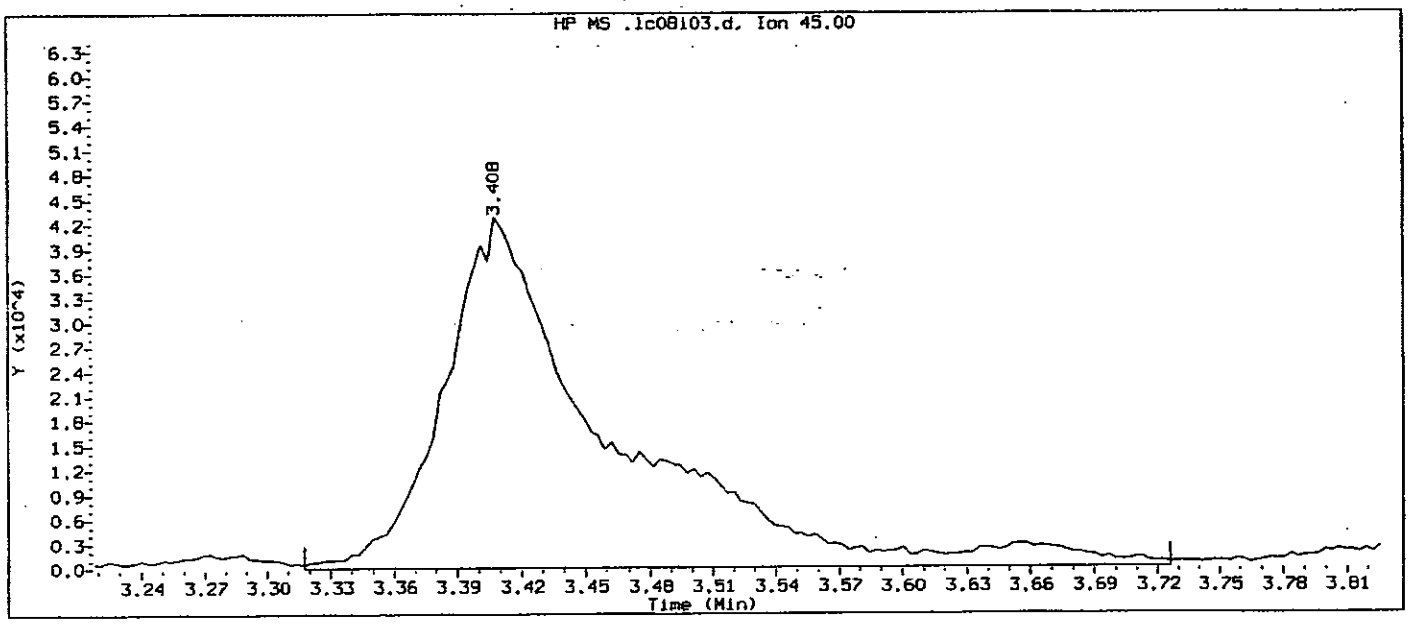
PTL03 0342

Manual Integration Report for data file /chem/HP09915.i/09oct08i.b/1c08i03.d, generated on 10/12/2009 at 18:29

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08i03.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 17:53 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 18:12
Date, time and analyst ID of latest file update: 08-Oct-2009 18:12 Automation

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 22
Compound Name	: 2-Propanol
Scan Number	: 568
Retention Time (minutes)	: 3.408
Quant Ion	: 45
Area	: 233650
Concentration (ug/L)	: 249.6667
Integration start scan	: 539 Integration stop scan: 666
Y at integration start	: 0 Y at integration end: 0

PTL03 0343

Original Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08i03.d, generated on 10/12/2009 at 18:29

Data File: /chem/HP09915.i/09oct08i.b/lc08i04.d
Date : 08-OCT-2009 18:15
Client ID: VSTD020
Sample Info: VSTD020;VSTD020;1;1;;;
Purge Volume: 5.0
Column phase: DB-624

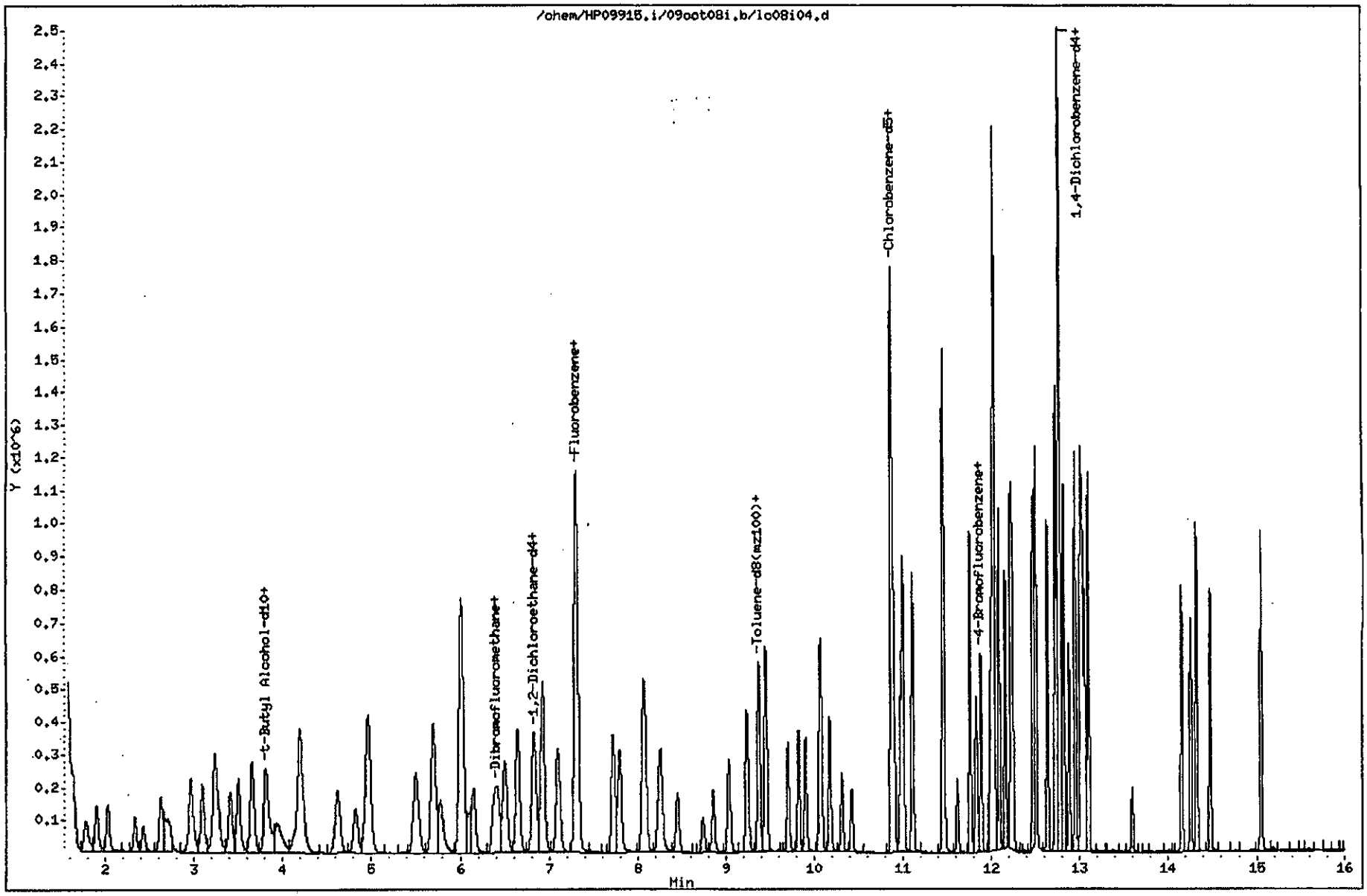
Instrument: HP09915.i

Operator: HAZ02012
Column diameter: 0.25

MA/2012
1-17/01

PTI 33 8344

Page 1



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/lc08i04.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 18:15 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:33 maz02012

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.778	85	223314	20.395
3) Chloromethane	(1)	1.903	50	193584	20.476
4) Vinyl Chloride	(1)	2.025	62	175351	20.345
8) Bromomethane	(1)	2.334	94	95848	18.645
9) Chloroethane	(1)	2.424	64	91662	19.261
10) Dichlorofluoromethane	(1)	2.623	67	240671	20.732
11) Trichlorofluoromethane	(1)	2.710	101	235027M	20.401
15) Ethyl Ether	(1)	2.961	59	83546	20.004
16) Freon 123a	(1)	2.964	67	139569	20.326
18) Acrolein	(4)	3.093	56	273300	191.170
19) 1,1-Dichloroethene	(1)	3.228	96	101638	17.814
20) Freon 113	(1)	3.260	101	118058	17.673
21) Acetone	(1)	3.257	43	105800	34.994
22) 2-Propanol	(4)	3.421	45	176234	196.593
23) Methyl Iodide	(1)	3.408	142	230299	18.737
24) Carbon Disulfide	(1)	3.501	76	440236	18.470
27) Allyl Chloride	(1)	3.652	41	238828	19.350
28) Methyl Acetate	(1)	3.671	43	161586	19.553
29) Methylene Chloride	(1)	3.810	84	143307	18.441
30) *t-Butyl Alcohol-d10	(4)	3.832	65	275746	250.000
31) t-Butyl Alcohol	(4)	3.942	59	251841M	193.010
32) Acrylonitrile	(1)	4.122	53	71825	18.109
33) trans-1,2-Dichloroethene	(1)	4.196	96	131782	18.716
34) Methyl Tertiary Butyl Ether	(1)	4.205	73	432430	18.894
35) n-Hexane	(1)	4.626	57	193789	17.629
42) 1,2-Dichloroethene (total)	(1)		96	268040	37.048
36) 1,1-Dichloroethane	(1)	4.819	63	242198	18.655
40) di-Isopropyl Ether	(1)	4.954	45	490780	18.875
41) 2-Chloro-1,3-Butadiene	(1)	4.974	53	211519	18.204
43) Ethyl t-Butyl Ether	(1)	5.501	59	421619	18.875
44) cis-1,2-Dichloroethene	(1)	5.691	96	136258	18.333
45) 2-Butanone	(1)	5.707	43	196406	35.757
46) 2,2-Dichloropropane	(1)	5.694	77	181046	18.289
47) Propionitrile	(4)	5.777	54	315629	190.145

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/1c08i04.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 18:15 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:33 maz02012

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
50) Methacrylonitrile	(1)	6.006	67	394412	95.237
51) Bromochloromethane	(1)	6.028	128	70422	19.492
52) Tetrahydrofuran	(4)	6.096	71	44196	35.660
53) Chloroform	(1)	6.154	83	213481	18.245
57) 1,1,1-Trichloroethane	(1)	6.417	97	210274	18.410
60) Cyclohexane	(1)	6.504	56	234398	17.370
59) Cyclohexane (mz 84)	(1)	6.501	84	187056	17.383
58) Cyclohexane (mz 69)	(1)	6.507	69	68162	17.448
61) 1,1-Dichloropropene	(1)	6.642	75	177556	18.070
62) Carbon Tetrachloride	(1)	6.655	117	157972	17.650
63) Isobutyl Alcohol	(4)	6.826	41	224431	469.406
67) Benzene	(1)	6.929	78	526874	18.244
68) 1,2-Dichloroethane	(1)	6.938	62	188316	18.630
69) 1,2-Dichloroethane (mz 98)	(1)	6.935	98	16034	18.864
71) t-Amyl Methyl Ether	(1)	7.099	73	385712	18.574
72) *Fluorobenzene	(1)	7.308	96	1315638	50.000
74) n-Heptane	(1)	7.324	43	190017	16.883
75) n-Butanol	(4)	7.720	56	353922	945.939
76) Trichloroethene	(1)	7.800	95	129066	18.264
77) Methylcyclohexane	(1)	8.067	83	223104	19.117
78) Methylcyclohexane (mz98)	(1)	8.064	98	98346	18.840
79) 1,2-Dichloropropane	(1)	8.086	63	141568	18.124
80) Dibromomethane	(1)	8.237	93	87155	18.689
81) Methyl Methacrylate	(1)	8.266	69	123192	18.562
82) 1,4-Dioxane	(4)	8.276	88	51163	448.549
84) Bromodichloromethane	(1)	8.449	83	155568	18.232
85) 2-Nitropropane	(1)	8.742	41	87969	34.530
86) 2-Chloroethyl Vinyl Ether	(1)	8.854	63	106450	18.647
87) cis-1,3-Dichloropropene	(1)	9.035	75	207945	18.257
89) 4-Methyl-2-Pentanone	(1)	9.240	43	407343	36.257
93) Toluene	(2)	9.453	92	320890	18.639
94) trans-1,3-Dichloropropene	(2)	9.707	75	199140	18.310
95) Ethyl Methacrylate	(2)	9.826	69	205167	18.707
96) 1,1,2-Trichloroethane	(2)	9.903	97	119751	18.686

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/lc08i04.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 18:15 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:33 maz02012

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
97) Tetrachloroethene	(2)	10.063	166	137923	18.115
98) 1,3-Dichloropropane	(2)	10.080	76	220790	18.684
100) 2-Hexanone	(2)	10.173	43	303451	35.988
102) Dibromochloromethane	(2)	10.311	129	129996	18.126
103) 1,2-Dibromoethane	(2)	10.424	107	134139	18.642
104) *Chlorobenzene-d5	(2)	10.874	117	967609	50.000
105) Chlorobenzene	(2)	10.899	112	360040	18.409
107) 1,1,1,2-Tetrachloroethane	(2)	10.973	131	122346	18.367
108) Ethylbenzene	(2)	11.002	91	608670	18.279
109) m+p-Xylene	(2)	11.108	106	239246	18.360
110) Xylene (Total)	(2)		106	471785	37.392
111) o-Xylene	(2)	11.452	106	232539	19.031
112) Styrene	(2)	11.462	104	384601	19.198
113) Bromoform	(2)	11.613	173	95787	18.288
115) Isopropylbenzene	(2)	11.758	105	584528	18.353
117) Cyclohexanone	(4)	11.829	55	193454	468.976
120) 1,1,2,2-Tetrachloroethane	(3)	11.986	83	196669	19.013
122) Bromobenzene	(3)	12.005	156	156278	18.482
123) 1,2,3-Trichloropropane	(3)	12.025	110	57887	19.109
124) trans-1,4-Dichloro-2-Butene	(3)	12.031	53	327831	94.809
125) n-Propylbenzene	(3)	12.086	120	168355	17.935
126) 2-Chlorotoluene	(3)	12.157	126	147340	18.416
127) 1,3,5-Trimethylbenzene	(3)	12.221	120	246179	18.213
128) 4-Chlorotoluene	(3)	12.240	126	153651	18.455
130) tert-Butylbenzene	(3)	12.472	134	112029	18.349
131) Pentachloroethane	(3)	12.488	167	100080	19.287
132) 1,2,4-Trimethylbenzene	(3)	12.504	105	514001	18.301
134) sec-Butylbenzene	(3)	12.632	134	124313	17.625
135) 1,3-Dichlorobenzene	(3)	12.719	146	292192	18.643
136) p-Isopropyltoluene	(3)	12.735	134	144990	18.282
137) *1,4-Dichlorobenzene-d4	(3)	12.768	152	550934	50.000
138) 1,4-Dichlorobenzene	(3)	12.784	146	308077	18.564
139) 1,2,3-Trimethylbenzene	(3)	12.819	120	245894	19.615
140) Benzyl Chloride	(3)	12.877	91	374010	18.254

* = Compound is an internal standard.

PTL83 #347

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/lc08i04.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 18:15 Analyst ID: MAZ02012

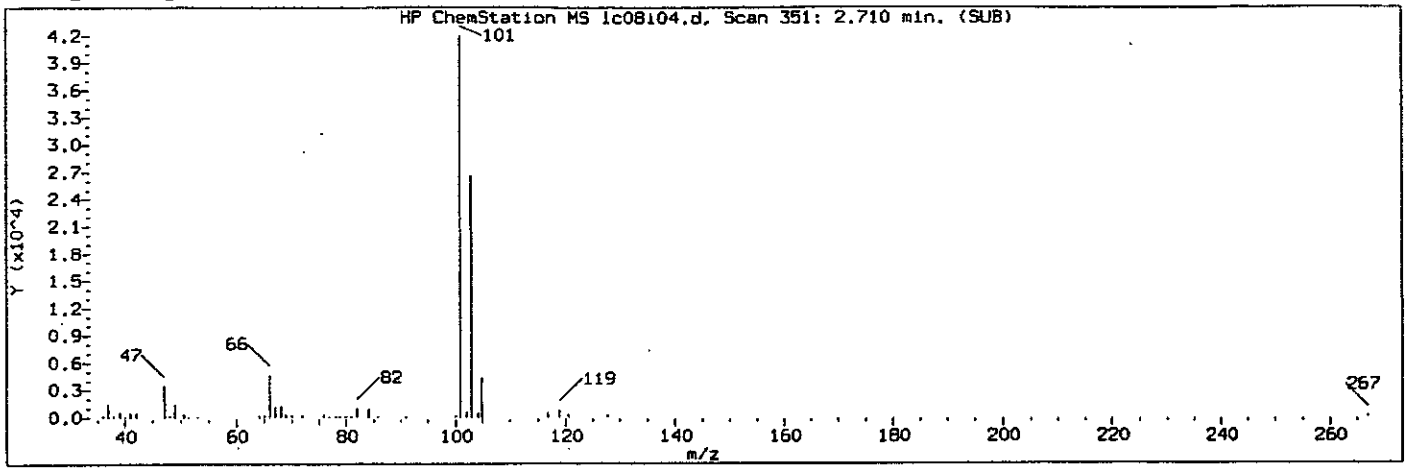
Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:33 maz02012

Sample Name: VSTD020 Lab Sample ID: VSTD020

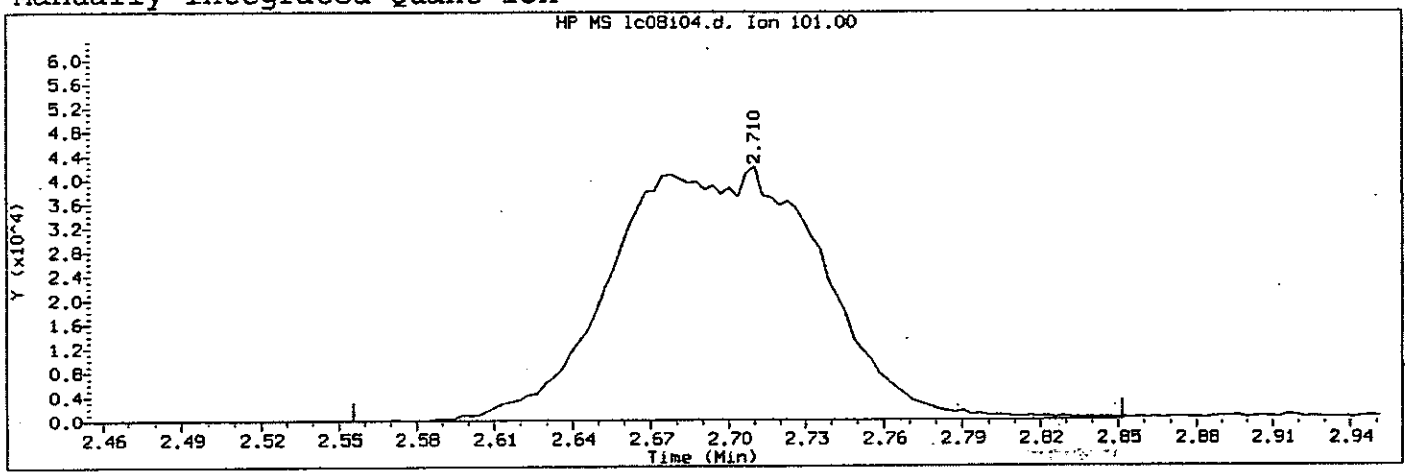
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
141) 1,3-Diethylbenzene	(3)	12.948	119	339494	19.571
142) 1,4-Diethylbenzene	(3)	13.009	119	333753	19.477
143) n-Butylbenzene	(3)	13.028	92	260391	18.123
144) 1,2-Dichlorobenzene	(3)	13.057	146	284652	18.540
145) 1,2-Diethylbenzene	(3)	13.095	119	277065	19.427
146) 1,2-Dibromo-3-Chloropropane	(3)	13.594	75	40939	18.324
147) 1,2,4-Trichlorobenzene	(3)	14.153	180	218419	18.608
148) Hexachlorobutadiene	(3)	14.256	225	117193	18.473
149) Naphthalene	(3)	14.321	128	664353	18.750
150) 1,2,3-Trichlorobenzene	(3)	14.475	180	219510	18.797
152) 2-Methylnaphthalene	(3)	15.054	142	404879	20.142
54)$Dibromofluoromethane	(1)	6.372	113	121112	17.984
55)$Dibromofluoromethane(mz111)	(1)	6.375	111	123763	17.943
64)$1,2-Dichloroethane-d4	(1)	6.842	102	29241	17.980
65)$1,2-Dichloroethane-d4(mz65)	(1)	6.838	65	151048	18.131
66)$1,2-Dichloroethane-d4(mz104)	(1)	6.835	104	18559	17.967
91)$Toluene-d8	(2)	9.375	98	490599	18.189
90)$Toluene-d8(mz100)	(2)	9.375	100	314867	18.230
119)$4-Bromofluorobenzene	(2)	11.883	95	177375	18.538
118)$4-Bromofluorobenzene(mz174)	(2)	11.883	174	156657	18.735

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08i04.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 18:15 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 18:34
Date, time and analyst ID of latest file update: 12-Oct-2009 18:33 maz02012

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 11
Compound Name : Trichlorofluoromethane
Scan Number : 351
Retention Time (minutes): 2.710
Quant Ion : 101
Area (flag) : 235027 M
Concentration (ug/L) : 20.4007
Integration start scan : 302 Integration stop scan: 394
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

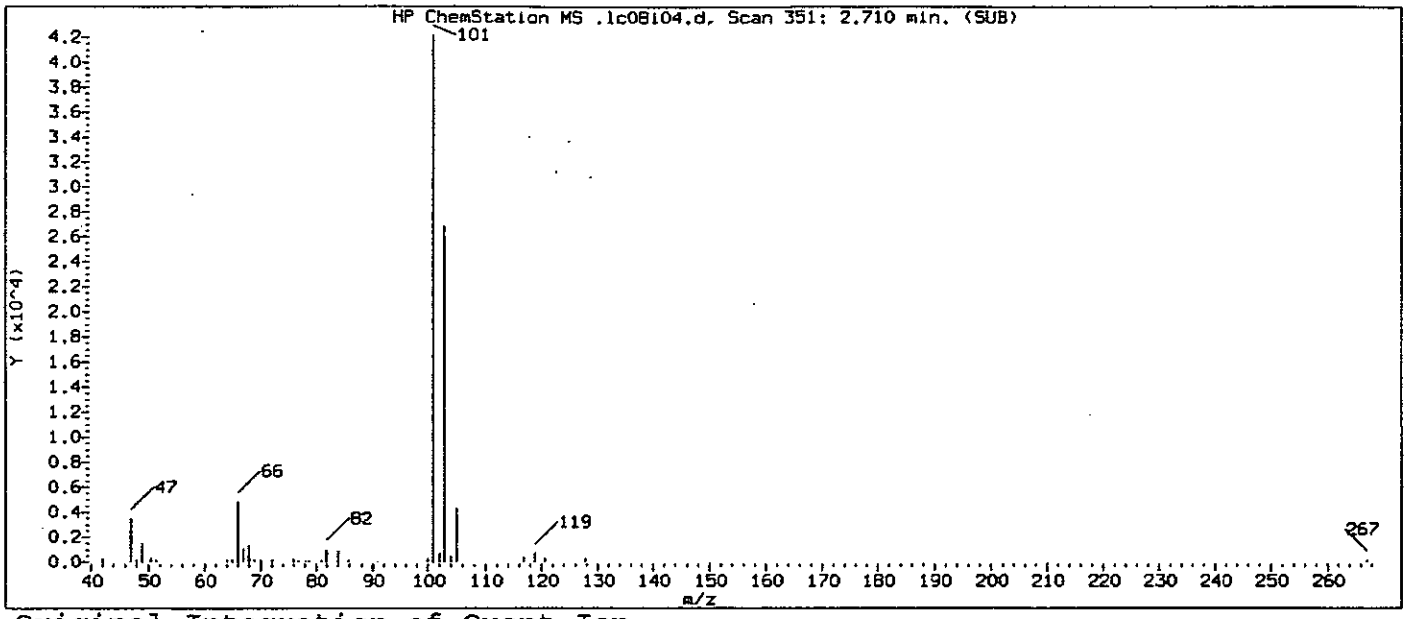
Analyst responsible for change: Mo Zon 10/12/09

GC/MS audit/management approval: [signature] 10/12/09

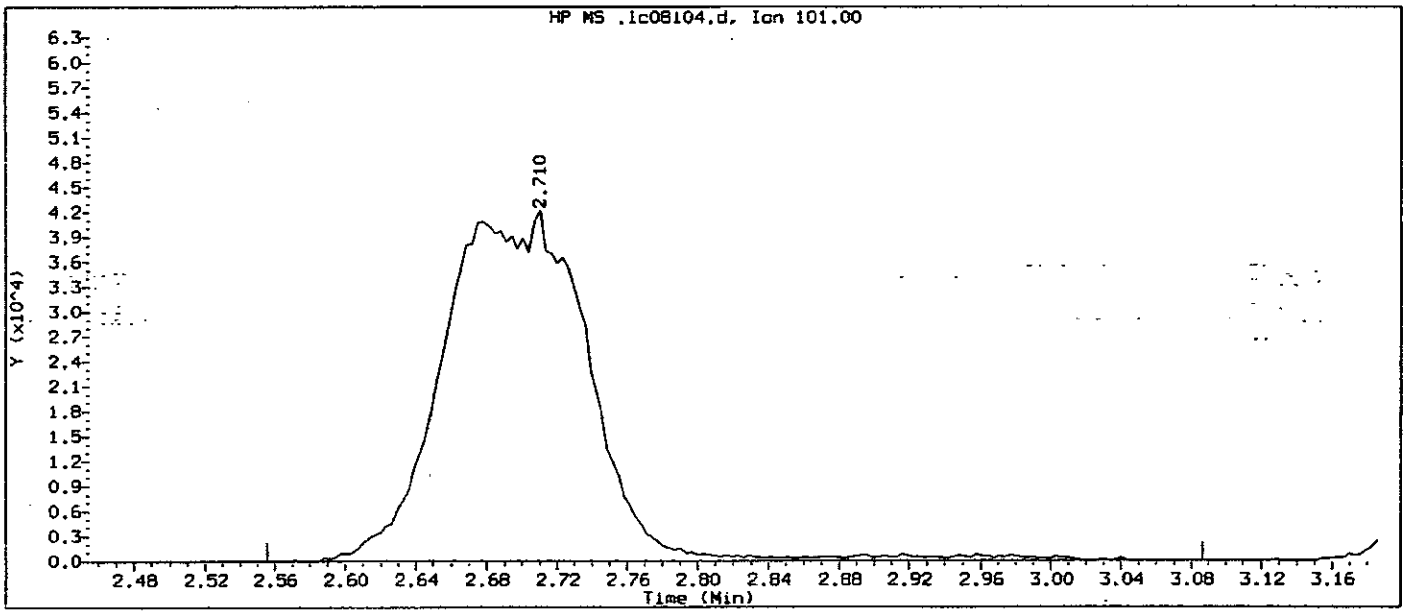
PTL03 0349

Manual Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08i04.d, generated on 10/12/2009 at 18:33

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08i04.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 18:15 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 18:34
Date, time and analyst ID of latest file update: 08-Oct-2009 18:34 Automation

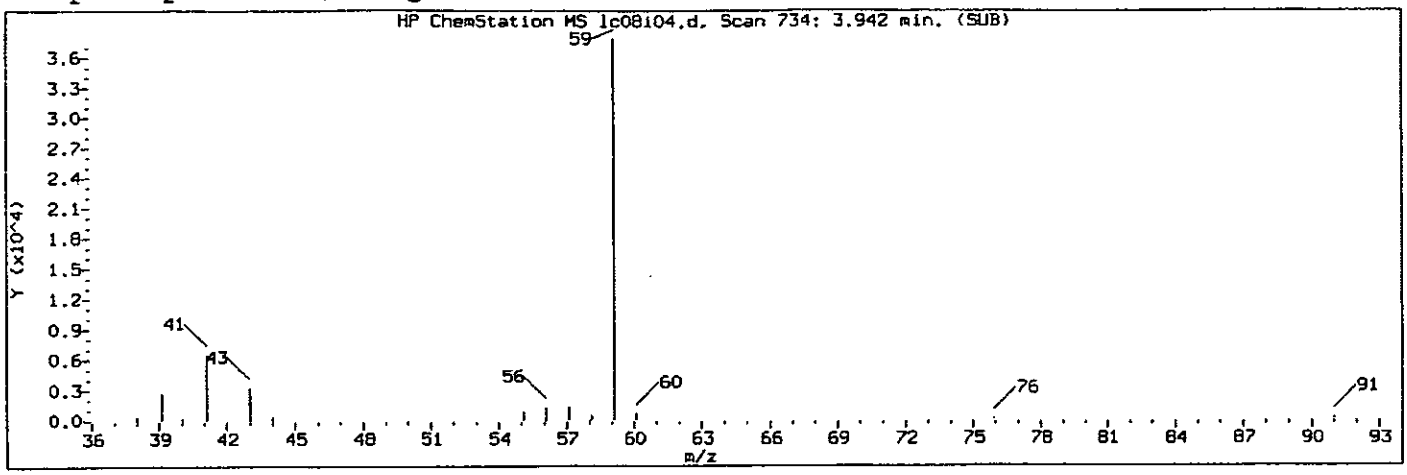
Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number	: 11
Compound Name	: Trichlorofluoromethane
Scan Number	: 351
Retention Time (minutes)	: 2.710
Quant Ion	: 101
Area	: 239677
Concentration (ug/L)	: 20.6040
Integration start scan	: 302 Integration stop scan: 467
Y at integration start	: 0 Y at integration end: 0

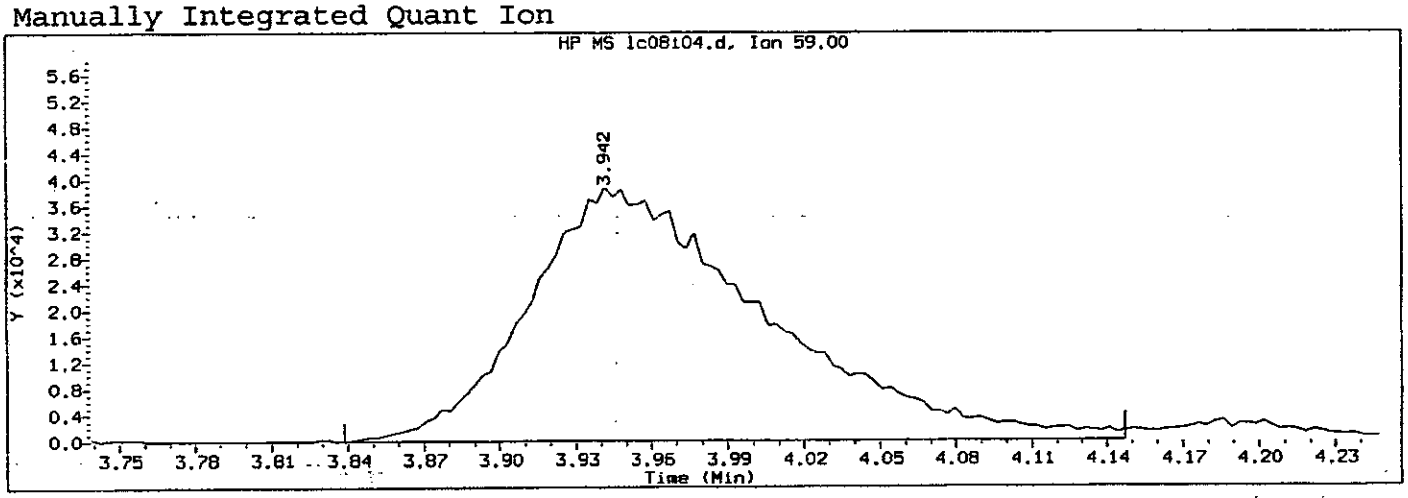
PTL03 0350

Original Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08i04.d, generated on 10/12/2009 at 18:33

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08i04.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 18:15 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 18:34
Date, time and analyst ID of latest file update: 12-Oct-2009 18:33 maz02012

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 31
Compound Name : t-Butyl Alcohol
Scan Number : 734
Retention Time (minutes): 3.942
Quant Ion : 59
Area (flag) : 251841 M
Concentration (ug/L) : 193.0097
Integration start scan : 701 Integration stop scan: 797
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

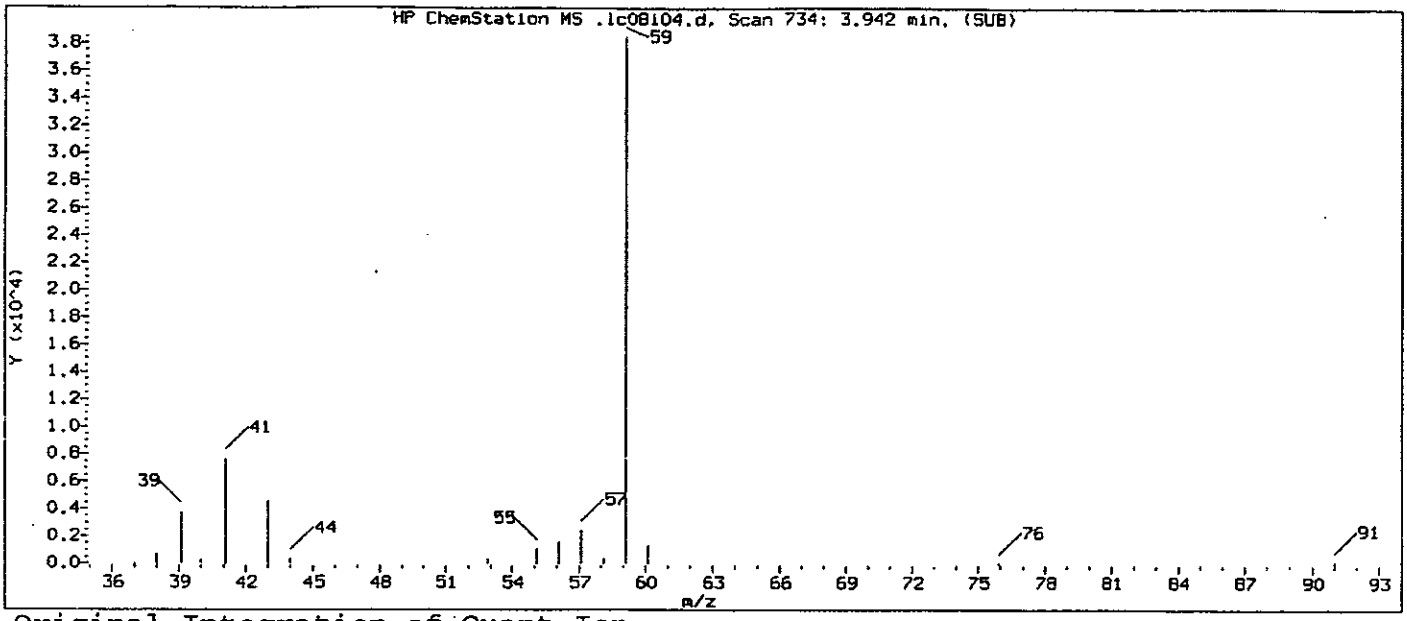
Analyst responsible for change: MAZ 10/12/09

GC/MS audit/management approval: 10-12-09

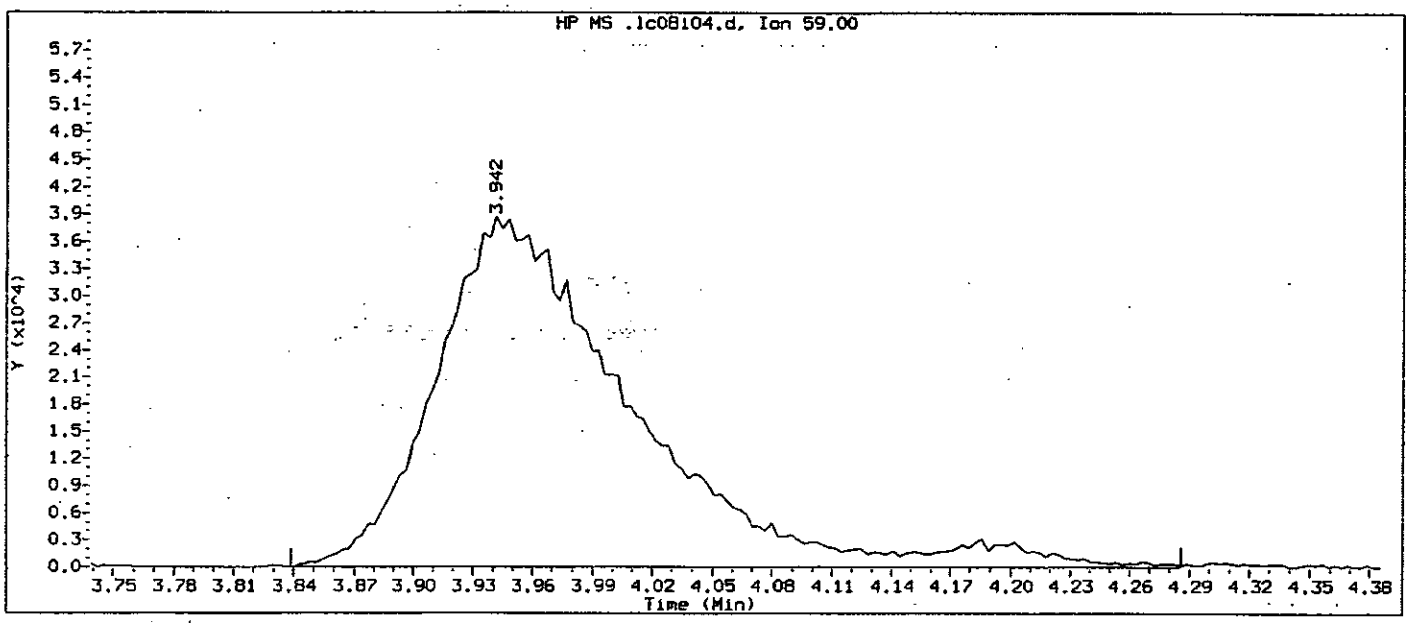
PTL83 0351

Manual Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08i04.d, generated on 10/12/2009 at 18:33

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08i04.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 18:15 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 18:34
Date, time and analyst ID of latest file update: 08-Oct-2009 18:34 Automation

Sample Name: VSTD020 Lab Sample ID: VSTD020

Compound Number : 31
Compound Name : t-Butyl Alcohol
Scan Number : 734
Retention Time (minutes): 3.942
Quant Ion : 59
Area : 262703
Concentration (ug/L) : 199.5974
Integration start scan : 701 Integration stop scan: 840
Y at integration start : 0 Y at integration end: 0

PTL03 0352

Original Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08i04.d, generated on 10/12/2009 at 18:33

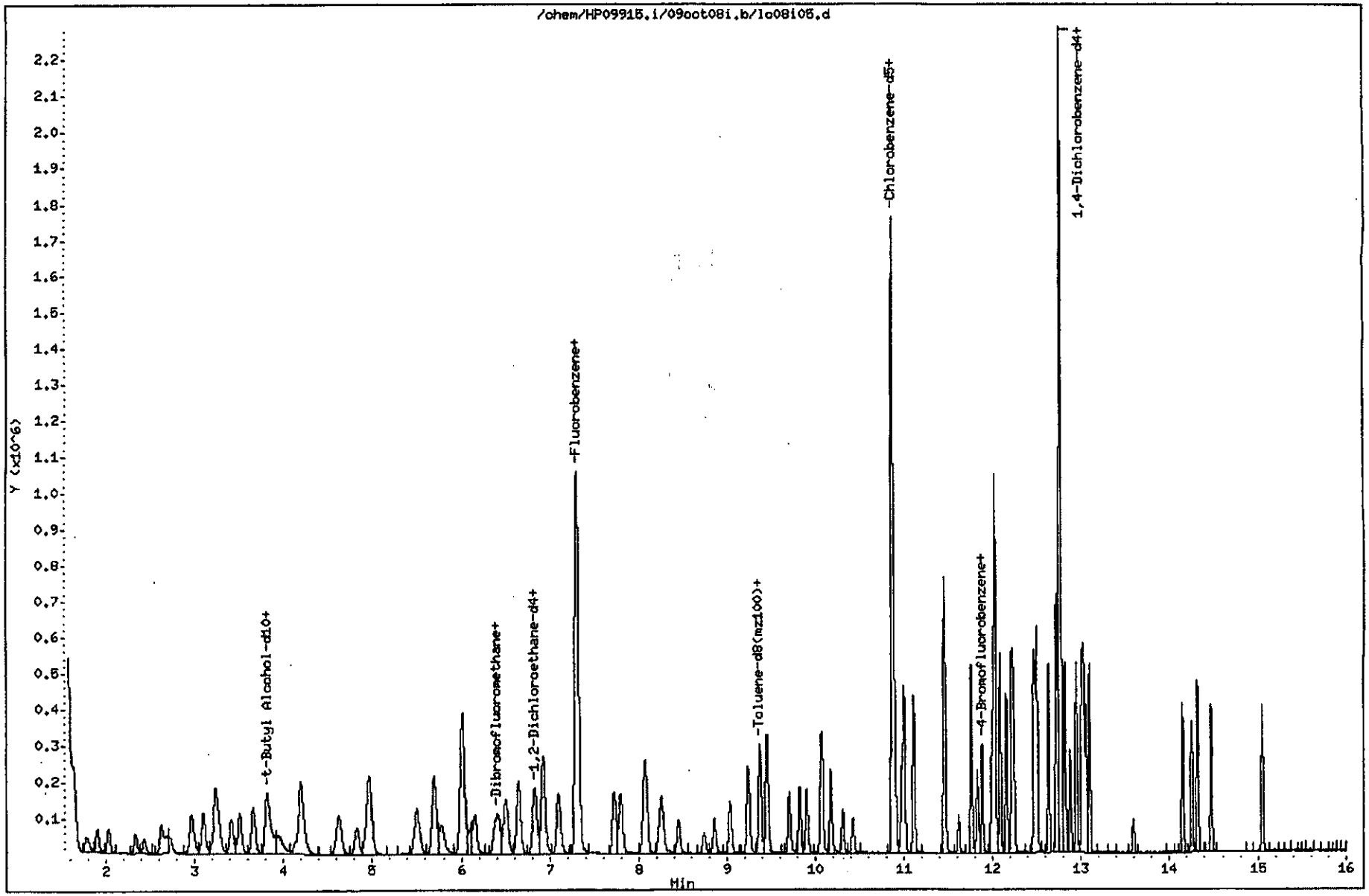
PTI03 0353

Data File: /chem/HP09915.i/09oct08i.b/lc08i05.d
Date : 08-OCT-2009 18:37
Client ID: VSTD010
Sample Info: VSTD010;VSTD010;1;1;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: MAZ02012
Column diameter: 0.25

MAZ/2012
10/26/11



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/1c08i05.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 18:37 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:33 maz02012

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.777	85	106078	9.791
3) Chloromethane	(1)	1.903	50	93015	9.943
4) Vinyl Chloride	(1)	2.025	62	84160	9.868
8) Bromomethane	(1)	2.337	94	48589	9.414
9) Chloroethane	(1)	2.427	64	44843	9.338
10) Dichlorofluoromethane	(1)	2.623	67	113140	9.850
11) Trichlorofluoromethane	(1)	2.684	101	112312M	9.852
15) Ethyl Ether	(1)	2.964	59	40317	9.756
16) Freon 123a	(1)	2.973	67	64983	9.564
18) Acrolein	(4)	3.099	56	152419	110.387
19) 1,1-Dichloroethene	(1)	3.231	96	63477	11.243
20) Freon 113	(1)	3.260	101	70872	10.722
21) Acetone	(1)	3.266	43	65677	21.954
22) 2-Propanol	(4)	3.430	45	87368	100.909
23) Methyl Iodide	(1)	3.411	142	121584	9.997
24) Carbon Disulfide	(1)	3.504	76	234032	9.923
27) Allyl Chloride	(1)	3.652	41	114105	9.343
28) Methyl Acetate	(1)	3.665	43	73405	8.977
29) Methylene Chloride	(1)	3.809	84	79111	10.288
30)*t-Butyl Alcohol-d10	(4)	3.841	65	266324	250.000
31) t-Butyl Alcohol	(4)	3.957	59	123768M	99.025
32) Acrylonitrile	(1)	4.128	53	41004	10.448
33) trans-1,2-Dichloroethene	(1)	4.198	96	70777	10.158
34) Methyl Tertiary Butyl Ether	(1)	4.205	73	220921	9.755
35) n-Hexane	(1)	4.629	57	105130	9.665
42) 1,2-Dichloroethene (total)	(1)		96	144510	20.184
36) 1,1-Dichloroethane	(1)	4.825	63	129898	10.111
40) di-Isopropyl Ether	(1)	4.960	45	255609	9.935
41) 2-Chloro-1,3-Butadiene	(1)	4.980	53	110673	9.626
43) Ethyl t-Butyl Ether	(1)	5.497	59	214680	9.713
44) cis-1,2-Dichloroethene	(1)	5.697	96	73733	10.026
45) 2-Butanone	(1)	5.710	43	108691	19.998
46) 2,2-Dichloropropane	(1)	5.700	77	94282	9.626
47) Propionitrile	(4)	5.780	54	157293	98.111

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/lc08i05.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 18:37 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:33 maz02012

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
50) Methacrylonitrile	(1)	6.009	67	198732	48.496
51) Bromochloromethane	(1)	6.028	128	33412	9.346
52) Tetrahydrofuran	(4)	6.102	71	25590	21.378
53) Chloroform	(1)	6.157	83	115646	9.988
57) 1,1,1-Trichloroethane	(1)	6.420	97	109770	9.712
60) Cyclohexane	(1)	6.504	56	126790	9.495
59) Cyclohexane (mz 84)	(1)	6.497	84	103508	9.721
58) Cyclohexane (mz 69)	(1)	6.504	69	37021	9.577
61) 1,1-Dichloropropene	(1)	6.642	75	94000	9.668
62) Carbon Tetrachloride	(1)	6.648	117	82000	9.259
63) Isobutyl Alcohol	(4)	6.825	41	109271	236.630
67) Benzene	(1)	6.925	78	282576	9.888
68) 1,2-Dichloroethane	(1)	6.938	62	96673	9.666
69) 1,2-Dichloroethane (mz 98)	(1)	6.944	98	8270	9.833
71) t-Amyl Methyl Ether	(1)	7.102	73	196317	9.554
72) *Fluorobenzene	(1)	7.308	96	1301819	50.000
74) n-Heptane	(1)	7.327	43	105426	9.466
75) n-Butanol	(4)	7.726	56	167236	462.790
76) Trichloroethene	(1)	7.803	95	69496	9.939
77) Methylcyclohexane	(1)	8.066	83	101528	8.792
78) Methylcyclohexane (mz98)	(1)	8.066	98	45290	8.768
79) 1,2-Dichloropropane	(1)	8.086	63	75876	9.817
80) Dibromomethane	(1)	8.234	93	43683	9.467
81) Methyl Methacrylate	(1)	8.266	69	59698	9.091
82) 1,4-Dioxane	(4)	8.272	88	26059	236.543
84) Bromodichloromethane	(1)	8.452	83	78152	9.256
85) 2-Nitropropane	(1)	8.742	41	47476	21.094
86) 2-Chloroethyl Vinyl Ether	(1)	8.857	63	54992	9.735
87) cis-1,3-Dichloropropene	(1)	9.037	75	105756	9.384
89) 4-Methyl-2-Pentanone	(1)	9.240	43	223419	20.097
93) Toluene	(2)	9.455	92	169729	10.083
94) trans-1,3-Dichloropropene	(2)	9.706	75	99908	9.395
95) Ethyl Methacrylate	(2)	9.822	69	101541	9.469
96) 1,1,2-Trichloroethane	(2)	9.902	97	61567	9.826

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/lc08i05.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 18:37 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:33 maz02012

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
97) Tetrachloroethene	(2)	10.066	166	74451	10.001
98) 1,3-Dichloropropane	(2)	10.082	76	112724	9.756
100) 2-Hexanone	(2)	10.176	43	164586	19.963
102) Dibromochloromethane	(2)	10.314	129	63769	9.094
103) 1,2-Dibromoethane	(2)	10.423	107	67222	9.555
104) *Chlorobenzene-d5	(2)	10.873	117	946082	50.000
105) Chlorobenzene	(2)	10.899	112	187793	9.820
107) 1,1,1,2-Tetrachloroethane	(2)	10.973	131	59992	9.211
108) Ethylbenzene	(2)	11.005	91	310360	9.533
109) m+p-Xylene	(2)	11.108	106	121683	9.551
110) Xylene (Total)	(2)		106	240152	19.467
111) o-Xylene	(2)	11.452	106	118469	9.916
112) Styrene	(2)	11.462	104	190840	9.743
113) Bromoform	(2)	11.616	173	44571	8.703
115) Isopropylbenzene	(2)	11.761	105	303854	9.757
117) Cyclohexanone	(4)	11.828	55	90971	228.336
120) 1,1,2,2-Tetrachloroethane	(3)	11.986	83	95608	9.832
122) Bromobenzene	(3)	12.005	156	81082	10.200
123) 1,2,3-Trichloropropane	(3)	12.024	110	28156	9.887
124) trans-1,4-Dichloro-2-Butene	(3)	12.031	53	153953	47.363
125) n-Propylbenzene	(3)	12.086	120	88873	10.071
126) 2-Chlorotoluene	(3)	12.156	126	74809	9.947
127) 1,3,5-Trimethylbenzene	(3)	12.217	120	128858	10.141
128) 4-Chlorotoluene	(3)	12.240	126	79575	10.167
130) tert-Butylbenzene	(3)	12.471	134	57238	9.973
131) Pentachloroethane	(3)	12.487	167	43736	8.966
132) 1,2,4-Trimethylbenzene	(3)	12.507	105	263213	9.969
134) sec-Butylbenzene	(3)	12.635	134	66200	9.984
135) 1,3-Dichlorobenzene	(3)	12.722	146	150594	10.221
136) p-Isopropyltoluene	(3)	12.735	134	75116	10.076
137) *1,4-Dichlorobenzene-d4	(3)	12.767	152	517909	50.000
138) 1,4-Dichlorobenzene	(3)	12.783	146	155953	9.997
139) 1,2,3-Trimethylbenzene	(3)	12.819	120	108385	9.197
140) Benzyl Chloride	(3)	12.876	91	170262	8.840

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/1c08i05.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 18:37 Analyst ID: MAZ02012

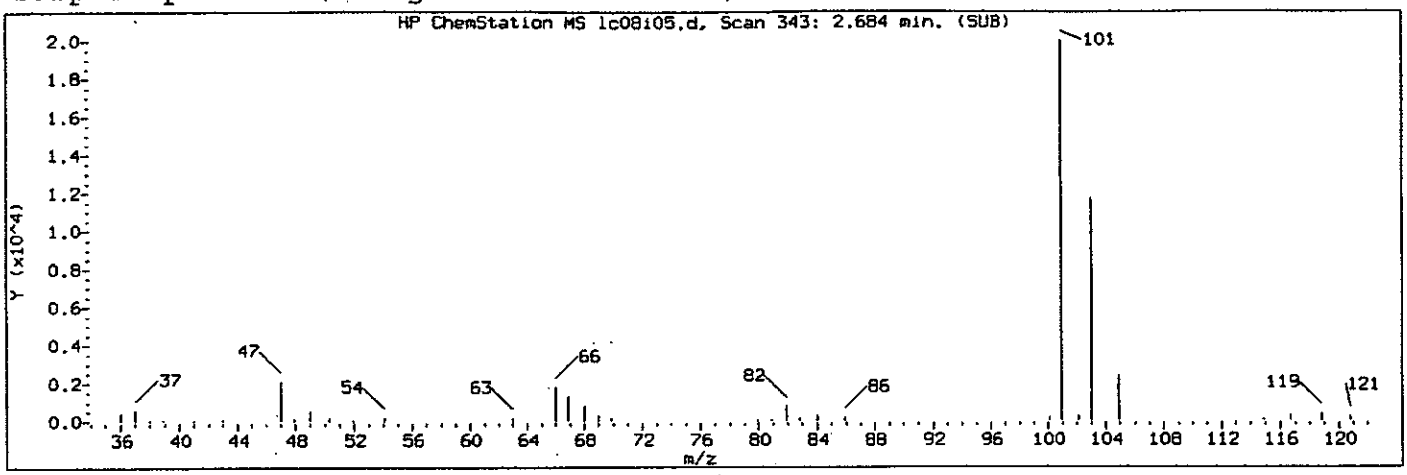
Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:33 maz02012

Sample Name: VSTD010 Lab Sample ID: VSTD010

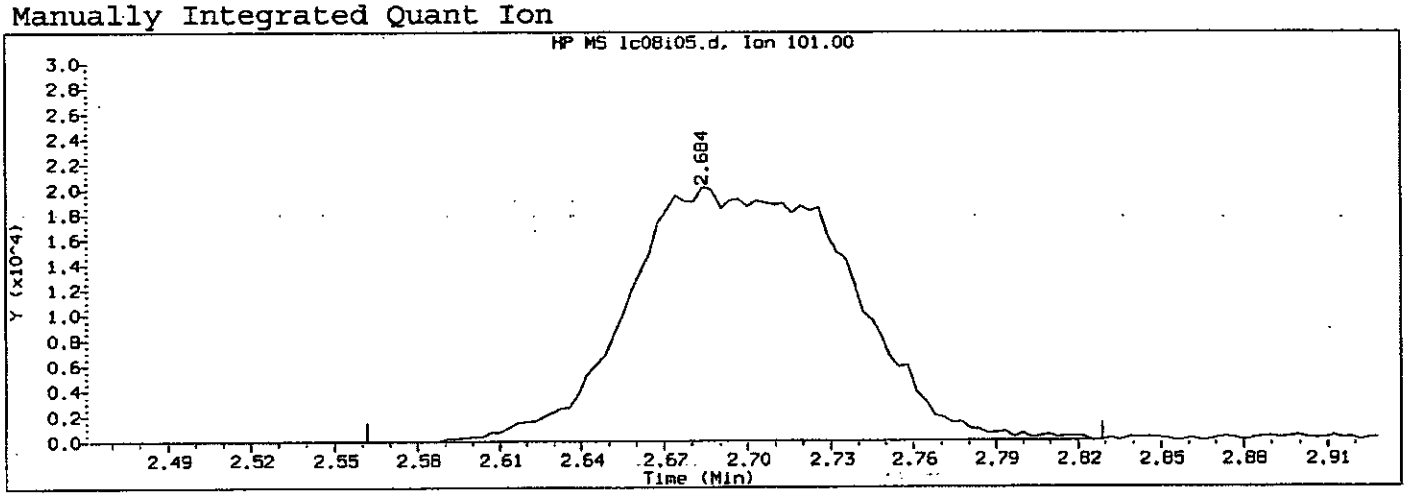
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
141) 1,3-Diethylbenzene	(3)	12.950	119	149314	9.156
142) 1,4-Diethylbenzene	(3)	13.008	119	149700	9.293
143) n-Butylbenzene	(3)	13.028	92	135926	10.064
144) 1,2-Dichlorobenzene	(3)	13.057	146	145417	10.075
145) 1,2-Diethylbenzene	(3)	13.095	119	124713	9.302
146) 1,2-Dibromo-3-Chloropropane	(3)	13.590	75	19123	9.105
147) 1,2,4-Trichlorobenzene	(3)	14.153	180	109056	9.883
148) Hexachlorobutadiene	(3)	14.256	225	59497	9.977
149) Naphthalene	(3)	14.320	128	320262	9.615
150) 1,2,3-Trichlorobenzene	(3)	14.478	180	108900	9.920
152) 2-Methylnaphthalene	(3)	15.053	142	167608	8.870
54) $Dibromofluoromethane	(1)	6.382	113	62213	9.336
55) $Dibromofluoromethane(mz111)	(1)	6.378	111	63024	9.234
64) $1,2-Dichloroethane-d4	(1)	6.838	102	15168	9.426
65) $1,2-Dichloroethane-d4(mz65)	(1)	6.838	65	77120	9.355
66) $1,2-Dichloroethane-d4(mz104)	(1)	6.838	104	9277	9.076
91) $Toluene-d8	(2)	9.375	98	253797	9.624
90) $Toluene-d8(mz100)	(2)	9.375	100	161462	9.561
119) $4-Bromofluorobenzene	(2)	11.883	95	87255	9.327
118) $4-Bromofluorobenzene(mz174)	(2)	11.880	174	76572	9.366

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08i05.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 18:37 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 18:55
Date, time and analyst ID of latest file update: 12-Oct-2009 18:33 maz02012

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 11
Compound Name : Trichlorofluoromethane
Scan Number : 343
Retention Time (minutes): 2.684
Quant Ion : 101
Area (flag) : 112312 M
Concentration (ug/L) : 9.8523
Integration start scan : 304 Integration stop scan: 387
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

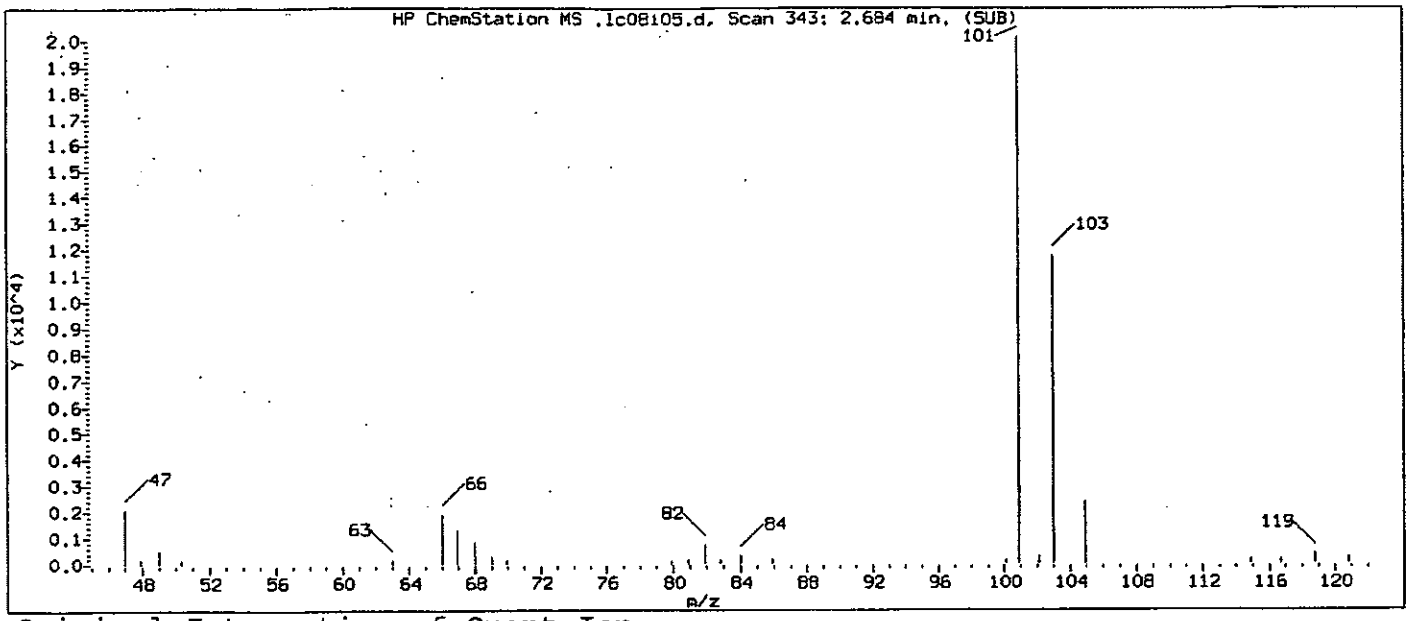
Analyst responsible for change: MA 10/12/09

GC/MS audit/management approval: 10/12/09

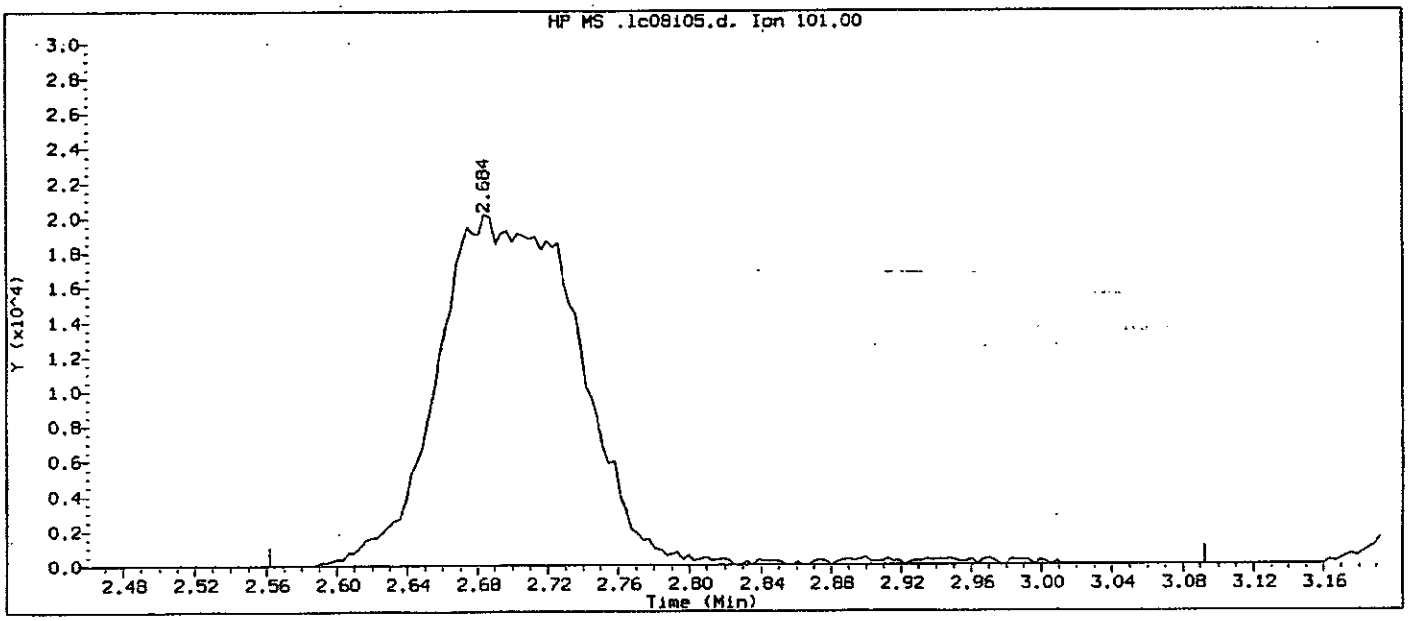
PTL03 0358

Manual Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08i05.d, generated on 10/12/2009 at 18:33

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08i05.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 18:37 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 18:55
Date, time and analyst ID of latest file update: 08-Oct-2009 18:55 Automation

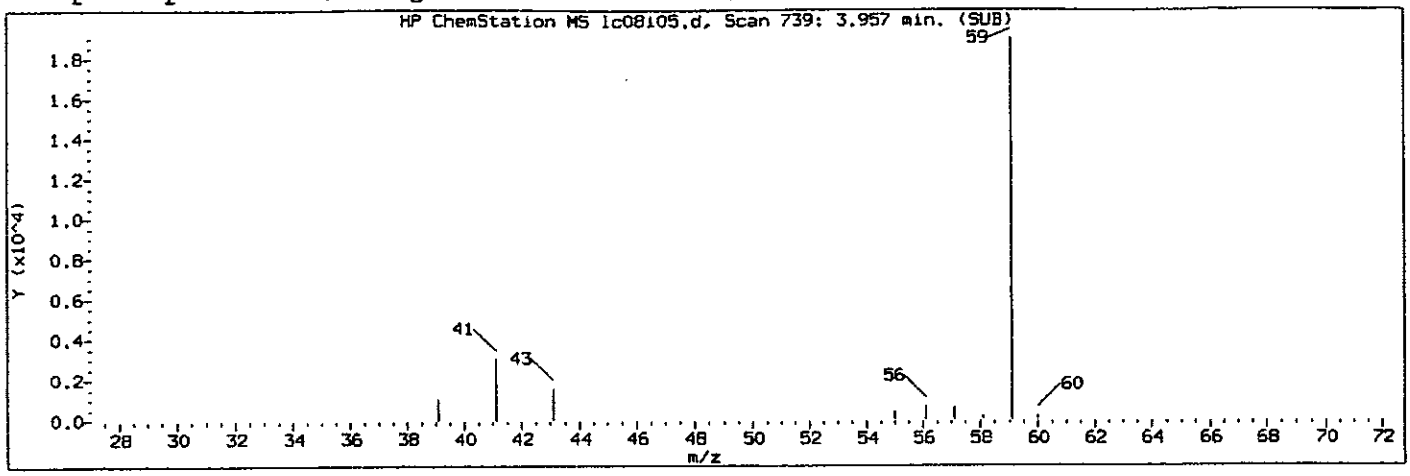
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	: 11
Compound Name	: Trichlorofluoromethane
Scan Number	: 343
Retention Time (minutes)	: 2.684
Quant Ion	: 101
Area	: 114408
Concentration (ug/L)	: 9.9516
Integration start scan	: 304 Integration stop scan: 469
Y at integration start	: 0 Y at integration end: 0

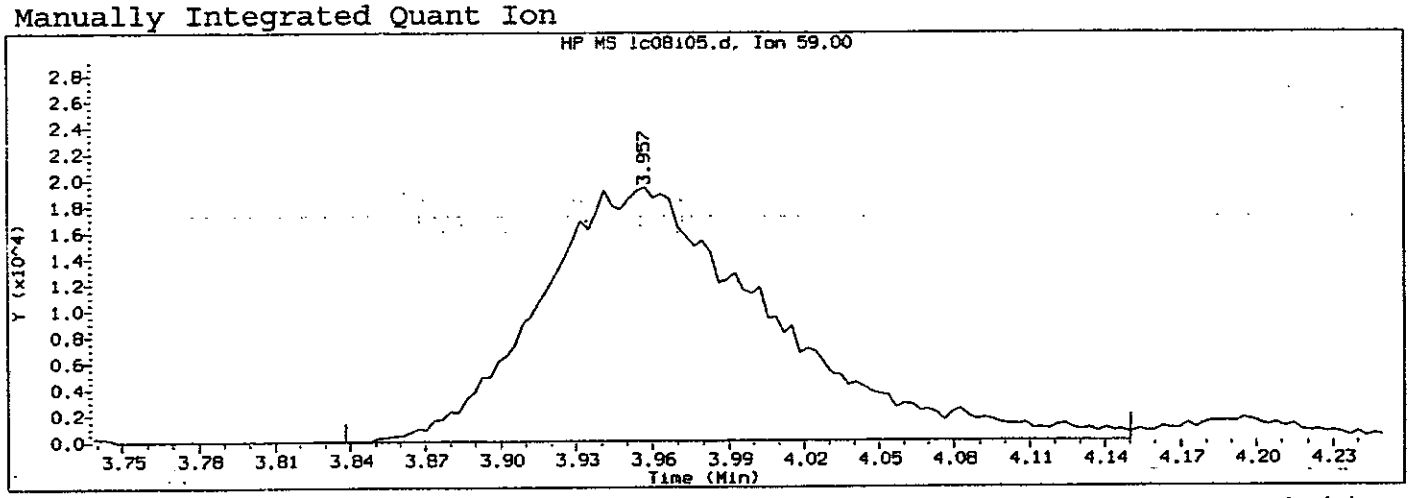
PTL03 0359

Original Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08i05.d, generated on 10/12/2009 at 18:33

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08i05.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 18:37 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 18:55
Date, time and analyst ID of latest file update: 12-Oct-2009 18:33 maz02012

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 31
Compound Name : t-Butyl Alcohol
Scan Number : 739
Retention Time (minutes): 3.957
Quant Ion : 59
Area (flag) : 123768 M
Concentration (ug/L) : 99.0247
Integration start scan : 701 Integration stop scan: 798
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

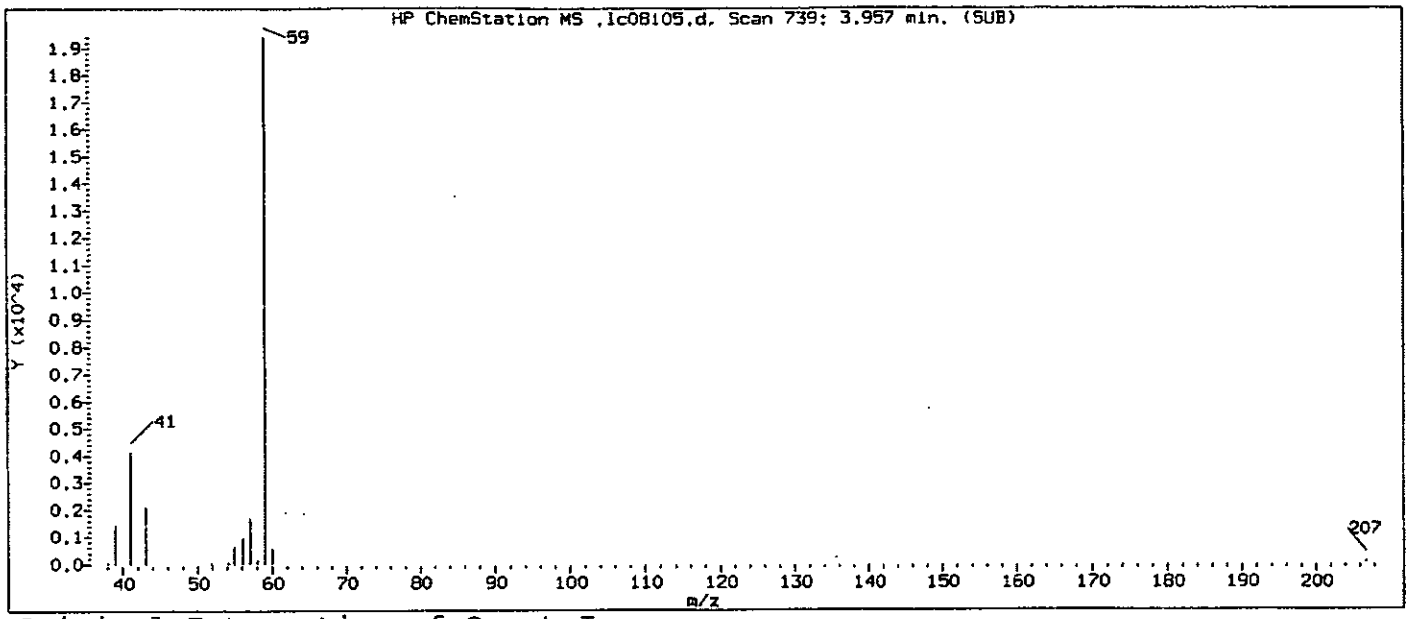
Analyst responsible for change: MS 10/12 10/12/09

GC/MS audit/management approval: 10-12-09

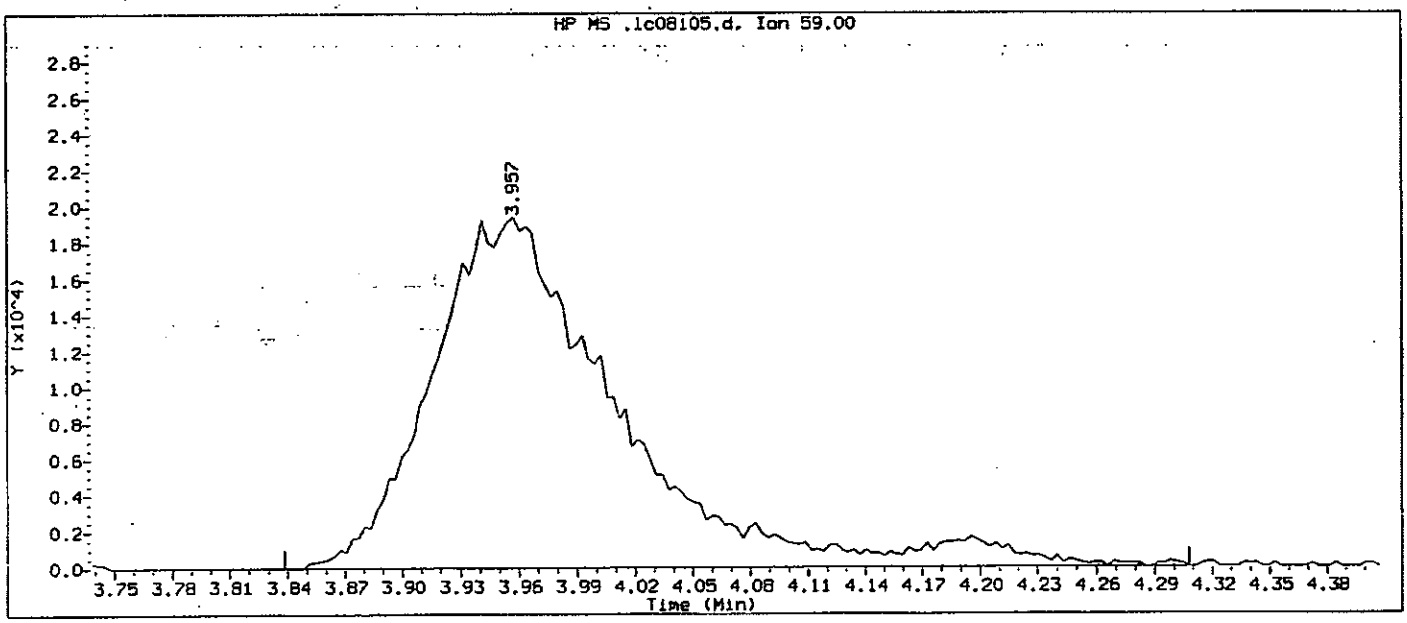
PTL83 8368

Manual Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08i05.d, generated on 10/12/2009 at 18:33

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08i05.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 18:37 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 18:55
Date, time and analyst ID of latest file update: 08-Oct-2009 18:55 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number	:	31
Compound Name	:	t-Butyl Alcohol
Scan Number	:	739
Retention Time (minutes)	:	3.957
Quant Ion	:	59
Area	:	129978
Concentration (ug/L)	:	101.7912
Integration start scan	:	701 Integration stop scan: 847
Y at integration start	:	0 Y at integration end: 0

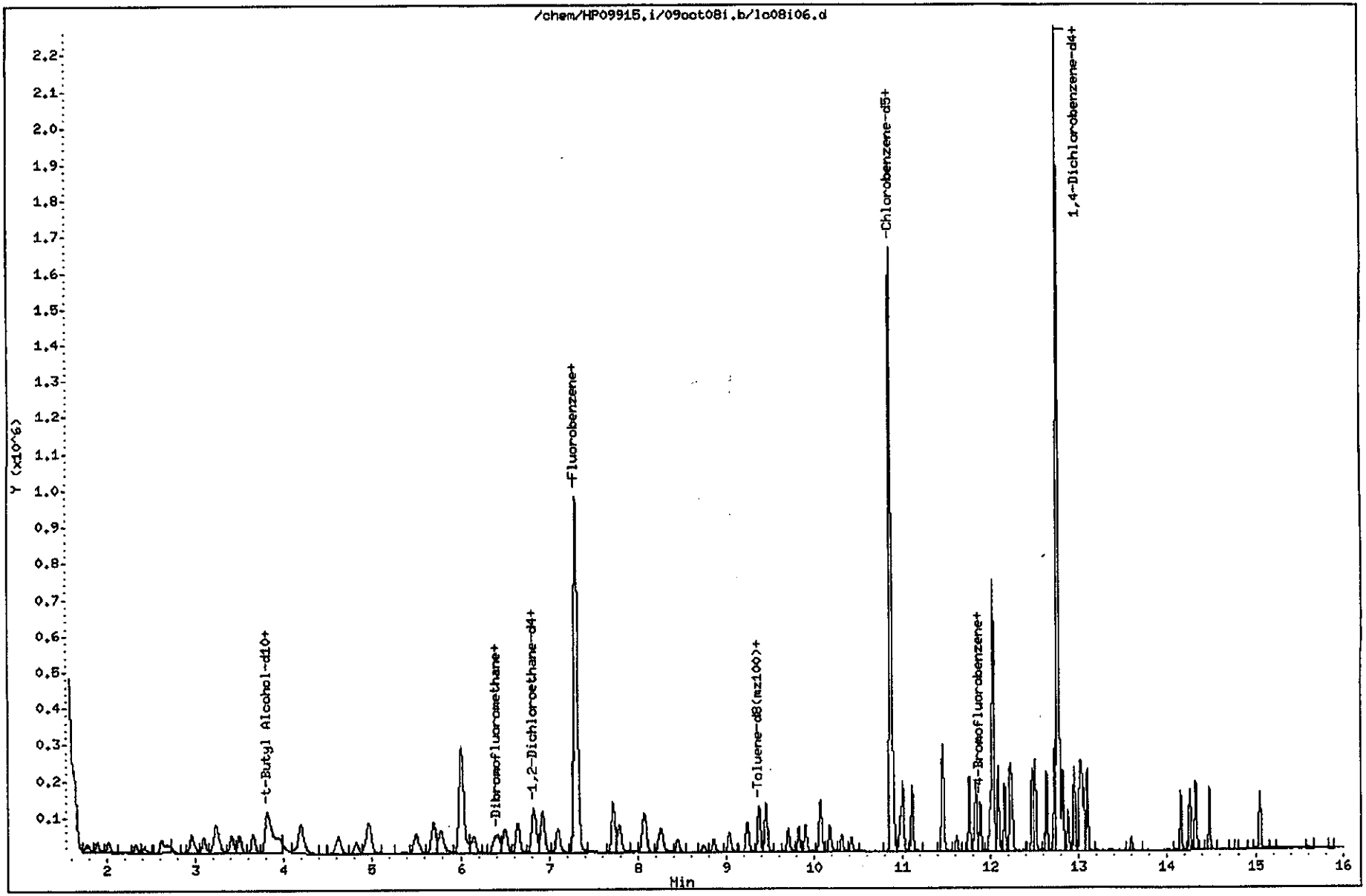
PTL03 0361

Original Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08i05.d, generated on 10/12/2009 at 18:33

Data File: /chem/HP09915.i/09oct08i.b/lc08i06.d
Date : 08-OCT-2009 18:59
Client ID: VSTD004
Sample Info: VSTD004;VSTD004;1;1;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: MAZ02012
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/1c08i06.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 18:59 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:34 maz02012

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.768	85	43414	4.059
3) Chloromethane	(1)	1.887	50	36697M	3.973
4) Vinyl Chloride	(1)	2.012	62	33879	4.024
8) Bromomethane	(1)	2.327	94	19391	4.009
9) Chloroethane	(1)	2.421	64	18051	4.010
10) Dichlorofluoromethane	(1)	2.613	67	49676	4.381
11) Trichlorofluoromethane	(1)	2.678	101	46568	4.138
15) Ethyl Ether	(1)	2.951	59	17296	4.239
16) Freon 123a	(1)	2.964	67	29241	4.359
18) Acrolein	(4)	3.093	56	55605	40.079
19) 1,1-Dichloroethene	(1)	3.228	96	25728	4.616
20) Freon 113	(1)	3.237	101	29238	4.480
21) Acetone	(1)	3.266	43	25755	8.720
22) 2-Propanol	(4)	3.408	45	67960	78.119
23) Methyl Iodide	(1)	3.408	142	48217	4.016
24) Carbon Disulfide	(1)	3.501	76	91447	3.927
27) Allyl Chloride	(1)	3.655	41	47127	3.909
28) Methyl Acetate	(1)	3.662	43	33650	4.168
29) Methylene Chloride	(1)	3.803	84	36442	4.800
30)*t-Butyl Alcohol-d10	(4)	3.842	65	267597	250.000
31) t-Butyl Alcohol	(4)	3.941	59	98812	78.681
32) Acrylonitrile	(1)	4.128	53	15665	4.043
33) trans-1,2-Dichloroethene	(1)	4.195	96	28119	4.088
34) Methyl Tertiary Butyl Ether	(1)	4.202	73	88916	3.977
35) n-Hexane	(1)	4.620	57	43420	4.043
42) 1,2-Dichloroethene (total)	(1)		96	57892	8.188
36) 1,1-Dichloroethane	(1)	4.819	63	52230	4.118
40) di-Isopropyl Ether	(1)	4.957	45	99409	3.914
41) 2-Chloro-1,3-Butadiene	(1)	4.967	53	43614	3.842
43) Ethyl t-Butyl Ether	(1)	5.494	59	84523	3.873
44) cis-1,2-Dichloroethene	(1)	5.684	96	29773	4.101
45) 2-Butanone	(1)	5.713	43	41503	7.735
46) 2,2-Dichloropropane	(1)	5.694	77	37058	3.832
47) Propionitrile	(4)	5.777	54	128271	79.628

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/lc08i06.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 18:59 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:34 maz02012

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
50) Methacrylonitrile	(1)	6.002	67	161459	39.909
51) Bromochloromethane	(1)	6.028	128	14108	3.997
52) Tetrahydrofuran	(4)	6.099	71	9046	7.521
53) Chloroform	(1)	6.150	83	45880	4.014
57) 1,1,1-Trichloroethane	(1)	6.417	97	48347	4.333
60) Cyclohexane	(1)	6.501	56	51647	3.918
59) Cyclohexane (mz 84)	(1)	6.501	84	40434	3.846
58) Cyclohexane (mz 69)	(1)	6.498	69	14906	3.906
61) 1,1-Dichloropropene	(1)	6.642	75	37321	3.888
62) Carbon Tetrachloride	(1)	6.658	117	32515	3.719
63) Isobutyl Alcohol	(4)	6.819	41	88192	190.074
67) Benzene	(1)	6.925	78	112668	3.994
68) 1,2-Dichloroethane	(1)	6.938	62	38083	3.857
69) 1,2-Dichloroethane (mz 98)	(1)	6.938	98	3289	3.961
71) t-Amyl Methyl Ether	(1)	7.096	73	75105	3.702
72) *Fluorobenzene	(1)	7.301	96	1285240	50.000
74) n-Heptane	(1)	7.314	43	45552	4.143
75) n-Butanol	(4)	7.719	56	132380	364.591
76) Trichloroethene	(1)	7.797	95	27216	3.942
77) Methylcyclohexane	(1)	8.057	83	42652	3.741
78) Methylcyclohexane (mz98)	(1)	8.057	98	19170	3.759
79) 1,2-Dichloropropane	(1)	8.086	63	29950	3.925
80) Dibromomethane	(1)	8.227	93	17416	3.823
81) Methyl Methacrylate	(1)	8.263	69	23156	3.572
82) 1,4-Dioxane	(4)	8.269	88	21836	197.267
84) Bromodichloromethane	(1)	8.446	83	30254	3.630
85) 2-Nitropropane	(1)	8.745	41	15950	10.459
86) 2-Chloroethyl Vinyl Ether	(1)	8.854	63	19388	3.476
87) cis-1,3-Dichloropropene	(1)	9.038	75	39776	3.575
89) 4-Methyl-2-Pentanone	(1)	9.243	43	76173	6.940
93) Toluene	(2)	9.452	92	66344	3.990
94) trans-1,3-Dichloropropene	(2)	9.706	75	36996	3.522
95) Ethyl Methacrylate	(2)	9.825	69	36803	3.475
96) 1,1,2-Trichloroethane	(2)	9.899	97	24772	4.003

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/lc08i06.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 18:59 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:34 maz02012

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
97) Tetrachloroethene	(2)	10.067	166	29967	4.075
98) 1,3-Dichloropropane	(2)	10.079	76	44206	3.874
100) 2-Hexanone	(2)	10.176	43	57016	7.002
102) Dibromochloromethane	(2)	10.314	129	24039	3.471
103) 1,2-Dibromoethane	(2)	10.420	107	26264	3.780
104) *Chlorobenzene-d5	(2)	10.870	117	934449	50.000
105) Chlorobenzene	(2)	10.903	112	76042	4.026
107) 1,1,1,2-Tetrachloroethane	(2)	10.976	131	23779	3.697
108) Ethylbenzene	(2)	11.002	91	125222	3.894
109) m+p-Xylene	(2)	11.108	106	49664	3.947
110) Xylene (Total)	(2)		106	96755	7.937
111) o-Xylene	(2)	11.449	106	47091	3.991
112) Styrene	(2)	11.462	104	72805	3.763
113) Bromoform	(2)	11.613	173	17139	3.388
115) Isopropylbenzene	(2)	11.758	105	121008	3.934
117) Cyclohexanone	(4)	11.829	55	78361	195.750
120) 1,1,2,2-Tetrachloroethane	(3)	11.989	83	39674	3.995
122) Bromobenzene	(3)	12.009	156	32440	3.996
123) 1,2,3-Trichloropropane	(3)	12.028	110	11599	3.988
124) trans-1,4-Dichloro-2-Butene	(3)	12.031	53	123949	37.337
125) n-Propylbenzene	(3)	12.086	120	35674M	3.973
126) 2-Chlorotoluene	(3)	12.156	126	30961	4.031
127) 1,3,5-Trimethylbenzene	(3)	12.221	120	51217	3.947
128) 4-Chlorotoluene	(3)	12.240	126	32396	4.053
130) tert-Butylbenzene	(3)	12.472	134	23300	3.975
131) Pentachloroethane	(3)	12.488	167	18737	3.761
132) 1,2,4-Trimethylbenzene	(3)	12.504	105	105463	3.911
134) sec-Butylbenzene	(3)	12.636	134	27160	4.011
135) 1,3-Dichlorobenzene	(3)	12.722	146	60728	4.036
136) p-Isopropyltoluene	(3)	12.735	134	29892	3.926
137) *1,4-Dichlorobenzene-d4	(3)	12.767	152	528936	50.000
138) 1,4-Dichlorobenzene	(3)	12.783	146	63737	4.000
139) 1,2,3-Trimethylbenzene	(3)	12.816	120	46281	3.845
140) Benzyl Chloride	(3)	12.877	91	64799	3.294

M = Compound was manually integrated.

* = Compound is an internal standard.

PTL03 8365

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/lc08i06.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 18:59 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:34 maz02012

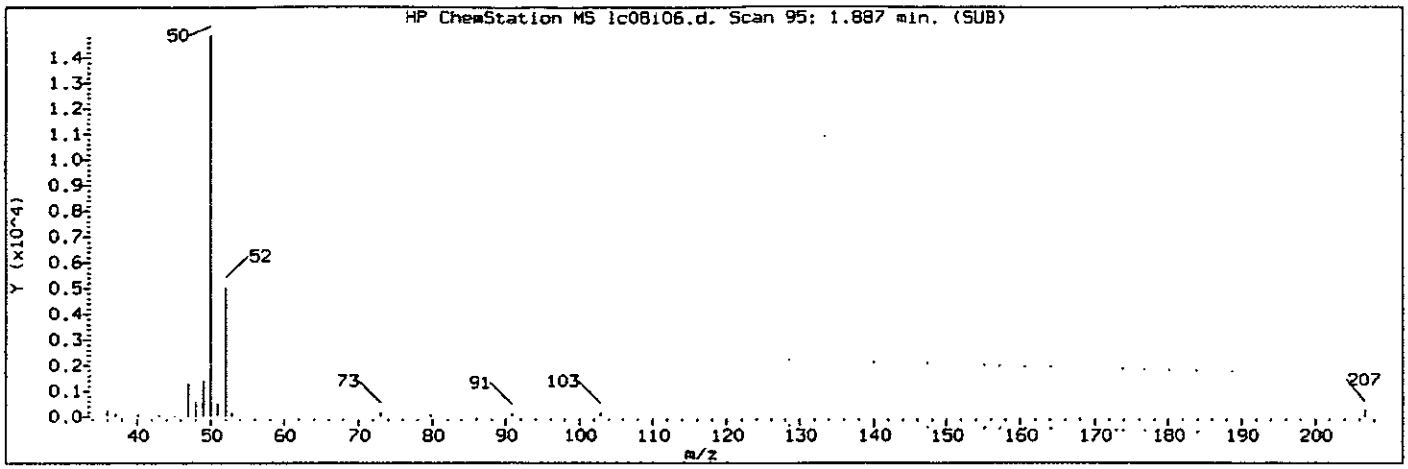
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
141) 1,3-Diethylbenzene	(3)	12.947	119	63876	3.835
142) 1,4-Diethylbenzene	(3)	13.012	119	63860	3.882
143) n-Butylbenzene	(3)	13.028	92	55463	4.021
144) 1,2-Dichlorobenzene	(3)	13.057	146	59986	4.069
145) 1,2-Diethylbenzene	(3)	13.095	119	52654	3.845
146) 1,2-Dibromo-3-Chloropropane	(3)	13.591	75	7432	3.465
147) 1,2,4-Trichlorobenzene	(3)	14.150	180	43785	3.885
148) Hexachlorobutadiene	(3)	14.256	225	26948	4.425
149) Naphthalene	(3)	14.320	128	126764	3.726
150) 1,2,3-Trichlorobenzene	(3)	14.475	180	44685	3.986
152) 2-Methylnaphthalene	(3)	15.053	142	66201M	3.438
54)$Dibromofluoromethane	(1)	6.369	113	25801	3.922
55)$Dibromofluoromethane(mz111)	(1)	6.372	111	26916	3.995
64)$1,2-Dichloroethane-d4	(1)	6.835	102	6600	4.154
65)$1,2-Dichloroethane-d4(mz65)	(1)	6.835	65	32322	3.972
66)$1,2-Dichloroethane-d4(mz104)	(1)	6.826	104	4215	4.177
91)$Toluene-d8	(2)	9.375	98	105435	4.048
90)$Toluene-d8(mz100)	(2)	9.375	100	66724	4.000
119)$4-Bromofluorobenzene	(2)	11.880	95	37804	4.091
118)$4-Bromofluorobenzene(mz174)	(2)	11.880	174	33676	4.170

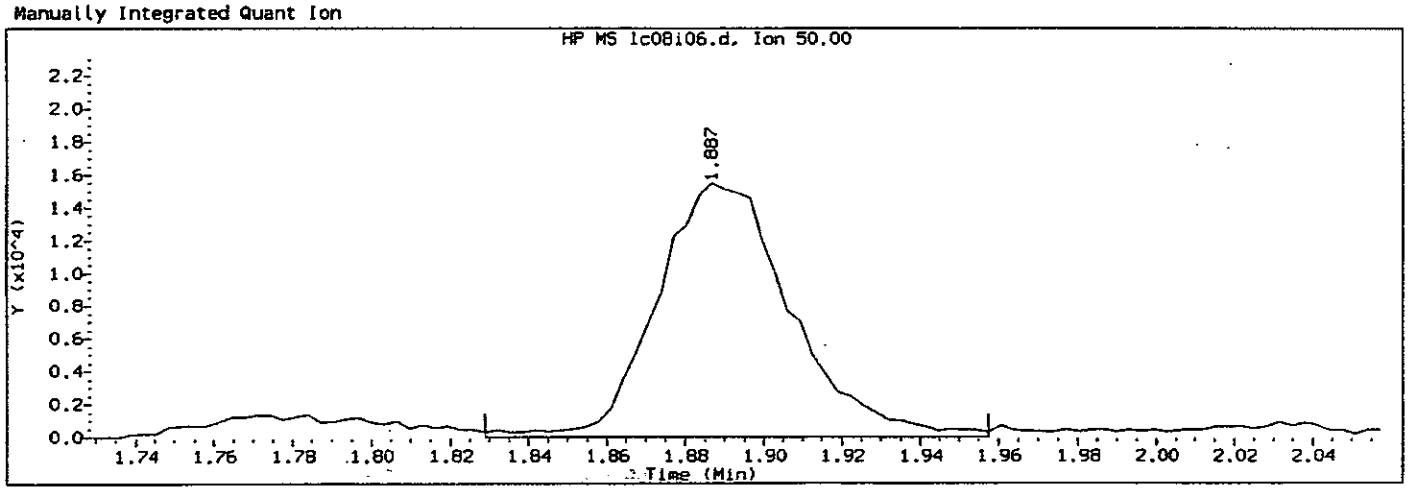
M = Compound was manually integrated.

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08i06.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 18:59 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 19:17
Date, time and analyst ID of latest file update: 08-Oct-2009 19:31 maz02012

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 3
Compound Name : Chloromethane
Scan Number : 95
Retention Time (minutes): 1.887
Quant Ion : 50
Area (flag) : 36697 M
Concentration (ug/L) : 3.9734
Integration start scan : 76 Integration stop scan: 116
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

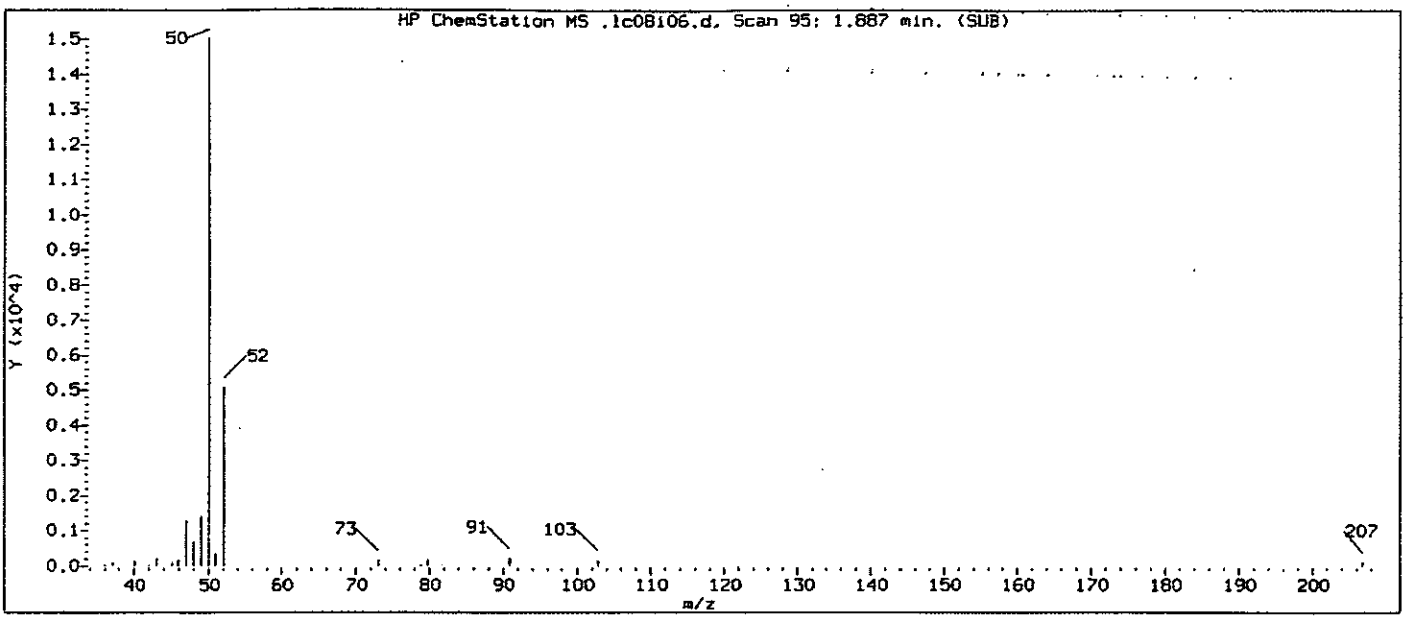
Analyst responsible for change: MS 10/8/09

GC/MS audit/management approval: 10/11/09

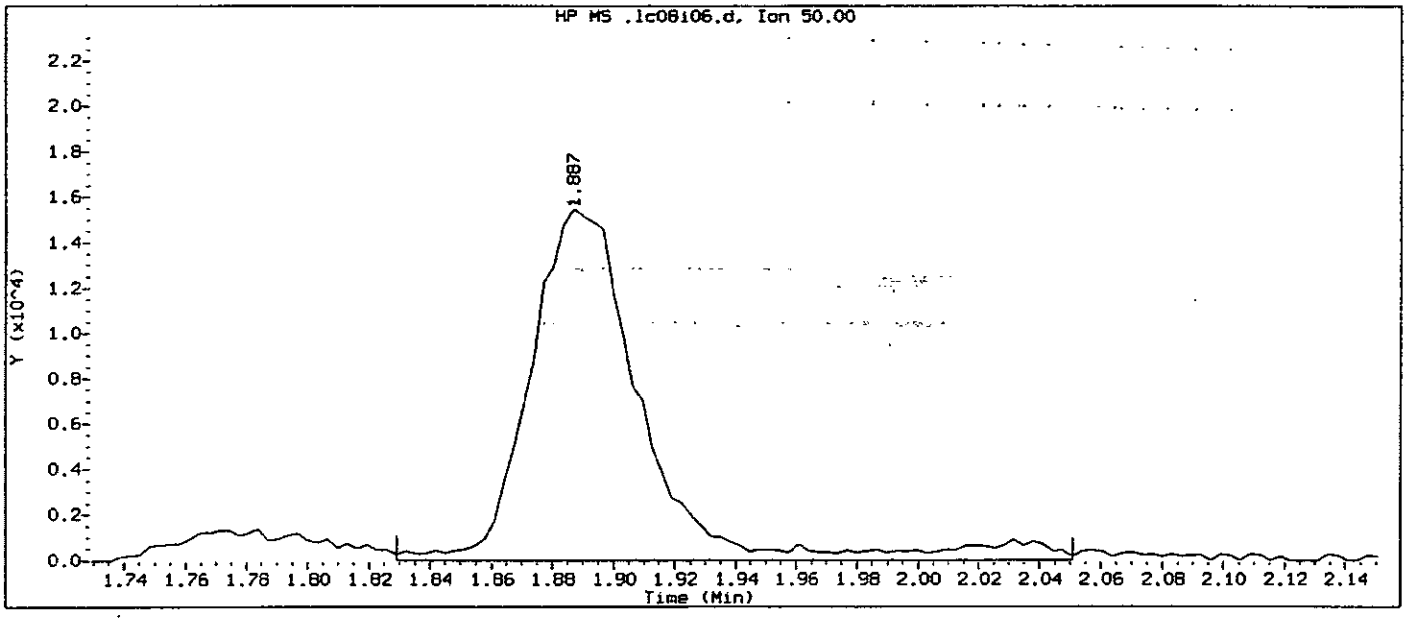
PTL83 8367

Manual Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08i06.d, generated on 10/08/2009 at 19:31

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08i06.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 18:59 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 19:17
Date, time and analyst ID of latest file update: 08-Oct-2009 19:17 Automation

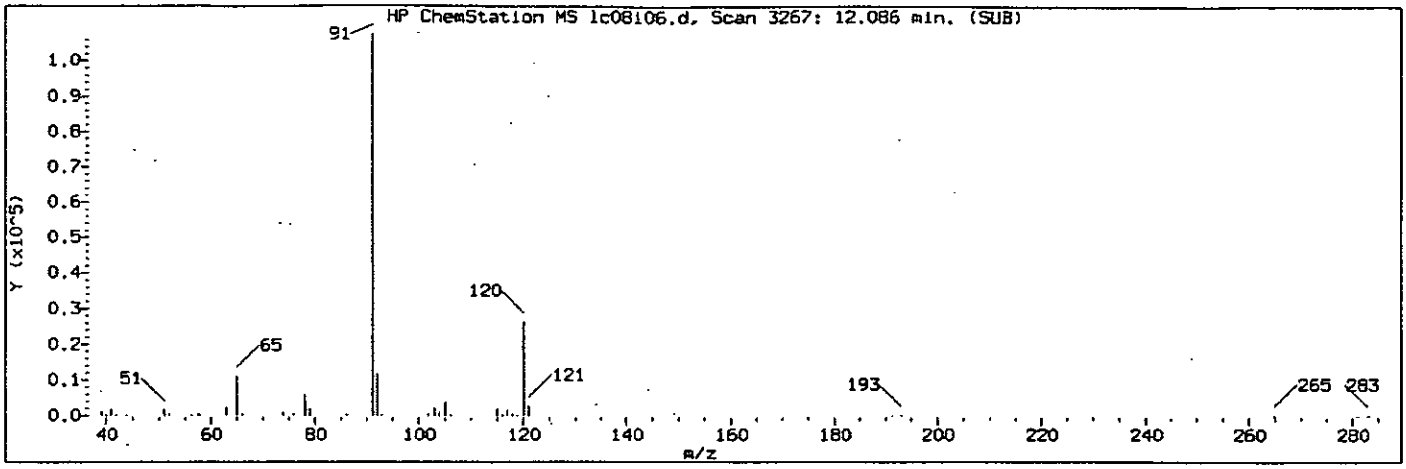
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 3
Compound Name : Chloromethane
Scan Number : 95
Retention Time (minutes): 1.887
Quant Ion : 50
Area : 39347
Concentration (ug/L) : 4.2100
Integration start scan : 76 Integration stop scan: 145
Y at integration start : 0 Y at integration end: 0

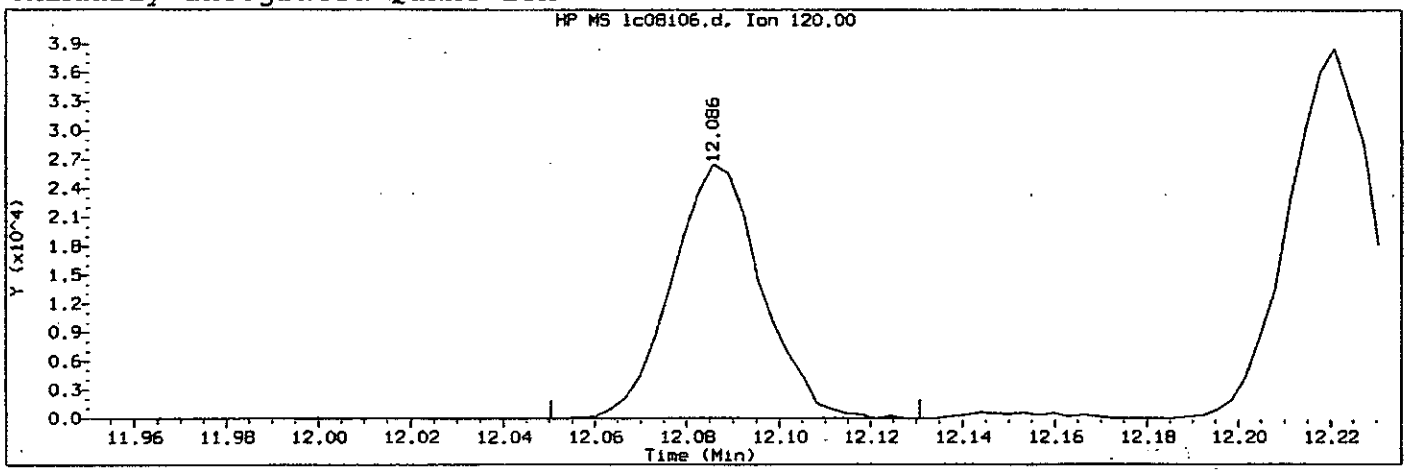
PTL03 0368

Original Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08i06.d, generated on 10/08/2009 at 19:31

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08i06.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 18:59 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 19:17
Date, time and analyst ID of latest file update: 12-Oct-2009 18:34 maz02012

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	:	125
Compound Name	:	n-Propylbenzene
Scan Number	:	3267
Retention Time (minutes)	:	12.086
Quant Ion	:	120
Area (flag)	:	35674 M
Concentration (ug/L)	:	3.9735
Integration start scan	:	3255 Integration stop scan: 3280
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

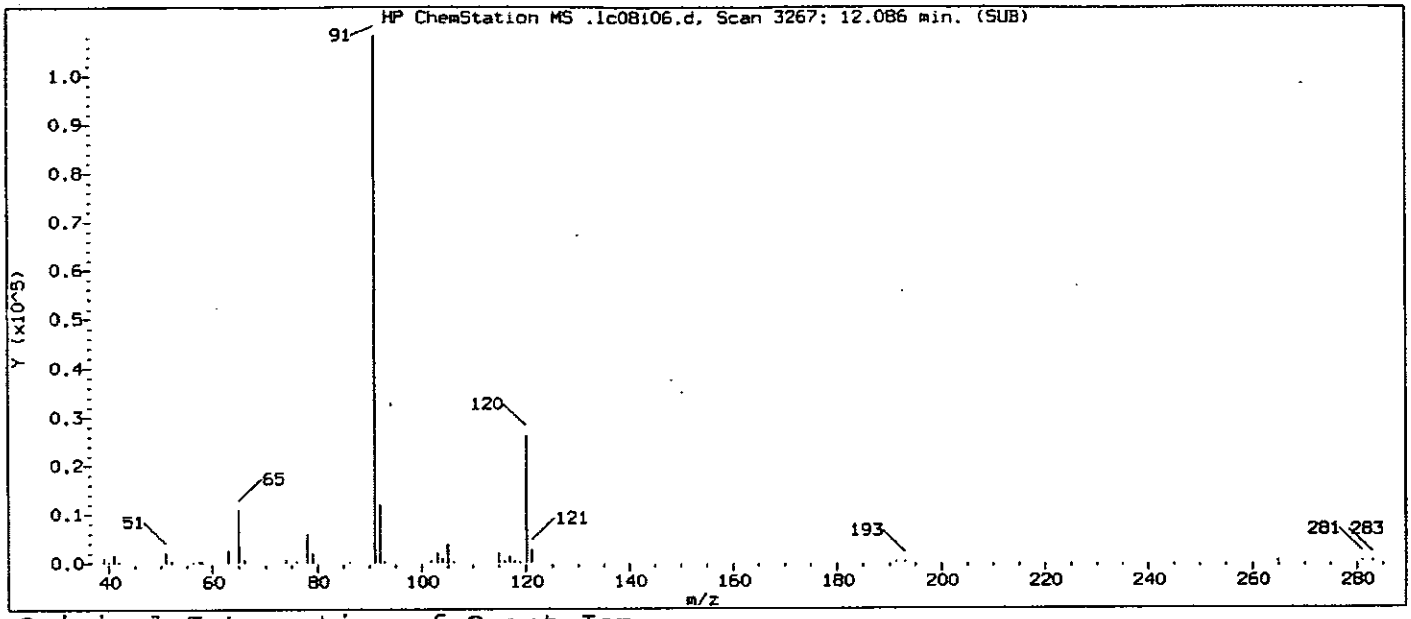
Analyst responsible for change: MAZ 10/12/09

GC/MS audit/management approval: 10-12-09

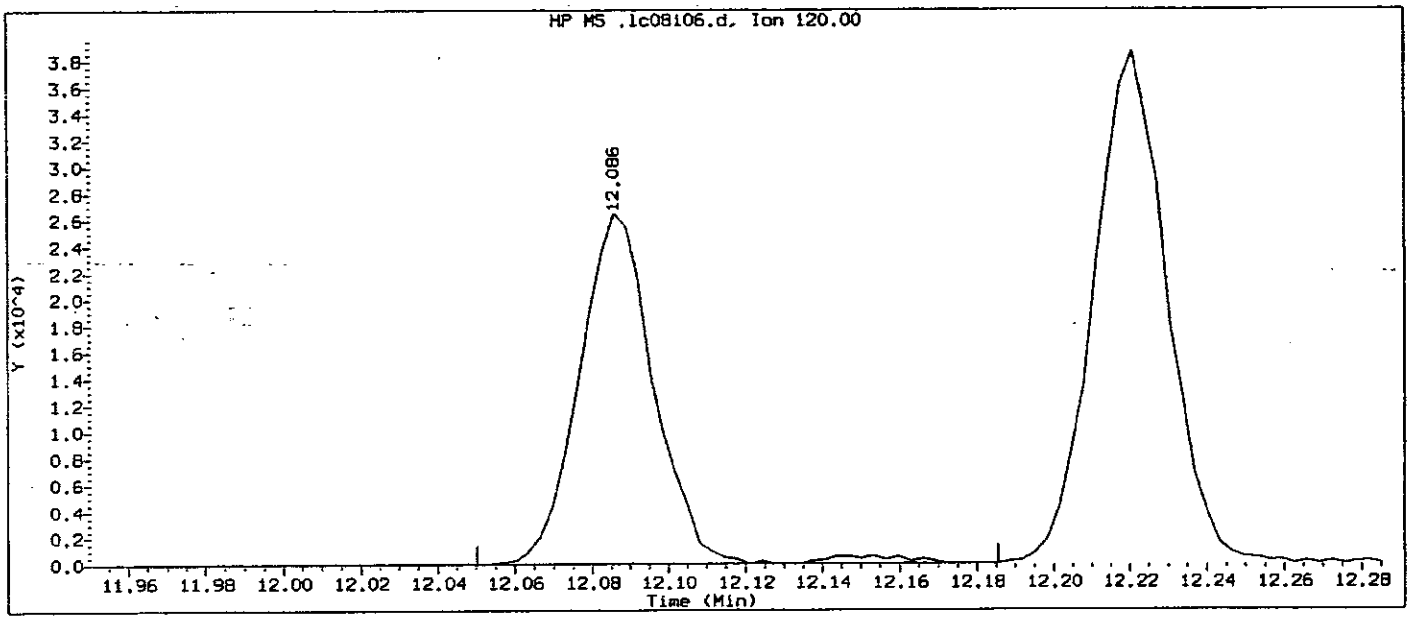
PTL03 8369

Manual Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08i06.d, generated on 10/12/2009 at 18:34

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08i06.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 18:59 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 19:17
Date, time and analyst ID of latest file update: 08-Oct-2009 19:17 Automation

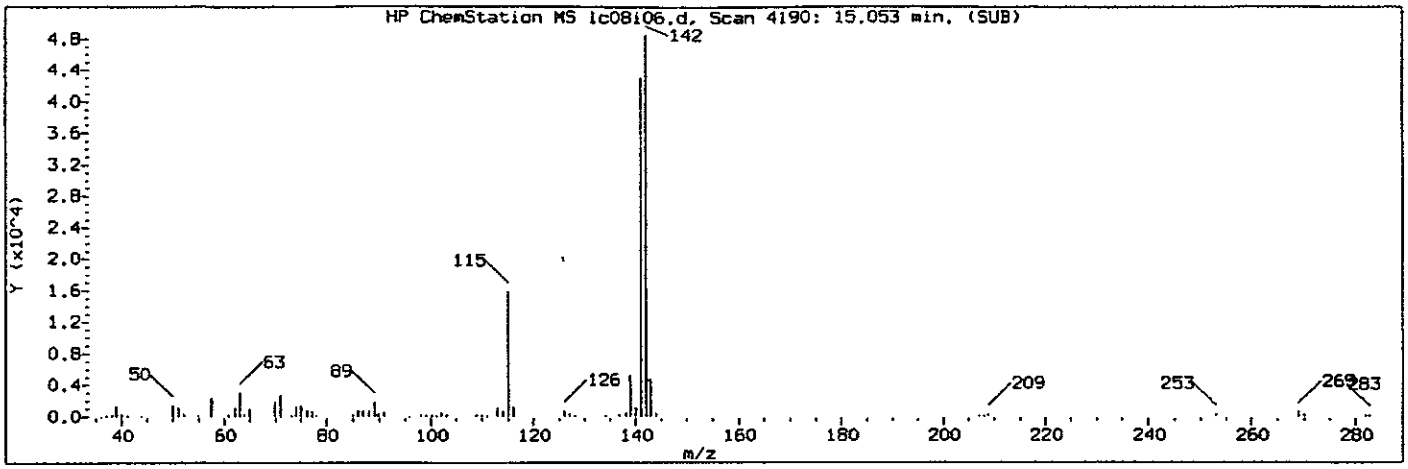
Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 125
Compound Name	: n-Propylbenzene
Scan Number	: 3267
Retention Time (minutes)	: 12.086
Quant Ion	: 120
Area	: 36490
Concentration (ug/L)	: 4.0490
Integration start scan	: 3255 Integration stop scan: 3297
Y at integration start	: 0 Y at integration end: 0

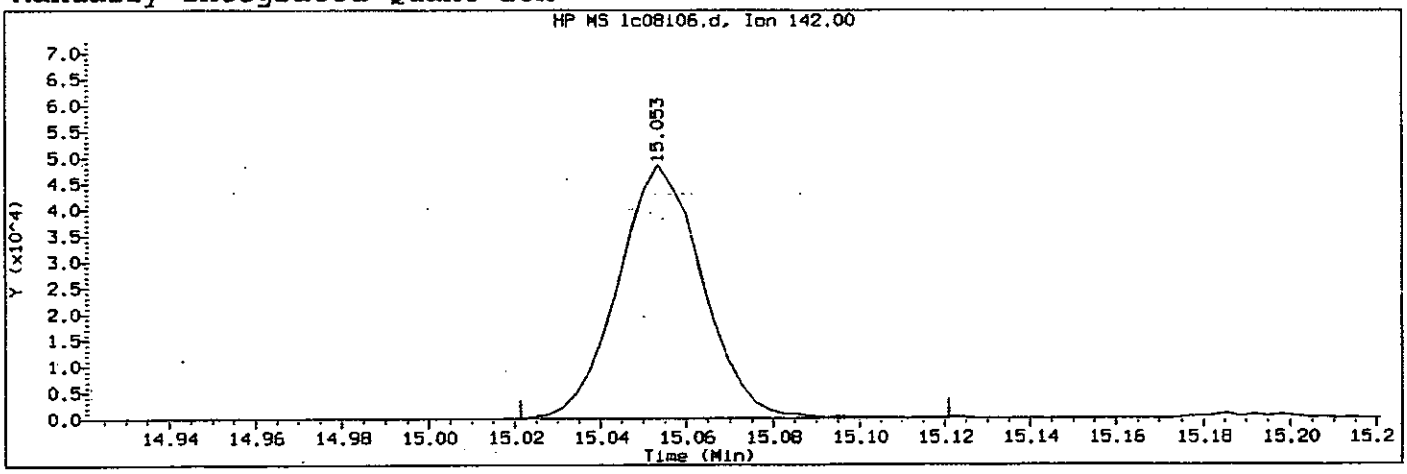
PTL03 0370

Original Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08i06.d, generated on 10/12/2009 at 18:34

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08i06.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 18:59 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 19:17
Date, time and analyst ID of latest file update: 12-Oct-2009 18:34 maz02012

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number : 152
Compound Name : 2-Methylnaphthalene
Scan Number : 4190
Retention Time (minutes): 15.053
Quant Ion : 142
Area (flag) : 66201 M
Concentration (ug/L) : 3.4380
Integration start scan : 4179 Integration stop scan: 4210
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak (improper) integration

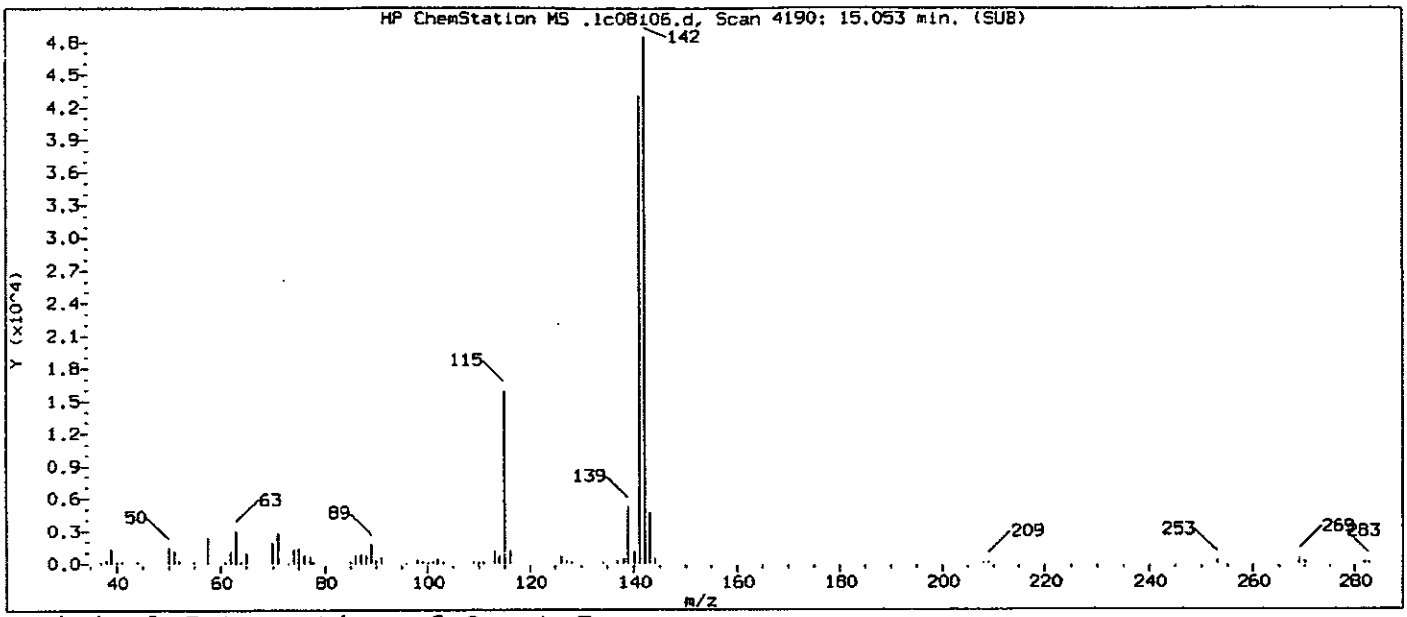
Analyst responsible for change: MA MAZ 10/12/09

GC/MS audit/management approval: [signature] 10-12-09

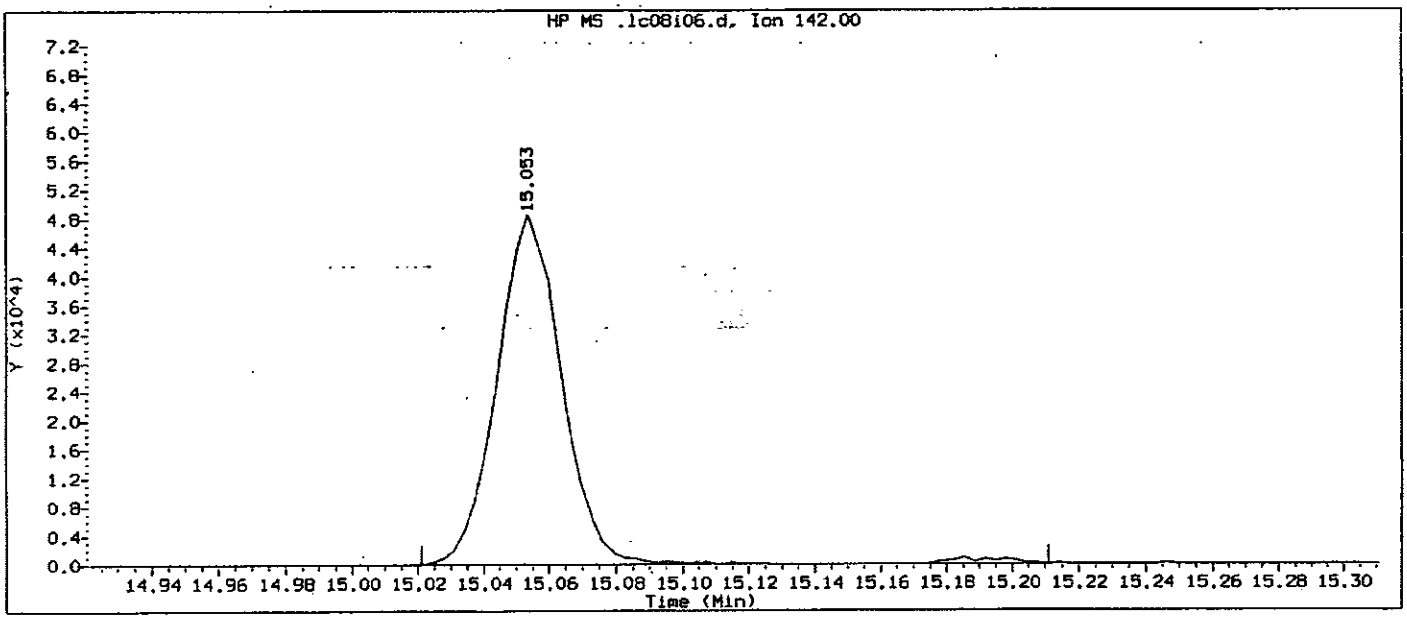
PTL03 0371

Manual Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08i06.d, generated on 10/12/2009 at 18:34

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08i06.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 18:59 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 08-OCT-2009 19:17
Date, time and analyst ID of latest file update: 08-Oct-2009 19:17 Automation

Sample Name: VSTD004 Lab Sample ID: VSTD004

Compound Number	: 152
Compound Name	: 2-Methylnaphthalene
Scan Number	: 4190
Retention Time (minutes)	: 15.053
Quant Ion	: 142
Area	: 67243
Concentration (ug/L)	: 3.4843
Integration start scan	: 4179 Integration stop scan: 4238
Y at integration start	: 0 Y at integration end: 0

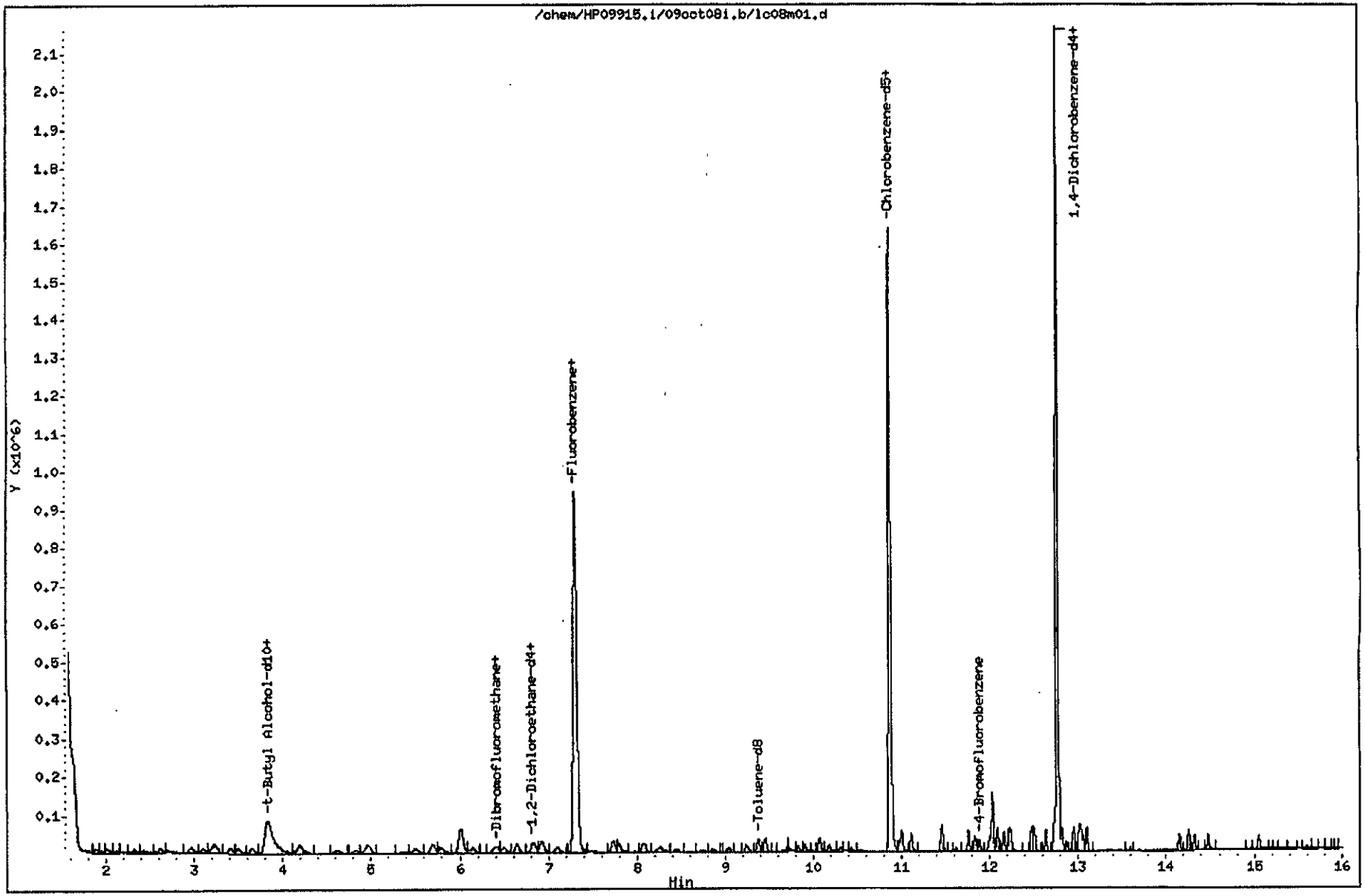
PTL03 0372

Original Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08i06.d, generated on 10/12/2009 at 18:34

Data File: /chem/HP09915.i/09oct08i.b/lc08m01.d
Date : 08-OCT-2009 19:20
Client ID: 1PPB MDL
Sample Info: 1PPB MDL;1 PPB MDL;1;3;MDL/LOQ;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: MAZ02012
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/1c08m01.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 19:20 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260W
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:36 maz02012

Sample Name: 1PPB MDL Lab Sample ID: 1 PPB MDL

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.784	85	7723	0.727
3) Chloromethane	(1)	1.884	50	13330	1.453
4) Vinyl Chloride	(1)	2.012	62	9567	1.144
8) Bromomethane	(1)	2.321	94	6074	1.596
9) Chloroethane	(1)	2.421	64	5583	1.593
10) Dichlorofluoromethane	(1)	2.613	67	14608	1.297
11) Trichlorofluoromethane	(1)	2.668	101	9357	0.837
15) Ethyl Ether	(1)	2.948	59	4154	1.025
16) Freon 123a	(1)	2.957	67	7334	1.101
18) Acrolein	(4)	3.099	56	13995	10.546
19) 1,1-Dichloroethene	(1)	3.218	96	5740	1.037
20) Freon 113	(1)	3.250	101	5066	0.782
21) Acetone	(1)	3.260	43	7748	2.641
22) 2-Propanol	(4)	3.420	45	17568	21.112
23) Methyl Iodide	(1)	3.408	142	13393	1.123
24) Carbon Disulfide	(1)	3.504	76	25978	1.123
27) Allyl Chloride	(1)	3.649	41	14666	1.225
28) Methyl Acetate	(1)	3.662	43	8345	1.041
29) Methylene Chloride	(1)	3.806	84	13923	1.847
30) *t-Butyl Alcohol-d10	(4)	3.835	65	255961	250.000
31) t-Butyl Alcohol	(4)	3.932	59	22697	18.895
32) Acrylonitrile	(1)	4.138	53	3392	0.881
33) trans-1,2-Dichloroethene	(1)	4.189	96	8383	1.227
34) Methyl Tertiary Butyl Ether	(1)	4.211	73	19797	0.891
35) n-Hexane	(1)	4.613	57	7339	0.688
42) 1,2-Dichloroethene (total)	(1)		96	16151	2.304
36) 1,1-Dichloroethane	(1)	4.822	63	15198	1.206
40) di-Isopropyl Ether	(1)	4.967	45	22938	0.909
41) 2-Chloro-1,3-Butadiene	(1)	4.964	53	11720	1.040
43) Ethyl t-Butyl Ether	(1)	5.491	59	17979	0.830
44) cis-1,2-Dichloroethene	(1)	5.690	96	7768	1.077
45) 2-Butanone	(1)	5.713	43	9504M	1.783
46) 2,2-Dichloropropane	(1)	5.690	77	10768	1.121
47) Propionitrile	(4)	5.787	54	29786	19.331

M = Compound was manually integrated.

* = Compound is an internal standard.

PTL03 0374

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/1c08m01.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 19:20 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260W
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:36 maz02012

Sample Name: 1PPB MDL Lab Sample ID: 1 PPB MDL

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
50) Methacrylonitrile	(1)	6.002	67	35656	8.874
51) Bromochloromethane	(1)	6.025	128	3053	0.871
52) Tetrahydrofuran	(4)	6.096	71	2124	1.846
53) Chloroform	(1)	6.150	83	12325	1.086
57) 1,1,1-Trichloroethane	(1)	6.420	97	12574	1.135
60) Cyclohexane	(1)	6.501	56	9637	0.736
61) 1,1-Dichloropropene	(1)	6.645	75	9356	0.981
62) Carbon Tetrachloride	(1)	6.645	117	8122	0.935
63) Isobutyl Alcohol	(4)	6.829	41	21097	47.536
67) Benzene	(1)	6.922	78	32673	1.166
68) 1,2-Dichloroethane	(1)	6.944	62	8888	0.906
71) t-Amyl Methyl Ether	(1)	7.096	73	16256	0.807
72) *Fluorobenzene	(1)	7.305	96	1276511	50.000
74) n-Heptane	(1)	7.317	43	8174	0.749
75) n-Butanol	(4)	7.726	56	28395	81.758
76) Trichloroethene	(1)	7.803	95	7835	1.143
77) Methylcyclohexane	(1)	8.060	83	7297	0.644
79) 1,2-Dichloropropane	(1)	8.083	63	6896	0.910
80) Dibromomethane	(1)	8.240	93	3660	0.809
81) Methyl Methacrylate	(1)	8.272	69	4899	0.761
82) 1,4-Dioxane	(4)	8.269	88	4310	40.707
84) Bromodichloromethane	(1)	8.449	83	6791	0.820
85) 2-Nitropropane	(1)	8.739	41	4006	6.361
86) 2-Chloroethyl Vinyl Ether	(1)	8.858	63	4233	0.764
87) cis-1,3-Dichloropropene	(1)	9.034	75	8499	0.769
89) 4-Methyl-2-Pentanone	(1)	9.237	43	16384	1.503
93) Toluene	(2)	9.459	92	18681	1.142
94) trans-1,3-Dichloropropene	(2)	9.706	75	7604	0.736
95) Ethyl Methacrylate	(2)	9.822	69	7216	0.693
96) 1,1,2-Trichloroethane	(2)	9.909	97	5468	0.898
97) Tetrachloroethene	(2)	10.070	166	7849	1.085
98) 1,3-Dichloropropane	(2)	10.083	76	9741	0.868
100) 2-Hexanone	(2)	10.182	43	11638	1.453
102) Dibromochloromethane	(2)	10.314	129	5122	0.752

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/1c08m01.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 19:20 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260W
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:36 maz02012

Sample Name: 1PPB MDL Lab Sample ID: 1 PPB MDL

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
103) 1,2-Dibromoethane	(2)	10.430	107	5486	0.803
104) *Chlorobenzene-d5	(2)	10.870	117	919147	50.000
105) Chlorobenzene	(2)	10.902	112	20023	1.078
107) 1,1,1,2-Tetrachloroethane	(2)	10.976	131	5441	0.860
108) Ethylbenzene	(2)	11.002	91	34115	1.079
109) m+p-Xylene	(2)	11.108	106	13681	1.105
110) Xylene (Total)	(2)		106	25916	2.159
111) o-Xylene	(2)	11.452	106	12235	1.054
112) Styrene	(2)	11.462	104	15950	0.838
113) Bromoform	(2)	11.616	173	3663	0.736
115) Isopropylbenzene	(2)	11.758	105	31012	1.025
117) Cyclohexanone	(4)	11.832	55	16790	43.849
120) 1,1,2,2-Tetrachloroethane	(3)	11.989	83	8868	0.909
122) Bromobenzene	(3)	12.009	156	7618	0.955
123) 1,2,3-Trichloropropane	(3)	12.028	110	2797	0.979
124) trans-1,4-Dichloro-2-Butene	(3)	12.031	53	24501	7.515
125) n-Propylbenzene	(3)	12.086	120	10178	1.154
126) 2-Chlorotoluene	(3)	12.160	126	8586	1.138
127) 1,3,5-Trimethylbenzene	(3)	12.221	120	13225	1.038
128) 4-Chlorotoluene	(3)	12.243	126	7898	1.006
130) tert-Butylbenzene	(3)	12.472	134	6369	1.106
131) Pentachloroethane	(3)	12.488	167	4145	0.847
132) 1,2,4-Trimethylbenzene	(3)	12.504	105	26337	0.994
134) sec-Butylbenzene	(3)	12.636	134	7110	1.069
135) 1,3-Dichlorobenzene	(3)	12.722	146	15078	1.020
136) p-Isopropyltoluene	(3)	12.732	134	8188	1.095
137) *1,4-Dichlorobenzene-d4	(3)	12.767	152	519490	50.000
138) 1,4-Dichlorobenzene	(3)	12.787	146	15934	1.018
139) 1,2,3-Trimethylbenzene	(3)	12.816	120	11170	0.945
140) Benzyl Chloride	(3)	12.877	91	13494	0.698
141) 1,3-Diethylbenzene	(3)	12.951	119	16746	1.024
142) 1,4-Diethylbenzene	(3)	13.009	119	18031	1.116
143) n-Butylbenzene	(3)	13.028	92	15442	1.140
144) 1,2-Dichlorobenzene	(3)	13.060	146	13972	0.965

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/1c08m01.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 19:20 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260W
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:36 maz02012

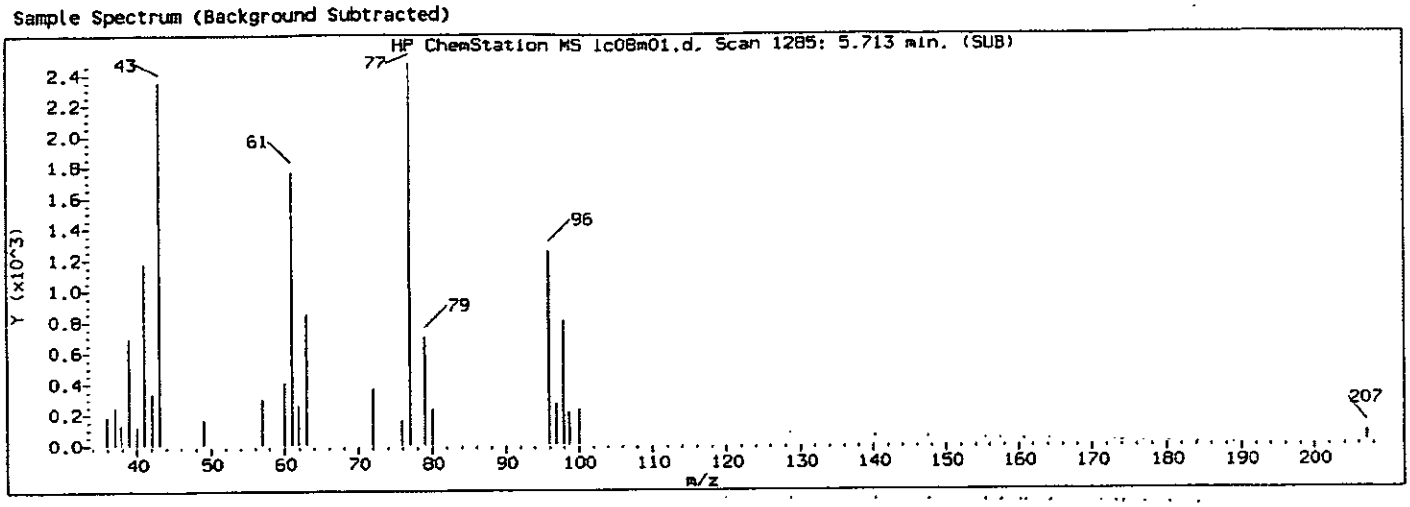
Sample Name: 1PPB MDL Lab Sample ID: 1 PPB MDL

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
145) 1,2-Diethylbenzene	(3)	13.099	119	14438	1.074
146) 1,2-Dibromo-3-Chloropropane	(3)	13.549	75	1670	0.793
147) 1,2,4-Trichlorobenzene	(3)	14.153	180	11220	1.014
148) Hexachlorobutadiene	(3)	14.256	225	9179	1.534
149) Naphthalene	(3)	14.317	128	27116	0.812
150) 1,2,3-Trichlorobenzene	(3)	14.475	180	11421	1.037
152) 2-Methylnaphthalene	(3)	15.057	142	15838	0.837
54) $Dibromofluoromethane	(1)	6.369	113	6513	0.997
64) $1,2-Dichloroethane-d4	(1)	6.832	102	1384	0.877
91) $Toluene-d8	(2)	9.378	98	28077	1.096
119) $4-Bromofluorobenzene	(2)	11.883	95	9042M	0.995

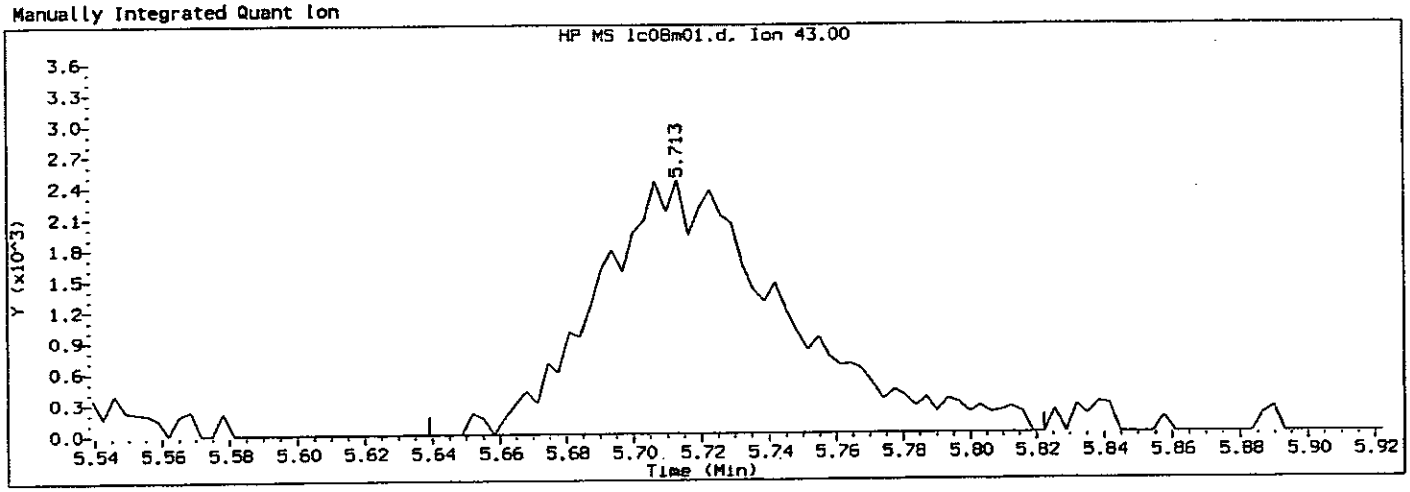
M = Compound was manually integrated.

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08m01.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 19:20 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260W
Calibration date and time: 08-OCT-2009 20:04
Date, time and analyst ID of latest file update: 08-Oct-2009 20:12 maz02012

Sample Name: 1PPB MDL Lab Sample ID: 1 PPB MDL

Compound Number : 45
Compound Name : 2-Butanone
Scan Number : 1285
Retention Time (minutes): 5.713
Quant Ion : 43
Area (flag) : 9504 M
Concentration (ug/L) : 1.7833
Integration start scan : 1261 Integration stop scan: 1318
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): ③ missed peak ~~improper integration~~

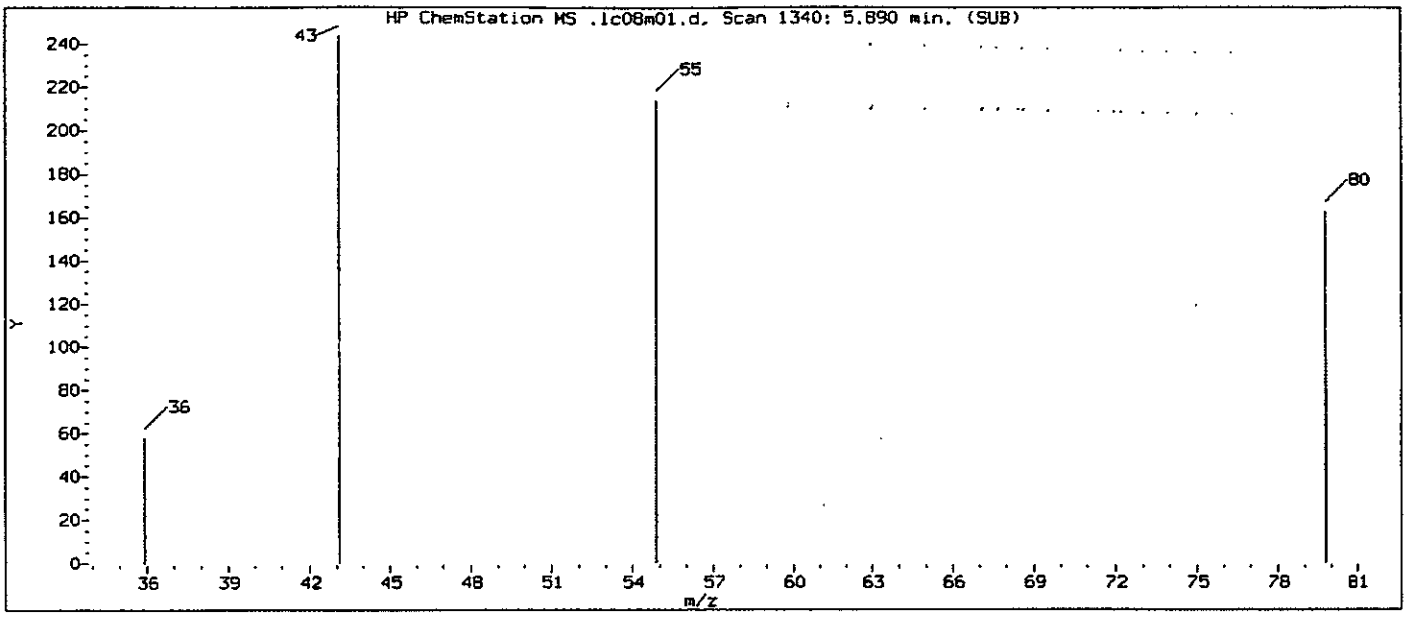
Analyst responsible for change: MAZ 10/8/09

GC/MS audit/management approval: ③ dmdz 10-12-09

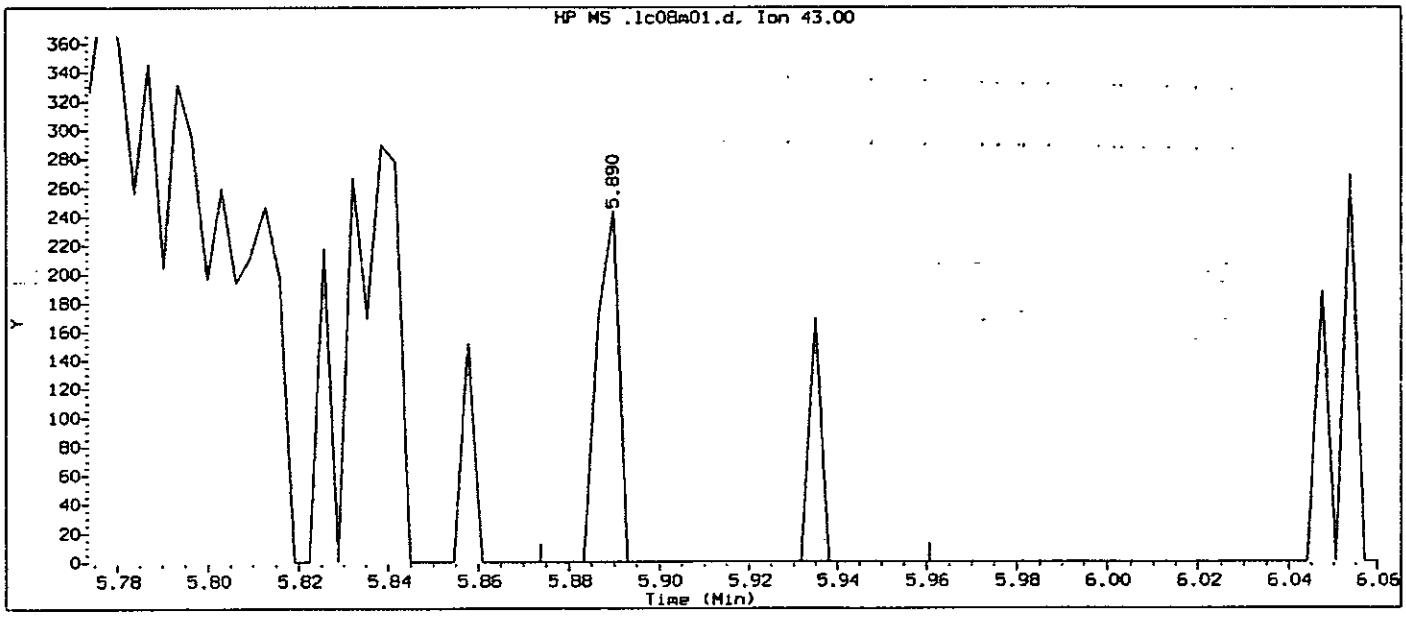
PTL03 0378

Manual Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08m01.d, generated on 10/08/2009 at 20:12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08m01.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 19:20 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260W
Calibration date and time: 08-OCT-2009 19:17
Date, time and analyst ID of latest file update: 08-Oct-2009 19:39 Automation

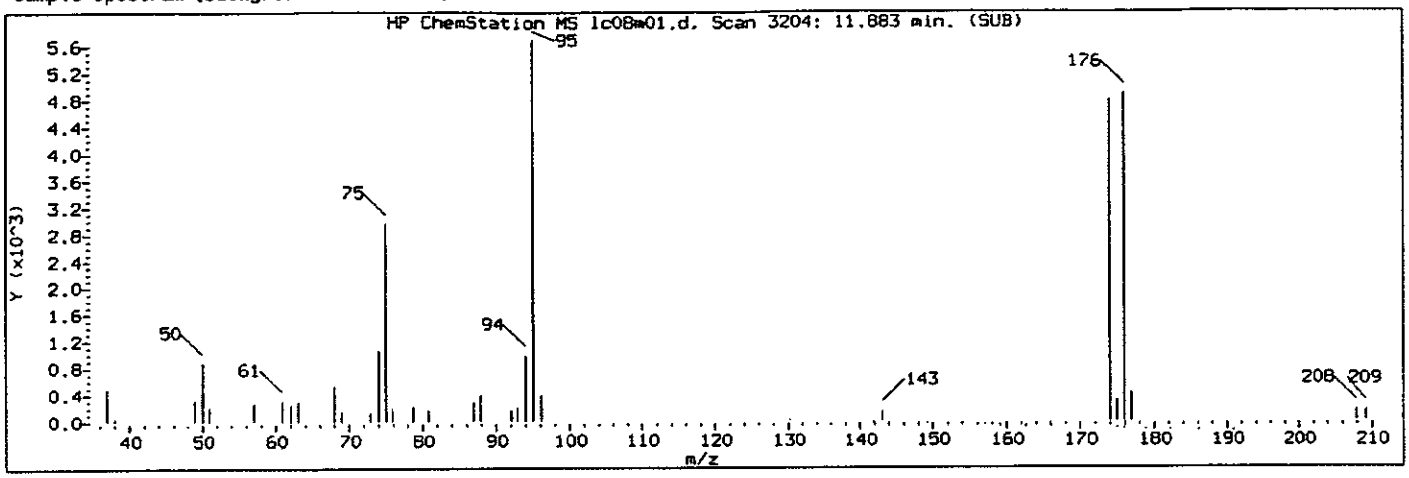
Sample Name: 1PPB MDL Lab Sample ID: 1 PPB MDL

Compound Number : 45
Compound Name : 2-Butanone
Scan Number : 1340
Retention Time (minutes): 5.890
Quant Ion : 43
Area : 113
Concentration (ug/L) : 0.0212
Integration start scan : 1334 Integration stop scan: 1361
Y at integration start : 0 Y at integration end: 0

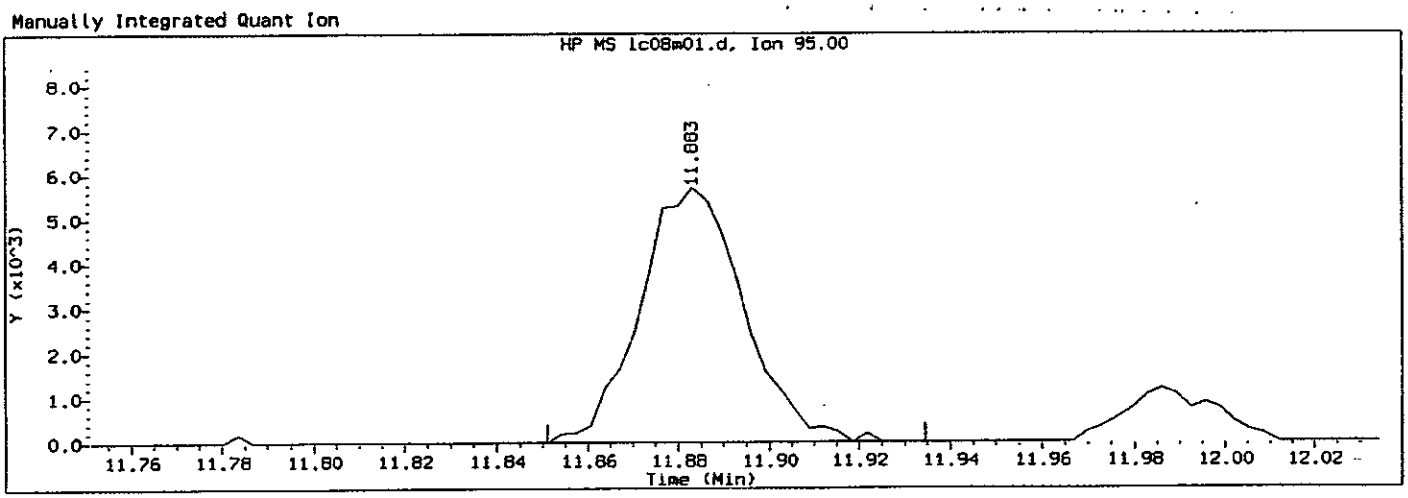
Original Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08m01.d, generated on 10/08/2009 at 20:12

PTL03 8379

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08m01.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 19:20 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260W
Calibration date and time: 08-OCT-2009 20:04
Date, time and analyst ID of latest file update: 08-Oct-2009 20:12 maz02012

Sample Name: 1PPB MDL Lab Sample ID: 1 PPB MDL

Compound Number : 119
Compound Name : 4-Bromofluorobenzene
Scan Number : 3204
Retention Time (minutes): 11.883
Quant Ion : 95
Area (flag) : 9042 M
Concentration (ug/L) : 0.9949
Integration start scan : 3193 Integration stop scan: 3219
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

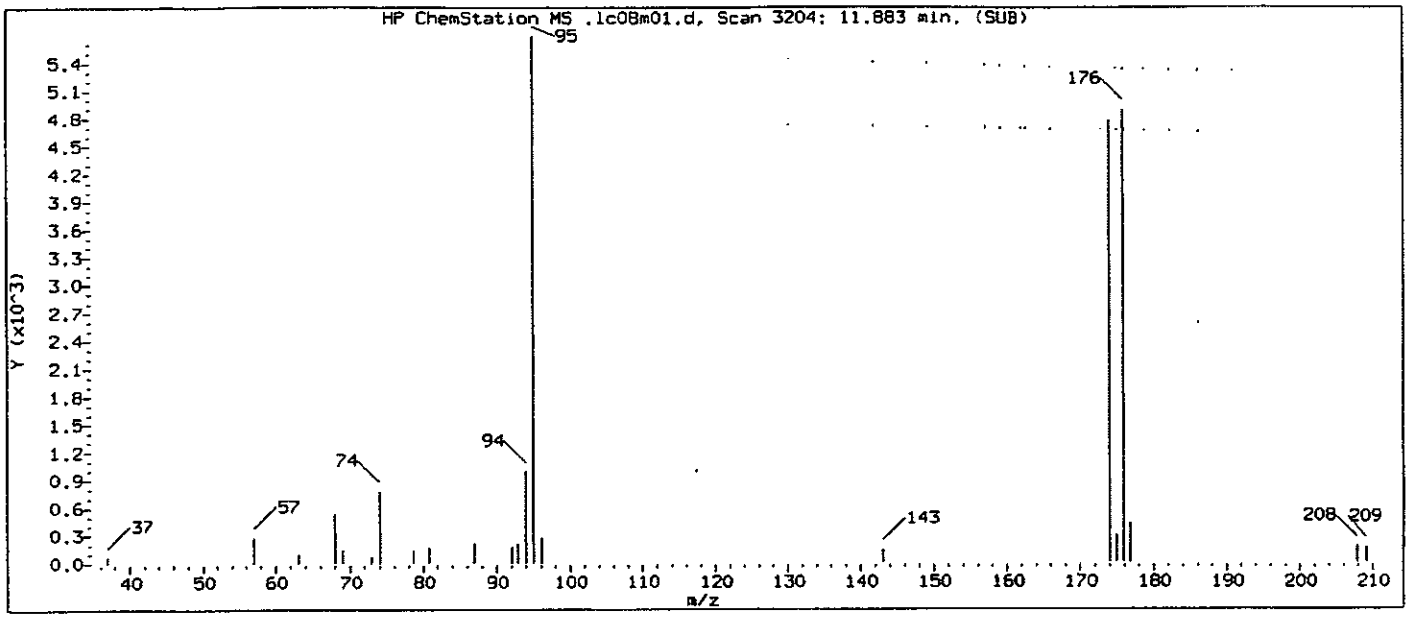
Analyst responsible for change: MS mm 10/8/09

GC/MS audit/management approval: 10-12-09

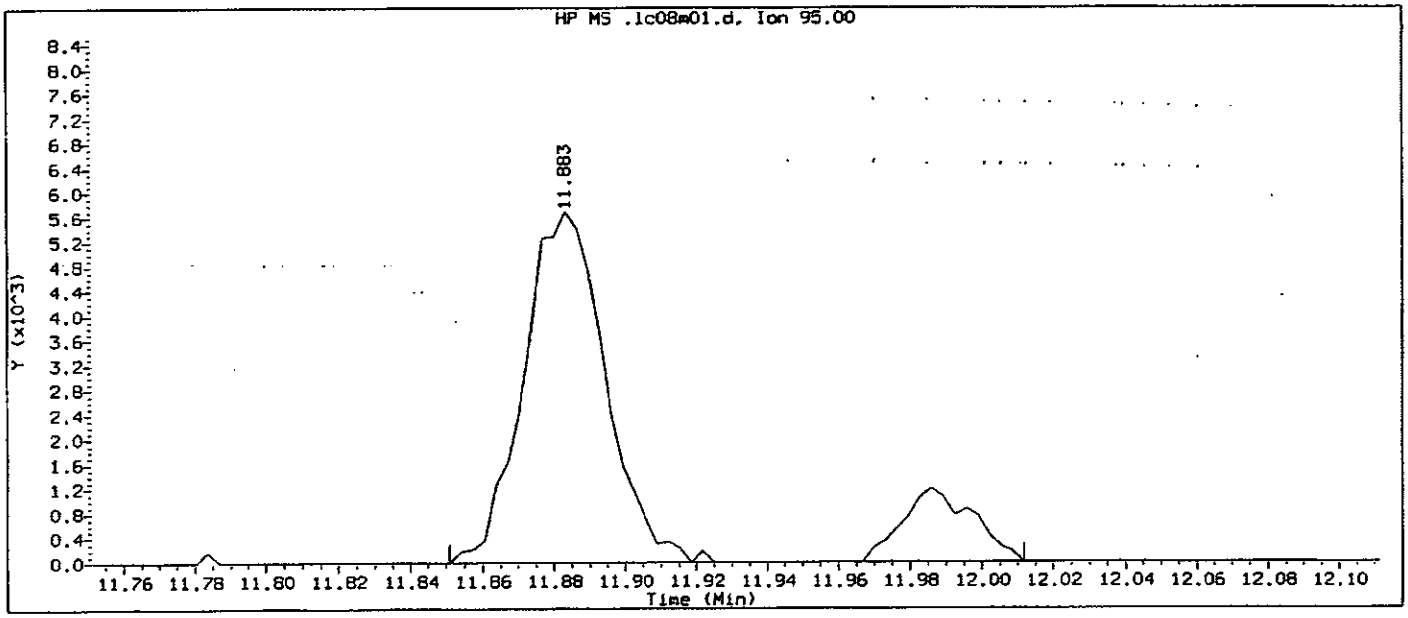
PTL83 8399

Manual Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08m01.d, generated on 10/08/2009 at 20:12

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08m01.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 19:20 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260W
Calibration date and time: 08-OCT-2009 19:17
Date, time and analyst ID of latest file update: 08-Oct-2009 19:39 Automation

Sample Name: 1PPB MDL Lab Sample ID: 1 PPB MDL

Compound Number : 119
Compound Name : 4-Bromofluorobenzene
Scan Number : 3204
Retention Time (minutes): 11.883
Quant Ion : 95
Area : 10674
Concentration (ug/L) : 1.1744
Integration start scan : 3193 Integration stop scan: 3243
Y at integration start : 0 Y at integration end: 0

PTL03 8381

Original Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08m01.d, generated on 10/08/2009 at 20:12

INITIAL CALIBRATION VERIFICATION

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09915 ICV Date: 10/08/09 Time: 19:42

Lab File ID: lc08v01.d Init. Calib. Date(s): 10/08/09 10/08/09

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

	COMPOUND	RRF	RRF	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	Dichlorodifluoromethane	0.4161	0.3232	15.53	20	-22	
#	Chloromethane	0.3593	0.3271	18.21	20	-9	#
*	Vinyl Chloride	0.3275	0.3087	18.85	20	-6	*
	Bromomethane	0.1697	0.1119	11.29	20	-44	
	Chloroethane	0.1567	0.1257	13.68	20	-32	
	Dichlorofluoromethane	0.4412	0.4139	18.76	20	-6	
	Trichlorofluoromethane	0.4378	0.4177	19.08	20	-5	
	Ethyl Ether	0.1587	0.2048	25.80	20	29	
	Freon 123a	0.2609	0.2452	18.80	20	-6	
	Acrolein	1.2961	1.3124	151.88	150	1	
*	1,1-Dichloroethene	0.2168	0.2339	21.57	20	8	*
	Freon 113	0.2539	0.2516	19.82	20	-1	
	Acetone	0.1149	0.1493	194.89	150	30	
	2-Propanol	0.8127	0.7681	141.76	150	-5	
	Methyl Iodide	0.4671	0.4383	18.76	20	-6	
	Carbon Disulfide	0.9058	0.8125	17.94	20	-10	
	Allyl Chloride	0.4691	0.5007	21.35	20	7	
	Methyl Acetate	0.3141	0.3358	21.38	20	7	
	Methylene Chloride	0.2953	0.2916	19.75	20	-1	
	t-Butyl Alcohol	1.1733	1.1604	197.81	200	-1	
	Acrylonitrile	0.1507	0.1581	104.90	100	5	
	trans-1,2-Dichloroethene	0.2676	0.2651	19.81	20	-1	
	Methyl Tertiary Butyl Ether	0.8698	0.8259	18.99	20	-5	
	n-Hexane	0.4178	0.3964	18.98	20	-5	
	1,2-Dichloroethene (total)	0.2750	0.2708	39.39	40	-2	
#	1,1-Dichloroethane	0.4934	0.4854	19.67	20	-2	#
	di-Isopropyl Ether	0.9882	0.9852	19.94	20	0	
	2-Chloro-1,3-Butadiene	0.4416	0.4402	19.94	20	0	
	Ethyl t-Butyl Ether	0.8489	0.8202	19.32	20	-3	
	cis-1,2-Dichloroethene	0.2825	0.2766	19.58	20	-2	
	2-Butanone	0.2087	0.2235	160.58	150	7	
	2,2-Dichloropropane	0.3762	0.3603	19.15	20	-4	
	Propionitrile	1.5050	1.5150	151.00	150	1	
	Methacrylonitrile	0.1574	0.1572	149.87	150	0	
	Bromochloromethane	0.1373	0.1383	20.14	20	1	
	Tetrahydrofuran	1.1236	1.2085	107.55	100	8	

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

PTL03 03382

INITIAL CALIBRATION VERIFICATION

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09915 ICV Date: 10/08/09 Time: 19:42

Lab File ID: lc08v01.d Init. Calib. Date(s): 10/08/09 10/08/09

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

	COMPOUND	RRF	RRF	ACTUAL CONC.	TRUE CONC.	% DRIFT	
*	Chloroform	0.4447	0.4366	19.64	20	-2	*
	1,1,1-Trichloroethane	0.4341	0.4370	20.13	20	1	
	Cyclohexane	0.5129	0.4832	18.84	20	-6	
	1,1-Dichloropropene	0.3734	0.3631	19.45	20	-3	
	Carbon Tetrachloride	0.3401	0.3276	19.26	20	-4	
	Isobutyl Alcohol	0.4335	0.4222	487.04	500	-3	
	Benzene	1.0976	1.0776	19.64	20	-2	
	1,2-Dichloroethane	0.3841	0.3792	19.74	20	-1	
	t-Amyl Methyl Ether	0.7892	0.7585	19.22	20	-4	
	n-Heptane	0.4277	0.4075	19.05	20	-5	
	n-Butanol	0.3392	0.3220	949.23	1000	-5	
	Trichloroethene	0.2686	0.2693	20.06	20	0	
	Methylcyclohexane	0.4435	0.4653	20.98	20	5	
*	1,2-Dichloropropane	0.2968	0.2912	19.62	20	-2	*
	Dibromomethane	0.1772	0.1721	19.42	20	-3	
	Methyl Methacrylate	0.2522	0.2407	19.08	20	-5	
	1,4-Dioxane	0.1034	0.0868	419.62	500	-16	
	Bromodichloromethane	0.3243	0.3088	19.05	20	-5	
	2-Nitropropane	0.0972	0.0840	19.83	20	-1	
	2-Chloroethyl Vinyl Ether	0.2170	0.2160	19.91	20	0	
	cis-1,3-Dichloropropene	0.4329	0.4196	19.39	20	-3	
	4-Methyl-2-Pentanone	0.4270	0.4255	99.65	100	0	
*	Toluene	0.8896	0.8875	19.95	20	0	*
	trans-1,3-Dichloropropene	0.5620	0.5520	19.65	20	-2	
	Ethyl Methacrylate	0.5667	0.5625	19.85	20	-1	
	1,1,2-Trichloroethane	0.3311	0.3296	19.90	20	0	
	Tetrachloroethene	0.3934	0.4035	20.51	20	3	
	1,3-Dichloropropane	0.6106	0.5987	19.61	20	-2	
	2-Hexanone	0.4357	0.4394	100.85	100	1	
	Dibromochloromethane	0.3706	0.3493	18.85	20	-6	
	1,2-Dibromoethane	0.3718	0.3634	19.55	20	-2	
#	Chlorobenzene	1.0106	1.0178	20.14	20	1	#
	1,1,1,2-Tetrachloroethane	0.3442	0.3295	19.15	20	-4	
*	Ethylbenzene	1.7207	1.7078	19.85	20	-1	*
	m+p-Xylene	0.6733	0.6764	40.18	40	0	
	Xylene (Total)	0.6524	0.6689	60.89	60	1	

PTL03 0383

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

INITIAL CALIBRATION VERIFICATION

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09915 ICV Date: 10/08/09 Time: 19:42

Lab File ID: lc08v01.d Init. Calib. Date(s): 10/08/09 10/08/09

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

	COMPOUND	RRF	RRF	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	o-Xylene	0.6314	0.6538	20.71	20	4	
	Styrene	1.0352	1.0655	20.59	20	3	
#	Bromoform	0.2706	0.2558	18.90	20	-6	#
	Isopropylbenzene	1.6458	1.6262	19.76	20	-1	
	Cyclohexanone	0.3740	0.3268	436.95	500	-13	
#	1,1,2,2-Tetrachloroethane	0.9388	0.9293	19.80	20	-1	#
	Bromobenzene	0.7674	0.7793	20.31	20	2	
	1,2,3-Trichloropropane	0.2749	0.2687	19.54	20	-2	
	trans-1,4-Dichloro-2-Butene	0.3138	0.3208	102.23	100	2	
	n-Propylbenzene	0.8487	0.8386	19.76	20	-1	
	2-Chlorotoluene	0.7261	0.7223	19.90	20	-1	
	1,3,5-Trimethylbenzene	1.2267	1.2258	19.99	20	0	
	4-Chlorotoluene	0.7556	0.7566	20.03	20	0	
	tert-Butylbenzene	0.5541	0.5580	20.14	20	1	
	Pentachloroethane	0.4709	0.4676	19.86	20	-1	
	1,2,4-Trimethylbenzene	2.5489	2.5284	19.84	20	-1	
	sec-Butylbenzene	0.6401	0.6340	19.81	20	-1	
	1,3-Dichlorobenzene	1.4224	1.4368	20.20	20	1	
	p-Isopropyltoluene	0.7197	0.7265	20.19	20	1	
	1,4-Dichlorobenzene	1.5061	1.4939	19.84	20	-1	
	1,2,3-Trimethylbenzene	1.1377	1.1466	20.16	20	1	
	Benzyl Chloride	1.8595	1.7350	18.66	20	-7	
	1,3-Diethylbenzene	1.5743	1.6036	20.37	20	2	
	1,4-Diethylbenzene	1.5551	1.5807	20.33	20	2	
	n-Butylbenzene	1.3039	1.2941	19.85	20	-1	
	1,2-Dichlorobenzene	1.3934	1.3853	19.88	20	-1	
	1,2-Diethylbenzene	1.2944	1.3026	20.13	20	1	
	1,2-Dibromo-3-Chloropropane	0.2028	0.1853	18.28	20	-9	
	1,2,4-Trichlorobenzene	1.0653	1.0138	19.03	20	-5	
	Hexachlorobutadiene	0.5757	0.4941	17.16	20	-14	
	Naphthalene	3.2156	3.0590	19.03	20	-5	
	1,2,3-Trichlorobenzene	1.0598	0.9977	18.83	20	-6	
	2-Methylnaphthalene	1.8202	1.5430	16.95	20	-15	

Average %Drift 5

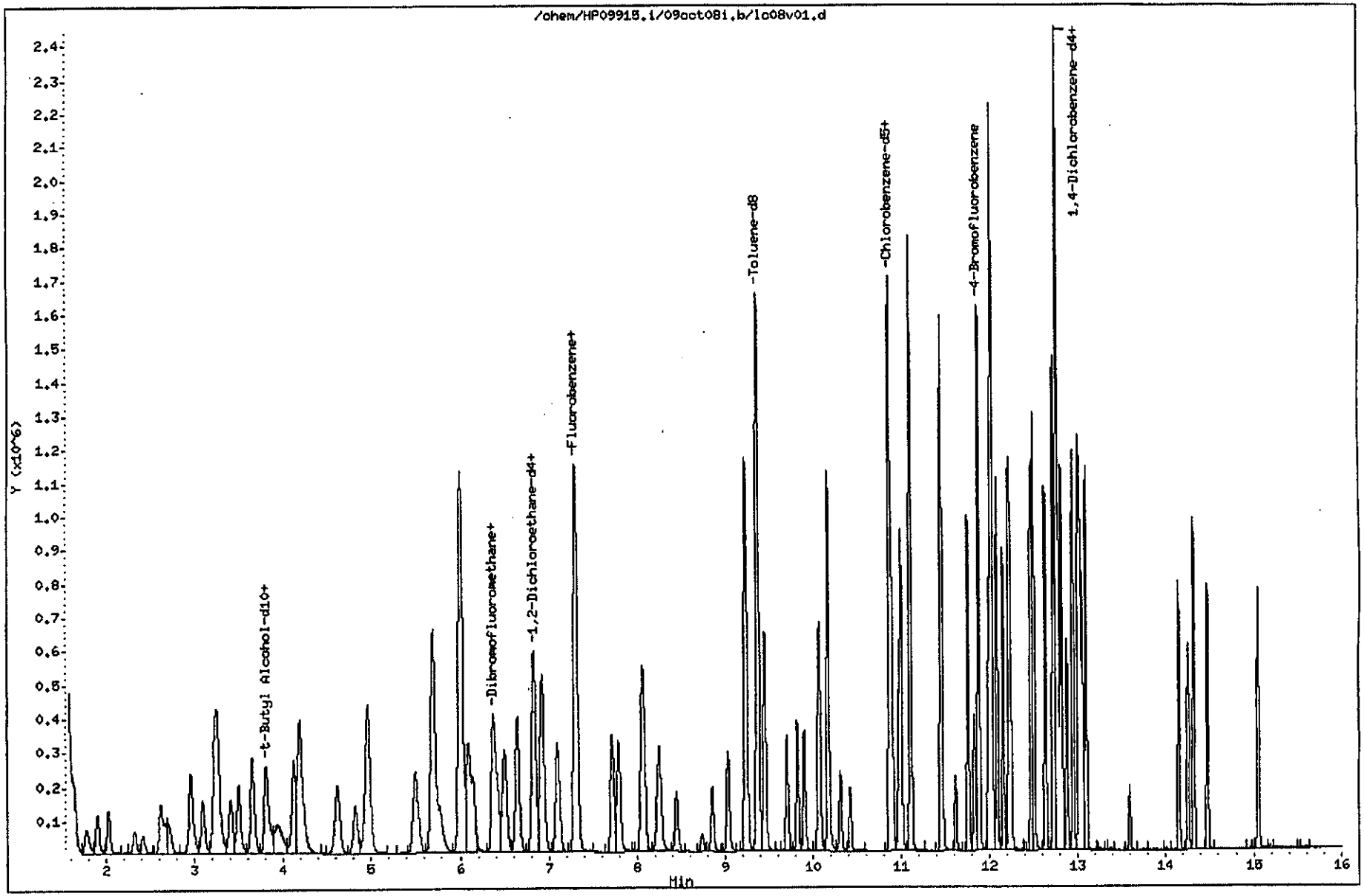
PTL83 0384

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

Data File: /chem/HP09915.i/09oct08i.b/lc08v01.d
Date : 08-OCT-2009 19:42
Client ID: LCSL01
Sample Info: LCSL01;LCSL01;1;3;LCS;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: MAZ02012
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/lc08v01.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 19:42 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260W
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:37 maz02012

Sample Name: LCSL01 Lab Sample ID: LCSL01

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.774	85	163751	15.534
3) Chloromethane	(1)	1.900	50	165709	18.206
4) Vinyl Chloride	(1)	2.022	62	156393	18.848
8) Bromomethane	(1)	2.324	94	56706	11.288
9) Chloroethane	(1)	2.417	64	63668	13.681
10) Dichlorofluoromethane	(1)	2.617	67	209689	18.763
11) Trichlorofluoromethane	(1)	2.707	101	211625M	19.081
15) Ethyl Ether	(1)	2.951	59	103743	25.802
16) Freon 123a	(1)	2.954	67	124250	18.796
18) Acrolein	(4)	3.089	56	204511	151.885
19) 1,1-Dichloroethene	(1)	3.221	96	118483	21.570
20) Freon 113	(1)	3.247	101	127468	19.821
21) Acetone	(1)	3.260	43	567233	194.886
22) 2-Propanol	(4)	3.421	45	119688M	141.758
23) Methyl Iodide	(1)	3.401	142	222038	18.765
24) Carbon Disulfide	(1)	3.498	76	411612	17.939
27) Allyl Chloride	(1)	3.646	41	253651	21.347
28) Methyl Acetate	(1)	3.665	43	170124	21.384
29) Methylene Chloride	(1)	3.806	84	147737	19.748
30) *t-Butyl Alcohol-d10	(4)	3.835	65	259712	250.000
31) t-Butyl Alcohol	(4)	3.958	59	241104	197.813
32) Acrylonitrile	(1)	4.122	53	400550	104.904
33) trans-1,2-Dichloroethene	(1)	4.189	96	134292	19.811
34) Methyl Tertiary Butyl Ether	(1)	4.202	73	418402	18.989
35) n-Hexane	(1)	4.617	57	200838	18.978
42) 1,2-Dichloroethene (total)	(1)		96	274418	39.394
36) 1,1-Dichloroethane	(1)	4.819	63	245911	19.675
40) di-Isopropyl Ether	(1)	4.948	45	499142	19.941
41) 2-Chloro-1,3-Butadiene	(1)	4.967	53	223016	19.938
43) Ethyl t-Butyl Ether	(1)	5.501	59	415529M	19.323
44) cis-1,2-Dichloroethene	(1)	5.684	96	140126	19.583
45) 2-Butanone	(1)	5.700	43	849150	160.580
46) 2,2-Dichloropropane	(1)	5.694	77	182530	19.154
47) Propionitrile	(4)	5.781	54	236080	151.002

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/lc08v01.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 19:42 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260W
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:37 maz02012

Sample Name: LCSL01 Lab Sample ID: LCSL01

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
50) Methacrylonitrile	(1)	6.009	67	597501	149.865
51) Bromochloromethane	(1)	6.028	128	70045	20.138
52) Tetrahydrofuran	(4)	6.096	71	125545	107.552
53) Chloroform	(1)	6.154	83	221215	19.638
57) 1,1,1-Trichloroethane	(1)	6.414	97	221378	20.133
60) Cyclohexane	(1)	6.498	56	244818	18.845
61) 1,1-Dichloropropene	(1)	6.646	75	183952	19.446
62) Carbon Tetrachloride	(1)	6.649	117	165965	19.261
63) Isobutyl Alcohol	(4)	6.826	41	219322	487.041
67) Benzene	(1)	6.919	78	545924	19.636
68) 1,2-Dichloroethane	(1)	6.941	62	192114	19.742
71) t-Amyl Methyl Ether	(1)	7.099	73	384265	19.221
72) *Fluorobenzene	(1)	7.305	96	1266572	50.000
74) n-Heptane	(1)	7.324	43	206467	19.055
75) n-Butanol	(4)	7.719	56	334501	949.227
76) Trichloroethene	(1)	7.797	95	136452	20.058
77) Methylcyclohexane	(1)	8.064	83	235743	20.983
79) 1,2-Dichloropropane	(1)	8.086	63	147554	19.622
80) Dibromomethane	(1)	8.234	93	87179	19.418
81) Methyl Methacrylate	(1)	8.263	69	121923	19.082
82) 1,4-Dioxane	(4)	8.263	88	45080	419.618
84) Bromodichloromethane	(1)	8.453	83	156449	19.046
85) 2-Nitropropane	(1)	8.739	41	42566	19.829
86) 2-Chloroethyl Vinyl Ether	(1)	8.858	63	109442	19.913
87) cis-1,3-Dichloropropene	(1)	9.035	75	212581	19.387
89) 4-Methyl-2-Pentanone	(1)	9.240	43	1077765	99.646
93) Toluene	(2)	9.456	92	327702	19.951
94) trans-1,3-Dichloropropene	(2)	9.703	75	203845	19.645
95) Ethyl Methacrylate	(2)	9.822	69	207716	19.852
96) 1,1,2-Trichloroethane	(2)	9.906	97	121696	19.904
97) Tetrachloroethene	(2)	10.067	166	149007	20.513
98) 1,3-Dichloropropane	(2)	10.080	76	221062	19.608
100) 2-Hexanone	(2)	10.176	43	811288	100.849
102) Dibromochloromethane	(2)	10.314	129	128966	18.848

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/lc08v01.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 19:42 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260W
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:37 maz02012

Sample Name: LCSL01 Lab Sample ID: LCSL01

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
103) 1,2-Dibromoethane	(2)	10.424	107	134206	19.550
104)*Chlorobenzene-d5	(2)	10.874	117	923147	50.000
105) Chlorobenzene	(2)	10.899	112	375839	20.142
107) 1,1,1,2-Tetrachloroethane	(2)	10.973	131	121671	19.146
108) Ethylbenzene	(2)	11.002	91	630638	19.851
109) m+p-Xylene	(2)	11.108	106	499547	40.183
110) Xylene (Total)	(2)		106	740981	60.894
111) o-Xylene	(2)	11.452	106	241434	20.711
112) Styrene	(2)	11.462	104	393453	20.586
113) Bromoform	(2)	11.616	173	94442	18.899
115) Isopropylbenzene	(2)	11.758	105	600477	19.761
117) Cyclohexanone	(4)	11.829	55	169762	436.949
120) 1,1,2,2-Tetrachloroethane	(3)	11.989	83	196408	19.797
122) Bromobenzene	(3)	12.005	156	164703	20.309
123) 1,2,3-Trichloropropane	(3)	12.025	110	56782	19.544
124) trans-1,4-Dichloro-2-Butene	(3)	12.031	53	339030	102.231
125) n-Propylbenzene	(3)	12.086	120	177234	19.761
126) 2-Chlorotoluene	(3)	12.157	126	152669	19.897
127) 1,3,5-Trimethylbenzene	(3)	12.218	120	259080	19.986
128) 4-Chlorotoluene	(3)	12.240	126	159913	20.027
130) tert-Butylbenzene	(3)	12.472	134	117938	20.141
131) Pentachloroethane	(3)	12.488	167	98822	19.857
132) 1,2,4-Trimethylbenzene	(3)	12.504	105	534401	19.839
134) sec-Butylbenzene	(3)	12.632	134	133990	19.808
135) 1,3-Dichlorobenzene	(3)	12.719	146	303668	20.202
136) p-Isopropyltoluene	(3)	12.735	134	153554	20.188
137)*1,4-Dichlorobenzene-d4	(3)	12.768	152	528389	50.000
138) 1,4-Dichlorobenzene	(3)	12.784	146	315735	19.838
139) 1,2,3-Trimethylbenzene	(3)	12.819	120	242334	20.156
140) Benzyl Chloride	(3)	12.877	91	366700	18.660
141) 1,3-Diethylbenzene	(3)	12.948	119	338937	20.372
142) 1,4-Diethylbenzene	(3)	13.009	119	334097	20.329
143) n-Butylbenzene	(3)	13.028	92	273512	19.849
144) 1,2-Dichlorobenzene	(3)	13.057	146	292785	19.883

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct08i.b/1c08v01.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 19:42 Analyst ID: MAZ02012

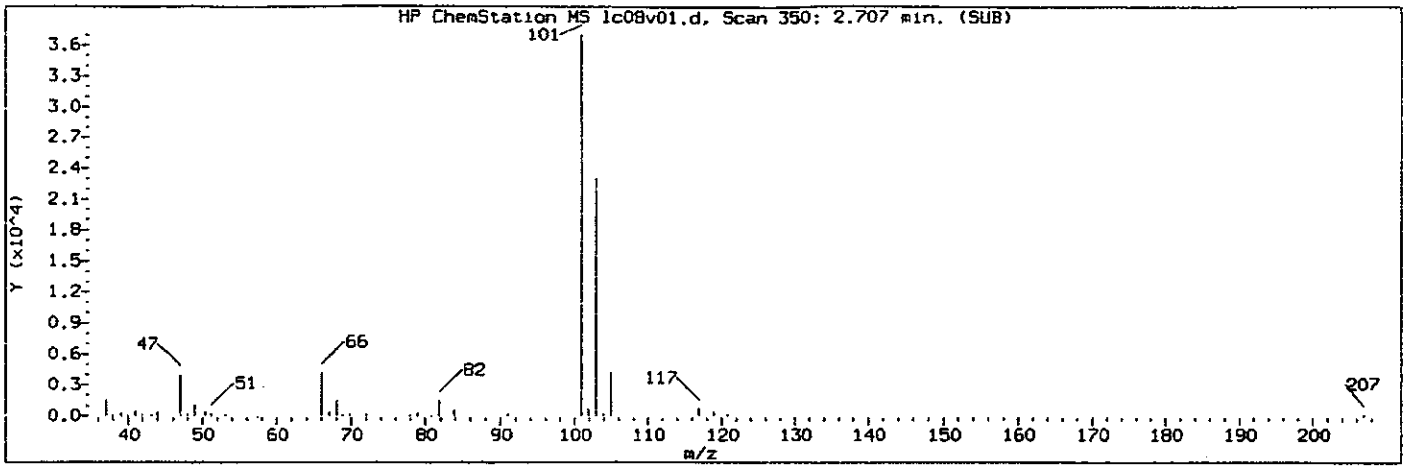
Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260W
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 18:37 maz02012

Sample Name: LCSL01 Lab Sample ID: LCSL01

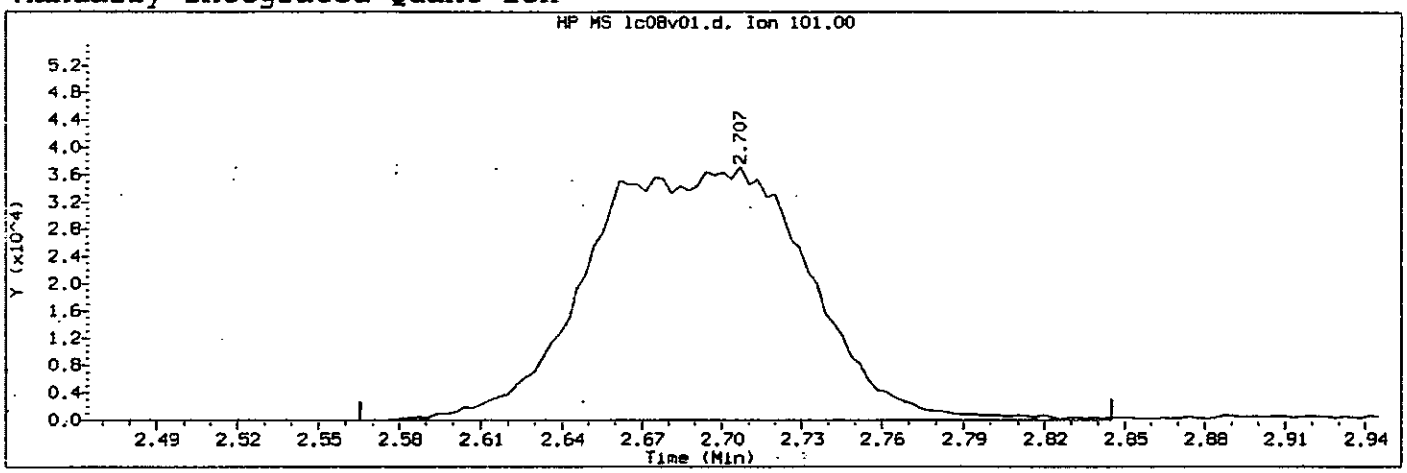
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
145) 1,2-Diethylbenzene	(3)	13.095	119	275312	20.127
146) 1,2-Dibromo-3-Chloropropane	(3)	13.591	75	39160	18.275
147) 1,2,4-Trichlorobenzene	(3)	14.150	180	214274	19.033
148) Hexachlorobutadiene	(3)	14.256	225	104433	17.164
149) Naphthalene	(3)	14.320	128	646537	19.026
150) 1,2,3-Trichlorobenzene	(3)	14.475	180	210862	18.827
152) 2-Methylnaphthalene	(3)	15.054	142	326113	16.954
54)$Dibromofluoromethane	(1)	6.375	113	335097	51.685
64)$1,2-Dichloroethane-d4	(1)	6.835	102	77557	49.537
91)$Toluene-d8	(2)	9.375	98	1391420	54.072
119)$4-Bromofluorobenzene	(2)	11.880	95	478985	52.472

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08v01.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 19:42 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260W
Calibration date and time: 09-OCT-2009 08:08
Date, time and analyst ID of latest file update: 12-Oct-2009 18:37 maz02012

Sample Name: LCSL01 Lab Sample ID: LCSL01

Compound Number	:	11
Compound Name	:	Trichlorofluoromethane
Scan Number	:	350
Retention Time (minutes)	:	2.707
Quant Ion	:	101
Area (flag)	:	211625 M
Concentration (ug/L)	:	19.0811
Integration start scan	:	305 Integration stop scan: 392
Y at integration start	:	0 Y at integration end: 0

Reason for manual integration (circle one): missed peak (improper integration)

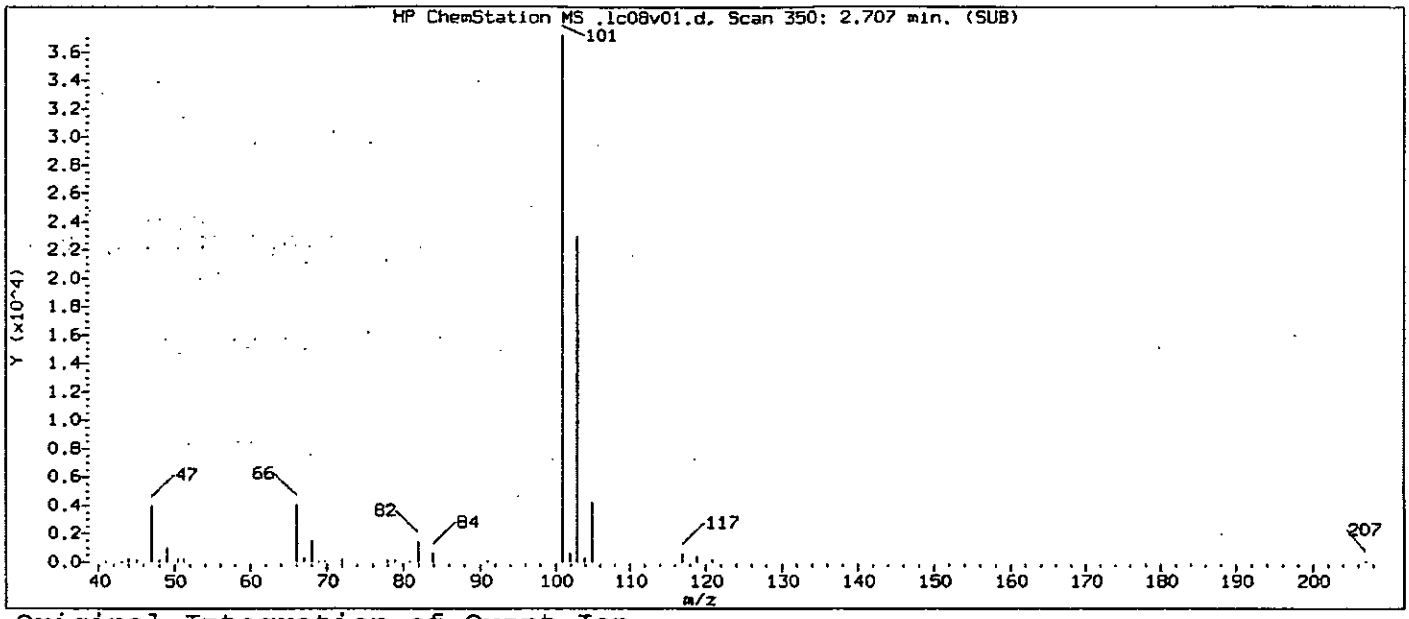
Analyst responsible for change: MS 2m 10/12/09

GC/MS audit/management approval: 10-12-09

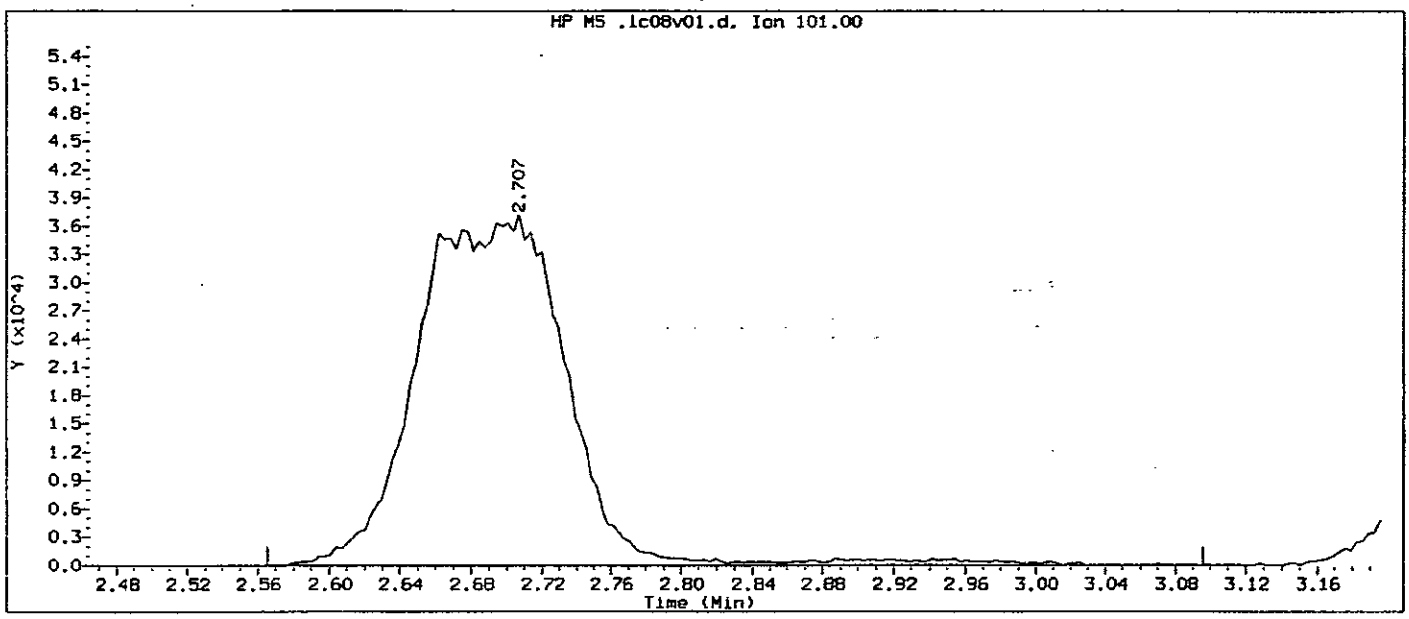
PTL03 0398

Manual Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08v01.d, generated on 10/12/2009 at 18:37

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08v01.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 19:42 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260W
Calibration date and time: 08-OCT-2009 19:17
Date, time and analyst ID of latest file update: 08-Oct-2009 20:01 Automation

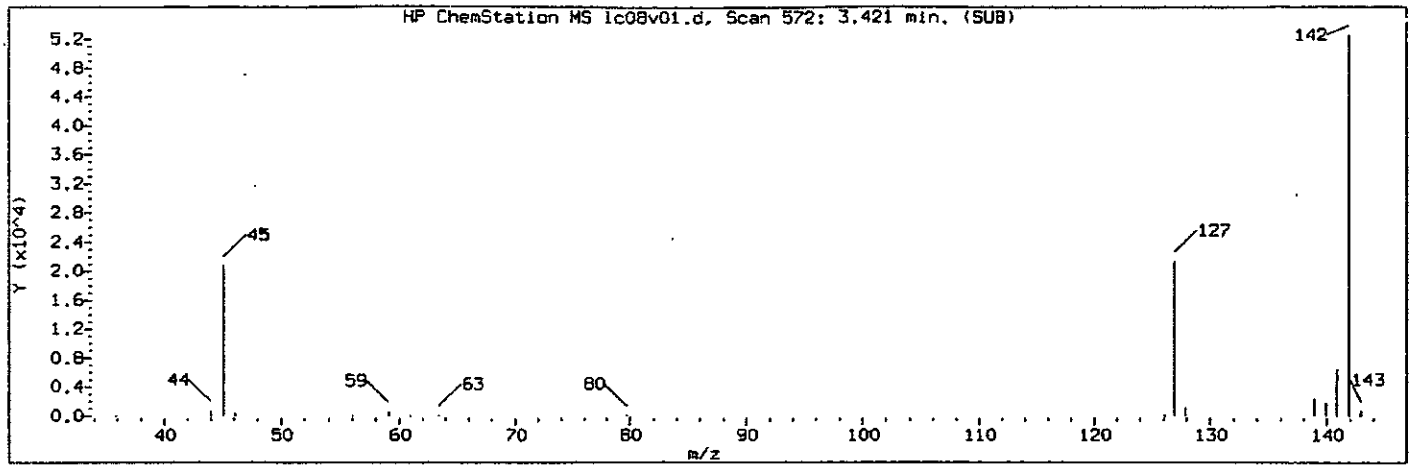
Sample Name: LCSL01 Lab Sample ID: LCSL01

Compound Number	:	11
Compound Name	:	Trichlorofluoromethane
Scan Number	:	350
Retention Time (minutes)	:	2.707
Quant Ion	:	101
Area	:	216120
Concentration (ug/L)	:	19.2396
Integration start scan	:	305 Integration stop scan: 470
Y at integration start	:	0 Y at integration end: 0

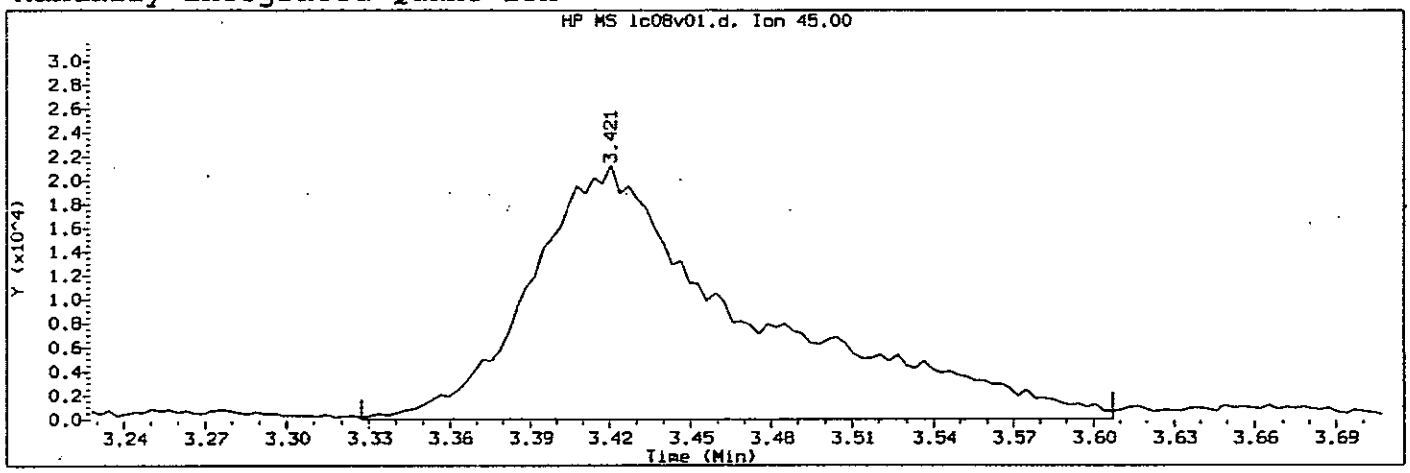
PTL03 0391

Original Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08v01.d, generated on 10/12/2009 at 18:37

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08v01.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 19:42 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260W
Calibration date and time: 09-OCT-2009 08:08
Date, time and analyst ID of latest file update: 12-Oct-2009 18:37 maz02012

Sample Name: LCSL01 Lab Sample ID: LCSL01

Compound Number : 22
Compound Name : 2-Propanol
Scan Number : 572
Retention Time (minutes): 3.421
Quant Ion : 45
Area (flag) : 119688 M
Concentration (ug/L) : 141.7582
Integration start scan : 542 Integration stop scan: 629
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

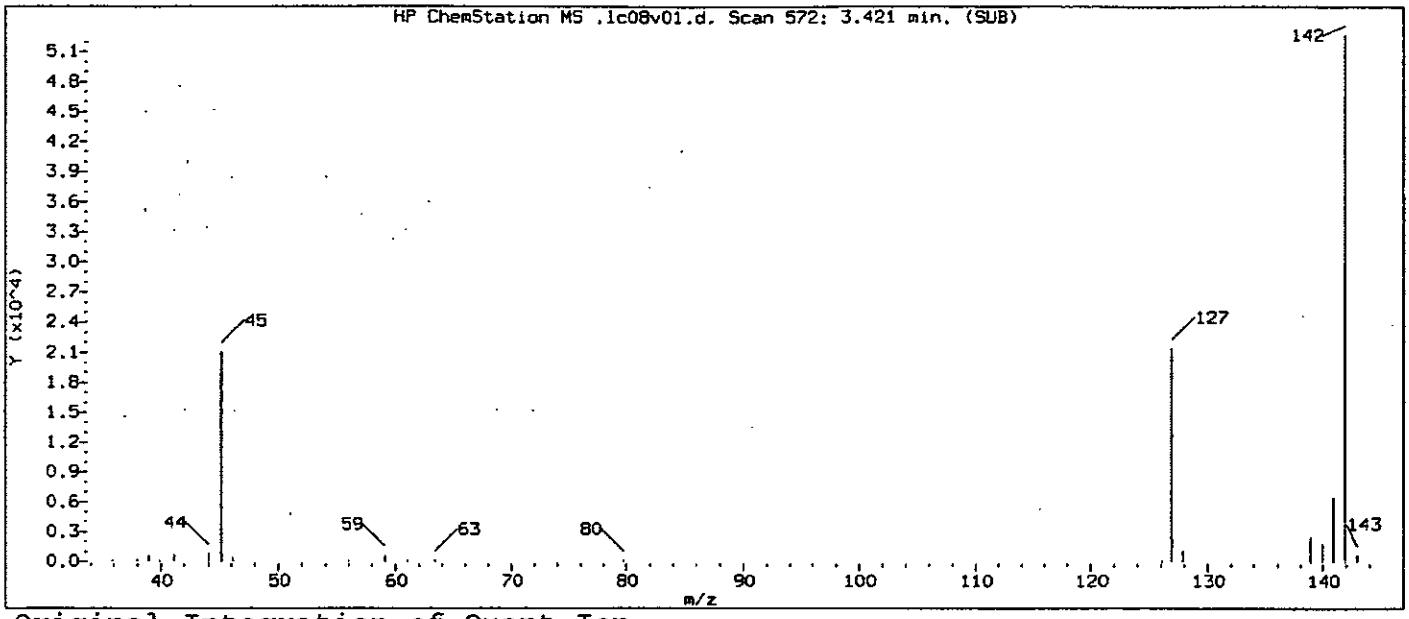
Analyst responsible for change: MS Eon 10/12/09

GC/MS audit/management approval: 10-12-09

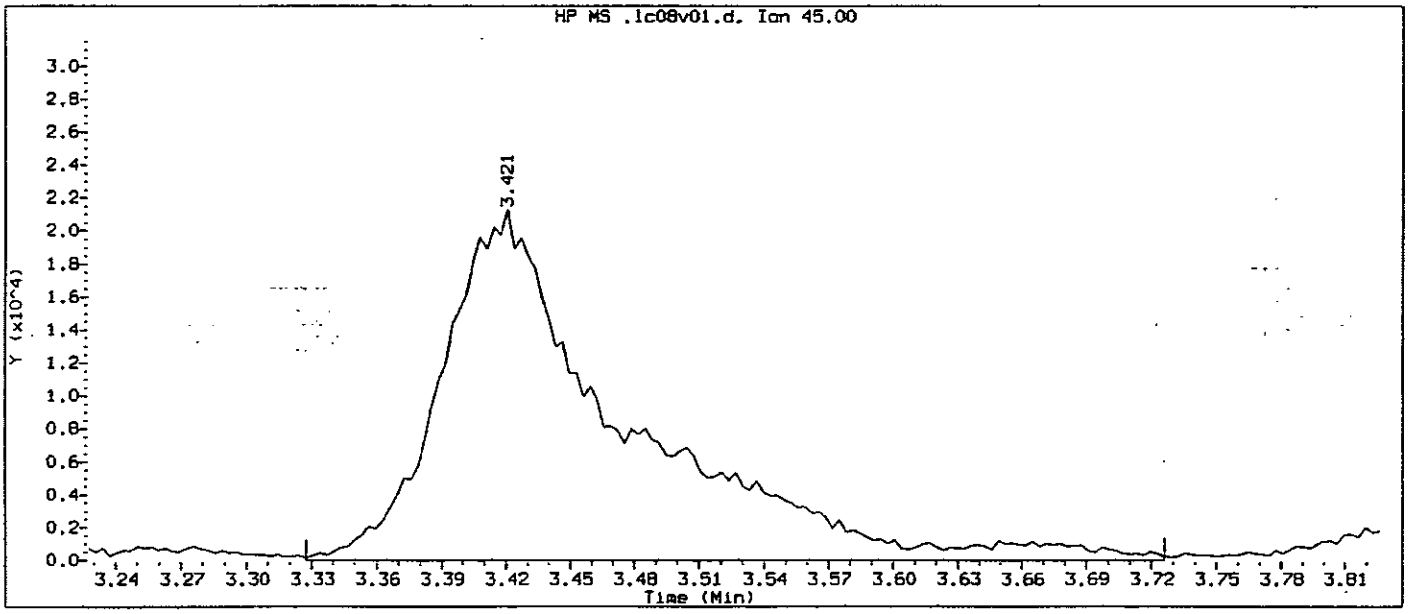
PTL83 8392

Manual Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08v01.d, generated on 10/12/2009 at 18:37

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08v01.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 19:42 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260W
Calibration date and time: 08-OCT-2009 19:17
Date, time and analyst ID of latest file update: 08-Oct-2009 20:01 Automation

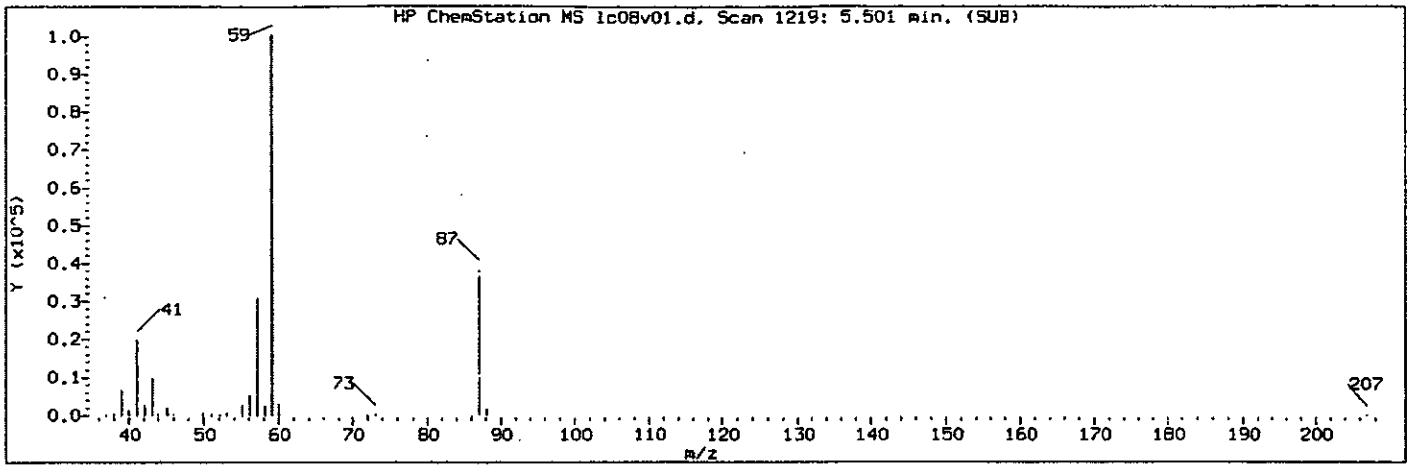
Sample Name: LCSL01 Lab Sample ID: LCSL01

Compound Number	: 22
Compound Name	: 2-Propanol
Scan Number	: 572
Retention Time (minutes)	: 3.421
Quant Ion	: 45
Area	: 125093
Concentration (ug/L)	: 146.9959
Integration start scan	: 542 Integration stop scan: 666
Y at integration start	: 0 Y at integration end: 0

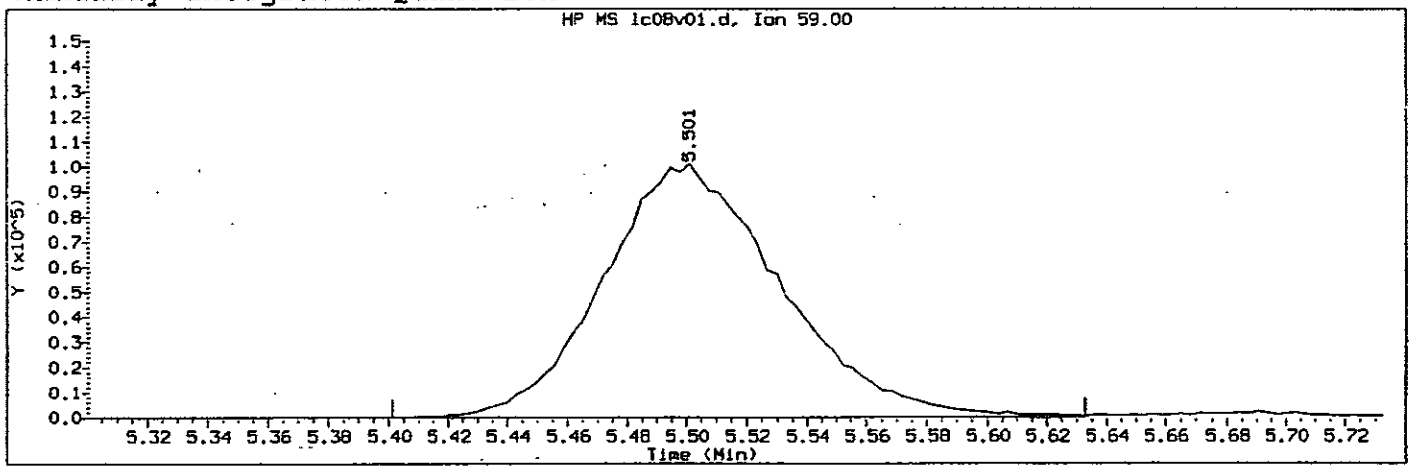
PTL83 0393

Original Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08v01.d, generated on 10/12/2009 at 18:37

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08v01.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 19:42 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260W
Calibration date and time: 09-OCT-2009 08:08
Date, time and analyst ID of latest file update: 12-Oct-2009 18:37 maz02012

Sample Name: LCSL01 Lab Sample ID: LCSL01

Compound Number : 43
Compound Name : Ethyl t-Butyl Ether
Scan Number : 1219
Retention Time (minutes): 5.501
Quant Ion : 59
Area (flag) : 415529 M
Concentration (ug/L) : 19.3225
Integration start scan : 1187 Integration stop scan: 1259
Y at integration start : 0 Y at integration end: 0

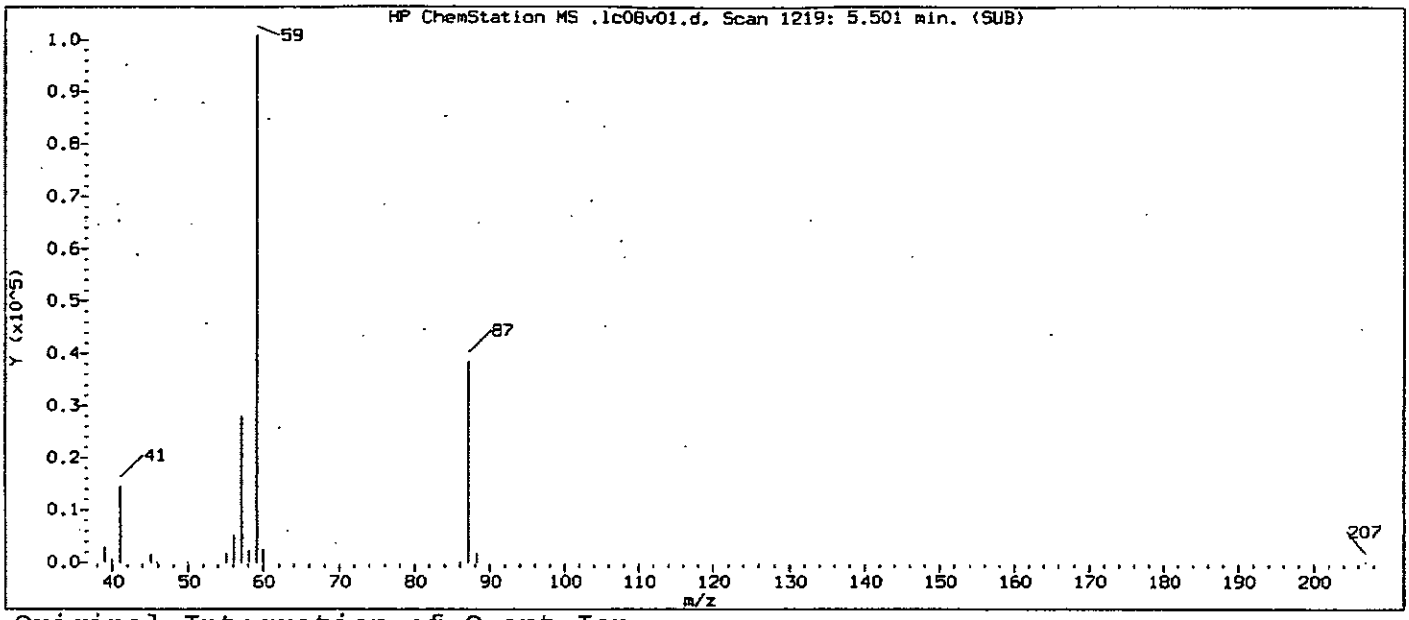
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: MS Zon 10/12/01

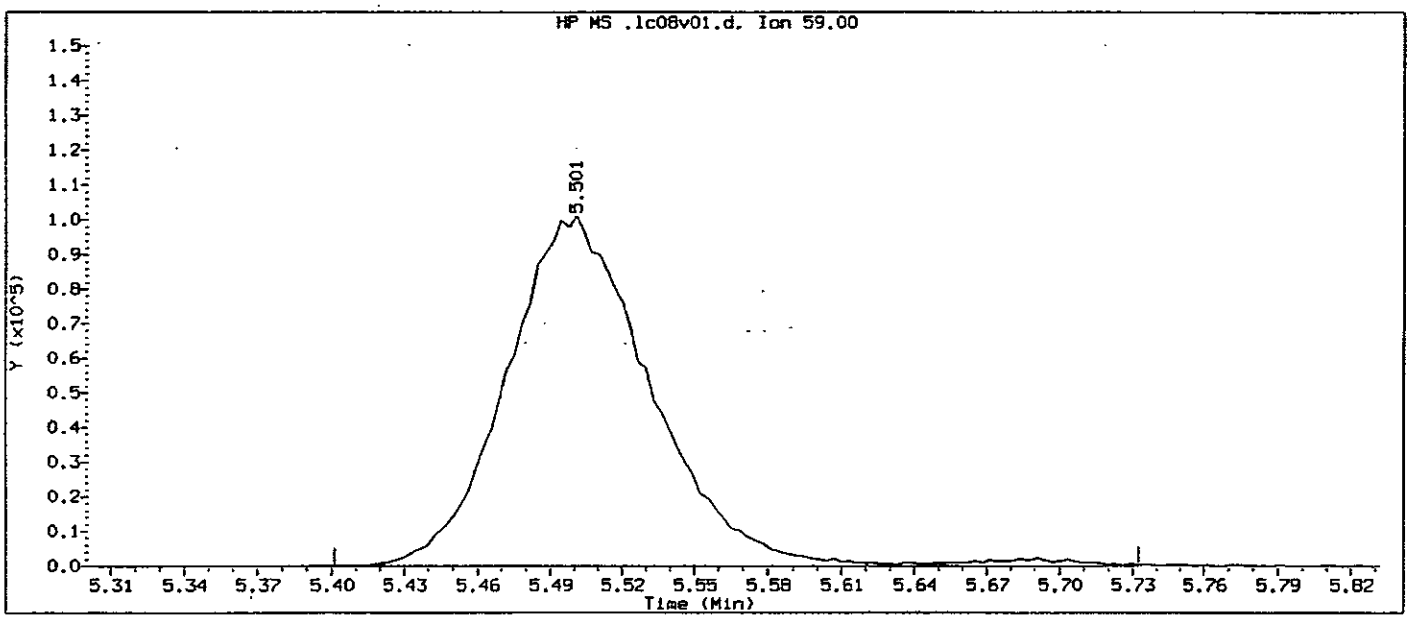
GC/MS audit/management approval: [signature] 10-12-09 PTL83 8394

Manual Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08v01.d, generated on 10/12/2009 at 18:37

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct08i.b/lc08v01.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 19:42 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct08i.b/L8260W.m Sublist used: 8260W
Calibration date and time: 08-OCT-2009 19:17
Date, time and analyst ID of latest file update: 08-Oct-2009 20:01 Automation

Sample Name: LCSL01 Lab Sample ID: LCSL01

Compound Number	: 43
Compound Name	: Ethyl t-Butyl Ether
Scan Number	: 1219
Retention Time (minutes)	: 5.501
Quant Ion	: 59
Area	: 422412
Concentration (ug/L)	: 19.6426
Integration start scan	: 1187 Integration stop scan: 1290
Y at integration start	: 0 Y at integration end: 0

PTL83 0395

Original Integration Report for data file /chem/HP09915.i/09oct08i.b/lc08v01.d, generated on 10/12/2009 at 18:37

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09915 Calibration Date: 10/07/09 Time: 17:08

Lab File ID: lc07c02.d Init. Calib. Date(s): 09/29/09 09/29/09

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	Dichlorodifluoromethane	0.4051	0.3973	49.04	50	-2	
#	Chloromethane	0.3703	0.4141	55.91	50	12	#
*	Vinyl Chloride	0.3363	0.3762	55.92	50	12	*
	Bromomethane	0.1688	0.1955	58.72	50	17	
	Chloroethane	0.1549	0.1870	60.35	50	21	
	Dichlorofluoromethane	0.3358	0.5343	79.56	50	59	
	Trichlorofluoromethane	0.4212	0.4777	56.72	50	13	
	Ethyl Ether	0.1817	0.1975	54.34	50	9	
	Freon 123a	0.2013	0.3009	74.76	50	50	
	Acrolein	1.7647	1.7068	535.59	500	7	
*	1,1-Dichloroethene	0.1896	0.2238	59.02	50	18	*
	Freon 113	0.2132	0.2424	56.84	50	14	
	Acetone	0.1102	0.1236	112.13	100	12	
	2-Propanol	0.7023	1.0066	358.32	250	43	
	Methyl Iodide	0.3920	0.4625	58.98	50	18	
	Carbon Disulfide	0.7931	0.8762	55.24	50	10	
	Allyl Chloride	0.3841	0.4768	62.08	50	24	
	Methyl Acetate	0.3170	0.3244	51.17	50	2	
	Methylene Chloride	0.2716	0.2793	51.41	50	3	
	t-Butyl Alcohol	1.0837	1.4822	341.95	250	37	
	Acrylonitrile	0.1600	0.1537	48.03	50	-4	
	trans-1,2-Dichloroethene	0.2382	0.2710	56.90	50	14	
	Methyl Tertiary Butyl Ether	0.8461	0.8897	52.58	50	5	
	n-Hexane	0.3871	0.3717	48.00	50	-4	
	1,2-Dichloroethene (total)	0.2467	0.2792	113.21	100	13	
#	1,1-Dichloroethane	0.4535	0.4985	54.96	50	10	#
	di-Isopropyl Ether	0.9657	1.0171	52.67	50	5	
	2-Chloro-1,3-Butadiene	0.4108	0.4531	55.14	50	10	
	Ethyl t-Butyl Ether	0.8266	0.8733	52.83	50	6	
	cis-1,2-Dichloroethene	0.2552	0.2874	56.32	50	13	
	2-Butanone	0.2262	0.2164	95.71	100	-4	
	2,2-Dichloropropane	0.3462	0.3829	55.29	50	11	
	Propionitrile	1.5985	1.6987	265.68	250	6	
	Methacrylonitrile	0.1589	0.1634	128.53	125	3	
	Bromochloromethane	0.1223	0.1465	59.89	50	20	
	Tetrahydrofuran	1.2191	1.2255	100.53	100	1	

PTL03 0396

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09915 Calibration Date: 10/07/09 Time: 17:08

Lab File ID: lc07c02.d Init. Calib. Date(s): 09/29/09 09/29/09

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
*	Chloroform	0.4109	0.4624	56.27	50	13	*
	1,1,1-Trichloroethane	0.3943	0.4172	52.90	50	6	
	Cyclohexane	0.4609	0.4759	51.63	50	3	
	Cyclohexane(mz 84)	0.3624	0.3804	52.49	50	5	
	Cyclohexane(mz 69)	0.1324	0.1370	51.71	50	3	
	1,1-Dichloropropene	0.3391	0.3756	55.37	50	11	
	Carbon Tetrachloride	0.3030	0.3493	57.64	50	15	
	Isobutyl Alcohol	0.4521	0.5732	792.43	625	27	
	Benzene	0.9940	1.1184	56.26	50	13	
	1,2-Dichloroethane	0.3798	0.4055	53.38	50	7	
	1,2-Dichloroethane(mz 98)	0.0303	0.0335	55.35	50	11	
	t-Amyl Methyl Ether	0.7689	0.8133	52.89	50	6	
	n-Heptane	0.4232	0.3693	43.64	50	-13	
	n-Butanol	0.3576	0.4552	1591.40	1250	27	
	Trichloroethene	0.2458	0.2782	56.57	50	13	
	Methylcyclohexane	0.3832	0.4335	56.57	50	13	
	Methylcyclohexane(mz98)	0.1723	0.1968	57.11	50	14	
*	1,2-Dichloropropane	0.2774	0.3081	55.53	50	11	*
	Dibromomethane	0.1718	0.1887	54.90	50	10	
	Methyl Methacrylate	0.2527	0.2735	54.12	50	8	
	1,4-Dioxane	0.0947	0.1308	863.50	625	38	
	Bromodichloromethane	0.3069	0.3449	56.19	50	12	
	2-Nitropropane	0.1043	0.1041	99.83	100	0	
	2-Chloroethyl Vinyl Ether	0.2119	0.2214	52.26	50	5	
	cis-1,3-Dichloropropene	0.4026	0.4511	56.03	50	12	
	4-Methyl-2-Pentanone	0.4590	0.4491	97.86	100	-2	
*	Toluene	0.8173	0.9082	55.56	50	11	*
	trans-1,3-Dichloropropene	0.5478	0.5990	54.67	50	9	
	Ethyl Methacrylate	0.5665	0.6403	56.51	50	13	
	1,1,2-Trichloroethane	0.3189	0.3562	55.85	50	12	
	Tetrachloroethene	0.3552	0.4029	56.72	50	13	
	1,3-Dichloropropane	0.5905	0.6572	55.65	50	11	
	2-Hexanone	0.4945	0.4584	92.70	100	-7	
	Dibromochloromethane	0.3519	0.4064	57.74	50	15	
	1,2-Dibromoethane	0.3566	0.4013	56.27	50	13	
#	Chlorobenzene	0.9363	1.0656	56.90	50	14	#

PTL03 0397

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09915 Calibration Date: 10/07/09 Time: 17:08

Lab File ID: lc07c02.d Init. Calib. Date(s): 09/29/09 09/29/09

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	1,1,1,2-Tetrachloroethane	0.3230	0.3760	58.20	50	16	
*	Ethylbenzene	1.6060	1.8248	56.81	50	14	*
	m+p-Xylene	0.6219	0.7116	57.21	50	14	
	Xylene (Total)	0.6084	0.7024	115.46	100	15	
	o-Xylene	0.5950	0.6932	58.25	50	17	
	Styrene	0.9810	1.1540	58.82	50	18	
#	Bromoform	0.2644	0.3084	58.31	50	17	#
	Isopropylbenzene	1.5562	1.7642	56.68	50	13	
	Cyclohexanone	0.3479	0.3770	677.18	625	8	
#	1,1,2,2-Tetrachloroethane	0.9462	1.0624	56.14	50	12	#
	Bromobenzene	0.7195	0.8238	57.24	50	14	
	1,2,3-Trichloropropane	0.2860	0.3186	55.70	50	11	
	trans-1,4-Dichloro-2-Butene	0.3403	0.3317	121.83	125	-3	
	n-Propylbenzene	0.7803	0.8765	56.16	50	12	
	2-Chlorotoluene	0.6734	0.7581	56.29	50	13	
	1,3,5-Trimethylbenzene	1.1486	1.3025	56.70	50	13	
	4-Chlorotoluene	0.7026	0.7998	56.92	50	14	
	tert-Butylbenzene	0.5260	0.5925	56.33	50	13	
	Pentachloroethane	0.4535	0.5283	58.25	50	17	
	1,2,4-Trimethylbenzene	2.4401	2.7428	56.20	50	12	
	sec-Butylbenzene	0.6003	0.6653	55.42	50	11	
	1,3-Dichlorobenzene	1.3514	1.5384	56.92	50	14	
	p-Isopropyltoluene	0.6864	0.7694	56.05	50	12	
	1,4-Dichlorobenzene	1.4315	1.6176	56.50	50	13	
	1,2,3-Trimethylbenzene	1.0991	1.2405	56.43	50	13	
	Benzyl Chloride	1.8846	2.0996	55.70	50	11	
	1,3-Diethylbenzene	1.5338	1.7026	55.50	50	11	
	1,4-Diethylbenzene	1.5316	1.6836	54.96	50	10	
	n-Butylbenzene	1.2607	1.3642	54.10	50	8	
	1,2-Dichlorobenzene	1.3278	1.4982	56.42	50	13	
	1,2-Diethylbenzene	1.2682	1.4150	55.79	50	12	
	1,2-Dibromo-3-Chloropropane	0.2155	0.2361	54.77	50	10	
	1,2,4-Trichlorobenzene	1.0443	1.1500	55.06	50	10	
	Hexachlorobutadiene	0.4976	0.5097	51.22	50	2	
	Naphthalene	3.2870	3.6480	55.49	50	11	
	1,2,3-Trichlorobenzene	1.0303	1.1469	55.66	50	11	

PTL03 0398

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09915 Calibration Date: 10/07/09 Time: 17:08

Lab File ID: lc07c02.d Init. Calib. Date(s): 09/29/09 09/29/09

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
2-Methylnaphthalene	2.0161	1.8995	47.11	50	-6
Dibromofluoromethane	0.2409	0.2469	51.23	50	2
Dibromofluoromethane(mz111)	0.2458	0.2520	51.26	50	3
1,2-Dichloroethane-d4	0.0582	0.0583	50.05	50	0
1,2-Dichloroethane-d4(mz65)	0.3167	0.3070	48.47	50	-3
1,2-Dichloroethane-d4(mz104)	0.0372	0.0369	49.59	50	-1
Toluene-d8	1.3062	1.3496	51.66	50	3
Toluene-d8(mz100)	0.8416	0.8636	51.31	50	3
4-Bromofluorobenzene	0.4801	0.4852	50.53	50	1
4-Bromofluorobenzene(mz174)	0.4073	0.4294	52.72	50	5

Average %Drift 12

PTL03 0399

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

Lancaster Laboratories

Continuing Calibration Internal Standard Check

Initial Calibration Standards:

/chem/HP09915.i/09sep29c.b/ls29i06.d
/chem/HP09915.i/09sep29c.b/ls29i05.d
/chem/HP09915.i/09sep29c.b/ls29i04.d
/chem/HP09915.i/09sep29c.b/ls29i03.d
/chem/HP09915.i/09sep29c.b/ls29i02.d
/chem/HP09915.i/09sep29c.b/ls29i01.d

File /chem/HP09915.i/09sep29c.b/ls29i03.d is Mid Level Calibration Standard used for comparison.

Current Continuing Calibration Standard:

/chem/HP09915.i/09oct07b.b/lc07c02.d

RT Summary

Internal Standard Name	File ID: lc07c02.d	ICAL RT	In Spec
t-Butyl Alcohol-d10	3.839	3.838	Yes
Fluorobenzene	7.305	7.314	Yes
Chlorobenzene-d5	10.874	10.874	Yes
1,4-Dichlorobenzene-d4	12.768	12.767	Yes

A "No" indicates the retention time is greater than 30 seconds from the referenced ICAL standard.

Area Summary

Internal Standard Name	File ID: lc07c02.d	ICAL Area	Low Limit	High Limit	In Spec
t-Butyl Alcohol-d10	223320	277592	138796	555184	Yes
Fluorobenzene	1127848	1269794	634897	2539588	Yes
Chlorobenzene-d5	836220	897271	448636	1794542	Yes
1,4-Dichlorobenzene-d4	486213	516484	258242	1032968	Yes

A "No" indicates the internal standard area is outside acceptable QC limits.

PTL03 0488

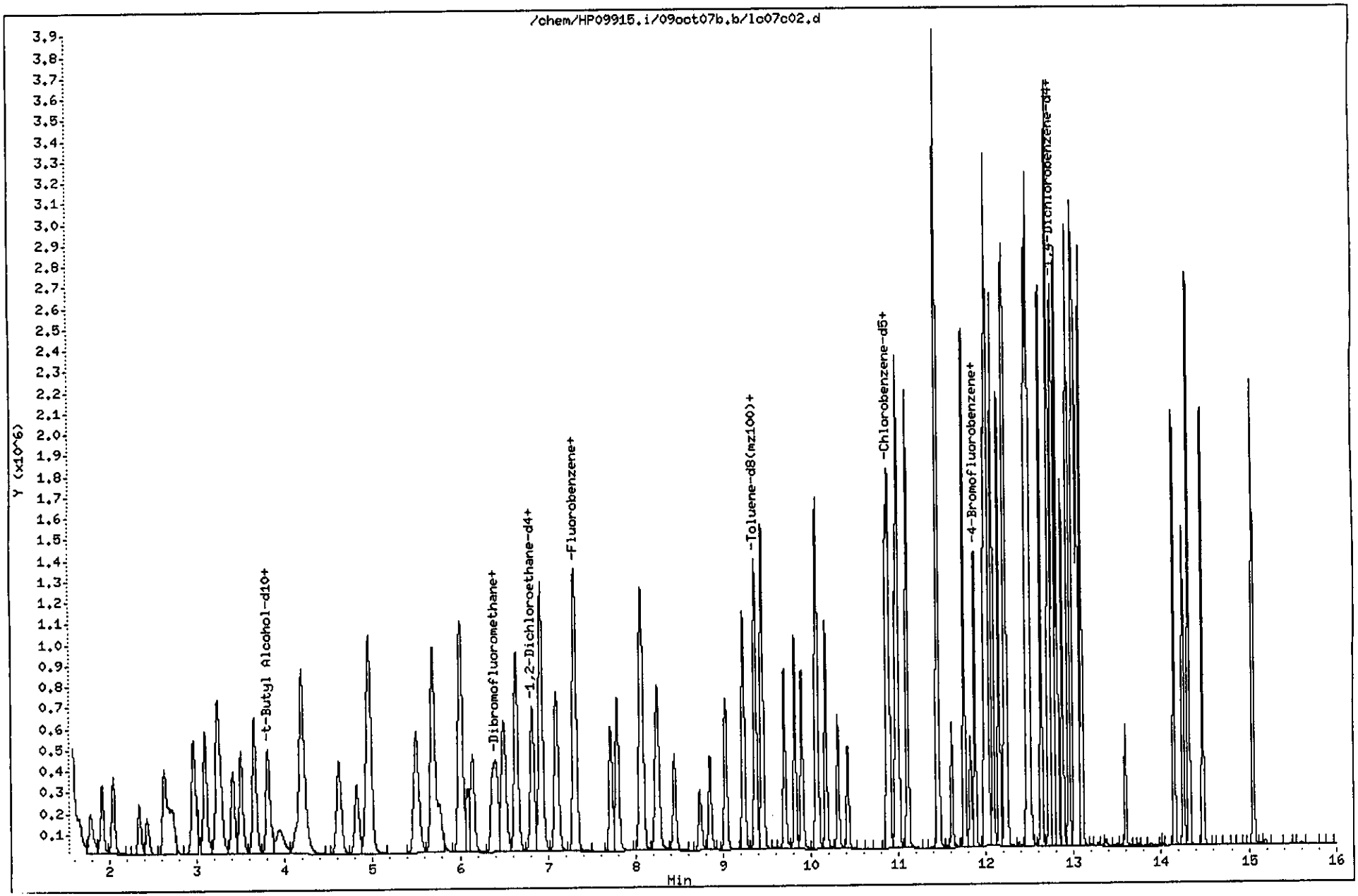
Comments: _____

Data File: /chem/HP09915.i/09oct07b.b/lc07c02.d
Date : 07-OCT-2009 17:08
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;1;2;;;;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: NPR02223
Column diameter: 0.25

NPR2223
10/7/09



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct07b.b/1c07c02.d Instrument ID: HP09915.i
Injection date and time: 07-OCT-2009 17:08 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 07-Oct-2009 17:32 npr02223

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.784	85	448095	49.037
3) Chloromethane	(1)	1.916	50	466987M	55.908
4) Vinyl Chloride	(1)	2.044	62	424241	55.923
8) Bromomethane	(1)	2.343	94	220446	58.718
9) Chloroethane	(1)	2.430	64	210872	60.349
10) Dichlorofluoromethane	(1)	2.626	67	602584	79.561
11) Trichlorofluoromethane	(1)	2.716	101	538816	56.716
15) Ethyl Ether	(1)	2.954	59	222696	54.338
16) Freon 123a	(1)	2.974	67	339385	74.760
18) Acrolein	(4)	3.096	56	762341	535.595
19) 1,1-Dichloroethene	(1)	3.231	96	252448	59.019
20) Freon 113	(1)	3.257	101	273410	56.839
21) Acetone	(1)	3.260	43	278776	112.133
22) 2-Propanol	(4)	3.411	45	224798	358.321
23) Methyl Iodide	(1)	3.411	142	521627	58.985
24) Carbon Disulfide	(1)	3.501	76	988190	55.237
27) Allyl Chloride	(1)	3.652	41	537803	62.078
28) Methyl Acetate	(1)	3.662	43	365864	51.171
29) Methylene Chloride	(1)	3.806	84	314990	51.412
30)*t-Butyl Alcohol-d10	(4)	3.839	65	223320	250.000
31) t-Butyl Alcohol	(4)	3.941	59	331010	341.946
32) Acrylonitrile	(1)	4.128	53	173382	48.029
33) trans-1,2-Dichloroethene	(1)	4.196	96	305672	56.896
34) Methyl Tertiary Butyl Ether	(1)	4.202	73	1003415	52.578
35) n-Hexane	(1)	4.623	57	419169	48.001
42) 1,2-Dichloroethene (total)	(1)		96	629863	113.215
36) 1,1-Dichloroethane	(1)	4.819	63	562273M	54.964
40) di-Isopropyl Ether	(1)	4.951	45	1147178	52.665
41) 2-Chloro-1,3-Butadiene	(1)	4.964	53	511020	55.142
43) Ethyl t-Butyl Ether	(1)	5.501	59	984979M	52.829
44) cis-1,2-Dichloroethene	(1)	5.687	96	324191	56.319
45) 2-Butanone	(1)	5.700	43	488237	95.708
46) 2,2-Dichloropropane	(1)	5.700	77	431849	55.294
47) Propionitrile	(4)	5.774	54	379355	265.675

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct07b.b/lc07c02.d Instrument ID: HP09915.i
Injection date and time: 07-OCT-2009 17:08 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 07-Oct-2009 17:32 npr02223

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
50) Methacrylonitrile	(1)	6.003	67	460651	128.527
51) Bromochloromethane	(1)	6.022	128	165226	59.889
52) Tetrahydrofuran	(4)	6.089	71	109475	100.526
53) Chloroform	(1)	6.150	83	521552	56.269
57) 1,1,1-Trichloroethane	(1)	6.414	97	470550	52.901
60) Cyclohexane	(1)	6.501	56	536764	51.628
59) Cyclohexane (mz 84)	(1)	6.504	84	429011	52.486
58) Cyclohexane (mz 69)	(1)	6.507	69	154488	51.715
61) 1,1-Dichloropropene	(1)	6.639	75	423582	55.373
62) Carbon Tetrachloride	(1)	6.652	117	393902	57.638
63) Isobutyl Alcohol	(4)	6.819	41	320003	792.428
67) Benzene	(1)	6.919	78	1261429	56.259
68) 1,2-Dichloroethane	(1)	6.938	62	457374	53.381
69) 1,2-Dichloroethane (mz 98)	(1)	6.935	98	37806	55.348
71) t-Amyl Methyl Ether	(1)	7.099	73	917315	52.889
72)*Fluorobenzene	(1)	7.305	96	1127848	50.000
74) n-Heptane	(1)	7.321	43	416565	43.636
75) n-Butanol	(4)	7.719	56	508296	1591.398
76) Trichloroethene	(1)	7.797	95	313719	56.572
77) Methylcyclohexane	(1)	8.060	83	488964	56.574
78) Methylcyclohexane (mz98)	(1)	8.060	98	221909	57.108
79) 1,2-Dichloropropane	(1)	8.080	63	347465	55.530
80) Dibromomethane	(1)	8.234	93	212796	54.904
81) Methyl Methacrylate	(1)	8.256	69	308443	54.119
82) 1,4-Dioxane	(4)	8.269	88	73052	863.502
84) Bromodichloromethane	(1)	8.449	83	388976	56.188
85) 2-Nitropropane	(1)	8.739	41	234841	99.835
86) 2-Chloroethyl Vinyl Ether	(1)	8.854	63	249739	52.261
87) cis-1,3-Dichloropropene	(1)	9.035	75	508794	56.031
89) 4-Methyl-2-Pentanone	(1)	9.240	43	1013082	97.856
93) Toluene	(2)	9.453	92	759475	55.565
94) trans-1,3-Dichloropropene	(2)	9.703	75	500871	54.671
95) Ethyl Methacrylate	(2)	9.825	69	535438	56.510
96) 1,1,2-Trichloroethane	(2)	9.899	97	297885	55.854

PTL03 0483

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct07b.b/1c07c02.d Instrument ID: HP09915.i
Injection date and time: 07-OCT-2009 17:08 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 07-Oct-2009 17:32 npr02223

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
97) Tetrachloroethene	(2)	10.063	166	336920	56.724
98) 1,3-Dichloropropane	(2)	10.079	76	549592	55.648
100) 2-Hexanone	(2)	10.176	43	766647	92.701
102) Dibromochloromethane	(2)	10.311	129	339850	57.738
103) 1,2-Dibromoethane	(2)	10.420	107	335581	56.265
104) *Chlorobenzene-d5	(2)	10.874	117	836220	50.000
105) Chlorobenzene	(2)	10.899	112	891088	56.904
107) 1,1,1,2-Tetrachloroethane	(2)	10.973	131	314400	58.203
108) Ethylbenzene	(2)	11.002	91	1525905	56.811
109) m+p-Xylene	(2)	11.108	106	595017	57.208
110) Xylene (Total)	(2)		106	1174646	115.458
111) o-Xylene	(2)	11.452	106	579629	58.250
112) Styrene	(2)	11.462	104	964982	58.816
113) Bromoform	(2)	11.616	173	257879	58.309
115) Isopropylbenzene	(2)	11.761	105	1475292	56.685
117) Cyclohexanone	(4)	11.832	55	210457	677.183
120) 1,1,2,2-Tetrachloroethane	(3)	11.989	83	516562	56.144
122) Bromobenzene	(3)	12.005	156	400537	57.245
123) 1,2,3-Trichloropropane	(3)	12.025	110	154920	55.697
124) trans-1,4-Dichloro-2-Butene	(3)	12.031	53	403229	121.835
125) n-Propylbenzene	(3)	12.089	120	426179	56.164
126) 2-Chlorotoluene	(3)	12.160	126	368618	56.291
127) 1,3,5-Trimethylbenzene	(3)	12.221	120	633302	56.701
128) 4-Chlorotoluene	(3)	12.240	126	388881	56.915
130) tert-Butylbenzene	(3)	12.475	134	288097	56.327
131) Pentachloroethane	(3)	12.491	167	256890	58.250
132) 1,2,4-Trimethylbenzene	(3)	12.507	105	1333598	56.202
134) sec-Butylbenzene	(3)	12.636	134	323469	55.416
135) 1,3-Dichlorobenzene	(3)	12.722	146	748004	56.920
136) p-Isopropyltoluene	(3)	12.735	134	374101	56.050
137) *1,4-Dichlorobenzene-d4	(3)	12.768	152	486213	50.000
138) 1,4-Dichlorobenzene	(3)	12.787	146	786491	56.498
139) 1,2,3-Trimethylbenzene	(3)	12.819	120	603123	56.430
140) Benzyl Chloride	(3)	12.877	91	1020859	55.704

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct07b.b/1c07c02.d Instrument ID: HP09915.i
Injection date and time: 07-OCT-2009 17:08 Analyst ID: NPR02223

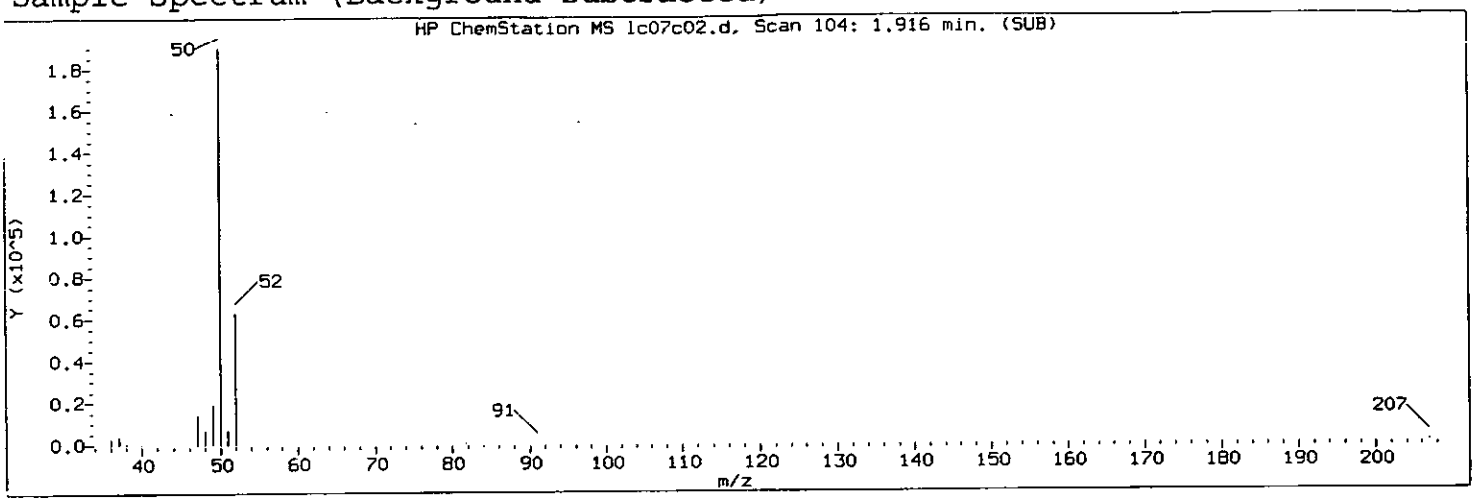
Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 07-Oct-2009 17:32 npr02223

Sample Name: VSTD050 Lab Sample ID: VSTD050

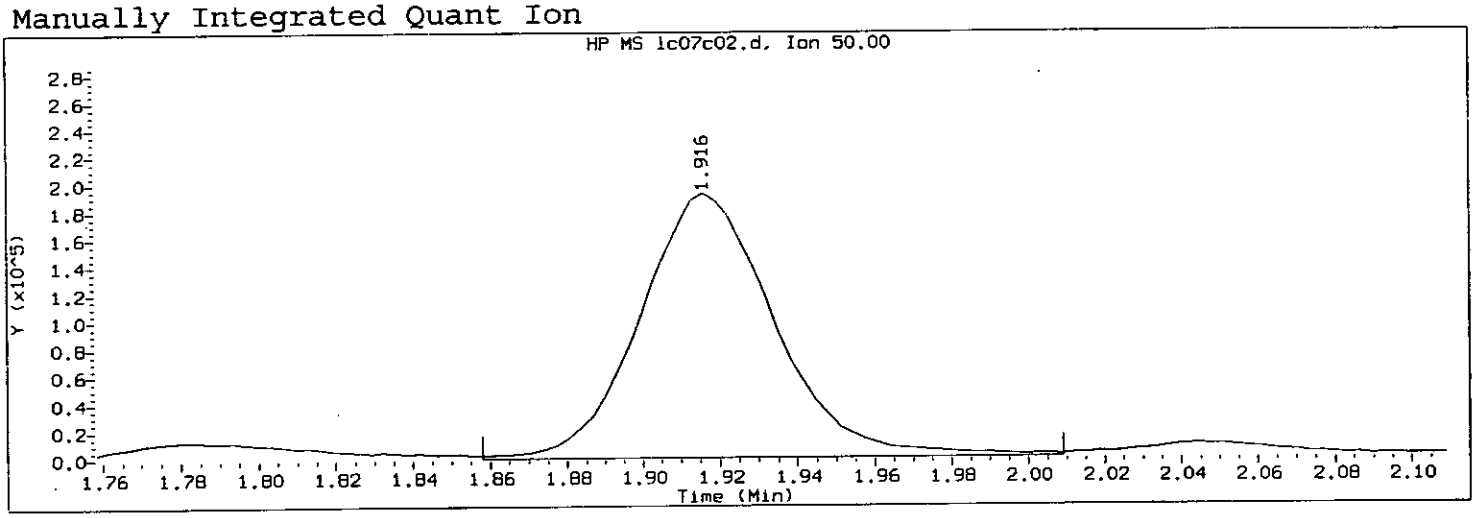
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
141) 1,3-Diethylbenzene	(3)	12.951	119	827802	55.500
142) 1,4-Diethylbenzene	(3)	13.012	119	818591	54.963
143) n-Butylbenzene	(3)	13.031	92	663284	54.104
144) 1,2-Dichlorobenzene	(3)	13.057	146	728456	56.416
145) 1,2-Diethylbenzene	(3)	13.099	119	687994	55.787
146) 1,2-Dibromo-3-Chloropropane	(3)	13.594	75	114798	54.770
147) 1,2,4-Trichlorobenzene	(3)	14.153	180	559122	55.056
148) Hexachlorobutadiene	(3)	14.256	225	247842	51.221
149) Naphthalene	(3)	14.320	128	1773716	55.492
150) 1,2,3-Trichlorobenzene	(3)	14.478	180	557640	55.656
152) 2-Methylnaphthalene	(3)	15.054	142	923584	47.109
54)$Dibromofluoromethane	(1)	6.372	113	278436	51.233
55)$Dibromofluoromethane(mz111)	(1)	6.369	111	284192	51.259
64)$1,2-Dichloroethane-d4	(1)	6.832	102	65755	50.051
65)$1,2-Dichloroethane-d4(mz65)	(1)	6.832	65	346305	48.469
66)$1,2-Dichloroethane-d4(mz104)	(1)	6.835	104	41601	49.587
91)$Toluene-d8	(2)	9.372	98	1128525	51.661
90)$Toluene-d8(mz100)	(2)	9.372	100	722135	51.305
119)$4-Bromofluorobenzene	(2)	11.883	95	405758	50.532
118)$4-Bromofluorobenzene(mz174)	(2)	11.883	174	359087	52.717

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct07b.b/lc07c02.d Instrument ID: HP09915.i
Injection date and time: 07-OCT-2009 17:08 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 07-OCT-2009 17:32
Date, time and analyst ID of latest file update: 07-Oct-2009 17:32 npr02223

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 3
Compound Name : Chloromethane
Scan Number : 104
Retention Time (minutes): 1.916
Quant Ion : 50
Area (flag) : 466987 M
Concentration (ug/L) : 55.9084
Integration start scan : 85 Integration stop scan: 132
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

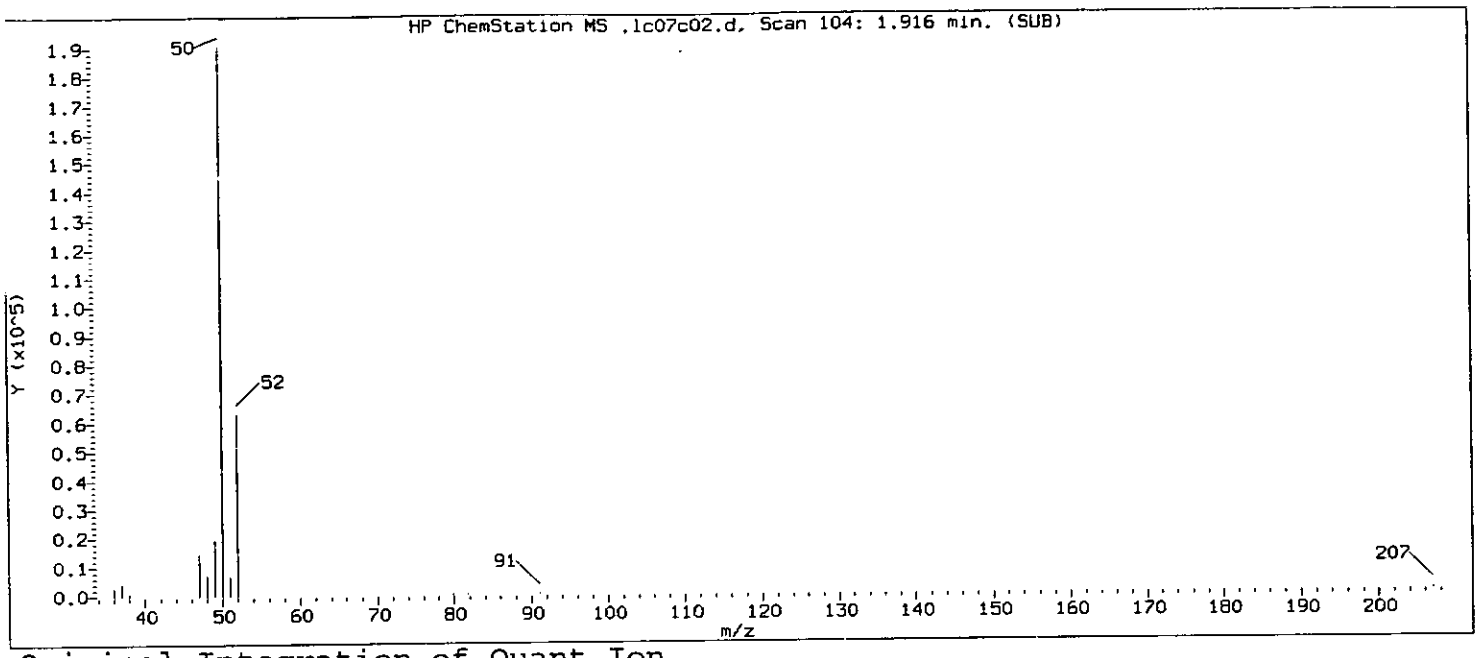
Analyst responsible for change: NPR2223 10/7/09

GC/MS audit/management approval: [signature] 10/8/09

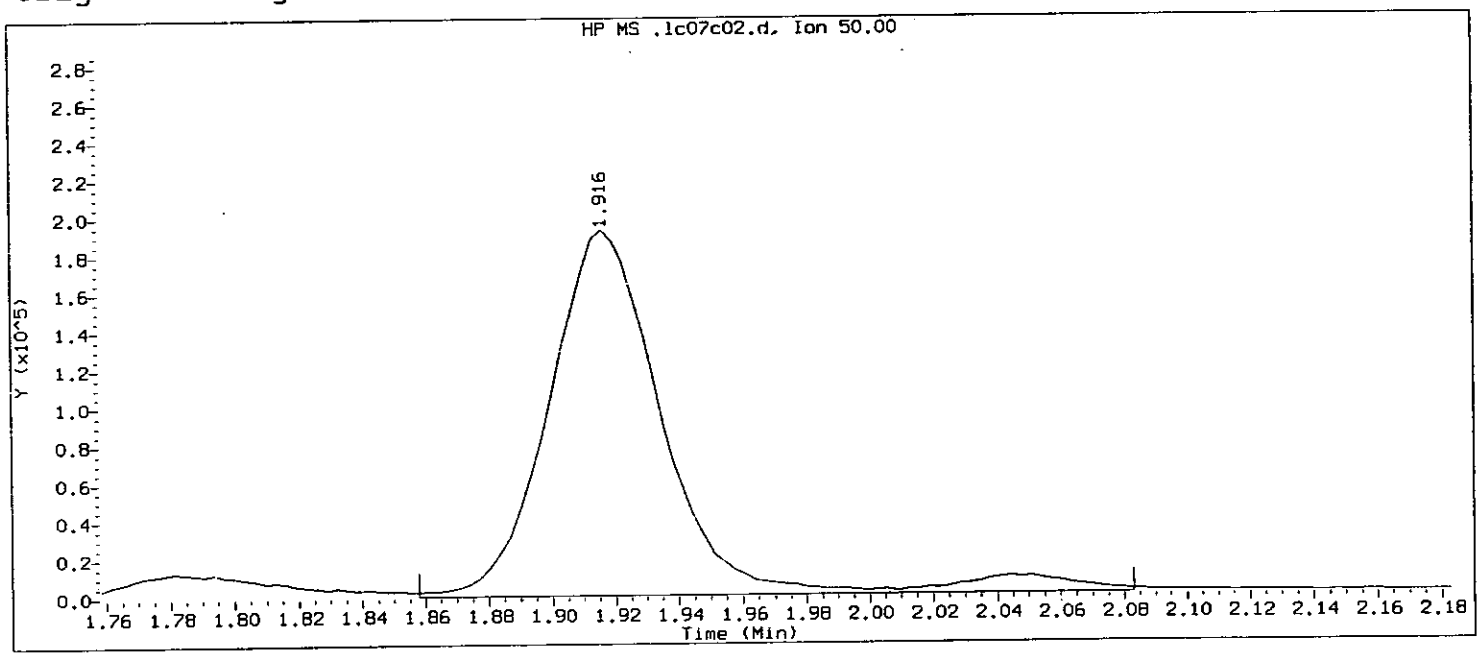
PTL03 0486

Manual Integration Report for data file /chem/HP09915.i/09oct07b.b/lc07c02.d, generated on 10/07/2009 at 17:33

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct07b.b/lc07c02.d Instrument ID: HP09915.i
Injection date and time: 07-OCT-2009 17:08 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 07-OCT-2009 17:29
Date, time and analyst ID of latest file update: 07-Oct-2009 17:29 npr02223

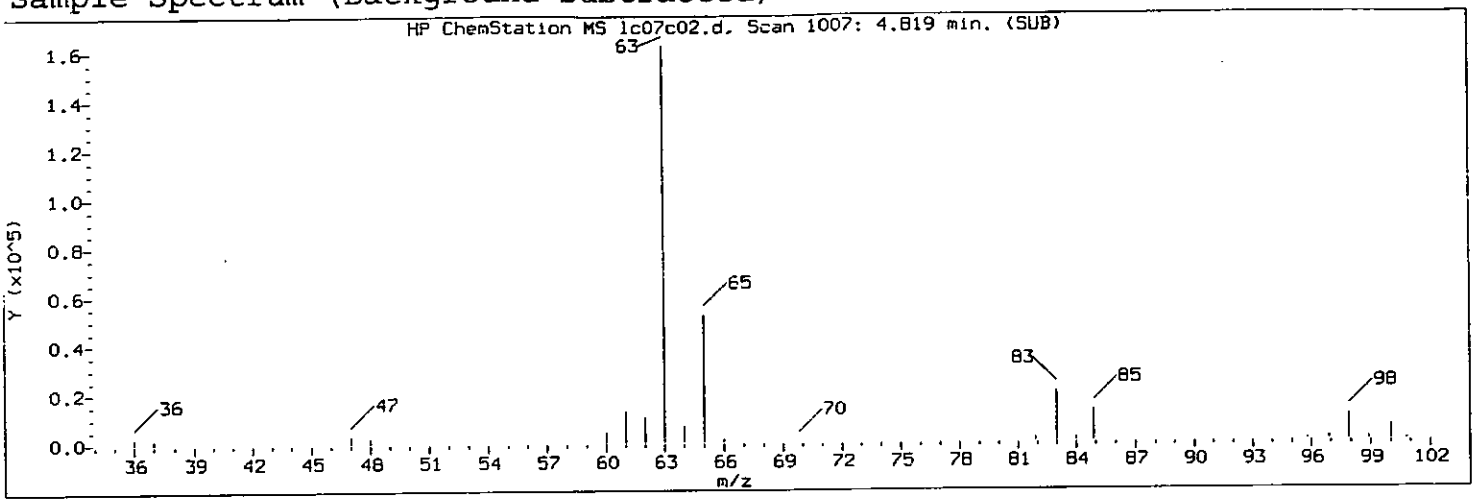
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	:	3
Compound Name	:	Chloromethane
Scan Number	:	104
Retention Time (minutes)	:	1.916
Quant Ion	:	50
Area	:	490034
Concentration (ug/L)	:	58.6676
Integration start scan	:	85
Integration stop scan	:	155
Y at integration start	:	0
Y at integration end	:	0

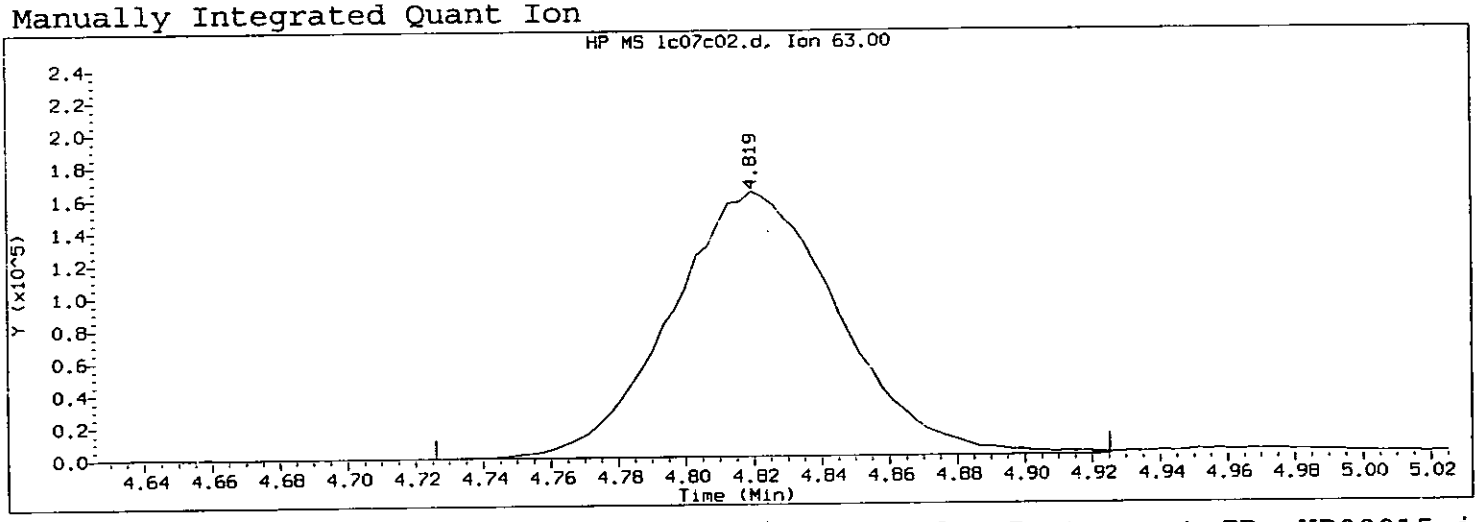
PTLB3 B407

Original Integration Report for data file /chem/HP09915.i/09oct07b.b/lc07c02.d, generated on 10/07/2009 at 17:33

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct07b.b/lc07c02.d Instrument ID: HP09915.i
Injection date and time: 07-OCT-2009 17:08 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 07-OCT-2009 17:32
Date, time and analyst ID of latest file update: 07-Oct-2009 17:32 npr02223

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 36
Compound Name : 1,1-Dichloroethane
Scan Number : 1007
Retention Time (minutes): 4.819
Quant Ion : 63
Area (flag) : 562273 M
Concentration (ug/L) : 54.9639
Integration start scan : 977 Integration stop scan: 1039
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

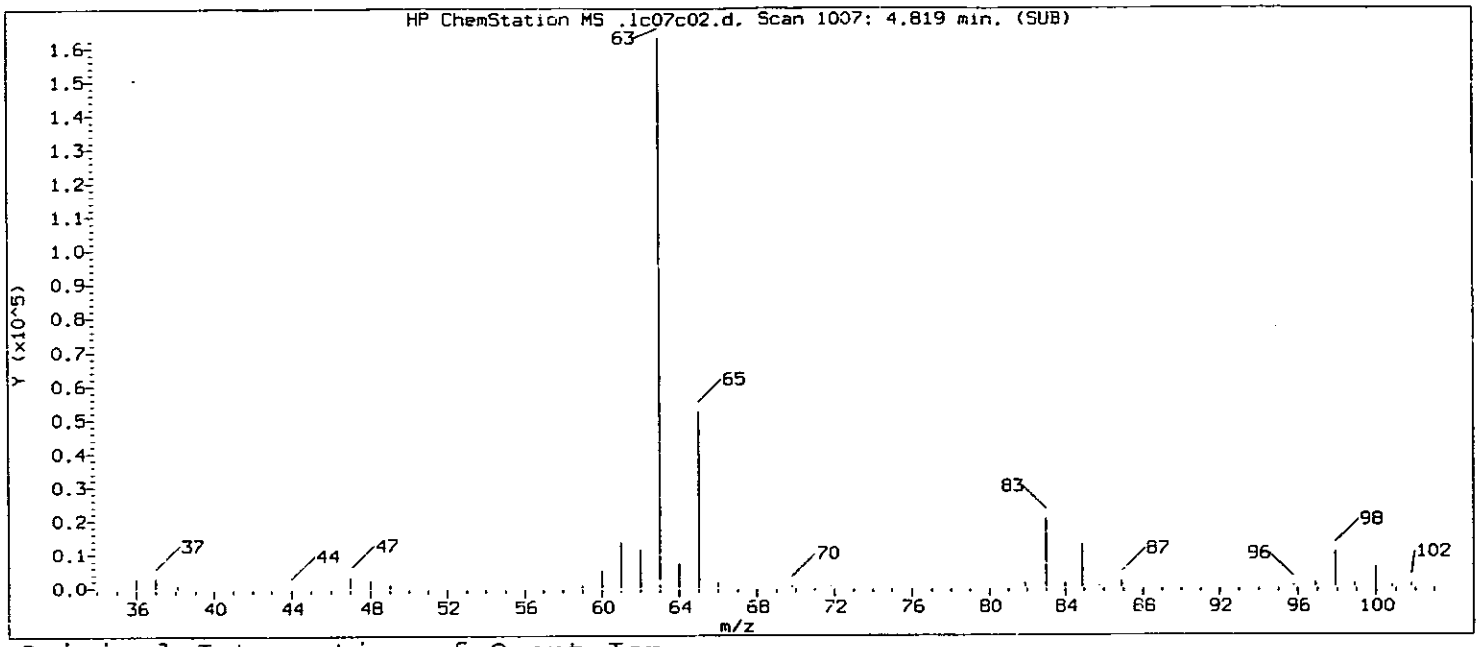
Analyst responsible for change: NPR2223 10/7/09

PTL03 0408

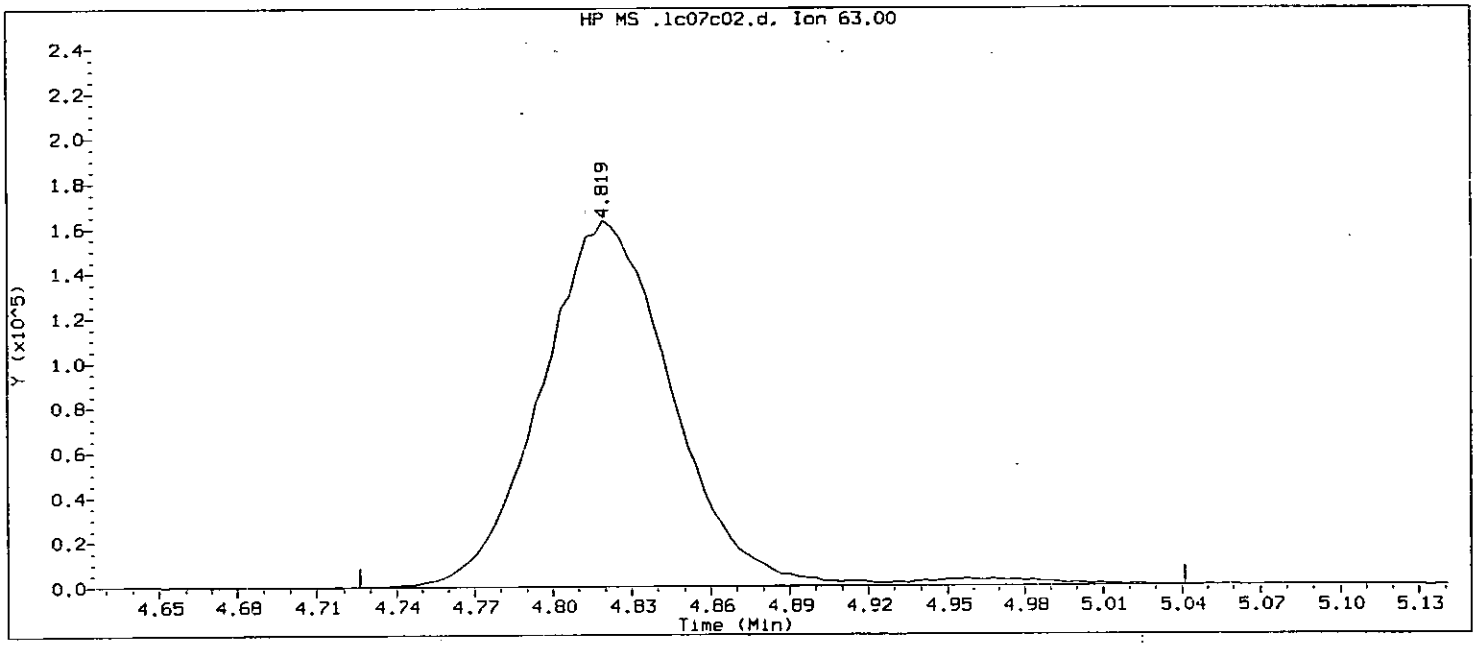
GC/MS audit/management approval: [signature] 10-10-09

Manual Integration Report for data file /chem/HP09915.i/09oct07b.b/lc07c02.d, generated on 10/07/2009 at 17:33

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct07b.b/lc07c02.d Instrument ID: HP09915.i
Injection date and time: 07-OCT-2009 17:08 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 07-OCT-2009 17:29
Date, time and analyst ID of latest file update: 07-Oct-2009 17:29 npr02223

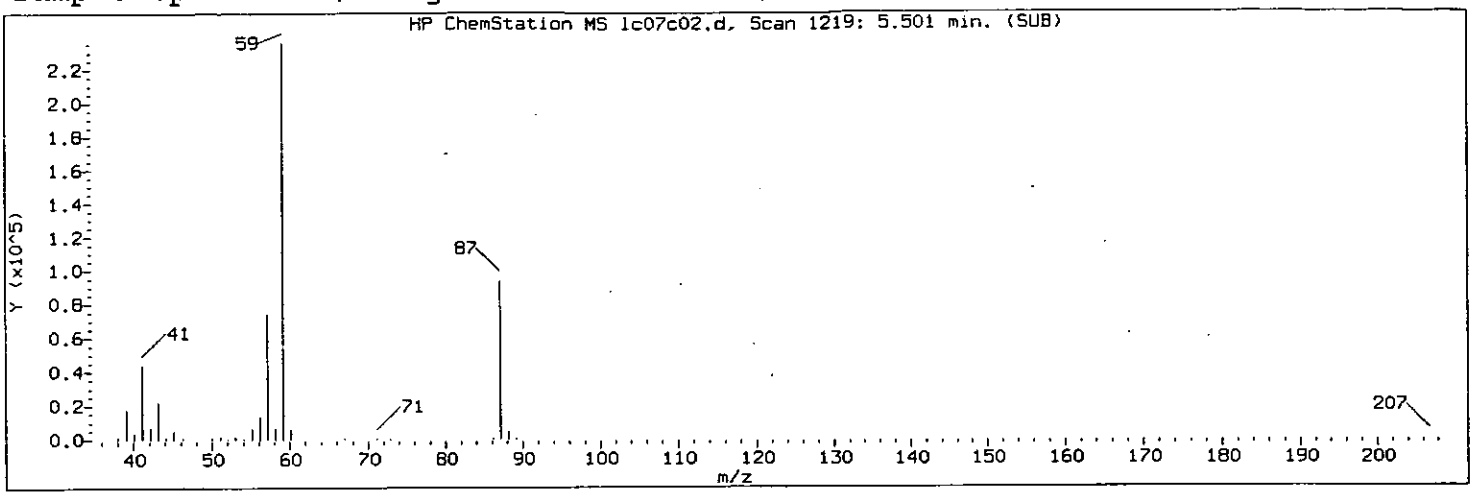
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 36
Compound Name	: 1,1-Dichloroethane
Scan Number	: 1007
Retention Time (minutes)	: 4.819
Quant Ion	: 63
Area	: 574080
Concentration (ug/L)	: 56.1180
Integration start scan	: 977 Integration stop scan: 1075
Y at integration start	: 0 Y at integration end: 0

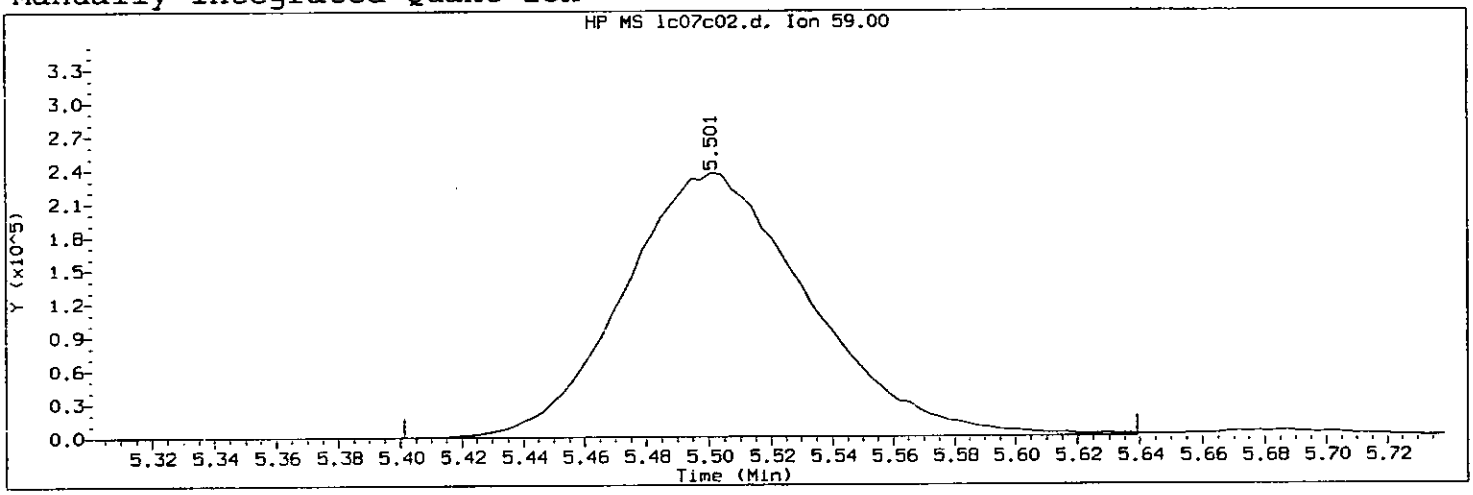
PTL03 0489

Original Integration Report for data file /chem/HP09915.i/09oct07b.b/lc07c02.d, generated on 10/07/2009 at 17:33

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct07b.b/lc07c02.d Instrument ID: HP09915.i
Injection date and time: 07-OCT-2009 17:08 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 07-OCT-2009 17:32
Date, time and analyst ID of latest file update: 07-Oct-2009 17:32 npr02223

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 43
Compound Name : Ethyl t-Butyl Ether
Scan Number : 1219
Retention Time (minutes): 5.501
Quant Ion : 59
Area (flag) : 984979 M
Concentration (ug/L) : 52.8291
Integration start scan : 1187 Integration stop scan: 1261
Y at integration start : 0 Y at integration end: 0

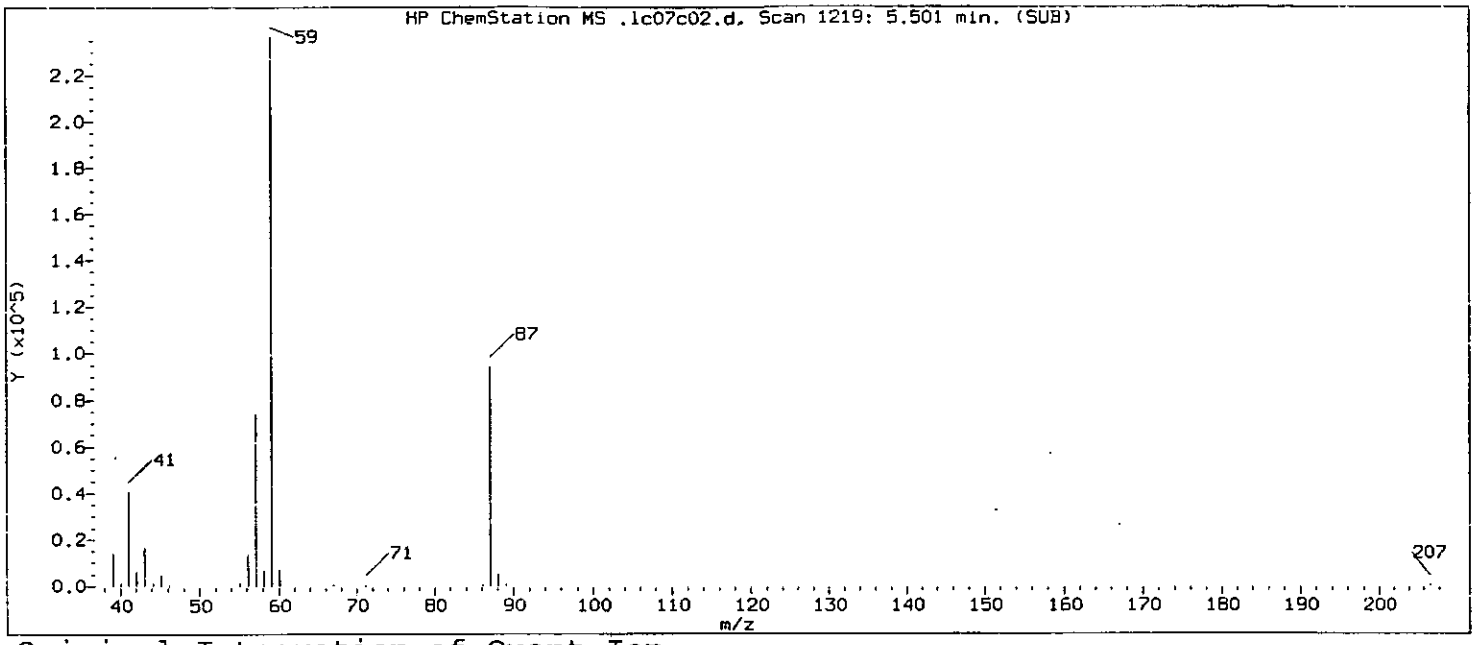
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: NPR2223 10/7/09

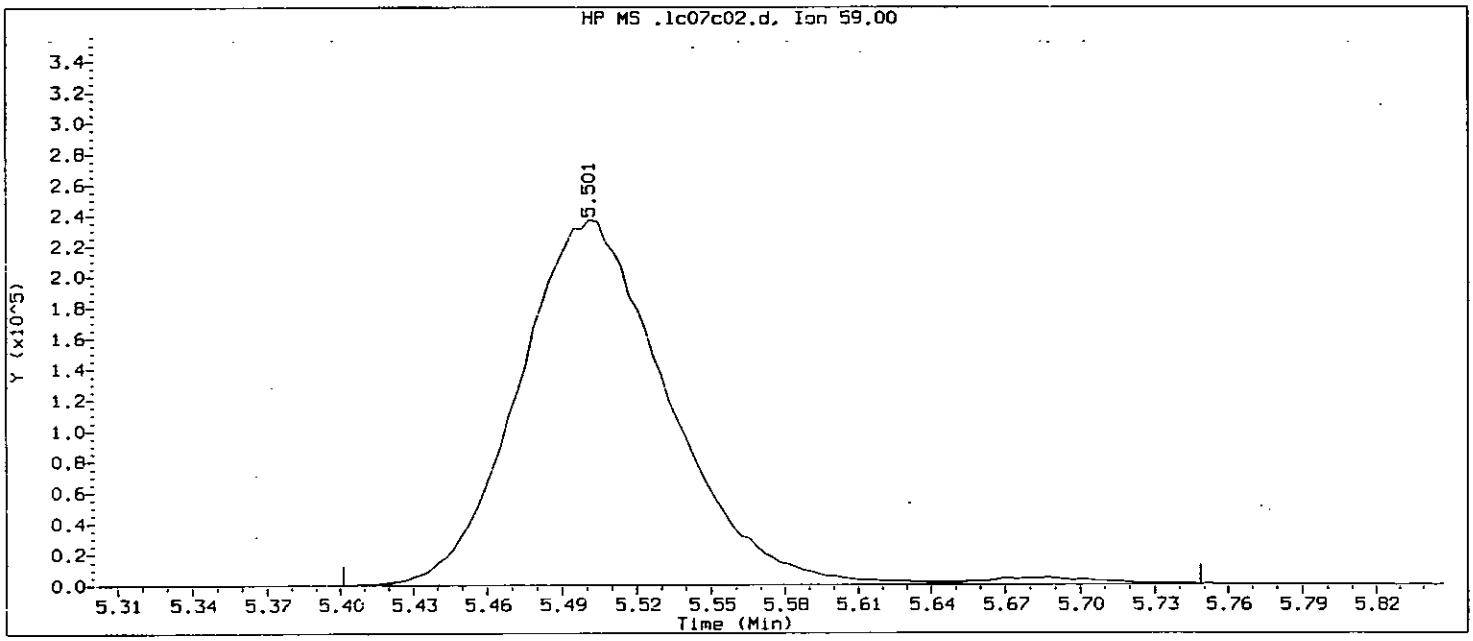
GC/MS audit/management approval: 10/10/09

PTL83 9418

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct07b.b/lc07c02.d Instrument ID: HP09915.i
Injection date and time: 07-OCT-2009 17:08 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: 8260WI
Calibration date and time: 07-OCT-2009 17:29
Date, time and analyst ID of latest file update: 07-Oct-2009 17:29 npr02223

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 43
Compound Name	: Ethyl t-Butyl Ether
Scan Number	: 1219
Retention Time (minutes)	: 5.501
Quant Ion	: 59
Area	: 1001095
Concentration (ug/L)	: 53.6935
Integration start scan	: 1187 Integration stop scan: 1295
Y at integration start	: 0 Y at integration end: 0

PTL03 0411

Original Integration Report for data file /chem/HP09915.i/09oct07b.b/lc07c02.d, generated on 10/07/2009 at 17:33

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09915 Calibration Date: 10/09/09 Time: 18:11

Lab File ID: lc09c05.d Init. Calib. Date(s): 10/08/09 10/08/09

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	Dichlorodifluoromethane	0.4161	0.4478	53.81	50	8	
#	Chloromethane	0.3593	0.4269	59.40	50	19	#
*	Vinyl Chloride	0.3275	0.3890	59.37	50	19	*
	Bromomethane	0.1697	0.2072	60.19	50	20	
	Chloroethane	0.1567	0.1925	61.06	50	22	
	Trichlorofluoromethane	0.4378	0.5020	57.33	50	15	
	Ethyl Ether	0.1587	0.1775	55.93	50	12	
	Acrolein	1.2961	1.1795	454.99	500	-9	
*	1,1-Dichloroethene	0.2168	0.2289	52.78	50	6	*
	Freon 113	0.2539	0.2675	52.68	50	5	
	Acetone	0.1149	0.0983	85.51	100	-14	
	2-Propanol	0.8127	0.8748	269.09	250	8	
	Methyl Iodide	0.4671	0.4469	47.84	50	-4	
	Carbon Disulfide	0.9058	0.8814	48.65	50	-3	
	Allyl Chloride	0.4691	0.4212	44.90	50	-10	
	Methyl Acetate	0.3141	0.3008	47.88	50	-4	
	Methylene Chloride	0.2953	0.2708	45.85	50	-8	
	t-Butyl Alcohol	1.1733	1.2520	266.78	250	7	
	Acrylonitrile	0.1507	0.1277	42.36	50	-15	
	trans-1,2-Dichloroethene	0.2676	0.2634	49.21	50	-2	
	Methyl Tertiary Butyl Ether	0.8698	0.8497	48.84	50	-2	
	n-Hexane	0.4178	0.4146	49.62	50	-1	
	1,2-Dichloroethene (total)	0.2750	0.2722	98.95	100	-1	
#	1,1-Dichloroethane	0.4934	0.4822	48.86	50	-2	#
	di-Isopropyl Ether	0.9882	0.9891	50.05	50	0	
	2-Chloro-1,3-Butadiene	0.4416	0.4444	50.32	50	1	
	Ethyl t-Butyl Ether	0.8489	0.8331	49.07	50	-2	
	cis-1,2-Dichloroethene	0.2825	0.2810	49.74	50	-1	
	2-Butanone	0.2087	0.1893	90.70	100	-9	
	2,2-Dichloropropane	0.3762	0.3665	48.71	50	-3	
	Propionitrile	1.5050	1.6153	268.34	250	7	
	Methacrylonitrile	0.1574	0.1603	127.31	125	2	
	Bromochloromethane	0.1373	0.1348	49.09	50	-2	
	Tetrahydrofuran	1.1236	1.0121	90.07	100	-10	
*	Chloroform	0.4447	0.4524	50.87	50	2	*
	1,1,1-Trichloroethane	0.4341	0.4094	47.15	50	-6	

PTL03 8412

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09915 Calibration Date: 10/09/09 Time: 18:11

Lab File ID: lc09c05.d Init. Calib. Date(s): 10/08/09 10/08/09

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	Cyclohexane	0.5129	0.5035	49.09	50	-2	
	Cyclohexane(mz 84)	0.4090	0.4052	49.54	50	-1	
	Cyclohexane(mz 69)	0.1485	0.1460	49.18	50	-2	
	1,1-Dichloropropene	0.3734	0.3711	49.69	50	-1	
	Carbon Tetrachloride	0.3401	0.3406	50.06	50	0	
	Isobutyl Alcohol	0.4335	0.4891	705.25	625	13	
	Benzene	1.0976	1.0778	49.10	50	-2	
	1,2-Dichloroethane	0.3841	0.3981	51.81	50	4	
	1,2-Dichloroethane(mz 98)	0.0323	0.0324	50.19	50	0	
	t-Amyl Methyl Ether	0.7892	0.7752	49.11	50	-2	
	n-Heptane	0.4277	0.4235	49.50	50	-1	
	n-Butanol	0.3392	0.3829	1411.12	1250	13	
	Trichloroethene	0.2686	0.2838	52.84	50	6	
	Methylcyclohexane	0.4435	0.4236	47.76	50	-4	
	Methylcyclohexane(mz98)	0.1984	0.1904	47.98	50	-4	
*	1,2-Dichloropropane	0.2968	0.2992	50.40	50	1	*
	Dibromomethane	0.1772	0.1839	51.88	50	4	
	Methyl Methacrylate	0.2522	0.2581	51.17	50	2	
	1,4-Dioxane	0.1034	0.1175	710.31	625	14	
	Bromodichloromethane	0.3243	0.3350	51.65	50	3	
	2-Nitropropane	0.0972	0.0925	86.71	100	-13	
	2-Chloroethyl Vinyl Ether	0.2170	0.2205	50.83	50	2	
	cis-1,3-Dichloropropene	0.4329	0.4416	51.00	50	2	
	4-Methyl-2-Pentanone	0.4270	0.4094	95.88	100	-4	
*	Toluene	0.8896	0.8833	49.65	50	-1	*
	trans-1,3-Dichloropropene	0.5620	0.5764	51.28	50	3	
	Ethyl Methacrylate	0.5667	0.5929	52.31	50	5	
	1,1,2-Trichloroethane	0.3311	0.3354	50.63	50	1	
	Tetrachloroethene	0.3934	0.4664	59.27	50	19	
	1,3-Dichloropropane	0.6106	0.6287	51.48	50	3	
	2-Hexanone	0.4357	0.4161	95.49	100	-5	
	Dibromochloromethane	0.3706	0.3854	52.00	50	4	
	1,2-Dibromoethane	0.3718	0.3817	51.33	50	3	
#	Chlorobenzene	1.0106	1.0193	50.43	50	1	#
	1,1,1,2-Tetrachloroethane	0.3442	0.3531	51.30	50	3	
*	Ethylbenzene	1.7207	1.7506	50.87	50	2	*

PTL03 8413

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09915 Calibration Date: 10/09/09 Time: 18:11

Lab File ID: lc09c05.d Init. Calib. Date(s): 10/08/09 10/08/09

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	m+p-Xylene	0.6733	0.6775	50.31	50	1	
	Xylene (Total)	0.6524	0.6669	102.28	100	2	
	o-Xylene	0.6314	0.6563	51.98	50	4	
	Styrene	1.0352	1.1112	53.67	50	7	
#	Bromoform	0.2706	0.2934	54.20	50	8	#
	Isopropylbenzene	1.6458	1.6939	51.46	50	3	
	Cyclohexanone	0.3740	0.3790	633.33	625	1	
#	1,1,2,2-Tetrachloroethane	0.9388	0.8771	46.71	50	-7	#
	Bromobenzene	0.7674	0.7692	50.11	50	0	
	1,2,3-Trichloropropane	0.2749	0.2885	52.47	50	5	
	trans-1,4-Dichloro-2-Butene	0.3138	0.3167	126.17	125	1	
	n-Propylbenzene	0.8487	0.8423	49.62	50	-1	
	2-Chlorotoluene	0.7261	0.7211	49.66	50	-1	
	1,3,5-Trimethylbenzene	1.2267	1.2275	50.03	50	0	
	4-Chlorotoluene	0.7556	0.7678	50.81	50	2	
	tert-Butylbenzene	0.5541	0.5452	49.19	50	-2	
	Pentachloroethane	0.4709	0.3879	41.19	50	-18	
	1,2,4-Trimethylbenzene	2.5489	2.5995	50.99	50	2	
	sec-Butylbenzene	0.6401	0.6370	49.76	50	0	
	1,3-Dichlorobenzene	1.4224	1.4593	51.30	50	3	
	p-Isopropyltoluene	0.7197	0.7323	50.87	50	2	
	1,4-Dichlorobenzene	1.5061	1.5246	50.61	50	1	
	1,2,3-Trimethylbenzene	1.1377	1.1458	50.35	50	1	
	Benzyl Chloride	1.8595	1.9451	52.30	50	5	
	1,3-Diethylbenzene	1.5743	1.5782	50.12	50	0	
	1,4-Diethylbenzene	1.5551	1.5590	50.13	50	0	
	n-Butylbenzene	1.3039	1.3119	50.30	50	1	
	1,2-Dichlorobenzene	1.3934	1.4147	50.77	50	2	
	1,2-Diethylbenzene	1.2944	1.3044	50.39	50	1	
	1,2-Dibromo-3-Chloropropane	0.2028	0.2102	51.83	50	4	
	1,2,4-Trichlorobenzene	1.0653	1.0657	50.02	50	0	
	Hexachlorobutadiene	0.5757	0.4957	43.05	50	-14	
	Naphthalene	3.2156	3.2945	51.23	50	2	
	1,2,3-Trichlorobenzene	1.0598	1.0512	49.59	50	-1	
	2-Methylnaphthalene	1.8202	1.6905	46.44	50	-7	
	Dibromofluoromethane	0.2559	0.2464	48.14	50	-4	

PTL03 0414

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09915 Calibration Date: 10/09/09 Time: 18:11

Lab File ID: lc09c05.d Init. Calib. Date(s): 10/08/09 10/08/09

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
Dibromofluoromethane(mz111)	0.2621	0.2502	47.72	50	-5
1,2-Dichloroethane-d4	0.0618	0.0578	46.78	50	-6
1,2-Dichloroethane-d4(mz65)	0.3166	0.3045	48.09	50	-4
1,2-Dichloroethane-d4(mz104)	0.0393	0.0363	46.23	50	-8
Toluene-d8	1.3937	1.3541	48.58	50	-3
Toluene-d8(mz100)	0.8925	0.8674	48.59	50	-3
4-Bromofluorobenzene	0.4944	0.4642	46.94	50	-6
4-Bromofluorobenzene(mz174)	0.4321	0.4122	47.70	50	-5

Average %Drift 5

PTL03 0415

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

Lancaster Laboratories
Continuing Calibration Internal Standard Check

Initial Calibration Standards:

/chem/HP09915.i/09oct08i.b/lc08i06.d
/chem/HP09915.i/09oct08i.b/lc08i05.d
/chem/HP09915.i/09oct08i.b/lc08i04.d
/chem/HP09915.i/09oct08i.b/lc08i03.d
/chem/HP09915.i/09oct08i.b/lc08i02.d
/chem/HP09915.i/09oct08i.b/lc08i01.d

File /chem/HP09915.i/09oct08i.b/lc08i03.d is Mid Level Calibration Standard used for comparison.

Current Continuing Calibration Standard:

/chem/HP09915.i/09oct09b.b/lc09c05.d

RT Summary

Internal Standard Name	File ID: lc09c05.d	ICAL RT	In Spec
t-Butyl Alcohol-d10	3.829	3.829	Yes
Fluorobenzene	7.305	7.305	Yes
Chlorobenzene-d5	10.870	10.874	Yes
1,4-Dichlorobenzene-d4	12.768	12.767	Yes

A "No" indicates the retention time is greater than 30 seconds from the referenced ICAL standard.

Area Summary

Internal Standard Name	File ID: lc09c05.d	ICAL Area	Low Limit	High Limit	In Spec
t-Butyl Alcohol-d10	211971	280488	140244	560976	Yes
Fluorobenzene	1084064	1370788	685394	2741576	Yes
Chlorobenzene-d5	808171	1007166	503583	2014332	Yes
1,4-Dichlorobenzene-d4	457136	549741	274870	1099482	Yes

A "No" indicates the internal standard area is outside acceptable QC limits.

PTL#3 #416

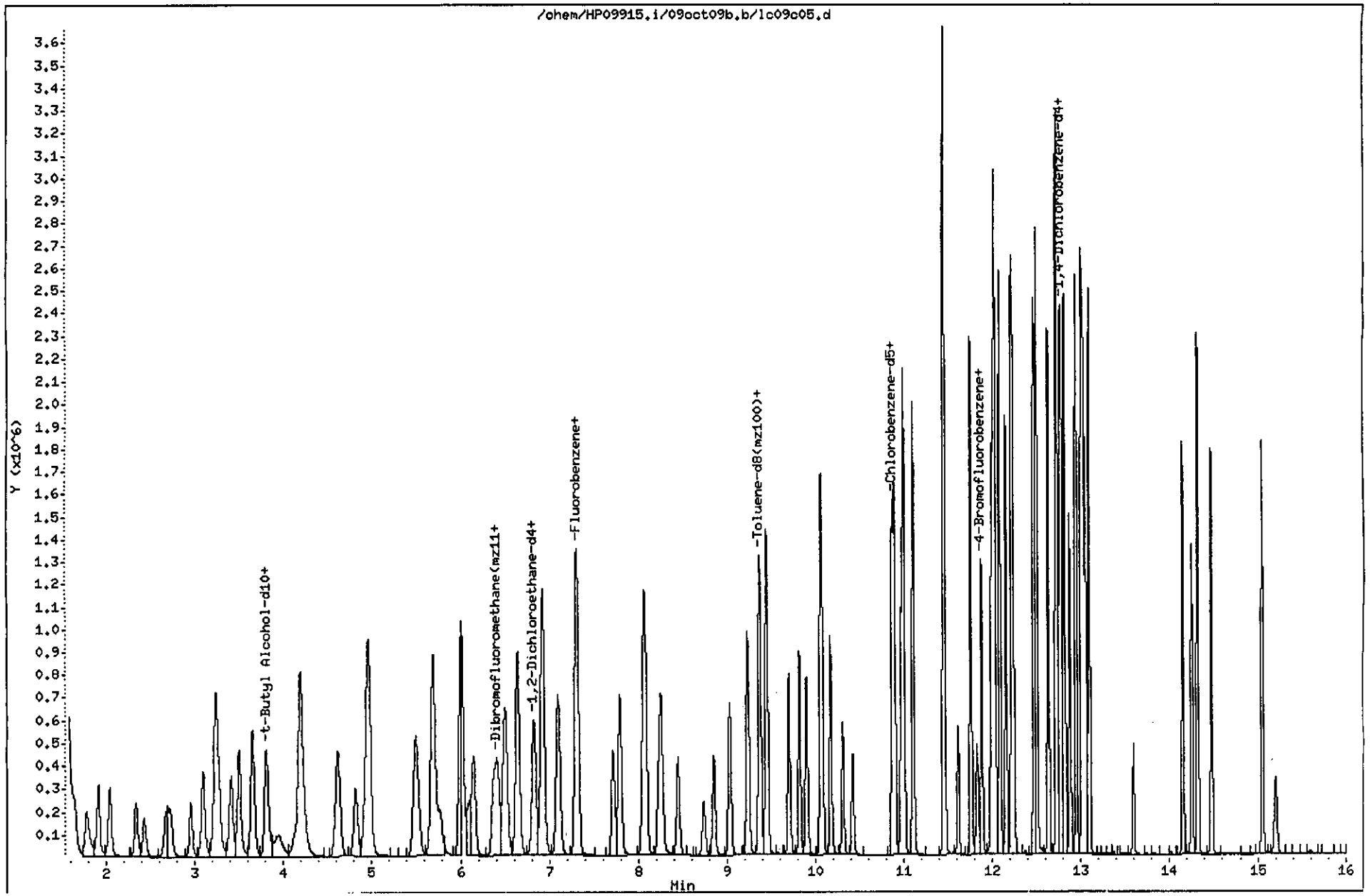
Comments: _____

Data File: /chem/HP09915.i/09oct09b.b/lc09c05.d
Date : 09-OCT-2009 18:11
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;1;2;;;;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: KDP02245
Column diameter: 0.25

PTL02 0417



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct09b.b/lc09c05.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 18:11 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: 8260WI-FR
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 22:35 maz02012

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.781	85	485449	53.805
3) Chloromethane	(1)	1.916	50	462774	59.405
4) Vinyl Chloride	(1)	2.038	62	421665	59.374
8) Bromomethane	(1)	2.337	94	224658	60.188
9) Chloroethane	(1)	2.427	64	208730	61.057
11) Trichlorofluoromethane	(1)	2.713	101	544231	57.331
15) Ethyl Ether	(1)	2.958	59	192456	55.925
18) Acrolein	(4)	3.096	56	500026	454.993
19) 1,1-Dichloroethene	(1)	3.228	96	248140	52.780
20) Freon 113	(1)	3.260	101	289966	52.681
21) Acetone	(1)	3.260	43	213029	85.513
22) 2-Propanol	(4)	3.417	45	185431	269.087
23) Methyl Iodide	(1)	3.408	142	484511	47.840
24) Carbon Disulfide	(1)	3.498	76	955472	48.651
27) Allyl Chloride	(1)	3.652	41	456635	44.899
28) Methyl Acetate	(1)	3.662	43	326036	47.880
29) Methylene Chloride	(1)	3.803	84	293557	45.846
30) *t-Butyl Alcohol-d10	(4)	3.829	65	211971	250.000
31) t-Butyl Alcohol	(4)	3.958	59	265394	266.783
32) Acrylonitrile	(1)	4.122	53	138435	42.360
33) trans-1,2-Dichloroethene	(1)	4.189	96	285498	49.207
34) Methyl Tertiary Butyl Ether	(1)	4.202	73	921133	48.844
35) n-Hexane	(1)	4.617	57	449488	49.624
42) 1,2-Dichloroethene (total)	(1)		96	590140	98.951
36) 1,1-Dichloroethane	(1)	4.822	63	522711	48.861
40) di-Isopropyl Ether	(1)	4.948	45	1072209	50.046
41) 2-Chloro-1,3-Butadiene	(1)	4.964	53	481792	50.323
43) Ethyl t-Butyl Ether	(1)	5.498	59	903120	49.066
44) cis-1,2-Dichloroethene	(1)	5.687	96	304642	49.743
45) 2-Butanone	(1)	5.694	43	410518	90.702
46) 2,2-Dichloropropane	(1)	5.697	77	397290	48.708
47) Propionitrile	(4)	5.771	54	342406	268.338
50) Methacrylonitrile	(1)	6.003	67	434447	127.313
51) Bromochloromethane	(1)	6.019	128	146146	49.092

* = Compound is an internal standard.

PTL83 8418

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct09b.b/lc09c05.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 18:11 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: 8260WI-FR
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 22:35 maz02012

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
52) Tetrahydrofuran	(4)	6.096	71	85814	90.073
53) Chloroform	(1)	6.150	83	490480	50.872
57) 1,1,1-Trichloroethane	(1)	6.414	97	443777	47.153
60) Cyclohexane	(1)	6.504	56	545871	49.092
59) Cyclohexane (mz 84)	(1)	6.498	84	439304	49.545
58) Cyclohexane (mz 69)	(1)	6.507	69	158312	49.181
61) 1,1-Dichloropropene	(1)	6.642	75	402276	49.686
62) Carbon Tetrachloride	(1)	6.646	117	369219	50.064
63) Isobutyl Alcohol	(4)	6.819	41	259204	705.245
67) Benzene	(1)	6.919	78	1168405	49.100
68) 1,2-Dichloroethane	(1)	6.935	62	431545	51.813
69) 1,2-Dichloroethane (mz 98)	(1)	6.941	98	35153	50.191
71) t-Amyl Methyl Ether	(1)	7.099	73	840367	49.112
72) *Fluorobenzene	(1)	7.305	96	1084064	50.000
74) n-Heptane	(1)	7.321	43	459072	49.501
75) n-Butanol	(4)	7.720	56	405859	1411.118
76) Trichloroethene	(1)	7.797	95	307659	52.838
77) Methylcyclohexane	(1)	8.064	83	459258	47.759
78) Methylcyclohexane (mz98)	(1)	8.064	98	206353	47.976
79) 1,2-Dichloropropane	(1)	8.083	63	324380	50.400
80) Dibromomethane	(1)	8.231	93	199358	51.881
81) Methyl Methacrylate	(1)	8.263	69	279848	51.174
82) 1,4-Dioxane	(4)	8.266	88	62282	710.311
84) Bromodichloromethane	(1)	8.446	83	363107	51.646
85) 2-Nitropropane	(1)	8.736	41	200444	86.705
86) 2-Chloroethyl Vinyl Ether	(1)	8.854	63	239082	50.825
87) cis-1,3-Dichloropropene	(1)	9.035	75	478679	51.005
89) 4-Methyl-2-Pentanone	(1)	9.237	43	887633	95.883
93) Toluene	(2)	9.453	92	713890	49.647
94) trans-1,3-Dichloropropene	(2)	9.703	75	465824	51.280
95) Ethyl Methacrylate	(2)	9.819	69	479141	52.307
96) 1,1,2-Trichloroethane	(2)	9.903	97	271020	50.633
97) Tetrachloroethene	(2)	10.063	166	376925	59.271
98) 1,3-Dichloropropane	(2)	10.083	76	508092	51.479

* = Compound is an internal standard.

PTL03 9419

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct09b.b/lc09c05.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 18:11 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: 8260WI-FR
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 22:35 maz02012

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
100) 2-Hexanone	(2)	10.173	43	672526	95.494
102) Dibromochloromethane	(2)	10.311	129	311497	52.001
103) 1,2-Dibromoethane	(2)	10.420	107	308503	51.334
104) *Chlorobenzene-d5	(2)	10.870	117	808171	50.000
105) Chlorobenzene	(2)	10.899	112	823749	50.428
107) 1,1,1,2-Tetrachloroethane	(2)	10.973	131	285397	51.299
108) Ethylbenzene	(2)	11.002	91	1414756	50.869
109) m+p-Xylene	(2)	11.108	106	547497	50.305
110) Xylene (Total)	(2)		106	1077927	102.281
111) o-Xylene	(2)	11.452	106	530430	51.975
112) Styrene	(2)	11.462	104	898059	53.672
113) Bromoform	(2)	11.616	173	237103	54.198
115) Isopropylbenzene	(2)	11.761	105	1368987	51.462
117) Cyclohexanone	(4)	11.832	55	200829	633.333
120) 1,1,2,2-Tetrachloroethane	(3)	11.989	83	400940M	46.713
122) Bromobenzene	(3)	12.005	156	351609	50.114
123) 1,2,3-Trichloropropane	(3)	12.025	110	131895	52.474
124) trans-1,4-Dichloro-2-Butene	(3)	12.031	53	361983M	126.166
125) n-Propylbenzene	(3)	12.086	120	385057	49.624
126) 2-Chlorotoluene	(3)	12.157	126	329639	49.656
127) 1,3,5-Trimethylbenzene	(3)	12.221	120	561137	50.034
128) 4-Chlorotoluene	(3)	12.240	126	350981	50.807
130) tert-Butylbenzene	(3)	12.472	134	249214	49.193
131) Pentachloroethane	(3)	12.491	167	177337	41.189
132) 1,2,4-Trimethylbenzene	(3)	12.504	105	1188327	50.992
134) sec-Butylbenzene	(3)	12.636	134	291217	49.760
135) 1,3-Dichlorobenzene	(3)	12.723	146	667081	51.296
136) p-Isopropyltoluene	(3)	12.735	134	334775	50.875
137) *1,4-Dichlorobenzene-d4	(3)	12.768	152	457136	50.000
138) 1,4-Dichlorobenzene	(3)	12.784	146	696943	50.614
139) 1,2,3-Trimethylbenzene	(3)	12.819	120	523773	50.355
140) Benzyl Chloride	(3)	12.877	91	889176	52.301
141) 1,3-Diethylbenzene	(3)	12.951	119	721466	50.124
142) 1,4-Diethylbenzene	(3)	13.009	119	712692	50.126

M = Compound was manually integrated.

* = Compound is an internal standard.

PTL03 0420

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct09b.b/lc09c05.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 18:11 Analyst ID: KDP02245

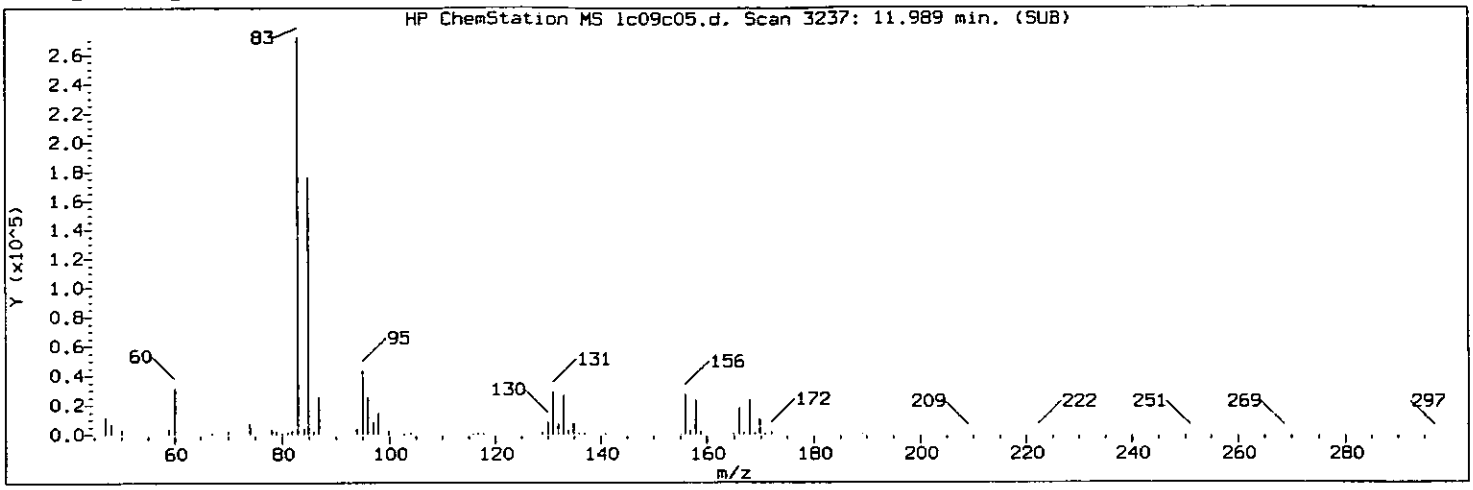
Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: 8260WI-FR
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 22:35 maz02012

Sample Name: VSTD050 Lab Sample ID: VSTD050

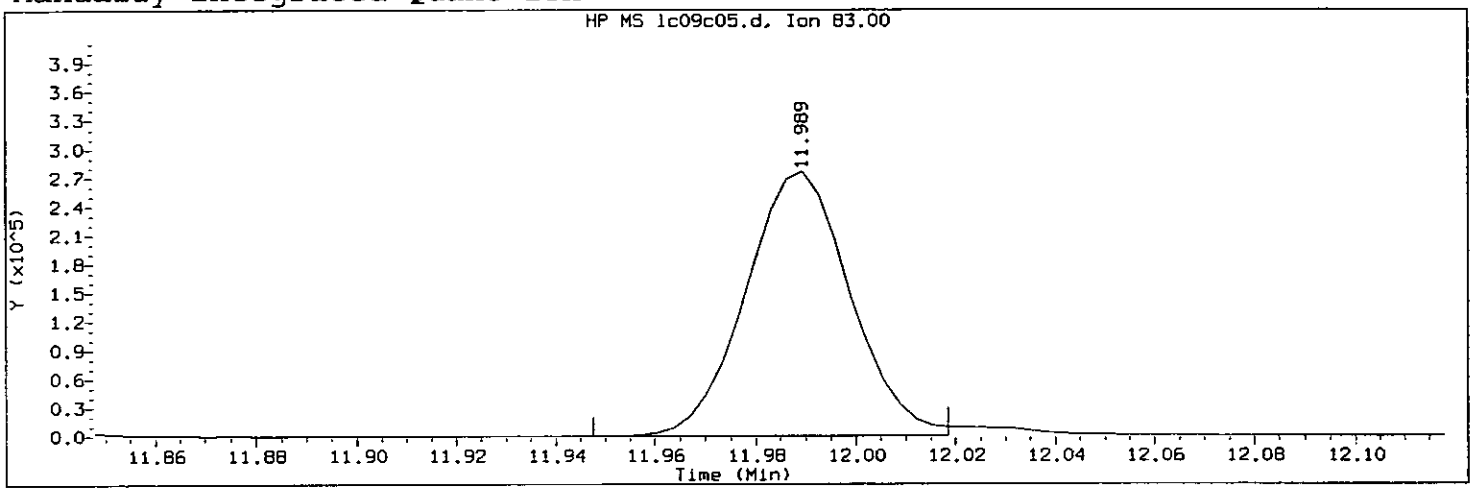
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
143) n-Butylbenzene	(3)	13.028	92	599702	50.304
144) 1,2-Dichlorobenzene	(3)	13.057	146	646728	50.766
145) 1,2-Diethylbenzene	(3)	13.095	119	596309	50.390
146) 1,2-Dibromo-3-Chloropropane	(3)	13.591	75	96082	51.829
147) 1,2,4-Trichlorobenzene	(3)	14.153	180	487153	50.017
148) Hexachlorobutadiene	(3)	14.256	225	226583	43.046
149) Naphthalene	(3)	14.321	128	1506030	51.227
150) 1,2,3-Trichlorobenzene	(3)	14.478	180	480563	49.595
152) 2-Methylnaphthalene	(3)	15.054	142	772792	46.437
54)$Dibromofluoromethane	(1)	6.369	113	267145	48.141
55)$Dibromofluoromethane(mz111)	(1)	6.369	111	271213	47.721
64)$1,2-Dichloroethane-d4	(1)	6.832	102	62682	46.777
65)$1,2-Dichloroethane-d4(mz65)	(1)	6.832	65	330112	48.090
66)$1,2-Dichloroethane-d4(mz104)	(1)	6.826	104	39346	46.228
91)$Toluene-d8	(2)	9.372	98	1094320	48.577
90)$Toluene-d8(mz100)	(2)	9.372	100	701009	48.593
119)$4-Bromofluorobenzene	(2)	11.880	95	375159	46.945
118)$4-Bromofluorobenzene(mz174)	(2)	11.883	174	333117	47.699

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct09b.b/lc09c05.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 18:11 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: 8260WI-FR
Calibration date and time: 12-OCT-2009 22:35
Date, time and analyst ID of latest file update: 12-Oct-2009 22:35 maz02012

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 120
Compound Name : 1,1,2,2-Tetrachloroethane
Scan Number : 3237
Retention Time (minutes): 11.989
Quant Ion : 83
Area (flag) : 400940 M
Concentration (ug/L) : 46.7131
Integration start scan : 3223 Integration stop scan: 3245
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

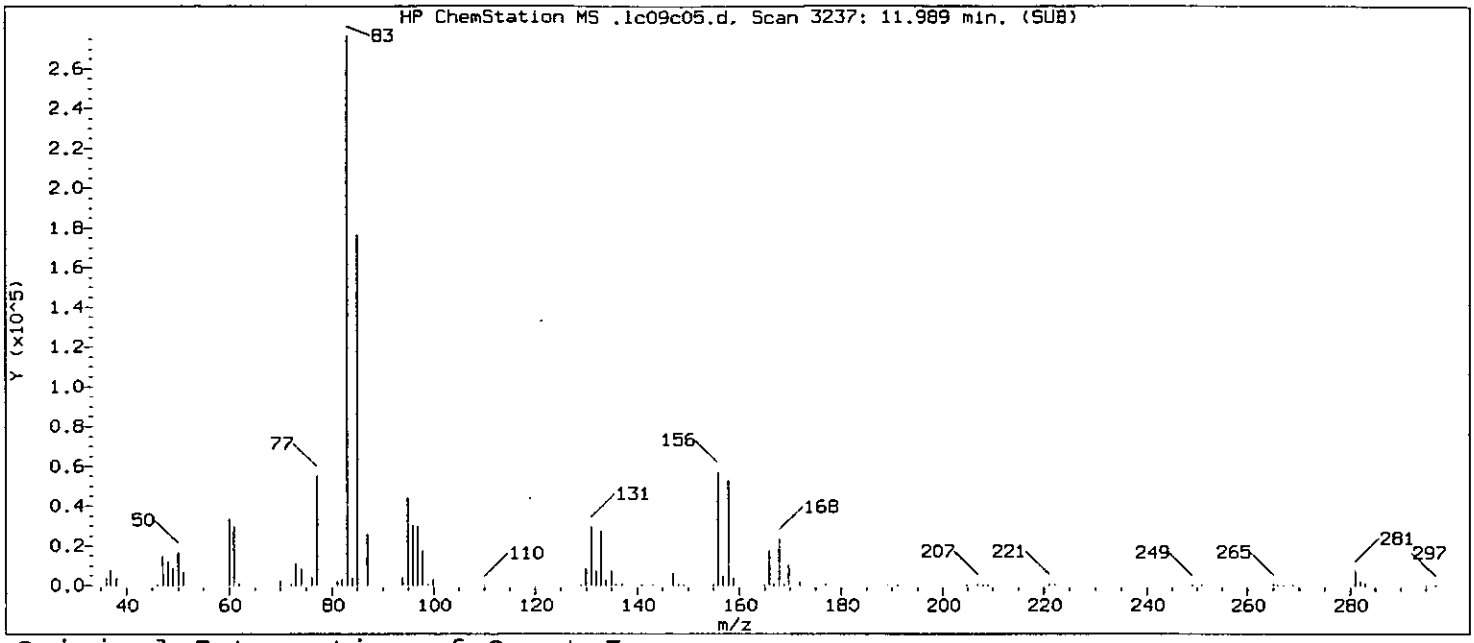
Analyst responsible for change: CBE19CA 10/14/09

PTL03 0422

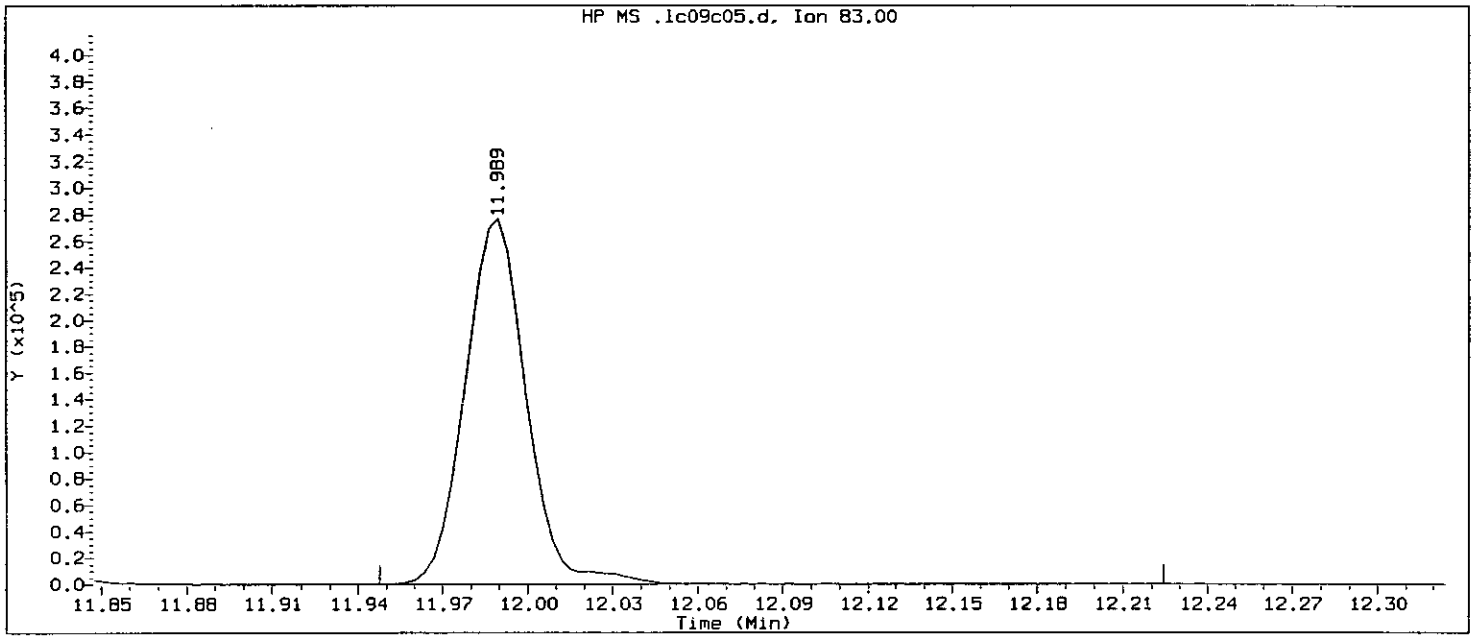
GC/MS audit/management approval: [illegible] 10/14/09

Manual Integration Report for data file /chem/HP09915.i/09oct09b.b/lc09c05.d, generated on 10/12/2009 at 22:35

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct09b.b/lc09c05.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 18:11 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: 8260WI-FR
Calibration date and time: 09-OCT-2009 18:32
Date, time and analyst ID of latest file update: 09-Oct-2009 18:32 kdp02245

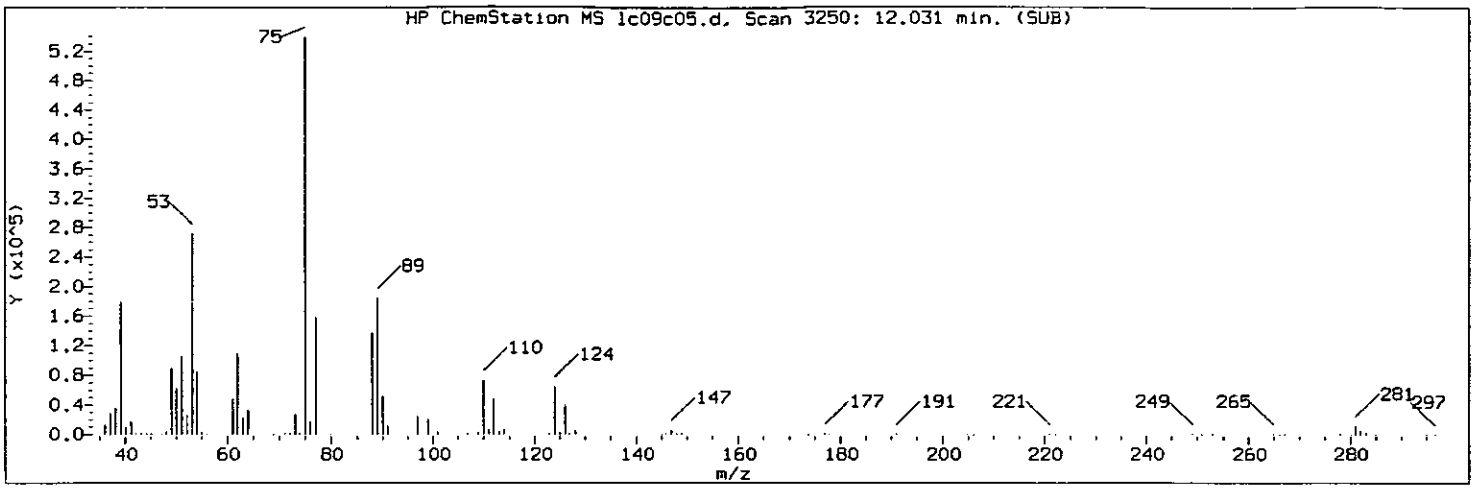
Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	: 120
Compound Name	: 1,1,2,2-Tetrachloroethane
Scan Number	: 3237
Retention Time (minutes)	: 11.989
Quant Ion	: 83
Area	: 411947
Concentration (ug/L)	: 47.9955
Integration start scan	: 3223 Integration stop scan: 3309
Y at integration start	: 0 Y at integration end: 0

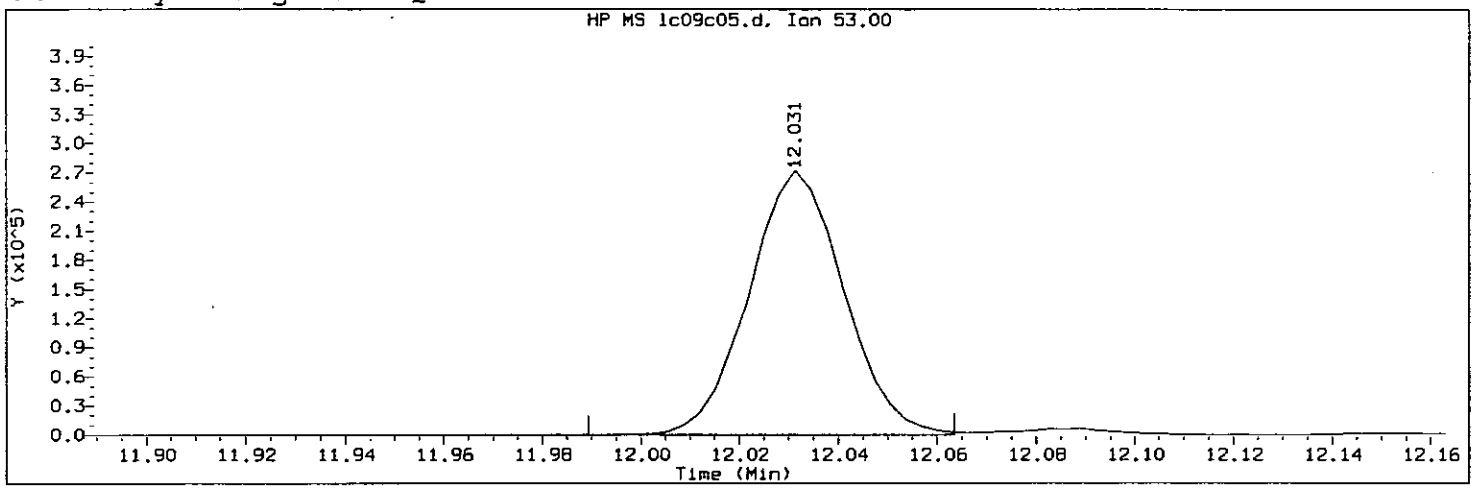
PTL03 0423

Original Integration Report for data file /chem/HP09915.i/09oct09b.b/lc09c05.d, generated on 10/12/2009 at 22:35

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct09b.b/lc09c05.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 18:11 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: 8260WI-FR
Calibration date and time: 12-OCT-2009 22:35
Date, time and analyst ID of latest file update: 12-Oct-2009 22:35 maz02012

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number : 124
Compound Name : trans-1,4-Dichloro-2-Butene
Scan Number : 3250
Retention Time (minutes): 12.031
Quant Ion : 53
Area (flag) : 361983 M
Concentration (ug/L) : 126.1661
Integration start scan : 3236 Integration stop scan: 3259
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

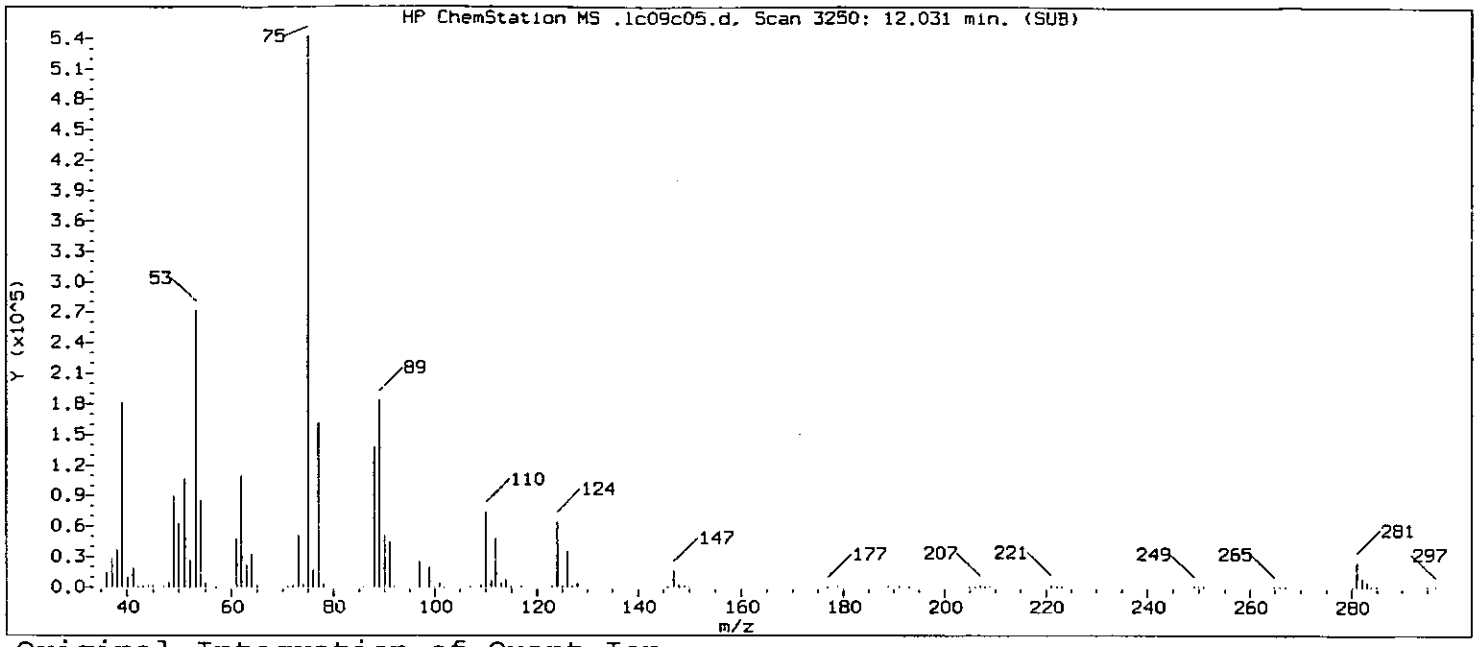
Analyst responsible for change: CBE1947 10/14/09

PTL83 0424

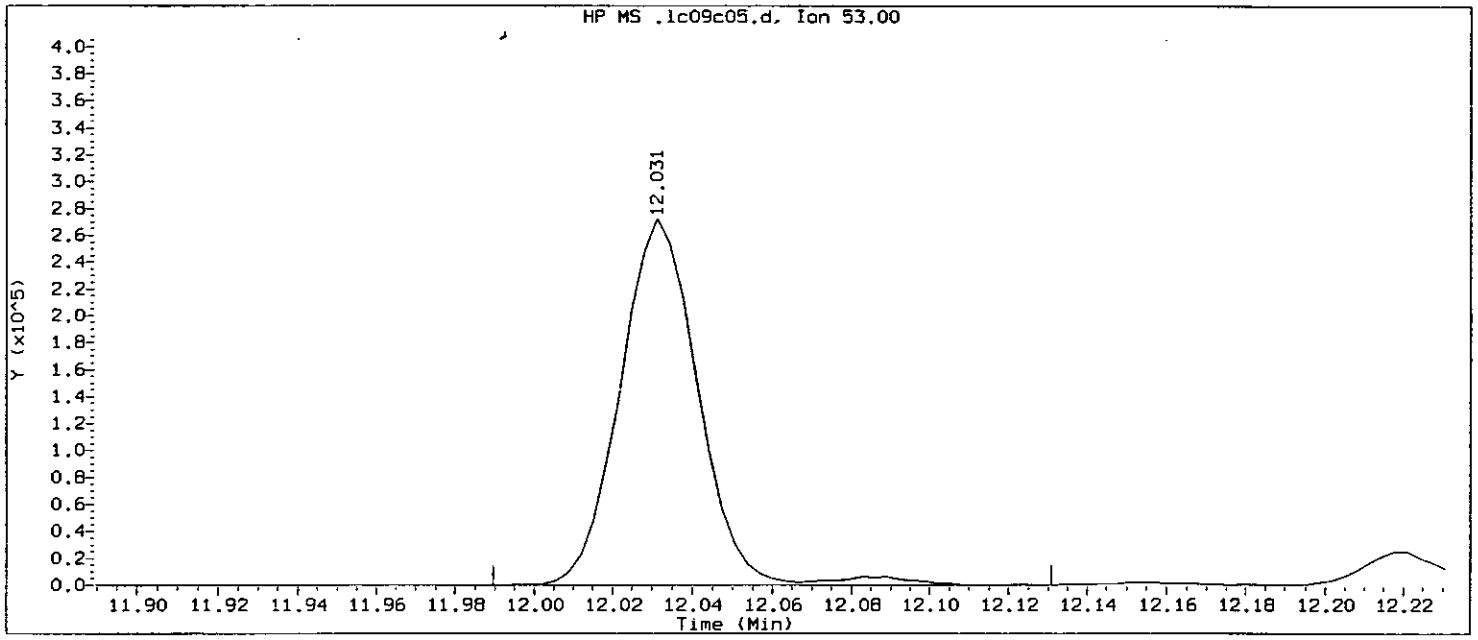
GC/MS audit/management approval: 10/14/09

Manual Integration Report for data file /chem/HP09915.i/09oct09b.b/lc09c05.d, generated on 10/12/2009 at 22:35

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct09b.b/1c09c05.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 18:11 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: 8260WI-FR
Calibration date and time: 09-OCT-2009 18:32
Date, time and analyst ID of latest file update: 09-Oct-2009 18:32 kdp02245

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compound Number	:	124
Compound Name	:	trans-1,4-Dichloro-2-Butene
Scan Number	:	3250
Retention Time (minutes)	:	12.031
Quant Ion	:	53
Area	:	371616
Concentration (ug/L)	:	129.5236
Integration start scan	:	3236 Integration stop scan: 3280
Y at integration start	:	0 Y at integration end: 0

FTL03 0425

Original Integration Report for data file /chem/HP09915.i/09oct09b.b/1c09c05.d, generated on 10/12/2009 at 22:35

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09915 Calibration Date: 10/12/09 Time: 17:56

Lab File ID: lc12c01.d Init. Calib. Date(s): 10/08/09 10/08/09

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	Dichlorodifluoromethane	0.4161	0.4611	55.40	50	11	
#	Chloromethane	0.3593	0.4257	59.24	50	18	#
*	Vinyl Chloride	0.3275	0.3876	59.16	50	18	*
	Bromomethane	0.1697	0.2001	57.71	50	15	
	Chloroethane	0.1567	0.1881	59.35	50	19	
	Trichlorofluoromethane	0.4378	0.4924	56.23	50	12	
	Ethyl Ether	0.1587	0.1770	55.75	50	11	
	Acrolein	1.2961	1.8859	727.51	500	46	
*	1,1-Dichloroethene	0.2168	0.2243	51.71	50	3	*
	Freon 113	0.2539	0.2645	52.10	50	4	
	Acetone	0.1149	0.1348	117.34	100	17	
	2-Propanol	0.8127	0.8211	252.58	250	1	
	Methyl Iodide	0.4671	0.4647	49.74	50	-1	
	Carbon Disulfide	0.9058	0.9245	51.03	50	2	
	Methylene Chloride	0.2953	0.2771	46.92	50	-6	
	t-Butyl Alcohol	1.1733	1.1955	254.74	250	2	
	Acrylonitrile	0.1507	0.1680	55.74	50	11	
	trans-1,2-Dichloroethene	0.2676	0.2702	50.48	50	1	
	Methyl Tertiary Butyl Ether	0.8698	0.8707	50.05	50	0	
	n-Hexane	0.4178	0.4442	53.17	50	6	
	1,2-Dichloroethene (total)	0.2750	0.2771	100.77	100	1	
#	1,1-Dichloroethane	0.4934	0.4934	50.00	50	0	#
	di-Isopropyl Ether	0.9882	1.0123	51.22	50	2	
	2-Chloro-1,3-Butadiene	0.4416	0.4544	51.45	50	3	
	Ethyl t-Butyl Ether	0.8489	0.8738	51.47	50	3	
	cis-1,2-Dichloroethene	0.2825	0.2841	50.29	50	1	
	2-Butanone	0.2087	0.2287	109.55	100	10	
	2,2-Dichloropropane	0.3762	0.3802	50.53	50	1	
	Propionitrile	1.5050	1.5891	263.99	250	6	
	Methacrylonitrile	0.1574	0.1607	127.62	125	2	
	Tetrahydrofuran	1.1236	1.2813	114.03	100	14	
*	Chloroform	0.4447	0.4466	50.22	50	0	*
	1,1,1-Trichloroethane	0.4341	0.4161	47.93	50	-4	
	Cyclohexane	0.5129	0.5281	51.48	50	3	
	1,1-Dichloropropene	0.3734	0.3797	50.83	50	2	
	Carbon Tetrachloride	0.3401	0.3514	51.65	50	3	

PTL03 0426

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09915 Calibration Date: 10/12/09 Time: 17:56

Lab File ID: lc12c01.d Init. Calib. Date(s): 10/08/09 10/08/09

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

	COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT	
	Isobutyl Alcohol	0.4335	0.4507	649.89	625	4	
	Benzene	1.0976	1.0988	50.06	50	0	
	1,2-Dichloroethane	0.3841	0.3884	50.56	50	1	
	t-Amyl Methyl Ether	0.7892	0.7927	50.22	50	0	
	n-Heptane	0.4277	0.4460	52.13	50	4	
	n-Butanol	0.3392	0.3547	1307.04	1250	5	
	Trichloroethene	0.2686	0.2847	53.00	50	6	
*	1,2-Dichloropropane	0.2968	0.2991	50.38	50	1	*
	Dibromomethane	0.1772	0.1797	50.69	50	1	
	Methyl Methacrylate	0.2522	0.2599	51.52	50	3	
	1,4-Dioxane	0.1034	0.1109	670.00	625	7	
	Bromodichloromethane	0.3243	0.3315	51.12	50	2	
	2-Nitropropane	0.0972	0.1078	100.26	100	0	
	2-Chloroethyl Vinyl Ether	0.2170	0.2274	52.41	50	5	
	cis-1,3-Dichloropropene	0.4329	0.4503	52.01	50	4	
	4-Methyl-2-Pentanone	0.4270	0.4678	109.57	100	10	
*	Toluene	0.8896	0.9103	51.16	50	2	*
	trans-1,3-Dichloropropene	0.5620	0.5938	52.83	50	6	
	Ethyl Methacrylate	0.5667	0.5979	52.75	50	5	
	1,1,2-Trichloroethane	0.3311	0.3400	51.34	50	3	
	Tetrachloroethene	0.3934	0.4034	51.27	50	3	
	1,3-Dichloropropane	0.6106	0.6345	51.95	50	4	
	2-Hexanone	0.4357	0.4899	112.44	100	12	
	Dibromochloromethane	0.3706	0.3910	52.75	50	6	
	1,2-Dibromoethane	0.3718	0.3815	51.30	50	3	
#	Chlorobenzene	1.0106	1.0450	51.70	50	3	#
	1,1,1,2-Tetrachloroethane	0.3442	0.3587	52.11	50	4	
*	Ethylbenzene	1.7207	1.7969	52.22	50	4	*
	m+p-Xylene	0.6733	0.7035	52.24	50	4	
	Xylene (Total)	0.6524	0.6900	105.81	100	6	
	o-Xylene	0.6314	0.6764	53.56	50	7	
	Styrene	1.0352	1.1293	54.54	50	9	
#	Bromoform	0.2706	0.2928	54.09	50	8	#
	Isopropylbenzene	1.6458	1.7521	53.23	50	6	
	Cyclohexanone	0.3740	0.3976	664.54	625	6	
#	1,1,2,2-Tetrachloroethane	0.9388	0.9294	49.50	50	-1	#

PTL83 0427

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP09915 Calibration Date: 10/12/09 Time: 17:56

Lab File ID: lc12c01.d Init. Calib. Date(s): 10/08/09 10/08/09

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

COMPOUND	RRF	RRF50	ACTUAL CONC.	TRUE CONC.	% DRIFT
Bromobenzene	0.7674	0.7903	51.49	50	3
1,2,3-Trichloropropane	0.2749	0.2878	52.33	50	5
trans-1,4-Dichloro-2-Butene	0.3138	0.3374	134.40	125	8
n-Propylbenzene	0.8487	0.8776	51.70	50	3
2-Chlorotoluene	0.7261	0.7417	51.08	50	2
1,3,5-Trimethylbenzene	1.2267	1.2841	52.34	50	5
4-Chlorotoluene	0.7556	0.7855	51.98	50	4
tert-Butylbenzene	0.5541	0.5323	48.03	50	-4
1,2,4-Trimethylbenzene	2.5489	2.6096	51.19	50	2
sec-Butylbenzene	0.6401	0.6538	51.07	50	2
1,3-Dichlorobenzene	1.4224	1.4718	51.74	50	3
p-Isopropyltoluene	0.7197	0.7631	53.01	50	6
1,4-Dichlorobenzene	1.5061	1.5372	51.03	50	2
Benzyl Chloride	1.8595	2.0161	54.21	50	8
n-Butylbenzene	1.3039	1.3546	51.94	50	4
1,2-Dichlorobenzene	1.3934	1.4438	51.81	50	4
1,2-Dibromo-3-Chloropropane	0.2028	0.2126	52.43	50	5
1,2,4-Trichlorobenzene	1.0653	1.0851	50.93	50	2
Hexachlorobutadiene	0.5757	0.5317	46.17	50	-8
Naphthalene	3.2156	3.2423	50.41	50	1
1,2,3-Trichlorobenzene	1.0598	1.0682	50.40	50	1
Dibromofluoromethane	0.2559	0.2404	46.97	50	-6
1,2-Dichloroethane-d4	0.0618	0.0577	46.69	50	-7
Toluene-d8	1.3937	1.3637	48.92	50	-2
4-Bromofluorobenzene	0.4944	0.4886	49.41	50	-1

Average %Drift 5

PTL03 8428

Minimum RRF for SPCC(#)=0.10 (0.30 for Chlorobenzene, 1,1,2,2-Tetrachloroethane)
Maximum %Drift for CCC(*)=20%

Lancaster Laboratories
Continuing Calibration Internal Standard Check

Initial Calibration Standards:

/chem/HP09915.i/09oct08i.b/lc08i06.d
/chem/HP09915.i/09oct08i.b/lc08i05.d
/chem/HP09915.i/09oct08i.b/lc08i04.d
/chem/HP09915.i/09oct08i.b/lc08i03.d
/chem/HP09915.i/09oct08i.b/lc08i02.d
/chem/HP09915.i/09oct08i.b/lc08i01.d

File /chem/HP09915.i/09oct08i.b/lc08i03.d is Mid Level Calibration Standard used for comparison.

Current Continuing Calibration Standard:

/chem/HP09915.i/09oct12a.b/lc12c02.d

RT Summary

Internal Standard Name	File ID: lc12c02.d	ICAL RT	In Spec
t-Butyl Alcohol-d10	3.842	3.829	Yes
Fluorobenzene	7.301	7.305	Yes
Chlorobenzene-d5	10.873	10.874	Yes
1,4-Dichlorobenzene-d4	12.767	12.767	Yes

A "No" indicates the retention time is greater than 30 seconds from the referenced ICAL standard.

Area Summary

Internal Standard Name	File ID: lc12c02.d	ICAL Area	Low Limit	High Limit	In Spec
t-Butyl Alcohol-d10	239393	280488	140244	560976	Yes
Fluorobenzene	1221351	1370788	685394	2741576	Yes
Chlorobenzene-d5	884014	1007166	503583	2014332	Yes
1,4-Dichlorobenzene-d4	513969	549741	274870	1099482	Yes

A "No" indicates the internal standard area is outside acceptable QC limits.

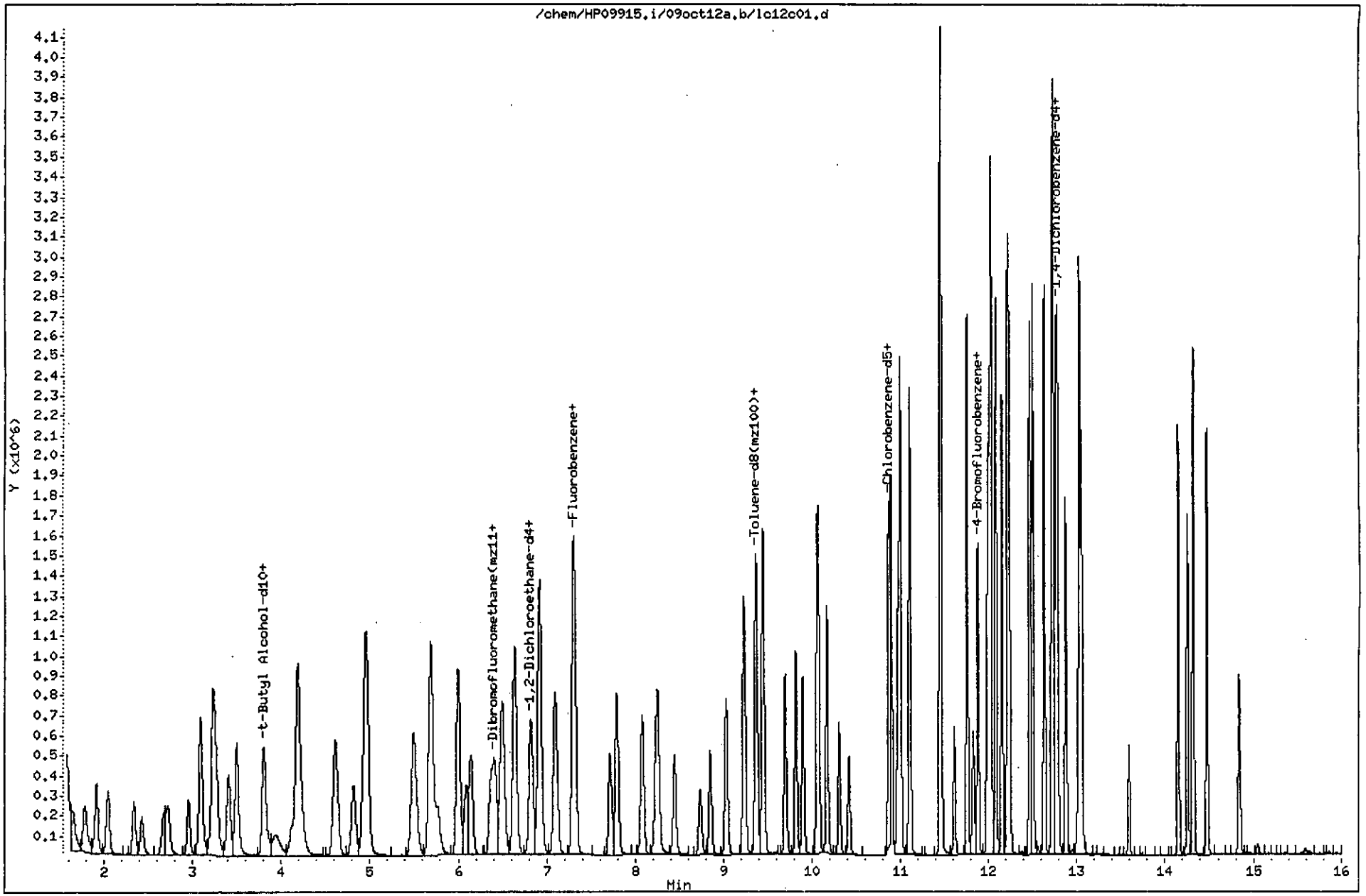
PTL03 8429

Comments: _____

Data File: /chem/HP09915.i/09oct12a.b/lc12c01.d
Date : 12-OCT-2009 17:56
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;1;2;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: MAZ02012
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct12a.b/lc12c01.d Instrument ID: HP09915.i
Injection date and time: 12-OCT-2009 17:56 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct12a.b/L8260W.m Sublist used: 8260W-FRV6
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 19:26 maz02012

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.781	85	572555	55.401
3) Chloromethane	(1)	1.916	50	528628	59.241
4) Vinyl Chloride	(1)	2.044	62	481295	59.165
8) Bromomethane	(1)	2.337	94	248458	57.713
9) Chloroethane	(1)	2.430	64	233570	59.350
11) Trichlorofluoromethane	(1)	2.720	101	611382	56.226
15) Ethyl Ether	(1)	2.957	59	219742	55.745
18) Acrolein	(4)	3.092	56	937945	727.511
19) 1,1-Dichloroethene	(1)	3.228	96	278473	51.710
20) Freon 113	(1)	3.256	101	328464	52.097
21) Acetone	(1)	3.263	43	334850	117.344
22) 2-Propanol	(4)	3.414	45	204190	252.577
23) Methyl Iodide	(1)	3.411	142	577026	49.739
24) Carbon Disulfide	(1)	3.501	76	1148030	51.032
29) Methylene Chloride	(1)	3.803	84	344133	46.919
30)*t-Butyl Alcohol-d10	(4)	3.842	65	248672	250.000
31) t-Butyl Alcohol	(4)	3.945	59	297285	254.735
32) Acrylonitrile	(1)	4.118	53	208662	55.741
33) trans-1,2-Dichloroethene	(1)	4.186	96	335496	50.481
34) Methyl Tertiary Butyl Ether	(1)	4.199	73	1081217	50.052
35) n-Hexane	(1)	4.613	57	551624	53.166
42) 1,2-Dichloroethene (total)	(1)		96	688270	100.769
36) 1,1-Dichloroethane	(1)	4.819	63	612645	49.995
40) di-Isopropyl Ether	(1)	4.948	45	1256974	51.219
41) 2-Chloro-1,3-Butadiene	(1)	4.967	53	564271	51.454
43) Ethyl t-Butyl Ether	(1)	5.501	59	1085103	51.467
44) cis-1,2-Dichloroethene	(1)	5.684	96	352774	50.288
45) 2-Butanone	(1)	5.697	43	567942	109.548
46) 2,2-Dichloropropane	(1)	5.697	77	472075	50.527
47) Propionitrile	(4)	5.774	54	395175	263.985
50) Methacrylonitrile	(1)	5.999	67	498825	127.615
52) Tetrahydrofuran	(4)	6.089	71	127450	114.031
53) Chloroform	(1)	6.147	83	554615	50.219
57) 1,1,1-Trichloroethane	(1)	6.417	97	516737	47.933

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct12a.b/lc12c01.d Instrument ID: HP09915.i
Injection date and time: 12-OCT-2009 17:56 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct12a.b/L8260W.m Sublist used: 8260W-FRV6
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 19:26 maz02012

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
60) Cyclohexane	(1)	6.504	56	655754	51.484
61) 1,1-Dichloropropene	(1)	6.642	75	471448	50.834
62) Carbon Tetrachloride	(1)	6.649	117	436357	51.654
63) Isobutyl Alcohol	(4)	6.813	41	280215	649.889
67) Benzene	(1)	6.919	78	1364476	50.058
68) 1,2-Dichloroethane	(1)	6.935	62	482327	50.556
71) t-Amyl Methyl Ether	(1)	7.099	73	984353	50.221
72) *Fluorobenzene	(1)	7.301	96	1241758	50.000
74) n-Heptane	(1)	7.317	43	553788	52.131
75) n-Butanol	(4)	7.719	56	441013	1307.041
76) Trichloroethene	(1)	7.796	95	353502	53.001
79) 1,2-Dichloropropane	(1)	8.083	63	371451	50.384
80) Dibromomethane	(1)	8.234	93	223127	50.693
81) Methyl Methacrylate	(1)	8.259	69	322729	51.521
82) 1,4-Dioxane	(4)	8.259	88	68919	670.000
84) Bromodichloromethane	(1)	8.446	83	411692	51.120
85) 2-Nitropropane	(1)	8.735	41	267678	100.260
86) 2-Chloroethyl Vinyl Ether	(1)	8.854	63	282374	52.405
87) cis-1,3-Dichloropropene	(1)	9.031	75	559103	52.009
89) 4-Methyl-2-Pentanone	(1)	9.237	43	1161898	109.571
93) Toluene	(2)	9.452	92	827333	51.163
94) trans-1,3-Dichloropropene	(2)	9.703	75	539689	52.831
95) Ethyl Methacrylate	(2)	9.822	69	543349	52.747
96) 1,1,2-Trichloroethane	(2)	9.902	97	309023	51.339
97) Tetrachloroethene	(2)	10.063	166	366661	51.271
98) 1,3-Dichloropropane	(2)	10.079	76	576635	51.953
100) 2-Hexanone	(2)	10.176	43	890502	112.440
102) Dibromochloromethane	(2)	10.311	129	355361	52.753
103) 1,2-Dibromoethane	(2)	10.423	107	346722	51.304
104) *Chlorobenzene-d5	(2)	10.874	117	908828	50.000
105) Chlorobenzene	(2)	10.899	112	949706	51.699
107) 1,1,1,2-Tetrachloroethane	(2)	10.976	131	326000	52.107
108) Ethylbenzene	(2)	11.002	91	1633085	52.215
109) m+p-Xylene	(2)	11.108	106	639387	52.242

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct12a.b/lc12c01.d Instrument ID: HP09915.i
Injection date and time: 12-OCT-2009 17:56 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct12a.b/L8260W.m Sublist used: 8260W-FRV6
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 19:26 maz02012

Sample Name: VSTD050 Lab Sample ID: VSTD050

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
110) Xylene (Total)	(2)		106	1254107	105.805
111) o-Xylene	(2)	11.452	106	614720	53.563
112) Styrene	(2)	11.462	104	1026297	54.543
113) Bromoform	(2)	11.616	173	266103	54.090
115) Isopropylbenzene	(2)	11.761	105	1592385	53.230
117) Cyclohexanone	(4)	11.828	55	247210	664.541
120) 1,1,2,2-Tetrachloroethane	(3)	11.989	83	488536	49.500
122) Bromobenzene	(3)	12.005	156	415416	51.490
123) 1,2,3-Trichloropropane	(3)	12.025	110	151263	52.335
124) trans-1,4-Dichloro-2-Butene	(3)	12.031	53	443404	134.401
125) n-Propylbenzene	(3)	12.089	120	461321	51.703
126) 2-Chlorotoluene	(3)	12.160	126	389901	51.078
127) 1,3,5-Trimethylbenzene	(3)	12.221	120	674986	52.340
128) 4-Chlorotoluene	(3)	12.240	126	412913	51.981
130) tert-Butylbenzene	(3)	12.472	134	279808	48.033
132) 1,2,4-Trimethylbenzene	(3)	12.507	105	1371748	51.190
134) sec-Butylbenzene	(3)	12.636	134	343671	51.069
135) 1,3-Dichlorobenzene	(3)	12.722	146	773651	51.737
136) p-Isopropyltoluene	(3)	12.735	134	401141	53.014
137) *1,4-Dichlorobenzene-d4	(3)	12.767	152	525652	50.000
138) 1,4-Dichlorobenzene	(3)	12.787	146	808030	51.033
140) Benzyl Chloride	(3)	12.880	91	1059777	54.210
143) n-Butylbenzene	(3)	13.031	92	712058	51.944
144) 1,2-Dichlorobenzene	(3)	13.057	146	758928	51.808
146) 1,2-Dibromo-3-Chloropropane	(3)	13.590	75	111759	52.428
147) 1,2,4-Trichlorobenzene	(3)	14.153	180	570359	50.927
148) Hexachlorobutadiene	(3)	14.256	225	279467	46.172
149) Naphthalene	(3)	14.324	128	1704312	50.415
150) 1,2,3-Trichlorobenzene	(3)	14.478	180	561518	50.396
54) $Dibromofluoromethane	(1)	6.369	113	298570	46.972
64) $1,2-Dichloroethane-d4	(1)	6.832	102	71666	46.689
91) $Toluene-d8	(2)	9.375	98	1239352	48.921
119) $4-Bromofluorobenzene	(2)	11.883	95	444013	49.407

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PTL03 8433

Raw QC Data

Data File: /chem/HP09915.i/09sep29c.b/ls29t05.d

Date : 29-SEP-2009 21:18

Client ID: 2UL BFBMAY27-09

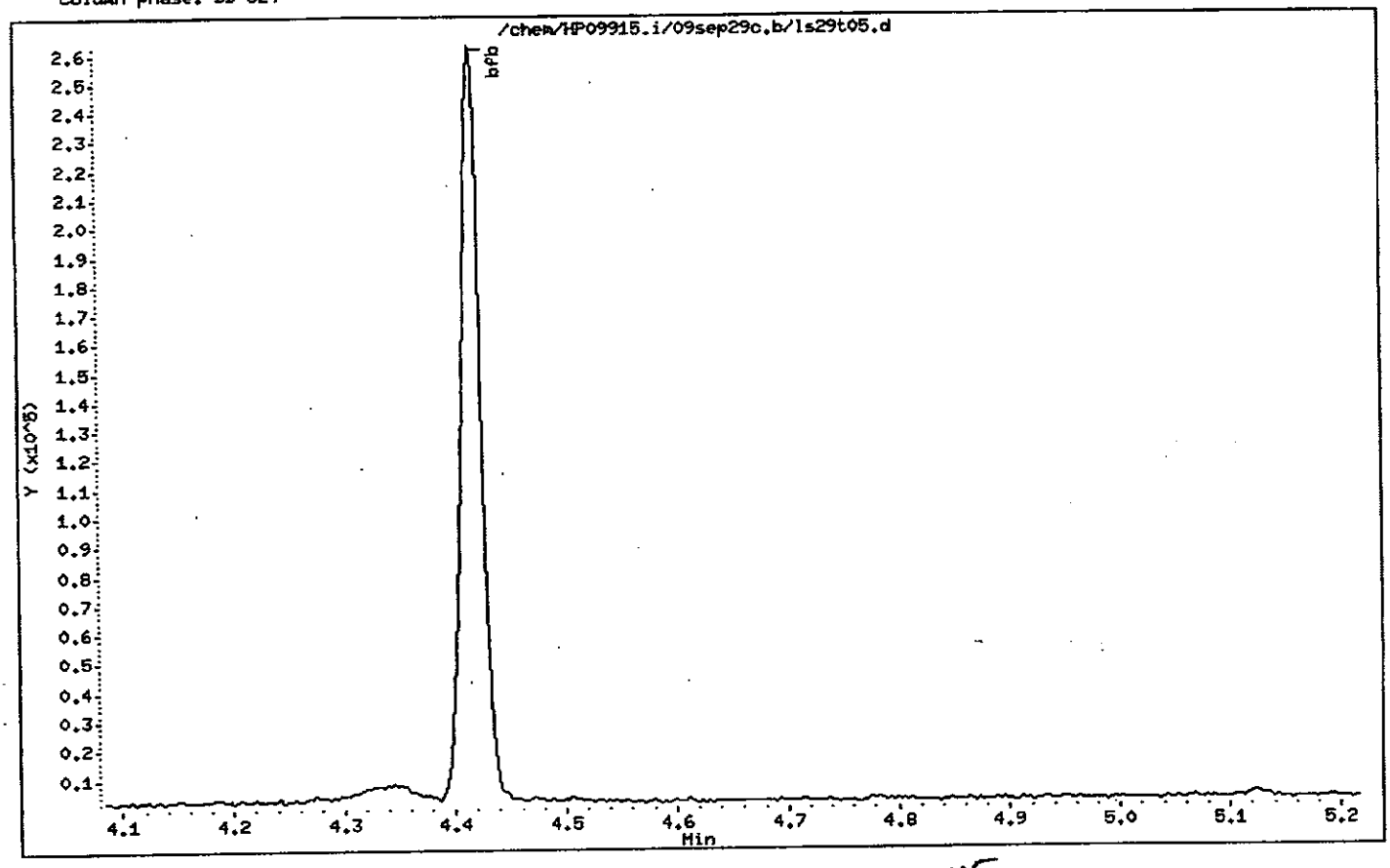
Instrument: HP09915.i

Sample Info: 2UL BFBMAY27-09;50NG BFB;1;3;;;

Operator: KDP02245

Column phase: DB-624

Column diameter: 0.25



KDP2045
9/29/09

Data File: /chem/HP09915.i/09sep29c.b/ls29t05.d

Date : 29-SEP-2009 21:18

Client ID: 2UL BFBMAY27-09

Instrument: HP09915.i

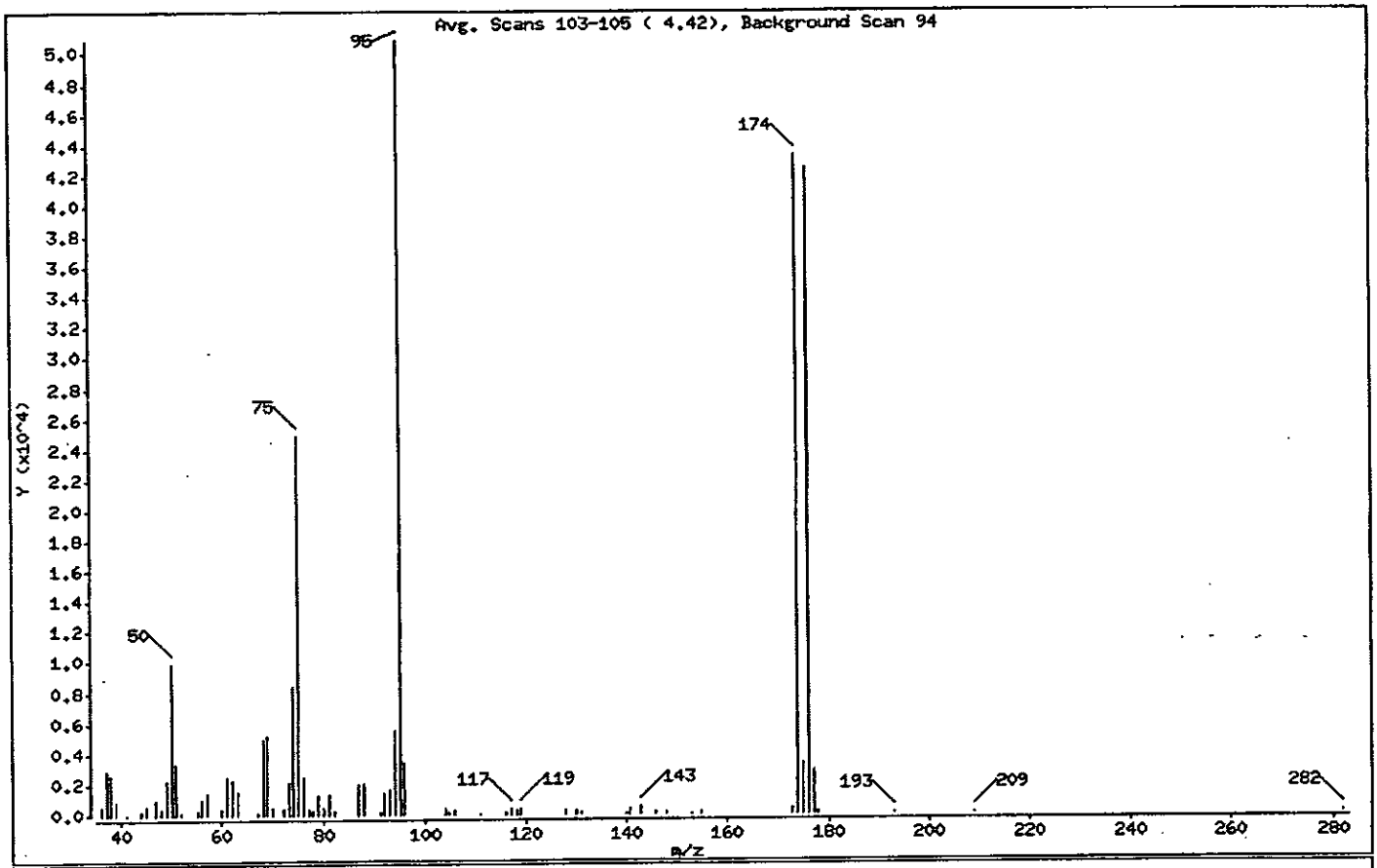
Sample Info: 2UL BFBMAY27-09;50NG BFB;1;3;;;

Operator: KDP02245

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.49
75	30.00 - 60.00% of mass 95	49.02
96	5.00 - 9.00% of mass 95	6.75
173	Less than 2.00% of mass 174	0.75 (0.88)
174	50.00 - 100.00% of mass 95	85.04
175	5.00 - 9.00% of mass 174	6.38 (7.51)
176	95.00 - 101.00% of mass 174	83.48 (98.18)
177	5.00 - 9.00% of mass 176	5.62 (6.73)

Data File: /chem/HP09915.i/09sep29c.b/ls29t05.d

Date : 29-SEP-2009 21:18

Client ID: 2UL BFBMAY27-09

Instrument: HP09915.i

Sample Info: 2UL BFBMAY27-09;50NG BFB;1;3;;;

Operator: KDP02245

Column phase: DB-624

Column diameter: 0.25

Data File: ls29t05.d

Spectrum: Avg. Scans 103-105 (4.42), Background Scan 94

Location of Maximum: 95.00

Number of points: 70

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	513	62.00	2179	88.00	1966	140.00	57
37.00	2895	63.00	1554	91.00	119	141.00	397
38.00	2584	67.00	140	92.00	1380	143.00	481
39.00	825	68.00	4908	93.00	1611	146.00	84
41.00	51	69.00	5111	94.00	5550	148.00	72
44.00	242	70.00	473	95.00	50872	153.00	54
45.00	528	72.00	297	96.00	3435	155.00	129
47.00	898	73.00	2119	104.00	296	173.00	382
48.00	342	74.00	8393	105.00	66	174.00	43256
49.00	2200	75.00	24936	106.00	256	175.00	3248
50.00	9916	76.00	2409	111.00	51	176.00	42472
51.00	3294	77.00	360	116.00	77	177.00	2858
52.00	71	78.00	187	117.00	388	178.00	69
55.00	176	79.00	1343	118.00	250	193.00	54
56.00	892	80.00	425	119.00	301	209.00	56
57.00	1430	81.00	1309	128.00	179	282.00	18
60.00	407	82.00	284	130.00	180		
61.00	2491	87.00	1984	131.00	59		

Data File: /chem/HP09915.i/09oct07b.b/lc07t07.d

Date : 07-OCT-2009 16:47

Client ID: 2UL BFBMAY27-09

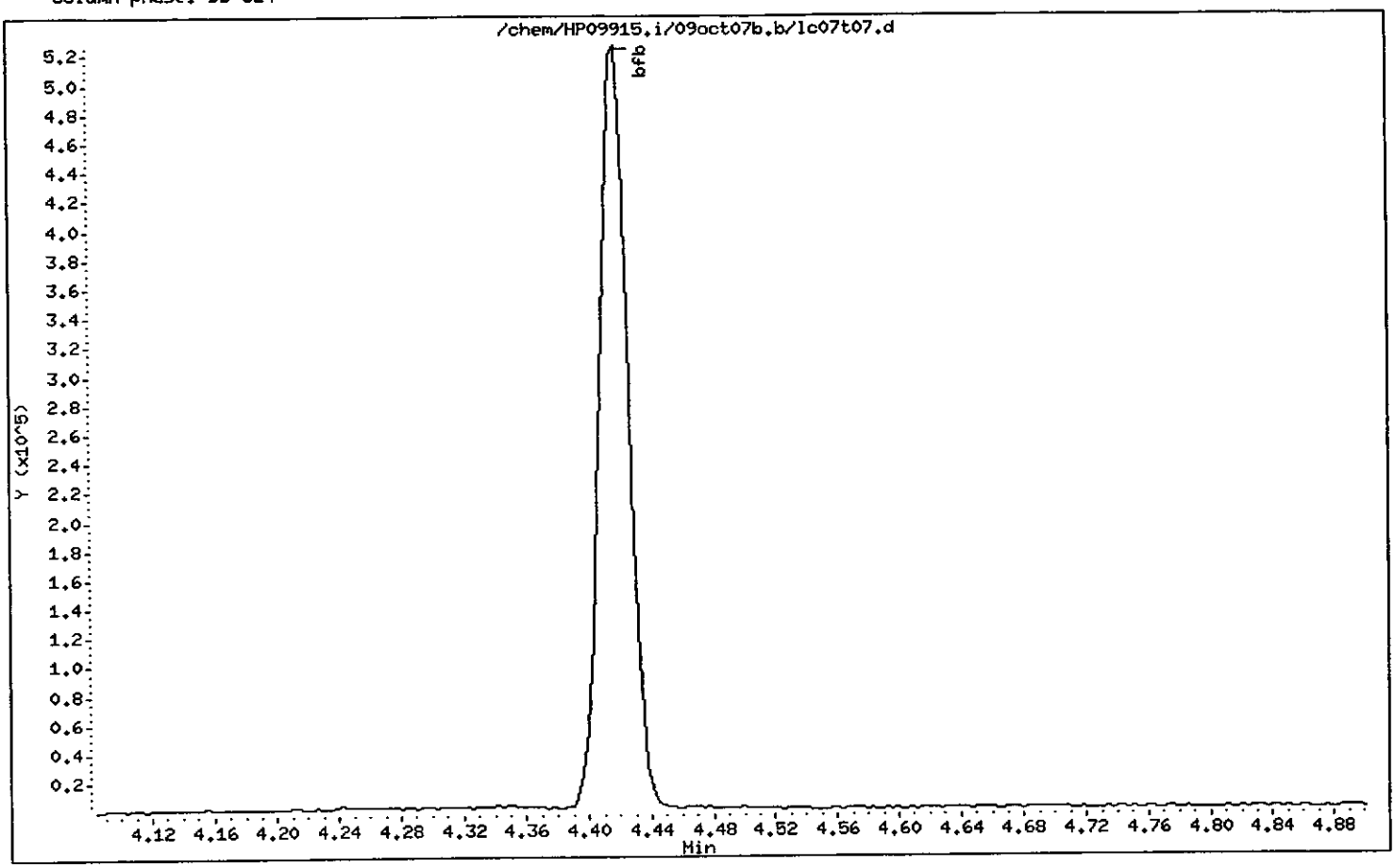
Instrument: HP09915.i

Sample Info: 2UL BFBMAY27-09;50NG BFB;

Operator: NPR02223

Column phase: DB-624

Column diameter: 0.25



NPR2223
10/7/09

PTL03 0433

Data File: /chem/HP09915.i/09oct07b.b/lc07t07.d

Date : 07-OCT-2009 16:47

Client ID: 2UL BFBMAY27-09

Instrument: HP09915.i

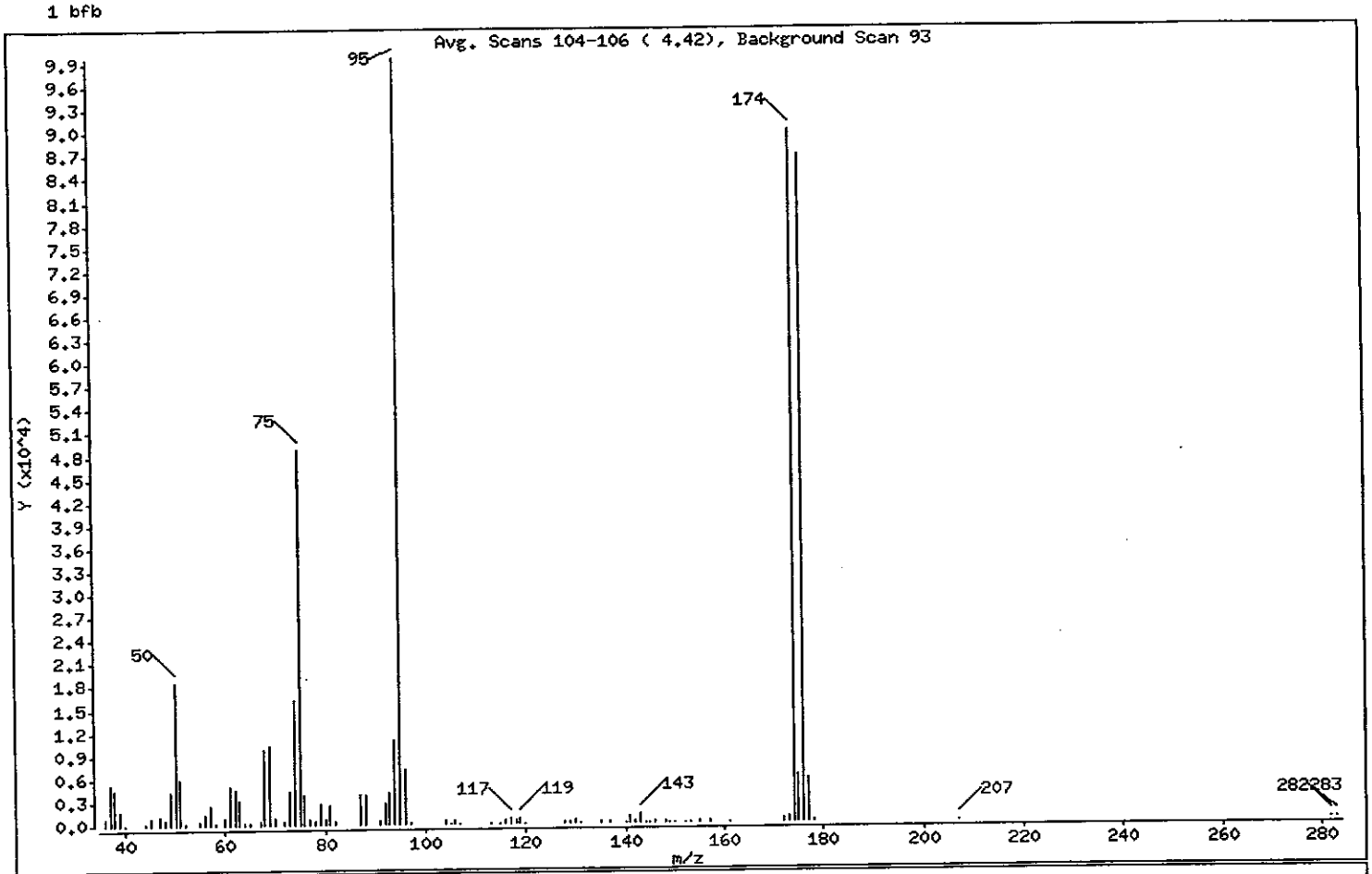
Sample Info: 2UL BFBMAY27-09;50NG BFB;

Operator: NPR02223

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.67
75	30.00 - 60.00% of mass 95	49.07
96	5.00 - 9.00% of mass 95	7.06
173	Less than 2.00% of mass 174	0.80 (0.89)
174	50.00 - 100.00% of mass 95	90.43
175	5.00 - 9.00% of mass 174	6.19 (6.84)
176	95.00 - 101.00% of mass 174	87.23 (96.46)
177	5.00 - 9.00% of mass 176	5.68 (6.51)

PTL83 0439

Data File: /chem/HP09915.i/09oct07b.b/lc07t07.d

Date : 07-OCT-2009 16:47

Client ID: 2UL BFBMAY27-09

Instrument: HP09915.i

Sample Info: 2UL BFBMAY27-09;50NG BFB;

Operator: NPR02223

Column phase: DB-624

Column diameter: 0.25

Data File: lc07t07.d

Spectrum: Avg. Scans 104-106 (4.42), Background Scan 93

Location of Maximum: 95.00

Number of points: 89

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	890	67.00	365	97.00	172	145.00	66
37.00	5243	68.00	9836	104.00	496	146.00	214
38.00	4622	69.00	10368	105.00	60	148.00	276
39.00	1927	70.00	845	106.00	358	149.00	63
40.00	40	72.00	458	107.00	72	150.00	64
44.00	318	73.00	4316	113.00	70	152.00	56
45.00	958	74.00	16210	115.00	62	153.00	51
47.00	1140	75.00	48920	116.00	456	155.00	233
48.00	704	76.00	3861	117.00	693	157.00	131
49.00	4338	77.00	579	118.00	377	161.00	55
50.00	18616	78.00	375	119.00	599	172.00	353
51.00	5907	79.00	2843	120.00	67	173.00	799
52.00	235	80.00	697	128.00	319	174.00	90144
55.00	353	81.00	2512	129.00	177	175.00	6170
56.00	1400	82.00	461	130.00	412	176.00	86960
57.00	2574	87.00	3949	131.00	65	177.00	5665
58.00	141	88.00	3785	135.00	143	178.00	219
60.00	815	91.00	404	137.00	188	207.00	8
61.00	4929	92.00	2805	140.00	110	282.00	55
62.00	4664	93.00	4072	141.00	955	283.00	63
63.00	3196	94.00	11081	142.00	161		
64.00	287	95.00	99688	143.00	1075		
65.00	115	96.00	7038	144.00	55		

Data File: /chem/HP09915.i/09oct08i.b/lc08t01.d

Date : 08-OCT-2009 16:42

Client ID: 2UL BFBMAY27-09

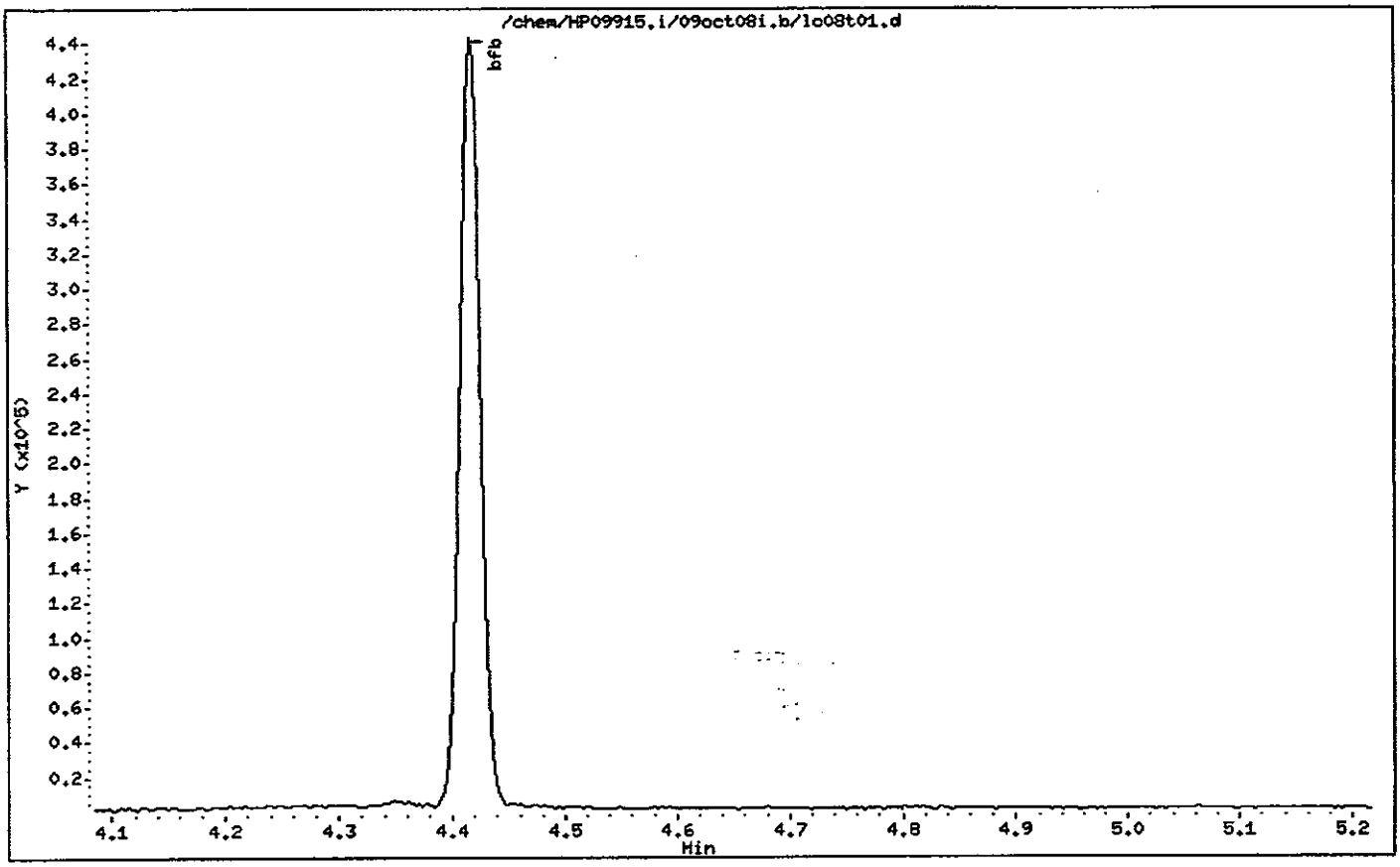
Instrument: HP09915.i

Sample Info: 2UL BFBMAY27-09;50NG BFB;

Operator: MAZ02012

Column phase: DB-624

Column diameter: 0.25



MAZ/20L
10/8/09

Data File: /chem/HP09915.i/09oct08i.b/lc08t01.d

Date : 08-OCT-2009 16:42

Client ID: 2UL BFBHAY27-09

Instrument: HP09915.i

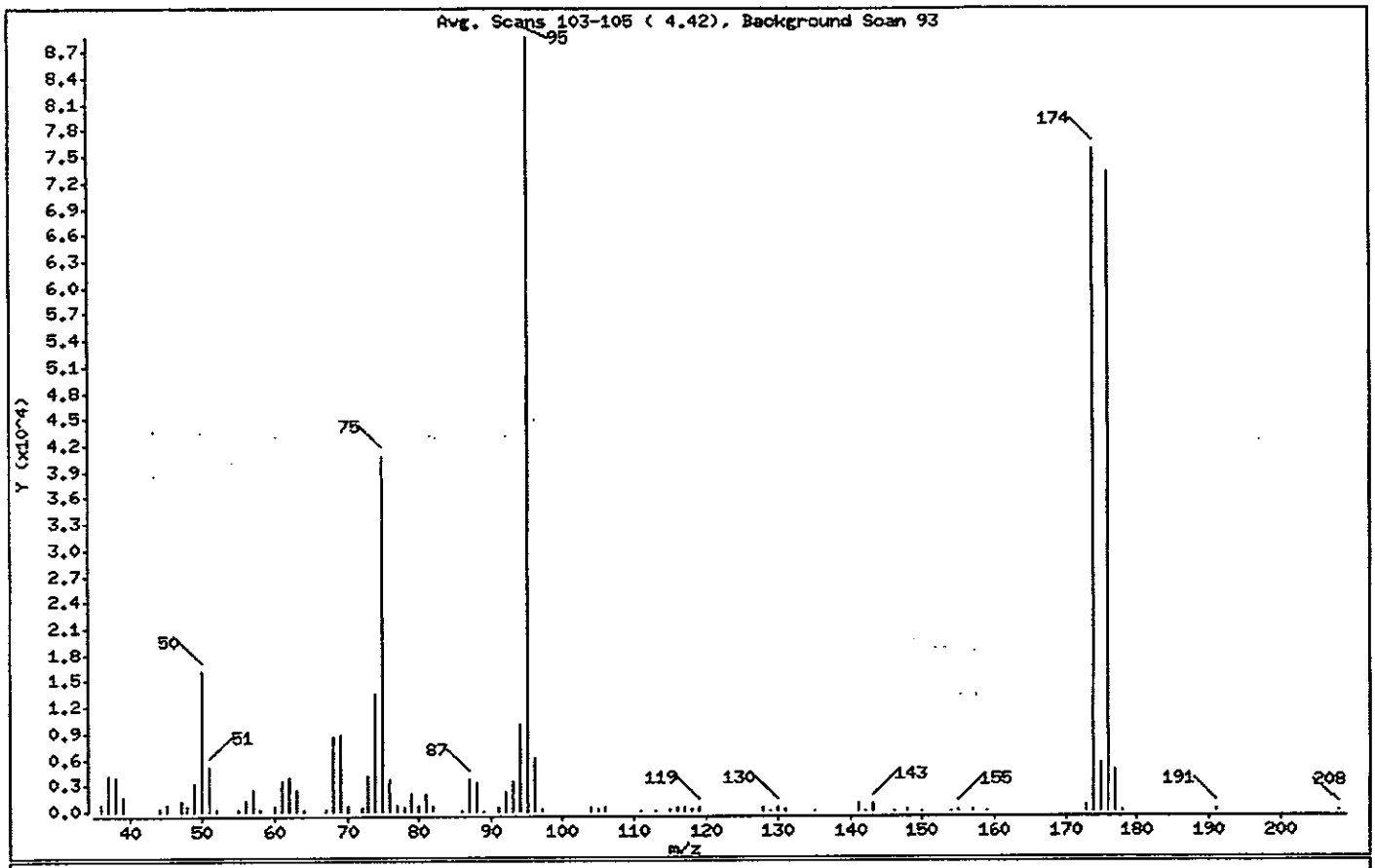
Sample Info: 2UL BFBHAY27-09;50NG BFB;

Operator: HAZ02012

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.16
75	30.00 - 60.00% of mass 95	46.07
96	5.00 - 9.00% of mass 95	6.86
173	Less than 2.00% of mass 174	0.78 (0.91)
174	50.00 - 100.00% of mass 95	85.60
175	5.00 - 9.00% of mass 174	6.10 (7.13)
176	95.00 - 101.00% of mass 174	82.52 (96.40)
177	5.00 - 9.00% of mass 176	5.23 (6.34)

Data File: /chem/HP09915.i/09oct08i.b/lc08t01.d

Date : 08-OCT-2009 16:42

Client ID: 2UL BFBMAY27-09

Instrument: HP09915.i

Sample Info: 2UL BFBMAY27-09;50NG BFB;

Operator: MAZ02012

Column phase: DB-624

Column diameter: 0.25

Data File: lc08t01.d
Spectrum: Avg. Scans 103-105 (4.42), Background Scan 93
Location of Maximum: 95.00
Number of points: 80

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	754	67.00	266	93.00	3378	142.00	57
37.00	4169	68.00	8648	94.00	9938	143.00	776
38.00	3834	69.00	8768	95.00	88688	146.00	72
39.00	1704	70.00	704	96.00	6080	148.00	203
44.00	340	72.00	362	97.00	180	150.00	51
45.00	862	73.00	4138	104.00	454	154.00	63
47.00	1184	74.00	13397	105.00	179	155.00	213
48.00	523	75.00	40856	106.00	413	157.00	111
49.00	3352	76.00	3578	111.00	56	159.00	53
50.00	16104	77.00	623	113.00	64	173.00	692
51.00	5169	78.00	437	115.00	128	174.00	75912
52.00	209	79.00	2073	116.00	319	175.00	5411
55.00	227	80.00	699	117.00	341	176.00	73184
56.00	1308	81.00	2002	118.00	219	177.00	4638
57.00	2534	82.00	533	119.00	366	178.00	63
58.00	111	86.00	85	128.00	307	191.00	104
60.00	650	87.00	3681	129.00	70	208.00	53
61.00	3392	88.00	3287	130.00	374		
62.00	3864	89.00	53	131.00	170		
63.00	2501	91.00	320	135.00	75		
64.00	263	92.00	2251	141.00	772		

Data File: /chem/HP09915.i/09oct09b.b/lc09t02.d

Date : 09-OCT-2009 17:50

Client ID: BFBMAY27-09

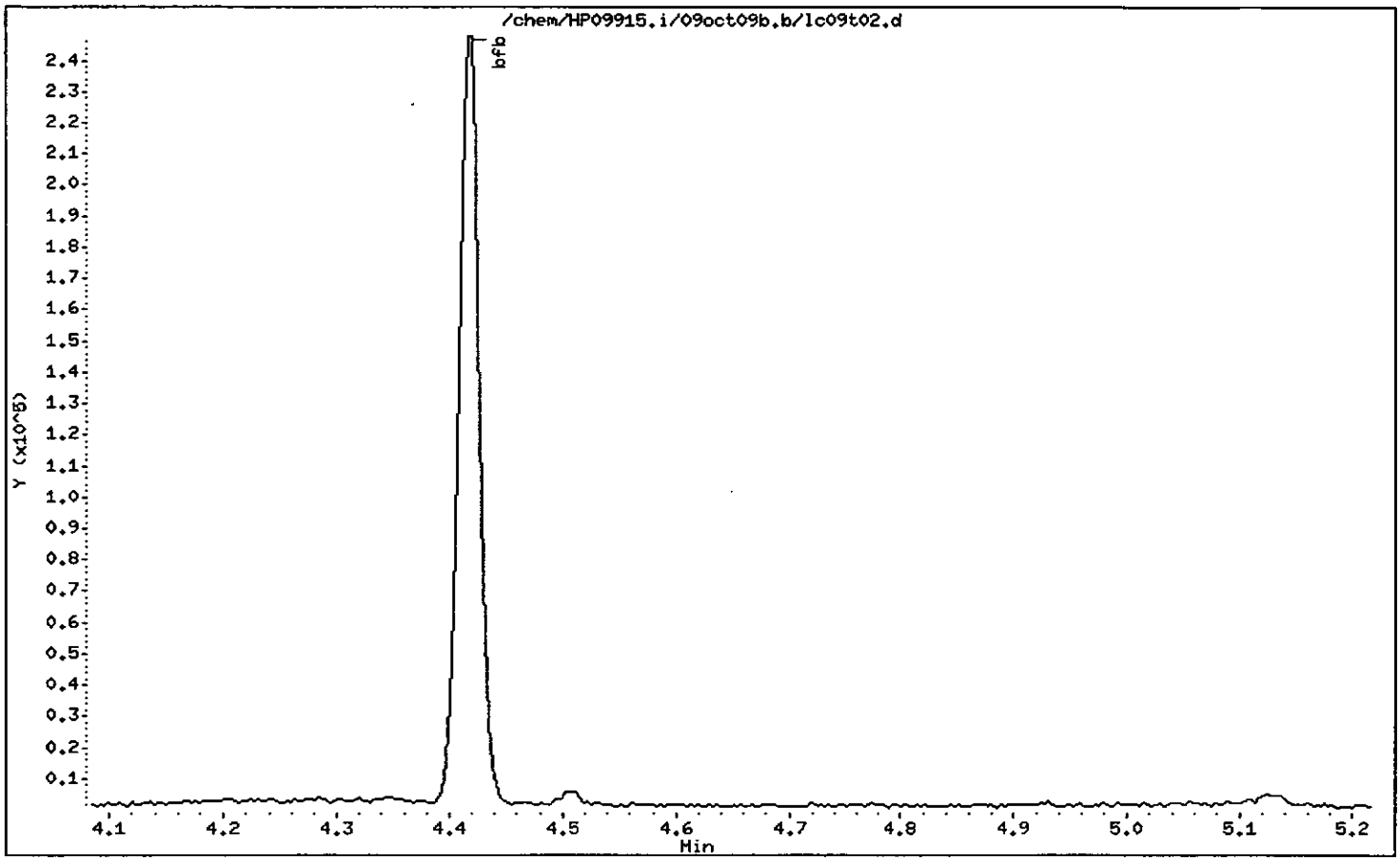
Instrument: HP09915.i

Sample Info: BFBMAY27-09;50NG BFB;1;3;;;;;;;

Operator: KDP02245

Column phase: DB-624

Column diameter: 0.25



KDP 02245
10/9/09

Data File: /chem/HP09915.i/09oct09b.b/lc09t02.d

Date : 09-OCT-2009 17:50

Client ID: BFBMAY27-09

Instrument: HP09915.i

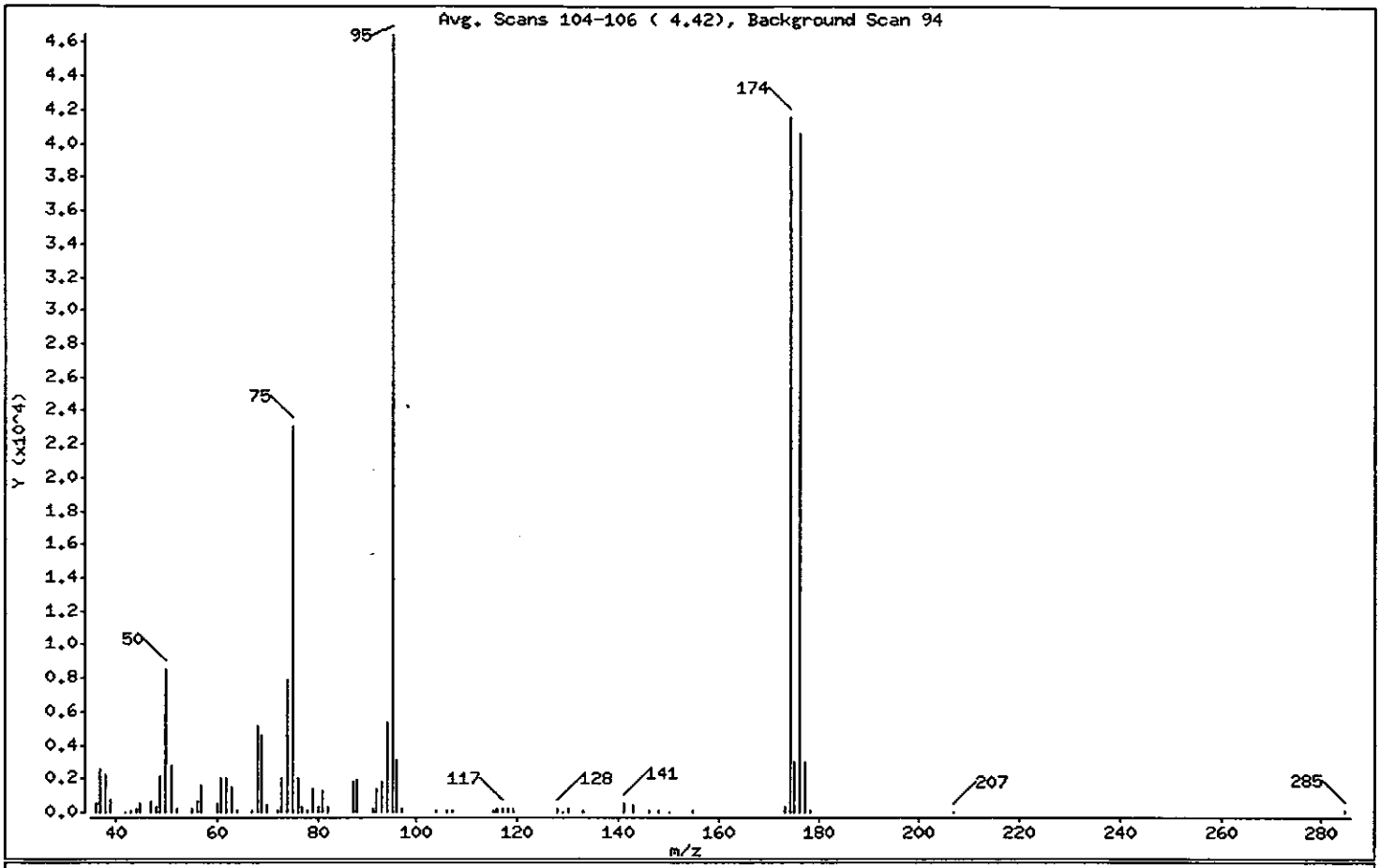
Sample Info: BFBMAY27-09;50NG BFB;1;3;;;;;;;

Operator: KDP02245

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.30
75	30.00 - 60.00% of mass 95	49.70
96	5.00 - 9.00% of mass 95	6.75
173	Less than 2.00% of mass 174	0.76 (0.84)
174	50.00 - 100.00% of mass 95	89.47
175	5.00 - 9.00% of mass 174	6.54 (7.31)
176	95.00 - 101.00% of mass 174	87.37 (97.66)
177	5.00 - 9.00% of mass 176	6.46 (7.40)

Data File: /chem/HP09915.i/09oct09b.b/lc09t02.d

Date : 09-OCT-2009 17:50

Client ID: BFBMAY27-09

Instrument: HP09915.i

Sample Info: BFBMAY27-09;50NG BFB;1;3;;;;;;;

Operator: KDP02245

Column phase: DB-624

Column diameter: 0.25

Data File: lc09t02.d

Spectrum: Avg. Scans 104-106 (4.42), Background Scan 94

Location of Maximum: 95.00

Number of points: 72

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	506	62.00	2044	88.00	1943	133.00	87
37.00	2578	63.00	1536	91.00	183	141.00	517
38.00	2207	64.00	111	92.00	1374	143.00	459
39.00	795	67.00	137	93.00	1814	146.00	75
42.00	50	68.00	5104	94.00	5311	148.00	58
43.00	58	69.00	4568	95.00	46480	150.00	51
44.00	259	70.00	419	96.00	3138	155.00	72
45.00	529	72.00	138	97.00	235	173.00	351
47.00	615	73.00	2075	104.00	64	174.00	41584
48.00	305	74.00	7898	106.00	104	175.00	3042
49.00	2160	75.00	23096	107.00	69	176.00	40608
50.00	8507	76.00	2044	115.00	62	177.00	3005
51.00	2793	77.00	358	116.00	259	178.00	59
52.00	239	78.00	129	117.00	266	207.00	3
55.00	181	79.00	1389	118.00	235	285.00	57
56.00	688	80.00	343	119.00	253		
57.00	1594	81.00	1275	128.00	182		
60.00	545	82.00	347	129.00	53		
61.00	2042	87.00	1799	130.00	180		

Data File: /chem/HP09915.i/09oct12a.b/lc12t01.d

Date : 12-OCT-2009 17:19

Client ID: BFBMAY27-09

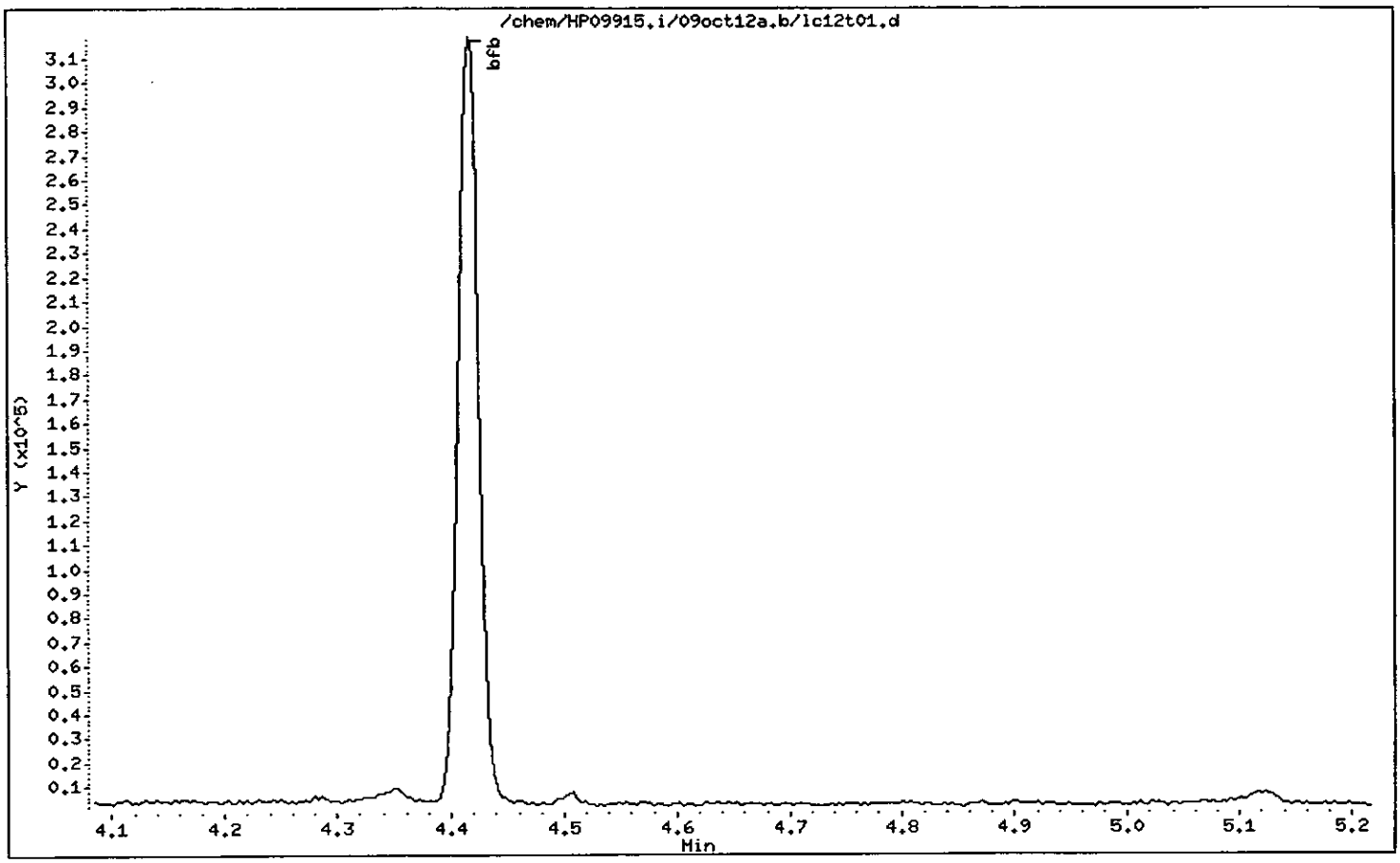
Instrument: HP09915.i

Sample Info: BFBMAY27-09;50NG BFB;

Operator: MAZ02012

Column phase: DB-624

Column diameter: 0.25



MA/mz
10/12/09

Data File: /chem/HP09915.i/09oct12a.b/lc12t01.d

Date : 12-OCT-2009 17:19

Client ID: BFBMAY27-09

Instrument: HP09915.i

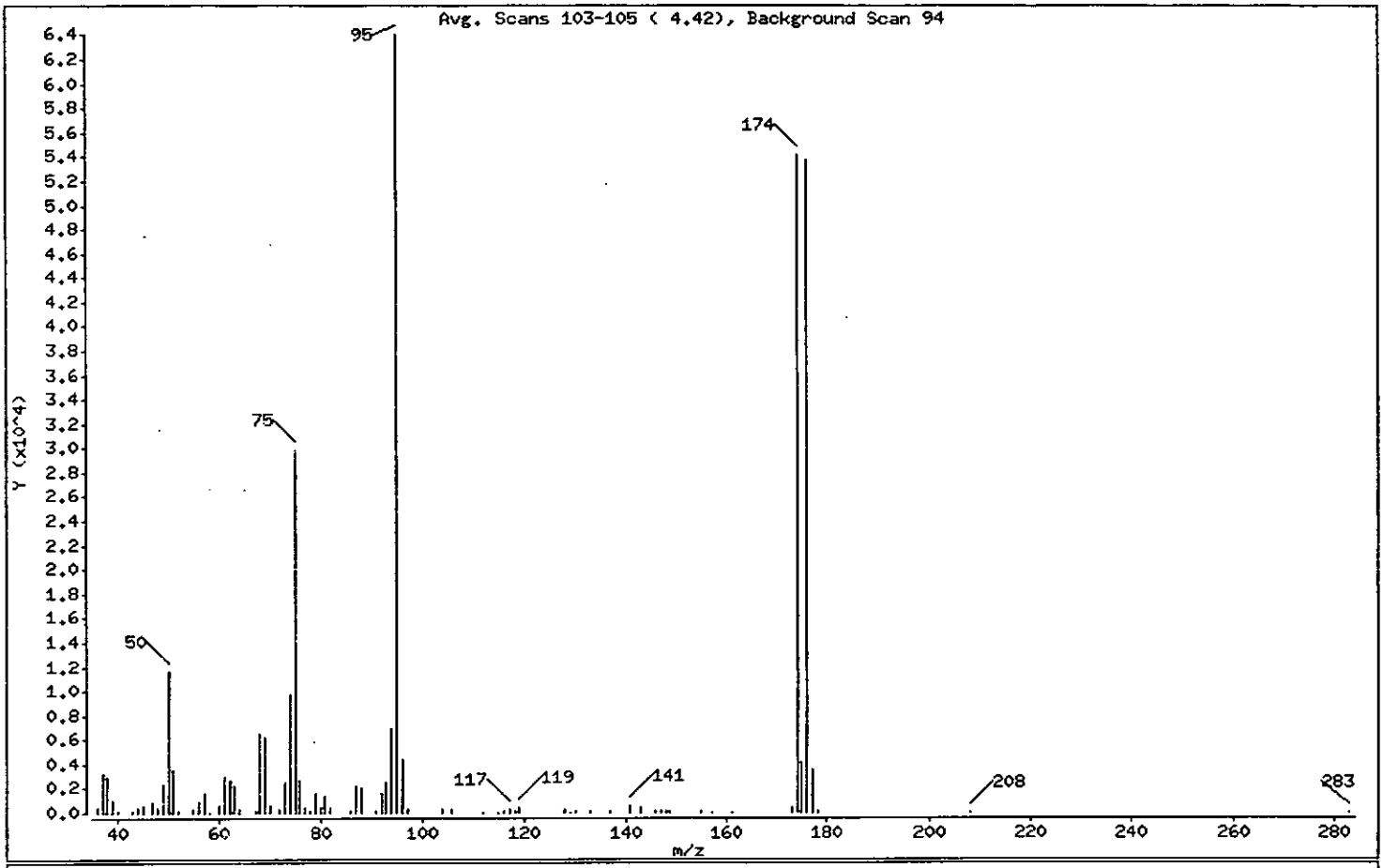
Sample Info: BFBMAY27-09;50NG BFB;

Operator: MAZ02012

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.25
75	30.00 - 60.00% of mass 95	46.60
96	5.00 - 9.00% of mass 95	6.85
173	Less than 2.00% of mass 174	0.65 (0.77)
174	50.00 - 100.00% of mass 95	84.51
175	5.00 - 9.00% of mass 174	6.47 (7.65)
176	95.00 - 101.00% of mass 174	83.92 (99.29)
177	5.00 - 9.00% of mass 176	5.41 (6.45)

Data File: /chem/HP09915.i/09oct12a.b/lc12t01.d

Date : 12-OCT-2009 17:19

Client ID: BFBMAY27-09 Instrument: HP09915.i

Sample Info: BFBMAY27-09;50NG BFB;

Operator: MAZ02012

Column phase: DB-624 Column diameter: 0.25

Data File: lc12t01.d

Spectrum: Avg. Scans 103-105 (4.42), Background Scan 94

Location of Maximum: 95.00

Number of points: 78

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	434	62.00	2689	88.00	2089	137.00	129
37.00	3235	63.00	2233	91.00	216	141.00	662
38.00	2890	64.00	248	92.00	1646	143.00	454
39.00	1094	67.00	122	93.00	2559	146.00	113
40.00	112	68.00	6432	94.00	6980	147.00	120
43.00	75	69.00	6159	95.00	64072	148.00	192
44.00	374	70.00	642	96.00	4390	149.00	110
45.00	659	72.00	336	97.00	244	155.00	116
47.00	943	73.00	2431	104.00	321	157.00	67
48.00	407	74.00	9784	106.00	307	161.00	67
49.00	2308	75.00	29856	112.00	52	173.00	417
50.00	11695	76.00	2627	115.00	72	174.00	54152
51.00	3540	77.00	387	116.00	219	175.00	4145
52.00	214	78.00	163	117.00	328	176.00	53768
55.00	224	79.00	1587	118.00	116	177.00	3467
56.00	890	80.00	437	119.00	384	178.00	128
57.00	1592	81.00	1501	128.00	288	208.00	56
58.00	51	82.00	419	129.00	65	283.00	50
60.00	536	86.00	77	130.00	214		
61.00	2919	87.00	2262	133.00	146		

VBLKL28

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKL28

File: /chem/HP09915.i/09oct07b.b/lc07b03.d
Sample: VBLKL28;VBLKL28;1;3;;;;;;;
Injected At:07-OCT-2009 17:30
Calibration Time: 29-SEP-2009 21:39
Target Method: L8260W.m
Blank Reference:
Sublist: 8260W

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.842(-0.003)	703	65	211729(-5)	250.00	
72) Fluorobenzene	7.305(0.000)	1780	96	1133576(1)	50.00	
104) Chlorobenzene-d5	10.870(0.003)	2889	117	839756(0)	50.00	
137) 1,4-Dichlorobenzene-d4	12.768(0.000)	3479	152	467085(-4)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.372(0.000)	113	278393	50.966	102%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.842(-0.001)	102	65368	49.505	99%		77 - 113
91) Toluene-d8	(2)	9.375(-0.001)	98	1130252	51.522	103%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.880(0.000)	95	400129	49.622	99%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
8) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
10) Dichlorofluoromethane	(1)				ND	ND			2.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
15) Ethyl Ether	(1)				ND	ND			2.00	5.00
16) Freon 123a	(1)				ND	ND			2.00	5.00
18) Acrolein	(4)				ND	ND			40.00	100.00
19) 1,1-Dichloroethene	(1)				ND	ND			0.80	5.00
20) Freon 113	(1)				ND	ND			2.00	10.00
21) Acetone	(1)				ND	ND			6.00	20.00
22) 2-Propanol	(4)				ND	ND			50.00	100.00
23) Methyl Iodide	(1)				ND	ND			1.00	5.00
24) Carbon Disulfide	(1)				ND	ND			1.00	5.00
27) Allyl Chloride	(1)				ND	ND			1.00	5.00
28) Methyl Acetate	(1)				ND	ND			1.00	5.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
31) t-Butyl Alcohol	(4)				ND	ND			10.00	80.00
32) Acrylonitrile	(1)				ND	ND			4.00	20.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
35) n-Hexane	(1)				ND	ND			2.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0458

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKL28

File: /chem/HP09915.i/09oct07b.b/lc07b03.d
Sample: VBLKL28;VBLKL28;1;3;;;;;;;
Injected At:07-OCT-2009 17:30
Calibration Time: 29-SEP-2009 21:39
Target Method: L8260W.m
Blank Reference:
Sublist: 8260W

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
42) 1,2-Dichloroethene (total)	(1)					ND	ND			0.80	5.00
36) 1,1-Dichloroethane	(1)					ND	ND			1.00	5.00
40) di-Isopropyl Ether	(1)					ND	ND			0.80	5.00
41) 2-Chloro-1,3-Butadiene	(1)					ND	ND			1.00	5.00
43) Ethyl t-Butyl Ether	(1)					ND	ND			0.80	5.00
44) cis-1,2-Dichloroethene	(1)					ND	ND			0.80	5.00
45) 2-Butanone	(1)					ND	ND			3.00	10.00
46) 2,2-Dichloropropane	(1)					ND	ND			1.00	5.00
47) Propionitrile	(4)					ND	ND			30.00	100.00
50) Methacrylonitrile	(1)					ND	ND			10.00	50.00
51) Bromochloromethane	(1)					ND	ND			1.00	5.00
52) Tetrahydrofuran	(4)					ND	ND			4.00	10.00
53) Chloroform	(1)					ND	ND			0.80	5.00
57) 1,1,1-Trichloroethane	(1)					ND	ND			0.80	5.00
60) Cyclohexane	(1)					ND	ND			2.00	5.00
61) 1,1-Dichloropropene	(1)					ND	ND			1.00	5.00
62) Carbon Tetrachloride	(1)					ND	ND			1.00	5.00
63) Isobutyl Alcohol	(4)					ND	ND			100.00	250.00
67) Benzene	(1)					ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)					ND	ND			1.00	5.00
71) t-Amyl Methyl Ether	(1)					ND	ND			0.80	5.00
74) n-Heptane	(1)					ND	ND			2.00	5.00
75) n-Butanol	(4)					ND	ND			100.00	250.00
76) Trichloroethene	(1)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0451

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKL28

File: /chem/HP09915.i/09oct07b.b/lc07b03.d
Sample: VBLKL28;VBLKL28;1;3;;;;;;;
Injected At:07-OCT-2009 17:30
Calibration Time: 29-SEP-2009 21:39
Target Method: L8260W.m
Blank Reference:
Sublist: 8260W

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
77) Methylcyclohexane	(1)					ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)					ND	ND			1.00	5.00
80) Dibromomethane	(1)					ND	ND			1.00	5.00
81) Methyl Methacrylate	(1)					ND	ND			1.00	5.00
82) 1,4-Dioxane	(4)					ND	ND			70.00	250.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
85) 2-Nitropropane	(1)					ND	ND			2.00	10.00
86) 2-Chloroethyl Vinyl Ether	(1)					ND	ND			2.00	10.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
95) Ethyl Methacrylate	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
100) 2-Hexanone	(2)					ND	ND			3.00	10.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
107) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
108) Ethylbenzene	(2)					ND	ND			0.80	5.00
109) m+p-Xylene	(2)					ND	ND			0.80	5.00
110) Xylene (Total)	(2)					ND	ND			0.80	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0452

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKL28

File: /chem/HP09915.i/09oct07b.b/lc07b03.d
Sample: VBLKL28;VBLKL28;1;3;;;;;;;
Injected At:07-OCT-2009 17:30
Calibration Time: 29-SEP-2009 21:39
Target Method: L8260W.m
Blank Reference:
Sublist: 8260W

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
111) o-Xylene	(2)					ND	ND			0.80	5.00
112) Styrene	(2)					ND	ND			1.00	5.00
113) Bromoform	(2)					ND	ND			1.00	5.00
115) Isopropylbenzene	(2)					ND	ND			1.00	5.00
117) Cyclohexanone	(4)					ND	ND			55.00	250.00
120) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
124) trans-1,4-Dichloro-2-Butene	(3)					ND	ND			15.00	50.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
131) Pentachloroethane	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
139) 1,2,3-Trimethylbenzene	(3)					ND	ND			1.00	5.00
140) Benzyl Chloride	(3)					ND	ND			1.00	5.00
141) 1,3-Diethylbenzene	(3)					ND	ND			1.00	5.00
142) 1,4-Diethylbenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0453

VBLKL28

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKL28

File: /chem/HP09915.i/09oct07b.b/lc07b03.d
Sample: VBLKL28;VBLKL28;1;3;;;;;;;
Injected At:07-OCT-2009 17:30
Calibration Time: 29-SEP-2009 21:39
Target Method: L8260W.m
Blank Reference:
Sublist: 8260W

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
143) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00
145) 1,2-Diethylbenzene	(3)					ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
147) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
148) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
149) Naphthalene	(3)					ND	ND			1.00	5.00
150) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00
152) 2-Methylnaphthalene	(3)					ND	ND			2.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

Analyst: NPR02223 Date: 10/7/09

Auditor: Date: 10/8/09

PTL83 0454

Data File: /chem/HP09915.i/09oct07b.b/lc07b03.d
Date : 07-OCT-2009 17:30
Client ID: VBLKL28
Sample Info: VBLKL28;VBLKL28;1;3;;;;;;;
Purge Volume: 5.0
Column phase: DB-624

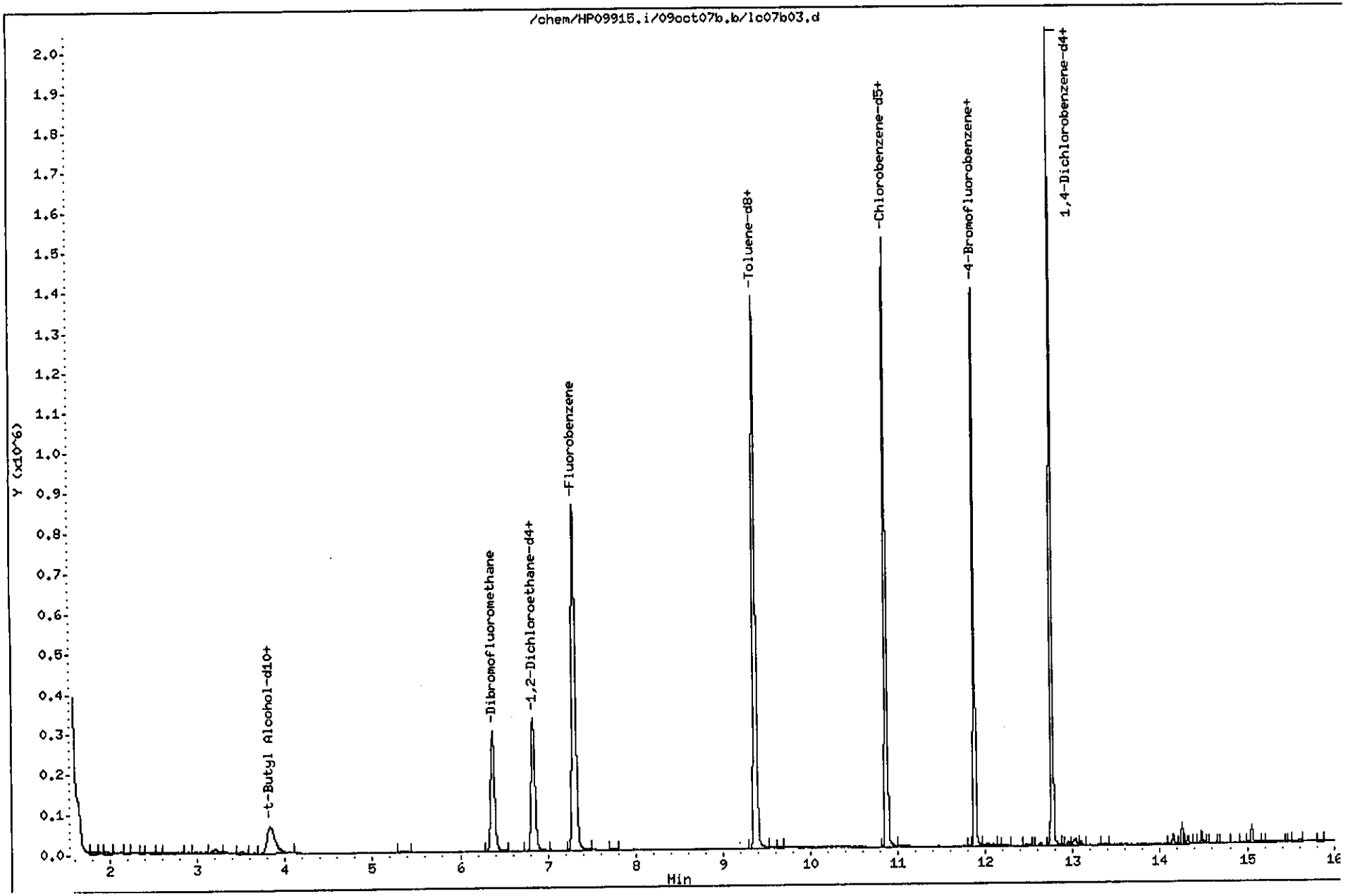
Instrument: HP09915.i

Operator: NPR02223
Column diameter: 0.25

NPR2223
10/7/09

PTL83 0455

/chem/HP09915.i/09oct07b.b/lc07b03.d



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct07b.b/1c07b03.d Instrument ID: HP09915.i
Injection date and time: 07-OCT-2009 17:30 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: 8260W
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 07-Oct-2009 18:01 Automation

Sample Name: VBLKL28 Lab Sample ID: VBLKL28

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
30)*t-Butyl Alcohol-d10	(4)	3.842	65	211729	250.000
72)*Fluorobenzene	(1)	7.305	96	1133576	50.000
104)*Chlorobenzene-d5	(2)	10.870	117	839756	50.000
137)*1,4-Dichlorobenzene-d4	(3)	12.768	152	467085	50.000
54)$Dibromofluoromethane	(1)	6.372	113	278393	50.966
64)$1,2-Dichloroethane-d4	(1)	6.842	102	65368	49.505
91)$Toluene-d8	(2)	9.375	98	1130252	51.522
119)$4-Bromofluorobenzene	(2)	11.880	95	400129	49.622

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

VBLKL31

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKL31

File: /chem/HP09915.i/09oct09b.b/lc09b05.d
Sample: VBLKL31;VBLKL31;1;3;;;;;;;
Injected At:09-OCT-2009 18:55
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference:
Sublist: 8260W-FR

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.835(-0.006)	701	65	205161(-3)	250.00	
72) Fluorobenzene	7.311(-0.006)	1782	96	1064092(-2)	50.00	
104) Chlorobenzene-d5	10.874(-0.003)	2890	117	787084(-3)	50.00	
137) 1,4-Dichlorobenzene-d4	12.767(0.000)	3479	152	436417(-5)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.379(-0.001)	113	259086	47.565	95%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.842(0.000)	102	61967	47.111	94%		77 - 113
91) Toluene-d8	(2)	9.375(0.000)	98	1055635	48.115	96%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.883(0.000)	95	372901	47.913	96%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
8) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
15) Ethyl Ether	(1)				ND	ND			2.00	5.00
18) Acrolein	(4)				ND	ND			40.00	100.00
19) 1,1-Dichloroethene	(1)				ND	ND			0.80	5.00
20) Freon 113	(1)				ND	ND			2.00	10.00
21) Acetone	(1)				ND	ND			6.00	20.00
22) 2-Propanol	(4)				ND	ND			50.00	100.00
23) Methyl Iodide	(1)				ND	ND			1.00	5.00
24) Carbon Disulfide	(1)				ND	ND			1.00	5.00
27) Allyl Chloride	(1)				ND	ND			1.00	5.00
28) Methyl Acetate	(1)				ND	ND			1.00	5.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
31) t-Butyl Alcohol	(4)				ND	ND			10.00	80.00
32) Acrylonitrile	(1)				ND	ND			4.00	20.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
35) n-Hexane	(1)				ND	ND			2.00	5.00
42) 1,2-Dichloroethene (total)	(1)				ND	ND			0.80	5.00
36) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0457

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKL31

File: /chem/HP09915.i/09oct09b.b/1c09b05.d
Sample: VBLKL31;VBLKL31;1;3;;;;;;;
Injected At:09-OCT-2009 18:55
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference:
Sublist: 8260W-FR

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: 1c09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
40) di-Isopropyl Ether	(1)					ND	ND			0.80	5.00
41) 2-Chloro-1,3-Butadiene	(1)					ND	ND			1.00	5.00
43) Ethyl t-Butyl Ether	(1)					ND	ND			0.80	5.00
44) cis-1,2-Dichloroethene	(1)					ND	ND			0.80	5.00
45) 2-Butanone	(1)					ND	ND			3.00	10.00
46) 2,2-Dichloropropane	(1)					ND	ND			1.00	5.00
47) Propionitrile	(4)					ND	ND			30.00	100.00
50) Methacrylonitrile	(1)					ND	ND			10.00	50.00
51) Bromochloromethane	(1)					ND	ND			1.00	5.00
52) Tetrahydrofuran	(4)					ND	ND			4.00	10.00
53) Chloroform	(1)					ND	ND			0.80	5.00
57) 1,1,1-Trichloroethane	(1)					ND	ND			0.80	5.00
60) Cyclohexane	(1)					ND	ND			2.00	5.00
61) 1,1-Dichloropropene	(1)					ND	ND			1.00	5.00
62) Carbon Tetrachloride	(1)					ND	ND			1.00	5.00
63) Isobutyl Alcohol	(4)					ND	ND			100.00	250.00
67) Benzene	(1)					ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)					ND	ND			1.00	5.00
71) t-Amyl Methyl Ether	(1)					ND	ND			0.80	5.00
74) n-Heptane	(1)					ND	ND			2.00	5.00
75) n-Butanol	(4)					ND	ND			100.00	250.00
76) Trichloroethene	(1)					ND	ND			1.00	5.00
77) Methylcyclohexane	(1)					ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 3458

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKL31

File: /chem/HP09915.i/09oct09b.b/lc09b05.d
Sample: VBLKL31;VBLKL31;1;3;;;;;;;
Injected At:09-OCT-2009 10:55
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference:
Sublist: 8260W-FR

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
80) Dibromomethane	(1)					ND	ND			1.00	5.00
81) Methyl Methacrylate	(1)					ND	ND			1.00	5.00
82) 1,4-Dioxane	(4)					ND	ND			70.00	250.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
85) 2-Nitropropane	(1)					ND	ND			2.00	10.00
86) 2-Chloroethyl Vinyl Ether	(1)					ND	ND			2.00	10.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
95) Ethyl Methacrylate	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
100) 2-Hexanone	(2)					ND	ND			3.00	10.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
107) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
108) Ethylbenzene	(2)					ND	ND			0.80	5.00
109) m+p-Xylene	(2)					ND	ND			0.80	5.00
110) Xylene (Total)	(2)					ND	ND			0.80	5.00
111) o-Xylene	(2)					ND	ND			0.80	5.00
112) Styrene	(2)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 8459

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKL31

File: /chem/HP09915.i/09oct09b.b/lc09b05.d
Sample: VBLKL31;VBLKL31;1;3;;;;;;;
Injected At:09-OCT-2009 18:55
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference:
Sublist: 8260W-FR

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
113) Bromoform	(2)					ND	ND			1.00	5.00
115) Isopropylbenzene	(2)					ND	ND			1.00	5.00
117) Cyclohexanone	(4)					ND	ND			55.00	250.00
120) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
124) trans-1,4-Dichloro-2-Butene	(3)					ND	ND			15.00	50.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
131) Pentachloroethane	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
139) 1,2,3-Trimethylbenzene	(3)					ND	ND			1.00	5.00
140) Benzyl Chloride	(3)					ND	ND			1.00	5.00
141) 1,3-Diethylbenzene	(3)					ND	ND			1.00	5.00
142) 1,4-Diethylbenzene	(3)					ND	ND			1.00	5.00
143) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OP RANGE

PTL83 0460

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKL31

File: /chem/HP09915.i/09oct09b.b/lc09b05.d
Sample: VBLKL31;VBLKL31;1;3;;;;;;;
Injected At:09-OCT-2009 18:55
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference:
Sublist: 8260W-FR

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
145) 1,2-Diethylbenzene	(3)					ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
147) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
148) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
149) Naphthalene	(3)					ND	ND			1.00	5.00
150) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00
152) 2-Methylnaphthalene	(3)					ND	ND			2.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

Analyst: CBE 10/14/09 Date: 10/14/09

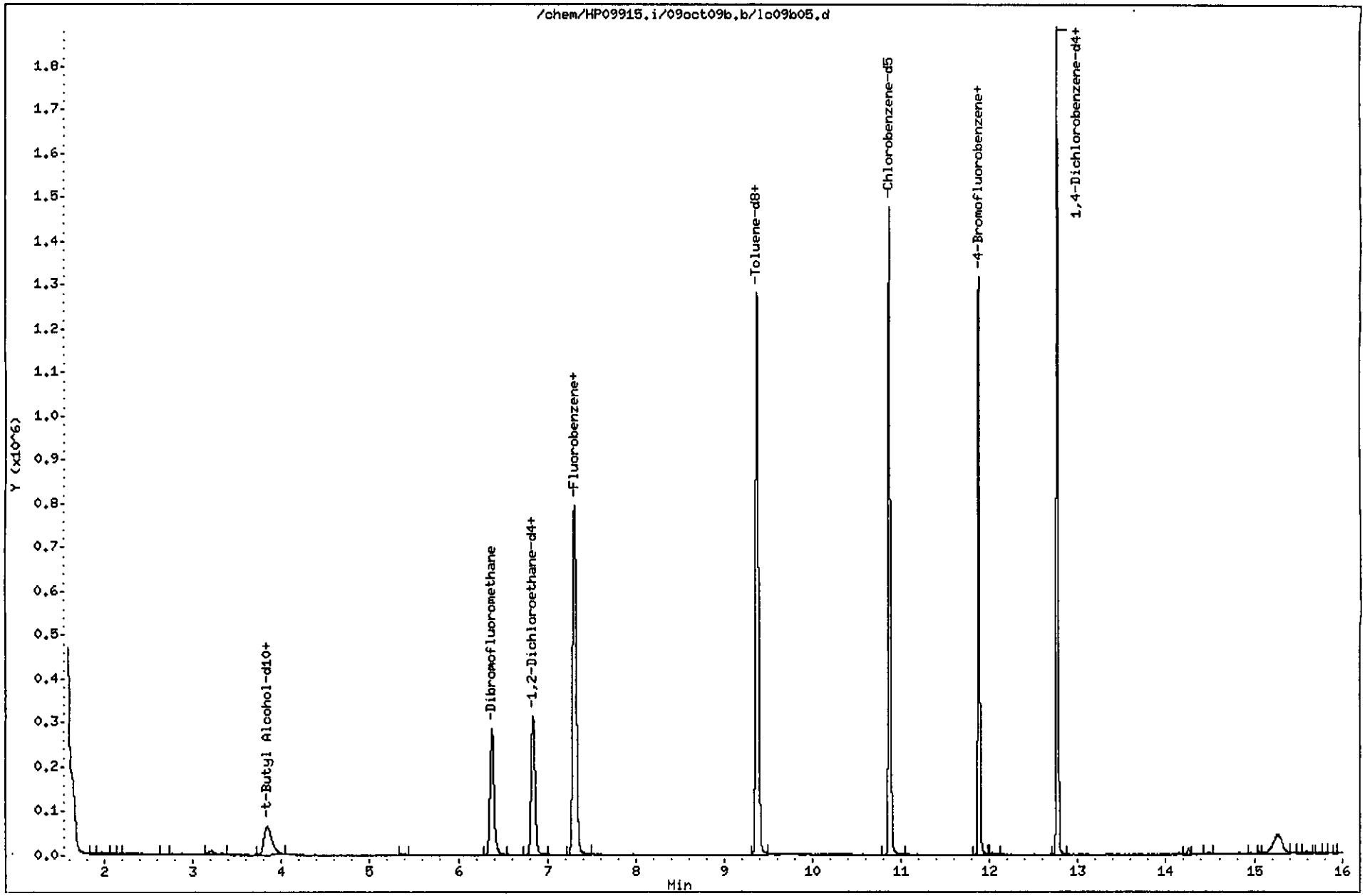
Auditor: Date: 10/14/09

PTL03 0451

Data File: /chem/HP09915.i/09oct09b.b/lc09b05.d
Date : 09-OCT-2009 18:55
Client ID: VBLKL31
Sample Info: VBLKL31;VBLKL31;1;3;;;;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: KDP02245
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct09b.b/lc09b05.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 18:55 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: 8260W-FR
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 09-Oct-2009 19:13 Automation

Sample Name: VBLKL31 Lab Sample ID: VBLKL31

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
30) *t-Butyl Alcohol-d10	(4)	3.835	65	205161	250.000
72) *Fluorobenzene	(1)	7.311	96	1064092	50.000
104) *Chlorobenzene-d5	(2)	10.874	117	787084	50.000
137) *1,4-Dichlorobenzene-d4	(3)	12.767	152	436417	50.000
54) $Dibromofluoromethane	(1)	6.379	113	259086	47.565
64) $1,2-Dichloroethane-d4	(1)	6.842	102	61967	47.111
91) $Toluene-d8	(2)	9.375	98	1055635	48.115
119) $4-Bromofluorobenzene	(2)	11.883	95	372901	47.913

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKL33

File: /chem/HP09915.i/09oct12a.b/lc12b01.d
Sample: VBLKL33;VBLKL33;1;3;
Injected At:12-OCT-2009 18:39
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference:
Sublist: 8260W-FR

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092851AA
Analyst:MAZ02012
Instrument ID:HP09915.i
Standard Reference: lc12c01.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.842(0.000)	703	65	244012(-2)	250.00	
72) Fluorobenzene	7.311(-0.010)	1782	96	1208061(-3)	50.00	
104) Chlorobenzene-d5	10.874(0.000)	2890	117	875100(-4)	50.00	
137) 1,4-Dichlorobenzene-d4	12.767(0.000)	3479	152	483297(-8)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.379(0.000)	113	293768	47.505	95%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.838(0.000)	102	71252	47.714	95%		77 - 113
91) Toluene-d8	(2)	9.375(0.000)	98	1189831	48.777	98%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.880(0.000)	95	421083	48.662	97%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)				ND	ND			2.00	5.00
3) Chloromethane	(1)				ND	ND			1.00	5.00
4) Vinyl Chloride	(1)				ND	ND			1.00	5.00
8) Bromomethane	(1)				ND	ND			1.00	5.00
9) Chloroethane	(1)				ND	ND			1.00	5.00
11) Trichlorofluoromethane	(1)				ND	ND			2.00	5.00
15) Ethyl Ether	(1)				ND	ND			2.00	5.00
18) Acrolein	(4)				ND	ND			40.00	100.00
19) 1,1-Dichloroethene	(1)				ND	ND			0.80	5.00
20) Freon 113	(1)				ND	ND			2.00	10.00
21) Acetone	(1)				ND	ND			6.00	20.00
22) 2-Propanol	(4)				ND	ND			50.00	100.00
23) Methyl Iodide	(1)				ND	ND			1.00	5.00
24) Carbon Disulfide	(1)				ND	ND			1.00	5.00
27) Allyl Chloride	(1)				ND	ND			1.00	5.00
28) Methyl Acetate	(1)				ND	ND			1.00	5.00
29) Methylene Chloride	(1)				ND	ND			2.00	5.00
31) t-Butyl Alcohol	(4)				ND	ND			10.00	80.00
32) Acrylonitrile	(1)				ND	ND			4.00	20.00
33) trans-1,2-Dichloroethene	(1)				ND	ND			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)				ND	ND			0.50	5.00
35) n-Hexane	(1)				ND	ND			2.00	5.00
42) 1,2-Dichloroethene (total)	(1)				ND	ND			0.80	5.00
36) 1,1-Dichloroethane	(1)				ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0464

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKL33

File: /chem/HP09915.i/09oct12a.b/lc12b01.d
Sample: VBLKL33;VBLKL33;1;3;
Injected At:12-OCT-2009 18:39
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference:
Sublist: 8260W-FR

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092851AA
Analyst:MAZ02012
Instrument ID:HP09915.i
Standard Reference: lc12c01.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
40) di-Isopropyl Ether	(1)					ND	ND			0.80	5.00
41) 2-Chloro-1,3-Butadiene	(1)					ND	ND			1.00	5.00
43) Ethyl t-Butyl Ether	(1)					ND	ND			0.80	5.00
44) cis-1,2-Dichloroethene	(1)					ND	ND			0.80	5.00
45) 2-Butanone	(1)					ND	ND			3.00	10.00
46) 2,2-Dichloropropane	(1)					ND	ND			1.00	5.00
47) Propionitrile	(4)					ND	ND			30.00	100.00
50) Methacrylonitrile	(1)					ND	ND			10.00	50.00
51) Bromochloromethane	(1)					ND	ND			1.00	5.00
52) Tetrahydrofuran	(4)					ND	ND			4.00	10.00
53) Chloroform	(1)					ND	ND			0.80	5.00
57) 1,1,1-Trichloroethane	(1)					ND	ND			0.80	5.00
60) Cyclohexane	(1)					ND	ND			2.00	5.00
61) 1,1-Dichloropropene	(1)					ND	ND			1.00	5.00
62) Carbon Tetrachloride	(1)					ND	ND			1.00	5.00
63) Isobutyl Alcohol	(4)					ND	ND			100.00	250.00
67) Benzene	(1)					ND	ND			0.50	5.00
68) 1,2-Dichloroethane	(1)					ND	ND			1.00	5.00
71) t-Amyl Methyl Ether	(1)					ND	ND			0.80	5.00
74) n-Heptane	(1)					ND	ND			2.00	5.00
75) n-Butanol	(4)					ND	ND			100.00	250.00
76) Trichloroethene	(1)					ND	ND			1.00	5.00
77) Methylcyclohexane	(1)					ND	ND			1.00	5.00
79) 1,2-Dichloropropane	(1)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL83 9465

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKL33

File: /chem/HP09915.i/09oct12a.b/lc12b01.d
Sample: VBLKL33;VBLKL33;1;3;
Injected At:12-OCT-2009 18:39
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference:
Sublist: 8260W-FR

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092851AA
Analyst:MAZ02012
Instrument ID:HP09915.i
Standard Reference: lc12c01.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
80) Dibromomethane	(1)					ND	ND			1.00	5.00
81) Methyl Methacrylate	(1)					ND	ND			1.00	5.00
82) 1,4-Dioxane	(4)					ND	ND			70.00	250.00
84) Bromodichloromethane	(1)					ND	ND			1.00	5.00
85) 2-Nitropropane	(1)					ND	ND			2.00	10.00
86) 2-Chloroethyl Vinyl Ether	(1)					ND	ND			2.00	10.00
87) cis-1,3-Dichloropropene	(1)					ND	ND			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)					ND	ND			3.00	10.00
93) Toluene	(2)					ND	ND			0.70	5.00
94) trans-1,3-Dichloropropene	(2)					ND	ND			1.00	5.00
95) Ethyl Methacrylate	(2)					ND	ND			1.00	5.00
96) 1,1,2-Trichloroethane	(2)					ND	ND			0.80	5.00
97) Tetrachloroethene	(2)					ND	ND			0.80	5.00
98) 1,3-Dichloropropane	(2)					ND	ND			1.00	5.00
100) 2-Hexanone	(2)					ND	ND			3.00	10.00
102) Dibromochloromethane	(2)					ND	ND			1.00	5.00
103) 1,2-Dibromoethane	(2)					ND	ND			1.00	5.00
105) Chlorobenzene	(2)					ND	ND			0.80	5.00
107) 1,1,1,2-Tetrachloroethane	(2)					ND	ND			1.00	5.00
108) Ethylbenzene	(2)					ND	ND			0.80	5.00
109) m+p-Xylene	(2)					ND	ND			0.80	5.00
110) Xylene (Total)	(2)					ND	ND			0.80	5.00
111) o-Xylene	(2)					ND	ND			0.80	5.00
112) Styrene	(2)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL83 8466

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKL33

File: /chem/HP09915.i/09oct12a.b/lc12b01.d
Sample: VBLKL33;VBLKL33;1;3;
Injected At:12-OCT-2009 18:39
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference:
Sublist: 8260W-FR

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092851AA
Analyst:MAZ02012
Instrument ID:HP09915.i
Standard Reference: lc12c01.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
113) Bromoform	(2)					ND	ND			1.00	5.00
115) Isopropylbenzene	(2)					ND	ND			1.00	5.00
117) Cyclohexanone	(4)					ND	ND			55.00	250.00
120) 1,1,2,2-Tetrachloroethane	(3)					ND	ND			1.00	5.00
122) Bromobenzene	(3)					ND	ND			1.00	5.00
123) 1,2,3-Trichloropropane	(3)					ND	ND			1.00	5.00
124) trans-1,4-Dichloro-2-Butene	(3)					ND	ND			15.00	50.00
125) n-Propylbenzene	(3)					ND	ND			1.00	5.00
126) 2-Chlorotoluene	(3)					ND	ND			1.00	5.00
127) 1,3,5-Trimethylbenzene	(3)					ND	ND			1.00	5.00
128) 4-Chlorotoluene	(3)					ND	ND			1.00	5.00
130) tert-Butylbenzene	(3)					ND	ND			1.00	5.00
131) Pentachloroethane	(3)					ND	ND			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)					ND	ND			1.00	5.00
134) sec-Butylbenzene	(3)					ND	ND			1.00	5.00
135) 1,3-Dichlorobenzene	(3)					ND	ND			1.00	5.00
136) p-Isopropyltoluene	(3)					ND	ND			1.00	5.00
138) 1,4-Dichlorobenzene	(3)					ND	ND			1.00	5.00
139) 1,2,3-Trimethylbenzene	(3)					ND	ND			1.00	5.00
140) Benzyl Chloride	(3)					ND	ND			1.00	5.00
141) 1,3-Diethylbenzene	(3)					ND	ND			1.00	5.00
142) 1,4-Diethylbenzene	(3)					ND	ND			1.00	5.00
143) n-Butylbenzene	(3)					ND	ND			1.00	5.00
144) 1,2-Dichlorobenzene	(3)					ND	ND			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0467

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

VBLKL33

File: /chem/HP09915.i/09oct12a.b/lc12b01.d
Sample: VBLKL33;VBLKL33;1;3;
Injected At:12-OCT-2009 18:39
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference:
Sublist: 8260W-FR

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092851AA
Analyst:MAZ02012
Instrument ID:HP09915.i
Standard Reference: lc12c01.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
145) 1,2-Diethylbenzene	(3)					ND	ND			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)					ND	ND			2.00	5.00
147) 1,2,4-Trichlorobenzene	(3)					ND	ND			1.00	5.00
148) Hexachlorobutadiene	(3)					ND	ND			2.00	5.00
149) Naphthalene	(3)					ND	ND			1.00	5.00
150) 1,2,3-Trichlorobenzene	(3)					ND	ND			1.00	5.00
152) 2-Methylnaphthalene	(3)					ND	ND			2.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments:

Analyst: Date: 10/15/09

Auditor: Date: 10/15/09

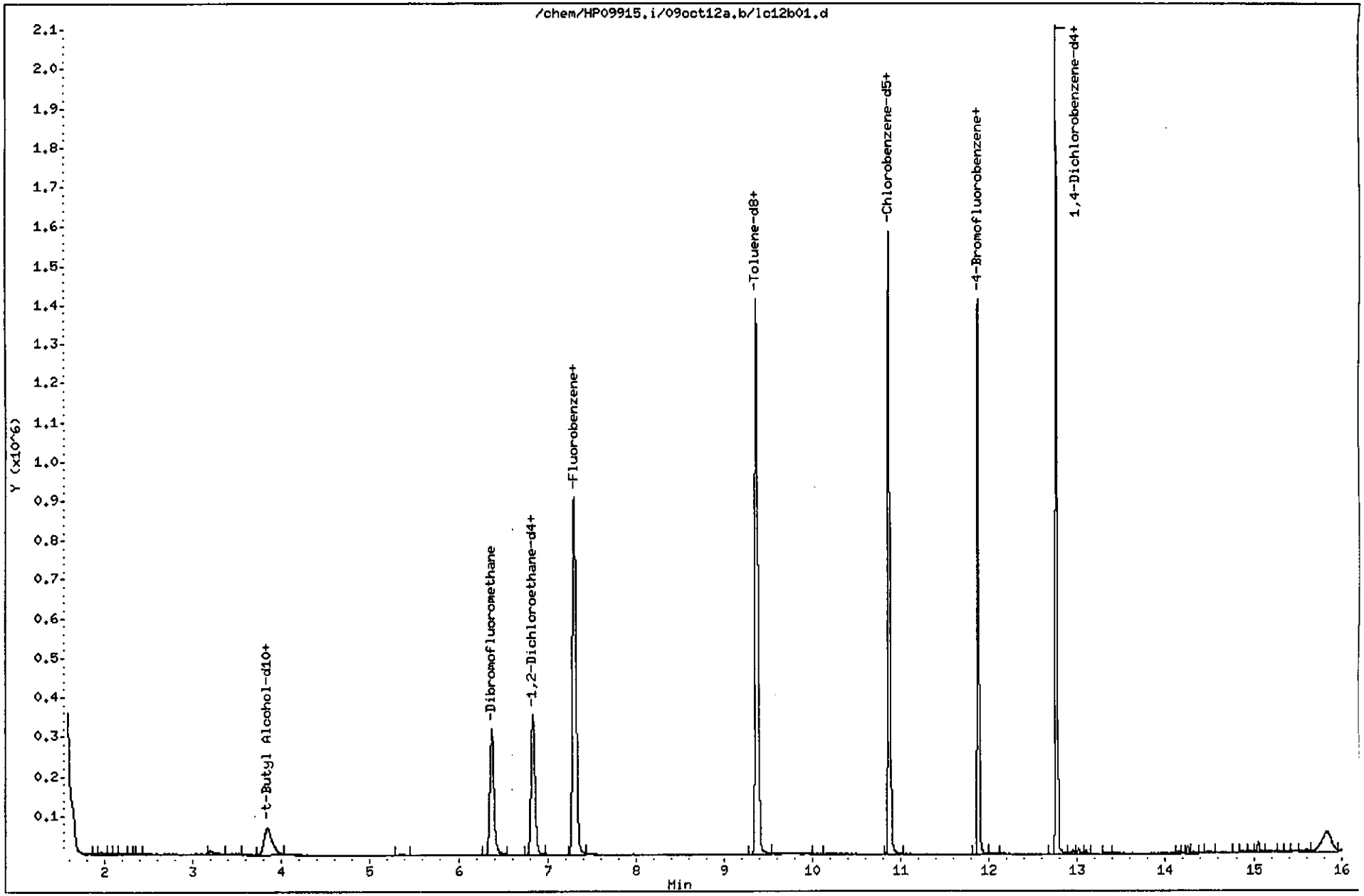
Data File: /chem/HP09915.i/09oct12a.b/lc12b01.d
Date : 12-OCT-2009 18:39
Client ID: VBLKL33
Sample Info: VBLKL33;VBLKL33;1;3;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: MAZ02012
Column diameter: 0.25

MB/ZOL 10/12/09

FTL83 #469



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct12a.b/lc12b01.d Instrument ID: HP09915.i
Injection date and time: 12-OCT-2009 18:39 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct12a.b/L8260W.m Sublist used: 8260W-FR
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 19:26 maz02012

Sample Name: VBLKL33 Lab Sample ID: VBLKL33

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
30) *t-Butyl Alcohol-d10	(4)	3.842	65	244012	250.000
72) *Fluorobenzene	(1)	7.311	96	1208061	50.000
104) *Chlorobenzene-d5	(2)	10.874	117	875100	50.000
137) *1,4-Dichlorobenzene-d4	(3)	12.767	152	483297	50.000
54) $Dibromofluoromethane	(1)	6.379	113	293768	47.505
64) $1,2-Dichloroethane-d4	(1)	6.838	102	71252	47.714
91) $Toluene-d8	(2)	9.375	98	1189831	48.777
119) $4-Bromofluorobenzene	(2)	11.880	95	421083	48.662

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PA19DMS

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796210

File: /chem/HP09915.i/09oct07b.b/lc07s40.d
Sample: PA19DMS;5796210;1;3;MS;;;;;;
Injected At:08-OCT-2009 00:07
Calibration Time: 24-SEP-2009 09:28
Target Method: L8260W.m
Blank Reference: lc07b03.d
Sublist: MHW

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
72) Fluorobenzene	7.308(-0.003)	1781	96	1007953(-11)	50.00	
104) Chlorobenzene-d5	10.874(0.000)	2890	117	750531(-10)	50.00	
137) 1,4-Dichlorobenzene-d4	12.767(0.000)	3479	152	432789(-11)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.375(0.000)	113	248686	51.202	102%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.838(0.000)	102	59920	51.035	102%		77 - 113
91) Toluene-d8	(2)	9.375(0.000)	98	1022854	52.169	104%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.880(0.000)	95	368403	51.118	102%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)	1.784(0.000)	85	162918	19.950	19.95			2.00	5.00
3) Chloromethane	(1)	1.909(0.001)	50	176977	23.708	23.71			1.00	5.00
4) Vinyl Chloride	(1)	2.035(0.001)	62	167353	24.685	24.68			1.00	5.00
8) Bromomethane	(1)	2.331(0.002)	94	60137	16.092	16.09			1.00	5.00
9) Chloroethane	(1)	2.427(0.001)	64	75025	24.025	24.03			1.00	5.00
11) Trichlorofluoromethane	(1)	2.684(0.005)	101	228071	26.862	26.86			2.00	5.00
19) 1,1-Dichloroethene	(1)	3.231(0.000)	96	116005	30.347	30.35			0.80	5.00
21) Acetone	(1)	3.266(-0.001)	43	394332	177.480	177.48			6.00	20.00
29) Methylene Chloride	(1)	3.810(0.000)	84	114228	20.862	20.86			2.00	5.00
33) trans-1,2-Dichloroethene	(1)	4.202(-0.001)	96	114276	23.801	23.80			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)	4.212(-0.001)	73	331008	19.408	19.41			0.50	5.00
36) 1,1-Dichloroethane	(1)	4.822(0.000)	63	209254	22.888	22.89			1.00	5.00
44) cis-1,2-Dichloroethene	(1)	5.697(-0.001)	96	119544	23.237	23.24			0.80	5.00
45) 2-Butanone	(1)	5.707(-0.001)	43	642773	140.989	140.99			3.00	10.00
46) 2,2-Dichloropropane	(1)	5.700(0.000)	77	154186	22.090	22.09			1.00	5.00
51) Bromochloromethane	(1)	6.031(-0.001)	128	58913	23.894	23.89			1.00	5.00
53) Chloroform	(1)	6.154(0.000)	83	204081	24.637	24.64			0.80	5.00
57) 1,1,1-Trichloroethane	(1)	6.420(0.000)	97	193624	24.357	24.36			0.80	5.00
61) 1,1-Dichloropropene	(1)	6.649(-0.001)	75	158471	23.180	23.18			1.00	5.00
62) Carbon Tetrachloride	(1)	6.655(0.000)	117	146550	23.995	23.99			1.00	5.00
67) Benzene	(1)	6.925(0.000)	78	467338	23.322	23.32			0.50	5.00
68) 1,2-Dichloroethane	(1)	6.941(0.000)	62	165195	21.574	21.57			1.00	5.00
76) Trichloroethene	(1)	7.797(0.000)	95	122889	24.796	24.80			1.00	5.00
79) 1,2-Dichloropropane	(1)	8.086(0.000)	63	125736	22.485	22.48			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0471

PA19DMS

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796210

File: /chem/HP09915.i/09oct07b.b/lc07s40.d
Sample: PA19DMS;5796210;1;3;MS;;;;;;
Injected At:08-OCT-2009 00:07
Calibration Time: 24-SEP-2009 09:28
Target Method: L8260W.m
Blank Reference: lc07b03.d
Sublist: MHW

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:**L092802AA**
Analyst:**NPR02223**
Instrument ID:**HP09915.i**
Standard Reference: lc07c02.d
Prep Factor:**1.00**
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:**38A**

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
80) Dibromomethane	(1)	8.237(0.000)	93	74902	21.625	21.62			1.00	5.00
84) Bromodichloromethane	(1)	8.449(0.001)	83	136821	22.115	22.11			1.00	5.00
87) cis-1,3-Dichloropropene	(1)	9.034(0.001)	75	169873	20.932	20.93			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)	9.243(0.000)	43	888127	95.990	95.99			3.00	10.00
93) Toluene	(2)	9.456(0.000)	92	295158	24.060	24.06			0.70	5.00
94) trans-1,3-Dichloropropene	(2)	9.706(0.000)	75	162650	19.781	19.78			1.00	5.00
96) 1,1,2-Trichloroethane	(2)	9.906(-0.001)	97	106562	22.262	22.26			0.80	5.00
97) Tetrachloroethene	(2)	10.063(0.000)	166	130336	24.449	24.45			0.80	5.00
98) 1,3-Dichloropropane	(2)	10.083(0.000)	76	190365	21.476	21.48			1.00	5.00
102) Dibromochloromethane	(2)	10.314(0.000)	129	108021	20.447	20.45			1.00	5.00
103) 1,2-Dibromoethane	(2)	10.423(0.000)	107	114375	21.366	21.37			1.00	5.00
105) Chlorobenzene	(2)	10.903(0.000)	112	337911	24.042	24.04			0.80	5.00
107) 1,1,1,2-Tetrachloroethane	(2)	10.973(0.000)	131	109942	22.677	22.68			1.00	5.00
108) Ethylbenzene	(2)	11.002(0.000)	91	571540	23.709	23.71			0.80	5.00
109) m+p-Xylene	(2)	11.108(0.000)	106	453913	48.624	48.62			0.80	5.00
111) o-Xylene	(2)	11.452(0.000)	106	217402	24.342	24.34			0.80	5.00
112) Styrene	(2)	11.462(0.000)	104	349684	23.747	23.75			1.00	5.00
113) Bromoform	(2)	11.613(0.000)	173	74761	18.834	18.83			1.00	5.00
115) Isopropylbenzene	(2)	11.761(0.000)	105	543153	23.252	23.25			1.00	5.00
120) 1,1,2,2-Tetrachloroethane	(3)	11.989(0.000)	83	171798	20.977	20.98			1.00	5.00
122) Bromobenzene	(3)	12.005(0.000)	156	148440	23.834	23.83			1.00	5.00
123) 1,2,3-Trichloropropane	(3)	12.025(0.000)	110	50025	20.205	20.21			1.00	5.00
125) n-Propylbenzene	(3)	12.089(0.000)	120	167110	24.741	24.74			1.00	5.00
126) 2-Chlorotoluene	(3)	12.157(0.000)	126	136774	23.465	23.46			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 8472

PA19DMS

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796210

File: /chem/HP09915.i/09oct07b.b/1c07s40.d
Sample: PA19DMS;5796210;1;3;MS;;;;;;
Injected At:08-OCT-2009 00:07
Calibration Time: 24-SEP-2009 09:28
Target Method: L8260W.m
Blank Reference: 1c07b03.d
Sublist: MHW

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: 1c07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
127) 1,3,5-Trimethylbenzene	(3)	12.221(0.000)	120	235932	23.731	23.73			1.00	5.00
128) 4-Chlorotoluene	(3)	12.240(0.000)	126	146702	24.121	24.12			1.00	5.00
130) tert-Butylbenzene	(3)	12.472(0.000)	134	108761	23.889	23.89			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)	12.504(0.000)	105	493990	23.388	23.39			1.00	5.00
134) sec-Butylbenzene	(3)	12.636(0.000)	134	125391	24.133	24.13			1.00	5.00
135) 1,3-Dichlorobenzene	(3)	12.722(0.000)	146	276555	23.642	23.64			1.00	5.00
136) p-Isopropyltoluene	(3)	12.735(0.000)	134	142120	23.922	23.92			1.00	5.00
138) 1,4-Dichlorobenzene	(3)	12.784(0.000)	146	293746	23.706	23.71			1.00	5.00
143) n-Butylbenzene	(3)	13.028(0.000)	92	252327	23.123	23.12			1.00	5.00
144) 1,2-Dichlorobenzene	(3)	13.057(0.000)	146	268669	23.376	23.38			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)	13.594(0.000)	75	32552	17.448	17.45			2.00	5.00
147) 1,2,4-Trichlorobenzene	(3)	14.150(0.000)	180	197293	21.825	21.83			1.00	5.00
148) Hexachlorobutadiene	(3)	14.256(0.000)	225	97533	22.645	22.65			2.00	5.00
149) Naphthalene	(3)	14.320(0.000)	128	574824	20.204	20.20			1.00	5.00
150) 1,2,3-Trichlorobenzene	(3)	14.475(0.000)	180	193848	21.736	21.74			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: [signature]

Analyst: [signature] Date: 10/5/09

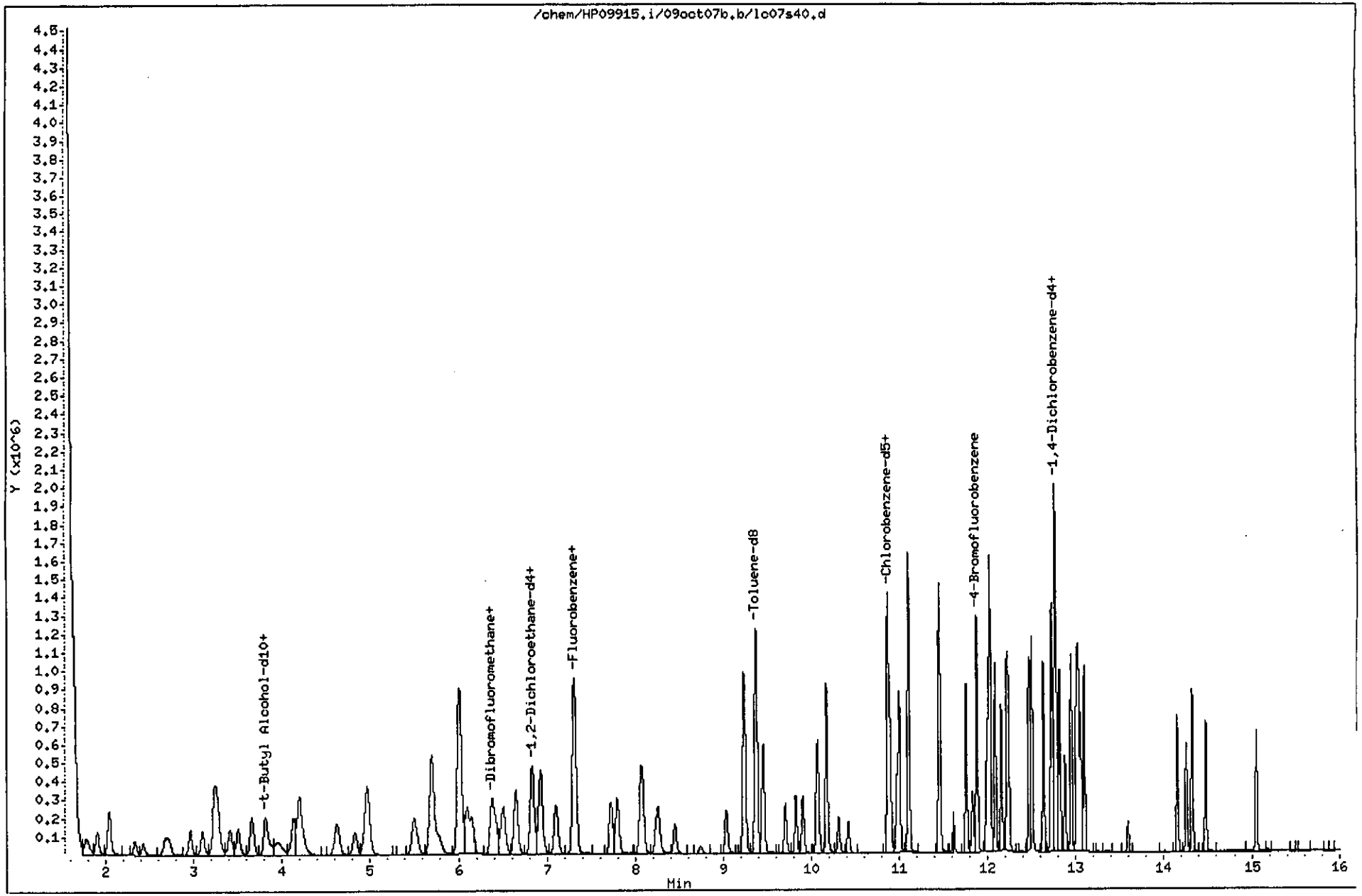
Auditor: [signature] Date: 10-10-09

PTL03 0473

Data File: /chem/HP09915.i/09oct07b.b/1c07s40.d
Date : 08-OCT-2009 00:07
Client ID: PA19DMS
Sample Info: PA19DMS;5796210;1;3;MS;;;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: NPR02223
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct07b.b/lc07s40.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 00:07 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: MHW
Calibration date and time: 24-SEP-2009 09:28
Date, time and analyst ID of latest file update: 08-Oct-2009 23:38 maz02012

Sample Name: PA19DMS Lab Sample ID: 5796210

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.784	85	162918	19.950
3) Chloromethane	(1)	1.909	50	176977	23.708
4) Vinyl Chloride	(1)	2.035	62	167353	24.685
8) Bromomethane	(1)	2.331	94	60137	16.092
9) Chloroethane	(1)	2.427	64	75025	24.025
11) Trichlorofluoromethane	(1)	2.684	101	228071	26.862
19) 1,1-Dichloroethene	(1)	3.231	96	116005	30.347
21) Acetone	(1)	3.266	43	394332	177.480
29) Methylene Chloride	(1)	3.810	84	114228	20.862
33) trans-1,2-Dichloroethene	(1)	4.202	96	114276	23.801
34) Methyl Tertiary Butyl Ether	(1)	4.212	73	331008	19.408
36) 1,1-Dichloroethane	(1)	4.822	63	209254	22.888
44) cis-1,2-Dichloroethene	(1)	5.697	96	119544	23.237
45) 2-Butanone	(1)	5.707	43	642773	140.989
46) 2,2-Dichloropropane	(1)	5.700	77	154186	22.090
51) Bromochloromethane	(1)	6.031	128	58913	23.894
53) Chloroform	(1)	6.154	83	204081	24.637
57) 1,1,1-Trichloroethane	(1)	6.420	97	193624	24.357
61) 1,1-Dichloropropene	(1)	6.649	75	158471	23.180
62) Carbon Tetrachloride	(1)	6.655	117	146550	23.995
67) Benzene	(1)	6.925	78	467338	23.322
68) 1,2-Dichloroethane	(1)	6.941	62	165195	21.574
72) *Fluorobenzene	(1)	7.308	96	1007953	50.000
76) Trichloroethene	(1)	7.797	95	122889	24.796
79) 1,2-Dichloropropane	(1)	8.086	63	125736	22.485
80) Dibromomethane	(1)	8.237	93	74902	21.625
84) Bromodichloromethane	(1)	8.449	83	136821	22.115
87) cis-1,3-Dichloropropene	(1)	9.034	75	169873	20.932
89) 4-Methyl-2-Pentanone	(1)	9.243	43	888127	95.990
93) Toluene	(2)	9.456	92	295158	24.060
94) trans-1,3-Dichloropropene	(2)	9.706	75	162650	19.781
96) 1,1,2-Trichloroethane	(2)	9.906	97	106562	22.262
97) Tetrachloroethene	(2)	10.063	166	130336	24.449
98) 1,3-Dichloropropane	(2)	10.083	76	190365	21.476

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct07b.b/lc07s40.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 00:07 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: MHW
Calibration date and time: 24-SEP-2009 09:28
Date, time and analyst ID of latest file update: 08-Oct-2009 23:38 maz02012

Sample Name: PA19DMS Lab Sample ID: 5796210

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
102) Dibromochloromethane	(2)	10.314	129	108021	20.447
103) 1,2-Dibromoethane	(2)	10.423	107	114375	21.366
104) *Chlorobenzene-d5	(2)	10.874	117	750531	50.000
105) Chlorobenzene	(2)	10.903	112	337911	24.042
107) 1,1,1,2-Tetrachloroethane	(2)	10.973	131	109942	22.677
108) Ethylbenzene	(2)	11.002	91	571540	23.709
109) m+p-Xylene	(2)	11.108	106	453913	48.624
111) o-Xylene	(2)	11.452	106	217402	24.342
112) Styrene	(2)	11.462	104	349684	23.747
113) Bromoform	(2)	11.613	173	74761	18.834
115) Isopropylbenzene	(2)	11.761	105	543153	23.252
120) 1,1,2,2-Tetrachloroethane	(3)	11.989	83	171798	20.977
122) Bromobenzene	(3)	12.005	156	148440	23.834
123) 1,2,3-Trichloropropane	(3)	12.025	110	50025	20.205
125) n-Propylbenzene	(3)	12.089	120	167110	24.741
126) 2-Chlorotoluene	(3)	12.157	126	136774	23.465
127) 1,3,5-Trimethylbenzene	(3)	12.221	120	235932	23.731
128) 4-Chlorotoluene	(3)	12.240	126	146702	24.121
130) tert-Butylbenzene	(3)	12.472	134	108761	23.889
132) 1,2,4-Trimethylbenzene	(3)	12.504	105	493990	23.388
134) sec-Butylbenzene	(3)	12.636	134	125391	24.133
135) 1,3-Dichlorobenzene	(3)	12.722	146	276555	23.642
136) p-Isopropyltoluene	(3)	12.735	134	142120	23.922
137) *1,4-Dichlorobenzene-d4	(3)	12.767	152	432789	50.000
138) 1,4-Dichlorobenzene	(3)	12.784	146	293746	23.706
143) n-Butylbenzene	(3)	13.028	92	252327	23.123
144) 1,2-Dichlorobenzene	(3)	13.057	146	268669	23.376
146) 1,2-Dibromo-3-Chloropropane	(3)	13.594	75	32552	17.448
147) 1,2,4-Trichlorobenzene	(3)	14.150	180	197293	21.825
148) Hexachlorobutadiene	(3)	14.256	225	97533	22.645
149) Naphthalene	(3)	14.320	128	574824	20.204
150) 1,2,3-Trichlorobenzene	(3)	14.475	180	193848	21.736
54) $Dibromofluoromethane	(1)	6.375	113	248686	51.202
64) $1,2-Dichloroethane-d4	(1)	6.838	102	59920	51.035

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct07b.b/lc07s40.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 00:07 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: MHW
Calibration date and time: 24-SEP-2009 09:28
Date, time and analyst ID of latest file update: 08-Oct-2009 23:38 maz02012

Sample Name: PA19DMS Lab Sample ID: 5796210

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
91) $Toluene-d8	(2)	9.375	98	1022854	52.169
119) $4-Bromofluorobenzene	(2)	11.880	95	368403	51.118

$ = Compound is a surrogate standard.

PTL03 0477

PA19DMSD

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796211

File: /chem/HP09915.i/09oct07b.b/lc07s41.d
Sample: PA19DMSD;5796211;1;3;MSD;;;;;;
Injected At:08-OCT-2009 00:29
Calibration Time: 24-SEP-2009 09:28
Target Method: L8260W.m
Blank Reference: lc07b03.d
Sublist: MHW

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
72) Fluorobenzene	7.305(0.000)	1780	96	1039284(-8)	50.00	
104) Chlorobenzene-d5	10.874(0.000)	2890	117	770836(-8)	50.00	
137) 1,4-Dichlorobenzene-d4	12.768(0.000)	3479	152	420599(-13)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.375(0.000)	113	255083	50.935	102%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.835(0.000)	102	60130	49.670	99%		77 - 113
91) Toluene-d8	(2)	9.375(0.000)	98	1052381	52.261	105%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.880(0.000)	95	353790	47.798	96%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)	1.774(0.001)	85	169370	20.114	20.11			2.00	5.00
3) Chloromethane	(1)	1.900(0.002)	50	176645	22.950	22.95			1.00	5.00
4) Vinyl Chloride	(1)	2.025(0.003)	62	166249	23.782	23.78			1.00	5.00
8) Bromomethane	(1)	2.327(0.002)	94	64951	16.909	16.91			1.00	5.00
9) Chloroethane	(1)	2.417(0.002)	64	71649	22.252	22.25			1.00	5.00
11) Trichlorofluoromethane	(1)	2.675(0.006)	101	232374	26.544	26.54			2.00	5.00
19) 1,1-Dichloroethene	(1)	3.228(0.000)	96	119413	30.296	30.30			0.80	5.00
21) Acetone	(1)	3.260(0.000)	43	398761	174.063	174.06			6.00	20.00
29) Methylene Chloride	(1)	3.806(0.000)	84	120613	21.364	21.36			2.00	5.00
33) trans-1,2-Dichloroethene	(1)	4.192(0.000)	96	116567	23.546	23.55			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)	4.205(0.000)	73	354090	20.135	20.13			0.50	5.00
36) 1,1-Dichloroethane	(1)	4.819(0.000)	63	223874	23.749	23.75			1.00	5.00
44) cis-1,2-Dichloroethene	(1)	5.684(0.000)	96	123437	23.271	23.27			0.80	5.00
45) 2-Butanone	(1)	5.703(0.000)	43	671796	142.913	142.91			3.00	10.00
46) 2,2-Dichloropropane	(1)	5.694(0.001)	77	164463	22.852	22.85			1.00	5.00
51) Bromochloromethane	(1)	6.028(-0.001)	128	61065	24.020	24.02			1.00	5.00
53) Chloroform	(1)	6.154(0.000)	83	213772	25.029	25.03			0.80	5.00
57) 1,1,1-Trichloroethane	(1)	6.420(-0.001)	97	203396	24.815	24.81			0.80	5.00
61) 1,1-Dichloropropene	(1)	6.646(-0.001)	75	167483	23.760	23.76			1.00	5.00
62) Carbon Tetrachloride	(1)	6.652(0.000)	117	153496	24.374	24.37			1.00	5.00
67) Benzene	(1)	6.922(0.000)	78	487145	23.578	23.58			0.50	5.00
68) 1,2-Dichloroethane	(1)	6.941(0.000)	62	175287	22.202	22.20			1.00	5.00
76) Trichloroethene	(1)	7.797(0.000)	95	127176	24.888	24.89			1.00	5.00
79) 1,2-Dichloropropane	(1)	8.086(-0.001)	63	131339	22.779	22.78			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 8478

PA19DMSD

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796211

File: /chem/HP09915.i/09oct07b.b/lc07s41.d
Sample: PA19DMSD;5796211;1;3;MSD;;;;;;
Injected At:08-OCT-2009 00:29
Calibration Time: 24-SEP-2009 09:28
Target Method: L8250W.m
Blank Reference: lc07b03.d
Sublist: MHW

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)

Bottle Code:38A

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
80) Dibromomethane	(1)	8.234	(0.000)	93	77678	21.750	21.75			1.00	5.00
84) Bromodichloromethane	(1)	8.446	(0.000)	83	143063	22.427	22.43			1.00	5.00
87) cis-1,3-Dichloropropene	(1)	9.038	(0.000)	75	175300	20.950	20.95			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)	9.237	(0.000)	43	938956	98.424	98.42			3.00	10.00
93) Toluene	(2)	9.456	(0.000)	92	308258	24.466	24.47			0.70	5.00
94) trans-1,3-Dichloropropene	(2)	9.707	(0.000)	75	171772	20.340	20.34			1.00	5.00
96) 1,1,2-Trichloroethane	(2)	9.903	(0.000)	97	109042	22.180	22.18			0.80	5.00
97) Tetrachloroethene	(2)	10.063	(0.000)	166	138614	25.316	25.32			0.80	5.00
98) 1,3-Dichloropropane	(2)	10.080	(0.000)	76	199340	21.896	21.90			1.00	5.00
102) Dibromochloromethane	(2)	10.311	(0.000)	129	113667	20.949	20.95			1.00	5.00
103) 1,2-Dibromoethane	(2)	10.424	(0.000)	107	118281	21.514	21.51			1.00	5.00
105) Chlorobenzene	(2)	10.899	(0.000)	112	350850	24.305	24.31			0.80	5.00
107) 1,1,1,2-Tetrachloroethane	(2)	10.973	(0.000)	131	116258	23.348	23.35			1.00	5.00
108) Ethylbenzene	(2)	11.002	(0.000)	91	594611	24.016	24.02			0.80	5.00
109) m+p-Xylene	(2)	11.108	(0.000)	106	472378	49.269	49.27			0.80	5.00
111) o-Xylene	(2)	11.452	(0.000)	106	213426	23.268	23.27			0.80	5.00
112) Styrene	(2)	11.462	(0.000)	104	346721	22.925	22.93			1.00	5.00
113) Bromoform	(2)	11.616	(0.000)	173	74395	18.248	18.25			1.00	5.00
115) Isopropylbenzene	(2)	11.761	(0.000)	105	542517	22.613	22.61			1.00	5.00
120) 1,1,2,2-Tetrachloroethane	(3)	11.989	(0.000)	83	167542	21.050	21.05			1.00	5.00
122) Bromobenzene	(3)	12.005	(0.000)	156	146978	24.283	24.28			1.00	5.00
123) 1,2,3-Trichloropropane	(3)	12.025	(0.000)	110	49328	20.501	20.50			1.00	5.00
125) n-Propylbenzene	(3)	12.086	(0.000)	120	160978	24.524	24.52			1.00	5.00
126) 2-Chlorotoluene	(3)	12.157	(0.000)	126	136017	24.011	24.01			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0479

PA19DMSD

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

5796211

File: /chem/HP09915.i/09oct07b.b/lc07s41.d
Sample: PA19DMSD;5796211;1;3;MSD;;;;;;
Injected At:08-OCT-2009 00:29
Calibration Time: 24-SEP-2009 09:28
Target Method: L8260W.m
Blank Reference: lc07b03.d
Sublist: MHW

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:38A

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
127) 1,3,5-Trimethylbenzene	(3)	12.221(0.000)	120	234117	24.231	24.23			1.00	5.00
128) 4-Chlorotoluene	(3)	12.240(0.000)	126	142806	24.161	24.16			1.00	5.00
130) tert-Butylbenzene	(3)	12.472(0.000)	134	108913	24.616	24.62			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)	12.504(0.000)	105	483097	23.535	23.54			1.00	5.00
134) sec-Butylbenzene	(3)	12.632(0.000)	134	125586	24.871	24.87			1.00	5.00
135) 1,3-Dichlorobenzene	(3)	12.719(0.000)	146	275780	24.259	24.26			1.00	5.00
136) p-Isopropyltoluene	(3)	12.735(0.000)	134	139127	24.097	24.10			1.00	5.00
138) 1,4-Dichlorobenzene	(3)	12.784(0.000)	146	288176	23.931	23.93			1.00	5.00
143) n-Butylbenzene	(3)	13.028(0.000)	92	250994	23.668	23.67			1.00	5.00
144) 1,2-Dichlorobenzene	(3)	13.057(0.000)	146	264992	23.724	23.72			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)	13.594(0.000)	75	32350	17.842	17.84			2.00	5.00
147) 1,2,4-Trichlorobenzene	(3)	14.150(0.000)	180	196118	22.324	22.32			1.00	5.00
148) Hexachlorobutadiene	(3)	14.256(0.000)	225	97698	23.341	23.34			2.00	5.00
149) Naphthalene	(3)	14.320(0.000)	128	571745	20.678	20.68			1.00	5.00
150) 1,2,3-Trichlorobenzene	(3)	14.475(0.000)	180	193735	22.353	22.35			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: [illegible]

Analyst: [illegible] Date: 10/8/09

Auditor: [illegible] Date: 10-10-09

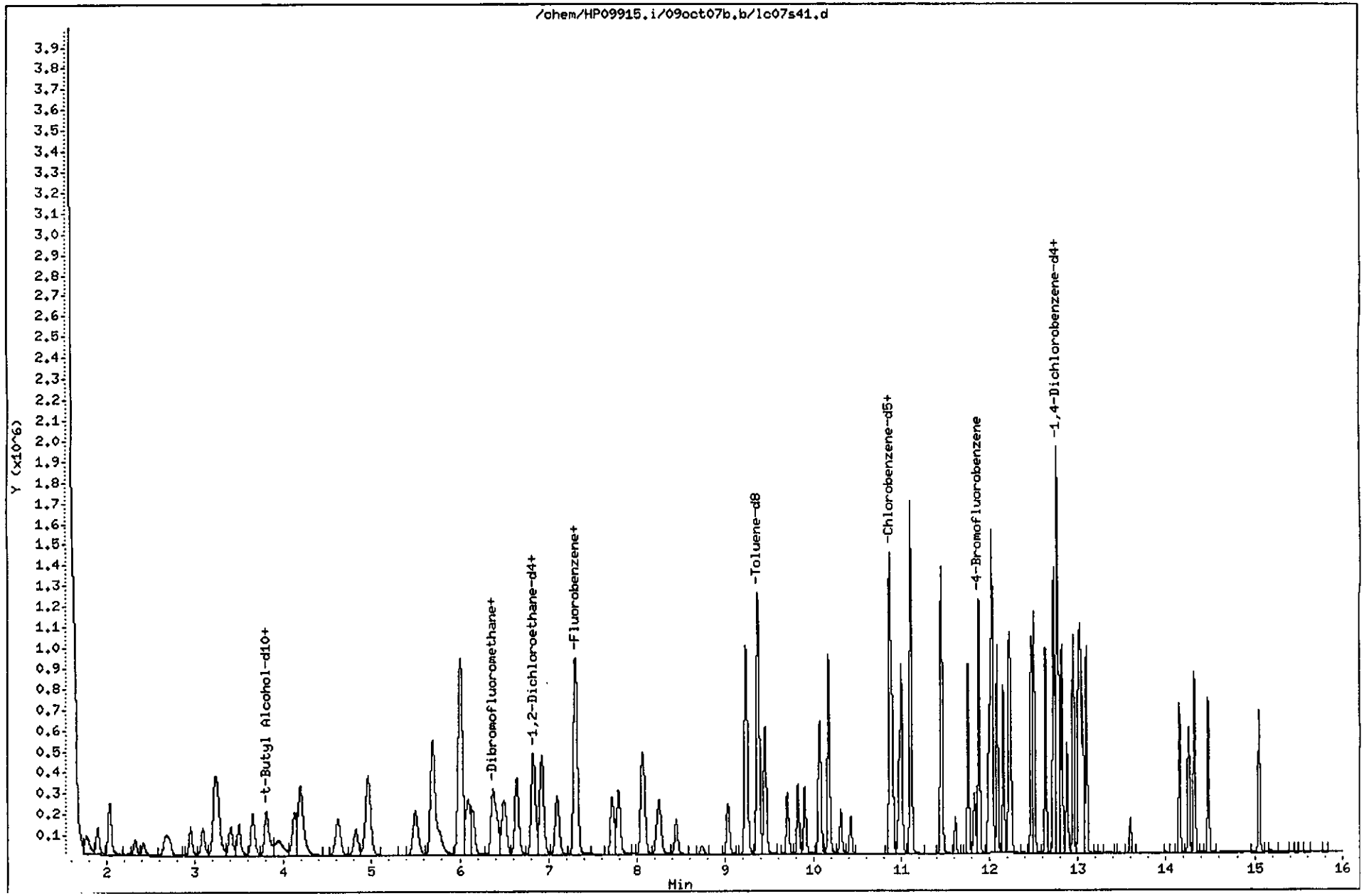
PTL03 0488

Data File: /ohem/HP09915.i/09oct07b.b/lc07s41.d
Date : 08-OCT-2009 00:29
Client ID: PA19DMSD
Sample Info: PA19DMSD;5796211;1;3;MSD;;;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: NPR02223
Column diameter: 0.25

Page 1



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct07b.b/lc07s41.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 00:29 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: MHW
Calibration date and time: 24-SEP-2009 09:28
Date, time and analyst ID of latest file update: 08-Oct-2009 23:38 maz02012

Sample Name: PA19DMSD Lab Sample ID: 5796211

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.774	85	169370	20.114
3) Chloromethane	(1)	1.900	50	176645	22.950
4) Vinyl Chloride	(1)	2.025	62	166249	23.782
8) Bromomethane	(1)	2.327	94	64951	16.909
9) Chloroethane	(1)	2.417	64	71649	22.252
11) Trichlorofluoromethane	(1)	2.675	101	232374	26.544
19) 1,1-Dichloroethene	(1)	3.228	96	119413	30.296
21) Acetone	(1)	3.260	43	398761	174.063
29) Methylene Chloride	(1)	3.806	84	120613	21.364
33) trans-1,2-Dichloroethene	(1)	4.192	96	116567	23.546
34) Methyl Tertiary Butyl Ether	(1)	4.205	73	354090	20.135
36) 1,1-Dichloroethane	(1)	4.819	63	223874	23.749
44) cis-1,2-Dichloroethene	(1)	5.684	96	123437	23.271
45) 2-Butanone	(1)	5.703	43	671796	142.913
46) 2,2-Dichloropropane	(1)	5.694	77	164463	22.852
51) Bromochloromethane	(1)	6.028	128	61065	24.020
53) Chloroform	(1)	6.154	83	213772	25.029
57) 1,1,1-Trichloroethane	(1)	6.420	97	203396	24.815
61) 1,1-Dichloropropene	(1)	6.646	75	167483	23.760
62) Carbon Tetrachloride	(1)	6.652	117	153496	24.374
67) Benzene	(1)	6.922	78	487145	23.578
68) 1,2-Dichloroethane	(1)	6.941	62	175287	22.202
72) *Fluorobenzene	(1)	7.305	96	1039284	50.000
76) Trichloroethene	(1)	7.797	95	127176	24.888
79) 1,2-Dichloropropane	(1)	8.086	63	131339	22.779
80) Dibromomethane	(1)	8.234	93	77678	21.750
84) Bromodichloromethane	(1)	8.446	83	143063	22.427
87) cis-1,3-Dichloropropene	(1)	9.038	75	175300	20.950
89) 4-Methyl-2-Pentanone	(1)	9.237	43	938956	98.424
93) Toluene	(2)	9.456	92	308258	24.466
94) trans-1,3-Dichloropropene	(2)	9.707	75	171772	20.340
96) 1,1,2-Trichloroethane	(2)	9.903	97	109042	22.180
97) Tetrachloroethene	(2)	10.063	166	138614	25.316
98) 1,3-Dichloropropane	(2)	10.080	76	199340	21.896

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct07b.b/lc07s41.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 00:29 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: MHW
Calibration date and time: 24-SEP-2009 09:28
Date, time and analyst ID of latest file update: 08-Oct-2009 23:38 maz02012

Sample Name: PA19DMSD Lab Sample ID: 5796211

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
102) Dibromochloromethane	(2)	10.311	129	113667	20.949
103) 1,2-Dibromoethane	(2)	10.424	107	118281	21.514
104) *Chlorobenzene-d5	(2)	10.874	117	770836	50.000
105) Chlorobenzene	(2)	10.899	112	350850	24.305
107) 1,1,1,2-Tetrachloroethane	(2)	10.973	131	116258	23.348
108) Ethylbenzene	(2)	11.002	91	594611	24.016
109) m+p-Xylene	(2)	11.108	106	472378	49.269
111) o-Xylene	(2)	11.452	106	213426	23.268
112) Styrene	(2)	11.462	104	346721	22.925
113) Bromoform	(2)	11.616	173	74395	18.248
115) Isopropylbenzene	(2)	11.761	105	542517	22.613
120) 1,1,2,2-Tetrachloroethane	(3)	11.989	83	167542	21.050
122) Bromobenzene	(3)	12.005	156	146978	24.283
123) 1,2,3-Trichloropropane	(3)	12.025	110	49328	20.501
125) n-Propylbenzene	(3)	12.086	120	160978	24.524
126) 2-Chlorotoluene	(3)	12.157	126	136017	24.011
127) 1,3,5-Trimethylbenzene	(3)	12.221	120	234117	24.231
128) 4-Chlorotoluene	(3)	12.240	126	142806	24.161
130) tert-Butylbenzene	(3)	12.472	134	108913	24.616
132) 1,2,4-Trimethylbenzene	(3)	12.504	105	483097	23.535
134) sec-Butylbenzene	(3)	12.632	134	125586	24.871
135) 1,3-Dichlorobenzene	(3)	12.719	146	275780	24.259
136) p-Isopropyltoluene	(3)	12.735	134	139127	24.097
137) *1,4-Dichlorobenzene-d4	(3)	12.768	152	420599	50.000
138) 1,4-Dichlorobenzene	(3)	12.784	146	288176	23.931
143) n-Butylbenzene	(3)	13.028	92	250994	23.668
144) 1,2-Dichlorobenzene	(3)	13.057	146	264992	23.724
146) 1,2-Dibromo-3-Chloropropane	(3)	13.594	75	32350	17.842
147) 1,2,4-Trichlorobenzene	(3)	14.150	180	196118	22.324
148) Hexachlorobutadiene	(3)	14.256	225	97698	23.341
149) Naphthalene	(3)	14.320	128	571745	20.678
150) 1,2,3-Trichlorobenzene	(3)	14.475	180	193735	22.353
54) $Dibromofluoromethane	(1)	6.375	113	255083	50.935
64) $1,2-Dichloroethane-d4	(1)	6.835	102	60130	49.670

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

PTL03 0483

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct07b.b/lc07s41.d Instrument ID: HP09915.i
Injection date and time: 08-OCT-2009 00:29 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: MHW
Calibration date and time: 24-SEP-2009 09:28
Date, time and analyst ID of latest file update: 08-Oct-2009 23:38 maz02012

Sample Name: PA19DMSD Lab Sample ID: 5796211

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
91)$Toluene-d8	(2)	9.375	98	1052381	52.261
119)$4-Bromofluorobenzene	(2)	11.880	95	353790	47.798

$ = Compound is a surrogate standard.

LCSL28

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LCSL28

File: /chem/HP09915.i/09oct07b.b/lc07102.d
Sample: LCSL28;LCSL28;1;3;LCS;;;;;;
Injected At:07-OCT-2009 18:23
Calibration Time: 29-SEP-2009 21:39
Target Method: L8260W.m
Blank Reference: lc07b03.d
Sublist: 8260W

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.829(0.010)	699	65	208985(-6)	250.00	
72) Fluorobenzene	7.304(0.000)	1780	96	1109014(-2)	50.00	
104) Chlorobenzene-d5	10.873(0.000)	2850	117	815549(-2)	50.00	
137) 1,4-Dichlorobenzene-d4	12.767(0.000)	3479	152	462316(-5)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.369(0.000)	113	270326	50.585	101%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.832(0.000)	102	64233	49.723	99%		77 - 113
91) Toluene-d8	(2)	9.375(0.000)	98	1108480	52.029	104%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.880(0.000)	95	397438	50.751	102%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)	1.781(0.000)	85	140769	15.667	15.67			2.00	5.00
3) Chloromethane	(1)	1.903(0.002)	50	169209	20.602	20.60			1.00	5.00
4) Vinyl Chloride	(1)	2.028(0.002)	62	155740	20.878	20.88			1.00	5.00
8) Bromomethane	(1)	2.321(0.003)	94	56782	13.669	13.67			1.00	5.00
9) Chloroethane	(1)	2.417(0.002)	64	67244	19.571	19.57			1.00	5.00
10) Dichlorofluoromethane	(1)	2.617(0.001)	67	231524	31.088	31.09			2.00	5.00
11) Trichlorofluoromethane	(1)	2.668(0.007)	101	202803	21.709	21.71			2.00	5.00
15) Ethyl Ether	(1)	2.951(0.000)	59	107931	26.782	26.78			2.00	5.00
16) Freon 123a	(1)	2.964(0.001)	67	137368	30.773	30.77			2.00	5.00
18) Acrolein	(4)	3.089(0.000)	56	199980	140.440	140.44			40.00	100.00
19) 1,1-Dichloroethene	(1)	3.224(0.001)	96	91696	21.801	21.80			0.80	5.00
20) Freon 113	(1)	3.247(0.001)	101	99745	21.088	21.09			2.00	10.00
21) Acetone	(1)	3.253(0.001)	43	447186	182.928	182.93			6.00	20.00
22) 2-Propanol	(4)	3.404(-0.001)	45	104086	177.290	177.29			50.00	100.00
23) Methyl Iodide	(1)	3.404(0.001)	142	179820	20.679	20.68			1.00	5.00
24) Carbon Disulfide	(1)	3.498(0.000)	76	328857	18.694	18.69			1.00	5.00
27) Allyl Chloride	(1)	3.645(0.001)	41	196760	23.098	23.10			1.00	5.00
28) Methyl Acetate	(1)	3.662(0.000)	43	137230	19.519	19.52			1.00	5.00
29) Methylene Chloride	(1)	3.803(0.000)	84	121578	20.181	20.18			2.00	5.00
31) t-Butyl Alcohol	(4)	3.945(-0.003)	59	202836	223.910	223.91			10.00	80.00
32) Acrylonitrile	(1)	4.115(0.002)	53	321730	90.637	90.64			4.00	20.00
33) trans-1,2-Dichloroethene	(1)	4.186(0.001)	96	110024	20.827	20.83			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)	4.195(0.001)	73	351951	18.755	18.75			0.50	5.00
35) n-Hexane	(1)	4.617(0.001)	57	154732	18.020	18.02			2.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0485

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LCSL28

File: /chem/HP09915.i/09oct07b.b/lc07l02.d
Sample: LCSL28;LCSL28;1;3;LCS;;;;;;
Injected At:07-OCT-2009 18:23
Calibration Time: 29-SEP-2009 21:39
Target Method: L8260W.m
Blank Reference: lc07b03.d
Sublist: 8260W

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
42) 1,2-Dichloroethene (total)	(1)		96	228211	41.707	41.71			0.80	5.00
36) 1,1-Dichloroethane	(1)	4.816(0.000)	63	204666	20.347	20.35			1.00	5.00
40) di-Isopropyl Ether	(1)	4.948(0.000)	45	419910	19.605	19.60			0.80	5.00
41) 2-Chloro-1,3-Butadiene	(1)	4.967(0.000)	53	185465	20.353	20.35			1.00	5.00
43) Ethyl t-Butyl Ether	(1)	5.501(0.000)	59	350747	19.132	19.13			0.80	5.00
44) cis-1,2-Dichloroethene	(1)	5.684(0.000)	96	118187	20.880	20.88			0.80	5.00
45) 2-Butanone	(1)	5.694(0.001)	43	723230	144.181	144.18			3.00	10.00
46) 2,2-Dichloropropane	(1)	5.694(0.001)	77	151570	19.737	19.74			1.00	5.00
47) Propionitrile	(4)	5.771(-0.003)	54	195734	146.482	146.48			30.00	100.00
50) Methacrylonitrile	(1)	6.005(0.000)	67	503353	142.826	142.83			10.00	50.00
51) Bromochloromethane	(1)	6.022(0.000)	128	60495	22.300	22.30			1.00	5.00
52) Tetrahydrofuran	(4)	6.092(-0.005)	71	105697	103.715	103.71			4.00	10.00
53) Chloroform	(1)	6.150(0.000)	83	192606	21.133	21.13			0.80	5.00
57) 1,1,1-Trichloroethane	(1)	6.414(0.000)	97	184671	21.114	21.11			0.80	5.00
60) Cyclohexane	(1)	6.501(0.000)	56	192726	18.852	18.85			2.00	5.00
61) 1,1-Dichloropropene	(1)	6.639(0.000)	75	151725	20.171	20.17			1.00	5.00
62) Carbon Tetrachloride	(1)	6.649(0.000)	117	139366	20.739	20.74			1.00	5.00
63) Isobutyl Alcohol	(4)	6.816(-0.004)	41	190300	503.567	503.57			100.00	250.00
67) Benzene	(1)	6.922(0.000)	78	462277	20.967	20.97			0.50	5.00
68) 1,2-Dichloroethane	(1)	6.935(0.000)	62	168779	20.033	20.03			1.00	5.00
71) t-Amyl Methyl Ether	(1)	7.099(0.000)	73	324683	19.038	19.04			0.80	5.00
74) n-Heptane	(1)	7.321(0.000)	43	161700	17.226	17.23			2.00	5.00
75) n-Butanol	(4)	7.722(-0.006)	56	292013	976.960	976.96			100.00	250.00
76) Trichloroethene	(1)	7.800(0.000)	95	116284	21.325	21.33			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 8486

LCSL28

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LCSL28

File: /chem/HP09915.i/09oct07b.b/lc07102.d
Sample: LCSL28;LCSL28;1;3;LCS;;;;;;
Injected At:07-OCT-2009 18:23
Calibration Time: 29-SEP-2009 21:39
Target Method: L8260W.m
Blank Reference: lc07b03.d
Sublist: 8260W

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
77) Methylcyclohexane	(1)	8.060	(0.000)	83	180860	21.281	21.28			1.00	5.00
79) 1,2-Dichloropropane	(1)	8.079	(0.000)	63	127282	20.687	20.69			1.00	5.00
80) Dibromomethane	(1)	8.237	(0.000)	93	78015	20.471	20.47			1.00	5.00
81) Methyl Methacrylate	(1)	8.263	(-0.001)	69	105439	18.815	18.81			1.00	5.00
82) 1,4-Dioxane	(4)	8.269	(-0.005)	88	41180	520.152	520.15			70.00	250.00
84) Bromodichloromethane	(1)	8.446	(0.000)	83	138949	20.412	20.41			1.00	5.00
85) 2-Nitropropane	(1)	8.742	(0.000)	41	35874	15.510	15.51			2.00	10.00
86) 2-Chloroethyl Vinyl Ether	(1)	8.857	(0.000)	63	94118	20.030	20.03			2.00	10.00
87) cis-1,3-Dichloropropene	(1)	9.031	(0.000)	75	184017	20.609	20.61			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)	9.237	(0.000)	43	944071	92.738	92.74			3.00	10.00
93) Toluene	(2)	9.452	(0.000)	92	284948	21.376	21.38			0.70	5.00
94) trans-1,3-Dichloropropene	(2)	9.703	(0.000)	75	178609	19.990	19.99			1.00	5.00
95) Ethyl Methacrylate	(2)	9.822	(0.000)	69	185275	20.049	20.05			1.00	5.00
96) 1,1,2-Trichloroethane	(2)	9.902	(0.000)	97	109566	21.065	21.06			0.80	5.00
97) Tetrachloroethene	(2)	10.063	(0.000)	166	128545	22.190	22.19			0.80	5.00
98) 1,3-Dichloropropane	(2)	10.079	(0.000)	76	197062	20.459	20.46			1.00	5.00
100) 2-Hexanone	(2)	10.173	(0.000)	43	720185	89.290	89.29			3.00	10.00
102) Dibromochloromethane	(2)	10.311	(0.000)	129	116932	20.369	20.37			1.00	5.00
103) 1,2-Dibromoethane	(2)	10.420	(0.000)	107	119251	20.501	20.50			1.00	5.00
105) Chlorobenzene	(2)	10.899	(0.000)	112	334617	21.910	21.91			0.80	5.00
107) 1,1,1,2-Tetrachloroethane	(2)	10.976	(0.000)	131	110413	20.958	20.96			1.00	5.00
108) Ethylbenzene	(2)	11.002	(0.000)	91	561789	21.446	21.45			0.80	5.00
109) m+p-Xylene	(2)	11.108	(0.000)	106	447117	44.077	44.08			0.80	5.00
110) Xylene (Total)	(2)			106	660790	66.095	66.09			0.80	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL83 0487

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LCSL28

File: /chem/HP09915.i/09oct07b.b/lc07102.d
Sample: LCSL28;LCSL28;1;3;LCS;;;;;;
Injected At:07-OCT-2009 18:23
Calibration Time: 29-SEP-2009 21:39
Target Method: L8260W.m
Blank Reference: lc07b03.d
Sublist: 8260W

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
111) o-Xylene	(2)	11.452	(0.000)	106	213673	22.017	22.02			0.80	5.00
112) Styrene	(2)	11.462	(0.000)	104	356624	22.287	22.29			1.00	5.00
113) Bromoform	(2)	11.613	(0.000)	173	85377	19.794	19.79			1.00	5.00
115) Isopropylbenzene	(2)	11.758	(0.000)	105	530943	20.917	20.92			1.00	5.00
117) Cyclohexanone	(4)	11.828	(-0.007)	55	144918	498.285	498.28			55.00	250.00
120) 1,1,2,2-Tetrachloroethane	(3)	11.986	(0.000)	83	175960	20.113	20.11			1.00	5.00
122) Bromobenzene	(3)	12.005	(0.000)	156	148361	22.300	22.30			1.00	5.00
123) 1,2,3-Trichloropropane	(3)	12.025	(0.000)	110	51710	19.552	19.55			1.00	5.00
124) trans-1,4-Dichloro-2-Butene	(3)	12.031	(0.000)	53	280586	89.161	89.16			15.00	50.00
125) n-Propylbenzene	(3)	12.086	(0.000)	120	159341	22.084	22.08			1.00	5.00
126) 2-Chlorotoluene	(3)	12.156	(0.000)	126	135571	21.773	21.77			1.00	5.00
127) 1,3,5-Trimethylbenzene	(3)	12.221	(0.000)	120	232074	21.852	21.85			1.00	5.00
128) 4-Chlorotoluene	(3)	12.240	(0.000)	126	144532	22.247	22.25			1.00	5.00
130) tert-Butylbenzene	(3)	12.471	(0.000)	134	105273	21.646	21.65			1.00	5.00
131) Pentachloroethane	(3)	12.491	(0.000)	167	87621	20.895	20.90			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)	12.507	(0.000)	105	482956	21.405	21.41			1.00	5.00
134) sec-Butylbenzene	(3)	12.632	(0.000)	134	119524	21.535	21.53			1.00	5.00
135) 1,3-Dichlorobenzene	(3)	12.719	(0.000)	146	276919	22.161	22.16			1.00	5.00
136) p-Isopropyltoluene	(3)	12.735	(0.000)	134	138140	21.767	21.77			1.00	5.00
138) 1,4-Dichlorobenzene	(3)	12.783	(0.000)	146	290645	21.958	21.96			1.00	5.00
139) 1,2,3-Trimethylbenzene	(3)	12.816	(0.000)	120	210579	20.721	20.72			1.00	5.00
140) Benzyl Chloride	(3)	12.877	(0.000)	91	327843	18.814	18.81			1.00	5.00
141) 1,3-Diethylbenzene	(3)	12.947	(0.000)	119	288934	20.373	20.37			1.00	5.00
142) 1,4-Diethylbenzene	(3)	13.008	(0.000)	119	290103	20.485	20.49			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0488

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LCSL28

File: /chem/HP09915.i/09oct07b.b/lc07l02.d
Sample: LCSL28;LCSL28;1;3;LCS;;;;;;
Injected At:07-OCT-2009 18:23
Calibration Time: 29-SEP-2009 21:39
Target Method: L8260W.m
Blank Reference: lc07b03.d
Sublist: 8260W

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092802AA
Analyst:NPR02223
Instrument ID:HP09915.i
Standard Reference: lc07c02.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
143) n-Butylbenzene	(3)	13.028(0.000)	92	241831	20.746	20.75			1.00	5.00
144) 1,2-Dichlorobenzene	(3)	13.057(0.000)	146	264430	21.537	21.54			1.00	5.00
145) 1,2-Diethylbenzene	(3)	13.098(0.000)	119	240924	20.545	20.55			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)	13.594(0.000)	75	34082	17.101	17.10			2.00	5.00
147) 1,2,4-Trichlorobenzene	(3)	14.150(0.000)	180	195956	20.293	20.29			1.00	5.00
148) Hexachlorobutadiene	(3)	14.253(0.000)	225	91674	19.925	19.93			2.00	5.00
149) Naphthalene	(3)	14.320(0.000)	128	586926	19.311	19.31			1.00	5.00
150) 1,2,3-Trichlorobenzene	(3)	14.475(0.000)	180	192856	20.243	20.24			1.00	5.00
152) 2-Methylnaphthalene	(3)	15.053(0.000)	142	291048	15.613	15.61			2.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

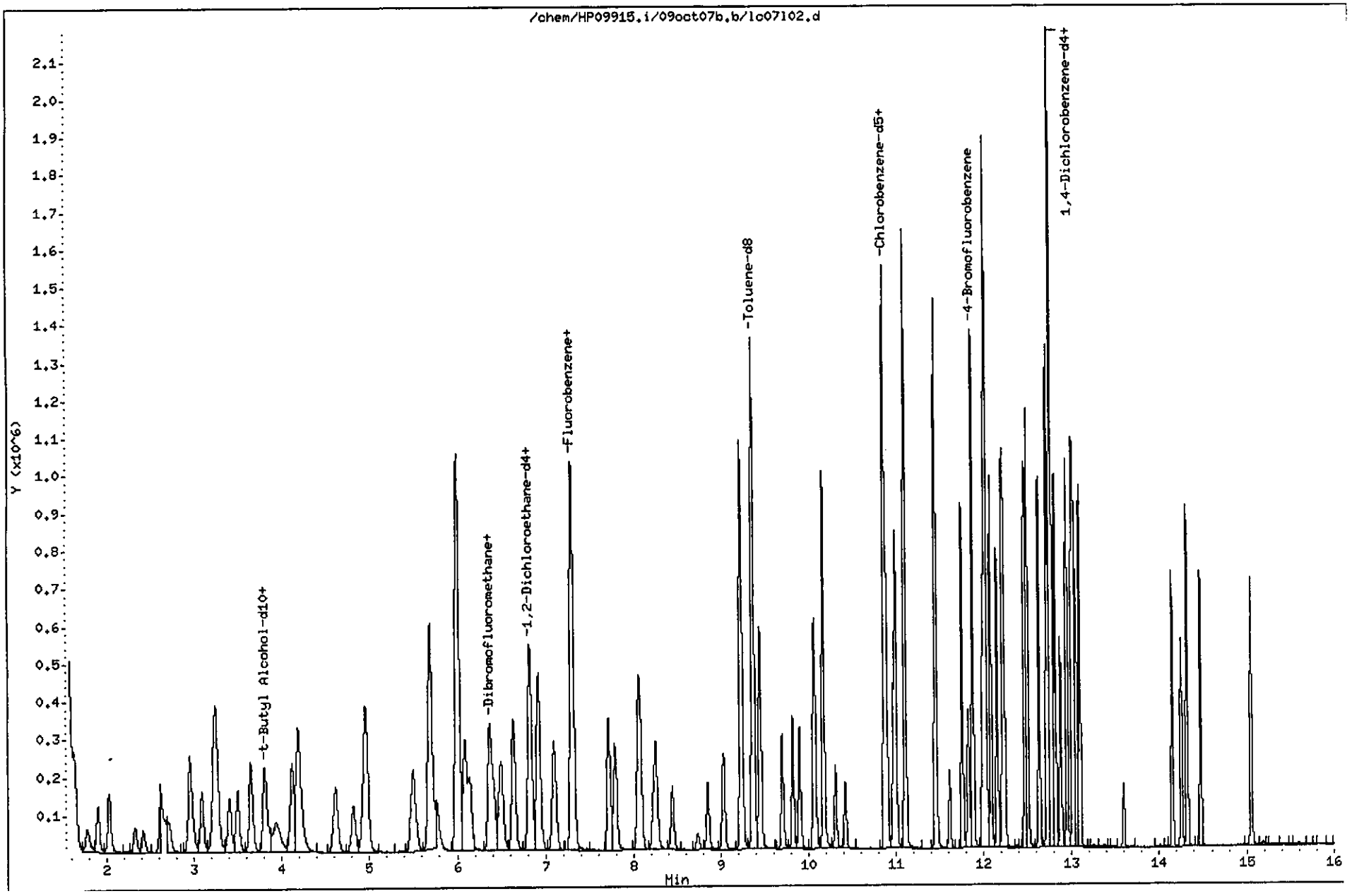
Comments:

Analyst: NPR2223 Date: 10/2/09

Auditor: Date: 10.1.09

Data File: /chem/HP09915.i/09oct07b.b/lc07102.d
Date : 07-OCT-2009 18:23
Client ID: LCSL28
Sample Info: LCSL28;LCSL28;1;3;LCS;;;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i
Operator: NPR02223
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct07b.b/lc07l02.d Instrument ID: HP09915.i
Injection date and time: 07-OCT-2009 18:23 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: 8260W
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 07-Oct-2009 18:55 npr02223

Sample Name: LCSL28 Lab Sample ID: LCSL28

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.781	85	140769	15.667
3) Chloromethane	(1)	1.903	50	169209	20.602
4) Vinyl Chloride	(1)	2.028	62	155740	20.878
8) Bromomethane	(1)	2.321	94	56782	13.669
9) Chloroethane	(1)	2.417	64	67244	19.571
10) Dichlorofluoromethane	(1)	2.617	67	231524	31.088
11) Trichlorofluoromethane	(1)	2.668	101	202803	21.709
15) Ethyl Ether	(1)	2.951	59	107931	26.782
16) Freon 123a	(1)	2.964	67	137368	30.773
18) Acrolein	(4)	3.089	56	199980	140.440
19) 1,1-Dichloroethene	(1)	3.224	96	91696	21.801
20) Freon 113	(1)	3.247	101	99745	21.088
21) Acetone	(1)	3.253	43	447186	182.928
22) 2-Propanol	(4)	3.404	45	104086	177.290
23) Methyl Iodide	(1)	3.404	142	179820	20.679
24) Carbon Disulfide	(1)	3.498	76	328857	18.694
27) Allyl Chloride	(1)	3.645	41	196760	23.098
28) Methyl Acetate	(1)	3.662	43	137230	19.519
29) Methylene Chloride	(1)	3.803	84	121578	20.181
30)*t-Butyl Alcohol-d10	(4)	3.829	65	208985	250.000
31) t-Butyl Alcohol	(4)	3.945	59	202836	223.910
32) Acrylonitrile	(1)	4.115	53	321730	90.637
33) trans-1,2-Dichloroethene	(1)	4.186	96	110024	20.827
34) Methyl Tertiary Butyl Ether	(1)	4.195	73	351951	18.755
35) n-Hexane	(1)	4.617	57	154732	18.020
42) 1,2-Dichloroethene (total)	(1)		96	228211	41.707
36) 1,1-Dichloroethane	(1)	4.816	63	204666M	20.347
40) di-Isopropyl Ether	(1)	4.948	45	419910	19.605
41) 2-Chloro-1,3-Butadiene	(1)	4.967	53	185465	20.353
43) Ethyl t-Butyl Ether	(1)	5.501	59	350747M	19.132
44) cis-1,2-Dichloroethene	(1)	5.684	96	118187	20.880
45) 2-Butanone	(1)	5.694	43	723230	144.181
46) 2,2-Dichloropropane	(1)	5.694	77	151570	19.737
47) Propionitrile	(4)	5.771	54	195734	146.482

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct07b.b/lc07l02.d Instrument ID: HP09915.i
Injection date and time: 07-OCT-2009 18:23 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: 8260W
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 07-Oct-2009 18:55 npr02223

Sample Name: LCSL28 Lab Sample ID: LCSL28

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
50) Methacrylonitrile	(1)	6.005	67	503353	142.826
51) Bromochloromethane	(1)	6.022	128	60495	22.300
52) Tetrahydrofuran	(4)	6.092	71	105697	103.715
53) Chloroform	(1)	6.150	83	192606	21.133
57) 1,1,1-Trichloroethane	(1)	6.414	97	184671	21.114
60) Cyclohexane	(1)	6.501	56	192726	18.852
61) 1,1-Dichloropropene	(1)	6.639	75	151725	20.171
62) Carbon Tetrachloride	(1)	6.649	117	139366	20.739
63) Isobutyl Alcohol	(4)	6.816	41	190300	503.567
67) Benzene	(1)	6.922	78	462277	20.967
68) 1,2-Dichloroethane	(1)	6.935	62	168779	20.033
71) t-Amyl Methyl Ether	(1)	7.099	73	324683	19.038
72)*Fluorobenzene	(1)	7.304	96	1109014	50.000
74) n-Heptane	(1)	7.321	43	161700	17.226
75) n-Butanol	(4)	7.722	56	292013	976.960
76) Trichloroethene	(1)	7.800	95	116284	21.325
77) Methylcyclohexane	(1)	8.060	83	180860	21.281
79) 1,2-Dichloropropane	(1)	8.079	63	127282	20.687
80) Dibromomethane	(1)	8.237	93	78015	20.471
81) Methyl Methacrylate	(1)	8.263	69	105439	18.815
82) 1,4-Dioxane	(4)	8.269	88	41180	520.152
84) Bromodichloromethane	(1)	8.446	83	138949	20.412
85) 2-Nitropropane	(1)	8.742	41	35874	15.510
86) 2-Chloroethyl Vinyl Ether	(1)	8.857	63	94118	20.030
87) cis-1,3-Dichloropropene	(1)	9.031	75	184017	20.609
89) 4-Methyl-2-Pentanone	(1)	9.237	43	944071	92.738
93) Toluene	(2)	9.452	92	284948	21.376
94) trans-1,3-Dichloropropene	(2)	9.703	75	178609	19.990
95) Ethyl Methacrylate	(2)	9.822	69	185275	20.049
96) 1,1,2-Trichloroethane	(2)	9.902	97	109566	21.065
97) Tetrachloroethene	(2)	10.063	166	128545	22.190
98) 1,3-Dichloropropane	(2)	10.079	76	197062	20.459
100) 2-Hexanone	(2)	10.173	43	720185	89.290
102) Dibromochloromethane	(2)	10.311	129	116932	20.369

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct07b.b/lc07l02.d Instrument ID: HP09915.i
Injection date and time: 07-OCT-2009 18:23 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: 8260W
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 07-Oct-2009 18:55 npr02223

Sample Name: LCSL28 Lab Sample ID: LCSL28

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
103) 1,2-Dibromoethane	(2)	10.420	107	119251	20.501
104) *Chlorobenzene-d5	(2)	10.873	117	815549	50.000
105) Chlorobenzene	(2)	10.899	112	334617	21.910
107) 1,1,1,2-Tetrachloroethane	(2)	10.976	131	110413	20.958
108) Ethylbenzene	(2)	11.002	91	561789	21.446
109) m+p-Xylene	(2)	11.108	106	447117	44.077
110) Xylene (Total)	(2)		106	660790	66.095
111) o-Xylene	(2)	11.452	106	213673	22.017
112) Styrene	(2)	11.462	104	356624	22.287
113) Bromoform	(2)	11.613	173	85377	19.794
115) Isopropylbenzene	(2)	11.758	105	530943	20.917
117) Cyclohexanone	(4)	11.828	55	144918	498.285
120) 1,1,2,2-Tetrachloroethane	(3)	11.986	83	175960	20.113
122) Bromobenzene	(3)	12.005	156	148361	22.300
123) 1,2,3-Trichloropropane	(3)	12.025	110	51710	19.552
124) trans-1,4-Dichloro-2-Butene	(3)	12.031	53	280586	89.161
125) n-Propylbenzene	(3)	12.086	120	159341	22.084
126) 2-Chlorotoluene	(3)	12.156	126	135571	21.773
127) 1,3,5-Trimethylbenzene	(3)	12.221	120	232074	21.852
128) 4-Chlorotoluene	(3)	12.240	126	144532	22.247
130) tert-Butylbenzene	(3)	12.471	134	105273	21.646
131) Pentachloroethane	(3)	12.491	167	87621	20.895
132) 1,2,4-Trimethylbenzene	(3)	12.507	105	482956	21.405
134) sec-Butylbenzene	(3)	12.632	134	119524	21.535
135) 1,3-Dichlorobenzene	(3)	12.719	146	276919	22.161
136) p-Isopropyltoluene	(3)	12.735	134	138140	21.767
137) *1,4-Dichlorobenzene-d4	(3)	12.767	152	462316	50.000
138) 1,4-Dichlorobenzene	(3)	12.783	146	290645	21.958
139) 1,2,3-Trimethylbenzene	(3)	12.816	120	210579	20.721
140) Benzyl Chloride	(3)	12.877	91	327843	18.814
141) 1,3-Diethylbenzene	(3)	12.947	119	288934	20.373
142) 1,4-Diethylbenzene	(3)	13.008	119	290103	20.485
143) n-Butylbenzene	(3)	13.028	92	241831	20.746
144) 1,2-Dichlorobenzene	(3)	13.057	146	264430	21.537

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct07b.b/lc07l02.d Instrument ID: HP09915.i
Injection date and time: 07-OCT-2009 18:23 Analyst ID: NPR02223

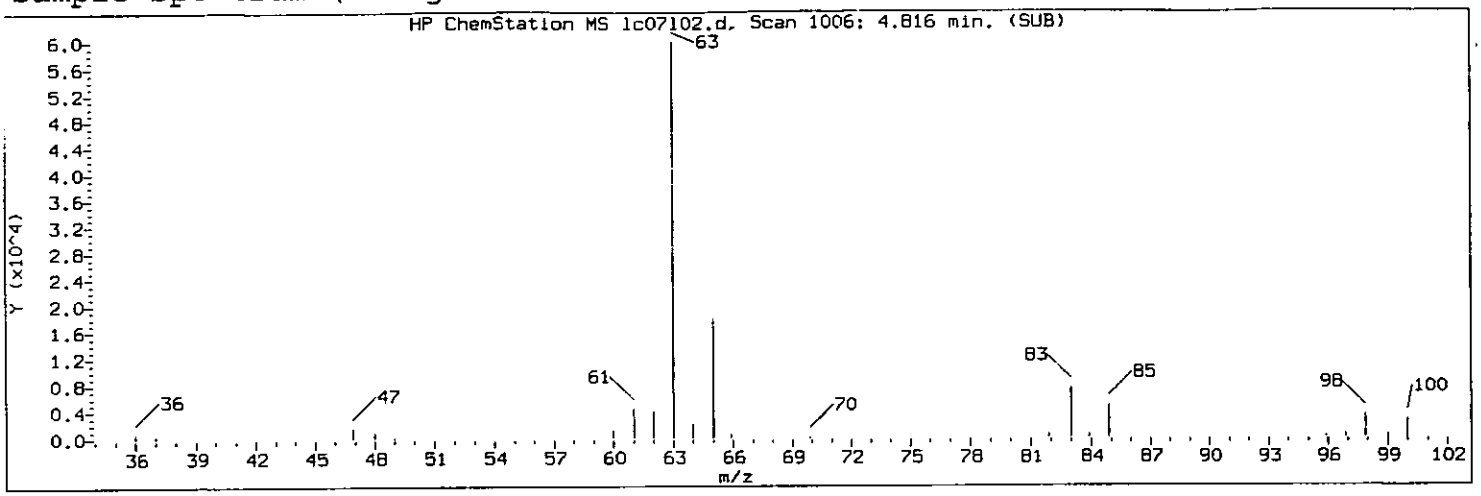
Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: 8260W
Calibration date and time: 29-SEP-2009 21:39
Date, time and analyst ID of latest file update: 07-Oct-2009 18:55 npr02223

Sample Name: LCSL28 Lab Sample ID: LCSL28

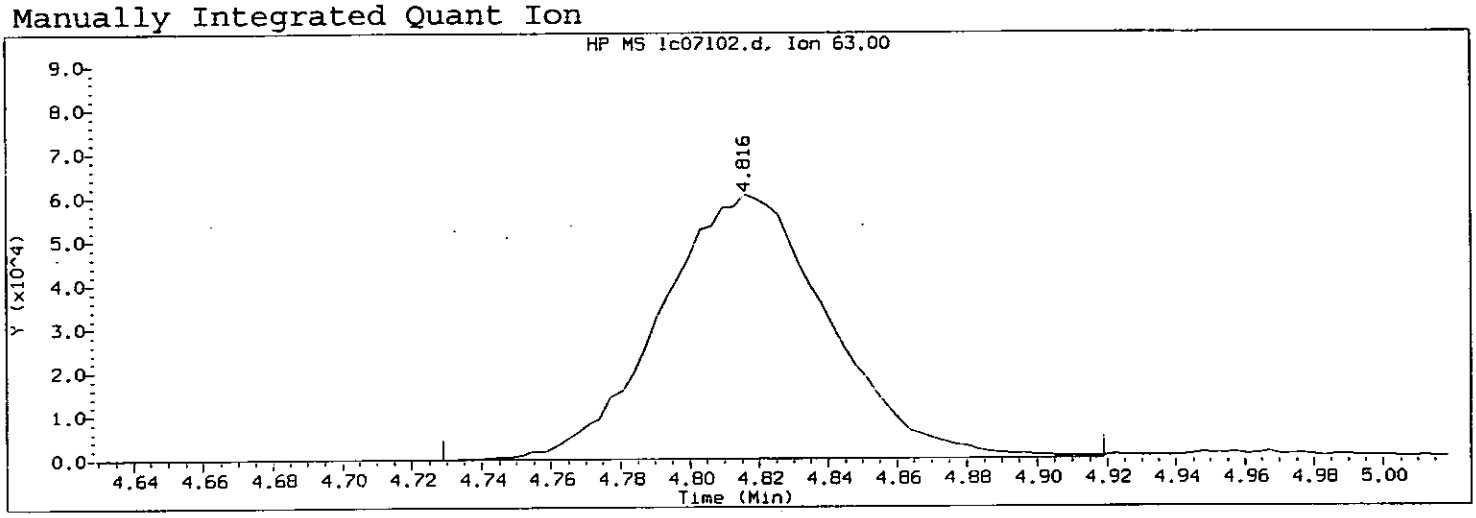
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
145) 1,2-Diethylbenzene	(3)	13.098	119	240924	20.545
146) 1,2-Dibromo-3-Chloropropane	(3)	13.594	75	34082	17.101
147) 1,2,4-Trichlorobenzene	(3)	14.150	180	195956	20.293
148) Hexachlorobutadiene	(3)	14.253	225	91674	19.925
149) Naphthalene	(3)	14.320	128	586926	19.311
150) 1,2,3-Trichlorobenzene	(3)	14.475	180	192856	20.243
152) 2-Methylnaphthalene	(3)	15.053	142	291048	15.613
54) $Dibromofluoromethane	(1)	6.369	113	270326	50.585
64) $1,2-Dichloroethane-d4	(1)	6.832	102	64233	49.723
91) $Toluene-d8	(2)	9.375	98	1108480	52.029
119) $4-Bromofluorobenzene	(2)	11.880	95	397438	50.751

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct07b.b/lc07102.d Instrument ID: HP09915.i
Injection date and time: 07-OCT-2009 18:23 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: 8260W
Calibration date and time: 07-OCT-2009 18:34
Date, time and analyst ID of latest file update: 07-Oct-2009 18:55 npr02223

Sample Name: LCSL28 Lab Sample ID: LCSL28

Compound Number : 36
Compound Name : 1,1-Dichloroethane
Scan Number : 1006
Retention Time (minutes): 4.816
Quant Ion : 63
Area (flag) : 204666 M
Concentration (ug/L) : 20.3465
Integration start scan : 978 Integration stop scan: 1037
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

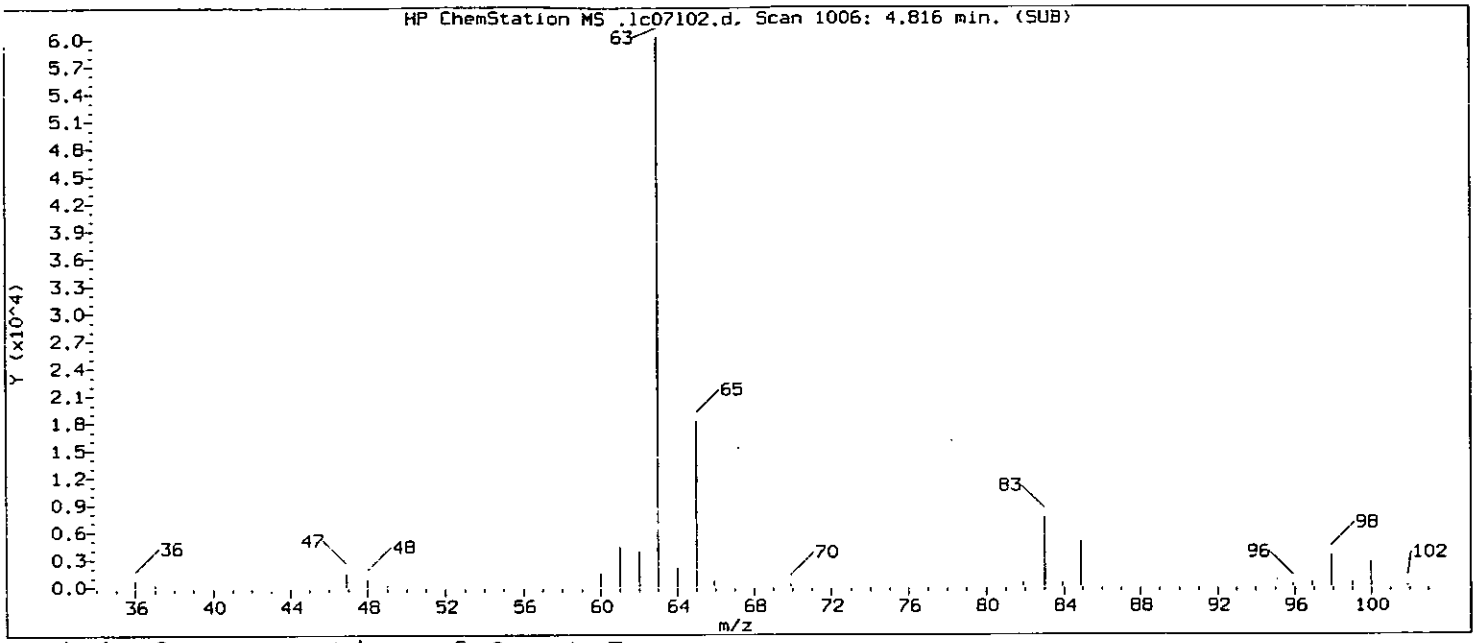
Analyst responsible for change: NPR2223 10/7/09

GC/MS audit/management approval: [signature] 10/10/09

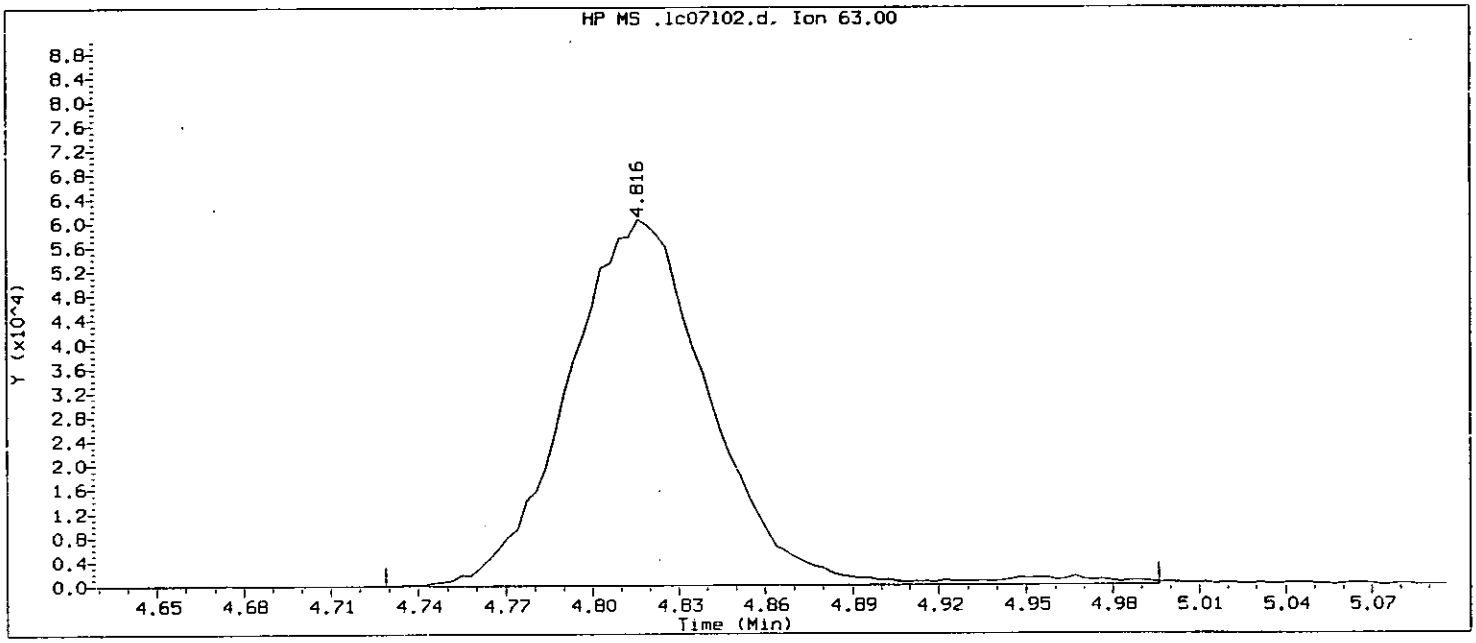
PTL03 0495

Manual Integration Report for data file /chem/HP09915.i/09oct07b.b/lc07102.d, generated on 10/07/2009 at 18:55

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct07b.b/lc07102.d Instrument ID: HP09915.i
Injection date and time: 07-OCT-2009 18:23 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: 8260W
Calibration date and time: 07-OCT-2009 18:34
Date, time and analyst ID of latest file update: 07-Oct-2009 18:42 Automation

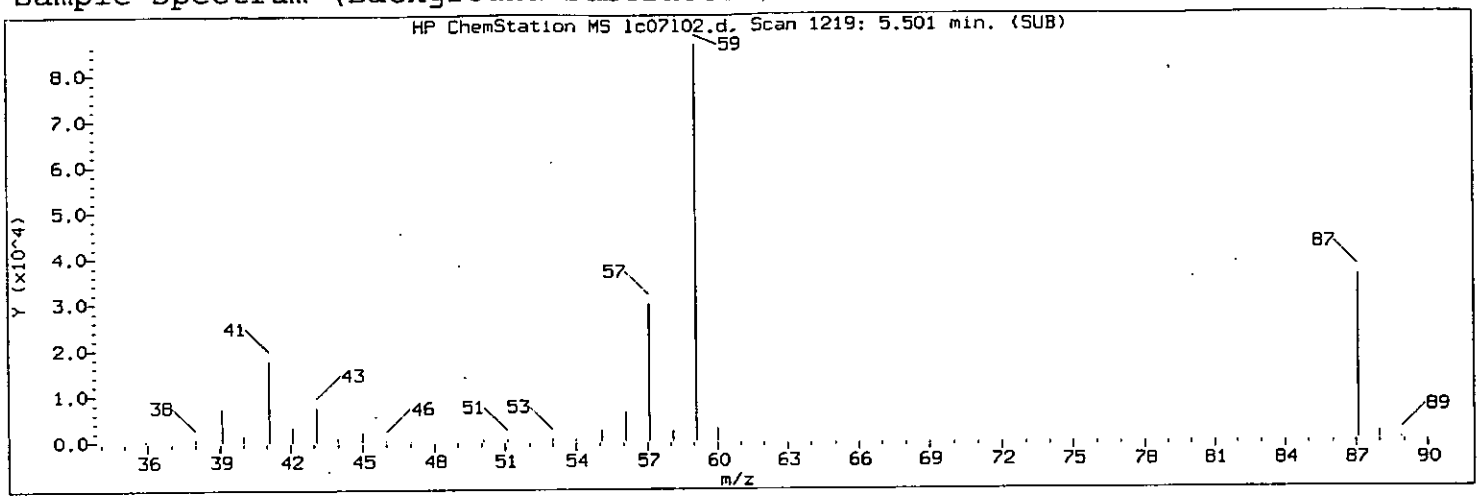
Sample Name: LCSL28 Lab Sample ID: LCSL28

Compound Number : 36
Compound Name : 1,1-Dichloroethane
Scan Number : 1006
Retention Time (minutes): 4.816
Quant Ion : 63
Area : 208613
Concentration (ug/L) : 20.7389
Integration start scan : 978 Integration stop scan: 1061
Y at integration start : 0 Y at integration end: 0

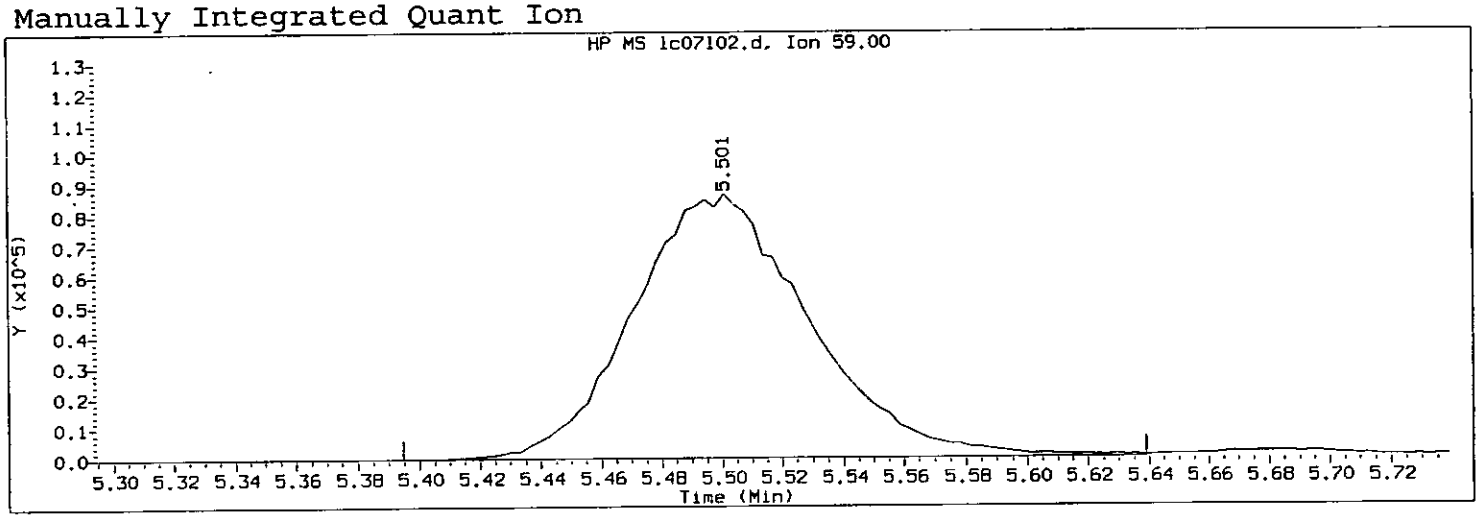
PTL03 0496

Original Integration Report for data file /chem/HP09915.i/09oct07b.b/lc07102.d, generated on 10/07/2009 at 18:55

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct07b.b/lc07102.d Instrument ID: HP09915.i
Injection date and time: 07-OCT-2009 18:23 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: 8260W
Calibration date and time: 07-OCT-2009 18:34
Date, time and analyst ID of latest file update: 07-Oct-2009 18:55 npr02223

Sample Name: LCSL28 Lab Sample ID: LCSL28

Compound Number : 43
Compound Name : Ethyl t-Butyl Ether
Scan Number : 1219
Retention Time (minutes): 5.501
Quant Ion : 59
Area (flag) : 350747 M
Concentration (ug/L) : 19.1317
Integration start scan : 1185 Integration stop scan: 1261
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

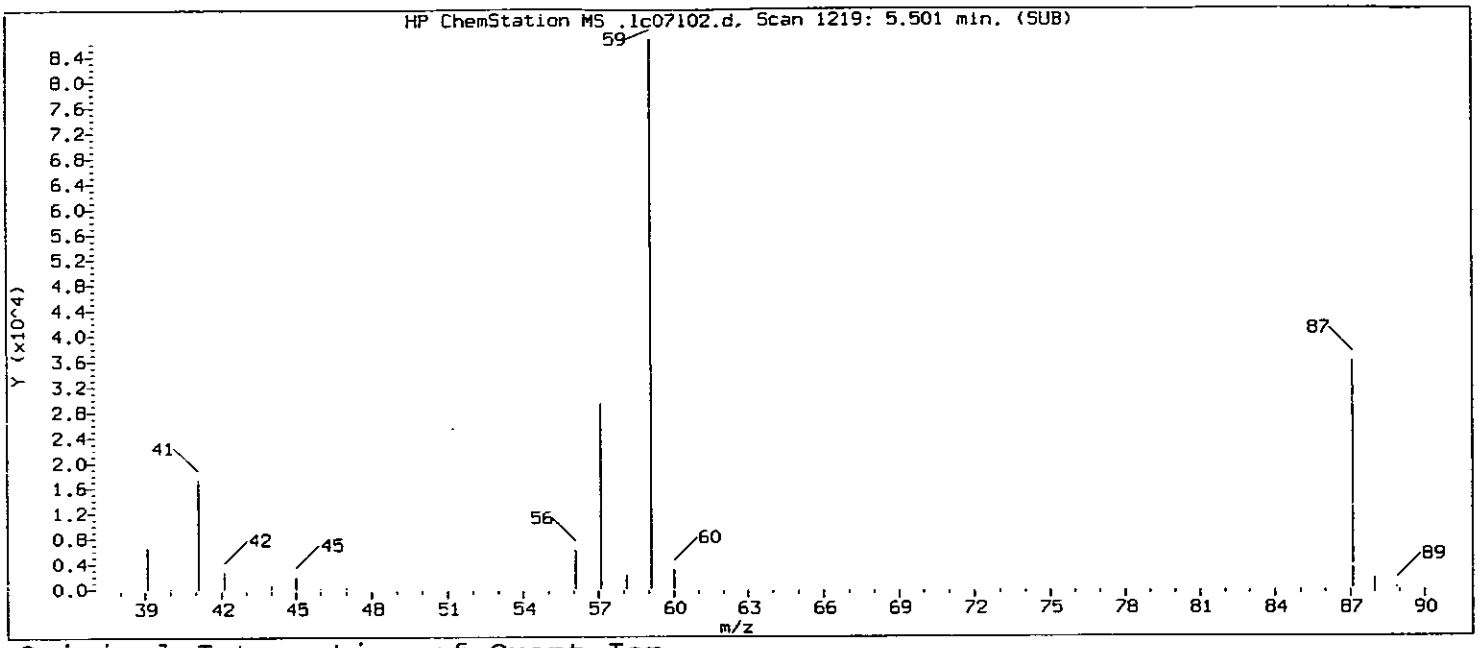
Analyst responsible for change: NPR2223 10/7/09

PTL83 8497

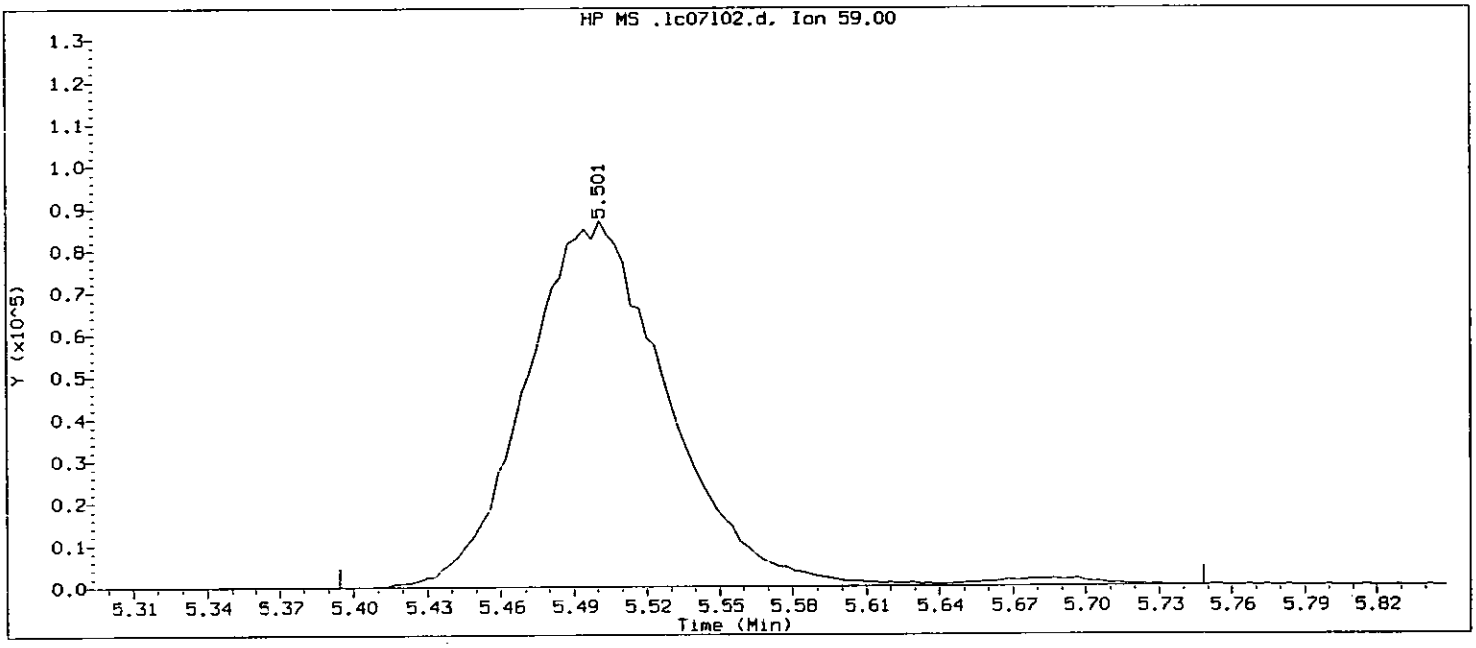
GC/MS audit/management approval: 10-10-09

Manual Integration Report for data file /chem/HP09915.i/09oct07b.b/lc07102.d, generated on 10/07/2009 at 18:55

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct07b.b/lc07102.d Instrument ID: HP09915.i
Injection date and time: 07-OCT-2009 18:23 Analyst ID: NPR02223

Method used: /chem/HP09915.i/09oct07b.b/L8260W.m Sublist used: 8260W
Calibration date and time: 07-OCT-2009 18:34
Date, time and analyst ID of latest file update: 07-Oct-2009 18:42 Automation

Sample Name: LCSL28 Lab Sample ID: LCSL28

Compound Number	: 43
Compound Name	: Ethyl t-Butyl Ether
Scan Number	: 1219
Retention Time (minutes)	: 5.501
Quant Ion	: 59
Area	: 356787
Concentration (ug/L)	: 19.4612
Integration start scan	: 1185 Integration stop scan: 1295
Y at integration start	: 0 Y at integration end: 0

PTL03 0498

Original Integration Report for data file /chem/HP09915.i/09oct07b.b/lc07102.d, generated on 10/07/2009 at 18:55

LCSL31

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LCSL31

File: /chem/HP09915.i/09oct09b.b/lc09105.d
Sample: LCSL31;LCSL31;1;3;LCS;;;;;;
Injected At:09-OCT-2009 19:17
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: 8260W-FR

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:EDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.845(-0.016)	704	65	201862(-5)	250.00	
72) Fluorobenzene	7.308(-0.003)	1781	96	1041976(-4)	50.00	
104) Chlorobenzene-d5	10.874(-0.003)	2890	117	779164(-4)	50.00	
137) 1,4-Dichlorobenzene-d4	12.767(0.000)	3479	152	450618(-1)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.375(0.000)	113	255340	47.873	96%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.845(-0.001)	102	60145	46.696	93%		77 - 113
91) Toluene-d8	(2)	9.375(0.000)	98	1052683	48.468	97%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.880(0.000)	95	379302	49.230	98%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)	1.777(0.001)	85	132841	15.318	15.32			2.00	5.00
3) Chloromethane	(1)	1.906(0.001)	50	154816	20.676	20.68			1.00	5.00
4) Vinyl Chloride	(1)	2.031(0.001)	62	146568	21.472	21.47			1.00	5.00
8) Bromomethane	(1)	2.331(0.001)	94	54580	13.236	13.24			1.00	5.00
9) Chloroethane	(1)	2.424(0.001)	64	51389	13.415	13.42			1.00	5.00
11) Trichlorofluoromethane	(1)	2.694(0.003)	101	188896	20.703	20.70			2.00	5.00
15) Ethyl Ether	(1)	2.964(-0.001)	59	104865	31.703	31.70			2.00	5.00
18) Acrolein	(4)	3.096(0.003)	56	188782	180.383	180.38			40.00	100.00
19) 1,1-Dichloroethene	(1)	3.231(0.000)	96	95111	21.048	21.05			0.80	5.00
20) Freon 113	(1)	3.260(0.000)	101	102721	19.416	19.42			2.00	10.00
21) Acetone	(1)	3.263(0.000)	43	447958	187.081	187.08			6.00	20.00
22) 2-Propanol	(4)	3.424(0.002)	45	103328	157.453	157.45			50.00	100.00
23) Methyl Iodide	(1)	3.411(0.000)	142	179745	18.465	18.46			1.00	5.00
24) Carbon Disulfide	(1)	3.504(-0.001)	76	328110	17.382	17.38			1.00	5.00
27) Allyl Chloride	(1)	3.655(0.000)	41	205040	20.975	20.98			1.00	5.00
28) Methyl Acetate	(1)	3.678(-0.002)	43	138467	21.156	21.16			1.00	5.00
29) Methylene Chloride	(1)	3.806(0.000)	84	120157	19.523	19.52			2.00	5.00
31) t-Butyl Alcohol	(4)	3.961(0.003)	59	195662	206.536	206.54			10.00	80.00
32) Acrylonitrile	(1)	4.131(-0.001)	53	326887	104.065	104.07			4.00	20.00
33) trans-1,2-Dichloroethene	(1)	4.195(-0.001)	96	109605	19.654	19.65			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)	4.208(-0.001)	73	343697	18.961	18.96			0.50	5.00
35) n-Hexane	(1)	4.629(-0.001)	57	154001	17.689	17.69			2.00	5.00
42) 1,2-Dichloroethene (total)	(1)		96	227111	39.616	39.62			0.80	5.00
36) 1,1-Dichloroethane	(1)	4.829(-0.001)	63	204497	19.888	19.89			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL83 0499

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LCSL31

File: /chem/HP09915.i/09oct09b.b/lc09l05.d
Sample: LCSL31;LCSL31;1;3;LCS;;;;;;
Injected At:09-OCT-2009 19:17
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: 8260W-FR

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
40) di-Isopropyl Ether	(1)	4.961(-0.001)	45	413222	20.066	20.07			0.80	5.00
41) 2-Chloro-1,3-Butadiene	(1)	4.973(-0.001)	53	182150	19.794	19.79			1.00	5.00
43) Ethyl t-Butyl Ether	(1)	5.507(-0.001)	59	342554	19.363	19.36			0.80	5.00
44) cis-1,2-Dichloroethene	(1)	5.687(0.000)	96	117506	19.962	19.96			0.80	5.00
45) 2-Butanone	(1)	5.710(-0.002)	43	697296	160.286	160.29			3.00	10.00
46) 2,2-Dichloropropane	(1)	5.707(-0.001)	77	151929	19.379	19.38			1.00	5.00
47) Propionitrile	(4)	5.784(0.003)	54	199169	163.902	163.90			30.00	100.00
50) Methacrylonitrile	(1)	6.009(-0.001)	67	502725	153.273	153.27			10.00	50.00
51) Bromochloromethane	(1)	6.031(-0.001)	128	60620	21.185	21.19			1.00	5.00
52) Tetrahydrofuran	(4)	6.105(0.004)	71	105695	116.496	116.50			4.00	10.00
53) Chloroform	(1)	6.157(-0.001)	83	190165	20.520	20.52			0.80	5.00
57) 1,1,1-Trichloroethane	(1)	6.420(0.000)	97	186482	20.615	20.61			0.80	5.00
60) Cyclohexane	(1)	6.510(0.000)	56	195918	18.331	18.33			2.00	5.00
61) 1,1-Dichloropropene	(1)	6.649(0.000)	75	150749	19.371	19.37			1.00	5.00
62) Carbon Tetrachloride	(1)	6.649(0.000)	117	137686	19.424	19.42			1.00	5.00
63) Isobutyl Alcohol	(4)	6.832(0.004)	41	191464	547.025	547.03			100.00	250.00
67) Benzene	(1)	6.928(-0.001)	78	460605	20.138	20.14			0.50	5.00
68) 1,2-Dichloroethane	(1)	6.941(0.000)	62	168136	21.003	21.00			1.00	5.00
71) t-Amyl Methyl Ether	(1)	7.105(0.000)	73	318037	19.337	19.34			0.80	5.00
74) n-Heptane	(1)	7.324(0.000)	43	162080	18.183	18.18			2.00	5.00
75) n-Butanol	(4)	7.729(0.006)	56	280159	1022.856	1022.86			100.00	250.00
76) Trichloroethene	(1)	7.803(0.000)	95	122172	21.830	21.83			1.00	5.00
77) Methylcyclohexane	(1)	8.070(0.000)	83	187583	20.295	20.29			1.00	5.00
79) 1,2-Dichloropropane	(1)	8.089(0.000)	63	123826	20.016	20.02			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL83 0588

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LCSL31

File: /chem/HP09915.i/09oct09b.b/lc09105.d
Sample: LCSL31;LCSL31;1;3;LCS;;;;;;
Injected At:09-OCT-2009 19:17
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: 8260W-PR

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
80) Dibromomethane	(1)	8.234	(0.000)	93	75356	20.403	20.40			1.00	5.00
81) Methyl Methacrylate	(1)	8.266	(0.000)	69	99876	19.001	19.00			1.00	5.00
82) 1,4-Dioxane	(4)	8.272	(0.007)	88	43551	521.562	521.56			70.00	250.00
84) Bromodichloromethane	(1)	8.449	(0.000)	83	133544	19.761	19.76			1.00	5.00
85) 2-Nitropropane	(1)	8.745	(-0.001)	41	35489	20.029	20.03			2.00	10.00
86) 2-Chloroethyl Vinyl Ether	(1)	8.858	(0.000)	63	91793	20.302	20.30			2.00	10.00
87) cis-1,3-Dichloropropene	(1)	9.038	(0.000)	75	178307	19.767	19.77			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)	9.240	(0.000)	43	921325	103.543	103.54			3.00	10.00
93) Toluene	(2)	9.456	(0.000)	92	278050	20.056	20.06			0.70	5.00
94) trans-1,3-Dichloropropene	(2)	9.706	(0.000)	75	170969	19.522	19.52			1.00	5.00
95) Ethyl Methacrylate	(2)	9.825	(0.000)	69	175008	19.817	19.82			1.00	5.00
96) 1,1,2-Trichloroethane	(2)	9.903	(0.000)	97	106070	20.554	20.55			0.80	5.00
97) Tetrachloroethene	(2)	10.063	(0.000)	166	151656	24.736	24.74			0.80	5.00
98) 1,3-Dichloropropane	(2)	10.079	(0.001)	76	188495	19.809	19.81			1.00	5.00
100) 2-Hexanone	(2)	10.176	(0.000)	43	694942	102.350	102.35			3.00	10.00
102) Dibromochloromethane	(2)	10.314	(0.000)	129	111072	19.233	19.23			1.00	5.00
103) 1,2-Dibromoethane	(2)	10.427	(0.000)	107	113980	19.672	19.67			1.00	5.00
105) Chlorobenzene	(2)	10.899	(0.000)	112	325565	20.672	20.67			0.80	5.00
107) 1,1,1,2-Tetrachloroethane	(2)	10.976	(0.000)	131	105286	19.629	19.63			1.00	5.00
108) Ethylbenzene	(2)	11.002	(0.000)	91	540519	20.158	20.16			0.80	5.00
109) m+p-Xylene	(2)	11.108	(0.000)	106	428978	40.883	40.88			0.80	5.00
110) Xylene (Total)	(2)			106	637956	62.122	62.12			0.80	5.00
111) o-Xylene	(2)	11.452	(0.000)	106	208978	21.239	21.24			0.80	5.00
112) Styrene	(2)	11.462	(0.000)	104	339519	21.047	21.05			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL93 0581

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LCSL31

File: /chem/HP09915.i/09oct09b.b/lc09105.d
Sample: LCSL31;LCSL31;1;3;LCS;;;;;;
Injected At:09-OCT-2009 19:17
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: 8260W-FR

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
113) Bromoform	(2)	11.616	(0.000)	173	82313	19.516	19.52			1.00	5.00
115) Isopropylbenzene	(2)	11.761	(0.000)	105	508281	19.818	19.82			1.00	5.00
117) Cyclohexanone	(4)	11.832	(0.013)	55	167378	554.276	554.28			55.00	250.00
120) 1,1,2,2-Tetrachloroethane	(3)	11.989	(0.000)	83	157146	18.574	18.57			1.00	5.00
122) Bromobenzene	(3)	12.005	(0.000)	156	143421	20.737	20.74			1.00	5.00
123) 1,2,3-Trichloropropane	(3)	12.025	(0.000)	110	50596	20.420	20.42			1.00	5.00
124) trans-1,4-Dichloro-2-Butene	(3)	12.031	(0.000)	53	275715	97.488	97.49			15.00	50.00
125) n-Propylbenzene	(3)	12.086	(0.000)	120	151742	19.839	19.84			1.00	5.00
126) 2-Chlorotoluene	(3)	12.156	(0.000)	126	129711	19.822	19.82			1.00	5.00
127) 1,3,5-Trimethylbenzene	(3)	12.221	(0.000)	120	221849	20.067	20.07			1.00	5.00
128) 4-Chlorotoluene	(3)	12.240	(0.000)	126	137550	20.199	20.20			1.00	5.00
130) tert-Butylbenzene	(3)	12.472	(0.000)	134	97909	19.606	19.61			1.00	5.00
131) Pentachloroethane	(3)	12.488	(0.000)	167	67452	15.893	15.89			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)	12.504	(0.000)	105	467295	20.342	20.34			1.00	5.00
134) sec-Butylbenzene	(3)	12.636	(0.000)	134	115107	19.953	19.95			1.00	5.00
135) 1,3-Dichlorobenzene	(3)	12.722	(0.000)	146	267484	20.866	20.87			1.00	5.00
136) p-Isopropyltoluene	(3)	12.735	(0.000)	134	133325	20.554	20.55			1.00	5.00
138) 1,4-Dichlorobenzene	(3)	12.787	(0.000)	146	280677	20.678	20.68			1.00	5.00
139) 1,2,3-Trimethylbenzene	(3)	12.819	(0.000)	120	217611	21.223	21.22			1.00	5.00
140) Benzyl Chloride	(3)	12.877	(0.000)	91	321699	19.196	19.20			1.00	5.00
141) 1,3-Diethylbenzene	(3)	12.951	(0.000)	119	297512	20.969	20.97			1.00	5.00
142) 1,4-Diethylbenzene	(3)	13.009	(0.000)	119	301853	21.537	21.54			1.00	5.00
143) n-Butylbenzene	(3)	13.031	(0.000)	92	236733	20.145	20.14			1.00	5.00
144) 1,2-Dichlorobenzene	(3)	13.057	(0.000)	146	260341	20.731	20.73			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 8582

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LCSL31

File: /chem/HP09915.i/09oct09b.b/lc09105.d
Sample: LCSL31;LCSL31;1;3;LCS;;;;;;
Injected At:09-OCT-2009 19:17
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc09b05.d
Sublist: 8260W-FR

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092822AA
Analyst:KDP02245
Instrument ID:HP09915.i
Standard Reference: lc09c05.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
145) 1,2-Diethylbenzene	(3)	13.099	(0.000)	119	245998	21.088	21.09			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)	13.594	(0.000)	75	34346	18.795	18.80			2.00	5.00
147) 1,2,4-Trichlorobenzene	(3)	14.150	(0.000)	180	189405	19.728	19.73			1.00	5.00
148) Hexachlorobutadiene	(3)	14.256	(0.000)	225	88369	17.031	17.03			2.00	5.00
149) Naphthalene	(3)	14.320	(0.000)	128	561288	19.368	19.37			1.00	5.00
150) 1,2,3-Trichlorobenzene	(3)	14.475	(0.000)	180	187625	19.643	19.64			1.00	5.00
152) 2-Methylnaphthalene	(3)	15.053	(0.000)	142	266434	16.242	16.24			2.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

Analyst: CBERAN Date: 10/14/09

Auditor: _____ Date: 10/14/09

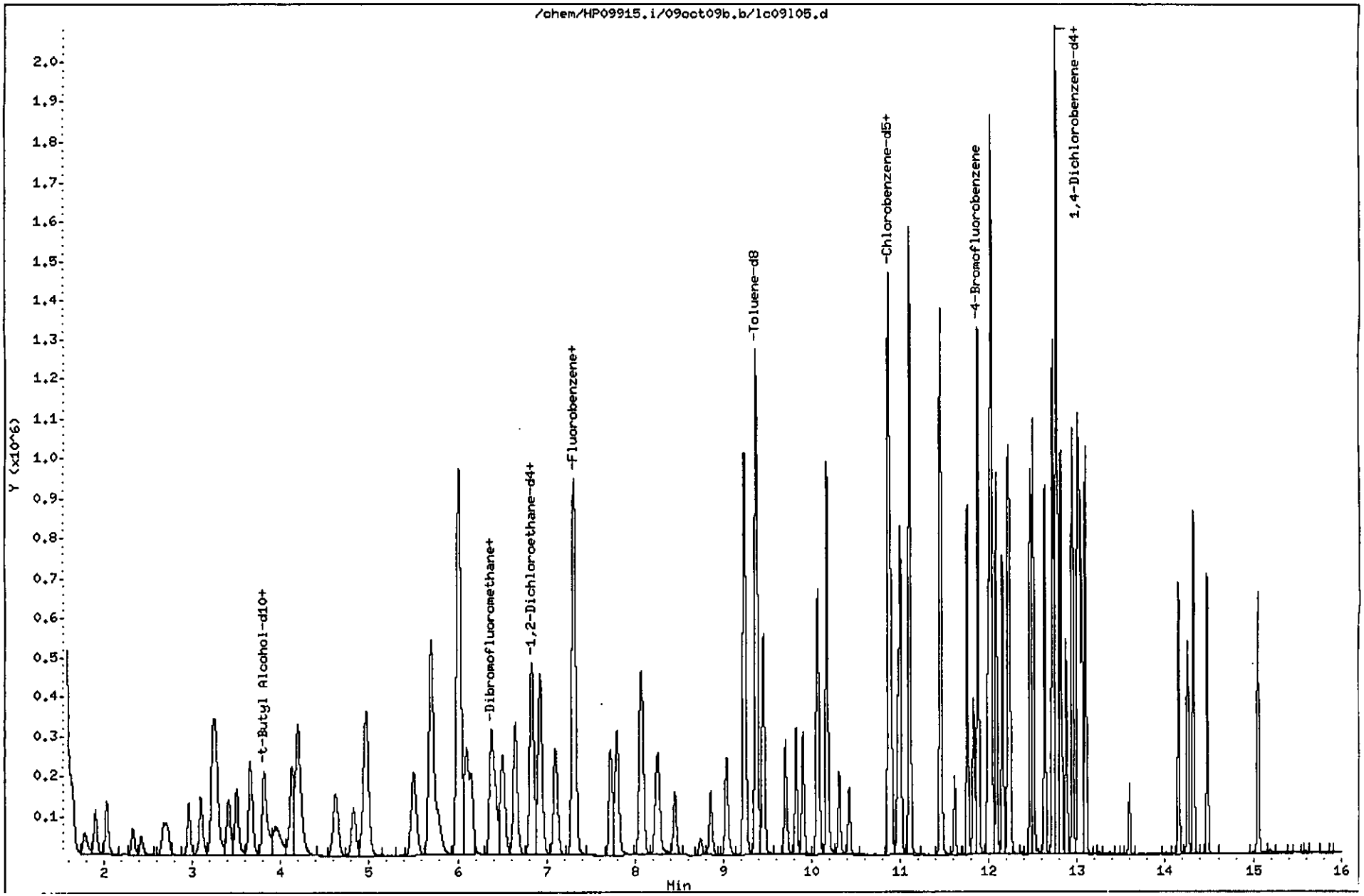
KDP 2245
10/9/09

Page 1

Data File: /chem/HP09915.i/09oct09b.b/lc09105.d
Date : 09-OCT-2009 19:17
Client ID: LCSL31
Sample Info: LCSL31;LCSL31;1;3;LCS;;;;;;
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: KDP02245
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct09b.b/lc09l05.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 19:17 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: 8260W-FR
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 22:36 maz02012

Sample Name: LCSL31 Lab Sample ID: LCSL31

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.777	85	132841	15.318
3) Chloromethane	(1)	1.906	50	154816	20.676
4) Vinyl Chloride	(1)	2.031	62	146568	21.472
8) Bromomethane	(1)	2.331	94	54580	13.236
9) Chloroethane	(1)	2.424	64	51389	13.415
11) Trichlorofluoromethane	(1)	2.694	101	188896	20.703
15) Ethyl Ether	(1)	2.964	59	104865	31.703
18) Acrolein	(4)	3.096	56	188782	180.383
19) 1,1-Dichloroethene	(1)	3.231	96	95111	21.048
20) Freon 113	(1)	3.260	101	102721	19.416
21) Acetone	(1)	3.263	43	447958	187.081
22) 2-Propanol	(4)	3.424	45	103328M	157.453
23) Methyl Iodide	(1)	3.411	142	179745	18.465
24) Carbon Disulfide	(1)	3.504	76	328110	17.382
27) Allyl Chloride	(1)	3.655	41	205040	20.975
28) Methyl Acetate	(1)	3.678	43	138467	21.156
29) Methylene Chloride	(1)	3.806	84	120157	19.523
30) *t-Butyl Alcohol-d10	(4)	3.845	65	201862	250.000
31) t-Butyl Alcohol	(4)	3.961	59	195662	206.536
32) Acrylonitrile	(1)	4.131	53	326887	104.065
33) trans-1,2-Dichloroethene	(1)	4.195	96	109605	19.654
34) Methyl Tertiary Butyl Ether	(1)	4.208	73	343697	18.961
35) n-Hexane	(1)	4.629	57	154001	17.689
42) 1,2-Dichloroethene (total)	(1)		96	227111	39.616
36) 1,1-Dichloroethane	(1)	4.829	63	204497	19.888
40) di-Isopropyl Ether	(1)	4.961	45	413222	20.066
41) 2-Chloro-1,3-Butadiene	(1)	4.973	53	182150	19.794
43) Ethyl t-Butyl Ether	(1)	5.507	59	342554M	19.363
44) cis-1,2-Dichloroethene	(1)	5.687	96	117506	19.962
45) 2-Butanone	(1)	5.710	43	697296	160.286
46) 2,2-Dichloropropane	(1)	5.707	77	151929	19.379
47) Propionitrile	(4)	5.784	54	199169	163.902
50) Methacrylonitrile	(1)	6.009	67	502725	153.273
51) Bromochloromethane	(1)	6.031	128	60620	21.185

M = Compound was manually integrated.

* = Compound is an internal standard.

PTL03 0505

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct09b.b/lc09l05.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 19:17 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: 8260W-FR
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 22:36 maz02012

Sample Name: LCSL31 Lab Sample ID: LCSL31

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
52) Tetrahydrofuran	(4)	6.105	71	105695	116.496
53) Chloroform	(1)	6.157	83	190165	20.520
57) 1,1,1-Trichloroethane	(1)	6.420	97	186482	20.615
60) Cyclohexane	(1)	6.510	56	195918	18.331
61) 1,1-Dichloropropene	(1)	6.649	75	150749	19.371
62) Carbon Tetrachloride	(1)	6.649	117	137686	19.424
63) Isobutyl Alcohol	(4)	6.832	41	191464	547.025
67) Benzene	(1)	6.928	78	460605	20.138
68) 1,2-Dichloroethane	(1)	6.941	62	168136	21.003
71) t-Amyl Methyl Ether	(1)	7.105	73	318037	19.337
72) *Fluorobenzene	(1)	7.308	96	1041976	50.000
74) n-Heptane	(1)	7.324	43	162080	18.183
75) n-Butanol	(4)	7.729	56	280159	1022.856
76) Trichloroethene	(1)	7.803	95	122172	21.830
77) Methylcyclohexane	(1)	8.070	83	187583	20.295
79) 1,2-Dichloropropane	(1)	8.089	63	123826	20.016
80) Dibromomethane	(1)	8.234	93	75356	20.403
81) Methyl Methacrylate	(1)	8.266	69	99876	19.001
82) 1,4-Dioxane	(4)	8.272	88	43551	521.562
84) Bromodichloromethane	(1)	8.449	83	133544	19.761
85) 2-Nitropropane	(1)	8.745	41	35489	20.029
86) 2-Chloroethyl Vinyl Ether	(1)	8.858	63	91793	20.302
87) cis-1,3-Dichloropropene	(1)	9.038	75	178307	19.767
89) 4-Methyl-2-Pentanone	(1)	9.240	43	921325	103.543
93) Toluene	(2)	9.456	92	278050	20.056
94) trans-1,3-Dichloropropene	(2)	9.706	75	170969	19.522
95) Ethyl Methacrylate	(2)	9.825	69	175008	19.817
96) 1,1,2-Trichloroethane	(2)	9.903	97	106070	20.554
97) Tetrachloroethene	(2)	10.063	166	151656	24.736
98) 1,3-Dichloropropane	(2)	10.079	76	188495	19.809
100) 2-Hexanone	(2)	10.176	43	694942	102.350
102) Dibromochloromethane	(2)	10.314	129	111072	19.233
103) 1,2-Dibromoethane	(2)	10.427	107	113980	19.672
104) *Chlorobenzene-d5	(2)	10.874	117	779164	50.000

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct09b.b/lc09105.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 19:17 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: 8260W-FR
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 22:36 maz02012

Sample Name: LCSL31 Lab Sample ID: LCSL31

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
105) Chlorobenzene	(2)	10.899	112	325565	20.672
107) 1,1,1,2-Tetrachloroethane	(2)	10.976	131	105286	19.629
108) Ethylbenzene	(2)	11.002	91	540519	20.158
109) m+p-Xylene	(2)	11.108	106	428978	40.883
110) Xylene (Total)	(2)		106	637956	62.122
111) o-Xylene	(2)	11.452	106	208978	21.239
112) Styrene	(2)	11.462	104	339519	21.047
113) Bromoform	(2)	11.616	173	82313	19.516
115) Isopropylbenzene	(2)	11.761	105	508281	19.818
117) Cyclohexanone	(4)	11.832	55	167378	554.276
120) 1,1,2,2-Tetrachloroethane	(3)	11.989	83	157146M	18.574
122) Bromobenzene	(3)	12.005	156	143421	20.737
123) 1,2,3-Trichloropropane	(3)	12.025	110	50596	20.420
124) trans-1,4-Dichloro-2-Butene	(3)	12.031	53	275715M	97.488
125) n-Propylbenzene	(3)	12.086	120	151742	19.839
126) 2-Chlorotoluene	(3)	12.156	126	129711	19.822
127) 1,3,5-Trimethylbenzene	(3)	12.221	120	221849	20.067
128) 4-Chlorotoluene	(3)	12.240	126	137550	20.199
130) tert-Butylbenzene	(3)	12.472	134	97909	19.606
131) Pentachloroethane	(3)	12.488	167	67452	15.893
132) 1,2,4-Trimethylbenzene	(3)	12.504	105	467295	20.342
134) sec-Butylbenzene	(3)	12.636	134	115107	19.953
135) 1,3-Dichlorobenzene	(3)	12.722	146	267484	20.866
136) p-Isopropyltoluene	(3)	12.735	134	133325	20.554
137) *1,4-Dichlorobenzene-d4	(3)	12.767	152	450618	50.000
138) 1,4-Dichlorobenzene	(3)	12.787	146	280677	20.678
139) 1,2,3-Trimethylbenzene	(3)	12.819	120	217611	21.223
140) Benzyl Chloride	(3)	12.877	91	321699	19.196
141) 1,3-Diethylbenzene	(3)	12.951	119	297512	20.969
142) 1,4-Diethylbenzene	(3)	13.009	119	301853	21.537
143) n-Butylbenzene	(3)	13.031	92	236733	20.145
144) 1,2-Dichlorobenzene	(3)	13.057	146	260341	20.731
145) 1,2-Diethylbenzene	(3)	13.099	119	245998	21.088
146) 1,2-Dibromo-3-Chloropropane	(3)	13.594	75	34346	18.795

M = Compound was manually integrated.

* = Compound is an internal standard.

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct09b.b/lc09105.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 19:17 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: 8260W-FR
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 22:36 maz02012

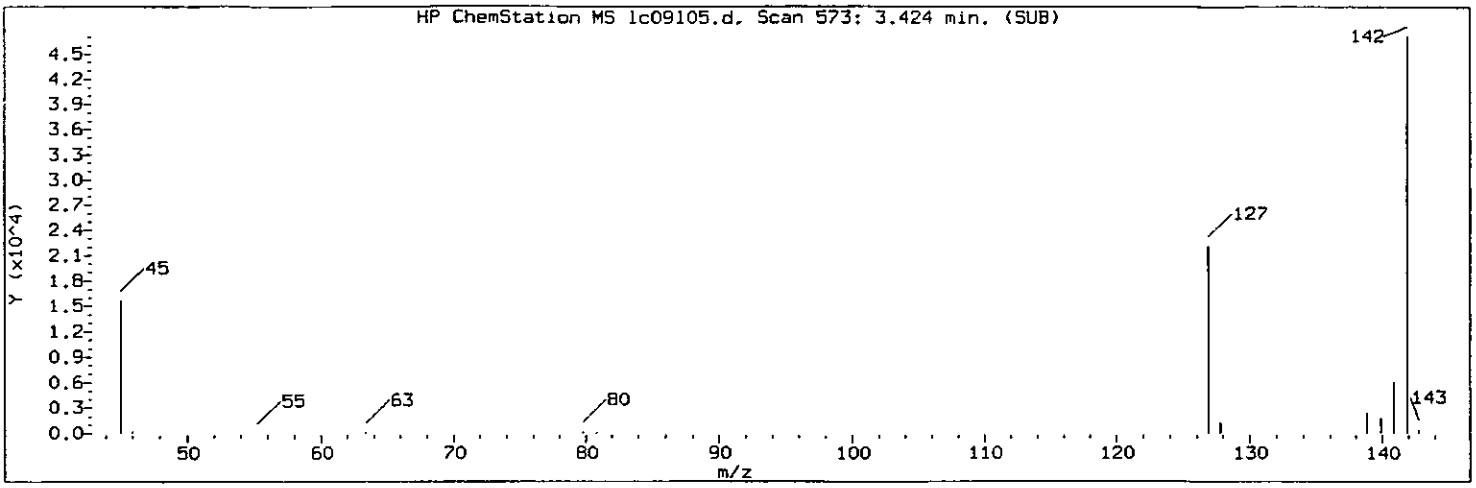
Sample Name: LCSL31 Lab Sample ID: LCSL31

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
147) 1,2,4-Trichlorobenzene	(3)	14.150	180	189405	19.728
148) Hexachlorobutadiene	(3)	14.256	225	88369	17.031
149) Naphthalene	(3)	14.320	128	561288	19.368
150) 1,2,3-Trichlorobenzene	(3)	14.475	180	187625	19.643
152) 2-Methylnaphthalene	(3)	15.053	142	266434	16.242
54)$Dibromofluoromethane	(1)	6.375	113	255340	47.873
64)$1,2-Dichloroethane-d4	(1)	6.845	102	60145M	46.696
91)$Toluene-d8	(2)	9.375	98	1052683	48.468
119)$4-Bromofluorobenzene	(2)	11.880	95	379302	49.230

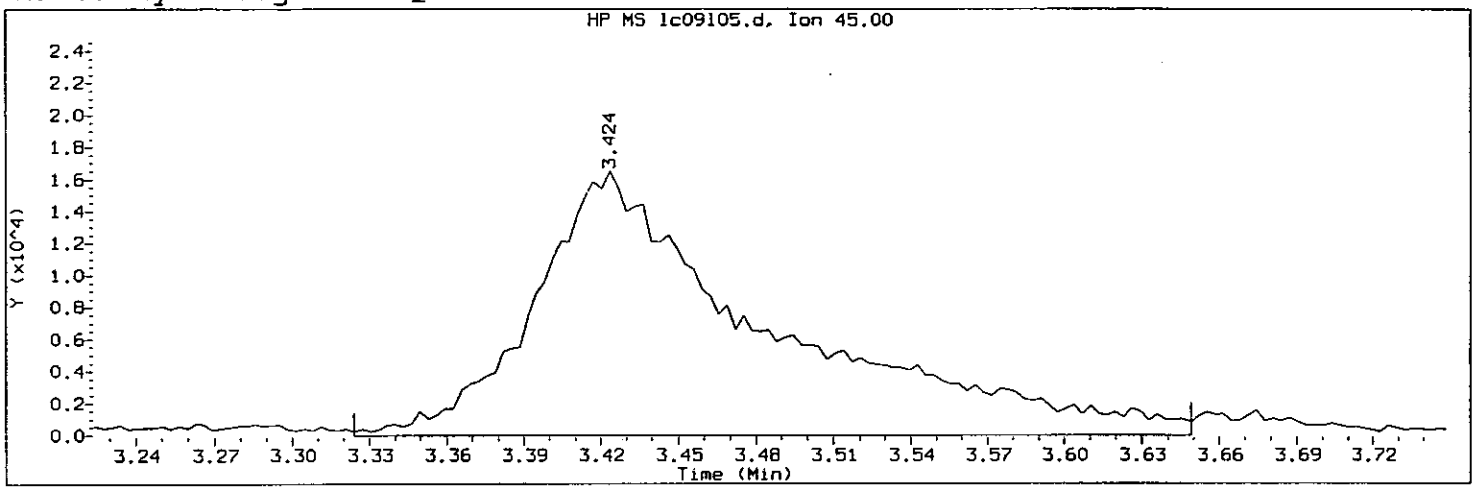
M = Compound was manually integrated.

$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct09b.b/lc09105.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 19:17 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: 8260W-FR
Calibration date and time: 12-OCT-2009 22:35
Date, time and analyst ID of latest file update: 12-Oct-2009 22:36 maz02012

Sample Name: LCSL31 Lab Sample ID: LCSL31

Compound Number : 22
Compound Name : 2-Propanol
Scan Number : 573
Retention Time (minutes): 3.424
Quant Ion : 45
Area (flag) : 103328 M
Concentration (ug/L) : 157.4527
Integration start scan : 541 Integration stop scan: 642
Y at integration start : 0 Y at integration end: 0

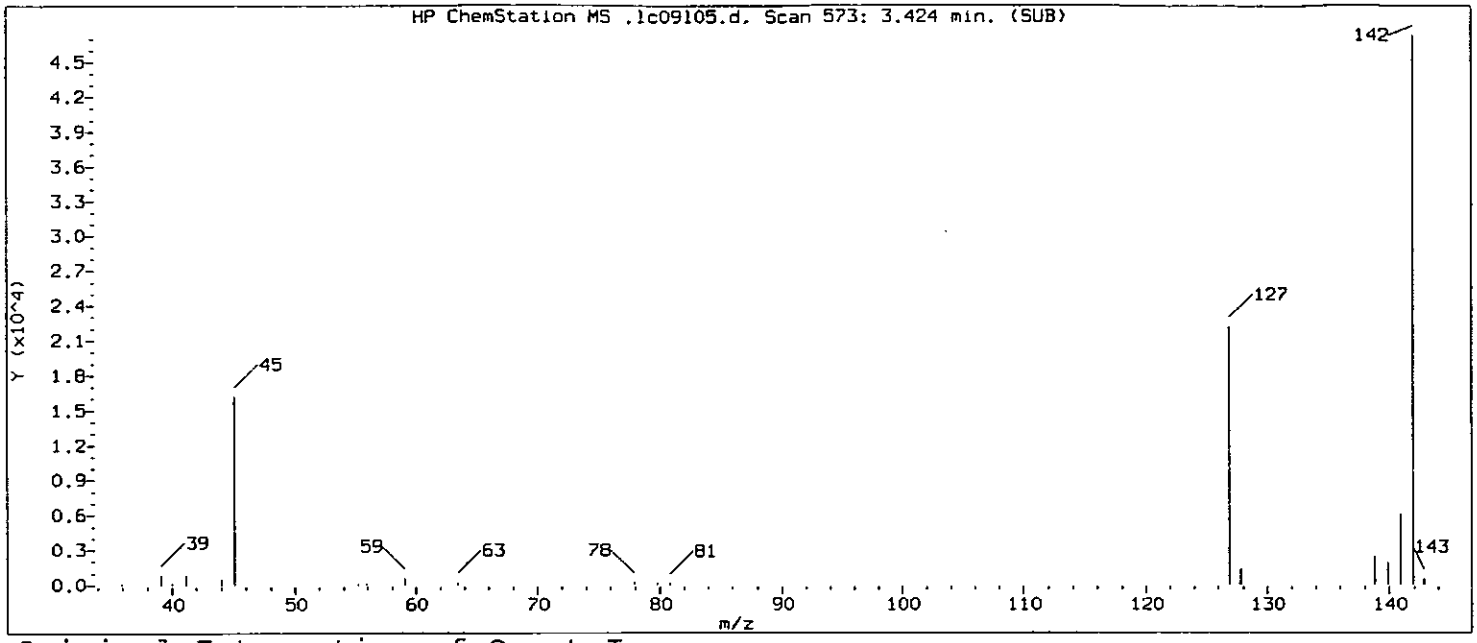
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: CBE1907 10/14/09

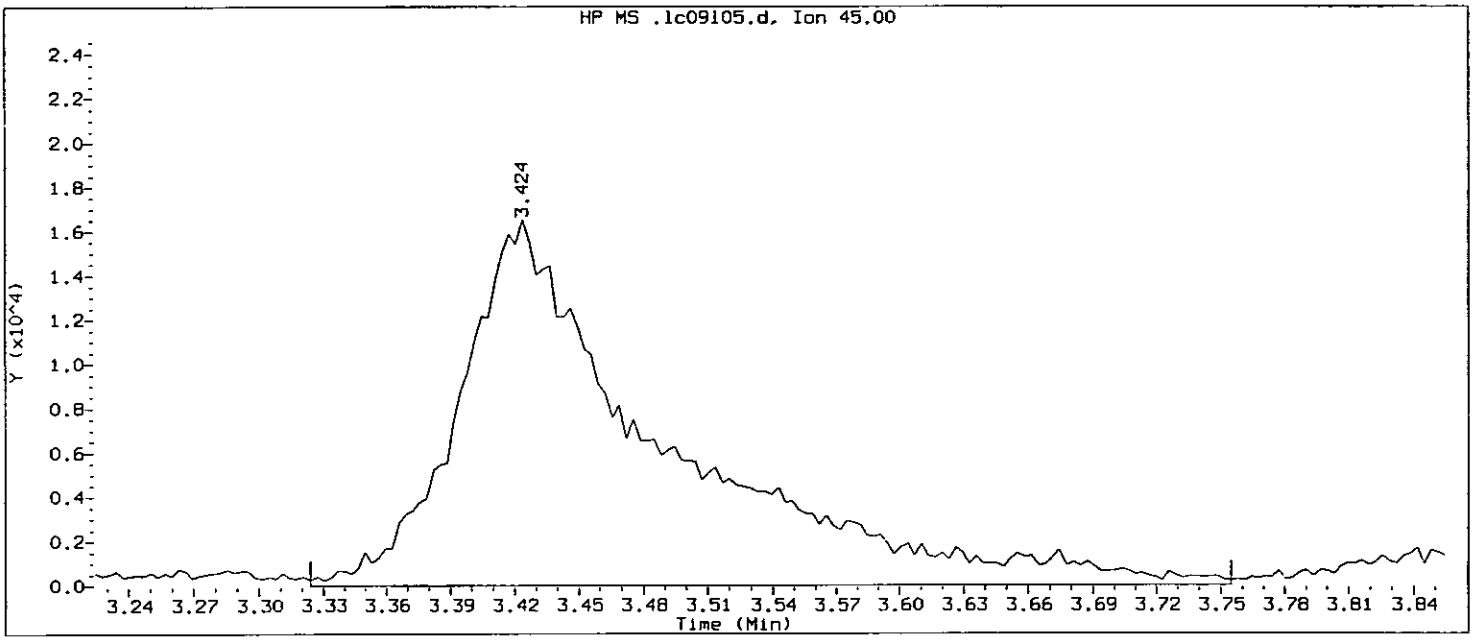
PTL03 0503

GC/MS audit/management approval: 10/14/09

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct09b.b/lc09105.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 19:17 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: 8260W-FR
Calibration date and time: 09-OCT-2009 19:16
Date, time and analyst ID of latest file update: 09-Oct-2009 19:35 Automation

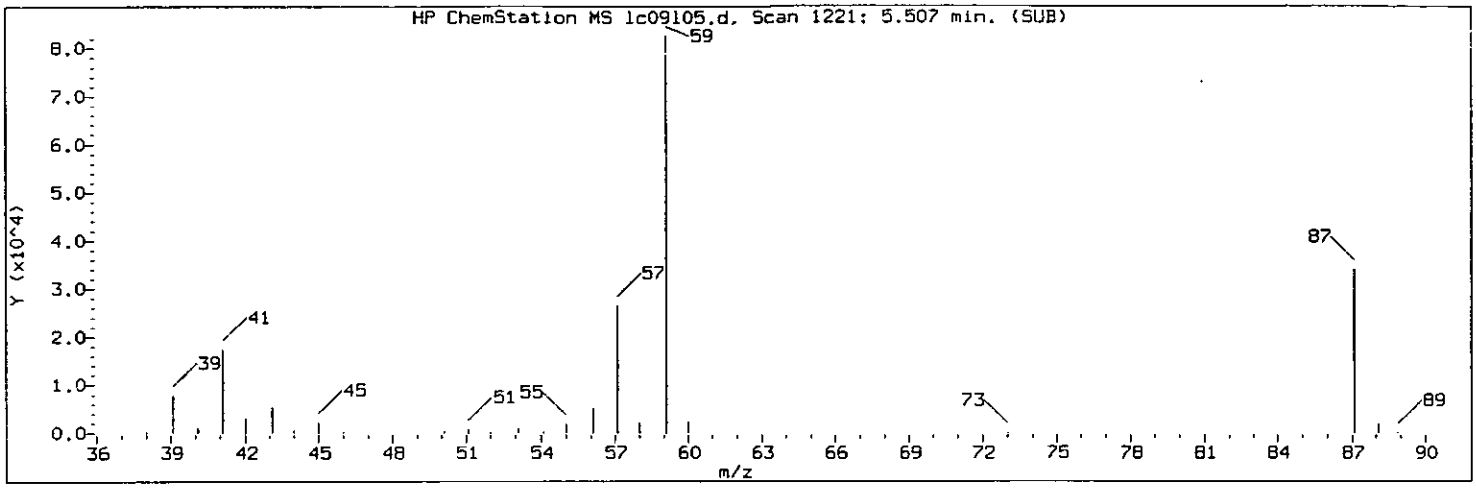
Sample Name: LCSL31 Lab Sample ID: LCSL31

Compound Number : 22
Compound Name : 2-Propanol
Scan Number : 573
Retention Time (minutes): 3.424
Quant Ion : 45
Area : 107953
Concentration (ug/L) : 163.2086
Integration start scan : 541 Integration stop scan: 675
Y at integration start : 0 Y at integration end: 0

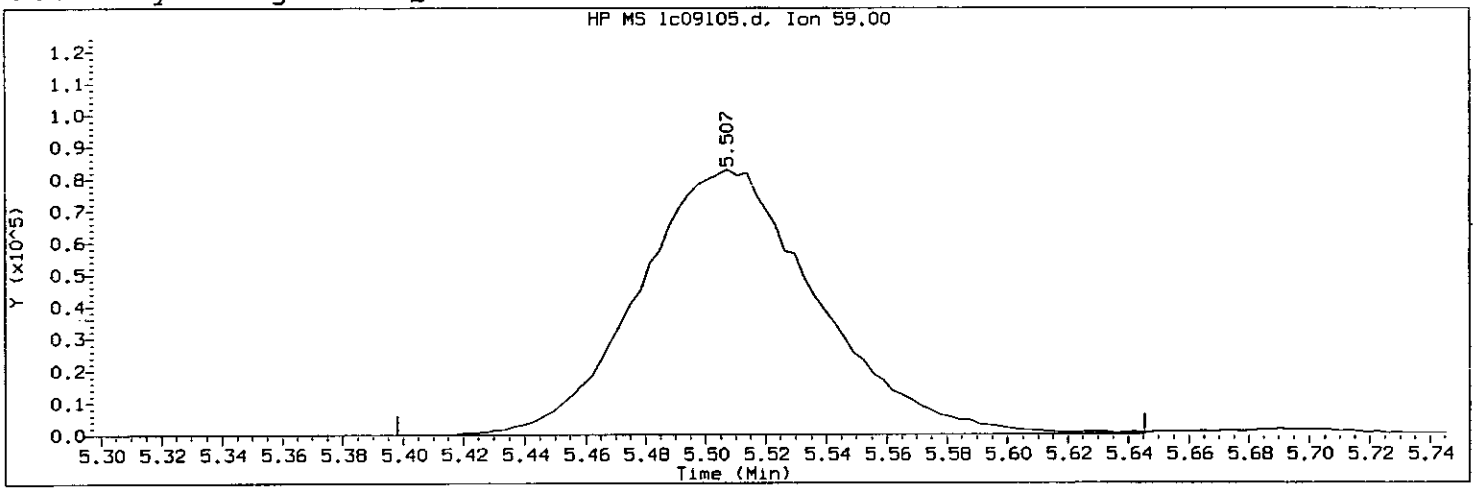
PTL03 0510

Original Integration Report for data file /chem/HP09915.i/09oct09b.b/lc09105.d, generated on 10/12/2009 at 22:36

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct09b.b/lc09105.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 19:17 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: 8260W-FR
Calibration date and time: 12-OCT-2009 22:35
Date, time and analyst ID of latest file update: 12-Oct-2009 22:36 maz02012

Sample Name: LCSL31 Lab Sample ID: LCSL31

Compound Number	:	43
Compound Name	:	Ethyl t-Butyl Ether
Scan Number	:	1221
Retention Time (minutes)	:	5.507
Quant Ion	:	59
Area (flag)	:	342554 M
Concentration (ug/L)	:	19.3626
Integration start scan	:	1186 Integration stop scan: 1263
Y at integration start	:	0 Y at integration end: 0

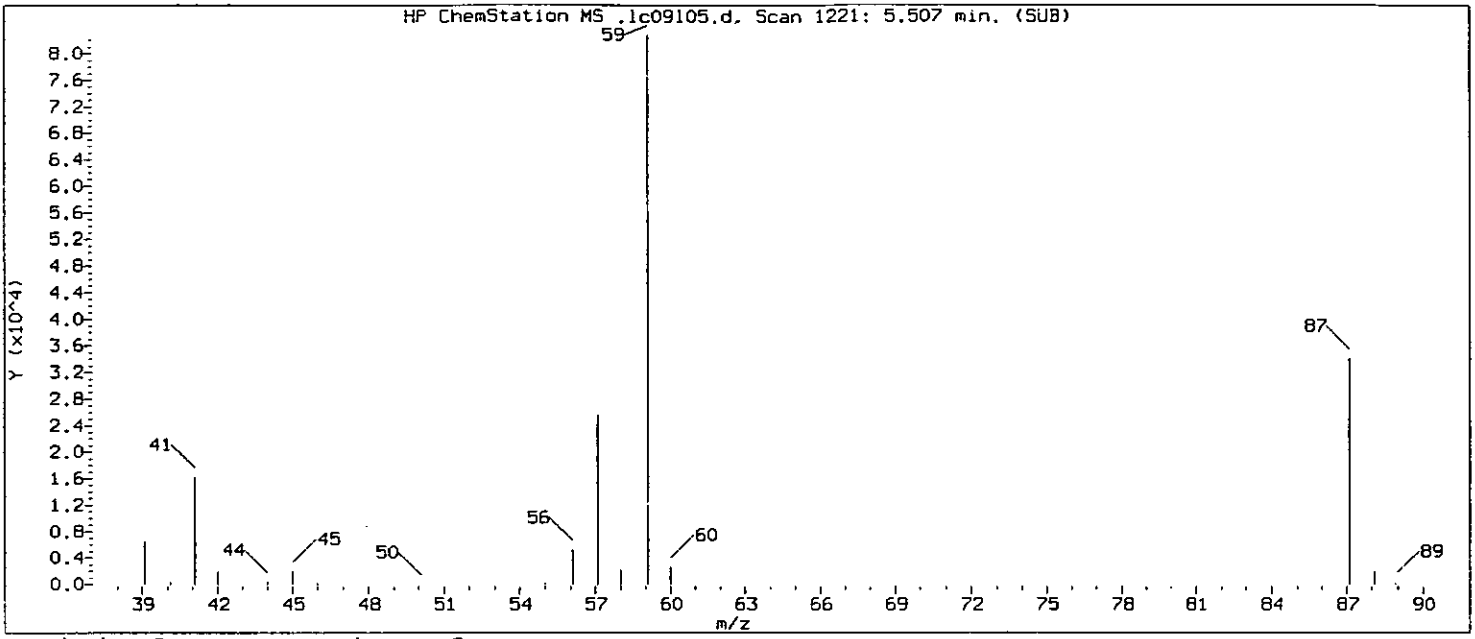
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: OBE9U7 10/14/09

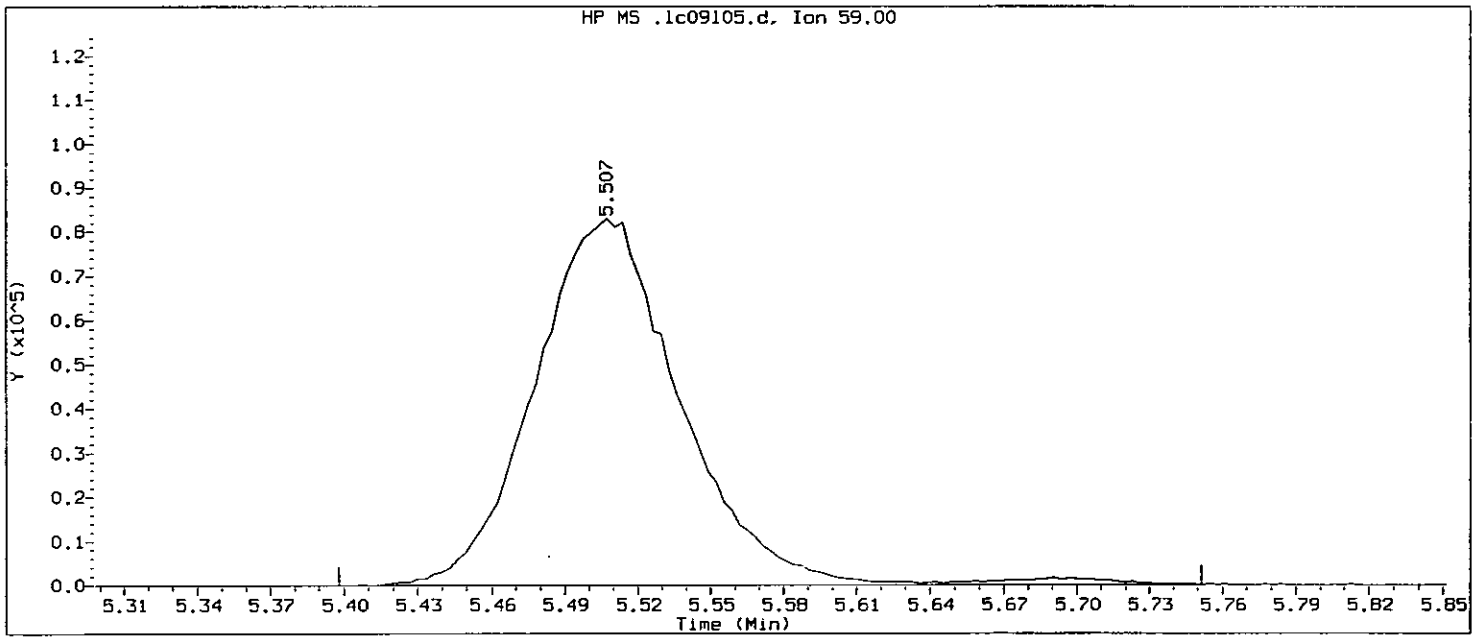
PTL83 9511

GC/MS audit/management approval: 10/14/09

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



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Injection date and time: 09-OCT-2009 19:17 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: 8260W-FR
Calibration date and time: 09-OCT-2009 19:16
Date, time and analyst ID of latest file update: 09-Oct-2009 19:35 Automation

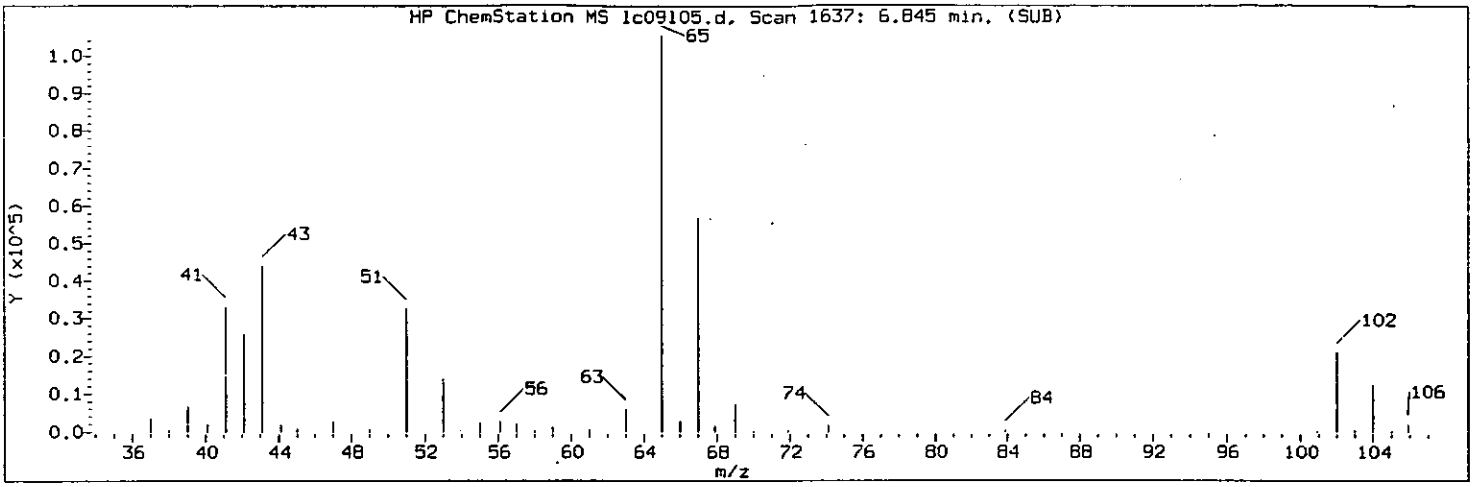
Sample Name: LCSL31 Lab Sample ID: LCSL31

Compound Number : 43
Compound Name : Ethyl t-Butyl Ether
Scan Number : 1221
Retention Time (minutes): 5.507
Quant Ion : 59
Area : 348176
Concentration (ug/L) : 19.6804
Integration start scan : 1186 Integration stop scan: 1296
Y at integration start : 0 Y at integration end: 0

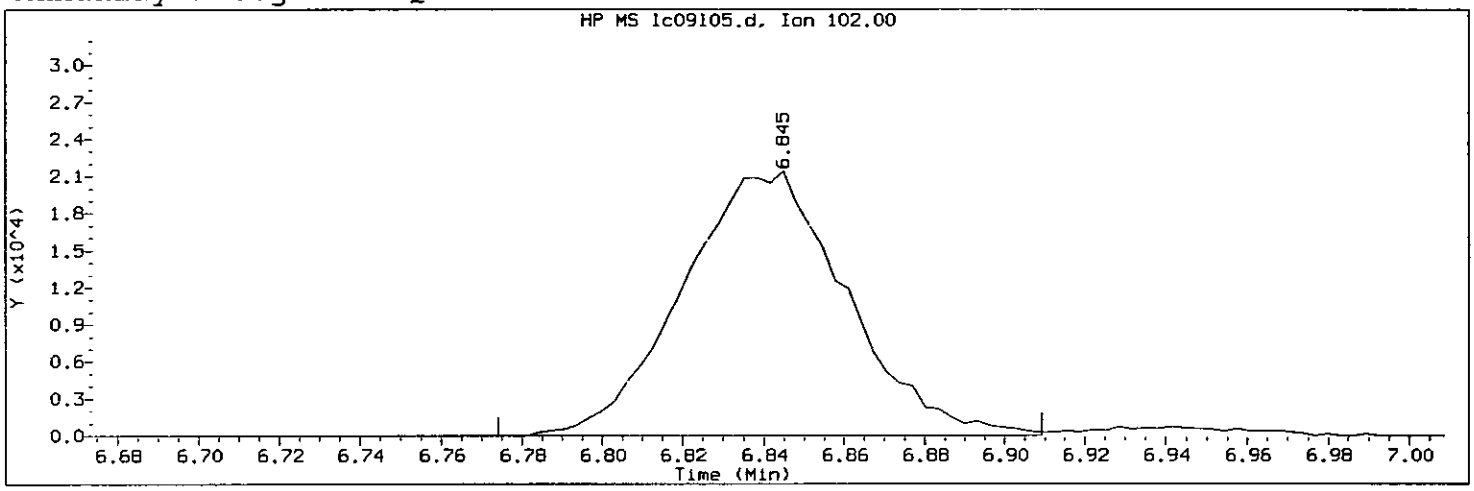
PTL03 0512

Original Integration Report for data file /chem/HP09915.i/09oct09b.b/lc09105.d, generated on 10/12/2009 at 22:36

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct09b.b/lc09105.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 19:17 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: 8260W-FR
Calibration date and time: 12-OCT-2009 22:35
Date, time and analyst ID of latest file update: 12-Oct-2009 22:36 maz02012

Sample Name: LCSL31 Lab Sample ID: LCSL31

Compound Number : 64
Compound Name : 1,2-Dichloroethane-d4
Scan Number : 1637
Retention Time (minutes): 6.845
Quant Ion : 102
Area (flag) : 60145 M
Concentration (ug/L) : 46.6965
Integration start scan : 1614 Integration stop scan: 1656
Y at integration start : 0 Y at integration end: 0

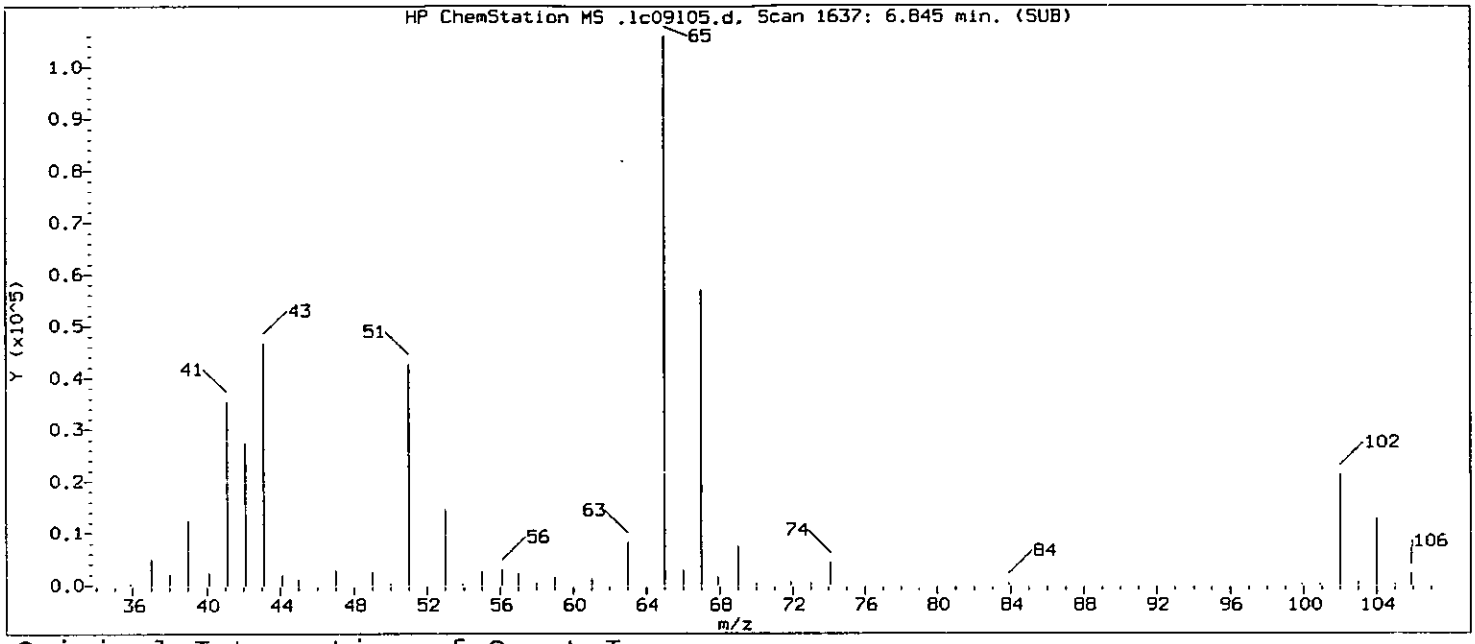
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: CBE1917 10/14/09

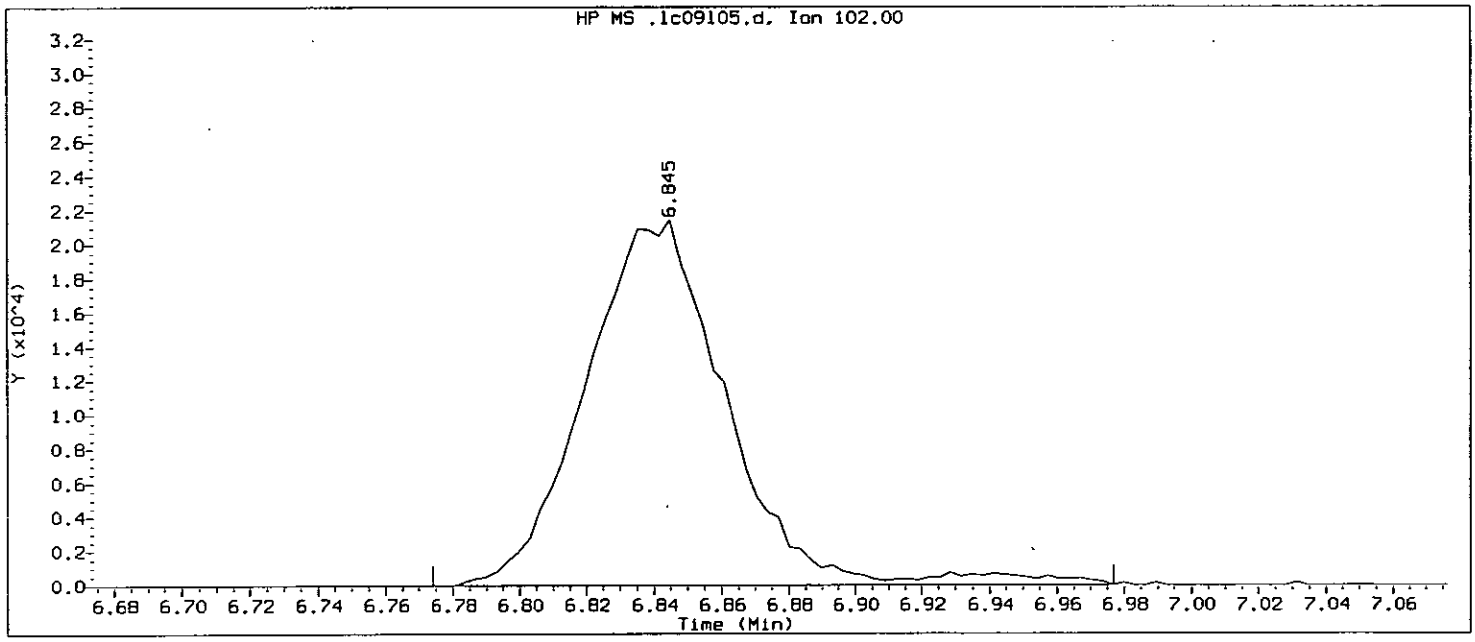
PTL03 0513

GC/MS audit/management approval: [illegible] 10/14/09

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct09b.b/lc09105.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 19:17 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: 8260W-FR
Calibration date and time: 09-OCT-2009 19:16
Date, time and analyst ID of latest file update: 09-Oct-2009 19:35 Automation

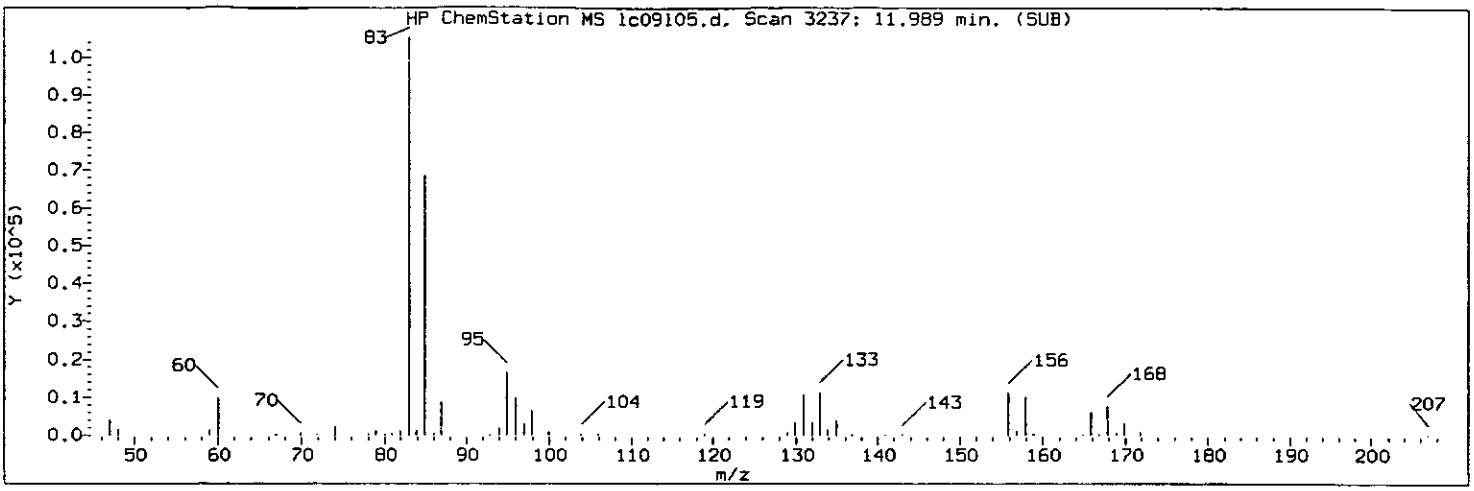
Sample Name: LCSL31 Lab Sample ID: LCSL31

Compound Number : 64
Compound Name : 1,2-Dichloroethane-d4
Scan Number : 1637
Retention Time (minutes): 6.845
Quant Ion : 102
Area : 61937
Concentration (ug/L) : 48.0885
Integration start scan : 1614 Integration stop scan: 1677
Y at integration start : 0 Y at integration end: 0

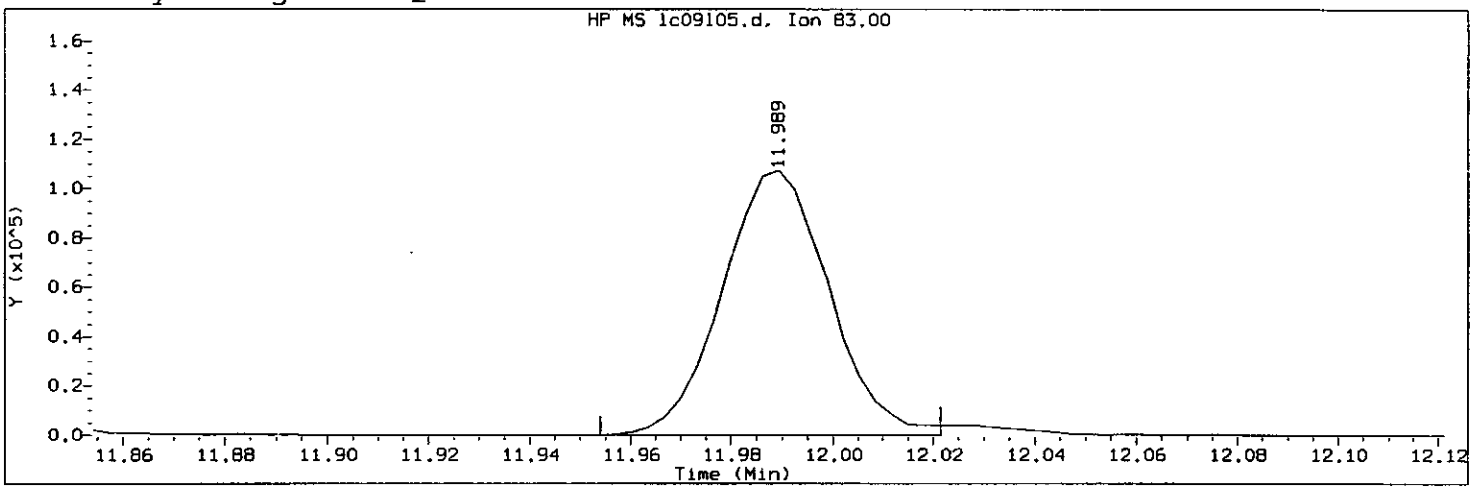
PTL83 0514

Original Integration Report for data file /chem/HP09915.i/09oct09b.b/lc09105.d, generated on 10/12/2009 at 22:36

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct09b.b/lc09l05.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 19:17 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: 8260W-FR
Calibration date and time: 12-OCT-2009 22:35
Date, time and analyst ID of latest file update: 12-Oct-2009 22:36 maz02012

Sample Name: LCSL31 Lab Sample ID: LCSL31

Compound Number : 120
Compound Name : 1,1,2,2-Tetrachloroethane
Scan Number : 3237
Retention Time (minutes): 11.989
Quant Ion : 83
Area (flag) : 157146 M
Concentration (ug/L) : 18.5737
Integration start scan : 3225 Integration stop scan: 3246
Y at integration start : 0 Y at integration end: 0

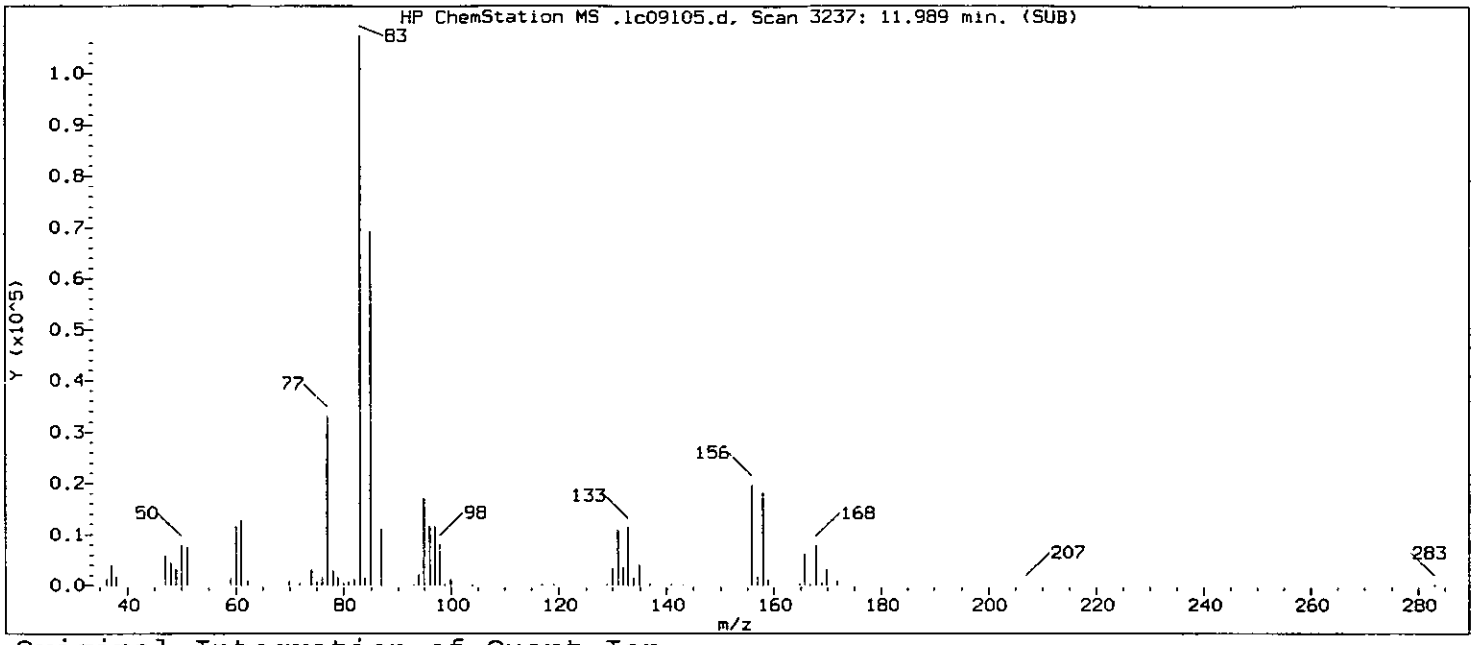
Reason for manual integration (circle one): missed peak improper integration

Analyst responsible for change: CBE1947 10/14/09

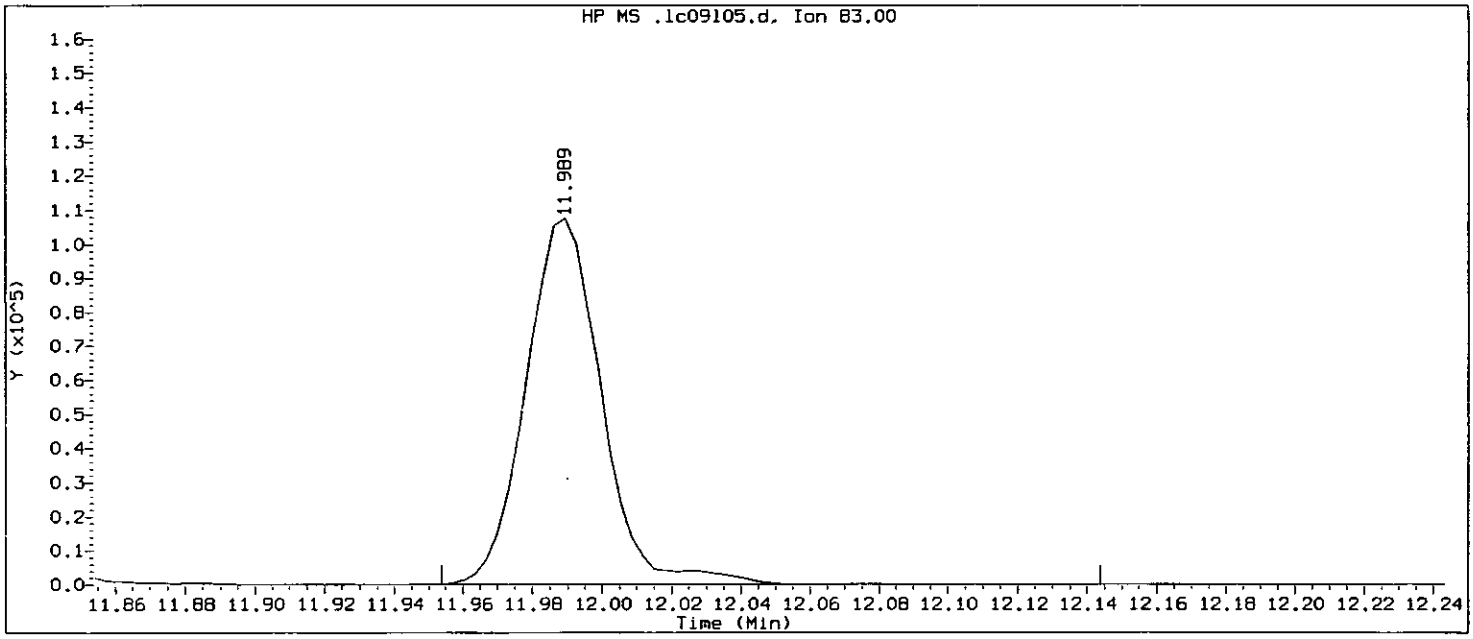
PTL03 8515

GC/MS audit/management approval: 10/14/09

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct09b.b/lc09105.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 19:17 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: 8260W-FR
Calibration date and time: 09-OCT-2009 19:16
Date, time and analyst ID of latest file update: 09-Oct-2009 19:35 Automation

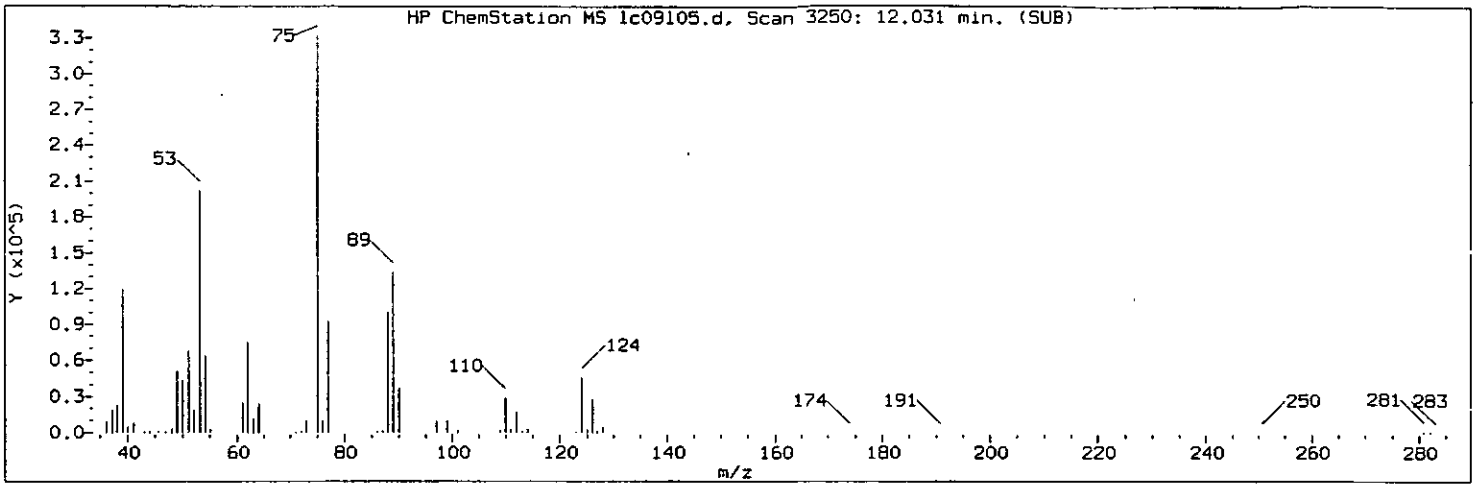
Sample Name: LCSL31 Lab Sample ID: LCSL31

Compound Number : 120
Compound Name : 1,1,2,2-Tetrachloroethane
Scan Number : 3237
Retention Time (minutes): 11.989
Quant Ion : 83
Area : 161335
Concentration (ug/L) : 19.0689
Integration start scan : 3225 Integration stop scan: 3284
Y at integration start : 0 Y at integration end: 0

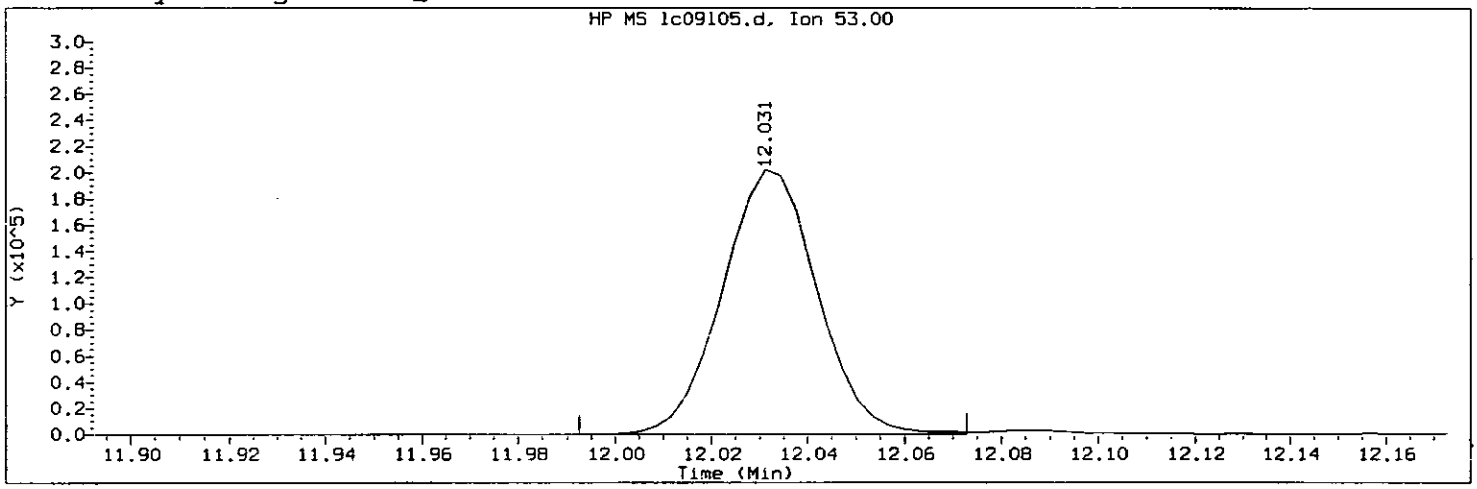
PTL03 0516

Original Integration Report for data file /chem/HP09915.i/09oct09b.b/lc09105.d, generated on 10/12/2009 at 22:36

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct09b.b/lc09105.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 19:17 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: 8260W-FR
Calibration date and time: 12-OCT-2009 22:35
Date, time and analyst ID of latest file update: 12-Oct-2009 22:36 maz02012

Sample Name: LCSL31 Lab Sample ID: LCSL31

Compound Number	: 124
Compound Name	: trans-1,4-Dichloro-2-Butene
Scan Number	: 3250
Retention Time (minutes)	: 12.031
Quant Ion	: 53
Area (flag)	: 275715 M
Concentration (ug/L)	: 97.4881
Integration start scan	: 3237 Integration stop scan: 3262
Y at integration start	: 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

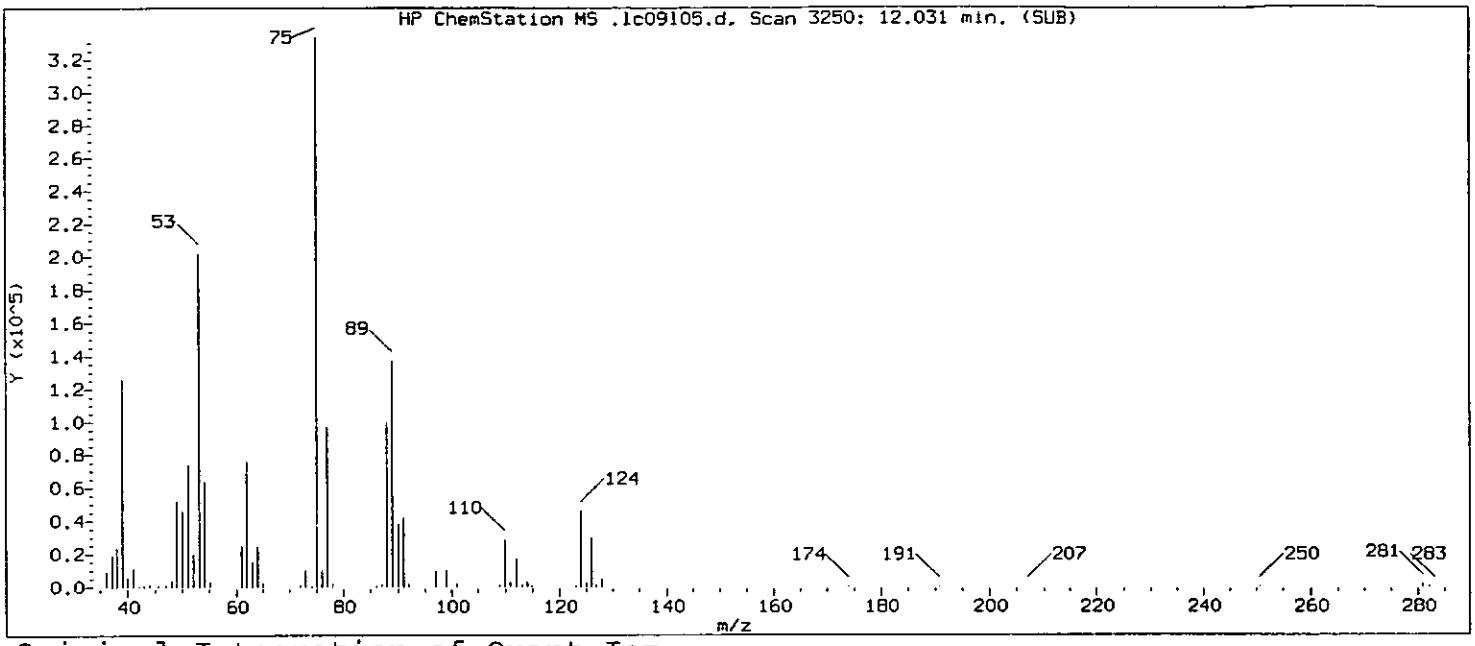
Analyst responsible for change: 08E9417 10/14/09

PTL83 0517

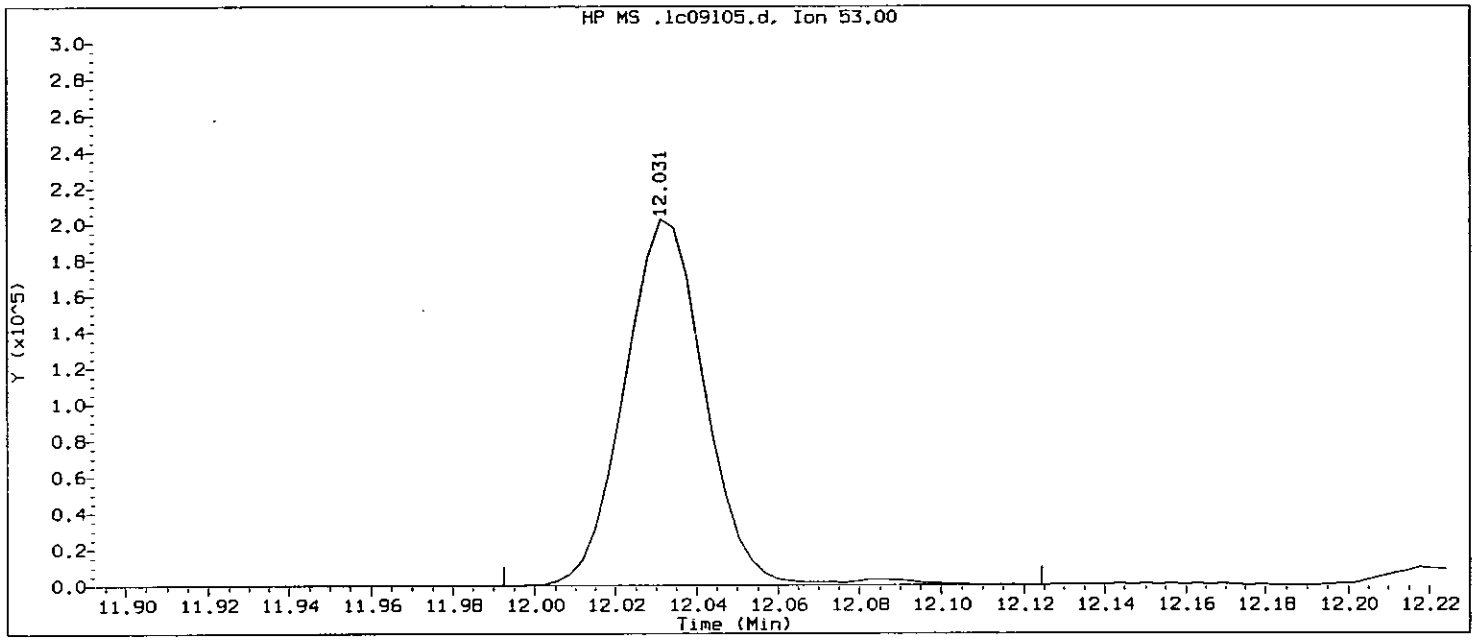
GC/MS audit/management approval: 10/14/09

Manual Integration Report for data file /chem/HP09915.i/09oct09b.b/lc09105.d, generated on 10/12/2009 at 22:36

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct09b.b/lc09105.d Instrument ID: HP09915.i
Injection date and time: 09-OCT-2009 19:17 Analyst ID: KDP02245

Method used: /chem/HP09915.i/09oct09b.b/L8260W.m Sublist used: 8260W-FR
Calibration date and time: 09-OCT-2009 19:16
Date, time and analyst ID of latest file update: 09-Oct-2009 19:35 Automation

Sample Name: LCSL31 Lab Sample ID: LCSL31

Compound Number : 124
Compound Name : trans-1,4-Dichloro-2-Butene
Scan Number : 3250
Retention Time (minutes): 12.031
Quant Ion : 53
Area : 279767
Concentration (ug/L) : 98.9210
Integration start scan : 3237 Integration stop scan: 3278
Y at integration start : 0 Y at integration end: 0

PTL03 0518

Original Integration Report for data file /chem/HP09915.i/09oct09b.b/lc09105.d, generated on 10/12/2009 at 22:36

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LCSL33

File: /chem/HP09915.i/09oct12a.b/lc12l01.d
Sample: LCSL33;LCSL33;1;3;LCS
Injected At:12-OCT-2009 19:01
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc12b01.d
Sublist: 8260W-FRV6

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092851AA
Analyst:MAZ02012
Instrument ID:HP09915.i
Standard Reference: lc12c01.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.845(-0.003)	704	65	220569(-11)	250.00	
72) Fluorobenzene	7.305(-0.003)	1780	96	1188952(-4)	50.00	
104) Chlorobenzene-d5	10.874(0.000)	2890	117	864923(-5)	50.00	
137) 1,4-Dichlorobenzene-d4	12.768(0.000)	3479	152	499934(-5)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.379(-0.001)	113	288035	47.327	95%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.845(-0.001)	102	69383	47.210	94%		77 - 113
91) Toluene-d8	(2)	9.379(0.000)	98	1190779	49.390	99%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.880(0.000)	95	422257	49.371	99%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
2) Dichlorodifluoromethane	(1)	1.784(0.000)	85	195390	19.746	19.75			2.00	5.00
3) Chloromethane	(1)	1.903(0.002)	50	203438	23.811	23.81			1.00	5.00
4) Vinyl Chloride	(1)	2.032(0.002)	62	166908	21.429	21.43			1.00	5.00
8) Bromomethane	(1)	2.331(0.001)	94	64690	13.761	13.76			1.00	5.00
9) Chloroethane	(1)	2.427(0.001)	64	64416	14.783	14.78			1.00	5.00
11) Trichlorofluoromethane	(1)	2.688(0.005)	101	222634	21.384	21.38			2.00	5.00
15) Ethyl Ether	(1)	2.964(-0.001)	59	103642	27.460	27.46			2.00	5.00
18) Acrolein	(4)	3.096(0.000)	56	249137	217.863	217.86			40.00	100.00
19) 1,1-Dichloroethene	(1)	3.234(-0.001)	96	107868	20.920	20.92			0.80	5.00
20) Freon 113	(1)	3.260(0.000)	101	120599	19.977	19.98			2.00	10.00
21) Acetone	(1)	3.270(-0.001)	43	712615	260.819	260.82			6.00	20.00
22) 2-Propanol	(4)	3.417(0.000)	45	108182	150.868	150.87			50.00	100.00
23) Methyl Iodide	(1)	3.411(0.000)	142	199701	17.979	17.98			1.00	5.00
24) Carbon Disulfide	(1)	3.504(0.000)	76	392377	18.217	18.22			1.00	5.00
29) Methylene Chloride	(1)	3.810(-0.001)	84	130070	18.521	18.52			2.00	5.00
31) t-Butyl Alcohol	(4)	3.954(-0.002)	59	209363	202.255	202.25			10.00	80.00
32) Acrylonitrile	(1)	4.128(-0.001)	53	368938	102.933	102.93			4.00	20.00
33) trans-1,2-Dichloroethene	(1)	4.192(-0.001)	96	126461	19.873	19.87			0.80	5.00
34) Methyl Tertiary Butyl Ether	(1)	4.208(-0.001)	73	394962	19.096	19.10			0.50	5.00
35) n-Hexane	(1)	4.623(-0.001)	57	184424	18.564	18.56			2.00	5.00
42) 1,2-Dichloroethene (total)	(1)		96	258004	39.458	39.46			0.80	5.00
36) 1,1-Dichloroethane	(1)	4.829(-0.001)	63	234568	19.992	19.99			1.00	5.00
40) di-Isopropyl Ether	(1)	4.958(-0.001)	45	473594	20.155	20.16			0.80	5.00
41) 2-Chloro-1,3-Butadiene	(1)	4.974(-0.001)	53	213628	20.345	20.35			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 0519

File: /chem/HP09915.i/09oct12a.b/lc12l01.d
Sample: LCSL33;LCSL33;1;3;LCS
Injected At:12-OCT-2009 19:01
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc12b01.d
Sublist: 8260W-FRV6

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092851AA
Analyst:MAZ02012
Instrument ID:HP09915.i
Standard Reference: lc12c01.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
43) Ethyl t-Butyl Ether	(1)	5.504	(0.000)	59	401705	19.899	19.90			0.80	5.00
44) cis-1,2-Dichloroethene	(1)	5.691	(-0.001)	96	131543	19.584	19.58			0.80	5.00
45) 2-Butanone	(1)	5.704	(-0.001)	43	911278	183.579	183.58			3.00	10.00
46) 2,2-Dichloropropane	(1)	5.707	(-0.001)	77	175898	19.663	19.66			1.00	5.00
47) Propionitrile	(4)	5.784	(-0.001)	54	219476	165.295	165.29			30.00	100.00
50) Methacrylonitrile	(1)	6.009	(-0.001)	67	556779	148.768	148.77			10.00	50.00
52) Tetrahydrofuran	(4)	6.109	(-0.004)	71	116413	117.427	117.43			4.00	10.00
53) Chloroform	(1)	6.154	(-0.001)	83	213907	20.229	20.23			0.80	5.00
57) 1,1,1-Trichloroethane	(1)	6.421	(0.000)	97	210715	20.414	20.41			0.80	5.00
60) Cyclohexane	(1)	6.511	(0.000)	56	238125	19.526	19.53			2.00	5.00
61) 1,1-Dichloropropene	(1)	6.646	(0.000)	75	175546	19.769	19.77			1.00	5.00
62) Carbon Tetrachloride	(1)	6.649	(0.000)	117	159785	19.755	19.75			1.00	5.00
63) Isobutyl Alcohol	(4)	6.826	(-0.002)	41	196524	513.861	513.86			100.00	250.00
67) Benzene	(1)	6.925	(0.000)	78	523001	20.039	20.04			0.50	5.00
68) 1,2-Dichloroethane	(1)	6.941	(0.000)	62	183243	20.060	20.06			1.00	5.00
71) t-Amyl Methyl Ether	(1)	7.109	(-0.001)	73	362519	19.317	19.32			0.80	5.00
74) n-Heptane	(1)	7.327	(-0.001)	43	195618	19.232	19.23			2.00	5.00
75) n-Butanol	(4)	7.726	(0.000)	56	290171	969.559	969.56			100.00	250.00
76) Trichloroethene	(1)	7.800	(0.000)	95	137426	21.520	21.52			1.00	5.00
79) 1,2-Dichloropropane	(1)	8.086	(0.000)	63	136785	19.378	19.38			1.00	5.00
80) Dibromomethane	(1)	8.237	(0.000)	93	82885	19.667	19.67			1.00	5.00
81) Methyl Methacrylate	(1)	8.266	(0.000)	69	110604	18.441	18.44			1.00	5.00
82) 1,4-Dioxane	(4)	8.269	(-0.001)	88	43198	473.458	473.46			70.00	250.00
84) Bromodichloromethane	(1)	8.453	(0.000)	83	151000	19.582	19.58			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL03 8528

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LCSL33

File: /chem/HP09915.i/09oct12a.b/lc12l01.d
Sample: LCSL33;LCSL33;1;3;LCS
Injected At:12-OCT-2009 19:01
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc12b01.d
Sublist: 8260W-FRV6

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092851AA
Analyst:MAZ02012
Instrument ID:HP09915.i
Standard Reference: lc12c01.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
85) 2-Nitropropane	(1)	8.742	(0.000)	41	40269	19.945	19.94			2.00	10.00
86) 2-Chloroethyl Vinyl Ether	(1)	8.861	(0.000)	63	99450	19.277	19.28			2.00	10.00
87) cis-1,3-Dichloropropene	(1)	9.038	(0.000)	75	204557	19.873	19.87			1.00	5.00
89) 4-Methyl-2-Pentanone	(1)	9.244	(0.000)	43	1060819	104.482	104.48			3.00	10.00
93) Toluene	(2)	9.456	(0.000)	92	318752	20.713	20.71			0.70	5.00
94) trans-1,3-Dichloropropene	(2)	9.707	(0.000)	75	191961	19.745	19.75			1.00	5.00
95) Ethyl Methacrylate	(2)	9.826	(0.000)	69	194436	19.834	19.83			1.00	5.00
96) 1,1,2-Trichloroethane	(2)	9.906	(0.000)	97	116861	20.400	20.40			0.80	5.00
97) Tetrachloroethene	(2)	10.067	(0.000)	166	141418	20.779	20.78			0.80	5.00
98) 1,3-Dichloropropane	(2)	10.083	(0.000)	76	210765	19.953	19.95			1.00	5.00
100) 2-Hexanone	(2)	10.176	(0.000)	43	902757	119.774	119.77			3.00	10.00
102) Dibromochloromethane	(2)	10.314	(0.000)	129	124699	19.451	19.45			1.00	5.00
103) 1,2-Dibromoethane	(2)	10.424	(0.000)	107	125586	19.526	19.53			1.00	5.00
105) Chlorobenzene	(2)	10.903	(0.000)	112	359978	20.591	20.59			0.80	5.00
107) 1,1,1,2-Tetrachloroethane	(2)	10.977	(0.000)	131	117757	19.777	19.78			1.00	5.00
108) Ethylbenzene	(2)	11.006	(0.000)	91	612439	20.576	20.58			0.80	5.00
109) m+p-Xylene	(2)	11.108	(0.000)	106	480651	41.266	41.27			0.80	5.00
110) Xylene (Total)	(2)			106	713167	62.554	62.55			0.80	5.00
111) o-Xylene	(2)	11.452	(0.000)	106	232516	21.289	21.29			0.80	5.00
112) Styrene	(2)	11.462	(0.000)	104	374031	20.887	20.89			1.00	5.00
113) Bromoform	(2)	11.613	(0.000)	173	91343	19.510	19.51			1.00	5.00
115) Isopropylbenzene	(2)	11.761	(0.000)	105	579389	20.351	20.35			1.00	5.00
117) Cyclohexanone	(4)	11.832	(0.002)	55	163747	496.262	496.26			55.00	250.00
120) 1,1,2,2-Tetrachloroethane	(3)	11.989	(0.000)	83	176680	18.823	18.82			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

PTL83 8521

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LCSL33

File: /chem/HP09915.i/09oct12a.b/lc12l01.d
Sample: LCSL33;LCSL33;1;3;LCS
Injected At:12-OCT-2009 19:01
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc12b01.d
Sublist: 8260W-FRV6

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092851AA
Analyst:MAZ02012
Instrument ID:HP09915.i
Standard Reference: lc12c01.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
122) Bromobenzene	(3)	12.005	(0.000)	156	157581	20.537	20.54			1.00	5.00
123) 1,2,3-Trichloropropane	(3)	12.022	(0.000)	110	55921	20.343	20.34			1.00	5.00
124) trans-1,4-Dichloro-2-Butene	(3)	12.031	(0.000)	53	327648	104.423	104.42			15.00	50.00
125) n-Propylbenzene	(3)	12.086	(0.000)	120	173539	20.450	20.45			1.00	5.00
126) 2-Chlorotoluene	(3)	12.160	(0.000)	126	148132	20.404	20.40			1.00	5.00
127) 1,3,5-Trimethylbenzene	(3)	12.218	(0.000)	120	251242	20.484	20.48			1.00	5.00
128) 4-Chlorotoluene	(3)	12.240	(0.000)	126	153655	20.339	20.34			1.00	5.00
130) tert-Butylbenzene	(3)	12.472	(0.000)	134	102580	18.515	18.52			1.00	5.00
132) 1,2,4-Trimethylbenzene	(3)	12.504	(0.000)	105	517692	20.313	20.31			1.00	5.00
134) sec-Butylbenzene	(3)	12.636	(0.000)	134	128677	20.105	20.10			1.00	5.00
135) 1,3-Dichlorobenzene	(3)	12.723	(0.000)	146	293997	20.672	20.67			1.00	5.00
136) p-Isopropyltoluene	(3)	12.735	(0.000)	134	148964	20.700	20.70			1.00	5.00
138) 1,4-Dichlorobenzene	(3)	12.784	(0.000)	146	311422	20.680	20.68			1.00	5.00
140) Benzyl Chloride	(3)	12.877	(0.000)	91	356182	19.157	19.16			1.00	5.00
143) n-Butylbenzene	(3)	13.028	(0.000)	92	257644	19.762	19.76			1.00	5.00
144) 1,2-Dichlorobenzene	(3)	13.057	(0.000)	146	286479	20.562	20.56			1.00	5.00
146) 1,2-Dibromo-3-Chloropropane	(3)	13.591	(0.000)	75	37396	18.446	18.45			2.00	5.00
147) 1,2,4-Trichlorobenzene	(3)	14.153	(0.000)	180	208649	19.589	19.59			1.00	5.00
148) Hexachlorobutadiene	(3)	14.256	(0.000)	225	102906	17.876	17.88			2.00	5.00
149) Naphthalene	(3)	14.321	(0.000)	128	579240	18.016	18.02			1.00	5.00
150) 1,2,3-Trichlorobenzene	(3)	14.475	(0.000)	180	201561	19.021	19.02			1.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

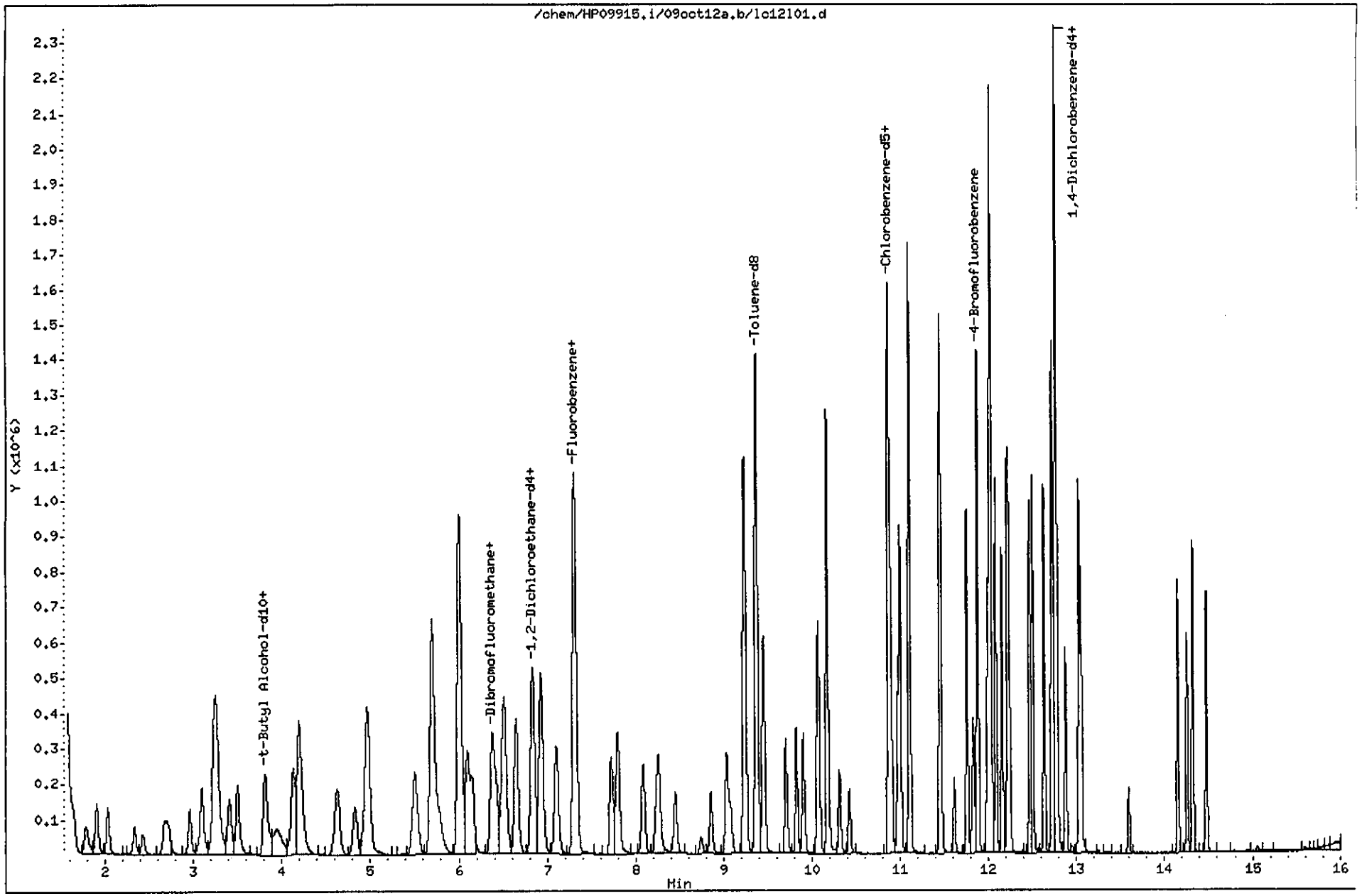
Analyst: MAZ Date: 10/21/09

Auditor: _____ Date: 10/13/09

Data File: /chem/HP09915.i/09oct12a.b/lc12101.d
Date : 12-OCT-2009 19:01
Client ID: LCSL33
Sample Info: LCSL33;LCSL33;1;3;LCS
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i

Operator: MAZ02012
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct12a.b/lc12l01.d Instrument ID: HP09915.i
Injection date and time: 12-OCT-2009 19:01 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct12a.b/L8260W.m Sublist used: 8260W-FRV6
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 19:26 maz02012

Sample Name: LCSL33 Lab Sample ID: LCSL33

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
2) Dichlorodifluoromethane	(1)	1.784	85	195390	19.746
3) Chloromethane	(1)	1.903	50	203438	23.811
4) Vinyl Chloride	(1)	2.032	62	166908	21.429
8) Bromomethane	(1)	2.331	94	64690	13.761
9) Chloroethane	(1)	2.427	64	64416	14.783
11) Trichlorofluoromethane	(1)	2.688	101	222634	21.384
15) Ethyl Ether	(1)	2.964	59	103642	27.460
18) Acrolein	(4)	3.096	56	249137	217.863
19) 1,1-Dichloroethene	(1)	3.234	96	107868	20.920
20) Freon 113	(1)	3.260	101	120599	19.977
21) Acetone	(1)	3.270	43	712615	260.819
22) 2-Propanol	(4)	3.417	45	108182	150.868
23) Methyl Iodide	(1)	3.411	142	199701	17.979
24) Carbon Disulfide	(1)	3.504	76	392377	18.217
29) Methylene Chloride	(1)	3.810	84	130070	18.521
30)*t-Butyl Alcohol-d10	(4)	3.845	65	220569	250.000
31) t-Butyl Alcohol	(4)	3.954	59	209363	202.255
32) Acrylonitrile	(1)	4.128	53	368938	102.933
33) trans-1,2-Dichloroethene	(1)	4.192	96	126461	19.873
34) Methyl Tertiary Butyl Ether	(1)	4.208	73	394962	19.096
35) n-Hexane	(1)	4.623	57	184424	18.564
42) 1,2-Dichloroethene (total)	(1)		96	258004	39.458
36) 1,1-Dichloroethane	(1)	4.829	63	234568M	19.992
40) di-Isopropyl Ether	(1)	4.958	45	473594	20.155
41) 2-Chloro-1,3-Butadiene	(1)	4.974	53	213628	20.345
43) Ethyl t-Butyl Ether	(1)	5.504	59	401705	19.899
44) cis-1,2-Dichloroethene	(1)	5.691	96	131543	19.584
45) 2-Butanone	(1)	5.704	43	911278	183.579
46) 2,2-Dichloropropane	(1)	5.707	77	175898	19.663
47) Propionitrile	(4)	5.784	54	219476	165.295
50) Methacrylonitrile	(1)	6.009	67	556779	148.768
52) Tetrahydrofuran	(4)	6.109	71	116413	117.427
53) Chloroform	(1)	6.154	83	213907	20.229
57) 1,1,1-Trichloroethane	(1)	6.421	97	210715	20.414

M = Compound was manually integrated.

* = Compound is an internal standard.

PTL03 0524

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct12a.b/lc12l01.d Instrument ID: HP09915.i
Injection date and time: 12-OCT-2009 19:01 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct12a.b/L8260W.m Sublist used: 8260W-FRV6
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 19:26 maz02012

Sample Name: LCSL33 Lab Sample ID: LCSL33

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
60) Cyclohexane	(1)	6.511	56	238125	19.526
61) 1,1-Dichloropropene	(1)	6.646	75	175546	19.769
62) Carbon Tetrachloride	(1)	6.649	117	159785	19.755
63) Isobutyl Alcohol	(4)	6.826	41	196524	513.861
67) Benzene	(1)	6.925	78	523001	20.039
68) 1,2-Dichloroethane	(1)	6.941	62	183243	20.060
71) t-Amyl Methyl Ether	(1)	7.109	73	362519	19.317
72) *Fluorobenzene	(1)	7.305	96	1188952	50.000
74) n-Heptane	(1)	7.327	43	195618	19.232
75) n-Butanol	(4)	7.726	56	290171	969.559
76) Trichloroethene	(1)	7.800	95	137426	21.520
79) 1,2-Dichloropropane	(1)	8.086	63	136785	19.378
80) Dibromomethane	(1)	8.237	93	82885	19.667
81) Methyl Methacrylate	(1)	8.266	69	110604	18.441
82) 1,4-Dioxane	(4)	8.269	88	43198	473.458
84) Bromodichloromethane	(1)	8.453	83	151000	19.582
85) 2-Nitropropane	(1)	8.742	41	40269	19.945
86) 2-Chloroethyl Vinyl Ether	(1)	8.861	63	99450	19.277
87) cis-1,3-Dichloropropene	(1)	9.038	75	204557	19.873
89) 4-Methyl-2-Pentanone	(1)	9.244	43	1060819	104.482
93) Toluene	(2)	9.456	92	318752	20.713
94) trans-1,3-Dichloropropene	(2)	9.707	75	191961	19.745
95) Ethyl Methacrylate	(2)	9.826	69	194436	19.834
96) 1,1,2-Trichloroethane	(2)	9.906	97	116861	20.400
97) Tetrachloroethene	(2)	10.067	166	141418	20.779
98) 1,3-Dichloropropane	(2)	10.083	76	210765	19.953
100) 2-Hexanone	(2)	10.176	43	902757	119.774
102) Dibromochloromethane	(2)	10.314	129	124699	19.451
103) 1,2-Dibromoethane	(2)	10.424	107	125586	19.526
104) *Chlorobenzene-d5	(2)	10.874	117	864923	50.000
105) Chlorobenzene	(2)	10.903	112	359978	20.591
107) 1,1,1,2-Tetrachloroethane	(2)	10.977	131	117757	19.777
108) Ethylbenzene	(2)	11.006	91	612439	20.576
109) m+p-Xylene	(2)	11.108	106	480651	41.266

* = Compound is an internal standard.

PTL03 0525

Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct12a.b/lc12l01.d Instrument ID: HP09915.i
Injection date and time: 12-OCT-2009 19:01 Analyst ID: MAZ02012

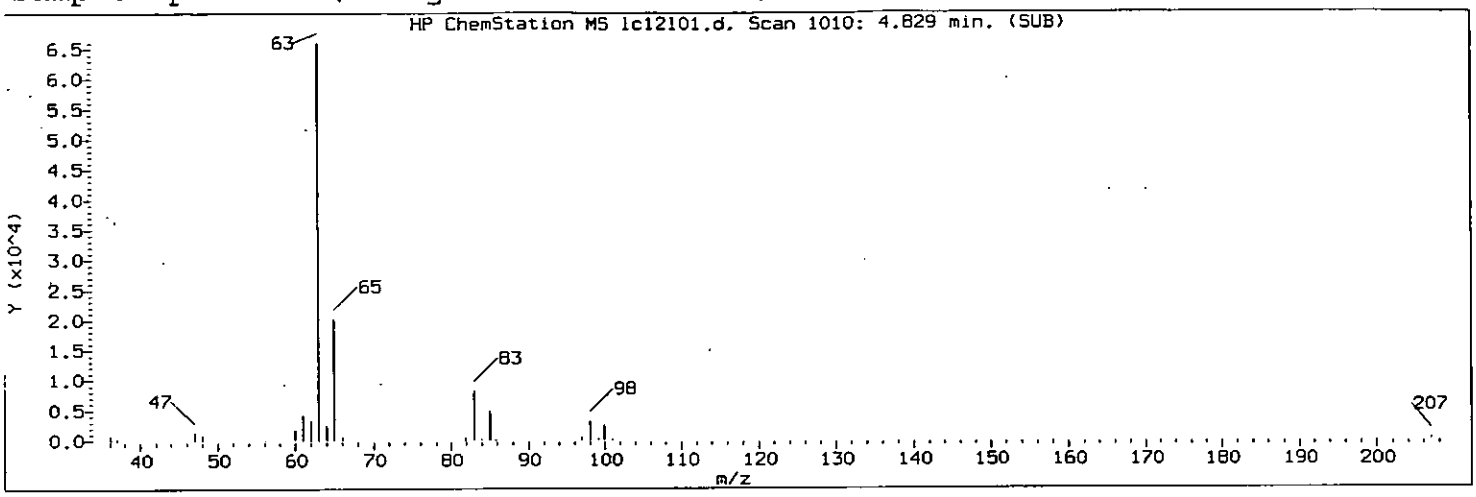
Method used: /chem/HP09915.i/09oct12a.b/L8260W.m Sublist used: 8260W-FRV6
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 19:26 maz02012

Sample Name: LCSL33 Lab Sample ID: LCSL33

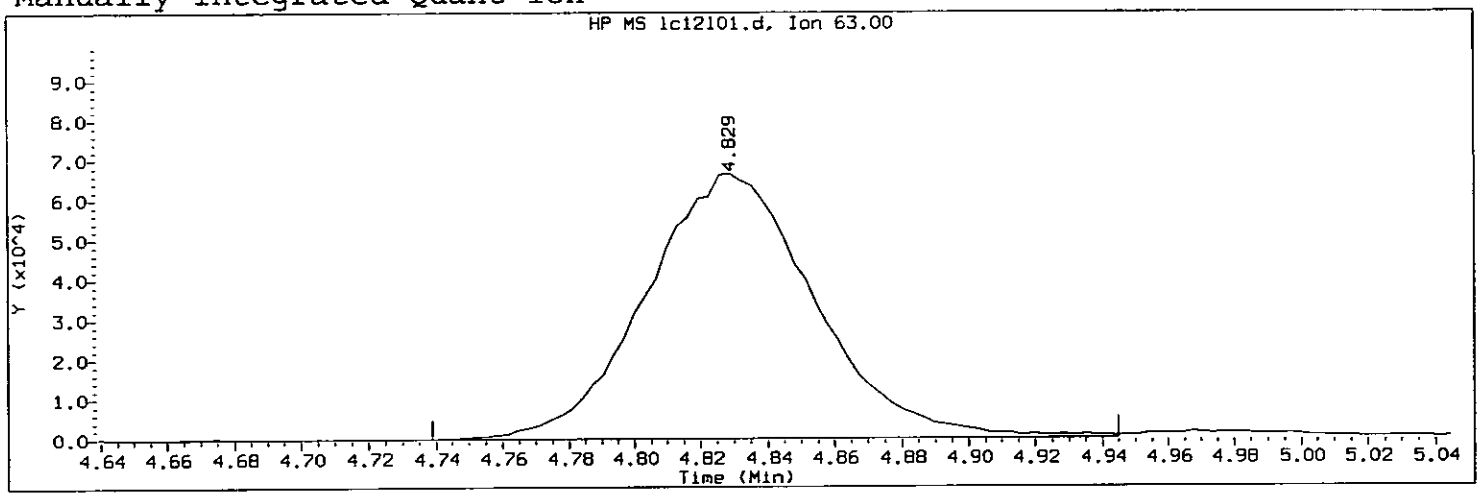
Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
110) Xylene (Total)	(2)		106	713167	62.554
111) o-Xylene	(2)	11.452	106	232516	21.289
112) Styrene	(2)	11.462	104	374031	20.887
113) Bromoform	(2)	11.613	173	91343	19.510
115) Isopropylbenzene	(2)	11.761	105	579389	20.351
117) Cyclohexanone	(4)	11.832	55	163747	496.262
120) 1,1,2,2-Tetrachloroethane	(3)	11.989	83	176680	18.823
122) Bromobenzene	(3)	12.005	156	157581	20.537
123) 1,2,3-Trichloropropane	(3)	12.022	110	55921	20.343
124) trans-1,4-Dichloro-2-Butene	(3)	12.031	53	327648	104.423
125) n-Propylbenzene	(3)	12.086	120	173539	20.450
126) 2-Chlorotoluene	(3)	12.160	126	148132	20.404
127) 1,3,5-Trimethylbenzene	(3)	12.218	120	251242	20.484
128) 4-Chlorotoluene	(3)	12.240	126	153655	20.339
130) tert-Butylbenzene	(3)	12.472	134	102580	18.515
132) 1,2,4-Trimethylbenzene	(3)	12.504	105	517692	20.313
134) sec-Butylbenzene	(3)	12.636	134	128677	20.105
135) 1,3-Dichlorobenzene	(3)	12.723	146	293997	20.672
136) p-Isopropyltoluene	(3)	12.735	134	148964	20.700
137) *1,4-Dichlorobenzene-d4	(3)	12.768	152	499934	50.000
138) 1,4-Dichlorobenzene	(3)	12.784	146	311422	20.680
140) Benzyl Chloride	(3)	12.877	91	356182	19.157
143) n-Butylbenzene	(3)	13.028	92	257644	19.762
144) 1,2-Dichlorobenzene	(3)	13.057	146	286479	20.562
146) 1,2-Dibromo-3-Chloropropane	(3)	13.591	75	37396	18.446
147) 1,2,4-Trichlorobenzene	(3)	14.153	180	208649	19.589
148) Hexachlorobutadiene	(3)	14.256	225	102906	17.876
149) Naphthalene	(3)	14.321	128	579240	18.016
150) 1,2,3-Trichlorobenzene	(3)	14.475	180	201561	19.021
54) $Dibromofluoromethane	(1)	6.379	113	288035	47.327
64) $1,2-Dichloroethane-d4	(1)	6.845	102	69383	47.210
91) $Toluene-d8	(2)	9.379	98	1190779	49.390
119) $4-Bromofluorobenzene	(2)	11.880	95	422257	49.371

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09915.i/09oct12a.b/lc12l01.d Instrument ID: HP09915.i
Injection date and time: 12-OCT-2009 19:01 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct12a.b/L8260W.m Sublist used: 8260W-FRV6
Calibration date and time: 12-OCT-2009 19:26
Date, time and analyst ID of latest file update: 12-Oct-2009 19:26 maz02012

Sample Name: LCSL33 Lab Sample ID: LCSL33

Compound Number : 36
Compound Name : 1,1-Dichloroethane
Scan Number : 1010
Retention Time (minutes): 4.829
Quant Ion : 63
Area (flag) : 234568 M
Concentration (ug/L) : 19.9923
Integration start scan : 981 Integration stop scan: 1045
Y at integration start : 0 Y at integration end: 0

Reason for manual integration (circle one): missed peak improper integration

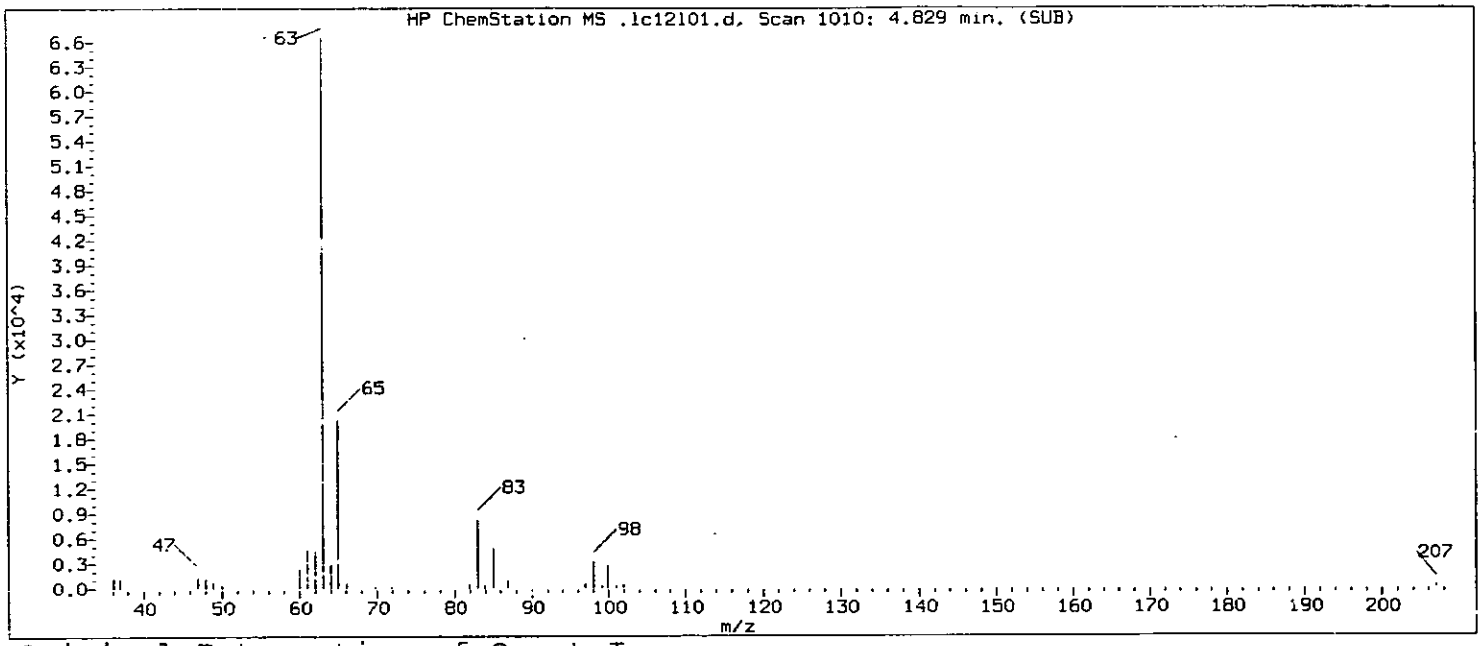
Analyst responsible for change: MS 10/12/09

PTL03 0527

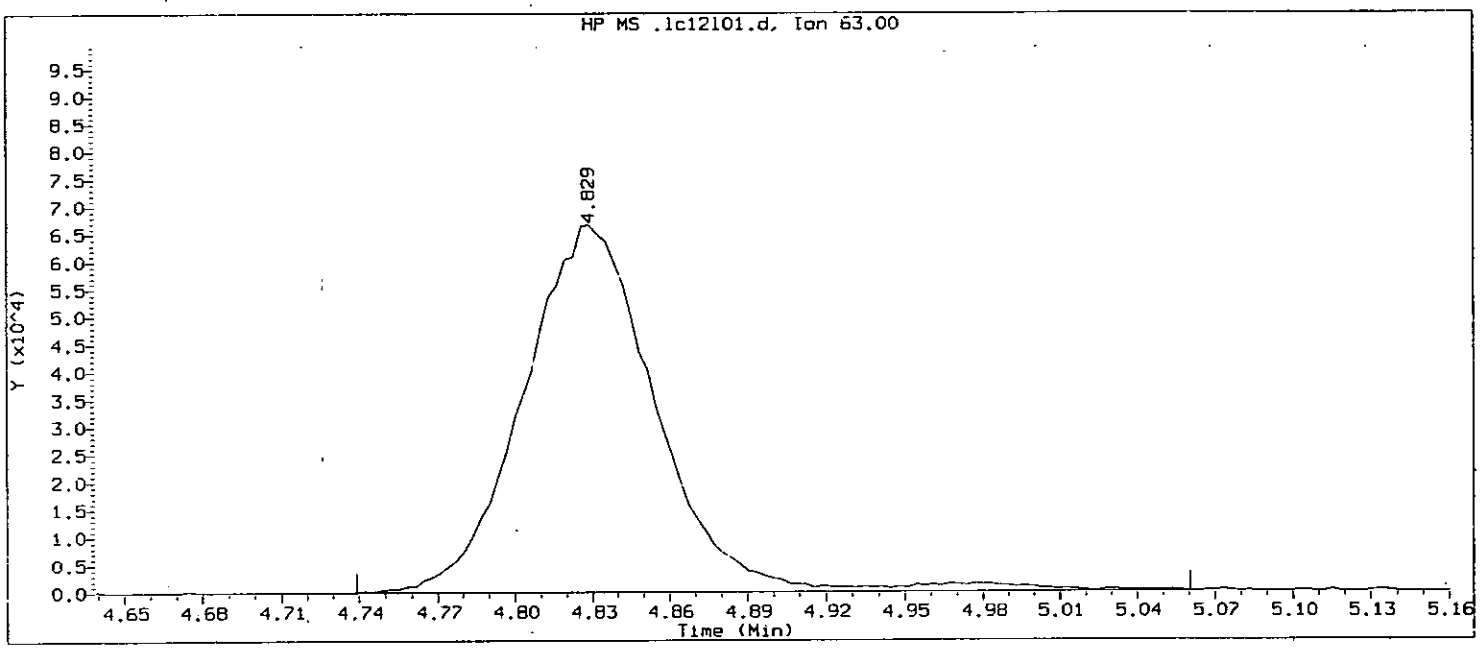
GC/MS audit/management approval: 10/13/09

Manual Integration Report for data file /chem/HP09915.i/09oct12a.b/lc12l01.d, generated on 10/12/2009 at 19:27

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem/HP09915.i/09oct12a.b/lc12l01.d Instrument ID: HP09915.i
Injection date and time: 12-OCT-2009 19:01 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct12a.b/L8260W.m Sublist used: 8260W-FRV6
Calibration date and time: 12-OCT-2009 19:23
Date, time and analyst ID of latest file update: 12-Oct-2009 19:23 maz02012

Sample Name: LCSL33 Lab Sample ID: LCSL33

Compound Number : 36
Compound Name : 1,1-Dichloroethane
Scan Number : 1010
Retention Time (minutes) : 4.829
Quant Ion : 63
Area : 239637
Concentration (ug/L) : 20.4244
Integration start scan : 981 Integration stop scan: 1081
Y at integration start : 0 Y at integration end: 0

PTL83 0528

Original Integration Report for data file /chem/HP09915.i/09oct12a.b/lc12l01.d, generated on 10/12/2009 at 19:27

LCS6L33

Lancaster Laboratories
Quantitation Report GC/MS Volatiles

LCS6L33

File: /chem/HP09915.i/09oct12a.b/lc12102.d
Sample: LCS6L33;LCS6L33;1;3;LCS
Injected At:12-OCT-2009 19:23
Calibration Time: 08-OCT-2009 17:10
Target Method: L8260W.m
Blank Reference: lc12b01.d
Sublist: V6QC

Sample Concentration Formula: On-Column Amount * (Vt/Vo)
Batch:L092851AA
Analyst:MAZ02012
Instrument ID:HP09915.i
Standard Reference: lc12c01.d
Prep Factor:1.00
Units: ug/L

Matrix: WATER
Level: Low
Sample Wt./Vol.: 5.0000 ml (Vo)
Volume Purged: 5.0 ml (Vt)
Bottle Code:

Internal Standards	RT(+/-RT)	Scan	QIon	Area(+/- %Area)	Conc(ext)	QC Flag
30) t-Butyl Alcohol-d10	3.845(-0.003)	704	65	225765(-9)	250.00	
72) Fluorobenzene	7.305(-0.003)	1780	96	1187593(-4)	50.00	
104) Chlorobenzene-d5	10.874(0.000)	2890	117	865787(-5)	50.00	
137) 1,4-Dichlorobenzene-d4	12.767(0.000)	3479	152	482840(-8)	50.00	

= RETENTION TIME OUT OF RANGE * = INTERNAL STANDARD OUT OF RANGE NC = NOT ABLE TO CALCULATE

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	%Rec.	QC flags	QC Limits
54) Dibromofluoromethane	(1)	6.375(0.000)	113	289149	47.564	95%		80 - 116
64) 1,2-Dichloroethane-d4	(1)	6.838(0.000)	102	69010	47.010	94%		77 - 113
91) Toluene-d8	(2)	9.375(0.000)	98	1179609	48.878	98%		80 - 113
119) 4-Bromofluorobenzene	(2)	11.883(0.000)	95	416881	48.694	97%		78 - 113

= RELATIVE RETENTION TIME OUT OF RANGE * = PERCENT REC.OUT OF RANGE D = DILUTED OUT NC = NOT ABLE TO CALCULATE

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit	LOQ
27) Allyl Chloride	(1)	3.655(-0.001)	41	248035	22.262	22.26			1.00	5.00
28) Methyl Acetate	(1)	3.675(-0.002)	43	153409	20.565	20.57			1.00	5.00
51) Bromochloromethane	(1)	6.025(0.000)	128	67771	20.780	20.78			1.00	5.00
77) Methylcyclohexane	(1)	8.067(0.000)	83	221917	21.066	21.07			1.00	5.00
131) Pentachloroethane	(3)	12.488(0.000)	167	14338	3.153	3.15		J	1.00	5.00
139) 1,2,3-Trimethylbenzene	(3)	12.819(0.000)	120	223892	20.379	20.38			1.00	5.00
141) 1,3-Diethylbenzene	(3)	12.948(0.000)	119	316549	20.822	20.82			1.00	5.00
142) 1,4-Diethylbenzene	(3)	13.009(0.000)	119	311112	20.717	20.72			1.00	5.00
145) 1,2-Diethylbenzene	(3)	13.099(0.000)	119	261111	20.890	20.89			1.00	5.00
152) 2-Methylnaphthalene	(3)	15.054(0.000)	142	218390	12.424	12.42			2.00	5.00

E = CONC. OUT OF CAL. RANGE # = RELATIVE RETENTION TIME OUT OF RANGE

Comments: _____

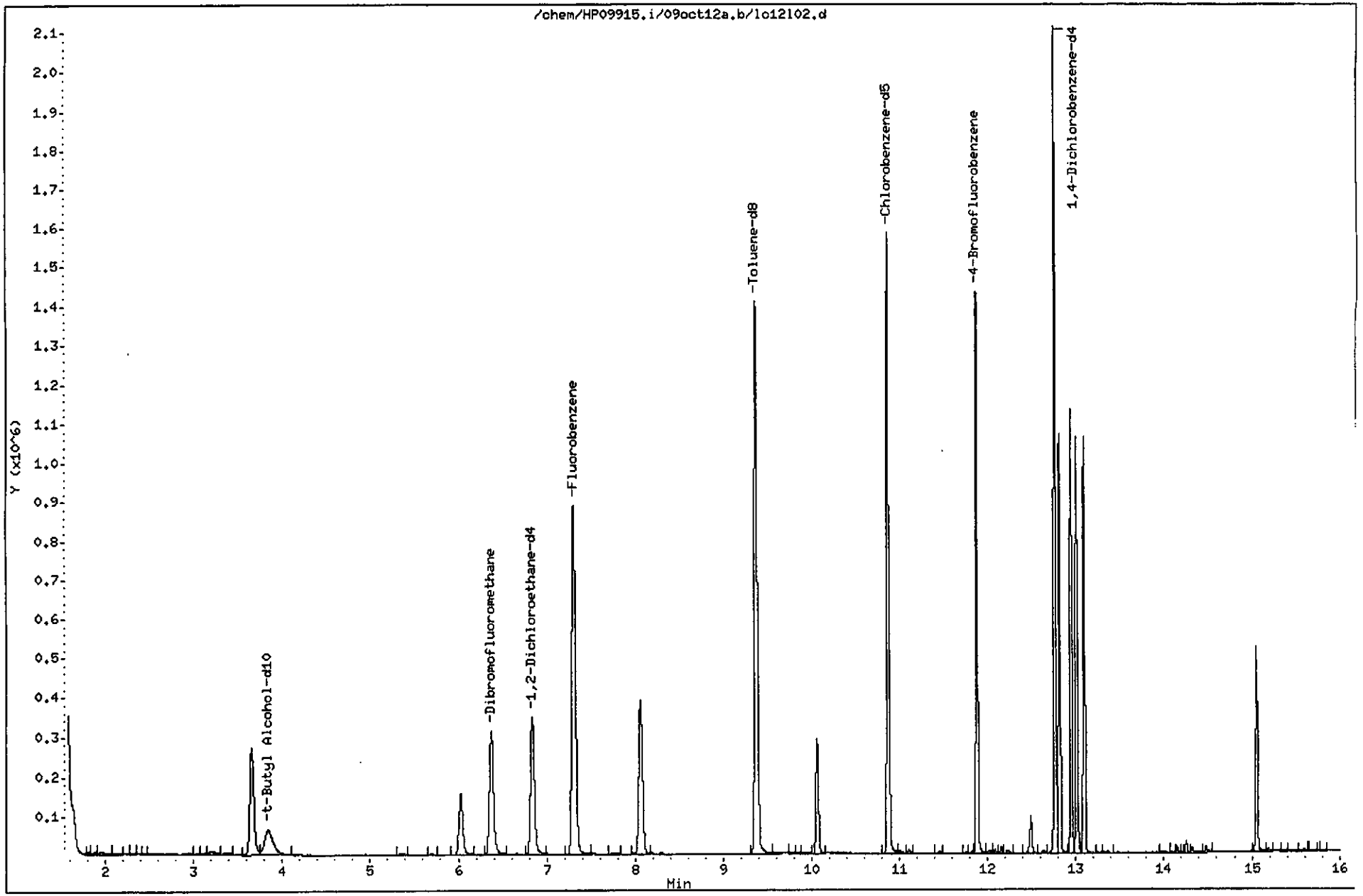
Analyst: MA Date: 10/12/09

Auditor: [signature] Date: 10/13/09

PTL03 0529

Data File: /chem/HP09915.i/09oct12a.b/lc12102.d
Date : 12-OCT-2009 19:23
Client ID: LCS6L33
Sample Info: LCS6L33;LCS6L33;1;3;LCS
Purge Volume: 5.0
Column phase: DB-624

Instrument: HP09915.i
Operator: HAZ02012
Column diameter: 0.25



Quant Report

Target Revision 3.5

Data File: /chem/HP09915.i/09oct12a.b/lc12l02.d Instrument ID: HP09915.i
Injection date and time: 12-OCT-2009 19:23 Analyst ID: MAZ02012

Method used: /chem/HP09915.i/09oct12a.b/L8260W.m Sublist used: V6QC
Calibration date and time: 08-OCT-2009 17:10
Date, time and analyst ID of latest file update: 12-Oct-2009 19:41 Automation

Sample Name: LCS6L33 Lab Sample ID: LCS6L33

Compounds	I.S. Ref.	RT	QIon	Area	Conc. (on column)
27) Allyl Chloride	(1)	3.655	41	248035	22.262
28) Methyl Acetate	(1)	3.675	43	153409	20.565
30)*t-Butyl Alcohol-d10	(4)	3.845	65	225765	250.000
51) Bromochloromethane	(1)	6.025	128	67771	20.780
72)*Fluorobenzene	(1)	7.305	96	1187593	50.000
77) Methylcyclohexane	(1)	8.067	83	221917	21.066
104)*Chlorobenzene-d5	(2)	10.874	117	865787	50.000
131) Pentachloroethane	(3)	12.488	167	14338	3.153
137)*1,4-Dichlorobenzene-d4	(3)	12.767	152	482840	50.000
139) 1,2,3-Trimethylbenzene	(3)	12.819	120	223892	20.379
141) 1,3-Diethylbenzene	(3)	12.948	119	316549	20.822
142) 1,4-Diethylbenzene	(3)	13.009	119	311112	20.717
145) 1,2-Diethylbenzene	(3)	13.099	119	261111	20.890
152) 2-Methylnaphthalene	(3)	15.054	142	218390	12.424
54)$Dibromofluoromethane	(1)	6.375	113	289149	47.564
64)$1,2-Dichloroethane-d4	(1)	6.838	102	69010	47.010
91)$Toluene-d8	(2)	9.375	98	1179609	48.878
119)$4-Bromofluorobenzene	(2)	11.883	95	416881	48.694

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

GC/MS Volatiles pH Log

Batch #: L092802AA

LLI#	pH	Date Checked	Initials/ Employee #	Comments
5796214	~~12~~	10/8/2009	maz/2012	
5796206	~~12~~	10/8/2009	maz/2012	
~~5797139~~	~~12~~	~~10/7/2009~~	~~npr 2223~~	NA SMG 10/22/09 ③
~~5797140~~	~~12~~	~~10/7/2009~~	~~npr 2223~~	↓
5796209	~~12~~	10/8/2009	maz/2012	
5796210	~~12~~	10/8/2009	maz/2012	
5796211	~~12~~	10/8/2009	maz/2012	
5796212	~~12~~	10/8/2009	maz/2012	
5796213	~~12~~	10/8/2009	maz/2012	
5796207	~~12~~	10/8/2009	maz/2012	

PTL03 2532

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2425 New Holland Pike • Lancaster, PA 17601

GC/MS Volatiles pH Log

Batch: L092822AA

LLI#	pH	Date Checked	Initials/ Employee #	Comments
5796196	<2	10/10/2009	LCP 0895	38A
5798475	<2	10/10/2009	LCP 0895	38A
5798476	<2	10/10/2009	LCP 0895	MS 38A
5798477	<2	10/10/2009	LCP 0895	MSD 38A
5798479	<2	10/10/2009	LCP 0895	38A
5798481	<2	10/10/2009	LCP 0895	38A
5798483	<2	10/10/2009	LCP 0895	38A
5798484	<2	10/10/2009	LCP 0895	38A
5796197	<2	10/10/2009	LCP 0895	38A
5796198	<2	10/10/2009	LCP 0895	38A
5796199	<2	10/10/2009	LCP 0895	38A
5796200	<2	10/10/2009	LCP 0895	38A, pH
5796201	<2	10/10/2009	LCP 0895	38A
5796202	<2	10/10/2009	LCP 0895	38A
5796203	<2	10/10/2009	LCP 0895	38A
5796204	<2	10/10/2009	LCP 0895	38A
5796205	<2	10/10/2009	LCP 0895	38A
5796208	<2	10/10/2009	LCP 0895	38A
5798480	<2	10/10/2009	LCP 0895	38A
5798480	<2	10/9/2009	KDP 2245	38B DL, pH
5798485	<2	10/10/2009	LCP 0895	38A

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GC/MS Volatiles pH Log

Batch #: L092822AA

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LLI#	pH	Date Checked	Initials/ Employee #	Comments
5798474	<2	10/10/2009	KDP2245	38A
5798475	<2	9/24/2009	KDP2245	38B

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GC/MS Volatiles pH Log

Batch: L092851AA

LLI#	pH	Date Checked	Initials/ Employee #	Comments
5796200	<2	10/12/2009	MAZ/2012	DL
5796199	<2	10/12/2009	MAZ/2012	DL
5798480	<2	10/13/09	CBE/PLH	
5794959	<2	10/13/09	CBE/PLH	
5794960	<2	10/13/09	CBE/PLH	MS
5794961	<2	10/13/09	CBE/PLH	MSD
5794962	<2	10/13/09	CBE/PLH	
5794963	<2	10/13/09	CBE/PLH	
5794964	<2	10/13/09	CBE/PLH	
5794965	<2	10/13/09	CBE/PLH	
5794966	<2	10/13/09	CBE/PLH	
5794967	<2	10/13/09	CBE/PLH	
~~5794969~~	~~<2~~	~~10/13/09~~	~~CBE/PLH~~	not run on this batch CBE/PLH 10/13/09
5798769	<2	10/13/09	CBE/PLH	
5798770	<2	10/13/09	CBE/PLH	
5798771	<2	10/13/09	CBE/PLH	
5798772	<2	10/13/09	CBE/PLH	
5798773	<2	10/13/09	CBE/PLH	
5798774	<2	10/13/09	CBE/PLH	
5798775	<2	10/13/09	CBE/PLH	
5798776	<2	10/13/09	CBE/PLH	
5798777	<2	10/13/09	CBE/PLH	
5798778	<2	10/13/09	CBE/PLH	

Lancaster Laboratories
Runlog for Hewelet Packard GC/MS System HP09915 **HP #09**

** Shift #1 Analyst:_____** Shift #2 Analyst:____KDP____** Shift #3 Analyst:___SAS_____*

Comment Code:

R =	Reinjection necessary	X =	Sample sent to be reextracted
S =	Surrogate problem	I =	Internal Standard problem
NU =	Not used	F =	Further dilution required
MR =	Meets requirements	IUO =	Internal use only
Cz =	Confirms z, (z = S, I or X)	T =	Injected outside valid tune period

Other problems or comments are as follows:

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Data Directory Path is - D:\DATA\09SEP29C\

FILE	SAMPLE	LLI#	DATE	TIME	BATCH	D.F.	NOTES
LS29T03.D	2UL BFBMAY27-09	50NG BFB	29 Sep 09	20:45			NU
LS29T04.D	2UL BFBMAY27-09	50NG BFB	29 Sep 09	21:06			NU
LS29T05.D	2UL BFBMAY27-09	50NG BFB	29 Sep 09	21:18			MR
LS29I01.D	VSTD300	VSTD300	29 Sep 09	21:39			MR
LS29I02.D	VSTD100	VSTD100	29 Sep 09	22:01			MR
LS29I03.D	VSTD050	VSTD050	29 Sep 09	22:23			MR
LS29I04.D	VSTD020	VSTD020	29 Sep 09	22:45			MR
LS29I05.D	VSTD010	VSTD010	29 Sep 09	23:07			MR
LS29I06.D	VSTD004	VSTD004	29 Sep 09	23:29			MR
LS29M01.D	1PPB MDL	1 PPB MDL	29 Sep 09	23:50			MR
LS29X01.D	CLBLK	CLBLK	30 Sep 09	01:48			NU
LS29CV1.D	LICV	LICV	30 Sep 09	02:09	WRONG FREONS		NU
LS29CV2.D	LICV	LICV	30 Sep 09	04:07			MR

Lancaster Laboratories
Runlog for Hewelet Packard GC/MS System HP09915 **HP #09**

** Shift #1 Analyst:_____** Shift #2 Analyst:___NPR/MAZ_** Shift #3 Analyst:_____*

Comment Code:

R =	Reinjection necessary	X =	Sample sent to be reextracted
S =	Surrogate problem	I =	Internal Standard problem
NU =	Not used	F =	Further dilution required
MR =	Meets requirements	IUO =	Internal use only
Cz =	Confirms z, (z = S, I or X)	T =	Injected outside valid tune period

Other problems or comments are as follows:

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Data Directory Path is - D:\DATA\09OCT07B\

FILE	SAMPLE	LLI#	DATE	TIME	BATCH	D.F.	NOTES
LC07T07.D	2UL BFBMAY27-09	50NG BFB	07 Oct 09	16:47			MR
LC07C02.D	VSTD050	VSTD050	07 Oct 09	17:08			MR
LC07B03.D	VBLKL28	VBLKL28	07 Oct 09	17:30	L092802AA		MR
LC07B04.D	VBLKL29	VBLKL29	07 Oct 09	18:01	L092803AA		NU
LC07L02.D	LCSL28	LCSL28	07 Oct 09	18:23	L092802AA		MR
LC07C03.D	VSTD050	VSTD050	07 Oct 09	18:45			NU
LC07L03.D	LCSL29	LCSL29	07 Oct 09	19:07	L092803AA		MR
LC07L04.D	LCDL29	LCDL29	07 Oct 09	19:29	L092803AA		MR
LC07L05.D	LCS1L29	LCS1L29	07 Oct 09	19:51	L092803AA		MR
LC07L06.D	LCD1L29	LCD1L29	07 Oct 09	20:13	L092803AA		MR
LC07S31.D	PATB1	5796214	07 Oct 09	20:50	L092802AA		MR
LC07S32.D	PAEB2	5796206	07 Oct 09	21:12	L092802AA		MR
LC07B05.D	VBLKL29	VBLKL29	07 Oct 09	21:34	L092803AA		MR
LC07S33.D	WRMTB	5793503	07 Oct 09	21:56	L092803AA		MR
LC07S34.D	VEGTB	5795323	07 Oct 09	22:18	L092803AA		MR
LC07S35.D	VEGRB	5795324	07 Oct 09	22:40	L092803AA		MR
LC07S37.D	20602DL	5797139	07 Oct 09	23:01	L092802AA	10	~~MR~~ NU
LC07S38.D	20902DL	5797140	07 Oct 09	23:23	L092802AA	10	~~MR~~ NU
LC07S39.D	PA19D	5796209	07 Oct 09	23:45	L092802AA		MR
LC07S40.D	PA19DMS	5796210	08 Oct 09	00:07	L092802AA		MR
LC07S41.D	PA19DMSD	5796211	08 Oct 09	00:29	L092802AA		MR
LC07S42.D	PA20S	5796212	08 Oct 09	00:51	L092802AA		MR
LC07S43.D	PA20D	5796213	08 Oct 09	01:12	L092802AA		MR
LC07S44.D	PAFD2	5796207	08 Oct 09	01:34	L092802AA		MR
LC07S45.D	CAV32	5793156	08 Oct 09	01:56	L092802AA		MR
LC07S46.D	J56S-	5794882	08 Oct 09	02:18	L092802AA		MR
LC07S47.D	QBE14	5794727	08 Oct 09	02:40	L092802AA		NU
LC07S48.D	EBB08	5794771	08 Oct 09	03:01	L092802AA	5	F
LC07S49.D	EBB08DL	5794771	08 Oct 09	03:23	L092802AA	50	MR

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Runlog for Hewelet Packard GC/MS System HP09915 **HP #09**

** Shift #1 Analyst:_____** Shift #2 Analyst:____MAZ____** Shift #3 Analyst:_____*

Comment Code:

R =	Reinjection necessary	X =	Sample sent to be reextracted
S =	Surrogate problem	I =	Internal Standard problem
NU =	Not used	F =	Further dilution required
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Cz =	Confirms z, (z = S, I or X)	T =	Injected outside valid tune period

Other problems or comments are as follows:

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Data Directory Path is - D:\DATA\09OCT08I\

FILE	SAMPLE	LLI#	DATE	TIME	BATCH	D.F.	NOTES
LC08X01.D	BLK	BLK	08 Oct 09	15:41			NU
LC08X02.D	BLK	BLK	08 Oct 09	16:02			NU
LC08T01.D	2UL BFBMAY27-09	50NG BFB	08 Oct 09	16:42			MR
LC08I01.D	VSTD300	VSTD300	08 Oct 09	17:10			MR
LC08I02.D	VSTD100	VSTD100	08 Oct 09	17:31			MR
LC08I03.D	VSTD050	VSTD050	08 Oct 09	17:53			MR
LC08I04.D	VSTD020	VSTD020	08 Oct 09	18:15			MR
LC08I05.D	VSTD010	VSTD010	08 Oct 09	18:37			MR
LC08I06.D	VSTD004	VSTD004	08 Oct 09	18:59			MR
LC08M01.D	1PPB MDL	1 PPB MDL	08 Oct 09	19:20			MR
LC08V01.D	LCSL01	LCSL01	08 Oct 09	19:42			MR

Lancaster Laboratories
Runlog for Hewelet Packard GC/MS System HP09915 **HP #09**

** Shift #1 Analyst:_____** Shift #2 Analyst:____KDP___** Shift #3 Analyst:_____*

Comment Code: R = Reinjection necessary X = Sample sent to be reextracted

S = Surrogate problem I = Internal Standard problem

NU = Not used F = Further dilution required

MR = Meets requirements IUO = Internal use only

Cz = Confirms z, (z = S, I or X) T = Injected outside valid tune period

Other problems or comments are as follows:

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Data Directory Path is - D:\DATA\09OCT09B\

FILE	SAMPLE	LLI#	DATE	TIME	BATCH	D.F.	NOTES
LC09T02.D	BFBMAY27-09	50NG BFB	09 Oct 09	17:50			MR
LC09C05.D	VSTD050	VSTD050	09 Oct 09	18:11			MR
LC09B04.D	VBLKL31	VBLKL31	09 Oct 09	18:33	L092822AA		NU
LC09B05.D	VBLKL31	VBLKL31	09 Oct 09	18:55	L092822AA		MR
LC09L05.D	LCSL31	LCSL31	09 Oct 09	19:17	L092822AA		MR
LC09S51.D	PATEB	5796196	09 Oct 09	19:56	L092822AA		R
LC09S52.D	MW20-	5798475	09 Oct 09	20:18	L092822AA		MR
LC09S53.D	MW20-MS	5798476	09 Oct 09	20:40	L092822AA		MR
LC09S54.D	MW20-MSD	5798477	09 Oct 09	21:02	L092822AA		MR
LC09S75.D	PATEB	5796196	09 Oct 09	21:24	L092822AA		MR
LC09S55.D	DUP10	5798479	09 Oct 09	21:45	L092822AA		MR
LC09S56.D	MW27-	5798481	09 Oct 09	22:07	L092822AA		MR
LC09S57.D	OW03-	5798483	09 Oct 09	22:29	L092822AA		MR
LC09S58.D	MW33-	5798484	09 Oct 09	22:51	L092822AA		MR
LC09S59.D	PATP7	5796197	09 Oct 09	23:13	L092822AA		MR
LC09S60.D	PAP7A	5796198	09 Oct 09	23:35	L092822AA		MR
LC09S61.D	PA10A	5796199	09 Oct 09	23:56	L092822AA		MR
LC09S62.D	PA15D	5796200	10 Oct 09	00:18	L092822AA		NU
LC09S63.D	PATD1	5796201	10 Oct 09	00:40	L092822AA		MR
LC09S64.D	PA16S	5796202	10 Oct 09	01:02	L092822AA		MR
LC09S65.D	PA17D	5796203	10 Oct 09	01:23	L092822AA		MR
LC09S66.D	PA18S	5796204	10 Oct 09	01:45	L092822AA		MR
LC09S67.D	PA18D	5796205	10 Oct 09	02:07	L092822AA		MR
LC09S68.D	PA19S	5796208	10 Oct 09	02:29	L092822AA		MR
LC09S69.D	MW26-	5798480	10 Oct 09	02:51	L092822AA		F
LC09S70.D	MW26-DL	5798480	10 Oct 09	03:13	L092822AA	10	NU
LC09S71.D	MW31-	5798485	10 Oct 09	03:35	L092822AA		F
LC09S72.D	MW31-DL	5798485	10 Oct 09	03:56	L092822AA	10	MR
LC09S73.D	OW01-	5798474	10 Oct 09	04:18	L092822AA	2	F
LC09S74.D	OW01-DL	5798474	10 Oct 09	04:40	L092822AA	20	MR

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Lancaster Laboratories
Runlog for Hewelet Packard GC/MS System HP09915 **HP #09**

** Shift #1 Analyst:_____CBE_____** Shift #2 Analyst:____MAZ_____** Shift #3 Analyst:
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Comment Code: R = Reinjection necessary X = Sample sent to be reextracted

S = Surrogate problem I = Internal Standard problem

NU = Not used F = Further dilution required

MR = Meets requirements IUO = Internal use only

Cz = Confirms z, (z = S, I or X) T = Injected outside valid tune period

Other problems or comments are as follows:

*_____*LINE MANUALLY EDITED_____*

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Data Directory Path is - D:\DATA\09OCT12A\

FILE	SAMPLE	LLI#	DATE	TIME	BATCH	D.F.	NOTES
LC12T01.D	BFBMAY27-09	50NG BFB	12 Oct 09	17:19			MR
LC12C01.D	VSTD050	VSTD050	12 Oct 09	17:56			MR
LC12C02.D	VSTD050	VSTD050	12 Oct 09	18:17			MR
LC12B01.D	VBLKL33	VBLKL33	12 Oct 09	18:39	L092841AA		MR
LC12L01.D	LCSL33	LCSL33	12 Oct 09	19:01	L092851AA		MR
LC12L02.D	LCS6L33	LCS6L33	12 Oct 09	19:23	L092851AA		MR
LC12S01.D	PA15DDL	5796200	12 Oct 09	20:01	L092851AA		MR
LC12S02.D	PA10ADL	5796199	12 Oct 09	20:22	L092851AA	10	MR*
LC12S03.D	MW26-dv	5798480	12 Oct 09	20:44	L092851AA	10	MR*
LC12S04.D	R1Z15	5794959	12 Oct 09	21:06	L092851AA		MR
LC12S05.D	R1Z15MS	5794960	12 Oct 09	21:27	L092851AA		MR
LC12S06.D	R1Z15MSD	5794961	12 Oct 09	21:49	L092851AA		MR
LC12S07.D	R1Z16	5794962	12 Oct 09	22:11	L092851AA		MR
LC12S08.D	MW-4I	5794963	12 Oct 09	22:33	L092851AA		MR
LC12S09.D	--13D	5794964	12 Oct 09	22:55	L092851AA		MR
LC12S10.D	---9I	5794965	12 Oct 09	23:16	L092851AA		MR
LC12S11.D	---5S	5794966	12 Oct 09	23:38	L092851AA		MR
LC12S12.D	RS--D	5794967	13 Oct 09	00:00	L092851AA		MR
LC12S13.D	17U01	5798769	13 Oct 09	00:21	L092851AA		MR
LC12S14.D	14U01	5798770	13 Oct 09	00:43	L092851AA		MR
LC12S15.D	JC-TB	5798771	13 Oct 09	01:05	L092851AA		MR
LC12S16.D	14U02	5798772	13 Oct 09	01:26	L092851AA		MR
LC12S17.D	14B01	5798773	13 Oct 09	01:48	L092851AA		MR
LC12S18.D	DUPE3	5798774	13 Oct 09	02:10	L092851AA		MR
LC12S19.D	14B02	5798775	13 Oct 09	02:32	L092851AA		MR
LC12S20.D	15U01	5798776	13 Oct 09	02:53	L092851AA		MR
LC12S21.D	15U02	5798777	13 Oct 09	03:15	L092851AA		MR
LC12S22.D	12B01	5798778	13 Oct 09	03:37	L092851AA		MR

PTL#3 8540